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LAMBERT HOISTING ENGINES
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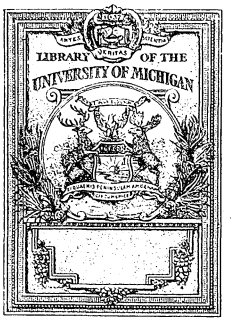
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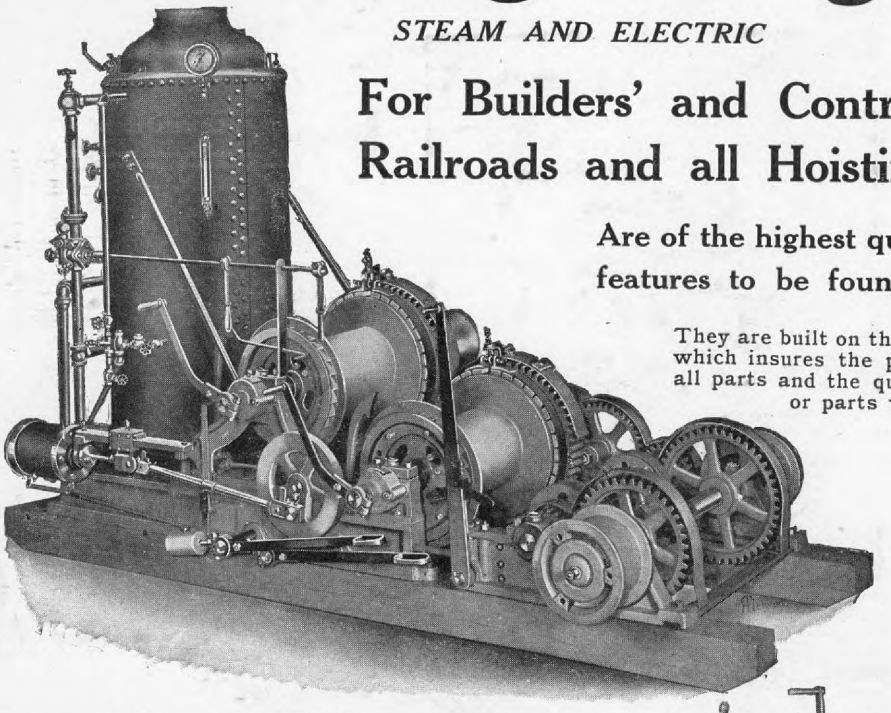
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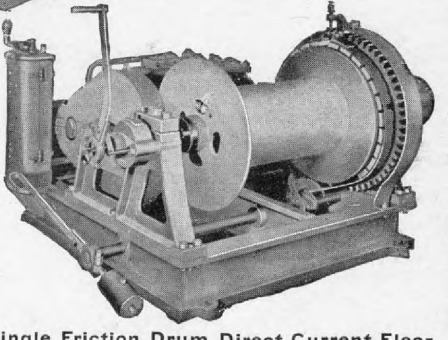
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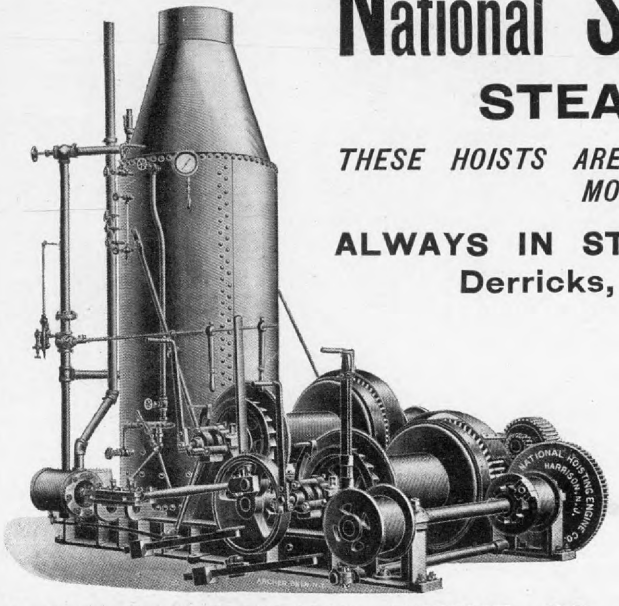
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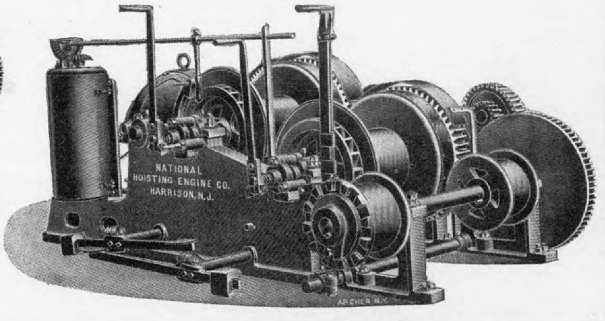
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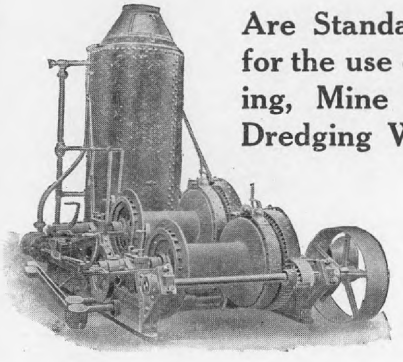
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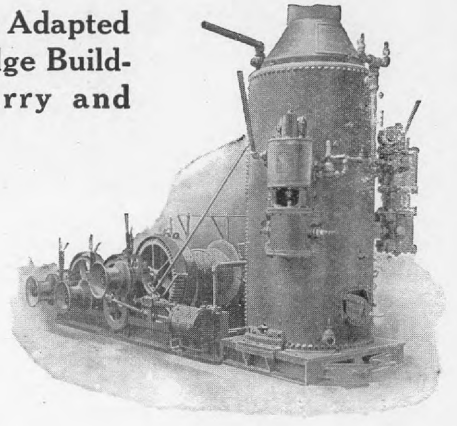
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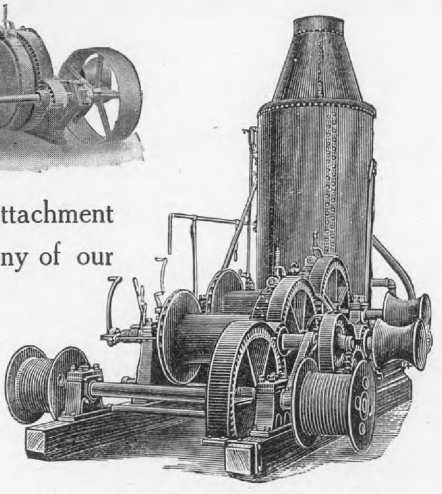
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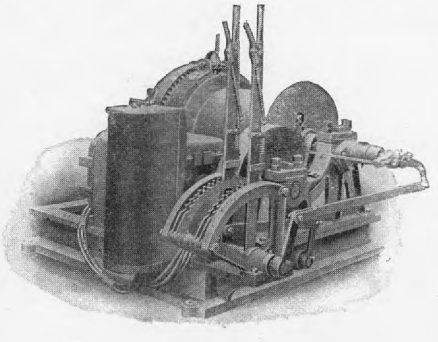


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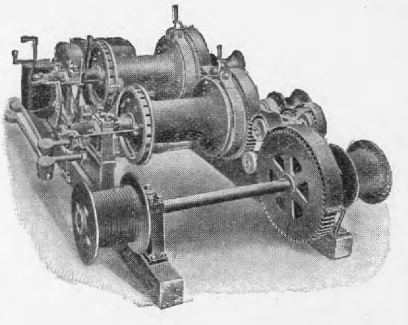


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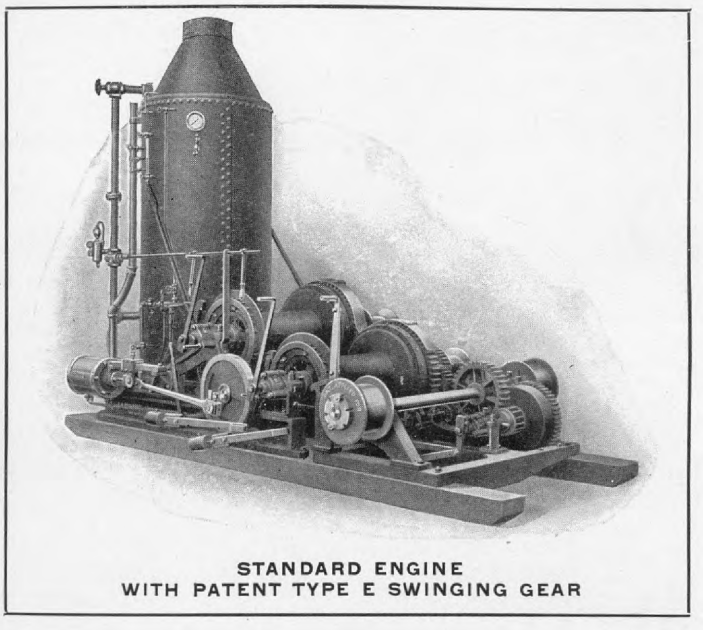
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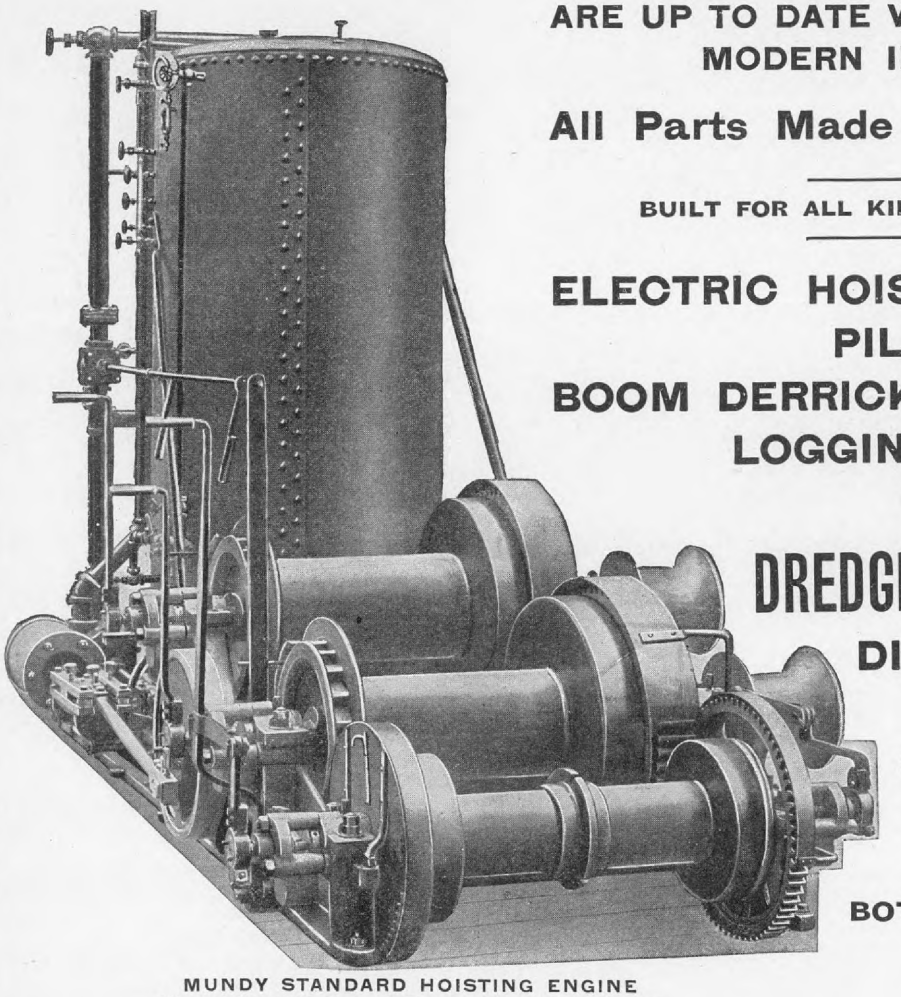
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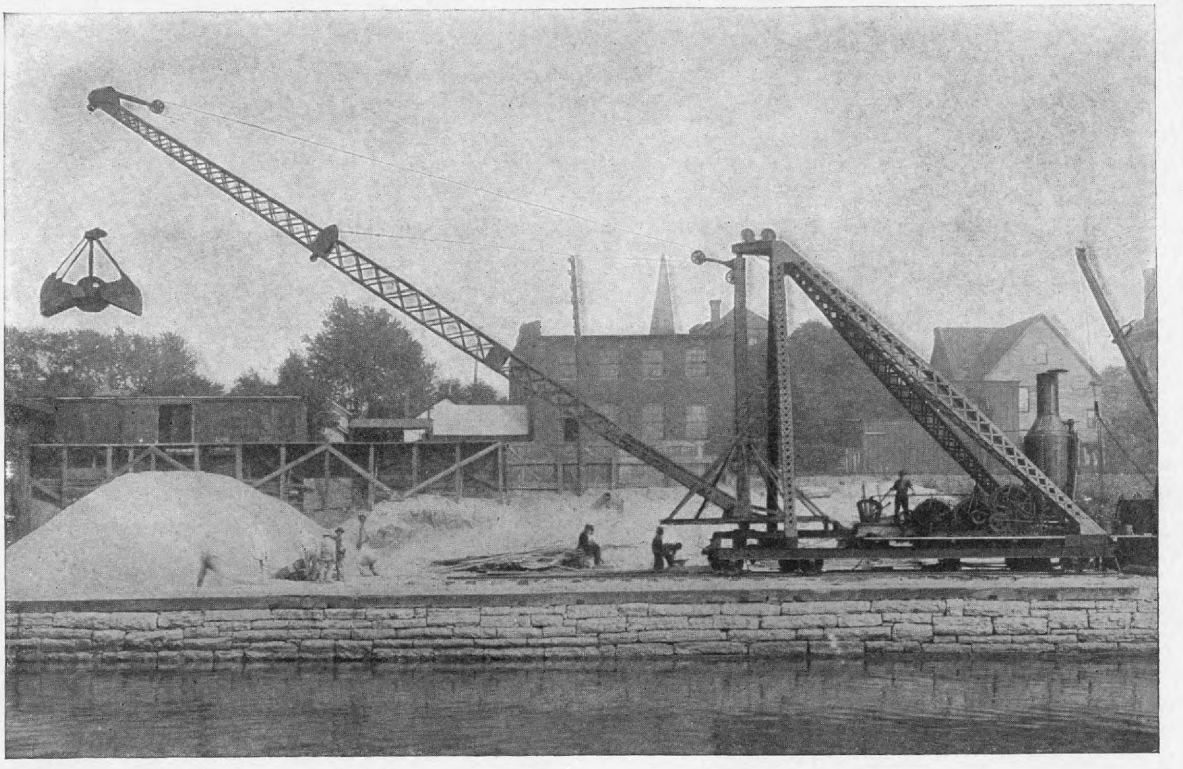
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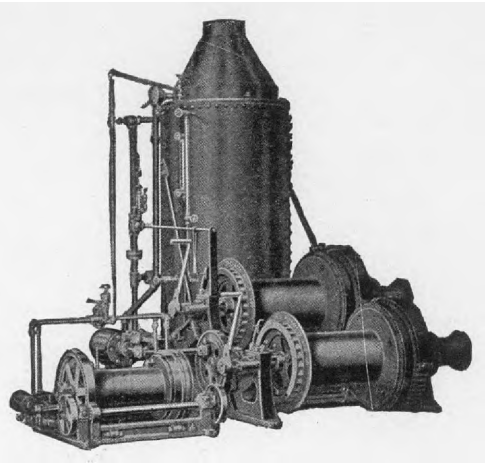
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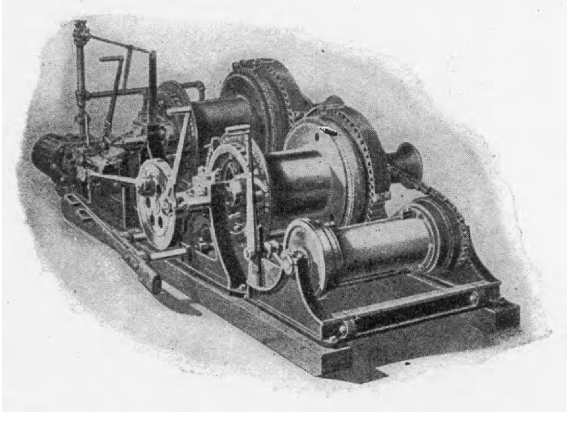
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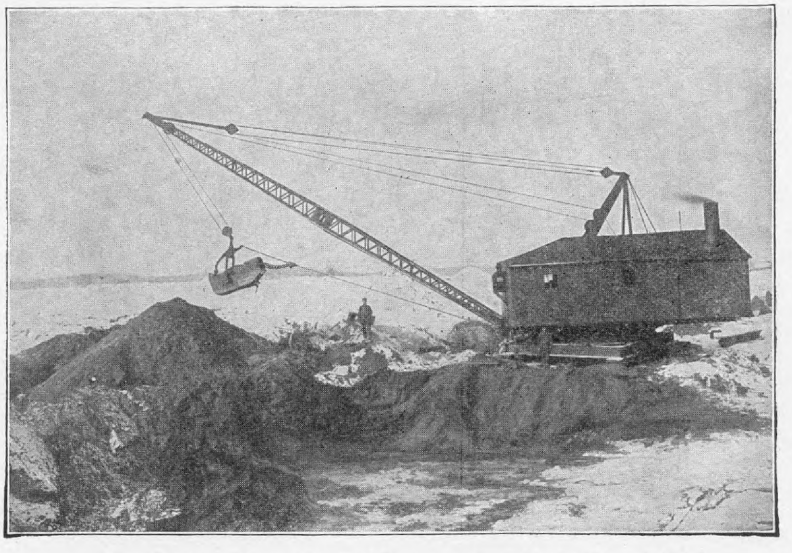


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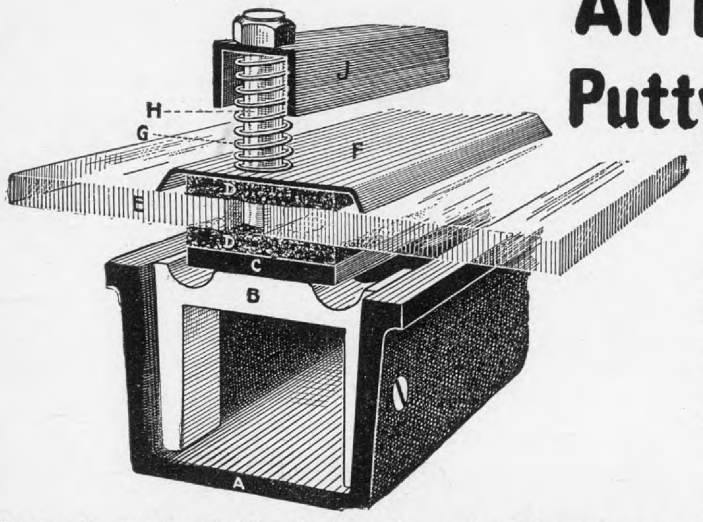
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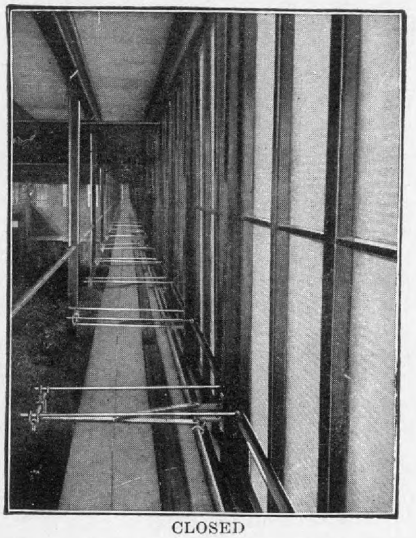
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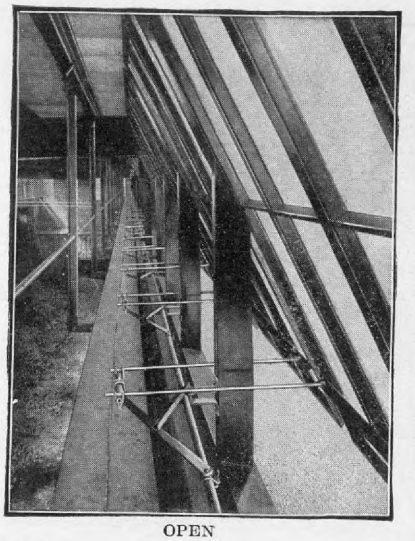
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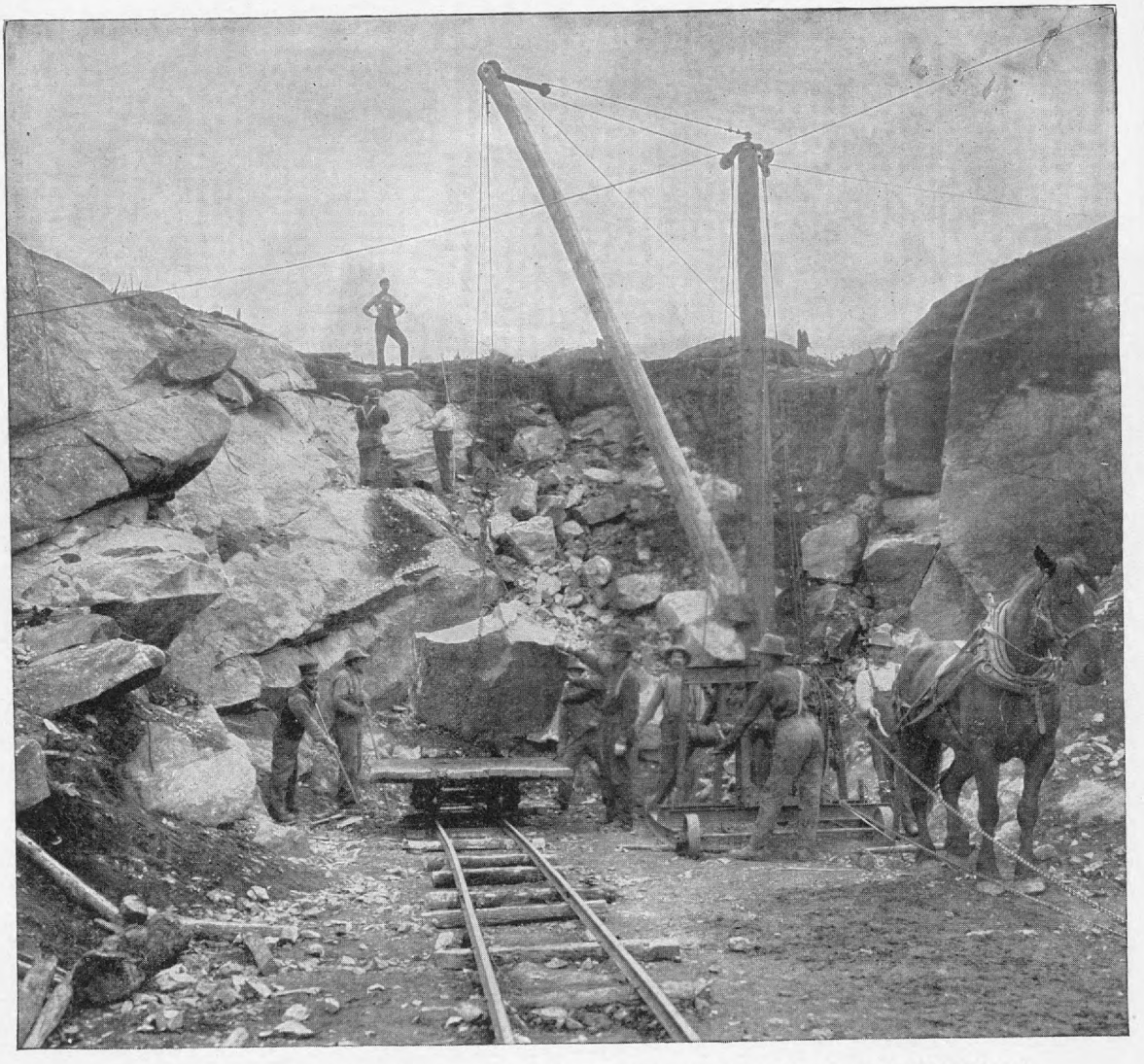
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IF YOU DISCOVER ANY NUMERICAL ERRORS IN THIS INDEX, WE WOULD ESTEEM IT A FAVOR TO BE NOTIFIED OF SAME

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NOTE—The numerous references which follow many of the headings are inserted for the purpose of guiding those who consult this book to the various branches of business connected with such headings and a little study of them will often result in finding names that at first glance appear to be omitted.

Many of the names listed under the classifications to which this Index refers are followed by detail matter, titles of identification, trade names, etc. This information is invaluable to buyers, and it should be closely observed, as it is a special feature of the work.

We earnestly hope that all new firms connected with the Manufacturing and Construction Industries will send us their business cards and thus aid us in maintaining the high standard of excellence to which the work has aspired.

Any business changes, additions or corrections for the next edition will be thankfully received and INSERTED FREE OF CHARGE.


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Barker Chemical Co., Savannah, Ga.
Grasselli Chemical Co., Cleveland, O.
Heller, Hirsch & Co. (Brokers), 62 William, New York
International Agricultural Corp., 165 B'way, New York
Jarecki Chemical Co., Cincinnati, O.
Lang, J. M. & Co. (Brokers), Savannah, Ga.
Mt. Pleasant Fertilizer Co., Mt. Pleasant, Tenn.
**Mutual Fertilizer Co., Savannah, Ga.**
New Orleans Acid & Fertilizer Co. ("Bull-Dog"). New Orleans, La.
Planters' Fertilizer & Phosphate Co., Charleston, S. C.
Rasin Monumental Co., Baltimore, Md.
Royster, F. S. Guano Co., Norfolk, Va.
Standard Guano & Chemical Co., New Orleans, La.
Swift & Co., Union Stock Yards, Chicago, Ill.
Virginia-Carolina Chemical Co., Richmond, Va.

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## 24— Acid (Phosphoric)

Barker Chemical Co., Savannah, Ga.
General Chemical Co., 25 Broad, New York
Thomsen Chemical Co., Baltimore, Md.

## 24a— Acid Plants (Acetic)

**BADGER, E. B. & SONS CO. (Apparatus for),** 75 Pitts, Boston, Mass. (See adv. index, end of book)

## 24b— Acid Plants (Lactic)

**BADGER, E. B. & SONS CO. (Apparatus for),** 75 Pitts, Boston, Mass. (See adv. index, end of book)

## 25— Acid (Salicylic)

Heyden Chemical Works, Garfield, N. J.

## 26— Acid (Stearic)

Celina Stearic Acid Co., Celina, O.
Emery Candle Co., Cincinnati, O.
Harkness & Cowing Co., Cincinnati, O
Proctor & Gamble Co., Cincinnati, O.
Smith & Nichols (Imported), 48 South, New
Work, M. Co., Cincinnati, O. York
Will & Baumer Co., Syracuse, N. Y.

## 27— Acid (Sulphuric)

Acme Mfg. Co., Wilmington, N. C.
Alabama Chemical Co., Montgomery, Ala.
Albany Phosphate Co., Albany, Ga.
American Agl. Chemical Co., 2 Rector, New
American Fertilizer Co., Norfolk, Va. York
Anderson Phosphate & Oil Co., Anderson, S. C.
Arkansas Fertilizer Co., Little Rock, Ark.
Ashepoo Fertilizer Co., Charleston, S. C.
Baker, J. T. Chemical Co., Phillipsburg, N. J.
Baker & Adamson Chemical Co., Easton, Pa.
Bash Fertilizer Co., Fort Wayne, Ind.
Billings-Clapp Co., Boston, Mass.
Birmingham Fertilizer Co., Birmingham, Ala.
Blackshear Mfg. Co., Blackshear, Ga.
Bower, Henry Chemical Co., 29th & Gray's Ferry rd., Phila., Pa.
Butterworth-Judson Co., Newark, N. J.
Carolina Chemical Co., Richmond, Va.
Cochrane Chemical Co., 55 Kilby, Boston, Mass.
Coe-Mortimer Co., 24 Stone, New York
Contact Process Co., Buffalo, N. Y.
Cooper, Chas. & Co., 194 Worth, New York
Commercial Acid Co., St. Louis, Mo.
Coraleigh Phosphate & Fertilizer Works, Raleigh, N. C.
Coweta Fertilizer Co., Newnan, Ga.
Davison Chemical Co., Baltimore, Md.
Dockwiler & Kingsbury Co., Indianapolis, Ind.
Ducktown Sulphur, Copper & Iron Co., Isabella, Tenn.
Empire State Chemical Co., Athens, Ga.
Etiwan Fertilizer Co., Charleston, S. C.
Eureka Fertilizer Co., Perryville, Md.
Federal Chemical Co., Louisville, Ky.
Furman Farm Improvement Co., Atlanta, Ga.
General Chemical Co. (Also Fluming Sulphuric), 25 Broad, New York
General Chemical Co. of Penna., Pittsburg, Pa.
Georgia Chemical Works, Augusta, Ga.
Georgia Fertilizer & Oil Co., Valdosta, Ga.
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Griffith & Boyd Co., Baltimore, Md.
Gulfport Cotton Oil, Fertilizer & Mfg. Co., Gulfport, Miss.
Hampton Fertilizer Co., Hampton, Va.
Harrison Bros. & Co. (Inc.), Phila., Pa.
Hegeler Bros., Danville, Ill.
Home Mixture Guano Co., Columbus, Ga.
Hubbard Fertilizer Co., Darby bldg, Baltimore, Md.
Illinois Zinc Co., Peru, Ill.
Jackson Fertilizer Co., Jackson, Mich.
Jarecki Chemical Co., Sandusky, O.
Jefferson Fertilizer Co., Birmingham, Ala.
Kalbfleisch, F. H., B'way & 16th, New York
Lancaster Chemical Co., Lancaster, Pa.
Lening, Chas. & Co. (Inc.), 112 S Front, Phila., Pa.
McDonald & Weaver, Cuthbert, Ga.
Mallinckrodt Chemical Works, St. Louis, Mo.
Mandeville Mills, Carrollton, Ga.
Marietta Fertilizer Co., Atlanta, Ga.
Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Meridian Fertilizer Factory, Meridian, Miss.
Merrimac Chemical Co., Boston, Mass.
Michigan Carbon Works, Detroit, Mich.
Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill. Works: Mineral Point, Wis.
Mitchell Fertilizer Co., Providence, R. I.
Mt. Pleasant Fertilizer Co., Mt. Pleasant,
Mutual Fertilizer Co., Savannah, Ga. Tenn.
Naugatuck Chemical Co., Naugatuck, Conn.
Navassa Guano Co., Wilmington, N. C.
New Jersey Zinc Co., 55 Wall, New York
New Orleans Acid & Fertilizer Co. ("Bull-Dog"), New Orleans, La.
Ober, G. & Sons Co., Baltimore, Md.
Old Dominion Guano Co., Atlanta, Ga.
Painter, E. O. Fertilizer Co., Jacksonville, Fla.
Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Planters' Chemical & Oil Co., Talladega, Ala.
Planters' Fertilizer & Chemical Co., New Orleans, La.
Planters' Fertilizer & Phosphate Co., Charleston, S. C.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.
Rasin Monumental Co., Baltimore, Md.
Raub, E. & Sons Fertilizer Co., Indianapolis, Ind.
Read Phosphate Co., Nashville, Tenn.
Rhodes, Jas. & Co., 162 W Kinzie, Chicago, Ill.
Riverside Acid Works (Mfrs. 50, 60 & 66), Warren, Pa.
Royster, F. S. Guano Co., Norfolk, Va.
Sholes, Chas. E. Co., 164 Front, New York
Smith Agricultural Chemical Co., Columbus, O.
Southern States Phosphate & Fertilizer Co., Augusta, Ga.
Standard Chemical & Oil Co., Troy, Ala.
Standard Guano & Chemical Mfg. Co., New Orleans, La.
Stauffer Chemical Co., San Francisco & Stege,
Swift Fertilizer Works, Atlanta, Ga. Cal.
Tennessee Chemical Co., Nashville, Tenn.
Tennessee Fertilizer Co., Columbia, Tenn.
Thomas, I. P. & Son Co., Drexel bldg, Phila., Pa.
Thomsen Chemical Co., Race & Winder, Baltimore, Md.
Troup Co., La Grange, Ga.
Tunnell, F. W. & Co., 15 N 5th, Phila., Pa.
Tupelo Fertilizer Factory, Tupelo, Miss.
Union Guano Co., Winston Salem, N. C.
Union Superphosphate Co., San Francisco, Cal.
United Zinc & Chemical Co., Kansas City, Mo. Works: Argentine & Iola, Kan.
Virginia-Carolina Chemical Co., Richmond, Va.
Western Chemical Mfg. Co., Denver, Colo.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla.
York Chemical Co., York, Pa.

## 28— Acid (Tannic)

Baker & Adamson Chemical Co., Easton, Pa.
Billings Clapp Co., Boston, Mass.
Mallinckrodt Chemical Works, St. Louis, Mo.
Pfizer, Chas. & Co., 145 Front, New York
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.

## 29— Acid (Tungstic)

Mineral Products Mfg. Co., Wilmington, Del.
Primos Chemical Co., Primos, Pa.

## 30— Acid Vessels

Bishop Gutta Percha Mfg. Co., 422 E 25th, New York
Eimer & Amend, 205 3d av, New York
Fields', Chas. J. Sons ("The Grout" for Chemical Engines), 633 Market, Phila., Pa.
Goodyear Rubber Co., 787 B'way, New York
Gutta Percha Rubber Mfg. Co., 126 Duane, New York

## 31— Acid (White)

General Chemical Co. of Penna. (For Frosting Glass), Pittsburg, Pa.

## 31a— Acidometers

Tagliabue, Chas. J. Mfg. Co. ("Twichell's), 396 B'way, New York

## 32— Acids (Wood)

Corbett, M. J. & Co., Binghamton, N. Y.
Corbett & Stuart, Binghamton, N. Y.
Finch-Ross Chemical Co., Binghamton, N. Y.
Leighton, Arthur Co., Methol, N. Y.
Luzerne Chemical Co., Pittston, Pa.
Penn Chemical Co., Susquehanna, Pa.
Wright Chemical Co., Susquehanna, Pa.

## 33— Adapters (Lamp)

Arrow Electric Co., Hartford, Conn.
Benjamin Electric Mfg. Co. ("Tungsten"), 120 S Sangamon, Chicago, Ill.
Bryant Electric Co., Bridgeport, Conn.
Dale Co. ("Tungsten"), 9th ave. & 13th, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York.** (See adv. index & branch offices, end of book)
Hubbell, Harvey (Inc.), Bridgeport, Conn.
**MORSE, FRANK W. ("Webster"),** 516 Atlantic ave., Boston Mass. (See adv. index, end of book)
**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**

## 34— Addressing & Mailing

American Addressing & Mailing Co., 56 Warren, New York
Boyd's City Despatch, 16 Beekman, New York
Buckley, Dement & Co., 118 E Harrison, Chicago, Ill.
Chicago Addressing Co., 351 Dearborn, Chicago, Ill.
Circular Advertising Co., Cincinnati, O.
Cleveland Addressing Co., Caxton bldg, Cleveland, O.
Commercial Addressing & Delivering Co., 162 William, New York


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Duquesne Mailing & Advertising Co., 313 Ferguson, Pittsburg, Pa.
Evans & Kelly Addressing Co., 152 E Lake, Chicago, Ill.
Gamble, A. J. & Co., 418 Dearborn, Chicago, Ill.
Hall, E. J. (Fac-Simile Letters), 10 Cedar, New York
Howe Addressing Co., 208 S. 4th, Phila., Pa.
Imitation Typewriting & Addressing Co., 108 Randolph, Chicago, Ill
Mailing & Advertising Co., 122 Government pl, Cincinnati, O.
Multi-Mailing Co., 66 Reade, New York.
National Addressing Co., Station B, Kansas City, Mo.
R. & P. Advertising Service, Detroit, Mich.
**RAPID ADDRESSING MACHINE CO.,** 374-378 B'way, New York. (See adv. index & branch offices, end of book)
Rothschild, M. M., 417 Dearborn, Chicago, Ill.
Trade Circular Addressing Co., 167 Adams, Chicago, Ill.
Van Hoesen, H. M. Co., Sherman st at Polk, Chicago, Ill.

## 34a— Adjusters (Automatic Slack)

**WESTINGHOUSE AIR BRAKE CO.,** The, Pittsburg, Pa.

## 35— Adjusters (Brake Slack)

American Brake Co. (Automatic), 1932 N B'way, St. Louis, Mo.
Chicago Railway Equipment Co., 46th & Winchester av, Chicago, Ill.
Fisher Slack Adjuster & Ry. Equipment Co., Murphysboro, Ill.
Gould Coupler Co., 345 5th av, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Western Railway Equipment Co. ("Acme" Automatic), St. Louis, Mo.
**WESTINGHOUSE AIR BRAKE CO.,** Pittsburg, Pa.

## 36— Adjusters (Casement)

Casement Hardware Co. ("Holdfast," "Bull Dog"), Chicago, Ill.
Ives, H. B. Co., New Haven, Conn.
Payson Mfg. Co., W. Jackson boul., Chicago, Ill.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Rixson, Oscar C. Co. ("Sperry" Casement Window Lock & Adjuster), 540 Harrison, Chicago, Ill.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York
Zimmerman, G. F. S. & Co. ("Zimmerman", "Wallings") Frederick, Md.
Zimmerman, Harry & Co. ("Zimmerman" Window), Fremont, Ohio

## 37— Adjusters (Cord)

American Enamel Co., Providence, R. I.
**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
Arrow Electric Co. ("Dow"), Hartford, Conn.
Carter, J. W. & Co. ("Eclipse"), Abilene, Tex.
**CONTINENTAL FIBRE CO. (Vulcanized Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Fibre),** Elsmere, Del. (See adv. index, end of book)
Electric Specialty Mfg. Co. ("King"), Pittsburg, Pa.
Estes, E. B. & Sons, 74 Warren, New York
Gail-Webb Mfg. Co. ("Universal"), Buffalo, N. Y.
Gay Mfg. Co., 177 W Main, Rochester, N. Y.
Keengh Electric Co., Boston, Mass.
McGill Mfg. Co. ("Crescent" Innovate & Universal), Valparaiso, Ind.
Matthews, W. N. & Bro. ("Matthews," "Easy"), St. Louis, Mo.
**MORSE, FRANK W. ("Morse,"** "Handy" Automatic), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
Novelty Turning Co., Norway, Me.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Smith, Theodore, Mfg. Co., 428 Thropp, Chicago, Ill.
Stewart, Frank H. Electric Co., 35 N 7th, Phila., Pa.
Tower-Binford Elec. & Mfg. Co. ("Diamond"), Richmond, Va.
Trumbull Electric Mfg. Co. ("Ideal"), Plainville, Conn.
Vote-Berger Co. ("Two Ball," for Incandescent Drop Light), La Crosse, Wis.
Western Electric Co., 500 S. Clinton, Chicago, Ill., & 57 Bethune, New York
**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index & branch offices, end of book)
Yost Electric Mfg. Co. ("Electrogrip"), Toledo, Ohio

## 38— Adjusters (Lamp)

Frantz Specialty Mfg. Co. ("Frantz" Lightning Adjusted for Incandescent Lamps), Sterling, Ill.
**GENERAL ELECTRIC CO., Schenec-** (See adv. index & branch offices, end of book)
**MORSE, FRANK W. ("Webster"),** 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
Vote-Berger Co. (Two Ball," for Incandescent Drop Light), La Crosse, Wis.

## 39— Adjusters (Switch Point)

Bossert, W. F. Mfg. Co., Utica, N. Y.

## 40—Advertising Matter Prepared

Gibson, Geo. H., Tribune bldg, New York
McIntosh, Francis A. W., Real Estate Trust bldg, Philadelphia, Pa.
Van Holsen, H. M. Co. (Printers, Lithographers, Embossers, High Class Form Letters, etc.), 114 Sherman, Chicago, Ill.
Varing, Vechten (Advertising Writing, Printing, Illustrating & Booklets, Catalogues, etc.), 92 John, New York

## 41— Advertising Novelties

Aluminum Goods Mfg. Co., Mantiowoc, Wis.
American Mfg. Concern (Full Line of Wooden Novelties), Jamestown, N. Y.
**American Name Plate & Mfg. Co. (Etched) 15 W Michigan, Chicago, Ill.**
Barlow Mfg. Co. (Brass, Copper, etc.), Holyoke, Mass.
Barton & Spooner Co. (Booklets, Calendars, Post Cards & Specialties), Cornwall-on-the-Hudson, N. Y.
Beach, H. D. Co., Cochocton, O.
Bell Novelty Advertising Co., Bellefontaine, O.
Best Mfg. Co., New Haven, Conn.
Brown & Kearney Mfg. Co. (Wood Rulers, Yard Sticks, Aprons, Signs, etc.), Silver Springs, N. Y.
Buechner Mfg. Co., Battle Creek, Mich.
**Canton Cutlery Co. (High Grade Photo Pocket Knives), Canton, O.**
**Carroll, J. Bruce (Celluloid Pocket Mirrors), 217 W Illinois, Chicago, Ill.**
**CONTINENTAL FIBRE CO. (Vulcanized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)**
**Coshocton Novelty Co., Coshocton, O.**
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works: Manhattantown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Hard** Fibre), Elsmere, Del. (See adv. index, end of book)
**Donker & Williams Co., 1322 Wabash av, Chicago, Ill.**
Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
**Illustrated Postel Card & Novelty Co., 320 W** 48th, New York
Lufkin Rule Co. (Tapes & Rules), Saginaw.
Meek Co., Coshocton, O. Mich.
National Advertising Co. (Yard Sticks & Novelties), Seneca Falls, N. Y.
National Selling Co., Allentown, Pa.
National Sheet Metal Co. (Stamped from Nickelene or Nickeltin), Peru, Ill.
New York Aluminum Co., 377 B'way, New York
**NIAGARA FALLS METAL STAMPING** Works (Brass, Copper, etc.), Niagara Falls, N. Y. (See adv. index, end of book)
Novelty Advertising Co., Coshocton, O.
**Novelty Cutlery Co. (High Grade Photo Pocket Knives, Transparent Handle), Canton, O.**
Osborne Co. (Calendars & Novelties), Washington & Hubert, New York
**St. Louis Button Co. (Badges, Buttons, Banners, Enameled Emblems & Pins), 415 Lucas av, St. Louis, Mo.**
Waring, Vechten (Booklets, Catalogues, etc.), 92 John, New York
Weber, G. L. Co., Wainwright bldg, St. Louis, Mo.
Westcott-Jewell Co. (Rulers, Yard Sticks, etc.), Seneca Falls, N. Y.
West Lafayette Mfg. Co. (Wooden), West Lafayette, O.
Whitehead & Hoag Co., Newark, N. J.
**Wolf & Co., 348 N 12th, Phila., Pa.**

## 42— Adze Mfrs.

American Axe & Tool Co. (Coopers, Ship, Railroad, etc.), Glassport, Pa.
Atha Tool Co., Newark, N. J.
Black, J. B. ("Wm. Beatty & Sons" Carpenters', Coopers', Railroad, Ship Carpenters', Gutter or Spout), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Collins Co., Collinsville, Conn.
Evansville Tool Works (Carpenters', Railroad, Ship Carpenters', etc.), Evansville, Ind.
Hammond, C. & Co., Ogontz, Pa.
Mack & Co. ("D. R. Barton"), Railroad, Carpenters, etc.), Rochester, N. Y.
Norton Tool Co., West Park, O.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R., P. R. R. c Tucker, Phila., Pa.
Romer Axe Co., Dunkirk, N. Y.
Sayre, L. A. & Co., Newark, N. J.
United States Edge Tool Co., Cattaraugus, N. Y.
Weston, Thomas B., Baltimore, Md.
White, L. & I. J. Co. (Carpenters', Bridge, Railroad, Mill, Ship, etc.), Buffalo, N. Y.

## 42a—Aeroplane Mfrs. (Hollow Construction)

**BOSTON OREGON MAST CO., 131** Coleridge, E. Boston, Mass. (See adv. index, end of book)

## 42b— Aftercoolers

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 43— Agalite

Atlas Mineral & Machine Co., Lincoln, N. J.
International Pulp Co., 41 Park Row, New York
Williams, C. K. & Co., Easton, Pa.

## 44— Agitators

**ALLIS-CHALMERS CO. (Mining),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Bellows Falls Machine Co. (For Paper Mills), Bellows Falls, Vt.
**Blaisdell Co. ("Blaisdell" Mining or Slime Treatment), Los Angeles, Cal.**
Calvert Machine Co. (Lard Compound), Baltimore, Md.
Carroll-Porter Boiler & Tank Co. (Mining), Empire bldg, Pittsburg, Pa.
Colorado Iron Works Co. ("Akins-Rothwell"), Denver, Colo.
**CROSSLEY MACHINE CO. (Clay),** Trenton, N. J. (See adv. index, end of book)
Day, J. H. & Co. (Liquid), Cincinnati, O.
Frelinger, J. G. Iron Works (Paint, Varnish & Oil), Cincinnati, O.
**HAMMOND IRON WORKS (Air, Cy-** anide, etc.), Warren, Pa. (See adv. index & branch offices, end of book)
Hendryx Cyanide Mach'y Co. ("Hendryx", Combination Agitator & Filter, for Ore), 107 William, New York
Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See av. index, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
Perrin, M. R. & Co. (Lard), Loomis & 46th, Union Stock Yards, Chicago, Ill.
Pollock, M. B. Co. (Brewers). Youngstown, O.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Rice, Barton & Fales Machine & Iron Co. (For Paper Mills), Worcester, Mass.
Richards Iron Works (Cheese), Manitowoc, Wis.
Riter-Conley Mfg. Co. (Mining), Pittsburg, Pa.
Smith, Samuel & Son Co., Paterson, N. J.
Schulte & Koerting Co., 1251 N 12th, Phila., Pa.
Sowers Mfg. Co. (Soap Makers), Buffalo, N. Y.
Triumph Ice Machine Co., Cincinnati, O.

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## 45— Agitators (Oil)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)

**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**PETROLEUM IRON WORKS CO., Sharon, Pa. (See adv. index & branch offices, end of book)**

**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)

## 46—Agricultural Implement Mfrs.

(For sub-classifications of this trade see also Cultivators; Cutters; Diggers, Various Kinds; Drills, Various Kinds; Engines, Traction; Harrows, Various Kinds; Harvesters, Various Kinds; Hullers, Various Kinds; Mills, Various Kinds; Mowers & Reapers; Planters, Various Kinds; Plows, Various Kinds; Presses, Baling & Hay; Pumps, Various Kinds; Rakes, Various Kinds; Rollers, Land & Field; Saw Mills, Portable; Seeders & Sowers; Self Feeders & Band Cutters for Threshers; Shellers, Corn; Slings, Hay; Stackers, Various Kinds; Tedders, Hay; Threshers; Tools, Haying; Weeders, Various Kinds; Weighers, Loaders & Baggers, Grain; Windmills)

For all other Implements, Machines, Tools, etc., used for agricultural purposes, see Index of Contents.

### ALABAMA.

**BIRMINGHAM**—Continental Gin Co. (Cotton Seed Linters)

**ENSLEY**—Empire Plow Co. (Office, Cleveland, Ohio)

**TUSCUMBIA**—Rowland, T. T. & Son (Cultivators)

### ARKANSAS.

**PARAGOULD**—Roy Plow Co. (Plows, etc.)

### CALIFORNIA.

**BENICIA**—Benicia Iron Works (Plows, Harrows, Cultivators, Rakes, Rickers, Loaders & Stackers, Seeders & Sowers, etc.)

**FRESNO** — Fresno Agricultural Works (Inc.) (Plows, Road Scrapers, etc.)

**LOS ANGELES**—Killefer-Griffith Mfg. Co. (Cultivators)

**OAKLAND**—Brand, R. & Co., 521 2d

**SAN FRANCISCO**—Jackson, Byron Machine Works (Horse Hay Forks, Rakes, Stackers, Carriers, Harrows, Theshing Derricks, etc.)

Krogh Mfg. Co. (Windmills, Tanks, Pumps, etc.)

**SAN JOSE** — Anderson-Barngrover Mfg. Co. (Plows & Pulverizers, Fruit Drying & Curing Apparatus)

**SAN LEANDRO**—Best Mfg. Co. (Harvesters, Binders, Traction Engines, etc.)

**STOCKTON**—Holt Mfg. Co. (Harvesters, Binders, Traction Engines)

Houser & Haines Mfg. Co. (Grain Drills, Combined Harvesters, Gang & Disk Plows, Spike Tooth Harrows, etc.)

Shaw, H. C. & Co. (Harrows & Gang Plows)

### COLORADO.

**DENVER**—Plattner Implement Co. (Hay Stackers, Rakes, Harrows)

**GREELEY**—Brown, Peter & Son (Potato Diggers & Sorters)

**PUEBLO**—Mead Hay Press Co. (Harrows, Cultivators)

### CONNECTICUT.

**HIGGANUM**—Cutaway Harrow Co. ("Clark's" Harrows, Plows, Root Cutters, etc.)

Scoville, D. & H. (Planters' Hoes)

**NEW HARTFORD**—Rogers Rake Co. (Hand Hay Rakes)

**NEW LONDON**—Brown Cotton Gin Co. (Cotton Seed Linters)

**SOUTHPORT**—Jelliff, C. O. Mfg. Corp. (Harrows & Onion Drills, Hoes, Pullers, etc.)

### GEORGIA.

**ATHENS**—Umbach, F. G. (Harrows, etc.)

**ATLANTA**—Atlanta Agricultural Works (Plows, Harrows, Cultivators, etc.)

**AUGUSTA**—Wirtz & Hernlen (Hay Presses, Harrows, etc.)

**COLUMBUS**—Southern Plow Co. (Plows, Cultivators, Harrows, Cotton Planters, etc.)

**DALTON** — Farrar Lumber Co. (Pea Hullers, Hay Pressers, etc.)

Nancy Hanks Hay Press Mfg. Co. (Hay Presses, Pea Threshers, etc.)

Sanders Improved Hay Press Mfg. Co. (Hay Presses, etc.)

Sanders Mfg. Co. (Pea & Bean Hullers)

**ENSLEY**—Empire Plow Co. (Cultivators, Plows)

**HELENA**—Tillman Mfg. Co.

**MACON**—Gautt Mfg. Co. (Cotton Planters, Fertilizers & Grain Drills, etc.)

Williams Buggy Co. (Hay Presses)

**NEWNAN**—Cole, R. D. Mfg. Co. (Corn Mills)

**ROME**—Towers & Sullivan Mfg. Co. (Plows, Harrows, Cultivators)

**WINDER**—Woodruff Hardware & Mfg. Co. (Hay Presses, Pea Hullers, Threshers, etc.)

### ILLINOIS.

**ALBION**—Painter & Frankland (Plows)

**ALTON**—Hapgood Plow Co. (Corn Planting Drills, Plows, Listers, etc.)

**ARLINGTON HEIGHTS**—Kolling Husker & Shredder Works (Corn Huskers, & Shredders)

**AURORA**—Phillips, T. L. (Feed Mills, etc.)

**Western Wheeled Scraper Co. (Plows, Road Machinery, etc.)**

**AVA**—Spinner, E. F. (Plows, etc.)

**BATAVIA**—Appleton Mfg. Co. (Feed Mills, Stalk Cutters, Corn Shellers, Feed Cutters, Fanning Mills, etc.)

Challenge Co. (Feed Mills, Corn Shellers, Feed Cutters)

Sperry, D. R. & Co. (Farm Boilers. Feed-Cookers, etc.)

U. S. Wind Engine & Pump Co. (Feed Mills, Corn Shellers)

**BELLEVILLE**—Gundlach, Philip M. Sons, (Grain Drills, etc.)

**Harrison Machine Works (Threshers, Straw Stackers)**

**BUSHNELL**—Norcross, C. S. & Sons (Garden Cultivators, Adjustable Hand)

**CANTON**—Parlin & Orendorff Co. (Plows, Harrows, Cultivators, Planters, Listers)

**CARPENTERSVILLE** — Star Mfg. Co. (Plows. Harrows, Feed Cutters)

**CARTHAGE**—Leader Mfg. Co. (Corn Graders & Seed Separators)

**CHICAGO**—Aermoter Co. (Feed Mills), 1146 S Campbell av.

Bristol & Gale Co. (Harrows, Corn Shellers, etc.), 158 W North Water

**Creamery Package Mfg. Co. (Dairy &** Creamery Machinery, etc.), 61 W Kinzie

**INTERNATIONAL HARVESTER** Co. of America (Mowers, Reapers, Binders, Rakes, Stackers, etc.), 230 Michigan av., Chicago, Ill. (See adv. index, end of book)

Masters Planter Co. (Hand Transplanters) 178 S Water

Pratt, W. E. Mfg. Co. (Dehorners, Seed Sowers, etc.), 91 Lake

Smith Mfg. Co. (Manure Spreaders), 158 Harrison

**Whitaker Mfg. Co. (Cultivators, Hay Carriers, etc.), 509 W Monroe**

**DECATUR**—Beall Improvements Co. (Seed Corn Sorters)

Chambers, Bering, Quinlan Co. (Hay Loaders, Rakes, Planters, Check Rowers)

Hartley, C. J. Co. (Grain Weighers, etc.)

**UNION IRON WORKS (Inc.)** (Power Corn Shellers), 630 E William. (See adv. index, end of book)

Williams Mfg. Co. (Planters, Grain Weighers, etc.)

**DE KALB**—Haish, Jacob Co. (Harrows, Corn Shellers)

**DIXON**—Grand Detour Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)

**DWIGHT**—Spencer, J. A. (Hay Presses)

**EAST MOLINE**—Marseilles Mfg. Co. (Feed Mills, Corn Shellers, etc.)

**EDWARDSVILLE**—Springer Bros. Mfg. Co. (Potato Planters)

**ELGIN**—Elgin Wind Power & Pump Co. (Feed Mills)

**EOLA**—Larimer Mfg. Co. (Ditching Plows)

**FREEPORT**—Schofield & Co. (Potato Planters & Diggers)

**Stover Mfg. Co. (Feed Mills, Corn Shellers)**

**GALVA**—Hayes Pump & Planter Co. (Harrows, Cultivators, Planters, Listers)

**Mulford Heater Co. (Corn Planters)**

**Wistrand Mfg. Co. ("Blue Star" Corn Planters)**

**GRAFTON**—Rippley Hardware Co. (Feed Mills & Cookers)

**HARVARD**—Hunt, Helm, Ferris & Co. (Hay Carriers, etc.)

**HAVANA**—Crescent Forge & Shovel Co. (Garden Plows & Cultivators)

**HOOPESTON**—Rusk Evener Co. (Equalizers, etc.)

**JOLIET**—Humphrey & Sons (Bone & Clover Cutters, Hand Seed Sowers)

Joliet Mfg. Co. (Corn Shellers)

**Taylor Husker & Shredder Co. (Corn Huskers & Corn Picker & Husker)**

**KANKAKEE**—Kemp's Mfg. Co. (Hay Presses)

**KEWANEE**—Boss Mfg. Co. (Hand Corn Huskers)

Peters Pump Co. (Planters & Pumps)

**LAGRANGE**—Naylor, J. R. Mfg. Co. (Harrows)

**LINCOLN**—Sheer, Eugene (Land Rollers, Stalk Rakes, etc.)

**LITCHFIELD**—Woodcock, J. C. & Co. (Feed Mills)

**MAROA**—Maroa Mfg. Co. (Cultivators, etc.)

**MARSEILLES**—Marseilles Harrow Mfg. Co. (Harrows)

Swanson Mfg. Co. (Cultivators, Haying Tools, etc.)

**MASCOUTAH**—Trappe, C. H. (Fanning Mills)

**MENDOTA**—Tower, J. D. & Sons Co. (Cultivators, Pulverizers, Clod Crushers, etc.)

**MINIER**—Schroeder Bros. (Grain Dumps, etc.)

**MOLINE**—Deere & Co. (Plows, Harrows, Cultivators, Listers)

**Deere & Mansur Co. (Planters, Cultivators, Hay Loaders, Rakes, Listers, Corn Shellers, Seeders)**

**Moline Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)**

**Sechler D. M. Implement & Carriage Co.** (Cultivators, Harrows, Corn Planters, etc.)

**MONMOUTH**—Milne Mfg. Co. (Stump Pullers)

Monmouth Plow Co. (Plows)

Pattee Plow Co. (Cultivators, Plows, etc.)

**OTTAWA**—Jordan, R. C. (Hay Carriers)

**King & Hamilton Co. (Cultivators, Corn Shellers)**

Porter, J. E. Co. (Planters, Rakes, Hay Carriers, Hay Presses, Stackers, etc.)

**PAXTON**—Kramer, E. M. Co. (Harrows, etc.)

**PEKIN**—Duisdieker Foundry & Mfg. Co. (Feed Steamers, Clod Crushers & Pulverizers)

**PEORIA**—Acme Harvesting Machine Co. (Harvesters, Binders, etc.)

Avery Co. (Cultivators, Threshers, Planters)

**Colean Mfg. Co. (Threshers)**

**Engel, J. A. & Co. (End Gate Seeders)**

**Hart Grain Weigher Co. (Grain Weighers)**

**Herschell, R. Mfg. Co. (Sickles, etc.)**

**Illinois Implement Co. (Combination Harrow Cart & Hand Cart)**

**Kingman Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)**

**Peoria Drill & Seeder Co. (Grain Drills, Seeders, etc.)**

Sester Mfg. Co. (Seeders, etc.)

Steel Weigher Co. (Grain Weighers, etc.)

**PERU**—Peru Plow & Wheel Co. (Plows, Harrows, Cultivators, Planters, Listers)

**PINCKEYVILLE**—Eaton Plow Works (V. A. Stookey & Son, Prop's) (Plows, Harrows)

**PLANO**—Independent Harvester Co. (Harvesters, Manure Spreaders, etc.)

Sears, Albert H. (Harrows, Cultivators, etc.)

**PONTIAC**—Meadows Mfg. Co.

Spartan Mfg. Co.

**QUINCY** — Collins Plow Co. (Plows, Harrows, Cultivators, Hay Presses, etc.)

Electric Wheel Co. (Feed Cookers & Metal Wheels)

Empire Mfg. Co. (Feed Cookers, Metal Wheels, etc.)

Ertel, Geo. Co. (Hay Presses, etc.)

**Quincy Corn Planter Co. (Corn Planters)**

**ROCKFORD**—Emerson Bautingham Co. (Mowers, Binders, Plows, Harvesters, Cultivators, Rakes, Planters, Listers)

Rockford Mfg. Co. (Plows, Harrows, Cultivators)

**ROCK ISLAND**—Rock Island Plow Co. (Plows, Harrows, Cultivators, Hay Loaders, Planters, Listers, Seeders & Sowers)

**SANDWICH**—Sandwich Mfg. Co. (Feed Mills, Hay Loaders, Corn Shellers, Hay Presses)

**SHELBYVILLE**—Sturgis, W. B. & Son (Plows)

**SPARTA**—Sparta Plow Works (Plows, Harrows, Cultivators)

Sproul, Matt. (Corn Shredders)

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SPRINGFIELD—Fetzer, Wm. Co. (Corn & Grain Drills, Harrows, Transplanters, etc.)
Heinecke & Co. (Straw Stackers & Self-Feeders)
Racine-Sattley Co. (Plows, Cultivators, Drills, Harrows, etc.)
STERLING—Platt, A. J. (Potato Planters)
Sterling Mfg. Co. (Harrows, Feed Mills, Hay Loaders, Rakes, Tedders, Planters, Seeders & Sowers)
WASHINGTON—Camp Bros. & Co. (Grain Dumps)

## INDIANA.

CAMBRIDGE CITY—Champe, Frank N. (Hand Corn Planters)
National Drill Co. (Cultivators, Grain Drills, etc.)
COLUMBUS—Caldwell Mfg. Co. (Feed Grinders, Corn Shellers, Manure Spreaders, etc.)
Reeves & Co. (Threshers, Grain Weighers, Clover Hullers)
EAST CHICAGO — Famous Mfg. Co. (Sweep Rakes, Stackers, Hay Presses, etc.
EVANSVILLE—Blount Plow Works (Plows, etc.)
Davidson-Dietrich Plow Co. (Plows, etc.)
Hartig-Becker Plow Co. (Plows, Cultivators)
Heilman Machine Works (Threshers & Engines)
Vulcan Plow Co. (Plows, etc.)
FERDINAND—Kitten, F. Foundry & Machine Works (Threshers)
FORT WAYNE—Indian Road Machine Co. (Plows & Road Making Machinery)
FRANKFORT—Hoke Mfg. Co. (Cultivators & Harrows)
GOSHEN—Goshen Mfg. Co. (Hay Slings)
HAMMOND—Champion Potato Machinery Co. (Potato Planters, Diggers, etc.; also Peanut Planters, etc.)
Schreiber Mfg. Co. (Potato Diggers, Planters, Cutters & Sorters)
INDIANAPOLIS—American Buncher Mfg. Co. (Bunchers for Clover, Timothy, Oats, Peas, etc.)
Atkins, E. C. & Co. (Corn, Beet & Cane Knives)
Kenney Machinery Co. (Corn Huskers Shredders, etc.)
Nordyke & Marmon Co. (Feed, Corn & Cob Mills, Fanning Mills, Corn Shellers, etc.)
Prairie Mfg. Co. (Sowers, Cultivators & Garden Drills)
Russell Wind Stacker Co. (Straw Stackers), 1001 Shelby
Sattley Stacker Co. (Straw Stackers, etc.)
KENDALLVILLE — Flint & Walling Mfg. Co (Feed Mills, Wind Mills, etc.)
LA PORTE—Rumley, M. Co. (Threshers, Stackers, Traction Engines, Clover Hullers)
LIBERTY—Rude Bros. Mfg. Co. (Cultivators, Grain & Corn Drills, Rakes, etc.)
LOGANSPORT—King Drill Co. (Grain Drills)
MARION—American Drill Co. (Grain Drills)
MISHAWAKA—Mishawaka Plow Co. (Plows, etc.)
Perkins Wind Mill Co. (Feed Mills, Cutters, Corn Shellers)
MOUNT VERNON — Keck-Gonnermann Co. (Threshers, etc.)
NAPPANEE—Hess Mfg. Co. (Garden Plows, Cultivators, Seed Drills, Onion Weeders, etc.)
NEW CASTLE—Safety Shredder Co. (Corn Husker & Fodder Shredder Combined)
NORTH MANCHESTER—Little Giant Seeder Co. (Hand Seed Sowers)
PERU—Spring Grain Drill Mfg. Co. (Grain Drills, etc.)
RICHMOND—American Seeding Machine Co. (See Springfield, O.)
Eureka Fence Mfg. Co. (Hand Corn Planters)
Gaar, Scott & Co. (Threshers, Stackers, Grain Weighers, Clover Hullers, Traction Engines)
Hoosier Drill Co. (Grain Drills, etc.)
Robinson & Co. (Threshers, Stackers, Grain Weighers)
Wayne Works (Grain Drills, Planters, Seeders & Sowers)
SOUTH BEND—Birdsell Mfg. Co. (Straw Stackers, Clover Hullers, etc.)
Bowsher, N. C. Co. (Feed Mills, Barley Crushers)
Oliver Chilled Plow Works (Plows)
South Bend Chilled Plow Co. (Plows, Harrows, Cultivators)
URBANA — Cyclone Seeder Co. ("Cyclone," "Chicago" & "Champion, Jr.," Seed Sowers)
VINCENNES—Hartman Mfg. Co. (Cultivators, etc.)
WASHINGTON — Clore, Wm. H. Mfg. Co. (Cultivators & Plows)

## IOWA.

ATLANTIC—Ulbrick Seed Corn Tester Co. (Seed Corn Testers)
CEDAR FALLS—Monarch Self-Feeder Co. (Feeders, Stackers, etc.)
CEDAR RAPIDS—Myers, F. E. & Bro.
CENTERVILLE—Hercules Mfg. Co. (Feed Mills & Stump Pullers)
CHARLES CITY—Daley, M. H. (Disc Harrows)
COUNCIL BLUFFS—Children's, E. Sons Mfg. Co. (Cultivators, Grain Drills, Hay Stackers, Hay Rakes, etc.)
Hay Tool Mfg. Co. (Hay Stackers, etc.)
Walker Mfg. Co. (Hay Rakes, Stackers, etc.)
CRESCO—Caward, R. S. (Plows & Grubbing Machinery)
Swenson Grubber Co. (Stump Pullers)
DAVENFORT—Voss Bros. Mfg. Co. (Corn Cutters)
DES MOINES—Gee Whizz Mfg. Co. (Fodder Spieth, Gottlieb F. & Son (Plows) Forks)
Wood Bros. Thresher Co. (Threshers, Traction Engines, etc.)
DUBUQUE—Union Transfer Co. (Pulverizers)
FAIRFIELD — Louden Machinery Co. (Hay Forks & Carriers, etc.)
FORT MADISON—Fort Madison Plow Co. (Plows, Harrows, Cultivators, Planters)
Iowa Farming Tool Co. (Haying Tools)
IOWA CITY—Kelly, O S. Western Mfg. Co. Threshers, Feed Mills, Manure Spreaders, etc.)
KNOWLTON—Ideal Farm Implement Co. (Corn Cutters & Shockers, etc.)
LONE TREE—Zimmerman Steel Co. (Stump Pullers, Pitless Wagon Scales, etc.)
MONTROSE—Standard Garden Tool Co. (Garden Seeding & Cultivating Implements)
NASHUA—Bloom Mfg. Co. (Manure Spreaders. Harrows, etc.)
NEWTON—Parsons Band Cutter & Self-Feeder Co. ("Buffalo" Hay Presses, Corn Huskers, "Parsons & Ruth" Band Cutters & Self-Feeders)
Parsons Hawkeye Mfg. Co. ("Hawkeye" Grain Graders & Cleaners, Self-Feeders. Manure Spreaders, Hog Waterers, etc.)
NORTHWOOD—Stack Ensilage Improvement Co. (Ensilage Stock Compressors)
OTTUMWA—Dain Mfg. Co. (Feed Mills, Hay Loaders, Haying Tools, Rake, Hay Presses)
La Crosse Hay Tool Co. (Hay Loaders. Rakes & Stackers)
PELLA—Pella Stacker Co. (Straw Stackers, Band Cutters & Self Feeders)
PRAIRIE CITY—Dowden Mfg. Co. (Ltd.) (Harrows, Potato Diggers, etc.)
SIOUX CITY—Morley Twine & Machinery Co. (Band Cutters & Self Feeders, & Feed Grinding Mills, etc.)
SPENCER—Maurer, F. X. Co. (Hay Presses)
VINTON—Robinson Spreader Co. (Manure Spreaders)
WATERLOO—Bovee Grinder & Furnace Work (Grinding Mills)
Corn King Feed Mill Co. (Feed Grinding Mills)
Galloway, Wm. Co. (Harrows, Cream Separators. Manure Spreaders, etc.)
Litchfield Mfg. Co. (Manure Spreaders, Feed Grinders, etc.)
Swift Mfg. Co. (Feed Mills & Cookers)
WAUKON—Johnson, John S. (Lever Harrows)
WAVERLY—Friedeman Harrow Co. (Reversible & Flexible Spike Tooth Harrows)
WEBSTER CITY—Closz & Howard Mfg. Co. (Grain Separators, etc.)

## KANSAS.

COFFEYVILLE—Coffeyville Implement & Mfg. Co. (Plows, etc.)
GALENA—Galena Harrow Co. (Steel Lever Harrows)
KANSAS CITY—Clippinger, A. B. & Son Co. (Hay Stackers)
Strait, H. N. Mfg. Co. (Hay Presses, Scales, etc.)
Western Steel & Wire Co. (Hay Presses)
LEAVENWORTH—Great Western Mfg. Co. (Grain & Rice Cleaners)
MANHATTAN—Blue Valley Mfg. Co. (Feed Mills)
NEWTON—Prairie Queen Mfg. Co. (Threshers)
SALINA—New Process Mfg. Co. (Corn Cultivators & Corn Harvesters)
Kouns, Wesley (Hay & Grain Rake, Loader & Stacker combined; Push Rakes)
Wyatt, F. Mfg. Co. (Hay Stackers)
STAFFORD—Milton Garvin Steam Plow Co. (Plows, etc.)
TOPEKA—Auto-Fedan Hay Press Co. (Hay Presses)
Currie Windmill Co. (Feed Mills)
Pugh, B. H. Mfg. Co. (Potato Planters)
Topeka Foundry & Machine Co. (Sub-Surface Soil Packers)

## KENTUCKY.

CARLISLE—King, R. O. Hardware Co. (Blue Grass Seed Strippers)
LOUISVILLE — Avery, B. F. & Sons (Inc.) (Plows, Harrows, Cultivators, Rakes, Planters, etc.)
Brinly-Hardy Co. (Inc.) (Plows, Hand Corn Shellers, Cotton Scrapers & Sweeps, Harrows, etc.)
Kentucky Drill Co. (Grain Drills, Corn Shellers, etc.)
MAYSVILLE—Hall, Jas. H. Plow Co. (Plows, Cultivators)
Maysville Foundry, Machine & Marine Co. (Plows)

## LOUISIANA.

AMITE—Gullett Gin Co. (Cotton Gins, Feeders & Condensers, etc.)
NEW ORLEANS—Boland Machine & Mfg. Co. (Rice Milling Machines & Rice Cleaners)

## MAINE.

NORTH BERWICK—Hussey Plow Co. (Cultivators, Plows, etc.)
Varney, J. B. Plow Co. (Plows)
OLD TOWNE—Dirigo Mfg. Co.
PORTLAND—Frye, J. J. (Plows, Cultivators, Harrows)
SKOWHEGAN—Nolin Mfg. Co. (Scythes, etc.)

## MASSACHUSETTS.

BARRE—Allen, Charles, G. Co. (Rakes, Plows, etc.)
BOSTON—Ames Plow Co. (Plows, Harrows, Cultivators, Rakes, Tedders, Planters, Fanning Mills, Feed Cutters), Quincy Hall
CHICOPEE FALLS—Belcher & Taylor Agricultural Tool Co. (Plows, Harrows, Fanning Mills, Cultivators, Planters, Tedders, Feed Cutters, Potato Diggers, etc.)
MILFORD—Mann, F. W. Co. (Corn Shellers, Clover Cutters, etc.)
WORCESTER—Richardson Mfg. Co. (Mowers, Rakes, Tedders)

## MICHIGAN.

ADRIAN—Babcock Planter Co. (Hand Corn Planters)
ALBION—Gale Mfg. Co. (Plows, Harrows, Cultivators, Rakes, Planters, Listers, Seeders & Sowers)
ALMA — Little Giant Hay Press Co. (Hay Presses, etc.)
ALMONT—Lee, Rob't E. (Plows, Feed Cutters)
ANN ARBOR—Ann Arbor Machine Co. (Feed Cutters, Hay Presses, etc.)
BATTLE CREEK—Advance Thresher Co. (Grain Weighers, Threshers, Stackers)
Nichols & Shepard Co. (Threshers, Stackers, Grain Weighers)
BAY CITY—Valley Wind Engine & Iron Co. Grinding Mills, etc.)
BLAINE—Fair & Sons (Plows)
BUCHANAN—Black, Geo. H. (Garden Cultivators)
BURR OAK—Sheffield Mfg. Co. (Corn & Potato Planters)
DETROIT—American Harrow Co. (Cultivators, Planters), 1482 Hasting
Campbell, Manson Co. (Fanning Mills), 103 Wesson av
DOWAGIAC—Dowagiac Mfg. Co. (Grain Drills, Seeders & Sowers)
GALIEN—Montross, Richard W. (Barley Forks)
GRAND LEDGE — Streeter, Hiram R. (Corn Shellers, etc.)
GREENVILLE—Greenville Implement Co. (Cultivators, Plows, Feed Cutters)
Moore Plow & Implement Co. (Plows, Culti-
HOLLY—Patterson & Brown Bros. Mfg. Co. (Bean Harvesters, Cultivators, etc.)
HOMER—Seeder Mfg. Co. (Seeders & Sowers)
JACKSON—Aspinwall Mfg. Co. (Potato Planters & Diggers, etc.)
Watts Mfg. Co. (Corn Shellers)
KALAMAZOO—Clark Engine & Boiler Co. (Feed Cookers, etc.)
Phelps & Bigelow Wind Mill Co. (Feed Cookers)
Reed Mfg. Co. (Cultivators, Seeders, etc.)
Smith & Pomeroy Windmill Co. (Feed Mills & Windmills)
LAPEER—Bostick Stove Co. (Plows)

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MONROE—Wilder-Strong Implement Co. (Harvesters, Plows, Feed Cutters)
MOUNT CLEMENS—Donaldson Bros. (Plows, Harrows, Cultivators, Planters, Feed Cutters)
NORTHVILLE—American Bell & Foundry Co. (Corn Shellers, Fruit & Potato Sorters, etc.)
PONTIAC—Bacon Mfg. Co. (Seeder, Bean Pickers & Garden Cultivators)
Howland, Ephraim & Sons (Plows, Harrows, Cultivators, Feed Cutters)
PORT HURON—Port Huron Engine & Thresher Co. (Plows, Threshers, Stackers, Feed Mills, Corn Shellers, Weighers)
SAGINAW—American Beet Harvester Co. (Beet Topper & Lifter)
Farmers' Handy Wagon Co. (Cultivators, Harrows, etc.
Ferrell, A. T. & Co. (Bean Cleaners & Mitts & Merrill (Plows) Sorters)
ST. JOHNS—Mason, F. C. & Co. (Weeders)
St. Johns Foundry Co.
TECUMSEH—Heeson Bros & Co. (Feed Cookers)
TRAVERSE CITY—Potato Implement Co. (Acme Corn & Potato Planters)
YPSILANTI—Thompson, Oliver E. & Sons (Root Cutters & Grass Seeders)

## MINNESOTA.

ALBERT LEA—Edwards, C. D. (Stump Pullers)
AUSTIN—Johnson & Smith Co. (Plows, Harrows, etc.)
CROOKSTON—Crookston Mfg. Co. (Land Roller & Soil Pulverizer)
Maple Bay Mfg. Co. (Straw Stackers, etc.)
MINNEAPOLIS—Cleland Mfg. Co. (Fanning Mills)
Howell, R. R. & Co. (Harrows, Cultivators, Grain Drills & Feed Mills)
Kinnard-Haines Co. (Hay Presses, etc.)
Minneapolis Plow Works (Plows)
Minneapolis Threshing Machine Co. (Threshers, Stackers, Corn Shellers, Baggers, etc.)
Monitor Drill Co. (Grain Drills, Cultivators, Seeders & Sowers)
Owens, J. L. Co. (Fanning Mills, Grain Cleaning Machinery)
Twin City Separator Co. (Fanning Mills)
OWATONNA—Owatonna Fanning Mill Co (Fanning Mills)
Owatonna Mfg. Co. (Grain Drills, Seeders & Sowers, Churns, etc.)
Sperry Mfg. Co. (Fanning Mills)
ST. LOUIS PARK—Martin, M. R. (Feeding Mills)
ST. PAUL — Anderson Company (Harrows, Rakes, Stackers, etc.)
Fosston Mfg. Co. (Wind Stackers)
Hackney Mfg. Co. (Hay Stackers, Forks, etc.)
SAUK CENTER—Keller Mfg. Co. (Harrows, Cultivators, Threshers, Fanning Mills, Sleds, etc.)
STILLWATER—Northwest Thresher Co. (Engines, Threshers, Stackers, Weighers, etc.)
WINONA — Diamond Huller Co. (Cottonseed Machinery, etc.)
New Winona Mfg. Co. (Feed Mills. Corn Shellers, Hay Presses, etc.)

## MISSISSIPPI.

JACKSON—McDonnell Machine & Foundry Co. (Plows, etc.)
MERIDIAN—Hyde, Chas. J. (Hay Presses, etc.)

## MISSOURI.

CAIRO—Boney, A. T. & Co. (Hay Stackers)
CHILLICOTHE—Jenkins Hay Rake & Stacker Co. (Feed Mills, Haying Tools, etc.)
GREEN CITY—Ideal Pump & Mfg. Co.
HUNTSVILLE—Fleming & Sons Mfg. Co. (Haying Tools, Rakes, Stackers, etc.)
INDEPENDENCE—Danielsen Implement Co. (Plows, Land Rollers, Harrows, Hay Stackers & Sweep Hay Rakes, etc.)
JONESBURG—Godfrey, H. M. (Walking Plows)
KANSAS CITY—Admiral Hay Press Co. (Hay Presses)
Eagle Mfg. Co. (Plows, Harrows, Cultivators, Listers)
Eclipse Hay Press Co. (Hay Presses, Stackers, Rakes, Stump Pullers, etc.)
Kansas City Hay Press Co. (Feed Mills, Hay Presses, Haying Tools, etc.)
Kirlin, L. Cultivator Co. (One & Two Row Disk Lister Cultivators)
Scott Hay Press Co. (Hay Presses)
Smith & Sons Mfg. Co. (Plows, Rakes, Hay Presses)
Tuller Cultivator Co. (Corn Cultivators)
Western Implement Mfg. Co. (Cultivators, Grain Drills
LINNEUS—Superior Hay Stacker Mfg. Co. (Hay Stackers)
MACON—McCall Mfg. Co. (Hay Rakes & Stack
OLNEY—Stroker, Fitz C. (Plows) ers)
ST. JOSEPH—Cartmell Machine Co. (Thresh ers, etc.)
McCargar, L. B. Feed Mill Co. (Grinding Mills, etc.)
St. Joseph Plow Co. (Plows, Cultivators, Harrows, etc.)
ST. LOUIS—Anderson, J. H. & Co. ("Boss" Hand Cultivator & Potato Digger)
Christen, F. & Sons (Seed Sowers, etc.)
Macgowan & Finigan Foundry & Machine Co. (Pulverizers & Rollers, Feed Grind
Myers, F. E. & Bro. ers, etc)
Seymour Mfg. Co. (Grain Cradles)
Weber Implement Co. (Mowers)
Whitman Agricultural Co. (Harrows, Grain Drills, Feed Mills, Corn Shellers, Seeders & Sowers, Feed Cutters, Hay Presses)
SEDALIA—Barley, Thos K. (Harrows, Haying Tools, etc.
SWEET SPRINGS—Fischer, Conrad (Harrows)
TARKIO—Midland Mfg. Co. (Plows, etc.)
UNIONVILLE—Stalcup Mfg. Co. (Hay Stackers)
WASHINGTON—Buhr Mfg. Co. (Plows)
WHEELING—Wright Rake & Stacker Co.

## NEBRASKA.

BEATRICE—Corn Belt Shredder Co.
Dempster Mill Mfg. Co. (Cultivators, Grain Drills, etc.)
DAVID CITY—Barker Mfg. Co. (Garden Weed ers)
LINCOLN—Nebraska Mfg. Co. (Potato, Corn & Cotton Planters)
NEBRASKA CITY—King Drill Mfg. Co. (Grain Drills

## NEW HAMPSHIRE.

ANTRIM—Goodell Co. (Hand Seed Sowers, Weed Diggers)
HINSDALE—Granite State Mowing Machine Co. (Mowers)

## NEW JERSEY.

GRENLOCH—Bateman Mfg. Co. (Plows, Harrows, Cultivators, Planters, etc.)
HIGHTSTOWN — Peppler, Thos. (Plows, Corn Shellers, etc.)
MILLINGTON—Nash, Duane H. (Pulverizers Harrows, Clod Crushers, Planters, etc.)
NEWTON—Farrell, John & Son (Hay Forks & Carriers
PHILLIPSBURG—Drinkhouse, F. F. (Feed & Fodder Cutters
RIVERTON—McWhorter Mfg. Co. (Seed Drills Bean, Peanut & Potato Planters
TRENTON — Butterworth, Wm. H. & Bro (Threshers, etc.)

## NEW YORK.

ALBANY—Dedericks, P. K. Sons (Hay Presses)
AUBURN—Bowen & Quick (Threshers, etc.)
International Harvester Co. of America (Cultivators, Harrows, Mowers & Reapers Rakes, Tedders, Binders, etc.), Osborne Plant (See Chicago, Ill
AVON—Champion Drill Co. (Cultivators, Grain Drills, etc.)
BATAVIA—Johnston Harvester Co. (Binders, Cultivators, Harrows, Mowers, Reapers Rakes, Tedders, Seeders & Sowers)
Wiard Plow Co. (Plows, Harrows, Rakes Planters, etc.)
BUFFALO—Buffalo Pitts Co. (Threshing Machinery, Plowing & Portable Engines, etc.)
CALEDONIA—Caledonia Bean Harvester Works (Cultivators, Planters, etc.)
CAMBRIDGE—Lovejoy Co. (Plows, Harrows, Cultivators, Planters, etc.)
CASTILE — Castile Chilled Plow Co. (Plows, Harrows & Cultivators)
CATO—Dutton, E. Q. & Co. (Plows, Hog Troughs, etc.)
CENTRAL BRIDGE—Campbell, S. K. Co (Threshers)
COBLESKILL — Harder Mfg. Co. (Threshers Fanning Mills, Manure Spreaders, etc.)
COPAKE IRON WORKS—Columbia Plow Works (Plows, etc.)
CORNING—Allen, E. R. Foundry Co. (Potato Diggers, etc.)
DANSVILLE—Sweet, George Mfg. Co. (Mowers & Reapers)
EAST AURORA—Peek, S. H. (Plows, Potato Planters & Diggers, etc.)
EAST ROCHESTER—Ontario Drill Co. (Grain Drills)
FULTON—Emeny, G. J. Co. (Feed Cutters)
FULTONVILLE — Fultonville Mfg. Co. (Hay Carriers)
GOWANDA — Gowanda Agricultural Works (Plows, Cultivators, etc.)
GREENE—Lyon Iron Works (Feed Cutters)
GREENWICH—Eddy, W. Plow Co. (Threshers, Plows, etc.)
HAMMOND — Evans Mfg. Co. (Harrows & Plows)
HILLSDALE—Mallery, W. A. Jr. (Plows, Harrows, etc.)
HONEOYE FALLS— Honeoye Falls Mfg. Co. (Bean Cleaners, etc.)
HOOSICK FALLS—Wood, Walter A. Mowing & Reaping Machine Co. (Harvesters, Binders, Harrows, Cultivators, Rakers, Mowers, Reapers, Tedders, Manure Spreaders, etc.)
ITHACA—Williams Bros. (Rakes, Broadcast Sowers, etc.)
KINGSTON — Hendricks, D. B. & Co. (Hay Presses)
LEONARDSVILLE—Babcock Mfg. Co. (Harrows, Cultivators, etc.)
LEROY—Leroy Plow Co. (Plows, etc.)
LOCKE—Robison, Geo. E. (Hay Rakes, etc.)
LYONS—Aul, Henry & Son (Fanning Mills)
Nagley Mfg. Co. (Tobacco Transplanters, Presses, etc.)
MACEDON—Bickford & Huffman Co. (Grain
MERIDIAN—Everts & Co. (Plows) Drills)
MOUNT MORRIS—Genesee Valley Mfg. Co. (Harrows, Grain Drills, Corn Shellers, Fanning Mills)
MUNNSVILLE—Munnsville Plow Co. (Plows)
OLEAN—Chamberlin Mfg. Co. (Stump Pullers)
OWEGO—Champion Wagon Co. (Grain Drills, etc.)
PHELPS—Crown Mfg. Co. (Grain Drills, etc.)
POUGHKEEPSIE—Adriance, Platt & Co. (Harrows, Mowers, Reapers, Binders, Rakes, etc.)
RIVERHEAD—Hudson, S. T. (Harrows)
ROCHESTER—Ricker Mfg. Co. (Hay, Feed & Litter Carriers)
ST. JOHNSVILLE—Clark Machine Co. (Threshers)
SCHENECTADY—Westinghouse Co. (Threshers, Stackers, Weighers)
SENECA FALLS—Gould Mfg. Co.
Rumsey & Co.
SHORTSVILLE—Papec Machine Co. (Feed Cutters)
Star Seeder Co. (Force Feed Wheelbarrow Grass Seeder)
SPENCERPORT—Ireland & Helfrich (Potato Diggers)
SYRACUSE—Engelburg Huller Co. (Rice Graders, Threshers, Separators, Hullers, Bean Hullers, etc.)
Syracuse Chilled Plow Co. (Plows. Harrows, Cultivators, Potato Hillers & Diggers, etc.)
TRUMANSBURG—Almy, Sam'l & Son (Rollers, Plows, etc.)
UTICA—Eureka Mower Co. (Cultivators, Mowers, Planters, etc.)
Munson Bros. Co. (Feed Mills)
Smith, D. B. & Co.
Standard Harrow Co. (Harrows, Cultivators, Corn Shellers, etc.)
WARSAW—**WARSAW ELEVATOR CO.** (Bean, Pea & Corn Planters, etc.) (See adv. index, end of book)
Warsaw-Wilkinson Co. (Ensilage, Feed & Fodder Cutters)
YOUNGSTOWN—Ripson, Wm. & Son (Plows, Harrows, Cultivators)

## NORTH CAROLINA.

CHARLOTTE—Cole Mfg. Co. (Cotton Planters)
Liddell Co. (Cotton Ginning, Cleaning & Baling Machinery, etc.)
GOLDSBORO—Wayne Agricultural Wks (Plows, etc.)
GREENSBORO—Glasscock Stove & Mfg. Co. (Feed Cutters)
NEWBERN—Oaks Mfg. Co. (Cotton & Corn Planters, Cultivators, etc.)

## OHIO.

AKRON—Akron Cultivator Co. (Cultivators, Harrows, Plows, Harvesters, Bean, Corn, etc.)
**WHITMAN & BARNES MFG. CO.** (Garden Cultivators, etc.) (See adv. index, end of book)
ASHLAND—**MYERS, F. E. & BRO.** (See adv. index, end of book)

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AVERY—Hoover Mfg. Co. (Potato Diggers & Sorters)
BELLEVUE—Jeschke Mfg. Co.
Ohio Cultivator Co. (Cultivators, Plows, Harrows, Planters, Listers, etc.)
BEREA—Dunham Co. (Harrows, Corn Shellers, etc.)
BOWLING GREEN—Ohio Implement Co.
Thornburgh, Mfg. Co. (Hay Loaders, Garden Cultivators, Plows, Drills, etc.)
BRYAN—Bryan Plow Co. (Plows, Harrows, etc.)
BUCYRUS—Shunk Plow Co. (Plows, Handy Steel Farm Wagons, etc.)
CANTON—Bucher & Gibbs Plow Co. (Plows, Harrows, Cultivators & Land Rollers)
Canton Foundry & Machine Co. (Hay Tools)
Dick, Jos. Mfg. Co. (Inc.) (Fodder Cutters, etc.)
Kohler, F. E. & Co. (Hand Corn Planters)
Ney Mfg. Co. (Hay Carriers, etc.)
Ney, V. L. Co. (Hay Carriers, etc.)
Swineford, G. A. Co. (Hay Carriers, etc.)
CINCINNATI—Blymyer Iron Works Co. (Coffee
Miller, L. J. & Rice Machinery, etc.)
Straub Machinery Co. (Feed Mills, Corn Shellers, etc.), 1940 W 6th
CLEVELAND — American Fork & Hoe Co. (Weeders, Grain Cradles, Forks, Hoes, etc.)
**BARTLETT, C. O. & SNOW CO.** (Feed Mills, Corn Shellers, etc.) (See adv. index, end of book)
Empire Plow Co. (Plows, Harrows, Cultivators, etc.). Works: Ensley, Ala.
COLDWATER—New Idea Spreader Co. (Manure Spreaders)
COLUMBIANA — Enterprise Mfg. Co. (Feed Mills etc.)
COLUMBUS — Kilbourne & Jacobs Mfg. Co. (Scrapers)
CRESTLINE—Burch Plow Wks Co. (Plows, etc.)
DAYTON—Ohio Rake Co. (Harrows, Hay Loaders, Planters, Rakes, Tedders, Corn Shellers, Seeders)
Parrott Mfg. Co. (Plows)
DOYLESTOWN—Sieberling & Miller Co. (Mowers, Reapers, Binders, Harvesters, etc.)
FINDLAY—Adams Bros. Co. (Plows)
FREMONT—Lehr Agricultural Co. (Cultivators, Harrows, etc.)
GALENA—Hughes & Smythe (Revolving Rakes, Corn Planters, etc.)
GERMANTOWN—Emrick, D. P. (Plows, Harrows & Tobacco Presses)
HAMILTON—Deuscher, H. P. Co. (Harrows, Pulverizers, Cultivators, Rakes, Planters)
**LONG & ALLSTATTER CO.** (Cultivators, Rakes, Harrows, Planters, Plows, Feed Cutters, etc.) (See adv. index, end of book)
HARRISON — Campbell Corn Drill Co. (Corn Drills, etc.)
HILLSBORO—Bell, C. S. Co. (Feed Mills, Cane Mills, etc.)
JACKSON—Jackson Mfg. Co. (Plows, Cultivators, etc.)
KENT—Peterson Mfg. Co. (Pulverizers & Clod Crushers)
LANCASTER—Eagle Machine Co. (Feed Mills, Hand Planters, Corn Shellers, Feed Cutters)
Hocking Valley Mfg. Co. (Corn Shellers, Hay Rakes, Tedders & Loaders, Feed Cutters)
MADISON — Genung, C. W. (Garden Seed Drills & Cultivators)
MALTA—Brown-Manly Plow Co. (Plows, Cultivators, etc.)
MANSFIELD—Aultman & Taylor Machinery Co. (Threshers, Stackers, Clover Hullers)
Lean, Roderick Mfg. Co. Co. (Harrows, Grain Drills, Cultivators, Weeders, Land Rollers & Potato Diggers, etc.)
Union Foundry & Machine Works (Corn & Cob Mills, Grinding Mills, etc.)
MARIA STEIN — New Idea Spreader Co. (Manure Spreaders)
MARIETTA—Marietta Mfg. Co. (Plows, etc.)
MARION—Huber Mfg. Co. (Threshers, Stackers, Weighers, Engines, etc.)
Implement Mfg. Co. (Hay Rakes)
MARTINSVILLE—West & Townsend (Cultivators)
MASSILLON—Russell & Co. (Threshers, Stackers, etc.)
MOUNT GILEAD—Mobile Implement Mfg. Co. (Garden Cultivators, Plows, etc.)
NAPOLEON—Heller-Aller Co. (Feed Cookers, Farm Boilers, Hog Scalders, Hog Waterers, etc.)
Napoleon Mfg. Co. (Threshing Machines, etc.)
NEWARK—Newark Machine Co. (Straw Stackers, Clover Hullers, Fanning Mills)
NEW BREMEN—Lanfersieck & Grothaus Co. (Plows)
NEW LEXINGTON—Star Mfg. Co. (Feed Mills & Powers, etc.)
NEW PHILADELPHIA—Spicer Mfg. Co. (Cultivators, etc.)
NORTH FAIRFIELD — Fairfield Plow Works (Plows)
ORRVILLE—Champion Thresher Co. (Harrows, Threshers, etc.)
PAINESVILLE—Vrooman, W. F. & Son (Onion Sorting & Topping Machinery)
PLYMOUTH—Root Bros. Co. (Hand Corn Shellers)
SALEM—Silver Mfg. Co. (Feed Mills, Feed Cutters)
SANDUSKY—Klotz Machine Co. (Corn Shellers, etc.)
SPRINGFIELD—American Seeding Machine Co. (Grain Drills, Seeders & Sowers Broadcast, Disk, Harrows, etc.)
Bayley, Wm. Co. (Feed Mills, Hand Grist Mills & Corn Shellers)
Buckeye Feed Mill Co. (Feed Mills, Corn Harvesters, etc.)
Duplex Mill & Mfg. Co.
Foos Mfg. Co. (Corn Harvesters, etc.)
International Harvester Co. of America. (See Chicago, Ill.)
Kelly, O. S. Co. (Feed Grinding Mills, etc.)
Mast, Foos & Co. (Lawn Mowers, Wind Engines, Pumps, etc.)
Roberts, Thos. (Feed Mills)
Ross, E. W. Co. (Feed, Fodder & Ensilage Cutters, Manure Spreaders, etc.)
Superior Drill Co. (Grain Drills)
Thomas Mfg. Co. (Grain Drills, Hay Loaders, Rakes, Tedders, etc.)
Victor Feed Mill Co. (Feed Mills)
SWANTON—Baker, A. D. Co. (Threshers)
TIFFIN—Tiffin Wagon Co. (Corn Shellers, etc.)
TOLEDO—Side Delivery Buncher Co. (Clover Bunchers & Hay Windrowers)
Toledo Plow Co. (Plows, Cultivators, etc.)
UPPER SANDUSKY — Ohio Mfg. Co. (Hay Presses, Feed Mills, etc.)
URBANA—Bechtolt, Geo. E. (Plows)
WAPAKONETA — Gunther & Lyman (Seed Cleaners & Separators, etc.)
WESTERVILLE—Bennett, H. L. & Co. (Corn Harvesters, Stump Pullers, etc.)
WEST MANCHESTER—Rollman, E. A. (Trans-Planting Machines)
ZANESVILLE—Brown Mfg. Co. (Plows, Harrows, Cultivators, etc.)

## OKLAHOMA.

OKMULGEE—Okmulgee Implement & Mfg. Co. (Alfalfa Cultivators)

## PENNSYLVANIA.

BEAVER DAM—Rowell, J. S. Mfg. Co. (Cultivators)
CARNEGIE—Carnegie Plow & Mfg. Co. (Plows, Pulverizers, Land Rollers, etc.)
CLEONA—Imboden Harrow & Roller Co. (Harrow & Land Roller Combined)
DOYLESTOWN — Doylestown Agricultural Works (Threshers, Fodder Cutters)
EASTON—Wilson Bros. (Feed Mills, Feed Cutters)
ELIZABETHTOWN — Buch's, A. Sons Co. (Corn Shellers, Fanning Mills, Feed Cutters)
ELYSBURG—De Shay D. H. (Corn Plows, Potato Diggers, etc.)
GREENCASTLE—Walk, Henry S. (Grain Cradles, Rakes, etc.)
HAMBURG — Hamburg Plow Works (Plows, Potato Diggers)
HARRISBURG—Reist, J. B. & Son (Fanning Mills)
INDIANA—Indiana Foundry Co. (Feed Cutters)
LANCASTER—Dellinger, A. M. (Feed Grinding Mills, etc.)
LANSDALE—Heebner & Sons (Threshers, Harrows, Feed Mills, Feed Cutters)
LERAYSVILLE—Bailey, E. Martin (Plows, etc.)
MECHANICSBURG—Comstock, Geo. S. (Rakes, Feed Cutters)
MIFFLINBURG—Albright, J. H. & Sons (Harrows, Cultivators, Rakes, Feed Cutters)
MOUNTVILLE — Mountville Mfg. Co. (Plows, Planters, Corn Shellers, etc.)
MUNCY—Sprout, Waldron & Co. (Feed Mills, Corn Shellers, etc.)
NEW HOLLAND—New Holland Machine Co. (Feed Mills)
NEW OXFORD—Weaver Mfg. Co. (Stock Troughs, Steel)
NORRISTOWN—Rittenhouse, C. & Sons
OAKHALL STATION — Sellers, Edward (Corn Planters, Feed Cutters & Land Rollers)
ORANGEVILLE—Connor, J. W. & Son (Feed Cutters, Harrows, Threshers, Separators, etc.)
PHILADELPHIA—Allen, S. L. & Co. ("Planet, Jr.," Cultivators, Planters, Seeders), Denckla bldg
Straub, A. W. & Co. (Feed Mills, etc.), 3737 Filbert
PITTSBURG—Ajax Mfg. Co. (Feed Grinding Mills, etc.), 848 Jackson, North Side
POTTSTOWN—Ellis Keystone Agricultural Wks (Threshers, Feed Cutters)
READING—Lessig, Chas. (Feed Cutters)
Lessig, Geo. D. (Feed Cutters)
TATAMY—Messenger Mfg. Co. (Planters, Tedders, Threshers, Feed Cutters)
WAYNESBORO—Frick Co. (Threshers, Stackers, Shellers, Traction Engines)
Geiser Mfg. Co. (Threshers, Plows, Weighers, Baggers, Clover Hullers, Tr. Engines)
YORK—Farquhar, A. B. Co. (Ltd.) (Threshers, Plows, Grain Drills, Feed Mills, Planters, Corn Shellers, Engines, Feed Cutters)
Flinchbaugh Mfg. Co. (Feed Mills)
Hench & Dromgold Co. (Plows, Harrows, Cultivators, Grain Drills, Feed Mills, Planters, Corn Shellers, Seeders, Feed Cutters, etc.)
Keystone Farm Machine Co. (Plows, Harrows, Cultivators, Feed Mills, Planters, Corn Shellers, Feed Cutters)
Root, B. M. Co. (Corn Planters)
Spangler Mfg. Co. (Harrows, Grain Drills, Planters, Feed Cutters)

## SOUTH CAROLINA.

BENNETTSVILLE — Star Pea Machine Co. (Pea Threshers, etc.)

## SOUTH DAKOTA.

SIOUX FALLS—Sioux Falls Plow Co.
WATERTOWN — Lee Bros. (Plows, Harrows, etc.)

## TENNESSEE.

CHATTANOOGA — Chattanooga Implement & Mfg. Co. (Hay Presses, Plows & Cultivators)
Chattanooga Plow Co. (Plows, Cane Mills, Evaporators, Cotton & Corn Planters, etc.)
Ross-Meehan Foundry Co. (Feed Cutters)
Sanders, Newell Plow Co. (Plows)
CLARKSVILLE—Patch, A. H. (Corn Shellers)
HARRIMAN—Harriman Mfg. Co. (Plows, Cotton Planters, Harrows, Feed Mills)
JACKSON—Wells-Jones Plow Co. (Plows)
MEMPHIS—Ellis, Wm. C. & Son (Cotton Seed Cleaners)

## TEXAS.

BRENHAM—Schurenberg, F. W. (Plows)
BRYAN—Chatham Machinery Co. (Feed Mills)
DALLAS—Murray Co. (Cotton Gins, Presses, etc.)
Southern Plow Co. (Plows, Cotton & Corn Planters, Harrows & Stalk Cutters, etc.)
Texas Disc Plow Co. (Plows)
Texas Implement & Machine Co. (Cotton & Corn Planters & Cultivators, etc.)
LONGVIEW—Kelly, G. A. Plow Co. (Plows)

## VERMONT.

BARTON—Murkland, Jno. W. (Plows)
BELLOWS FALLS—Derby & Ball (Grain Cradles)
BROOKFIELD—Peck, Clark & Co. (Drag Rakes, Agricultural Forks, etc.)
MIDDLETOWN SPRINGS—Gray's, A. W. Sons Threshers. etc.)
RANDOLPH—Sargent, Osgood & Roundey Co. (Cultivators, Plows, Potato Hillers, Corner Hay Racks, etc.)
ST. ALBANS—St. Albans Foundry & Implement Co. (Stump Pullers, Fodder Cutters, Threshers, etc.)
WOODSTOCK—Daniels Machine Co. (Feed Cutters)

## VIRGINIA.

ALEXANDRIA—May, Wm. H. & Son (Plows)
BRIDGEWATER—Bridgewater Plow Corp'n
CHARLOTTESVILLE—Harris, R. F. & Co.
FREDERICKSBURG—Hunter, Chas. E. Farmer's Friend Plow Works. (Plows)
LYNCHBURG—Lynchburg Foundry Co. (Plows)
Lynchburg Plow Works (Walking Plows)
NORFOLK—Billups, C. Son & Co. (Plows, Harrows, Cultivators, Corn Shellers, Fanning Mills)
White, S. R. & Bro. (Plows, Cultivators, Planters, Corn Shellers & Feed Cutters)
Whitehurst, R. W. Co. (Plows, Hay Presses)
PETERSBURG—Ayers, J. R. (Peanut & Cotton Planters, etc.)

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RICHMOND—Call-Watt Co. (Plows)
Cardwell Machine Co. (Threshers, Planters, Feed Cutters, Horse Powers, Hay Presses)
Starke's Dixie Plow Works (Ashton Starke, Prop.) (Plows, etc.)
STAUNTON—Leader Plow Co. (Garden Plows)
SUTHERLIN—Kerns, H. O. (Plows)

## WASHINGTON.

WALLA WALLA—Hunt, G. Co. (Threshers)
Washington Weeder Works (Disk Weeder Cultivators)

## WEST VIRGINIA.

WHEELING—Thomas Steel Co. (Stamped Steel Seats)

## WISCONSIN.

APPLETON—Becker, J. E. (Plows)
Double Power Wind Mill Co. (Feed Mills & Corn Huskers)
Eagle Mfg. Co. (Ensilage & Fodder Cutters)
BEAVER DAM—Beaver Dam Mfg. Co. (Seeders)
Bowell, J. S. Mfg. Co. (Cultivators, Grain Drills, Rakes, Seeders, Fanning Mills)
BELOIT—Thompson, J. & Sons Mfg. Co. (Plows, Harrows, Cultivators, Listers, etc.)
BRANDON—Sherwin, E. C. & Son (Harrows)
BRILLION—Brillion Iron Works (Plows, Clod Crushers & Land Rollers)
CUDAHY—Steitz, J. R. (Potato Planters, etc.)
EAU CLAIRE — Anderson Mfg. Co. (Plows Harrows, etc.)
Northwestern Steel & Iron Works (Cultivators, Plows, Harrows, etc.)
EVANSVILLE — Baker Mfg. Co. (Feed Mills, Windmills, etc.)
FOND DU LAC—Fond du Lac Implement Co. (Harrows, Grain Drills, Rakes, Seeders)
Glasow, Fred. (Plows)
FORT ATKINSON—Kent Mfg. Co. (Hand Potato & Corn Planters)
Founder, Geo. H. (Harrows)
HARTFORD—Hartford Plow Co. (Plows, Harrows, Cultivators, Feed Cutters)
HORICON—Van Brunt Mfg. Co. (Cultivators, Grain Drills, Seeders, etc.)
JANESVILLE—Janesville Machine Co. (Grain Drills, Plows, Harrows, Cultivators, Mowers, Listers, etc.)
Kent Corn Planter Co. (Corn Planters, etc.)
Strickler Hay Tool Co. (Haying Tools)
JEFFERSON — Vaugan Mfg. Co. (Harrows, Grain Mills, etc.)
KAUKAUNA—Solar Mfg. Co. (Fanning Mills)
KEWAUNEE—Hamacek, Frank (Plows, Feed Mills, Feed Cutters)
LA CROSSE—City Plow Co. (Plows, etc.)
Egan Mfg. Co. (Potato Diggers)
La Crosse Plow Co. (Plows, Harrows, Cultivators, Grain Drills, Listers, Seeders)
Smith, W. Grubber Co. (Stump Pullers)
Smith Mfg. Co. (Stump Pullers)
MADISON—American Plow Co. (Plows, Cultivators, etc.)
Fuller & Johnson Mfg. Co. (Plows, Harrows, Cultivators, Planters, Rakes, etc.)
Genung, C. W. (Weeders)
MANITOWOC — Gaterman Mfg. Co. (Canada Thistle Cutters & Clover Bunchers)
Smalley Mfg. Co. (Corn Shellers, Plows, Feed Cutters)
MARINETTE—Stevens Mfg. Co. (Potato Harvesters, Potato Spreaders, Weed Killers)
MAYVILLE—Zilisch, A. T. (Harrows, Feed Cutters)
MENOMONEE FALLS — Rowell, I. B. Co (Plows, Harrows, Cultivators, Feed Cutters)
MILWAUKEE—Dorsch, John & Sons (Potato Hiller & Digger Combined)
Hirsch Bros. (Potato Planters, Root Cutters, etc.)
Lindsay Bros. (Band Cutters & Self Feeders)
Milwaukee Hay Tool Co. (Corn Huskers Fodder Shredders & Haying Tools)
PORT WASHINGTON—Rosenthal Corn Husker Co. (Feed Mills, etc.)
Turner Mfg. Co. (Feed Mills, etc.)
RACINE—Belle City Mfg. Co. (Feed & Ensilage Cutters, etc.)
Case, J. I. Plow Works (Plows, Harrows, Cultivators, Planters, Listers, etc.)
Case, J. I. Threshing Machine Co. (Threshers, Stackers, Weighers, etc.)
Dickey, E. P. Fanning Mill Co. (Fanning Mills, etc.)
Foster & Williams Mfg. Co. (Drag Rakes, Seeders, Fanning Mills, Feed Cutters)
Freeman, S. & Sons Mfg. Co. (Corn Shellers, Seeders, Fanning Mills, Windmills, Feed Cutters, etc.)
Johnson & Field Mfg. Co. (Seeders, Fanning Mills, Land Rollers, etc.)
Racine Sattley Co. (Plows, Cultivators, Drills, Harrows, etc.)
Wabers, H. H. Mfg. Co. (Hand Corn & Potato Planters)
RIPON—Hazen, Wayne S. (Harrows)
SHEBOYGAN—Blocki, F. Co. (Clover Bunchers, Pea Harvesters, etc.)
Globe Foundry & Machine Co. (Feed Mills & Feed Cutters)
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co. (Haying Tools, etc.)
SPARTA—Sparta Iron Works Co. (Stump Pullers)
SUPERIOR—Duplex Mfg. Co. (Feed Mills, etc.)
WATERLOO—Drew Elevated Carrier Co. (Feed & Litter Carriers)
WAUPUN—Althouse-Wheeler Co. (Feed Mills, Olson, O. C. (Plows) etc.)
WAUSAU—Wausau Foundry & Machine Shops (Feed Cutters)
WEST ALLIS—Rosenthal Husker Co. (Huskers & Shredders "Corn")
WEST BEND—Gehl Bros. Mfg. Co. (Feed & Fodder Cutters, Corn Shellers, Hay Tedders, Harrows, etc.)
Young Loader Co. (Manure Loaders)

## 47—Agricultural Implement Parts & Shapes

American Shovel & Stamping Co., Lorain, O.
Empire Plow Co. (Cultivator, Attachments, Clevises, Coulters, Grain Drill Points, etc.), Cleveland, O.
Havana Metal Wheel Co. (Plow Shares, Points, Lister Shares, Sub-Soilers, etc.), Havana, Ill.
Mason, F. C. & Co. (Potato Digger Blades, Harrow Shoes, etc.), St. Johns, Mich.

## 47a—Air Brake Storage System

**WESTINGHOUSE TRACTION BRAKE Co., Pittsburg, Pa.**

## 48— Air Chambers (Seamless Copper)

Hercules Float Works, Springfield, Mass.
**Naugatuck Mfg. Co.**, Naugatuck, Conn.

## 48a—Air Cooling & Purifying Apparatus

(See also Humidifying Apparatus)

**THOMAS & SMITH (Inc.) ("Thomas-Acme" System), 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)**

## Air Hoists

(See Pneumatic Hoists)

## 48b—Airlocks (Sewerage, Automatic)

**MERRITT & CO., 93 Arch, Camden, N. J. (See adv. index, end of book)**

## 49— Airmeters

Taylor Instrument Companies ("Tycos"), Rochester, N. Y.

## 49a—Air Motors & Air Hoisting Machinery

**DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)**

AIR MOTORS & AIR HOISTING
Machinery
DETROIT HOIST & MACHINE CO
DETROIT, MICH.

## 50— Air Receivers

American Air Compressor Works, 26 Courtlandt, New York
Bury Compressor Co., Erie, Pa.
Casey-Hedges Co., Chattanooga, Tenn.

**CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**
**CLAYTON AIR COMPRESSOR W'KS, B'way & Cedar, New York. (See adv. index & branch offices, end of book)**
Eagle Foundry & Machine Co., Fort Scott, Kan.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)**
**GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index & branch offices, end of book)**
**INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)**
**KEWANEE BOILER CO., Kewanee, Ill. (See adv. index & branch offices, end of book)**
**KITTOE BOILER & TANK CO. (Inc.), Canton, O. (See adv. index, end of book)**
**KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)**
**LAIDLAW-DUNN-GORDON CO., B'way & Cedar, New York. (See adv. index & branch offices, end of book)**
**LEADER IRON WORKS, Decatur, Ill. (See adv. index & branch offices, end of book)**
Leyner, J. Geo. Eng. Works Co., Littleton, Colo.
McKiernan Drill Co., 170 B'way, New York
**MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)**
**PETROLEUM IRON WORKS CO., Sharon, Pa. (See adv. index & branch offices, end of book)**
**POWER & MINING MACHINERY CO., B'way & Cedar, New York. (See adv. index & branch offices, end of book)**
**RYERSON, JOSEPH T. & SON, 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)**
**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)**
**SULLIVAN MACHINERY CO., Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices end of book.**
Underwood, H. B. & Co., 1025 Hamilton, Phila., Vulcan Iron Works, Wilkes-Barre, Pa. Pa.
**WHEELER CONDENSER & ENGINeering Co. ("Wheeler Improved"), Carteret, N. J. (See adv. index & branch offices, end of book)**
Wilks, S. Mfg. Co., 35th, c Shields av, Chicago, Ill.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)**

## 51— Alarms (Burglar)

Ansonia Electrical Co., Ansonia, Conn.
Benjamin, Geo. P. 81 Fulton, New York
**Bunnell, J. H. & Co., Park pl. & Church, New York**
Defiance Burglar Alarm Co. ("Defiance"), Spangler, Pa.
Electric Goods Mfg. Co., 144 Pearl, Boston, Mass.
**Garl Electric Co., Akron, O.**
**Heath Electric Co., 36 Grand River av, Detroit, Mich.**
Herzog Teleseme Co., 137 W 23d. New York
Holmes Elec. Prot've Co., 26 Cortlandt, N. Y.
Holtzer-Cabot Electric Co., Brookline, Mass.
McCormick Mfg. Co., Dayton, Ohio
**Manhattan Electrical Supply Co., 17 Park pl, New York**
Ostrander, W. R. & Co., 22 New York.
Patrick, Carter & Wilkins Co., 122 N 11th, Phila, Pa.
Pearce, Frederick Co., 18 Rose, New York
Standard Elec. Supply Co., 37 Warren, New York
Stanley & Patterson ("S. & P." Double Magnet), 23 Murray, New York
Star Electric Co., Binghamton, N. Y.
**United Electric & Apparatus Co., 200 Summer, Boston, Mass.**
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilcox, L. M., 219 Market, Newark, N. J.

## 52— Alarms (Burglar System)

American Bank Protection Co., Minneapolis, Minn.
Burke Electric Co., 204 Dearborn, Chicago, Ill.
Holmes Electric Protective Co., 26 Cortlandt, New York
Invincible Electric Bank Protection Co., Monroe, Wis.
Reliance Electric Co., 1135 W Washington, Chicago, Ill.

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## 53—Alarms (Fire, Manual & Automatic Systems)

Boston Fire & Police Notification Co. ("Wall"), 60 State, Boston, Mass.
**Bunnell, J. H. & Co., Park pl & Church, New York**
Dean Electric Co., Elyria, Ohio
Denio General Electric Co., Rochester, N. Y.
Edwards & Co., 140th & Exterior, New York
Foote, Pierson & Co., 160 Duane, New York
Gameweli Fire Alarm Telegraph Co., 19 Barclay, New York
**Garl Electric Co., Akron, O.**
McFell Electric Co., 565 W Van Buren, Chicago, Ill.
Manhattan Fire Alarm Co., 19 Barclay, New York
**National Electric Works ("National"), 46 Van Buren, Chicago, Ill.**
Patrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Reliance Instrument Co. ("Willis"), 1135 W Van Buren, Chicago, Ill.
**Signalphone Co., Milwaukee, Wis.**
Special Fire Alarm Electric Signal Co., 44 E 23d, New York
Star Electric Co., Binghamton, N. Y.
**Stephens, Geo. M. Co., Boston, Mass.**
Utica Fire Alarm & Telegraph Co., Utica, N. Y.
Viaduct Electric Co., Relay, Md.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune. New York

## 54—Alarms (Fire, Thermostatic & Automatic Systems)

American Electric Fire Alarm & Mfg. Co., Pittsburg, Pa.
Boston Automatic Fire Alarm Co., Boston Mass.
Boston Fire & Police Notification Co. ("Wall"), 60 State, Boston, Mass.
**Bunnell, J. H. & Co., Park pl & Church, New York**
Manhattan Electrical Supply Co., 17 Park pl., New York
Milwaukee Automatic Fire Service Co., Wilwaukee, Wis.
Montauk Fire Detecting Wire Co., 100 William, New York
**Murphy Specialty Co., Detroit, Mich.**
**Star Electric Co., Binghamton, N. Y.**
Vierkant, H. C., Tarrytown, N. Y.

## Alarms (Highway Crossing)

(See Signals, Railway Crossing)

## 55— Alarms (Low Water, for Boilers)

Ashcroft Mfg. Co., 85 Liberty, New York
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Binghamton Machine Tool Works ("The Turner"), Binghamton, N. Y.
Buckeye Iron & Brass Works, Dayton, O.
Burrows Mfg. Co. ("Burrows" High & Low), York, Pa.
Chicago Engineering Supply Co. ("Acme"), 112 Lake, Chicago, Ill.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Erie Mfg. & Supply Co. ("Aardwick"), Erie, Pa.
Ferguson Mfg. Co. ("Wiltbanco"), 221 Columbus av, Boston, Mass.
Hills-McCanna Co., 153 W Kinzie, Chicago, Ill.
Illinois Malleable Iron Co., 1801 Diversey boul., Chicago, Ill.
**Jarvis Engine & Machine Works ("Jarvis"), Lansing, Mich.**
Jones Automatic Low Water Alarm Co., Detroit, Mich.
Kirchner, P. A. Boiler Alarm Co., Ft. Wayne, Ind.
Kitts Mfg. Co. (High & Low Pressure), Oswego, N. Y.
Lawler Regulator Co., 473 W B'way, New York
Lonergan, J. E. & Co. ("Reliable"), 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Monash-Younker Co. ("Gem," "Signal"), 1407 W Jackson blvd. Chicago, Ill.
Reliance Gauge Column Co., Cleveland, O.
Ross Steam Specialty Co., 90 West, New York
Rutzler, E. Co., 404 E 49th, New York
Sims Co., Erie, Pa.
Steigert, Leopold (Also for High Water, The "U. S." Indicator), Cincinnati, O.
Williams Gauge Co., Pittsburg, Pa.
Wright Mfg. Co., Detroit, Mich.

## 56— Alarms (Puncture)

**Baldwin Chain & Mfg. Co., Worcester, Mass.**
**Worcester Auto Exchange, Worcester, Mass.**

## 56a— Albumenometers

Tagliabue, Chas. J. Mfg. Co. ("Esbash's"), 396 B'way, New York

## 57— Alcohol (Denatured)

Adams, Fred C. (Mfrs.' Agt.), 702 W Division, Chicago, Ill.
Berry Bros. (Ltd.), Detroit, Mich.
Boyd, F. O. & Co., 433 Washington, New York
**Commercial Distilling Co., Terre Haute, Ind.**
Gray, Wm. S. & Co., 76 William, New York
**Harshaw, Fuller & Goodwin Co., Cleveland, O.**
**Merrimac Chemical Co., Boston, Mass.**
National Denatured Alcohol Co., Marshalltown, Ia.
Pierce & Stevens, Buffalo, N. Y.
Sholes, Chas. E. Co., 164 Front, New York
United States Industrial Alcohol Co. ("Pyro"), 100 William, New York
Webb, A. L. & Sons, Baltimore, Md.
Woolner & Co., Peoria, Ill.

## 58— Alcohol (Grain)

**Clifton Springs Distilling Co., Cincinnati, O.**
Fleischmann Co., Cincinnati, O.
**Webb, Jas. A. & Son, 50 Stone, New York**

## 59— Alcohol (Wood)

Alton Chemical Co., Bradford, Pa.
Antrim Chemical Co., Detroit, Mich.
Bartley, John & Co., Alton, Pa.
Bayless, J. & F. J., Binghamton, N. Y.
Beerston Acetate Co., Olean, N. Y.
Berry Bros. (Ltd.), Detroit, Mich.
**Boyne City Chemical Co., Boyne City, Mich.**
Buckhannon Chemical Co., Olean, N. Y.
**Cadillac Chemical Co., Cadillac, Mich.**
**Cleveland Cliffs Iron Co., Cleveland, O.**
**Cooper, Chas. & Co., 194 Worth, New York**
**Corbett, M. J. & Co., Binghamton, N. Y.**
Coryville Chemical Co., Bradford, Pa.
**Cummer, Diggins & Co., Cadillac, Mich.**
Desmond, F. C., Traverse City, Mich.
Forest Chemical Co., Sheffield, Pa.
**Gaffney Bros., Olivedale, Pa.**
Gray Chemical Co., Alleghany, Pa.
Hastings Chemical Co., Hastings, Me.
Heineman Chemical Co., Newerf, Pa.
**INTERNATIONAL SMOKELESS POWder & Chemical Co., 140 Cedar, New York**
James Mfg. Co., Kane, Pa.
**Lake Superior Iron & Chemical Co., Detroit, Mich**
Leighton, Arthur Co., Methol, N. Y., & Cook Falls, N. Y.
Lewis Run Mfg. Co., Bradford, Pa.
Marvindale Chemical Co., Bradford, Pa.
Maryland Wood Products Co., Bradford, Pa.
**McKean Chemical Co. (Wood Spirits), Williamsport, Pa**
Mashek Chemical & Iron Co. (Refined), Wells.
Merrimac Chemical Co., Boston, Mass. Mich.
**Michigan Chemical Co., Bay City, Mich.**
Nansen Chemical Co., Nansen, Pa.
Nant-Y-Glo Chemical Co., Nant-Y-Glo, Pa.
National Chemical Co., Bradford, Pa.
Newton Chemical Co., Olean, N. Y.
Noble Electric Steel Co., 350 Post, San Francisco, Cal.
Nusbaum Chemical Co., Bradford, Pa.
Oswaygo Chemical Co., Bradford, Pa.
Oswego Chemical Co., Bradford, Pa.
Otto Chemical Co., Williamsport, Pa.
Pierce & Stevens, Buffalo, N. Y.
Russell Chemical Co., Russell, Pa.
Salomon, L. A. & Bro., 216 Pearl, New York
Sholes, Chas. E. Co., 164 Front, New York
Smith, A. B. Chemical Co., Buffalo, N. Y.
Wood Products Co. (Pure Methyl & Refined) Buffalo, N. Y.
Wright Chemical Co., Susquehanna, Pa.
**Wyman Chemical Co., Port Alleghany, Pa.**
Young, W. D. Chemical Co., West Bay City Mich.

## 59a— Alcohol (Wood) Plants

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 60— Alizarine Assistant

Shaw, Jno. & Co., Boston, Mass.

## 61— Alkali Mfrs.

American Alkali & Acid Co., Bradford, Pa.
**American Chemical Co., Cincinnati, O.**
Apothecaries Hall Co., Waterbury, Conn.
Clark, Fred G. Co., Cleveland, O.
**Columbia Chemical Co., Barberton, O.**
Fuerst Bros & Co., 2 Stone, New York
Hollingsworth & Peterson, Lafayette bldg, Phila., Pa.
**Kansas Chemical Mfg. Co. (Ammonia Process), Hutchinson, Kan.**
**Kentucky Refining Co., Louisville, Ky.**
Linder & Meyer, Boston, Mass.
**Mathieson Alkali Works ("Eagle" & "Thistle" Brands), Providence, R. I.; Works: Saltville, Va.**
**Michigan Alkali Co., Wyandotte, Mich.**
Niagara Alkali Co., Niagara Falls, N. Y.
Royal Chemical Co. ("Royal" Powder, will remove Vienna Lime from Buffed or Polished Work), Phenix, R. I.
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
Wing & Evans, 22 William, New York
Winkler, Isaac & Bro., Cincinnati, O.

## 62— Alligraphy

**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)

## Alloys (Aluminum)

(See Ferro-Aluminum)

## 63— Alloys (Bassite)

Bassite Smelting & Mfg. Co. (For Brass Founders), Cincinnati, O.

## 64— Alloys (Copper & Nickel)

Benedict & Burnham Mfg. Co., Waterbury,
Electrical Alloys Co., Morristown, N. J. Conn.
**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)
Nassau Smelting & Refining Works, 607 W 29th, New York

## Alloys for Steel Mfrs.

(See Ferro Alloys of Various Kinds)

## 65— Alloys (Gold & Silver)

Hagstolz, T. B. & Son, 709 Sanson, Phila., Pa.
Ney, J. M. Co., Hartford, Conn.

## 66— Alloys (Iridium)

**AMERICAN PLATINUM WORKS (Any** Grade of Hardness), Chestnut st & N. J. R. R. av, Newark, N. J. (See adv. index, end of book)

## 66a— Alloys Magnesium)

**LEAVITT, C. W. & C., 34 Church** New York. (See adv. index, end of book)

## Alloys (Manganese)

(See Ferro Manganese, Etc.)

## 67—Alloys (Manganese Bronze)

American Manganese Bronze Co. ("Spare's" White, Hydraulic, etc.), 99 John, New York

## 68— Alloys (Phosphor Bronze)

Brady Brass Co., 200 10th, Jersey City, N. J.
Empire Metal Co., Syracuse, N. Y.
Phosphor Bronze Smelting Co. (Ltd.) ("Elephant" Brand), 2200 Wash'n av, Phila., Pa.

## Alloys (Silicon)

(See Ferro Manganese & Ferro Silicon)

## Alloys (Vanadium)

(See Ferro-Vanadium)

## 69— Alloys (White Metal)

Eagle Smelting & Refining Works, 734 E 14th, New York
Electric Smelting & Aluminum Co. ("Cowles"), Lockport, N. Y.
Empire Metal Co., Syracuse, N. Y.
Enterprise Metal Co., Syracuse, N. Y.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

## 69a—Alphabetical & Changeable Directories

**TABLET & TICKET CO., 541-553** Jackson boul. Chicago. Ill. (See adv. index & branch offices, end of book)

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## Alphabets & Figures (Steel)
(See Stencils)

## Altars
(See Marble Altars; also Furniture, Church & Lodge)

## Alum
(See Alums)

## 70— Alumica
Loos & Dilworth, 134 S Front, New York

## 71— Alumina
Harrison Bros. & Co. (Inc.) (Sulphate), 35th & Gray's Ferry rd, Phila., Pa.
Cochrane Chemical Co. (Chloride, Sulphate, etc.), Boston, Mass.
Continental-American Ore Co. (Ores), Boston, Mass.
General Chemical Co. (Sulphate & Chloride) 25 Broad, New York
Merrimac Chemical Co. (Chloride, Sulphate, Hydrate, Acetate, etc.), Boston, Mass.
Penna. Salt Mfg. Co. (Sulphate, Hydrate, etc.), 115 Chestnut, Phila., Pa.
**SCHULE, F. H. CO. (Hydrate), 114-** 118 Liberty, New York. (See adv. index, end of book)
Winckler, Isaac & Bro. (Sulphate), Cincinnati, Ohio

## 72— Aluminite
Cawn Mining & Mfg. Co., Canton, O.
Stowe-Fuller Co., Cleveland, O.

## 72a— Alumino-Vanadium
**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 73— Aluminoid
National Wire Cloth Co., Niles, Mich.

## 74— Aluminum
Aluminum Company of America, Pittsburg, Pa.
Beer, Sondheimer & Co., 42 B'way, New York
Electric Smelting & Aluminum Co., Lockport, N. Y.
Guiterman, Rosenfeld & Co., 35 S William New York
Kroenert Smelting & Refining Co., Pittsburg, Pa.
U. S. Reduction Co., 315 Dearborn, Chicago, Ill.

## 75— Aluminum Flake
Aluminum Flake Co., Akron, O.

## 76— Aluminum (Granulated)
Janney, Steinmetz & Co., Phila., Pa.

## 77— Aluminum Hollow Ware
Aluminum Company of America, Pittsburg, Pa.
Aluminum Cooking Utensil Co. ("Wear-Ever"), New Kensington, Pa., & 99 John, New York
American Aluminum Mfg. Co., Lemont, Ill.
Buckeye Aluminum Co. ("Perfection"), Doylestown, O.
Central Stamping Co. ("Sterling" Enameled), 174 Fulton, New York
Eagle Aluminum Co., Eagle River, Wis.
Griswold Mfg. Co. ("Erie"), Erie, Pa.
Illinois Pure Aluminum Co., Lemont, Ill.
National Aluminum Works ("Perfection"), Wellsville, N. Y.
Republic Metalware Co., Buffalo, N. Y.
Standard Aluminum Mfg. Co., Two Rivers, Wis.
United States Aluminum Co., Pittsburg, Pa.
Wagner Mfg. Co., Sidney, O.

## 78—Aluminum Household & Toilet Specialties
Aluminum Goods Mfg. Co., Manitowoc, Wis.

## 79— Aluminum (Liquid)
Michigan Stove Co. ("Garland"), Detroit, Mich.

## Aluminum Novelties
(See Metal Novelties & Specialties)

## 80— Alums
Baker & Adamson Chemical Co., Easton, Pa.
Cochrane Chemical Co. (Porous, etc.), Boston, Mass.
Detroit Chemical Works, Detroit. Mich.
Fuller & Fuller, 220 Randolph, Chicago, Ill.
General Chemical Co. (Sulphuris), 25 Broad, New York
Harrison Bros. & Co. (Inc.), Phila., Pa.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Kuttroff, Pickhardt & Co., 128 Duane, New York
Lening, Chas. & Co., 112 S Front, Phila., Pa.
Mallinckrodt Chemical Works, St. Louis, Mo.
Merrimac Chemical Co. Boston, Mass.
Penna. Salt Mfg. Co. (Crystal, Natrona Por ous), 115 Chestnut, Phila., Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
Thomsen Chemical Co., Baltimore, Md.
Winkler, Isaac & Bro., Cincinnati, Ohio
Wiarda, John C. & Co., 273 Green, Brooklyn, N. Y.

## 81— Alundum for Polishing
Norton Co., Worcester, Mass.

## 82—Alundum & Corundum Wheels
Norton Co., Worcester, Mass.

## 83— Amalgam
Metals Buying & Refining Co. (Refiners), San Francisco, Cal.

## 84—Amalgamating Pans & Barrels
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams, Chicago Heights, Ill.
Hendy, Joshua Machine Works, San Francisco, Cal.
Krogh Mfg. Co. ("Acme" for Beach Sands), San Francisco, Cal.
**MacKINNON BOILER & MACHINE Co.,** Bay City, Mich. (See adv. index, end of book)
Mill & Smelter Engineering Co., 114 Liberty, New York
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.
Pierce, L. S. ("Pierce" Gold Separator & Amalgamator), 1650 Champa, Denver, Colo.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Traylor Engineering Co., Allentown, Pa.
Union Iron Works Co., Potrero, San Francisco Cal.

## 85—Amalgamating Sheets (Silver Plated)
Baltimore Copper Smelting & Rolling Co., Baltimore, Md.

## 86— Ambulances
Birch, James H., Burlington, N. J.
Fulton & Walker Co., 20th & Filbert, Phila.
Kiblinger, W. H. Co., Auburn, Ind. Pa.
Rech-Marbaker Co. (Combination Patrol & Ambulance), Philadelphia, Pa.
Studebaker Bros. Mfg. Co., South Bend, Ind.

## 86a—Ammeters (Shunt, "Wm. H. Bristol's" Recording)
**BRISTOL CO., Waterbury, Conn., &** 114 Liberty, New York. (See adv. index & branch offices, end of book)

## 87— Ammeters & Voltmeters
(Those who Manufacture Battery Gauges are so Indicated following their names)
Baird Mfg. Co. (Battery Gauges), 3145 North Halsted, Chicago, Ill.
**BRISTOL CO. ("Bristol's" Record-** ing), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Clark Electric Meter Co., 126 South Clinton, Chicago, Ill.
Columbia Meter Co., Indianapolis, Ind.
Connecticut Telephone & Electric Co. (Inc.) (Battery Gauges), Meriden, Conn.
Dongan Instrument Co (Direct & Alternating), Detroit, Mich.
Dow Mfg. Co. (Battery Gauges), Braintree, Mass.
Duncan Electric Mfg. Co. ("Duncan" Direct & Alternating Current), La Fayette, Ind.
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York
Eager Electric Co., Watertown, N. Y.
Easton Carbon Works (Battery Gauges), Jersey City, N. J.
Eldridge Electric Mfg. Co. (Also Battery Gauges), Springfield, Mass.
Esterline Co., Inc. ("Esterline", Recording), Lafayette, Ind.
Etna Electric Works, 145 E 23d, New York
Fort Wayne Electric Works (Inc.), (Wood), Fort Wayne, Ind.
**GENERAL ELECTRIC CO. (Record-** ing & Indicating Voltmeters), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Hanson & Van Winkle Co. ("The H. & V. W.") 219 Market, Newark, N. J.
Hoyt Electrical Instrument Works (For Direct Current, also Battery Gauges), Penacook, N. H.
International Electric Meter Co., 342 N Sheldon, Chicago, Ill.
International Instrument Co., Cambridge, Mass.
Jewell Electrical Instrument Co. ("Jewell" Dead-Beat Portable & Switchboard Type), 810 Lake, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO. ("Vic-** tor"), 100 Willlam, New York. (See adv. index & branch offices, end of book)
Kendrick & Davis (The K. & D.), Lebanon, N. H.
Kent Atwater Mfg. Works (Battery Gauges), 46 N 6th, Phila., Pa.
Keystone Electrical Instrument Co. (Also Battery Gauges), 9th & Montgomery av, Philadelphia, Pa.
King, Julius Optical Co. (Battery Gauges), 10 Maiden la., New York
Knott, L. E. Apparatus Co., 15 Harcourt, Boston, Mass.
Manhattan Electrical Supply Co. ("Ditmar," "Universal," 'Elite," Battery Gauges), 17 Park pl., New York
Motor Car Supply Co. ("Van Sickle." Battery Gauges), 1453 Michigan av, Chicago, Ill.
Never Miss Spark Coal Co. (Battery Gauges), Lansing, Mich.
Norton, Chas. Electrical Instrument Co., Manchester, Conn.
Oakes & Dow Co. ("Sherman," Battery Gauges), Boston, Mass.
Pierson-Wilcox Elec. Co. (Battery Gauges), Minneapolis, Min.
Pignolet, Louis M. (Continuous Current), 80 Cortlandt. New York
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Read-Rite Meter Works ("Read-Rite, Pocket & Miniature Battery Testing), Bluffton, O.
Reliance Instrument Co. ("Reliance"), 1135 W Van Buren, Chicago, Ill.
Roller-Smith Co. (Also Battery Gauges), 203 B'way, New York; Works: Bethlehem, Pa.
Sangamo Electric Co. ("Sangamo", Direct Current), Springfield, Ill.
Standard Electric Time Co. ("The Warner," Battery Gauges), Waterbury, Conn.
Sterling Electric Mfg. Co. (Battery Gauges), Cleveland, O.
Wagner Electric Mfg. Co., St. Louis, Mo.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Direct & Alternating Current), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 88— Ammonia
Armitage Mfg. Co., Richmond, Va.
Armour Ammonia Works (Anhydrous), 3130 Benson, Chicago, Ill.
Baker & Adamson Chemical Co. ("C. P."), Easton & McKeesport, Pa.
Banner Mfg. Co., Detroit. Mich.
Barrett Mfg. Co. (Anhydrous & Aqua), Land Title bldg, Phila., Pa.
Billings-Clapp Co., 178 Freeport, Dor, Boston, Mass.
Bower, Hy. Chemical Mfg. Co. (Anhydrous & Aqua), 29th & Gray's Ferry rd, Phila., Pa.
Butterworth-Judson Co. (Aqua), Newark, N. J.
Clapp, B. P. Ammonia Co., Louisville, Ky.
Cochrane Chemical Co. (Aqua, Anhydrous), Boston, Mass.
Columbia Chemical Co. (Parsons), 43 Sedgwick, Brooklyn, N. Y.
Consumers Ammonia Co., (Anhydrous), 143 N Front, Phila., Pa.
Contact Process Co., Buffalo, N. Y.
Grasselli Chemical Co. (Aqua), Arcade bldg, Cleveland, O.

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General Chemical Co. (Anhydrous & Aqua), 25 Broad, New York
Harrison Bros. & Co. (Aqua), S 35th & Gray's Ferry rd, Phila., Pa.
Harshaw, Fuller & Goodwin Co. (Carbonate, Muriate). Cleveland, O.
Hecla Compressed Gas Co. (Anhydrous), Chelsea, Mass.
Herf & Frerichs Chemical Co. (Anhydrous & Aqua), St. Louis, Mo.
Hirsh, Leon & Sons (Anhydrous in Cylinders), 368 Greenwich. New York
Indianapolis Gas Co., Indianapolis, Ind.
Kalbfleisch, Franklin H. Co. (Aqua), B'way & 16th, New York
Lister's Agr'l Works (Sulphate), 26 B'way, New York
McKesson & Robbins (Salts of), 91 Fulton, New York
Mallinckrodt Chemical Works, St. Louis, Mo.
Mechling Bros. Mfg. Co. (Aqua), 949 N 9th, Phila., Pa.
Michigan Ammonia Works (Carbonate), ft of Beaufaix, Detroit, Mich.
Milwaukee Coke & Gas Co., Milwaukee, Wis.
National Ammonia Co. ("National" Anhydrous, "Peerless' Aqua for Refrigerating), St. Louis, Mo.
Naugatuck Chemical Co. (Aqua), Naugatuck, Conn.
New Haven Gas Light Co., New Haven, Conn.
Northwestern Fertilizer Works (Aqua), 45th & S Center av, Chicago, Ill.
Pacific Ammonia & Chemical Co., Francisco c Webster, San Francisco, Cal.
Penn Chemical Works ("Banner," Dry), Phila., Pa.
Penna. Salt Mfg. Co. (Ammonia, Aqua), Phila., Pa.
Powers-Weightman-Rosengarten Co. (Aqua), 9th & Parrish, Philadelphia, Pa.
Rhodes, Jas. H. & Co. (Liquid Anhydrous), 162 W Kinzie, Chicago, Ill.
Roessler & Hasslacher Chemical Co. (Sal Graml & Carbonate, etc.), 100 William, New York
Scull. Mfg. Co., Newark, N. J.
Semet-Solvay Co. (And Ammonia Products), Syracuse, N. Y.
Thomsen Chemical Co., Race & Winder, Baltimore, Md.
Western Chemical Mfg. Co. (Aqua & Anhydrous). Denver, Colo.
Wiarda, John C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 89— Ammoniates

Swift & Co. (Animal), Union Stock Yards, Chicago, Ill.

## 90—Ammonium (Bi-Carbonate)

Semet-Solvay Co., Syracuse, N. Y.

## 90a— Ammonia Chloride

Semet-Solvay Co., Syracuse, N. Y.

## Amyl

(See Acetate of Amyl)

## 91— Analytical Apparatus

Ainsworth, Wm. & Sons, Denver, Colo.
Bausch & Lomb Optical Co., Rochester, N. Y.
Berge, J. & H., 95 John, New York
Buffalo Dental Mfg. Co., Buffalo, N. Y.
Eimer & Amend, 18th & 3d av, New York
Heil, Henry. Chemical Co., St. Louis, Mo.
Hoskins Mfg. Co., Detroit, Mich.
Queen & Co., 1211 Arch, Phila., Pa.
Salt Lake Hardware Co., Salt Lake City, Utah
Sargent, E. H. & Co., 143 Lake, Chicago, Ill.
Scientific Materials Co., Pittsburg, Pa.
Thomas, Arthur H. Co., 12th & Walnut, Phila., Pa.

## 92— Anchors

Admiral Anchor Co. (Steel Stockless), Chester, Pa
American Ship Windlass Co. ("Babbitt"), Providence, R. I.
Baldt Anchor Co., Chester, Pa.
Bowers, L. M. & Co. ("National," "International," Steel Stockless), Binghamton, N. Y.
Camden Anchor-Rockland Machine Co. (Wrought Iron, 20 to 8,000 lbs.), Camden, Me.
Cape Ann Anchor Works, Gloucester, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Chester Steel Casting Co. (Ship), 407 Sansom, Phila., Pa.
Coleman, Walter & Son ("Rex"), Providence, R. I.
Fairhaven Iron Foundry Co., Fairhaven, Mass.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Laughlin, Thos. Co. ("Dirigo" Folding, Fishing, Grapnel, Mushroom, Stockless, etc.). Portland, Me.
Malleable Iron Fittings Co. (Folding), Branford, Conn.
National Steel Foundry Co. (Ship), Fairmont, av, New Haven, Conn.
**NEW JERSEY FOUNDRY & MA**chine Co. (Ship), 90 West, New York
Penn Steel Casting & Machine Co. (Open Hearth Steel), Chester, Pa.
Seaboard Steel Casting Co. (Open Hearth Steel), Chester, Pa.
Wilcox, Crittenden & Co. (Stockless with Ball & Socket, Mushroom, Folding Kedge, Grapplings, etc.), Middletown, Conn.

## 92a— Anchors (Concrete)

**STAR EXPANSION BOLT CO. ("Sebco")**, 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 93— Anchors (Guy)

Atlas Anchor Co., Cleveland, O.
Attica Foundry & Machine Co. ("Blaine"), Attica, O.
Aurora Specialty Mfg. Co. ("Samson"), Aurora, Ill.
Bennett, I. A. Co. ("Bull Tongue"), 567 W Van Buren, Chicago, Ill.
Cook, F. B., 900 W Lake, Chicago, Ill.
Crouse-Hinds Co. (Harpoon), Syracuse, N. Y.
Everstick Anchor Co., St. Louis, Mo.
Glaze-Morris Mfg. Co. ("Gem"), Columbus, O.
Hiawatha Anchor Co. ("Hiawatha"), Hiawatha, Kan.
Jackman, W. J. ("The Jack Anchor"), Lima, O.
**JOHNS, H. W.-MANVILLE CO. (Guy** & Cable), 100 William, New York. (See adv. index & branch offices, end of book)
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Matthews, W. N. & Bro. ("Matthews"), 219 N 2d, St. Louis, Mo.
Michigan Bolt & Nut Works, Detroit, Mcih.
Miller Anchor Co. ("Miller" Safety), Norwalk, Ohio
Monroe Electrical Mfg. Co. ("Hercules"), Monroe, Mich.
Phila. Electrl. & Mfg. Co. ("Pemco", Pole Guy Anchor), 1228 N 31st, Phila., Pa.
Positive Rail Anchor Co. ("Positive" One Piece Rail Anchor & Tie Plate Combined), Louisville, Ky., & Marion, Ind.
St. Louis Malleable Casting Co. ("O-K"), St. Louis, Mo.
Vote-Berger Co. ("D. & T."), La Crosse, Wis.
Wapak Hollow Ware Co., Wapakoneta, O.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 94— Anchors (Rail)

(See also Creepers, Anti-Rail)

American Guard Rail Fastener Co. ("Vaughan" Automatic), Real Estate Trust bldg, Phila., Pa.
American Railway Device Co., 193 Michigan av, Chicago, Ill.
Burgess, B. ("Burgess" Wrecking), Danville, Ill.
Cleveland Frog & Crossing Co., Cleveland, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kenly, W. K. Co., 1st Nat'l Bk. bldg, Chicago, Ill.
Miller Anchor Co. (For Wrecking Derricks), Norwalk. O.
Railway Specialty & Supply Co., Monadnock blk, Chicago, Ill.
St. Louis Malleable Casting Co., St. Louis, Mo.
Scott Mfg. Co. ("Racine"), Racine, Wis.

## 94a—Anchors (Screw, Expansion)

**DIAMOND EXPANSION BOLT CO.** ("Diamond"), 90 West, New York. (See adv. index & branch offices, end of book)
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 95— Anchors (Stone)

Church Appliance Mfg. Co. ("Boss"), La Salle, Ill.
Lanz, M. & Sons, Pittsburg, Pa.

## 95a— Anchors (Wall)

Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.

## 96— Andirons

(See also Fire Place Furnishings)

Boston Brass Andiron Co. (Brass), 104 Utica, Boston, Mass.
Bradley & Hubbard Mfg. Co. (Brass), Meriden, Conn.
Elm City Brass & Rivet Co., Plainville, Conn.
Glascock Stove & Mfg. Co., Greensboro, N. C.
**JACKSON, EDWIN A. & BRO. (Brass** & Iron), 50 Beekman, New York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY (Brass** & Iron), 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)
Janusch Mfg. Co. (Brass, Bronze & Iron), 496 E 134th, New York
Judd, H. L. Co., 87 Chambers, New York
Perelson, L. (Wrought Iron), 204 Centre, N. Y.
Rostand Mfg. Co., Milford, Conn.
St. Louis Brass Mfg. Co., St. Louis, Mo.

## 97— Anemometers

Ainsworth, Wm. & Sons, Denver, Col.
Davis, John & Son (Ltd.), Baltimore, Md.
Du Vivier, Ernest H. (Dial & Recording), 30 Church. New York
**ELLIOTT, B. K. Co. ("Briam's,"** etc.), 108 6th, Pittsburg, Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
Everhart Brass Works, Scranton, Pa.
Keuffel & Esser Co., 127 Fulton, New York
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Biram" & "Robinson"), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Taylor Instrument Companies ("Tycos"), Rochester, N. Y.
Warner Instrument Co. ("Warner"), Beloit, Wis.

## 98— Aneroids

Taylor Instrument Companies ("Tycos"), Rochester, N. Y.

## 99— Anglegraphs

Cassady-Fairbank Mfg. Co., Chicago, Ill.

## 100— Anglemeters

Sargent Steam Meter Co. ("Sargent" Indicator), 152 Lake, Chicago, Ill.

## 101—Angles & Bands (Trunk)

**CONTINENTAL FIBRE CO. (Vulcan**ized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Vul**canized Fibre), Elsmere, Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)

## 102— Aniline Colors & Dyes

Atteaux, F. E. & Co., 172 Purchase, Boston, Mass.
Badische Co., 128 Duane, New York
Beach & Co., Hartford, Conn.
Berlin Aniline Works, 213 Water, New York
Bull's Ferry Chemical Co., Edgewater, N. J.
Casella Color Co., 182 Front, New York
Farbenfabriken of Elberfeld Co., 117 Hudson, Newark, N. J.
Geisheimer & Co., 189 Front, New York
Heller & Merz, 22 Cliff, New York
Hudson River Aniline Color Works (Inc.), Rensselaer, N. Y.

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Innis, Speiden & Co., 46 Cliff, New York
Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Kalle & Co., 534 Canal, New York
Klipstein, A. & Co., 122 Pearl, New York
Kuttropf, Hartford & Hanna Co., Buffalo, New York
Metz, H. A. & Co., 122 Hudson, New York
National Aniline & Chemical Co., 100 William, New York
Thayer, E. M. & Co. (Also Alizarine Colors), 411 Atlantic av, Boston, Mass.

## 103— Annealers (Wire)

(See also Furnaces, Annealing, etc.)

**STRONG, CARLISLE & HAMMOND Co.,** 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## Annealing

(See Case Hardening)

## Announcers (Stage)

(See Carriage Calls, Electric)

## 103a— Annunciators

(See also Elevator Annunciators)

Ansonia Electrical Co., Ansonia, Conn.
Automatic Appliance Co., Boston, Mass.
Bunnell, J. H. & Co., Park pl & Church, New York
Edwards & Co., 140th & Exterior, New York
Electric Goods Mfg. Co. ("Ross," "Dandy," "Perfect," "Rival," "Noxall," etc.), 144 Pearl, Boston, Mass.
**ELEVATOR SUPPLY & REPAIR CO.,** 34 W Monroe, Chicago, Ill., & 136 Liberty New York. (See adv. index, end of book)
Garl Electric Co., Akron, O.
Heath Electric Co. ("Ideal"), Detroit, Mich.
Holtzer-Cabot Electric Co., Brookline, Mass.
Knickerbocker Elec. Co., 116 West New York
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Elec. Mfg. Co., Menominee, Mich.
Moon Mfg Co. ("Knapp," "Eclipse," "Acme"), 122 N Jefferson, Chicago, Ill.
Ostrander, W. R. & Co., 22 Dey, New York
Partrick, Carter & Wilkins Co. ("King," "Competition," "Guarantee"), 122 N 11th, Phila., Pa.
Stanley & Patterson ("Premier," Gravity Drop), 23 Murray, New York
Star Electric Co., Binghamton, N. Y.
Western Electric Co. ("Etonial"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 104—Annunciators (Automobile)

Champion, Albert Co. (Imported), 541 Tre-36 Whittier, Rox., Boston, Mass.
Cowles, C. & Co. (Inc.) ("Madison Square" & "Mechanics Hall"), New Haven, Conn.
Jones Speedometer Co., 127 W 32d, New York

## 105—Annunciators (Elevator)

(See also Annunciators)

Electric Mfg. & Equipment Co., Atlanta, Ga.
**ELEVATOR SUPPLY & REPAIR CO.,** 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

ELECTRIC SIGNALS
FOR
HOTEL PASSENGER ELEVATORS
ELEVATOR SUPPLY & REPAIR CO
105 W. 40th St. NEW YORK
561 W Monroe St CHICAGO
693 Market St., San Francisco, Cal.

Garl Electric Co., Akron, O.

## 106—Annunciators (Hospital)

Holtzer-Cabot Electric Co., Brookline, Mass.

## 107—Anodes (Brass & Copper)

Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Hudson Rolling Mill Co. (Copper), Bloomfield, N. J.
**HUNGERFORD, U. T. BRASS & COPper Co.,** 497 Pearl, New York
New Haven Copper Co. (Copper, Rolled Only). Seymour, Conn
Matthews, H. A. Mfg. Co., Seymour, Conn.
Michigan Copper & Brass Co., Detroit, Mich.
Seymour Mfg. Co., Seymour, Conn.
Taunton-New Bedford Copper Co. (Copper), New Bedford, Mass.

## 108—Anodes (Electro Plating)

Dow Chemical Mfg. Co. (Brass, Bronze, Copper, Gold, Silver, etc.), Mansfield, O.
**UNITED WIRE & SUPPLY CO. (In** Gold & Silver), 109-119 Summer, Providence, R. I. (See adv. index, end of book)

## 109—Anodes (Gold & Silver)

Benson, H. K. & F. S. (Platers' Granulated & Anode Silver), Glen Ridge, N. J.
Handy & Harman (Fine Silver), 22 Pine, New York
Hanson & Van Winkle Co., Newark, N. J.
**UNITED WIRE & SUPPLY CO., 109** Summer, Providence, R. I. (See adv. index end of book)

## 110— Anodes (Nickel)

Auburn Soap & Chemical Co., Auburn, N. Y.
Burns, E. Reed, 40 Withers, Brooklyn, N. Y.
Dow Chemical Mfg. Co., Mansfield, O.
Ely, C. Upham Co., 60 Vesey, New York
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co. (And Salts) Cleveland, O
Levett Mfg. Co., Matawan, N. J.
Roessler & Hasslacher Chemical Co., 100 William, New York
Seymour Mfg. Co., Seymour, Conn.
Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 111— Anodes (Zinc)

Harshaw, Fuller & Goodwin Co., Cleveland, O.

## Anti-Friction Metals

(See Bearings of Various Kinds; also Babbitt Metal)

## 112— Anti-Hums

Bunnell, J. H. & Co., Park pl & Church, New York
Harvard Electric Co., 525 W Van Buren, Chicago, Ill
Manhattan Electric Co., 17 Park pl., New York

## 112a—Anti-Skid Devices (Automobile)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 113— Antimony

American Metal Co., 52 B'way, New York
Atlas Chemical Co. ("Golden" Sulphuret of Antimony for Rubber Trade), Newtonville, Mass.
Avery Chemical Co. (Sulphurets of), Boston, Mass.
Beer, Sondheimer & Co., 42 B'way, New York
Gibert, A. & Sons Brass Foundry, St. Louis, Mo.
Blatchford, E. M. & Co., 70 Clinton, Chicago.
Cochrane Chemical Co., Boston, Mass. Ill.
**DOGGETT, STANLEY (Golden &** Crimson Sulpharet of), 101 Beekman, New York. (See adv. index, end of book)
Fuerst Bros. & Co., 2 Stone, New York
Harshaw, Fuller & Goodwin Co. (Metal, Needle & Oxide), Cleveland, O.
Hayman, Mich'l & Co., Buffalo, N. Y.
Hendricks Bros., 46 Cliff, New York
Hill, Edw. & Sons, 71 Pine, New York
Hoyt Metal Co., 325 Locust, St. Louis, Mo.
Hussey, C. G. & Co., 2850 2d av, Pittsburg, Pa.
**LEAVITT, C. W. & CO. ("A. S. P."** Brand, English, Metal, Crude & Oxide), 34 Church, New York. (See adv. index, end of book)
Lufbery, Geo. F. Jr. (Sulphuret of Antimony), Elizabeth, N. J.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index. & branch offices, end of book)
Nassau Smelting & Refining Wks., 607 W 29th, New York
New York Metal Selling Co., 2 Rector, New
Peerless Alloy Co., Denver, Colo. York
Raymond Lead Co., 735 W Washtenaw av, Chicago, Ill.
Selby Smelting & Lead Co., San Francisco, Cal.
Sholes, Chas. E. Co. (Crimson & Golden), 164 Front, New York
Tennant, C. Sons & Co. (Importers), 76 William, New York
Trench, C. S. & Co., 81 Fulton, New York
Trotter, Nathan & Co., 36 N Front, Phila., Pa.
U. S. Reduction Co., 315 Dearborn, Chicago, Ill.
Vogelstein, L. & Co., 42 B'way, New York
Walte, Ranlet & Co., Boston, Mass.
Wiarda, Jno. C. & Co. (Needle & Oxide), 259 Greenpoint av, Brooklyn, N. Y.

## 114—Antimony (Sulphuret of)

Atlas Chemical Co. ("Golden"), Newtonville, Mass.
Avery Chemical Co., Boston, Mass.
Lufbery, Geo. F. Jr., Elizabeth, N. J.

## 115— Anti-Rattlers

Bauer Bros. Mfg. Co. ("Burton," "Higgin" & "Johnson"), Cincinnati, O.
Evans, Coppins & Starks Co. ("Star Quick Shift"), Princeton, Ill.
Fernald Mfg. Co. ("Burton," "Quick Shift," "Wire" & "Ladd"), North East, Pa.
Hammarlund Mfg. Co., 96 Fulton, New York
Higgin Mfg. Co., Newport, Ky.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Kohler, F. E. & Co. ("Kohler"), Canton, O.
Monarch Carriage Goods Co. ("Handy"), Cincinnati, O.
Oneida National Chuck Co. ("National"), Oneida, N. Y.
P. C. W. Co. ("P. C. W." Sash), 1 Madison av, New York
**PENNSYLVANIA RUBBER CO. (Rub**ber), Jeannette, Pa. (See adv. index & branch offices, end of book)
Racine Malleable & Wrought Iron Co. ("Whitney"), Racine, Wis.
Raymond Mfg. Co., Corry, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Tanner, D. F. ("Quick Shift"), Holland, N. Y.
United Globe & Rubber Mfg. Co., Trenton, N. J.
Wallace Supply Co. ("Wallace"), 120 S Jefferson, Chicago, Ill.

## 116—Anvil, Vise & Drill Combined

Bloomfield Mfg. Co. ("New Banner"), Bloomfield, Ind.
Love, M. A. Mfg. Co. (Combined), Rockford, Ill.
Millers Falls Co. (Inserted Steel Vise Jaws), 28 Warren, New York. Works: Millers Falls, Mass.
Porter, J. E. Co., Ottawa, Ill.

## 117—Anvil & Vise Combined

Adams, A. L., Cedar Rapids, Ia.
Bauer Bros. Co. (Farmers'), Springfield, O.
Bloomfield Mfg. Co., Bloomfield, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fisher & Norris, ("Eagle") Trenton, N. J.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Loetscher-Ryan Mfg. Co. ("Star"), Dubuque, Ia.
Love, M. A. Mfg. Co., Rockford, Ill.
Millers Falls Co., 28 Warren, New York
Parker, Charles Co., Meriden, Conn.
Porter, J. E. Co. ("Porters" Combination Vise Drill & Anvil), Ottawa, Ill.
Richardson Mfg. Co., Worcester, Mass.
**ROCK ISLAND MFG. CO. (Semi-**Steel), Rock Island, Ill. (See adv. index & branch offices, end of book)
Sovereign, C. E. Co., Rockford, Ill.
Stickler Hay Tool Co., Janesville, Wis.
Stowell Mfg. & Fdry. Co. ("Hanson"), South Milwaukee, Wis.

## 118— Anvils

American Skein & Foundry Co. ("Badger"), Racine, Wis.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Bonney Vise & Tool Works ("Gipsey"), Allentown, Pa.

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Columbian Hardware Co., Cleveland, O.
Columbus Anvil & Forging Co. (Wrought), Columbus, O.
Columbus Forge & Iron Co. ("Trenton" Solid Wrought Iron), Columbus, O.
**Enterprise Windmill Co., Sandwich, Ill.**
**Fisher & Norris ("Eagle," "Horseshoer" "Special"), Trenton, N. J.**
Hay-Budden Mfg. Co. (Wrought), Brooklyn,
Hollands Mfg. Co., Erie, Pa. N. Y.
Illinois Iron & Bolt Co. ("Vulcan"), Carpentersville, Ill.
Phoenix Hardware Mfg. Co. (Bench, etc.), Homer, N. Y.
**Potts, Horace T. & Co. ("Paragon" Swedish Solid Steel), 318 N 3d, Phila., Pa.**
**ROCK ISLAND MFG. CO. (Semi-Steel), Rock Island, Ill.** (See adv. index & branch offices, end of book)
Russ, A. E. Mfg. Co., Cleveland, O.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Southern Skein & Foundry Co. ("Southern"), Chattanooga, Tenn.
Swedish Iron & Steel Corporation (Swedish Solid Steel), 12 Platt, New York
Wiebusch & Hilger ("Peter Wright," Imported), 106 Lafayette, New York

## 119— Anvils (Bench)

Billings & Spencer Co., Hartford, Conn.
Fisher & Norris ("Eagle"). Trenton, N. J.
Goodelt Pratt Co., Greenfield, Mass.
Hay-Budden Mfg. Co., 254 N Henry, Brooklyn,
**Hollands Mfg. Co., Erie, Pa. N. Y.**
**Massachusetts Tool Co., Greenfield, Mass.**
Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
Phoenix Hardware Mfg. Co. (For Light Work), Homer, N. Y.
**ROCK ISLAND MFG. CO. (Semi-Steel, for Farm or Shop), Rock Island, Ill.** (See adv. index & branch offices, end of book)
White, L. & I. J. Co., Buffalo, N. Y.

## 120— Anvils (Coopers')

**White, L. & I. J. Co., Buffalo, N. Y.**

## 121— Anvils (Farm)

(See also Anvils, Plow)
Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
**Fisher & Norris ("Fisher"), Trenton, N. J.**
Hay-Budden Mfg. Co., Brooklyn, N. Y.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
Rock Island Mfg. Co. (Semi-Steel), Rock Island, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

## 122— Anvils (Jewelers')

Billings & Spencer Co. (With Base), Hartford,
**Fisher & Norris, Trenton, N. J. Conn.**

## 123—Anvils (Paper Weight)

**Wrightsville Hardware Co., Wrightsville, Pa.**

## 124— Anvils (Plow)

(See also Anvils, Farm)
Atha Tool Co., Newark, N. J.
Evansville Tool Works, Evansville, Ind.
**Fisher & Norris ("Fisher"), Trenton, N. J.**
Hay-Budden Mfg. Co., 254 N Henry, Brooklyn,
Howell, W. H. Co., Geneva, Ill. N. Y.
Hubbard Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Vaughn & Bushnell Mfg. Co. (Drop Forged), 2130 Carroll av, Chicago, Ill.

## 125— Anvils (Pnuematic)

**INGERSOLL-RAND CO. ("Foley"), 11 B'way, New York.** (See adv. index & branch offices, end of book)

## 126— Anvils (Saw)

Columbus Anvil & Forging Co., Columbus, O.
Covel Mfg. Co., Benton Harbor, Mich.
Disston, Henry & Sons. Tacony, Phila., Pa.
Fisher & Norris, Trenton, N. J.
Hay-Budden Mfg. Co., 254 Henry, Brooklyn, N. Y.
**SIMONDS MFG. CO., Fitchburg, Pa.** (See adv. index & branch offices, end of book)

## 127—Apparatus for Making Rubber Stamps

**Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.**

## 128—Appraisers (Factory, Etc.)

American Appraisal Co., Milwaukee, Wis.
Manufacturers' Appraisal Co., Cleveland, O.
National Appraisal Co., Boston, Mass.
United States Apraisal Co., Boston, Mass.

## 129— Aprons (Advertising)

Brown & Kearney (For Grocers & Hardware Men), Silver Springs, N. Y.

## 130— Aprons (Canvas)

Page Belting Co., Concord, N. H.

## 131— Aprons (Condenser)

Norwich Belt Mfg. Co., Norwich, Conn.

## 132— Aprons (Flange)

**BOSTON BELTING CO. (For Ore Concentrating Machines, etc.), 260 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)

## 133— Aprons (Leather)

Barnes, H. K., 234 Devonshire, Boston, Mass.
Beekman, Edmund C. ("Boss" Blacksmith, etc.), 212 N 4th, St. Louis, Mo.
California Tanning Co., 712 N 4th, St. Louis, Mo.
Coupe, Wm. & Co. (Rawhide "Excelsior"), S Attleboro, Mass.
Firth, Wm. Co., 79 Milk, Boston, Mass.
**HUDSON BELTING CO. ("Sheepskin"), 3 Eaton pl, Worcester, Mass.** (See **adv. index, end of book)**
Helvetia Leather Co., Lancaster, Pa.
North Chelmsford Machine & Supply Co., North Chelmsford, Mass.
Page Belting Co., Concord, N. H.
Pich, Richard Mfg. Co., 10 5th av, Chicago, Ill.
Pechin, Jne. W., 700 N Front, Phila., Pa.
Turner, J. S. Mfg. Co., Lowell, Mass.

## 134— Aprons (Mechanics')

(See also Aprons, Leather)
Ferguson Waterproof Co. ("Alligator." Waterproof, Color Black), St. Louis, Mo.
Specialty Mfg. Co. (Heavy Duck), St. Anthony Park, Minn.
Troy Carriage Sun Shade Co. (Duck & Twill Carpenters' & Workmen's), Troy, O.
Union Mfg. Co. (Canvas), Columbus, O.
Walters, Wm. P. Sons (Duck), 1233 Market. Phila., Pa.

## 135— Aprons (Paper Mill

(See also Aprons, Rubber)
**BOSTON BELTING CO. (Rubber), 260 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)

## 136— Aprons (Rain)

Automobile Equipment Co., Detroit, Mich.
Everitt, B. F., 65 Fort E, Detroit, Mich.
Kroh, C. Z. & Co., Toledo, O.
Lembach Bros., 253 Jefferson av, Detroit, Mich.
Springfield Auto Top & Upholstering Co., Springfield, Mass.

## 137— Aprons (Rubber)

**BOSTON BELTING CO., 260 Devon**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices end of book)
Goodyear India-Rubber Glove Mfg. Co., 503 B'way, New York
Goodyear Rubber Co., 787 B'way, New York
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade & Church, New York.** (See adv. index, end of book)

## 138— Aqua Fortis

Butterworth-Judson Co., Newark, N. J.
**Cochrane Chemical Co., Boston, Mass.**
Naugatuck Chemical Co., Naugatuck, Conn.

## 139— Aquaphones

Waterworks Equipment Co. (For Locating Leaks in Water Mains, etc.), 50 Church, New York

## 140— Aquariums (Glass)

**Co-Operative Flint Glass Co., Beaver Falls, Pa.**

## 141— Arbors (Drill Chuck)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. (Arbors for Shell Beamers), Detroit, Mich.
Pratt Chuck Co., Frankfort, N. Y.
Skinner Chuck Co., New Britain, Conn.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Trevor Mfg. Co. (Chuck), Lockport, N. Y.
Union Mfg. Co. ("Union"), New Britain, Conn.
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO.,** West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

## 142— Arbors (Lathe)

**Braunsdorf-Mueller Co., Elizabeth, N. J.**

## 143—Arbors (Milling Machine)

Barber-Colman Co., Rockford, Ill.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cochrane-Bly Co., Rochester, N. Y.
Garvin Machine Co., 137 Varick, New York
Harrison & Knight Mfg. Co., Newark, N. J.
**NATIONAL TOOL CO. (Screw), Cleve**land, O. (See adv. index, end of book)
Owen Machine Tool Co., Springfield, O.
**STANDARD TOOL CO., 6900 Central** av Cleveland, O. (See adv. index, end of book)
Union Twist Drill Co., Athol, Mass.

## 143a— Arbors (Releasing)

**CLEVELAND TWIST DRILL CO.** (Patent), E 49th & Lakeside av, N E, Cleveland, O. (See adv. index & branch offices, end of book)

## 144— Arbors (Saw)

**American Saw Mill Machinery Co., Hacketts**town, N. J.
American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg. New York
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Atlantic Works (Inc.) (Cast Steel), Phila., Pa.
Bauer Bros. Co., Springfield, O.
Brauch Saw Co., St. Louis, Mo.
Bentel & Margedant Co., Hamilton. O.
Chase Turbine Mfg. Co. (With Self-Oiling Boxes), Orange, Mass.
Covel Mfg. Co., Benton Harbor, Mich.
**Crucible Steel Co. of America ("La Belle" Steel), Pittsburg, Pa.**
**Curtis & Co. Mfg. Co. ("Curtis," "Dixie"), St. Louis, Mo.**
Disston, Henry & Sons (Inc.), Tacony, Phila,
Glascock Stove & Mfg. Co., Greensboro, N. C.
Goodell-Pratt Co. (Saw or Emery Wheel), Greenfield, Mass.
Hemingway, John & Son, Lynn, Mass.
Hobbs Mfg. Co., Worcester, Mass.
**Howell, R. R. & Co., Minneapolis, Minn.**
**National Saw Co., Newark, N. J.**
Oliver Machinery Co., Grand Rapids, Mich.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta. Ga.
Sovereign Foundry & Mfg. Co., Lebanon, N. J.
White, Jno. A. Co. (Self-Oiling), Dover. N. H.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

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## 145—Arbors (Shell End Mill)

Barber-Colman Co. (Screw), Rockford, Ill.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 146—Arbors (Shell Reamer)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index end of book)**
National Twist Drill & Tool Co., 21st & Standish, Detroit, Mich.
Pratt & Whitney Co., Hartford, Conn.
Rogers, John M., Gloucester City, N. J.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 147—Arc Deflectors & Controller Linings

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO.** ("Electribestos"), 100 William, New York. (See adv. index & branch offices, end of book)
Rutherford, J. & Son ("Star" Deflector), Akron, O.

## Arc Lamp Cord

(See Cords, Trolley, Arc Lamp & Bell)

## 148—Arc Welders (Electric)

**ELECTRIC CONTROLLER & MFG. Co.,** Cleveland, O. (See adv. index & branch offices, end of book)

## 148a—Architect & Builder Supply Emporium

**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**SOLTMANN, E. G.**
(Also Everything for the Draughting Room & Electric Prints of All Kinds), 134 W 29th, New York. (See adv. index, end of book)

**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER**

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Whenever an Architect is at a loss to know the name and address of a Manufacturer of a given article he desires to specify, this Bureau will, on application, see that his means of access to such Manufacturer are rendered easy, accurate and IMMEDIATE.

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La Belle Architectural Co., Hood bldg
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*Wheelock, H. B., Steiner bldg
Whilldin & Price, Title Guarantee bldg
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Woodruff, S. H., 1049 Howard
Woolett & Woolett, Monadnock bldg
Worswick, A. Lacy, Lick bldg
Wright, Rushford & Cahill, 571 California
Young, Edw. E., 251 Kearney

SAN JOSE—Aiken & Simpson, Theatre bldg
Binder, Wm., Rea bldg
Keast, Harold, 1423 S 1st
Klinkert, Wm. & Son, Ryland bldg
Lenzen, Theodore & Son, 110 S 2d
Page, Geo. W., Rea bldg
Porta, Albert, 34 Lakeside av
Skillings, Warren, Garden City Bank bldg
Wolfe & McKenzie, Smout bldg
SAN RAFAEL—Schlosser, Henry
SANTA ANA—Bithers, A. S.
SANTA BARBARA—Nixon, Thos.
Ray, E. Russel
Wilson, Francis W.
SANTA CRUZ—Van Cleek, E. L.
SANTA MONICA—Cross, C. C. & Son
Hathaway, V. E.
Wells, F. O. & O. P.
Young, R. B.
SANTA ROSA—Patton Bros.
STOCKTON—Brown, E. B.
Cody, M. S.
King, Walter

## COLORADO.

BOULDER—Lundborg, E. A.
Redding, Wm. & E. Floyd
Saunders, Arthur E.
Shockley, Isaac T.
COLORADO SPRINGS—Arend, Nicholas L.
Barber, T. P., 1st Nat'l Bank bldg
Bryson, Geo. M., Hagerman bldg
Douglas & Heatherington, Gazette bldg
Hetherington, T. O.
Linn, E. T., Exchange Nat'l Bank bldg
MacLaren & Thomas, Hagerman bldg
Pease, L. A., Post Office bldg
Thomas, Chas. E.
DENVER—*Baerresen Bros., Mack bldg
Benedict, J. B., Ernest & Cranmer bldg
Berk, H. A. G., Kittredge bldg
*Bettcher, George L., Mack bldg
*Biscoe & Hewitt, 25 E 18th av
Bryan, Albert, Jackson bldg
Child, W. T., Evans blk
*Cowe, Wm., 510 Mack blk
Desjardins, Leo A., Temple Court
Dryden, D. W., Temple Court
Eagleton & Mountjoy, Empire bldg
*Eberley, F. C., Good blk
Edbrooke, F. E. Architect Co., 510 Opera House blk
*Edwards, W. Harry, 1715 California
*Fisher, Wm. E. & Arthur A., Railway Ex.
French, Park M., Empire bldg bldg
Gates, Charles, Ideal bldg
*Gove & Walsh, McPhee bldg
*Harnois, F. Louis, 100 E 16th av
Harvey, Geo. Jr., Commonwealth bldg
Henke, Chas. H., 3425 W 36th
Huddart, John J., 42 Bank bldg
*Huntingdon, G. W., McPhee bldg
Hyder, Jas. B., 2073 Downing
Kilroy, Jno. G., Colorado bldg
*Marean & Norton, 221 Chamber of Commerce
Moorman, E. H., Ideal bldg
Mozier, Harry, 209 Continental
*Murdoch, Jas., 610 Mack bldg
O'Brien, Arthur H., Coronado bldg
Paroth, F. W., 916 Champa
Phillips, Richard, Jacobson bldg
Reynolds, A. W., Majestic bldg
Rice, W. L., 1608 B'way
*Roeschlaub, Robt. S. & Son, 52 King blk
Snell, Frank S., Commonwealth bldg
Stein, John J., Colorado bldg
*Sterner & Williamson, Jackson bldg
Taylor, Wilford H., 1433 Tremont
Thomas, Alfred M., McPhee bldg
Varian & Varian, Colburn bldg
Westfall, Wm. J., Boston bldg
Wieger, T. Robt., 628 E 14th
Willison & Fallis, Ideal bldg
Wilson, Jos., Ferguson bldg
DURANGO—Smith, Silas W.
ESTES PARK—Rogers, H. C.
FORT COLLINS—Fuller & Garbutt
GRAND JUNCTION—Boyer, Jesse B.
GREELEY—Patterson, Wayne B.
LA JUNTA—Dubree, Walter
LONGMONT—Viney, B. C.
MONTROSE—Aulrobus, Jno. H.
NEW WINDSOR—Felmlee, Oscar R.
PUEBLO—*Cooper & Robertson
Fry, Wm. A.
Gile, J. M.
Robertson, Guy B.
*Roe, Geo. W.
TRINIDAD—Hendrickson, A. C.
Rapp, I. H. & W. M.

## CONNECTICUT.

BRIDGEPORT—Asheim, Leonard, 211 State
Beardsley, C. T., Jr., 155 State
Beckwith & Jackson, Arcade bldg
*Briggs, Warren R., 946 Main
Cooper, F. A., 1217 Main
Doehrer, Bernhardt, 167 State
Kelly, Thos. T., 107 Wall
Lambert, Hy. A., Fairfield av
Meloy, A. S., P. O. Arcade
Northrup, Jos. W., Court Ex. bldg
Skinner & Walker, 1188 Main
Southey, Ernest G., Broad st
BRISTOL—Stewart, C. W.
DANBURY—†Blackman, W. B.
Bunnell, John L.
Foster Bros.
Sutherland, Philip
DERBY—Reilly, Dennis E.
EAST HADDON—Morgan, Geo. W.
FAIRFIELD—Kelley, C. H.
GRANBY—Shattuck, A. D.
HARTFORD—Allen, Isaac A., Jr., 904 Main
Barker, Russell, F., 49 Pearl
Bayley, L. D., 839 Main
Becker, Willis E., 847 Main
Curtis, H. J., 61 Imlay
Curtis, H. J., 26 State
Davis & Brooks, 49 Pearl
Dwyer & McMahon, 36 Pearl
Ellis, R. A., 36 Pearl
*Hapgood, Edw., 36 Pearl
Johnson, Wm. D., 26 State
*Keller, Geo., 11 Park Terrace
O'Donohue, M., 87 Hawthorn
§Scoville, A. W., 756 Main
§Scoville, William H., 720 Main
Sellew, B. A., 756 Main
Smith & Bassett, 36 Pearl
Smith & Des Champs, 93 Barker
Stone, E. M., 49 Pearl
§Svenson, Chas., 54 Woodbine
Whitmore, Chas. O., 75 Pratt
Whiton, Frank W., 118 Capen
Zunner, Geo., 756 Main
MERIDEN—Bloomfield, David
Palmer, Chas. S.
MYSTIC—Greenman, G. B.
Rathbone, John S.
NAUGATUCK—Clark, F. Alton
NEW BRITAIN—Cadwell, Wm. H.
Crabtree, Walter P.
McCarthy, John J.
Unkelbach & Perry
NEW HAVEN—Allen & Williams, 82 Church
Brown, Frank E., 116 Church
Brown & Von Beren, 865 Chapel
Foote, R. W., 902 Chapel
Joy, Chas. E., 902 Chapel
Palmer & Townsend, 55 Church
*Robinson, Leoni W., 865 Chapel
Sellers, Philip (Mill Arch's & Engrs.), 756 Chapel
Shiner, Walter R., 902 Chapel
Sperry Engineering Co., 82 Church
NEW LONDON—Donnelly, D. St. C.
Duffy, James
Sweeney, James
NEW MILFORD—Rowe, Frank E.
NORWALK—(See South Norwalk)
NORWICH—Cudworth & Woodworth, 148 Main
Hiscox, Jas. A., 37 Franklin
Preston, C. H., 43 B'way
PUTNAM—Corbin, E. M.
ROCKVILLE—McCrary, J. H.
SOUTH NORWALK—Banks, John W., East Norwalk
Hamilton, John A.
Hoyt, D. E.
Minor, Henry R.
Morehouse, Ferris S.
Paddock, A. N., East Norwalk
STAFFORD SPRINGS—Converse, Albert
STAMFORD—Anderson, Clais, 97 Grove
Emmons, Nelson E., 389 Main
Marvin, Henry, Burling Arcade
Stratton, Edward B., 700 Main

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TORRINGTON—Clinton, G. R.
Racheter, T. A.
WALLINGFORD—Becroft, Wm. E.
WATERBURY—Bailey, Chas. J., 63 Bank
Benedict, E. E., 51 Leavenworth
Duhaime, John B., Jr., 125 East Farm
Freney & Jackson, 51 Leavenworth
Griggs & Hunt, 51 Leavenworth
Ketchen, Christopher A., Jr., 65 Bank
Peck, Theo. B., 65 Bank
Seeley & Richmond, 18 Abbott av
Smith, Joseph T., 36 N Main
Tyler, Clayton A., 27 W Main
Walsh, Louis A., 51 Leavenworth

## DELAWARE.

GEORGETOWN—Jones, C. R.
WILMINGTON—Brinckly, Wm. D., 2616 W 16th
Brown & Whiteside, Dupont bldg
Cloud, Newton H., 400 Market
Connell & Pierson, 834 Market
Crawford, Leon W., 919 Market
Evans, Wm. S., Jr., Equitable bldg
Kennedy, J. & M., Ford bldg
Rice, Edw. L. Jr. Co. (Inc.), 815 Market
Rice, Edw. L., Jr., 815 Market
Rhodes, A. Edw., Masonic Temple
Rogers, Laussat R., Ford bldg
Thompson, Jno. D., Jr., Ford bldg
Tindall, Roscoe C., Equitable bldg

## DISTRICT OF COLUMBIA.

WASHINGTON—Atkinson, Fred'k G., 642 9th, N E
Averill & Adams, Union Trust bldg
Bibb, A. Burnley, 808 17th, N W
Beers, Albert H., 1342 New York av, N W
Boal & Brown, 1725 H, N W
Brink, E. P. & Son, 808 13th, N W
Brook, Fred'k H., Hibbs bldg
Brown, Bedford, 806 17th, N W
Brown, Glenn, 806 17th, N W
Bush-Brown, Lydia, 1729 G, N W
Clark, Appleton P., Jr., 816 14th, N W
Cooper, George S., 1413 G, N W
Crusor, M. Bashon, 51st & G, N E
Cunningham, Harry F., 729 15th, N W
Davis, Wm. T., Stewart bldg
Dean, Edw. C., Union Trust bldg
De Sibour, Jules H., Hibbs bldg
Dessez, Leon E., 1421 F, N W
Didden, C. A. & Son, Corcoran bldg
Down, Edw. W., 911 G, N W
Early, Jno. J., 2131 G, N W
Emmert, Percival R., 1110 15th, N W
Fitzpatrick, Francis W., 4200 Piney Branch rd, N W
Fletcher, Fred'k A., 1413 G, N W
Fuller, Thos. J. D., 806 17th, N W
Germuller, Julius, 456 Louisiana av, N W
Goenner, Albert, 35 B, N W
Graham, Chauncey G., 3629 10th, N W
Gregg, Chas., 1320 New York av, N W
Grimm, Nicholas R., 625 F, N W
Hales, Geo. P., Bond bldg
Hall, Arthur W., Evans bldg
Haller, Nicholas T. Co., Corcoran bldg
*Harding & Upman, 729 15th, N W
Harkness, Chas. A., 1026 25th, N W
Harris, Albert L., 1516 H, N W
Hatton, Isaiah T. & Co., 317 6th, N W
Heaton, Arthur B., 1319 F, N W
Hensey, Melville D., 1300 F, N W
*Hill & Kendall, Corcoran bldg
Hoffman, Jos. H., 1227 E, N W
*Hornblower & Marshall, 1410 H, N W
Hubbard, Vincent A., 1315 H, N W
Huggett, M. Chas., The Farragut
Hunter & Bell, 505 7th, N W
Hutchins, Carleton W., 1215 I, N W
Jackson, Frank H., 1419 G, N W
Keene, Chas., 2007 Columbia rd, N W
Leisenring, L. Morris, 1320 New York av,
Lindsey, Arthur R., Kenilworth N W
Macneil & Macneil, Union Trust bldg
Mactier, Henry, Bond bldg
*Marsh & Peter, 520 13th, N W
Meyers, B. Frank, Bond bldg
Milburn, Heister & Co., Home Life bldg
Miller & Miller, Evans bldg
Morrill, Milton D., Corcoran bldg
Mullett, A. B. & Co., Union Trust bldg
Palmer, Wm. J., Warder bldg
Pelz, Paul J., Corcoran bldg
Pierson, Frank G., 902 F, N W
Pittman, W. Sidney, 494 Louisiana av, N W
Plager, Wm. S., 210 N Capitol
Pohl, George R., Corcoran bldg
*Pyle, Fred'k B., 1003 F, N W
Rich & Fitzsimmons, Oxford bldg
Roberts, T. Kent, 819 17th, N W
Rose, Clarence T., 614 6th, N E
Schneider, Albert M., Bond bldg
Schneider, Ferd. T., 1314 F, N W
Shanks, Saul L., 1413 F, N W
Simmons, B. Stanley, 1301 G, N W
Sommerville, C. W., Union Trust bldg
Sonneman, Alex. H., Chevy Chase
Speiden & Speiden, 1403 New York av, N W
*Stead, Robert, 904 F, N W
Sunderland, Erskine M., Ouray bldg
Taylor, James K., Supervising Architect, U. S. Treasury Dept.
*Totten, G. Oakley, Jr., 808 17th, N W
Vaughn, Merrill T., Woodbridge
Vogt, Oscar G., Corcoran bldg
Waggeman, Clarke, 1124 Connecticut av,
Warner, Jas. H., 602 13th, N W N W
Webb, C. Edgar, Warder bldg
Wenig, Julius, 1223 F, N W
West, Claugton, Oxford bldg
White, J. Kenneth, 149 Massachusetts av,
Wood, Donn & Deming, 808 17th, N W N W
Woodward, Fred J., 1320 New York av,
Wyeth, Nathan S., 1517 H, N W N W
Young, Edw. W. O., 1013 18th, N W

## FLORIDA.

DE LAND—Davis, M.
JACKSONVILLE—Butler, G. T., 22 Hogan
Camp, W. B., Livingston bldg
Dougherty & Page, Duval bldg
Ehmann, Emil A., 117 Laura
Gilkes, A. B., Bisbee bldg
Greeley, Mellen C., The Baldwin
Hawkins, J. H. W., Realty bldg
Holmes, Rutledge, 117 Laura
Huber, Raymond, 20 W Orange
Klutho, H. J., Board of Trade bldg
McCarrel & Bauman, Clark bldg
McClure & Holmes, 135 Bay
Walsh, J. R., 138 Bay
KEY WEST—Bryan, T. M.
LEMON CITY—Pfeiffer, Geo. L.
OCALA—Blanchard, W. C.
MacKay, Geo.
ORLANDO—King, M. S.
PENSACOLA—Blount, F. M.
Frederic, W. C.
Willis, W. D.
ST. AUGUSTINE—Henderich, F. A.
TAMPA—Bonfoey & Elliott
Curtis, F. M.
Johnson, A. H.
Kennard, Francis J.
Miller, M. J.
Nolan, E. A.
Shaw & Jay
WEST TAMPA—James, Fred J.

## GEORGIA.

ATLANTA—Allen, W. H., 425 Empire
Battle, J. C., Grand bldg
Bishop, F. A., Empire bldg
Bleckley, H., Empire bldg
Brightwell, W. A., Peters bldg
Brown, A. Ten Eyck, Forsyth bldg
*Bruce, Alex. C., 327 N Boulevard
Carpenter, R. H., Austell bldg
Chapman, H. K., 134 East av
Choate, Chas. E., Candler bldg
Dallis, P. A. (Mill Arch. & Engr.), Candler bldg
Dougherty, E. E., Candler bldg
*Downing, W. T., Grand bldg
Dozier, Miss H. C., Peters bldg
Edwards, W. A., Candler bldg
Everett, A. F. N., Grand bldg
Foote, G. W., 56 Inman bldg
Franklin, Chas., 449 Crew
Frazier, C. E., English-American bldg
Head, Jack, Candler Annex
Hentz & Reid, Candler bldg
Higdon & Morris, Austell bldg
Jones, Lamar, Atlanta Nat'l Bank
King & Walker, 90 N Forsyth
MacEachron, J. R., Candler bldg
Marye, P. Thornton, Candler bldg
*Morgan & Dillon, Grand bldg
Murphy, G. E., Candler bldg
Padgett & Sons, Candler bldg
Stewart, Geo. W., Candler bldg
Thompson, Geo. C., Candler bldg
Trowbridge, S. D., Grand bldg
Tully, Grove C., Empire bldg
Wachendorff, E. C., Empire bldg
Walker & Chase, Candler bldg
Walter, F. C., Forsyth bldg
Wilburn, Miss L. R., Peters bldg
AUGUSTA—Benson, Frank M.
Goodrich, L. F.
MacMurphy & Story
Preacher, G. L.
Wendell, H. T. E.
MACON—Blair & Nesbett
Dennis, P. E.
Ellis, C. R.
Happ, Frank R.
Hentz & Reid
ROME—†Edwards, J. R.
†Smith, H. M.
SAVANNAH—Kops, J. deBruyn, Savannah Bank & Trust bldg
Sugden, Percy, Nat'l Bank bldg
Urban, Henry, Provident bldg
Wallin & Young, German Bank bldg
Whitcover, H. W., Nat'l Bank bldg
WAYCROSS—Myers, C. B.

## HAWAII.

HONOLULU—Emory & Webb
Gibb, Thos.
Gill, T.
Kerr, H. L.
Newcomb, E. A. P.
Ripley & Reynolds
Walker, C. O.
Young, J. L.
MAUI—(PAIA)—Dowdell, S. R.

## IDAHO.

BOISE—Denman, C. K.
Fisher, Vinton
Nisbet & Paradice
Smith, J. W.
Tourtellotte & Hummel
Wayland & Fennell
KELOGG—Helbostad, H. K.
POCATELLO—Grundfor, M.
LEWISTON—Nave, J. H.

## ILLINOIS.

(Licensed Architects of Illinois)

ALHAMBRA—Oswald, Fridolin
ALTON—Maupin, Jas. M., Commercial bldg
Pfeiffenberger, L. & Sons, 102 W 3d
ATKINSON—Chapler, Elijah C.
Milar, Wallace L.
AURORA—Malmer, Eugene, 73 Fox
Minott, Jno. E., Coulter blk
Worst & Shepardson, 341 Coulter blk
BELLEVILLE—Rubach, Otto W.
BLOOMINGTON—*Miller, Geo. H., Evans bldg
Pillsbury, Arthur L., Griesheim bldg
Robinson, L. Eugene, 1411 N Main
Simmons, Aaron T.
CAIRO—Jenkins, John S., Commercial av
Kusener, Casper, Alex. Co.'s, Nat'l Bank bldg
CARBONDALE—Thompson, Thos. S.
CARTHAGE—Payne, Geo. W. & Son
CHAMPAIGN—Brown, Seely, 411 W University
Clark, Chas. R., 105 Chalmers
Harper, Homer, 78 N Neil
Heimbeck, W. C., 111 E Healy
Hubbard, Archie H.
Leonard, Edith, 602 W Healy
Spencer, Nelson S., Karihar bldg
Temple, Harry R., Karihar bldg
Vredenberg, Hachaliah, Illinois bldg
CHARLESTON—Maxwell, Benj. R., 411 Harrison
Mitchell, Chas. D., 16 6th
CHICAGO—Abbott, Frank B., 225 Dearborn
Adler, Abraham K., Bedford bldg
*Ahlschlaeger, John, 138 N Lasalle
Allison, Lyman J., 25 N Dearborn
Almquist, Carl M., 32 N Clark
Alschuler, Alfred S., Steger bldg
Andersen, Theodor, 1025 Belmont av
Anderson, Helge A., 2858 Shakespeare
Anis, Albert, 1330 N Irving av
Armstrong, Jno. A., 218 Lasalle
Aroner, Jacob S., McCormick bldg
Ashby, Geo. Wm., Medina bldg
Ayars, Chas. R., 148 W Washington
Bailey, Cyrus, 140 S Dearborn
Baker, F. S., 146 Lasalle
Bannister, Geo. S., 1620 W 102d
Barfield, Wm. G., 58 W Washington
Barnes, Jno. H., 634 Van Buren
Barnes, Julian, 153 Lasalle
Barrett, Fred L., 125 Monroe
Barthel, Julius Bernard, 127 N Dearborn
Barton, Francis M., Medina bldg
*Beaumont, George, 25 N Dearborn
*Beers & Beers, Orchestra bldg
Behel, Vernon W., 25 N Dearborn
Beiler, Henry P., 604 E North av
Belden, Edgar S., 140 S Dearborn
Bell, Theodore N., 154 W Randolph
*Beman, Solon S., 606 S Michigan av
Bennett, A. J. T., 9110 S Winchester av
Bennett, Wm. Arthur, 35 S Dearborn
Benson, Edw., 3326 N Clark
*Berlin, Robert C., 19 S Lasalle

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Bessler, Edw. W., 1837 W 12th
Bicknell, Alfred H., 5210 Southport av
Bishop, Thos. R., 35 S Dearborn
Bjork, David T., 138 Washington
Blondin. Edward A., 5459 State
Bollenbecher, Jno. C., Corn Exchange Bank
Borst, Geo. Henry, 69 W Wash'n bldg
Bouchard, Lewis C., 155 N Clark
Bourke, Robt. E., 5620 Michigan av
Bowen, Howard. 30 N Lasalle
Bowes, Fred'k Wm., 2656 N Centratl Park
Brabant, Frank J. E., 127 N Dearborn av
Brandner, Ludwig T., 1917 Fremont
Brandt, Berkley G., 9 Jackson blvd
Branitzky, Wm. T., Unity bldg
Braucher, Ernest N., 5213 W Monroe
Brill, Geo. M., 140 S Dearborn
Brinsley, H. C., 318 S Leavitt av
Bristle, Jos. H., 1415 Olive av
Brodhag, Louis, 84 Lasalle
Brompton, Jos. C., 32 N Clark
Brown, Arthur G., 19 S Lasalle
Brown, Seely, 411 W University
Brown, W. R., 5439 W Superior, Austin Sta
Brueckner, Carl Louis, 918 Center
Brush, Chas. E., 54 W Randolph
Buck. Lawrence, 64 E Van Buren
Buck, Niels, 9 S Lasalle
Buchett, A. C., 123 E 58th
Buckley, Asbury W., 26 Van Buren
Buerger, Albert J., Jr., 4026 W 12th
Burfeind, Wm. F., Security bldg
*Burnham, D. H. & Co., 9 Jackson blvd
Burns, Jas., Chicago Opera House bldg
Butts, Julius A., 723 S Paulina
Carnegie, W. G., 834 E 90th
Carr, Geo. Wallace, 64 E Van Buren
Charvat, Anton, 1801 Ashland av
Cerny, Jerry J., 1442 S Harding
Chatten & Hammond, 64 E Van Buren
Christensen, Chas. W., 2910 Logan blvd
Chubb, John D., 32 N Clark
Church, Myron H., 140 S Dearborn
Church, Walter S., 140 S Dearborn
Clark, Edwin H., 175 Dearborn
Clark, Robert C. (care Armour & Co.), 205
Clark, Wm. J., 4850 Washington Lasalle
Clark, Edwin H., 105 S Dearborn
*Clay, Wm. W., 226 S Lasalle
Cloyes, F. O., Fisher bldg
Cobb, Wm. H., 2156 Sunnyside av
Coffin, Arthur S., 64 W Randolph
Cohen, Isadore, Monadnock bldg
Colcord, Albert E., 42 W Dearborn
Cole, Arthur W., Ashland bldg
Coolidge, Chas. A., 34 S Lasalle
Crowen, Samuel N., Stock Exchange bldg
Dalsey, Harry I., 1123 Throop
Davidson, Frank E., Monadnock blk
Davis, Chas. G., 223 E 53d
Davis, Zechary T., 64 E Van Buren
Dean & Dean, 206 S Lasalle
DeMoney, Frank O., 9 S Lasalle
Dennis, Chas. A., 4020 W Addison
Devine, Nicholas S., 1016 S Winchester av
Dibelka, Jas. B., 2023 S 40th
Dinkelberg, Fred'k P., 135 Adams
*Doerr, J. F. & J. P., Steger bldg
Dornfeld, J. F., 178 W Jackson blvd
Dorr, John I., 7120 Langley av
Dougherty, Floyd E., 3723 Wilton av
Dowling, Edw. F., 8 S Dearborn
Downs, Edwin L., 9 Jackson blvd
Drumond, Wm. E., 64 E Van Buren
Duesing, Theo., 2700 W 22d
Duncan, John, 58 W Washington
Dunford, Samuel H., 5717 Iowa
Dunning, N. Max, 35 S Dearborn
Dvorak, Jos., 3757 W 23d
Dwen. Robt. G., 3736 Ellis av
Dyer, Scott C., 5458 Cornell av
Eckstrom, Christian A., 131 Lasalle
Egan & Prindeville, 64 E Van Buren
Eichberg, S. Milton, 64 W Randolph
Falls, Alex. S., Northern Trust Co. bldg
Fellows, Wm. K., Strauss bldg
Ferrel, Albert G., 304 W 63d
Fielder, Fred. A., 167 Dearborn
Filas, Thos. M., 2418 S Central Park av
Fischer, Fred'k Wm., 9154 Commercial av
Fischer. John B., 140 S Dearborn
Fisher, Albert J., 1950 Irving Park blvd
*Flanders, John J., 140 N Dearborn
Flegel, Albert L., 5 S 5th av
Flesch. Eugene W. P., 72 W Adams
Fletcher, Robert C., 179 W Washington
Flizikowski, John S., 138 Lasalle
Floto, Julius, Monadnock bldg
Foehringer, Fred'k, 34 Lasalle
Fogel, Reuben W., 1839 Warrier av
*Foltz, Fritz, 8 S Dearborn
Fortin, Jos. T., 7 Blue Island av
Foster, Arthur, 230 S Lasalle
Fowler, George J., 1512 Greenleaf av
Foy, W. D., 153 N Waller av
France, Roy F., Ashland blk
Friedl, Herman, 2061 Lincoln av
Fromman & Jebsen, Schiller bldg
Frost, Chas. S., Borland bldg
Fry, Frank L., 140 S Dearborn
Fullenwider, Arthur E., 7209 Howard av
Furst, Chas. J., 179 W Washington
Fyfe, Jas. L., 64 E Van Buren
Garden, Hugh M. G., 179 W Washington
Gardner, Horace, 140 S Dearborn
Gassman, Andrew P., 138 Washington
Gatterdam, Fred. E., 154 W Randolph
Gauger, Wm., 32 N Clark
Gaul, Herman J., 179 W Washington
Gerber, Arthur U., care N. W. Elevated R. R., Wilson-Kenmore av
Gerhart, Paul, Schiller bldg
Gibb, Wm. R., 160 W Jackson blvd
Gilbert, Geo. H., 1509 E 60th
Gillette, Edwin F., 8 S Dearborn
Goldberger, Maximilian S., Calumet
Goodman, Wm. C., 2932 W Adams
Graham, Ernest R., Railway Exchange bldg
Green, Herbert H., Heyworth bldg
Griesser, Richard, Schiller bldg
Grotz, Chas. J., 2325 N California av
Grussing, Geo. H., 154 W Randolph
Gubbins, Wm. F., 155 N Clark
Guenzel, Louis, 72 W Adams
Haagen, Paul T., 64 E Van Buren
Hale, Perley, Strauss bldg
Hall, Emery Stanford, 19 S Lasalle
Hall, Eric E., 179 W Washington
*Hallberg, Lawrence G., 154 W Randolph
Hammond, Chas. Herrick, 64 E Van Buren
Hancox, Chas. J., 108 S Lasalle
Handy & Cady, 179 W Washington
Hansen, Christian O., 852 Dearborn
*Hansen, Harold M., 112 N Lasalle
Hansen, Paul, 1138 Ainslie
Harley, Wm., Jr., 30 N Dearborn
Harned, Henry P., 218 Lasalle
Hartigan, Wm. B., 2536 Flournoy
Harvey, Geo. L., 105 S Dearborn
Harvey, John, 9749 Avenue H
Hatzfeldt & Knox, Tribune bldg
Hawk, Albert T., 806 Lasalle St. Station
Hazleton, H. T., 305 Dearborn
Hecht, Albert, Reaper bldg
Heinz, Lorenz H., 128 N Lasalle
Henschlen, H. P., 431 S Dearborn
Herlin, Geo. W., 3123 5th av
Herr, Thornton A., 140 S Dearborn
Hetherington, Jno. T., 60 W Washington
*Hettinger, John P., 3046 N Clark
Heun, Arthur, 64 E Van Buren
Higgins, Francis J., 2928 Evanston av
*Hill & Woltersdorf, 138 N Lasalle
Hine, Cicero, 263 Wabash av
Hobbs, Raymond M., 6065 Jefferson av
Hodgdon, Chas., 206 Lasalle
Hodgkins, Howard G., 179 W Washington
Hoellerd, Rudolph, 1968 Dayton
Hoermann, Carl, 205 N Clark
Hoffman, H. Curtis, 418 N Harvey av
Hohagen, Paul, 138 N Lasalle
*Holabird & Roche, 1618 Monadnock bldg
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Holmboe, Leonard C., Illinois Steel Co., S
Holmes, Morris G., 8 S Dearborn Chicago
Holmes, Nicholas H., 3648 Lake av
Hoskins, John M., 2837 W Madison
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Houda, Jos. F., Roanoke bldg
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*Huehl & Schmid, 154 W Randolph
Hughes, Andrew P., 423 W 69th
Hulla, John, 140 S Dearborn
Hunt, Jarvis, Monadnock bldg
Hunt, Llegh Bryant, Harvester bldg
Hussander, Arthur F., 143 Dearborn
Hyde, Robt. M., 226 Lasalle
Hyland, Paul V., Heyworth bldg
Ingalls, Arthur R., 7207 Yale av
Ingram, Horace C., 140 S Dearborn
Jaffray, Henry S., 1121 E 63d
Jenkins, Austin D., New York Life bldg
Jenney, Mundie & Jensen, 171 Lasalle
Jillson, Byron H., 6718 Union av
Jobson, C. Frank, Pullman bldg
Johnson, J. Richard, 1841 S Ayers av
Johnson, Oscar, 3410 Sheffield av
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Jyrch, Karl E., 2318 Washington blvd
Kaiser, August, 2754 Harrison
Kaiser, Otto, 2530 Milwaukee av
Kalial. Chas. W., 1512 S St. Louis av
Kallenbach, Henry, Jr., 1828 Cornelia av
Karbach, Chas. W., 3928 Grenshaw av
Kelley, Irving W., 127 N Dearborn
Kingsley, George S., 186 N Lasalle
Kirkpatrick, Robt. A., 746 E 48th
Klafter, David Saul, 127 N Dearborn
Klewer, Geo. W., 942 Windsor av
Klewer, Wm. L., 109 Randolph
Klucina, John, 3918 W 26th
Knox, Arthur H., Tribune bldg
Knudson, Johan F., 5 N Lasalle
Koenig, Fred, 138 Washington
Kohfeldt, Walter G., 651 31st
Koll, Henry G., 2155 Elston av
Koster, John L., 115 S Dearborn
Krause, Edmund R., Majestic Theatre bldg
Krieg, Wm. G., 179 W Washington
Kuehne, Carl Oscar, 1572 N Halstead
Kupfer, Otto A., 1865 Millard av
Lang, Albert, Chicago Savings Bank bldg
Lang, Fritz, 1034 Milwaukee av
Larmon, Philip, care Swift & Co., U. S. Y.
Layer, Robert, 2710 Millard av
Lebenbaum, F. C., 5247 Cornell av
Lehle, Louis, 103 Randolph
Levy, Alex. L., 32 N Clark
Lewis, John, 2414 Gladys av
Leidberg, Hugo J., 153 W Randolph
Linderoth, Swen, 5844 S Elizabeth
Lindquist, Fred'k, 154 W Randolph
Lindstrom, R. S., 1129 Hyde Park blvd
Llewellyn, Jos. C., First Nat'l Bank bldg
Llewellyn, Ralph C., 38 S Dearborn
Lonek, Adolph, Roanoke bldg
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Lovedall, Geo. F., 822 Greenwood terrace
Lovell, Sidney, 38 S Dearborn
Lowden, Alex. H., 154 W Randolph
Lowe, Elmo C., Corn Exchange Bank bldg
Ludgin, Jos. J., 4919 Vincennes av
Luebkert, Otto, 12 N Clinton
Lund, Anders G., 602 W 63d
McCall, Thos., 1710 Railway Exchange bldg
McCarthy, Jos. W., 945 Wilson av
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McMulien, Henry J., 127 N Dearborn
McMurray, Oscar L., 10425 Seeley av
Mahaffey, David, 118 W Lasalle
Maher, Geo. W., 910 S Michigan av
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Maurer, William, 668 Augusta
Mayo, Ernest A., 140 S Dearborn
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Miller, Walter F., Orchestra bldg
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Mills, Albert B., 3133 Logan blvd
Mitchell, Louis M., 9 S Lasalle
Mohr, Fred'k J., 1224 N State
Molitor, Jos., Jr., 169 W Washington
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Moratz, Paul O., 38 S Dearborn
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Mosher, E. Bradford, 5830 Rosalie court
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Neebes, Geo. S., 5222 Indiana av
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Neu, Matthew, 151 93d
Newberry, Robert Thorne, 184 Lasalle
Newell, Frank V., 279 Dearborn
Newhouse, Henry L., 4630 Prairie av
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Nicholson, Wm. A., 6541 Greenwood av
Nielson, Carl, Tacoma bldg
Niemz, Arthur R., 253 Lasalle
Nimmons, Geo. C., People's Gas bldg
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Novy, Ludwig, 3225 W 22d
Nyden, John A., Schiller bldg
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Rawson, Lorin A., 64 E Van Buren
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Reily, Solen L., 612 W 72d
Renwick, Edw. A. (See Holabird & Roche), Monadnock bldg
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Rich, Chas. C., 64 E Van Buren
Rich, Evert, 234 Lasalle
Rich, Harry Folsom, 315 Dearborn
Richards, Henry H., 125 W Van Buren
Riddle, Herbert H., People's Gas bldg
Riddle, Lewis W., 38 S Dearborn
Riegert, Emil, 2041 Racine av
Reinhardt, Gustav A., 1121 Wellington
Rinn, Chas., 3541 W Montrose av
Ritter, Louis E., 140 S Dearborn
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Robinson, Argyle E., 112 N Lasalle
Rogers & Woodyatt, Ashland blk
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Rusy & Rexney, 32 N Clark
Salisbury, Robert H., 2425 Adams
Sandegren, Andrew, 38 S Dearborn
Saxe, Albert M., 64 E Van Buren
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Schaffner, Dan'l J., 2035 Evergreen av
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Schlacks, Henry J., Borden blk
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Schmidt, Hugo, 2020 State
Schmidt, Richard E., Garden & Martin, 56 W Washington
*Schock & Swanson, 38 S Dearborn
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Schulze, Wm., 1514 Milwaukee av
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Speyer, Julius & Son, 179 W Washington
Spitzer, Maurice, 9 S Lasalle
Stanhope, Leon E., 108 S Lasalle
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Stern, Isaac S., Fort Dearborn bldg
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Stevens, Harry E., Monadnock blk
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Thisslew, Chas., 783 Milwaukee av
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Vigeant, Gregory, 171 Washington
Vitzthun, Karl M., 5341 Washington blvd
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Von Holst, Hermann V., 64 E Van Buren
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Witherspoon, John M., Monadnock blk
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Youmans, Wm. A., 154 W Randolph
Youngberg, John E., 30 N Dearborn
Zarbell, Iver C., 97 Clark
Zidek, Jos., 1859 W Chicago av
Zimmerman, Hugo H., 108 S Lasalle
*Zimmerman, W. Carbys, 64 E Van Buren
Zippwald, Otto P., 1605 Belmont av

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McNabb, Wm. O.
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Cowell, Herbert, 1 Jefferson
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Whitsitt, Hammond W.
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Fiddelke, H. G., 201 W Lake
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Poulson, Geo. F., 643 N Elmwood av
Roberts, Eben Ezra, 101 Marion
Thompson, F. D., 111 Marion
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Wright, Frank L., Forest & Chicago avs
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Emerson, Frank N., 321 Main
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Hewitt, Herbert E., 321 Main
Hotchkiss, R. J., Herald-Transcript bldg
Hulsebus, B. L., Y. M. C. A. bldg
Jobst, Valentine, Jobst bldg
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ohnson, Jesse T. & Co., State Life bldg
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Padgett, Chas., Odd Fellows' bldg
Scott, Charles E., Beach blk
Sherman, James Merrill, 1504 2d av
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Vrydagh, Robt. T., McKeen blk
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Brown Bros. Co.
Burgess, Wm.
Dieman, Chas. A. & Co., Granby blk
*Josselyn & Taylor Co.
Mayberry, R. R.
Richards, D. W.
CENTERVILLE—†Staley, B. S. Co.
CHARITON—Houghland, O. A.
CHARLES CITY—Campbell, Arthur
CHEROKEE—Stoddard, Chas.
CLINTON—Morrill, John & Son
Nelson, C. N.
Wiebley, W. F.
COUNCIL BLUFFS—Cox, Friederich T.
†Jensen, Bros. Co.
Sharpe, Clyde
Woodward, Jno. C.
DAVENPORT—*Clausen, F. G. & R. J., Central bldg
Ebeling, Arthur H., Security bldg
Hanssen, Gustav A., Schmidt bldg
Harfst, D. T., Schmidt bldg
Holbrook, E. G., Whitaker bldg
Ross, John W., 212 Brady
Spink, Chas. R., McManus bldg
*Temple & Burrows, McManus bldg
DECORAH—Bucknell, Wm. S.
DENISON—Barber & Glenn
DES MOINES—Barton, Wm. C., Youngerman bldg
Boutin, Chas. W., 1126 Walker
Eastman, C. E. Co., 402 Locust
Hallett & Rawson, 304 6th av
Kraetsch & Kraetsch, Flynn bldg
Liebbe, Nourse & Rasmussen, 724 Walnut
MacDonnell, Jas., 432 Chestnut
O'Connor, Jno., 216 6th av
Proudfoot & Bird, Flynn bldg
Sawyer & Watrous, Watrous bldg
Wetherel & Gage, Youngerman blk
DUBUQUE—Beck, Guido, 8th & Main
Carkeek, Thos. T., Lincoln bldg
*Heer, F. & Son, 8th & Iowa
Heer, Martin, 13th & Clay
*Spencer, John. Bank & Ins. bldg
ESTHERVILLE—Cox, Jas. S.
Jefferis, A. M.
FORT DODGE—Albright & Bradford
Reely, T. W.
INDEPENDENCE—Netcotte & Donnan
IOWA CITY—Carpenter, O. H.
†Wickham, B. A.
KEOKUK—Ratcliffe, H. E.
MARION—White, L. E.
MARSHALLTOWN—Eckman, Chas.
MASON CITY—Bogardus, E. R.
Burgess, R. B.
MUSCATINE—Zeidler, H. W.
OSAGE—Stoughton, G. A.
OSKALOOSA—Wetherell, Frank E.
OTTUMWA—Fielder, Frank, 116 E Main
Kerns, Geo. M., 211 E 2d
Koch, Ernest, Hoffman blk
Throne, H. E., Leighton bldg
SIOUX CITY—*Beach, Wilfred W., United Bank bldg
Burkhead, G. W., Grain Exchange bldg
Colby, F. E., Farmers' Loan & Trust bldg
Dickey, T. J., 3260 Hawthorne av
Reinecke & Jenkinson, United Bank bldg
Steele, Wm. I., United Bank bldg
WATERLOO—Burkett & Peddicord
Cleveland, M. B.
Ralston, J. G.
Shockley, Clinton P.
WAYLAND—Schwartz, C. K.
WEBSTER CITY—White, J. R.
WHAT CHEER—Palmer, J. N.

## KANSAS.

CHANUTE—Johnson, D. D.
COFFEYVILLE—Colby, Geo. S.
EMPORIA—Brinkman, H. W.
Squires, Chas. W.
FORT SCOTT—Huff, Walter S.
GLASCO—Olmstead, J.
HAYS CITY—Wolfe, G. R.
HUTCHINSON—Kelso, Mann & Gerow
Nethercut, Wm. S.
INDEPENDENCE—Bender, F. N.
Fletcher, F. F.
IOLA—Keery, E. W.
KANSAS CITY—Bowman, Chas. S., 524 Minn. av
Harris, Wm. E., Portsmouth bldg
Langworthy, F. W., Pennington Hotel bldg
Skuse, Rich H., 1400 N 28th
LAWRENCE—Wellman & Blair
LEAVENWORTH—Feth, Wm. P.
MANHATTAN—Hill, Harry H.
Winter, H. B.
NEWTON—Ross, W. L.
Skiff, G. H.
OTTAWA—*Washburn, Geo. P. & Son
PINE BLUFF—Lane & Mitchell
Seligman, Mitchell
PITTSBURG—Munn, G. J.
SALINA—Hair & Smith
†Wilmarth & Zerbe
TOPEKA—Chandler, Chas. H., Crawford bldg
Holland, J. C. & Son, 734 Kansas av
Lescher, Theo. H., 920 Monroe
Lieurance, Iva G., 608 Kansas av
Marshall, Joseph, 115 W 5th
Nielsen, N. P., Crawford bldg
Squires, Frank C., 628 Kansas av
Stanton, Jno. F., 835 Kansas av
Wood, L. M., 629 Kansas av
Yonkers, John, c o Santa Fe R. R. Office
WELLINGTON—Reece, O. T.
WICHITA—Charles, U. G., Winne bldg
Mampe, Wm., Beacon bldg
Parsons, F. F., Howe bldg
Rixie, F. D., Samuels bldg
Stringfield, W. R., Winne bldg
Terry, C. W., Michigan bldg

## KENTUCKY.

BOWLING GREEN—Fleenor, C. M.
Underwood, Robert
COVINGTON—Bausmith & Drainie, Gerke bldg
Holmes, H. S., Jr., 624 Madison
House, C. W. & Sons, 819 Madison
Kircher, W. C., 16th & May
Robertson, Lanham, Farmers' & Traders' Bank bldg
Schofield, Geo. W., 427 Madison av
Walker, Lyman, Farmers & Traders Bank bldg
CYTHIANA—§Stevens, Joseph R. & Co.
FRANKFORT—Oberwarth, Leo. L.
HENDERSON—Trible, E. S.
HOPKINSVILLE—Long, James L.
HOPKINSVILLE—Long, James L.
LEXINGTON—Anderson & Frankel
Goertz, Martin
*Rowe & Giannini
Smith & Bedford
LOUISVILLE—Collins, Val. P., Paul Jones bldg
Curtin, C. A., 401 W Main
Davis, Brinton B., Atherton bldg
Ehrhart, Fred, Norton bldg
Gaffney, J. J., 2nd & Walnut
Gray & Hawes, Louisville Trust bldg
Hallenberg, Adolph, 303 W. Main
Hillerich, E. W., Todd bldg

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Hutchings, J. B., Columbia bldg
Joseph, Alfred S. & Oscar G., Com'l. bldg
*Loomis & Hartman, Todd bldg
M'Donald & Dodd, Lincoln Bank bldg
*Maury, Mason, Board of Trade bldg
Meyer, Chas. D., Keller bldg
Murphy, D. X. & Bro., 140 S. 5th
Reuter, O. P., 105 S 5th
Smith, Arthur R., Norton bldg
Thomas & Bohne, Keller bldg
Wischmeyer, Herman, Kenyon bldg
Wolters, Henry, Board of Trade bldg
MOUNT STERLING—Williams, E. L.
NEWPORT—Glick, Jacob, 624 Monmouth
Raabe, Lawrence, 10 W 5th
Vogel, Chas., 707 Monmouth
Wilson, Louis H., 10 W 4th
NICHOLASVILLE—Askens, Samuel
Horin, E. E.
Murphy, J. H.
PADUCAH—Brainerd, Wm. L.
Lassiter, A. L.
SHELBYVILLE—†Gruber, Lynn T.

## LOUISIANA.

BATON ROUGE—Charlton, Chas. H., Jr.
Goodman, B. J.
COVINGTON—Jenkins, Chas. & Jno. L.
JEANERETTE—Lloyd, C. B.
LAFAYETTE—Anderson, B. F.
Morton, A. E.
Nicholson, W. L.
NEW IBERIA—Phillips, E. W.
NEW ORLEANS—Andry & Bendernagel, 211
Brown, Frederic W., 316 Baronne Camp
Brune, Theo., 922 Gravier
Burk, Wm. R., 435 Carondelet
Burton, Hayward L., 137 Carondelet
Chapman, Chas. E., 622 Commercial pl
Collow, Frank & Co., 316 Baronne
Cothran, Jno. A., 44 Carondelet
Crosby, Francis W., 219 Carondelet
Daunis, Fred'k, 137 Carondelet
De Armas, Edw., Jr., Perrin bldg
De Buys, Churchill & Labouisse, Hibernia bldg
Diboll, Owen & Goldstein (Ltd.), 305 Baronne
Donnes, Peter F., Jr., Herman bldg
Drago, B., 305 Baronne
Duval, Southron R., 606 Common
Favrot & Livoudais, 839 Gravier
Feldmann, Wm., 416 Carondelet
*Fitzner, Wm., 325 Camp
Fromherz & Drennan, 211 Camp
Fulham, Wm. F., 931 Canal
Gazin, Jas. J., 830 Canal
Geary, Walter N., Hennen bldg
Graveley, Frank P. & Co., 124 Carondelet
Hay, Alex., 127 Carondelet
Hite, Morgan D., 216 Baronne
Johnson, Herbert P., 606 Common
Jones & Roessle, 921 Canal
Kaiser, Wm. P., 727 Common
Keenan & Weiss, Hibernia Bank bldg
Koch, Julius, 219 Carondelet
Kohlman, Nathan, 527 Canal
Lagasse, Paul, 826 9th
Levy, Gordon S., Hennen bldg
†McCarthy, Richard, Jr., 305 Baronne
MacDonnell, Francis J., Hennen bldg
Mackenzie, H. Jourdan, 606 Common
Mohr, Oscar P., 830 Canal
Nolan, Wm. T., Hennen bldg
Pattison, Edw. B., Camp & Lafayette
Robelot, Albert N., 204 Canal
Shepard, Martin, 305 Baronne
Soule, Robert S., Hennen bldg
Sporl, Edward F., 606 Commercial pl
Stevens & Nelson Co., Hennen bldg
Stone, Guy, Hennen bldg
*Toledano & Wogan, 830 Canal
Torre, Peter, Jr., Hennen bldg
Trimble, Whitney, Baronne bldg
Weil, Emile, Whitney-Central bldg
Williams, C. Milo, Hennen bldg
SHREVEPORT—Armstrong, A. J. Co.
George, E. A.
Hyde, J. M.
King, Clarence W.
Neild, E. F.
Owens, Chas. W.
Snyder, John Y.
Snyder, John Y.

## MAINE.

AUGUSTA—Wing, A. G.
BANGOR—Crowell, C. Parker
Hodgins, Victor
*Mansur, Wilfred E.
Patterson, Fred'k A.
BAR HARBOR—Savage, Fred L.
Stratton, Milton W.
BATH—Frederic, Herbert P.
BRIDGTON—Abbott, Edw.
Proctor, John H.
CASCO—Batty, John
Batty, Joseph
DEXTER—Dexter, H. P.
EASTPORT—Newcomb, E. E.
HOULTON—Chadwick, John J.
KENNEBUNK—Barry, Wm. E.
LEWISTON—Coombs Bros.
LISBON FALLS—White, E. E.
MADISON—Snow & Humphrey
NORTHEAST—Condage, Chas. A.
PITTSFIELD—Hersey, Preston
PORTLAND—Burnham, Geo., 120 Exchange
Churchill, Frank M., 536 Congress
Desmond, G. Henri, 465 Congress
Fassett, E. F., 93 Exchange
Lane, Calvin S., 655 Congress
Miller & Mayo, 465 Congress
Pease, Austin W., 465 Congress
*Stevens, John Calvin, Oxford bldg
Stevens, Jno. Howard, Oxford bldg
Tompson, Fred'k A., Y. M. C. A. bldg
RUMFORD FALLS—Raynes, W. O.
TREMONT—Clark, Eben B.

## MARYLAND.

BALTIMORE—Aiken, Herbert C., 223 St. Paul
Anderson, Charles M., 324 N Charles
Anderson, Clarence E., 113 Ethelwood la
Archer & Allen, Central Savings Bank bldg
Baldwin & Pennington, Professional bldg
Beall, Fred. E., 213 St. Paul
*Brauns, Henry, Professional bldg
Carroll, T. George, Continental bldg
*Cassell, Chas. E., Law bldg
Crisp, Herbert G., Calvert bldg
Davis, Frank E. & Henry R., 220 St. Paul
Eckstine, J. Edmund, 20 E Lexington
Ellicott & Emmart, Union Trust bldg
Emmart, Paul, 210 W Fayette
Emory & Nussear, Professional bldg
Forrest, A. Lowther, Hoffman bldg
Forsythe, John R., 232 St. Paul
Fowler, Lawrence H., 347 N Charles
Frank & Kavanagh, 328 N Charles
Frederick, Geo. A., Hotel Sherwood
Freund, John, 210 E Lexington
Gerwig, Jacob F., 210 E Lexington
Gieske, Walter M., Gunther bldg
Glidden, Fritz, Glenn bldg
Haskell & Barnes, Wilson bldg
*Kennedy, T. C., 211 N Calvert
King & Barnes, 328 N Eutaw
Laferty, J. Edw., 11 Pleasant
Levi, Louis, American bldg
Margruder, Hugh S., 100 E Lexington
Maher, Jas. E., Maryland Saving Bank bldg
Mason, Alfred, 746 W Baltimore
Morris, Geo. R., Gunther bldg
Mottu & Whyte, 322 N Charles
Owens & Sisco, Continental bldg
Parker, Thomas & Rice, Union Trust bldg
Pietsch, Theodore W., American bldg
Potter, Abraham S., 105 Augusta av
Sill, Howard, 11 E. Pleasant
Simonson, Otto G., American bldg
Smith, Wilson Levering, Law bldg
Sperry, Joseph E., Calvert bldg
Stack, Jno. K., 12 E Lexington
Tinley, Henry J., 314 N Charles
Tormey, Francis E., Law bldg
Turnbull, Bayard, 328 N Charles
Tuzo, Paul B., 218 W Saratoga
Ullrich, Robt. G., Gunther bldg
Wilson, J. A., Law bldg
Worthington, Geo., Law bldg
*Wyatt & Nolting, Keyser bldg
CUMBERLAND—Butler, Wright
Sansbury, Geo. F.
Taylor, Wm. T.
HAGERSTOWN—Klinkhart, A. J.
Mack & Kountze
Yessler, Harry E.
NEAVITT—Strom, William
PIKESVILLE—Watts, Albert S.
POCOMOKE CITY—Stevenson, R. M.
ST. MICHAELS—Dodson, H. C.
SALISBURY—Mitchell, T. C.
WESTMINSTER—Case, Paul

## MASSACHUSETTS.

ADAMS—Fleming, J. M.
ATHOL—Boyden, Mason A.
ATTLEBORO—Higgins, Olstin M.
AYER—Stacy, D. E.
BEVERLY—Blarse, Chester A.
Briggs, Frederick A.
Fanning, James
Grush, Charles E.
Harmon, William
Swan, George
BOSTON—Adden & Parker, 12 Bosworth
Alden, Henry B., 15 Exchange
Allen & Collins, 40 Central
Ames, John W., 15 Exchange
*Andrews, Jacques & Rantoul, State Mutus
Andrews, W. H., 101 Tremont Lif
*Atherton, Walter, 13 Exchange
Atwood, Harrison H., 61 Alban
Austin, Chas. D., 128 Neponset av (Dor.)
Bacon, Lewis H., 27 School
Bacon, Willard M., 27 Kilby
Baker, Chas. M., 6 Hancock av
Baker, Moses E., 31 Beacon
Bateman, C. J., 293 Washington
Beal, J. William, 62 Summer
Bellows, Robt. P., 8 Beacon
Benton, E. R., 67 Milk
Berry, J. Lawrence, 27 Dunreath (Rox.)
Besarick, John H., 185 Summer
Besarick, Wm. H., 13 School
Bigelow & Wadsworth, 3 Hamilton pl
*Blackall, C. H., 20 Beacon
Blaikie, Edwin K., 110 State
Blinn, Alfred M., 89 State
Bond, Newton C. Co., 88 Broad
Bosworth, Geo. F., 156 Bay State rd
*Bourne, Frank A., 70 Kilby
Bowditch, Arthur H., 7 Water
Boyden, Ernest N., 85 Water
Brainerd & Leeds, 89 Franklin
Brigham, Chas. A., 85 Water
Brigham, Coveney & Bisbee, 184 Boylston
*Brown, Samuel J., 164 Federal
Brown, Willard D., 15 Beacon
Carlson, Harry J., 89 State
Carpenter, A. J., Jr., 39 Dunreath
Chandler, H. S., 31 Beacon
*Chandler, Jos. Everett, 31 Beacon
Chapman, E. R. B., 309 Washington
Chapman, Wm., 15 Ashburton pl
*Chapman & Frazer, 112 Water
Chase, Wm. C., 8 Marlboro
Chickering & O'Connell, 18 Boylston
*Codman & Despradelle, 31 Beacon
Cogswell, Chas. N., Old South bldg
*Coit, Robert, 85 Water
Colby, H. W., 46 Cornhill
Collett, Wm. C., 50 Bromfield
Connor, G. Prescott, 18 Dawson, Dor
*Coolidge & Carlson, 89 State
Cooper & Bailey, 89 Franklin
*Cram, Goodhue & Ferguson, 15 Beacon
Cummings, C. K., 8 Beacon
Cutter, Olin W., 683 Atlantic av
Dana, Edw. P., 112 Water
*Darrow, Alfred L., 113 Devonshire
Davidson, Harry E., Allston
Derby, Robinson & Shepard, 20 Beacon
Desmond, G. Henry, 15 Beacon
Dillaby, Frank H., West Somerville
Dinsmoor, Wm. W., 28 School
Dudley, Wm. N., 46 Cornhill
Dunham, Chas. B., 6 Beacon
Dykeman & Murray, 27 School
Eskrigge, Frank T., 17 Milk
Everett, Arthur G., Old Court House
*Fernald, Geo. P., 70 Kilby
*Finneran, Geo., Old Court House
Fisher, Louis, 6 Beacon
Fisher, Richard A., 101 Tremont
Fockens, R., West Roxbury
Fowler, J. Candler, 34 School
Fowler, J. Sumner, 19 Milk
Fox, Benjamin, 15 Exchange
*Fox, John A., 120 Tremont
*Fox & Gale, 3 Park
Freethy, Wm. J., 85 Water
French, Arthur E., 6 Beacon
Fuller, Geo. A., 18 Tremont
Funk & Wilcox, 15 Beacon
*Gay & Proctor, 50 Bromfield
*Godfrey, Chester N., Wollaston
Gowing, Frederick H., 18 Tremont
Graham, Edward T. P., 20 Beacon
Gray, Arthur F. (Mill), 53 State
Gray, Ralph W., 8 Beacon
Greco, Charles R., 8 Beacon
Greenleaf, L. C., 101 Tremont
Griffin, Tristram, 114 State
Guppy, Geo., 53 State
Halden, John C., 85 Water
Hall, Albert G., 46 Cornhill
Hamilton, Bradford, 163 Oliver
*Hartwell, Richardson & Driver, 62 Devo
Hasty, John A., 46 Cornhill shi
*Henderson, Walter P., 144 Congress
Hettinger, C. F. & Co., 1140 Columbus av
*Hill, Warren C., West Somerville
Hinds, Fred S. (Mill, etc.), 19 Milk

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Howe, Geo. B., 79 Milk
Howe, Louis L., 717 Tremont bldg
Hoxie, Edw. E., 420 Boylston
Hoyt, Clarence P., 8 Beacon
Hubbard, Henry V., 101 Tremont
Hughes, Thos. R., 141 Milk
Hurd & Gore, 8 Beacon
Hutchins & French, 6 Beacon
Huchison, Jas. G., Paddock bldg
*Ingraham, G. H., 2A Park
*Jackson, Allen W., 6 Hancock av
*Jacques, Herbert, 50 Congress
James, Thos. M., 15 Ashburton pl
**Jenney, Alex. S., 50 Bromfield**
*Jones, I. Howland, 50 Congress
*Kahlmeyer, John, 6 Beacon
**Kelley, James T., 57 Mt. Vernon**
Kelley, Samuel Dudley, 209 Wash'n
Kelly, John W., 5 Fort av
*Kendall, Frank A., 53 State
*Kendall, Taylor & Co., 93 Federal
Keyes, Henry F., 161 Devonshire
*Kilham & Hopkins, 9 Park
Lavalle, John, 7 Water
Lawley, F. D., 696 E 1st
Lawrence, Amos A., 3 Hamilton pl
LeBoutillier, Addison B., 101 Tremont
*Lee, James S., 6 Beacon
*Lewis, Edwin J., Jr., 9 Park
Lewis, G. Wilton, 34 School
Lewis, Wm. Whitney, 15 Exchange
Litchfield, Lemont D., 6 Beacon
*Little, J. Lovell, Jr., 15 Beacon
*Little & Browne, 70 Kilby
Lockwood, Greene & Co., 93 Federal
*Longfellow, A. W., Tremont bldg
*Longfellow, R. K., Tremont bldg
*Loring & Phipps, 53 State
*Loud, Joseph Prince, 85 Water
*Lowell, Guy, Tremont bldg
Luippold, Jacob, 89 Mozart
McAfee, Chas. H., 166 Devonshire
McClintock, John T., 15 Exchange
McFarland, C. T., 46 Cornhill
McFarland & Colby, 48 Cornhill
McGinty, Wm. H., 101 Tremont
McLean & Wright, 110 Tremont
Main, Chas. T., 201 Devonshire
*Maginnis & Walsh, 100 Boylston
Maynard, E. W., Barristers' Hall
*Mead, Samuel W., 15 Beacon
Moffette, George, 201 Devonshire
Moore, Geo. A., 70 Kilby
Morrell, Wm. L., 50 Broomfield
*Morrison, Wm. L., 70 Kilby
*Morton, H. W., 93 Federal
*Mulcahy, James, 683 Atlantic av
Murray, John F., 27 School
Murray, Leon B., Inc., 6 Beacon
Murray & Hutchinson, 101 Tremont
Nevin, Chas. K. B., 6 Beacon
*Newhall & Blevins, 9 Park
*Newton, Geo. F., 6 Beacon
Nichols, Edward, 70 Kilby
Nickerson, Frank E., 46 Cornhill
Noble, Clinton, 52 Kilby
Norcross, F. A., 46 Cornhill
Norris, F. Edgar, 2A Park
O'Grady, Thomas, 149 Mt. Vernon, W R
Oliver, Edw. H., 6 Beacon
Oliver, Litchfield & Rawson
Orr, Hugh, 46 Cornhill
Page & Frothingham, 87 Milk
Park, Lawrence, 8 Beacon
*Parker, Thomas & Rice, 110 State
Parker, Winthrop D., 12 Bosworth
*Parsons, G. E., 93 Federal
*Patch, Chas. E., 52 Kilby
*Peabody & Stearns, 53 State
Peare & Quiner, 15 Beacon
*Perkins, Chas. Breen, 140 Boylston
Perkins, Harland A., 194 Boylston
*Phillips, Henry A., 120 Tremont
Phipps, Sanford, 53 State
Pinkham, A. B., 2604 Washington Box
Pope, Fred, 622 Tremont bldg
Powell, Frances G., 117 Wash'n Dor
Powers, Richard W., Old Court House
Pray, Hubbard & White, 101 Tremont
Prescott & Sidebottom, 113 Devonshire
Preston, Henry J., 112 Water
*Preston, Wm. Gibbons, 6 Beacon
Proctor, Benjamin, Jr., 46 Cornhill
*Purdon, James, 8 Beacon
Putnam, Elliott T., 96 Beacon
*Putnam, John Pickering, 535 Beacon
*Putnam, John Pickering, 535 Beacon
Putnam & Allen, 31 Beacon
Putnam & Cox, 6 Hancock av
Ramsay, H. M., 22 Chapman pl
Rantin, Samuel J., 1117 Columbus av
Rantoul, W. G., 6 Beacon
Rawson, Edw. L., 6 Beacon
Reid & McAlpine, 110 Tremont

*Richards, Wm. P., 112 Water
Richardson, A. G., 9 Cornhill
Richardson, Barrott & Richardson, 31 State
Ripley, Hubert G., 101 Tremont
Ritchie, Jas. H., 8 Beacon
Rowe, Henry W., 161 Devonshire
Rowe & Keyes, 161 Devonshire
Russell, C. A. & F. N., 50½ Warren (Rox.)
Russell, H. B., 9 Park
*Sargent, T. M., 172 Tremont
*Sawyer, Ralph E., West Roxbury
Schaeffler, Joseph C. & Co., 73 Tremont
*Schweinfurth, J. A., 35 Congress
Shaw, Thos. M., 15 Beacon
Sheehan, T. Edw., 945 Tremont bldg
*Shepley, Rutan & Coolidge, 122 Ames bldg
Sidebottom, G. H., 67 Milk
*Smith, Geo. L., 20 Central
Smith, Jno. J., Old South bldg
Snow, E. A., 18 Tremont
*Somes & Parsons, 101 Tremont
Stebbins & Watkins, 164 Federal
Stevens, Edw. F., 9 Park
Stewart, Edmund T., 144 Congress
*Stickney & Austin, 50 Bromfield
Stratton, E. B., 16 State
*Sturgis, R. Clipston, 120 Boylston
Sullivan, Matthew, 100 Boylston
Sylvester, Edmund Q., 31 Beacon
Taylor, W. Hart & Son, 50 Broomfield
Thayer, O. A., 89 Franklin
Thompson, S. Bayard, 15 School
*Tilden, Geo. T., Old South bldg
Tobey, S. Edwin, 110 Summer
Turner, Alfred C., 683 Atlantic av
*Untersee, F. Joseph, 49 Federal
*Vaughan, Henry, 1011 Pemberton bldg
Vinal, Artnur H., 19 Milk
Vinal, Ralph S., 46 Cornhill
*Wakefield, F. Manton, 9 Park
*Wales, Geo. C., 201 Devonshire
Walker, Ambrose W., 9 Cornhill
Wardner, Herbert L., 93 Federal
Warren, Clinton J., 294 Washington
Warren & Gerrish, Exchange bldg
*Warren & Smith, Equitable bldg
Watson, Robert A., 38 Hillside
Weaver, Arthur N., Old South bldg
West, Albert E., Dorchester
Wilson, Edward I., 101 Tremont
Woodbury, Daniel H., 53 State
Wright, Alonzo D., 40 State
Wright, Jas. Hayden, 8 Beacon

BRIDGEWATER—Dow, R. N.
BROCKTON—Barlow, W. F., Jr.
  Falk, Geo. L.
BROOKLINE—†Freeman, Harry S., 24 Littell rd
CAMBRIDGE—Bartlett, C. H., 579 Mass av
  Douglas, Nathan, 307 Harvard
  *McClare, C. Herbert, 649 Massachusetts av
CAMBRIDGEPORT—(See Cambridge)
CANTON—Capen, G. W.
CHELMSFORD—Clark, Edwin R.
CHELSEA—Bell, E. L.
  Brazillian, James A.
  Joll, Harry D.
  Kalman, Max M.
  Levy & Fox
  Maggi, Alfred
  Westwood, John
  Wigglesworth, Victor H.
CLINTON—Thissell, Horace A.
COHASSET—See Boston
DALTON—Turner, W. L.
EVERETT—Wood, Geo. H.
FAIRHAVEN—Bisbee, Henry V.
FALL RIVER—Corbett & Higgins, 70 Bedford
  Darling, J. M., 56 N. Main
  Destremps, Louis G. & Son, 56 N. Main
  Jackson, Ralph T. C., 58 Bedford
  Marble, Chas. H., 367 Robeson
  Marvell, E. L., 57 N Main
FITCHBURG—Francis, Henry M. & Sons
GARDNER—Boutelle, Cyrus F.
GLOUCESTER—Phillips, Ezra L.
  Spooner, Fred'k C.
GREAT BARRINGTON—Ambach, Geo. A. Co.
GROTON—Park, Lawrence
HAVERHILL—Damon, C. Willis
  Evans, Robt. R.
  Perkins & Bancroft
HOLYOKE—Alderman, Geo. P. B. & Co.
  Beauchemin, Oscar
  Clough, J. A., 281 Hampden
  Ellsworth & Howes, 356 Dwight
  Howes, W. J., 235 High
  Reid, Wm. B., 280 High
HOPKINTON—Phipps, Sanford
HYDE PARK—Harding, Wm. E.
  Higgins, Olstin M.
LAKEVILLE—Anderson, W. L.

LAWRENCE—Adams, Geo. G., 288 Essex
  Allen, J. E., 283 Essex
  Ashton & Huntress, 477 Essex
  Cullinane, Richard, 288 Essex
  Knapp, J. G., 288 Essex
  Regan, Wm. P., Essex Savings Bank Bldg.
  Smith, Horace H. (mill), Bay State Bldg.
  Wilde, Samuel H., Bay State bldg
LEE—Moul, H. S.
LEOMINSTER—Lent, Frank T.
  Page, Leroy J. (Arch. & Mill Engr.)
LITTLETON—Woodbury, D. H.
LOWELL—Davis, Millard F., Hildreth bldg
  Floyd, Warren L., 124 Stevens
  Gardner, Everett M., 198 Holyrood av
  Gilbert, Perley F., 53 Central
  Graves, Harry Prescott, Glidden bldg
  Moody, Leonard T., 25 Lane
  Roach, Jos. S., 40 Middlesex
  Rourke, Henry L., Hildreth bldg
  Stickney & Austin, Hildreth bldg
LYNN—Burk, Michael F., 333 Union
  Earp, Edwin, Jr., 333 Union
  Rogers, Hamilton E., 25 Exchange
  Rogers, Henry W., 25 Exchange
  Sanborn, Dana A., 38 Exchange
  Varney, Penn, 25 Exchange
  Wheeler & Betton, 59 Exchange
MALDEN—Lewis, G. Wilton
MARLBORO—Bigelow, James F.
MELROSE—Dow, Lewis, A.
MILFORD—Collins, Walter L.
  Cook, Rob't Allen
NEW BEDFORD—Bullard, E. G., O. F. bldg
  Destremps, Lewis E., N-B Theatre bldg
  Hammond, C. & Son, 179 N Water
  Smith, Nat. C., Merchants Bank bldg
  Williams, John, 77 Merrimack
NEWBURYPORT—Adams, R. G.
  Knight, Carl M.
NEWTON—Fisher, Gurdon R., 263 Lave av.
  Gay, Jos. B., 43 Bracebridge rd, N C
NEWTON CENTER—Appleton, W. Cornell
  Freethy, Wm. J.
NEWTON LOWER FALLS—Spring, R. C.
NORTH ADAMS—Barlow, Edwin T.
NORTHAMPTON—Putnam, Karl Scott
PITTSFIELD—Harding & Seaver, 7 North
  Haynes, Geo. E., 311 North
  McLaughlin & Siebert, First Nat'l Bank
  Vance, Jos. M., 24 North bldg
  *Wilson, H. Neill, 24 North
PLYMOUTH—Goddard, Fred A.
READING—Davis, Chas.
SALEM—Balcomb, Edwin B., 228 Sussex
  Bickford, John H., 34 Buffum
  Dennis, Wm. D., 40 Buffum
  Fanning, Geo. H., 221 Essex
  Rantoul, Wm. G., 19 Chestnut
SOMERVILLE—Buckley, Elmer, 47 Rogers av
SOUTHBRIDGE—Clemence, G. H.
SOUTH FRAMINGHAM—Barnes, Chas. E.
  Clark, Eugene L. & Son
SPRINGFIELD—Allen, Chas. W., 138 Marion
  Bassett, Roy D., 53 Hillman
  Cobb, Albert W., 15 Elm
  Dion, Geo. P., 104 Dwight
  Donahue, J. W., 427 Main
  Foster, John W., 118 Allen
  Gardner, E. C. & G. C., 33 Lyman
  Green, Sam'l M (Inc.), 318 Main
  *Kirkman & Parlett, 25 Harrison av
  Le Vere, C. Fay, Long Meadow
  Perkins, Lyman H., 53 Jefferson av
  Pyne, Geo. R., 31 Elm
  Rogers, Wm. H., 49 Lexington av
  Seabury, B. Hammett, Besse bldg
  Strasse, Jno. G., Court House
  Taylor, G. Wood, 425 Main
  Wozny, Bruno, 381 Main
SWAMPSCOTT—Burgess, Chas. V.
TAUNTON—Park, Walter L.
  Smith, Gustavus L.
WABAN—Bacon, Lewis
WAKEFIELD—Perkins, Harland A., 10 Pearl
WALTHAM—Ryan, Ida A., 19 Hammond
  Strout, Geo. E., 39 Fiske
WELLESLEY HILLS—Brainerd, Wm. H.
  Stevens, Chas. F.
WESTFIELD—Holton, Augustus W.
  Tinker, Clifford A.
WESTON—Jenny, Alex. S.
WEYMOUTH—Vining, Jno. F.
WORCESTER—Carlson, Edwin, 54 Hermon
  Chapin, Edwin T., State Mutual bldg
  *Clemence, Geo. H., 205 Walker bldg
  Coulson, Fred'k, Walker bldg
  *Cutting, Carleton & Cutting, 44 Front
  Doherty, Peter J., State Mutual bldg
  *Earle, Stephen C., 339 Main
  Fisher, Clellan Waldo, State Mutual bldg
  Fitzgerald, Edward P., State Mutual bldg
  *Frost, Briggs & Chamberlain, Slater bldg
  *Fuller & Delano Co., 452 Main

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Harvey, Wm. H., 311 Main
Hoyle, Chas. R., State Mutual bldg
Jacques, Urgel, 314 Main
Kingston, John P., 518 Main
Lathrop, E. A., 9 Dover
Lebeau, Adolph, 26 Vernon
*Lincoln, Chas. H., 6 Park av
Nault, Onesime E., 8 Wall
Newton, B. S., 1125 Pleasant
Norton, Edgar W., 31 Oberlin
Pierce, Ralph B., 476 Main
Rice & Storrs. 339 Main
Topanelian, Edw., State Mutual bldg
Tribe, Geo. T., 306 Main
Wolfenden & Ziroli, 518 Main

## MICHIGAN.

ADRIAN—Matthes, C. F. & Son
ALMA—Chase, J. G.
Wood, E. M.
ANN ARBOR—Foster, Jno. P.
Lorch, Emil
Pipp, Herman W.
Scott, Geo.
Stanton, S. Mc.
Zells, L. F.
ARMADA—Dickens, Chas. B.
BATTLE CREEK—Arnold, E. W.
Carney, Maurice P.
Halladay, Wm. H.
Ordway, A. D.
BAY CITY—*Clark & Munger
Floeter, P. C.
Pratt & Koeppe
BENTON HARBOR—Lindenfeld, A. S.
McKellar, J. D.
BLISSFIELD—Dickinson, D. E.
CALUMET—Hessenmueller, Frank W.
CARSON CITY—Heaton, H. G.
COMMERCE—Darling, Thomas
DELRAY—Kinnell, Joseph
DETROIT—Allen & Hill, Detroit Gas Co. bldg
Baldwin, F. C., Union Trust bldg
Barcroft, Fred'k T., Ford bldg
Baxter & Odell, Hammond bldg
Braun. Geo. H., Union Trust bldg
Butterfield, Wells D., Stevens bldg
Carleton, Frank E., 623 4th av
Chamberlin, Harry W., Taylor & Wood
Clements, Hugh B., Tolsma bldg
Coquard, Leon, 169 First
Crittenden & Kotting, Ford bldg
Darlin, H. J., Majestic bldg
Dederichs, Peter, Chamber of Com. bldg
Donaldson & Meier, Penobscot bldg
Falkinburg & Miller, Goebel bldg
French, Albert E., Tolsma blk
Gies, Rowland C., Wayne Co. Bank bldg
Goff, Chas. A., 199 Breckenridge
Graves, Geo. Wm., Rowland bldg
Gregory, E. W., cor. Smith & Wood av
Harley & Atcheson, Bank Chambers
Hunter, Wm. E. N., Cham. of Com. bldg
Joy, Wm. S. & Co., Ferguson bldg
Kahn, Albert, Trussed Concrete bldg
Kamper, Louis, Fine Arts bldg
Kastler, Jos. G. & Co., Chamber of Commerce bldg
Koehler, Chas. W., 818 Chamber of Commerce bldg
*Malcolmson & Higginbotham, Moffat bldg
Mason, Geo. D., 80 Griswold
Mildner & Eisen, Hammond bldg
Miller, John Lawson, Goebel bldg
Mills, Joe E., Washington Arcade
Mueller, Gustave A., Ferguson bldg
Nettleton & Weaver, Penobscot bldg
Oberson, Sam'l G., 322 Sidney av
Phillips, T. G., Breitmeyer bldg
Pickell, F. Gordon, Union Trust bldg
Pollmar & Ropes, Cleland blk
Pottle, Geo. V., Detroit Gas Co. bldg
*Raseman, R. E., Penobscot bldg
Reed-Hill, Wm., Ford bldg
Rice, Zachariah, 57 Fort, W
Rill, Harry J., Grand River & 15th
*Rogers & Macfarlane, Penobscot bldg
Schilling, E. A., Union Trust bldg
Scott, John & Co., Ford bldg
Shiels & Allister, Bamlet bldg
Smith, Sheldon O., Home B'k bldg
Smith, Hinchman & Grylls, Wash'n Arcade
Spier, Rohns & Gebrke, Chamber of Commerce bldg
Stahl, John C., Jr., Detroit City Gas Co. bldg
*Stratton & Baldwin, Union Trust bldg
Van Leyen & Schilling, Union Trust bldg
Varney, Almon C. & Co., Equity bldg
Vollmer, Wm. H., Cham. of Com. bldg
Walshe, Jas. J. & Co., Whitney bldg
Wardrop & Keil, 270 Woodward
Wetzel, B. C. & Co., Hammond bldg
Williams Bros., Whitney bldg
FLINT—Auten & Bickel
Edwards & Sterling
Emery, Thos.
Koepke Bros.
Rozof, Frank
Wood, Edgar M.
FREMONT—Koyl, Wm. H.
GRAND RAPIDS—*Allen, Frank P. & Son, Houseman bldg
Benjamin, Thos. & Son, 475 Lake av
Clarke, W. M., Houseman bldg
Crow, Henry E., The Gilbert
Daverman, J. H. & Son, Porter blk
Davis, J. L., 939 Rose
Godfrey, M. J., 206 Chatham
Kettle, C. F., 390 1st
Lindhout, Pierre, Ashton bldg
*Osgood & Osgood, Widdicomb bldg
*Robinson & Campau, Houseman bldg
Stone, G. L., 531 Widdicomb bldg
Thomson, C. O., 18 Gardner av
Vierhelig, C. G. Houseman bldg
Williamson & Crow, The Gilbert
HANCOCK—Liebert, H. S.
HARBOR SPRINGS—Mead, Earl H.
HERSEY—Goersman, B.
HOLLAND—Price, James
HOUGHTON—Macneil, Paul H.
IONIA—Waterbury, Orry
IRON MOUNTAIN—Lemieux, Jos.
JACKSON—Allen, Claire
Field, L. H., Jr.
KALAMAZOO—Albertsoan, Dan J. (Mill)
Gallup, Robert M.
LeRoy, R. A.
Locey, J. D.
Rose, Albert E.
Van Volkenburg, F. D.
LANSING—Bird, Edwyn A.
*Bowd, E. A.
Churchill, Judson N.
Moon & Spice
O'Donnell, Wm. M.
White & Butterworth.
LAURIUM—Maas Bros.
MAPLE RAPIDS—Hewitt, R. H.
MARQUETTE—*Charlton & Kuenzil
Gregory, H. H.
MENOMINEE—Hubert, Derrick
MOUNT CLEMENS—Van Damme, T.
NILES—Tillotson, W. I.
PAW PAW—Hathaway, A. A. & Co.
PONTIAC—Fisher Bros.
Prall, Edw. R.
PORT HURON—Erb, Isaac
Harvey, Geo. L.
ST. JOSEPH—Schwerdt, J. C.
SAGINAW—Beckhissinger, J. F.
Boergert, B. Franklin
Cooper, W. T. & Son
Cowles & Mutscheller
Hollister, F. W.
SAULT SAINT MARIE—De Mar, Edward
TRAVERSE CITY—Moore, F. E.
Petersen, Jens C.
WYANDOTTE—Pernot, Louis

## MINNESOTA.

AUSTIN—Hayes, P. J.
BEMIDJI—Johnson, Thos.
CAMBRIDGE—Lind, Jos.
CROOKSTOWN—Strassburger, E. H.
DULUTH—Bray & Nystrom, Fidelity bldg
Case & Bromhall, Alworth bldg
Hanford, Arthur, Sellwood bldg
Hessemueller, F. W., Sellwood bldg
Price, Vernon J. & Co., Palladio bldg
Puck & Holstead, Lyceum bldg
Radcliffe, E. S., Palladio bldg
Terryberry, Austin, Palladio bldg
Wagenstein, J. J., 401 Providence bldg
Young, Frank L. Co., Palladio bldg
HILBING—Case, D. V.
LAKE CITY—Alexander, E.
LUVERNE—Green, W. E. E.
MANKATO—Gerlach, H. C.
Pass, Geo. & Son
Schippel, Albert
MARSHALL—Fulton, H. P.
MINNEAPOLIS—Anderson, Fred, 2810 Bryant, S
Bell, Tyrie & Chapman, Auditorium bldg
Bertrand & Chamberlin, Bank of Com. bldg
Bird, C. E., 614 Corn Exchange
Blix, Anthony J., Temple Court
Boehme & Cordella, Kasota bldg
Bowler, S. J., 606 Globe bldg
Buffington, L. S., 2012 Sheridan av, S
Clausen, Arthur C., Lumber Exchange
Corser, Frederick G., N. Y. Life bldg
Dorr, A. L., Lumber Exchange
Downs & Eads, N. Y. Life bldg
*Dunnell, Warren B., Kasota bldg
Edwins & Eichenfeld, 11 S 7th
Elmslie, Geo. C., Auditorium bldg
Feick, Geo., Jr., Auditorium bldg
Halden, F. E., Kasota bldg
Haley, E. C., Northwestern bldg
Hewitt, E. H., 716 4th av, S
Hodgson & Westphal, 711 Northwestern bldg
Hoyt, B. T., Sec. Bank bldg
Hunt, W. S., Northwestern bldg
Jackson, Jerome P., Sec. Bank bldg
Jager, John, 5421 Upton av, S
Jones, Harry W., 916 Lumber Exchange
Kees & Colburn, Donaldson bldg
Keith Co., 1722 Hennepin av
Kendrick, F. B., N. W. Nat'l Life bldg
Kennedy, Ernest, Boston bldg
Kenyon, Wm. M., Guaranty bldg
Kinney & Jogerst, Kasota bldg
Lindstrom & Almers, N. Y. Nat'l Life bldg
Long, Lamoreaux & Long, 830 Hennepin av
Marshall, R. E., 92 S 7th
McElroy, C. T., Boston blk
Morell, Nicholls, 616 Palace bldg
Nutter, F. H., Sykes blk
Orff, F. D., 13-15 Lumber Exchange
Parsons, W. R. Son & Co., Phoenix bldg
Purcell & Feick, Auditorium bldg
Saxton, Glenn L., Security bldg
Sedgwick, C. S., Lumber Exchange
Setnan, Thomas, 3417 Hennepin av
Stebbins, E. S., Masonic Temple
Stone, Jacob, Jr., Security Bank bldg
Straus, C. B., Sec. Bank bldg
Turner, C. A. P., The Phoenix
Van Dyck, A. R., Lumber Exchange
Wass, A. J., 693 13th av, N E
Westphal, O. K., Northwestern bldg
*Whitney, Wm. Channing, Loan & Trust
Williams, A. W., Northwestern bldg bldg
Wilkinson, W. A., Security Bank bldg
Wyckoff, W. C., 517 1st av, S
NEW ULM—?Amme, Hermann
Berndt, Julius
Heers, C. A.
RED WING—Grover, C. L.
Longcor, Wm. J.
ROCHESTER—Jonson, J. G.
ST. CLOUD—Haas, S. H.
Hussey & Bergman, 707 7th av
ST. PAUL—Alban & Fisher, 407 Chamber of Commerce bldg
Bassford, E. P. & C. A., Gilfillan blk
Boyer, Taylor & Tewes, 400 Endicott blk
Buechner & Orth, Capital blk
Denson, Jas. F., Ger. Life bldg
Donohue, E. J., Gilfillan blk
Donohue, J. H., Gilfillan blk
Ellerbe & Round, 692 Endicott Arcade
Erickson, Henry E., 374 Jackson
Fischer, J. F., 753 Wabasha
Fischer, John F., 501 Park av
Fitzpatrick, M. J., 17 W 9th
Garlough, A. L., 25-26 Union blk
*Gauger, A. F., Scandinavian-Am. B'k bldg
*Gilbert, Cass, 524-526 Endicott bldg
Greene, H. W., 601 N. Y. Life bldg
Hartford & Jacobson, 520 Capital Bank bldg
Holyoke, T. G., Endicott bldg
*Johnston, Clarence H., Capital Bank bldg
Knight, A. F., 128 W 6th
Kretz, Hermann, N. Y. Life bldg
Laurent, Geo., 602 Court blk
Linhoff, Peter J,. Nat. G. A. Bank bldg
Lockwood, Louis, Nat'l Ger.-Amer. B'k bldg
MacLeod, Jas. Allen. Endicott bldg
Masqueray, E. L., 508 Globe bldg
Omeyer, Clara. 504 Selby av
Pear, C. A., 509 Pittsburg bldg
Postle, Mahler & Denson, 706 Germania Life bldg
Reed & Stem, 601 Endicott bldg
Ries, G. J., 67 Union blk
*Stevens, J. Walter, New York Life bldg
Taylor & Tewes, 400 Endicott bldg
Terrell, H. B., 507 Germania Life bldg
Thori, Alban & Fisher, Cham. of Com. bldg
Wheeler, Alfred H., Globe bldg
Wheeler, J. H., New York Life bldg
VIRGINIA—Okerstrom, J. E.
WINONA—Mabury, C. G.
Myhre, A. E.
Patterson, C. A.
Van Deusen & Stevens
ZUMBROTTA—Grover, C. L.

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## MISSISSIPPI.

BILOXI—Roof, H. H.
BOONEVILLE—Alexander & Patrick
COLUMBUS—McClanahan, D. S.
Terry, Henry C.
JACKSON—Austin, H. N.
Hull-Emmett, J.
*Hull, W. S.
Tinsley, W. P.
MERIDIAN—Card, C. M.
Krouse, P. J.
Stuart, Burt
Suttle, C. E.
NATCHEZ—†Kitteringham, G. W.
VICKSBURG—Donovan, Michael J.
Stanton, Wm. A.
WESSON—Woodin, A. T.
YAZOO CITY—†Davis, J. H. & Son

## MISSOURI.

BEVIER—Chitwood, W. M.
BOONVILLE—Ravenel, Samuel W.
CAMERON—Merwin, Hugh
CANTON—Sason, E. N.
CAPE GIRARDEAU—Page, Henry J.
CARTHAGE—Ehlers, A.
Fearey, Robt. H.
Prather, J. A.
COLUMBIA—Miller, F. P.
Duncan, A. T.
Pierce, Harry L.
DE SOTO—†Hemme, Charles
FULTON—Bell, M. F.
GRANBY—Mathews, Lee
HANNIBAL—Martin, Malcolm S.
Schmitt, Ernest
HIGGINSVILLE—Boyer, W. C. & Son
HOPKINS—Akin, John A.
INDEPENDENCE—Graver, Wm. L.
JEFFERSON CITY—Miller, F. B.
JOPLIN—Allen, Austin & Co.
Garstang & Rea
Michaelis, A. C.
KANSAS CITY—Anderson, A. B., N. Y. Life bldg
Ashley, A. J., 3409 Main
Bannon, James, 205 Temple blk
Boller, Carl, Gayety Theater bldg
Braecklein, J. G., New England bldg
Brooks, B. H., Beales bldg
Brown, W. E., New Ridge bldg
Carman, George, Reliance bldg
Carroll, Edward, 2716 Holmes
Clark-Williams Co., R. A. Long bldg
Clevenger, P. M., 1838 Penna. av
Conkey, G. L., 4423 Campbell
Cravens, Lanier, Finance bldg
Curtis, R. A., Water Works bldg
*Curtiss, Louis, 1118 McGee
Deakin, James A., 3317 Brooklyn av
Drake, H. A., Reliance bldg
Edwards & Sunderland, Sheidley bldg
Eisentraut Co., Scarritt bldg
Evans, Frank R., 4405 Forest av
Fall, Wm. B., 3500 Warwick boul
Faris, Edgar C., Shukert bldg
Felt, J. H. & Co., Shukert bldg
Frink, S. R., Ridge bldg
Frink, Sidney U., Ridge bldg
Goddard, Harry I., Finance bldg
Goddard, Otis, Reliance bldg
Green, Herbert P., 3508 E 26th
Gunn, F. C., Postal bldg
*Hamilton, F. B., Temple blk
Hare, Sidney J., 3224 Campbell
Harris, W. E., Portsmouth bldg
Hogg, J. O., N. Y. Life bldg
Howe & Hoit, 315 E 10th
Jackson & McIlvain, Dwight bldg
Jacobs, H. M., Ridge bldg
Keene & Simpson, Reliance bldg
Kelly & Hansen, Waterworks bldg
Kessler, Geo. E. & Co., Fidelity Trust bldg
Kratz, E. E., 223 E 31st
Kurfiss, S. H., Scarritt bldg
Lancieri, J. G., 403 Locust
La Pierre, Horace, 1006a McGee
Lauck & Lauck, Ridge bldg
Lee, J. R., 515 Main
Lovitt, Walter U., Finance bldg
Ludlow, T. H., 3011 E 7th
McKecknie, J. W., New York Life bldg
Madoris, Edgar P., Bryant bldg
*Markgraf, Rudolph, Keith-Perry bldg
Martling, J. H., 15 W 9th
Michaels, Fred'k H., Reliance bldg
Middaugh, L. G., K. C. Life bldg
Morley, Washington, R. A. Long bldg
O'Connell, Matt., New Ridge bldg
Owen & Payson, Starritt Arcade
Parker, F. E. & Son, Kemper bldg
Plym, Francis J., Kemper bldg
Pomerantz, Isidor, Braley bldg
Price, Edwin, 3426 Holmes
Ramp, L. F., New Ridge bldg
Rea, F. S., Finance bldg
*Root & Siemens, Scarritt bldg
Sayler & Seddon, Gumbel bldg
*Schmidt, C. P., New Shukert bldg
Schrage, W. F., 43 E 32d
Seddon, H. R., 3429 Harrison
Seested, Henry, 2820 Baltimore
*Shepard & Farrar, Long bldg
Short, I. M., 711 Euclid
Simons, H. J., Commerce bldg
Sloan, C. B., Sloan bldg
*Smith, Chas. A., Finance bldg
Stansberry, J. M., 1928 Lister av
Stroeh, H. J., Kemper bldg
Tarbet, S. B., Postal bldg
Thompson, J. Francis, Mass bldg
Thurtle-Thayer Co., Ridge bldg
*Turney, Albert, Sharp bldg
*Van Brunt, A. & Co., Reliance bldg
Vandenberg, C. C., Scarritt bldg
Weathers, P. H., Hall bldg
Wilder & Wright, First Nat. Bank bldg
Williams, J. C., New York Life bldg
Willis, Bixby, New York Life bldg
Wilson & Price, Sharp bldg
Woodward, Alexander, 3236 Holmes
Wright, Ward W., 4921 Walnut
MARIONVILLE—Benamin, A.
MARYVILLE—Eearcy, A. A.
MOBERLY—Houk, U. S. A.
Sinclair, G. A.
ROLLA—*Hohenschild, H. H.
ST. JOSEPH—Boschen, W., Tootle bldg
Delavan, E. C., 1124 Frederick
*Eckel & Aldrich, Corby-Forsee bldg
Lynch & Cornelius, Safe Deposit bldg
Meier, Rudolph, Ballinger bldg
Trunk & Helm, Donnell-Court bldg
ST. LOUIS—Baker & Knell, Olive, c 9th
Barnett, Haynes & Barnett, Century bldg
Beardsley, H. W. & Co., Commonwealth Tr.
Beattie, Wm. J., 810 Olive bldg
Becker, Gerhard J., 2904 Bailey av
Black, A. W. & Son, 2107 Clark av
Boehmer, Otto J., Holland bldg
*Bonsack, Frederick C., Pierce bldg
Boyers, John A., 2726 Dalton av
Bradley, Chas. C., 806-8 Chestnut
Bradshaw, Preston J., Liggett bldg
Brueggeman, G. F. A., 3d Nat'l Bank bldg
Burgdorf, Herman J., 2604 Virginia av
Caldwell, Wm. A., Security bldg
Callen, Lucien S., 6118 N Market
Cann, W. A., 705 Olive
Clymer & Drischler, 105 N 7th
Colvin, Homer V., 2647 Genevieve av
Cope & Stewardson, 319 N 4th
Deitering, Chas. H., Olive & 7th
Donovan, Jos. D., 8301 Lucille av
Duggan & Huff, 842 Century bldg
Duncan, A. D., 3120 St. Vincent av
Dunham, John M., Odd Fellows bldg
Dwyer, John R., 721 Olive
*Eames & Young, Wright bldg
Emig, Christian G., 3711 Utah pl
Ewald, Laurence, 4th & Locust
Foell, August, 3349 California av
Fridrich, Chas. L., 5120 Wells av
Garden, Edw. G., Chemical bldg
Groves, Albert B., 314 N. 4th
Gruen, Wm. H., 721 Olive
Guentert, E., 5717 Easton av
Haeussler, August F., 510 Pine
*Heimburger, G. U., Merchants-Laclede bldg
Helfensteller, Hirsch & Watson, 721 Olive
Hellmuth, Geo. W., 721 Olive
Herthel, John W., 324 Chestnut
Hess, Ernest J., 3416 Arsenal
Hesse, Jos. D., 122 N 7th
Hirshstein, J. M., Chemical bldg
Holloway, Chas. S., Chemical bldg
Holtmann, Wm. F., 3516 S Compton av
Hormann, Louis, 821 Chestnut
Hueppner, Fritz, Century bldg
Imbs, Thos. F., Granite bldg
Ittner, Wm. B., Board of Education bldg
Jacobs, Chas. N., Columbia bldg
Janisch, Wenzel J., 2206 Missouri av
Janssen, Ernest C., 721 Olive
Kennerly & Iredell, Benoist bldg
Kessler, Geo. E. & Co., 906 Olive
Klipstein & Rathmann, Chemical bldg
Klutho, Victor J., 915 Olive
Knittel, Wm., 3736 S Grand av
Lee, T. C., 915 Olive
Levy, Wm., Wright bldg
*Link, Theodore C. & Son, Carlton bldg
Lucas, Wm. A., 816 Olive
Lynch, Jas. Hal., Dolph bldg
McArdle, Montrose P., 721 Olive
McMahon, Wm. P., 617 Wainwright bldg
*Manny, Edmund A., 319 N 4th
Mariner & La Beaume, Chemical bldg
Matthews & Clarke, 705 Olive
*Mauran & Russell, 721 Olive
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Milligan & Wray, Chemical bldg
Mounts, W. P., 1412 Rowan av
Niemann, Emil H.
Nolte, Edw. F., 122 N 7th
Osterhorn, Robt., 6312 Bailey av
Paulus, John D., 408 Olive
Pendleton, Louis B., 705 Olive
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Powers, Herbert W., Holland bldg
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Wageley, Geo. L., 5971 Easton av
Wagner, Henry A., 407 N 8th
Walsh, Robt. W., Wainwright bldg
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Wedemeyer, Wm., 105 N 7th
*Wees, J. L., 214 N 6th
*Wessbecher & Hillebrand, Temple bldg
Widmann & Walsh, 105 N 7th
Wilcox, Chas., 2544 Bernays av
Wilhelmi, Otto J., Granite bldg
Wright, Henry, Chemical bldg
Wuest, Gustav P., 105 N 7th
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Miller, Opel & Torbet, Merchants Nat'l Bank bldg
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Fisher & Lawrie, Paxton bldg
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Misener & Stockham, Ramge blk
Nachtigall, J. M., Paxton bldg
Nipell & Bellas, Paxton bldg
Petersen, Fred, Brandeis Theatre bldg
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Stout, Howard A.
Vaughn, S. Hudson
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Ciccarelli, Eugene, 2d Nat'l Bank bldg
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Murchison, K. M., 47 Newark
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Hankin, Walter, 581 Summit av
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Ziegler, Christian H., 75 Montgomery
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Fisher, H. Messinger, 764 Bloomfield av
Fitch, Douglass
Lockwood, Jesse H., 117 Gates av
Mancini, Louis A., 144 Watchung av
Myers, Christopher, 460 Bloomfield av
Norris, A. F., 118 Union
North, Effingham R., 7 Belleaire
Reed, Fred N., 2 Burnside
Sigler, Ira, 74 Valley rd
Simpson, Alfred W., Montclair Heights
Van Antwerp, Dudley S., 483 Bloomfield av
Vickers, Arthur, 26 Waterbury rd
Weekes, Raymond D., 460 Bloomfield av
Yost, Henry L., 467 Bloomfield av
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MORRISTOWN—Griffiths, Harry
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Pierson, Walter B.
Vandoren, Wm. C.
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Arenander, Carl E., 587 Summer av
Aschenbach, Walter J., 349 Plane
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Bartlett, W. Orrin, 738 Broad
Bergh & Trautsschold, 845 Broad
Bigelow, Frederic, 786 Broad
Bottelli, Romolo, 191 Market
Brady, Harold B., 27 Academy
Calabrese, Raphael, 40 Clinton
Capen, John F., 45 Clinton
Charles, Peter, Union bldg
Cohen & Bessman, 89 Mercer
Conklin, H. King, 665 Broad
Connelly, Arthur, 92 Market
Cook, J. Fred, 221 S 10th
Dunn, Edward E., 786 Broad
Elliott, John, 332 Sanford av
Ely, J. H. & W. C., Fireman bldg
Erler, Richard W., 45 Clinton
Faulkner & Fougner, 800 Broad
Gonnelli, Orestes C., 800 Broad
Grad, Frank, 137 Springfield av
Grant, Edw. E., 397 Washington av
Guilbert & Betelle, 917 Broad
Hall & Green, 16 Franklin
Hooper & Co., 118 Market
Hopper, Daniel A., 15 Clinton
Hughes & Backoff, 22 Clinton
Hunt, Jarvis, 142 Market
Hurd & Sutton, 11 Clinton
Jones, W. Davenport, 31 Clinton
Kimball, H. S., 843 Broad
King, H. J. & J. V., 22 Clinton
Kitchell & Bartlett, 142 Market
Kleeman, August M., 741 Broad
Klemm, Robert C., 156 Market
Knopf, Chas., 459 18th
Kreitler, Herman, 45 Clinton
Lehman, Wm. E., 738 Broad
MacLagen, Peter T., 45 Clinton
McMurray & Pulis, 22 Clinton
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Myers, Nathan, Court House bldg
Nobbe, Fred S., 189 Market
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Peter, Alfred, 238 Washington

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Schoenig, Wm. K. & Son, 418 Springfield av
Sellick, Robert, 222 Market
Sonnenberg, Jos., 222 Washington
Staehlin, Gustavus, 238 Wash'n
Steinbrenner, Chas. L., Essex bldg
Strombach, Julius, 238 Washington
Teets, Geo. E., 185 Market
Thomson, A. H., 222 Market
Valentine, Chas. M., Summer av
Walters, Alfred, 45 Clinton
Warren, Edward V., 22 Clinton
Warren, John B., 22 Clinton
Weller, Henry J., 167 Hamburg pl
Welitoff, N., 222 Washington
Wurth, Ed. A., 11 Clinton

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Boylan, Wm. H.
Merchant, Boylan, Wm. H., 384 George
Parsell, Geo. K., 363 George
Williamson, D. D., 384 George

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Colt, Samuel S.
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Hasselman, F. R.
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Fritz, Herman, 237 Main
Heuser, Chas. J., 80 Paulison
Hettema, Harry A., 127 Summer
Horton, Chas. A., 215 Main av
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Meeker, Wm. M., 9 Bloomfield av
Prieskel, Abram, Hobart Trust bldg
Seebass, Alex., 180 Monroe
Strong, Lambert, Main & Harrison
Struyk, Jno. S., Post Office bldg
Tennis, Peter J., 466 Highland av
Twist, Ernest E., 229 Main
Van Winkle, Cortlandt J., 257 Main av
Warnaar, Henry, 75 Bogart av (Garfield)
Waterhouse, Chas. B., 257 Main av
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Wynne, Henry P., 208 Bloomfield av

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O'Neill, Wm. H., 153 Slater
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Schwarz, Fred'k J., 112 Ellison
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Zabriskie, Walter C.

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ROSELLE PARK—Polhemus, Peres B.

RUTHERFORD—Logan, Wm. S.

SEABRIGHT—Jahnes, Nath'l

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Wilmington, Harvey V., 40 3d

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Fuller & Robinson Co., 95 State
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Obenaus, Wm. J., Bensen bldg
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Reynolds, Marcus T., 100 State
Schade, Wm. C., De Graf bldg
Selkirk. Alex., 31 N Pearl
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Whiting, Frank P., 86 State
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Hillger, Samuel E., Seward blk
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Van Weelden, H.
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Gardner, H. S., Ackerman bldg
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Bickell, W. S., 595 Ellicott sq
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Cary, George, 184 Delaware av
Caudell, Wm. M., 397 W Utica
Chappelle, Frank H., 750 Elmwood av
Chase, Jas. W., 388 Lafayette
Colson-Hudson, 35 Dun bldg
*Coxhead, John H., Ellicott sq
Dell, Emerson C., D. S. Morgan bldg
Eckel, L. P. J., 191 York
*Esenwein & Johnson, 775-793 Ellicott av
Fayfield, Robt. C., Ellicott sq
Gangnagel, Jacob A., 149 Kingsley
*Green & Wicks, 110 Franklin
*Harris, Thos. W., Erie Co. Bank bldg
Haussauer, Jacob S., 21 Ada pl
Henrich, Edw. G., Mutual Life bldg
Hodge, Chas. L., 466 Franklin
*Holland, H. O., Mutual Life bldg
*Kent, Edw. A., 1088 Ellicott sq
*Lansing, Bley & Lyman, Prudential bldg
*Little, Hy. H., 56 Norwood av
McCreary, Wood & Bradney, Mut. Life bldg
Mathewson, Fred S., 52 Niagara
*Metzger, Edward, 1677 Amherst
Metzger, Geo. J., 19 W Huron
Miller, M. C., Mutual Life bldg
Minks, Richard, 290 Hoyt
Moeller, Edw. H., 373 Pearl
North, Robt., Prudential bldg
Oberkircher, Jacob, 46 Orange
*Orr, Ulysses G., 32 Builders' Exchange
Paul, Emil C., 808 Main
*Porter, Cyrus K. & Sons, 73 W Eagle
Post, A. A., Brisbane bldg
Reidpath, Robert J., Builders' Exchange
*Schmill & Gould, Prudential Exchange
Schurman, Frank M., 18 Maple
*Waite, W. T., Ger. Ins. bldg
Walker, Jas., Builders' Exchange
*Wallace, Robert A., Builders' Exchange
Wannenwetsch, C. H. A., 563 William
Wolfe, Geo. Morton, Ellicott sq
Zawadski, W. H., 798 Fillmore
CARTHAGE—Patterson, A. W.
CATSKILL—Beardsley, C.
Warner, Geo. H.
CENTRAL SQUARE—Smith, Thos.
CHATHAM—Coon, Louis
Hunt, Alfred
COHOES—Goddard, Wm. M.
COOPERSTOWN—Edgerton, C. C.
CORNING—Tuthill, H. G. & Son
CORNWALL LANDING—Taylor, H. R.
CORTLAND—Howes, M. F. & Son
DEPEW—Glade, John C
EAST HAMPTON—Lawrence, J. Custis
EAST SETAUKET—Lyons, T. H.
ELMIRA—Considine, J. H., Robinson bldg
Dockstader, Otis, 103 W Church
*Pierce & Bickford, 118 Lake
EVERGREEN—(See New York City, Borough of Queens)
FAR ROCKAWAY—(See New York City, Borough of Queens)
FLUSHING—(See New York City, Borough of Queens)
FREDONIA—Curtis, E. A.
Morrison, J. W.
FREEPORT—Seaman, A. L.
FULTON—Cross, W. D.
GENEVA—Adams, Lloyd P.
GLENS FALLS—Lawrence, W. E.
†Potter, E. B.
Scales, W. J.
GOUVENEUR—†Johnson, Jas. H.
†Stacy, Geo.
HASTINGS UPON HUDSON—Hastings, F. L.
HERKIMER—Cronk, Chas. E.
HUDSON—Montross, J. Walter
Moul, H. S.
O'Connor, M.


**Hendricks' Commercial Register**

**is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.**

*When writing to firms whose names appear in this book please mention*

**Hendricks' Commercial Register**


ITHACA—Gibb & Waltz, Trust Co. bldg
Miller, Wm. H., 139 E State
Vivian, Clinton L., 120 E State
Wilgus, Jno. M., State & Cayuga
JAMESTOWN—Freeburg & Fidler
Hall, A. & Son
Mason, Joseph
JAMAICA—(See New York City, Borough of Queens)
KINGSTON—Rice, Thos. P.
Teller, Myron S., 280 Wall
LITTLE FALLS—West, C. D.
LOCKPORT—Sylvester, J. W., 16 Pound
LONG ISLAND CITY—(See New York City, Borough of Queens)
LOWVILLE—†Rich, W. H. Son & Co.
MALONE—Conant, Henry N.
MAMARONECK—Leddy, Andrew F.
Simpson, A. Duncan
Will, Edwin R.
MARATHON—†Holmes, John
MASPETH—(See New York City, Borough of Queens)
MATTEAWAN—Van Slyck, C. B.
MECHANICSVILLE—La Dow, J. S.
MIDDLETOWN—Canfield, D. H.
Lindsey, F. J.
Staib, Kester W.
MOUNT VERNON—Guttenberg, S. A., 37 Prospect av
Jenks, A. Murray, 42 S 4th av
MacKenzie, Colin, 136 Union av
Perry, James H., 3 S 3d av
Stickles, Walter F., 37 Prospect av
NAPANOCH—Norden, Andrew B.
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Estabrook, Frank E.
Hilton, Wm. H.
Moshier, George
Templeton, Jas. F. & Son
NEW ROCHELLE—Burchell, Nathaniel J., 51 Maple av
Kleist, Jno. E., 180 Main
Lupprain, Chas. A., 180 Main
Sundberg, August, 244 Huguenot
Winter, Frederick E., 244 Main

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Allmendinger, Louis, 926 B'way
Bennett, Thos., 5123 3d av
*Berger, Louis & Co., Myrtle av
Berlenbach, Francis J., Jr., 260 Graham av
Brooks & Rosenberg, 186 Remsen
Bryson, Robt. H., 153 Montague
Cannella, Chas. P., 60 Graham av
Cohn Bros., 363 Stone av
Curtiss, Sam'l, 177 Montague
*Danancher, Louis, 7 Glenmore av
Dangler, Harold G., 215 Montague
Debus, Wm., 914 B'way
Dennis, Ernest, 241 Schenck av
Dessau, Fred'k J., 1373 B'way
Driesler, Benj., 178 Remsen
Eisenla & Carlson, 5101 3rd av
Engelhardt, Theobald, 905 B'way
Erda, Gustave, 861 Manhattan av
Ericson, Emil J., 16 Court
Finkensieper, Benj., 134 B'way
Fischer, Adam E., 862 Bushwick av
Foley, Michael M., 2247 Homecrest av
Freeman, Jno. J., 69 Douglass
Glover, J. G., 166 State
Glucroft & Glucroft, 34 Graham av
Hebberd, Chas. E., 1040 79th
Hedman & Schoen, 367 Fulton
Helmle, Frank J., 190 Montague
Herter, Frank W., 186 Remsen
Hendrickson, Edmund H., 117 Ainslie
Hirsch, Max, 26 Court
Holder, Henry, Jr., 242 Franklin av
Holmgren, Eric O., 129 Marion
Hopkins, McEntee & Speers, 217 Havemeyer
Houghton, Thos. F., 213 Montague
Hudson, Benj. F., 319 9th
Hudson, Benj. J. E., 72 Coney Island av
Infanger, Chas, 2632 Atlantic av
Jezek, Julius A., 1703 B'way
Kennedy, J. Sarfield, 44 Court
Koch, Arthur R., 26 Court
Koch, Henry H., 48 B'way
Koch & Wagner, 26 Court
Kreinbrink, Chas. J., 26 Court
McDonald, Jas. A., Surf av & W 24th
MacManus, A. J. & J. T., 215 Montague
Madigan, G. Harry, 243 Withers
Miller, Geo. M., 24 Elm pl
Millman, S. & Son, 189 Montague
Millspaugh, G. Edw., King's Highway, n Coney Island av
Morris, Geo. A., Jr., 9219 Ave G
Mullin, C. Whitley, 189 Montague
Murphy, Sylvester P., Bay 34th
Nast, Arthur E., 14th av & 63d

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Nicola, Andrew, 158 Court
O'Rourke, Jas. F., 264 39th
Parfitt, Albert E., 26 Court
Parfitt Bros., 26 Court
Partridge, Wm., 188 Montague
Pierce, A. White, 59 Court
Pollard, F. Ellery, 158 Lawrence
Rissler, Andrew, 955 B'way
†Rupp Bros., 186 Remsen
Ryan, Wm. J., 164 Ryerson
Samenfeld, Lee, 367 Fulton
Sands & Wheeler, 59a Reeve pl
Schaefer, Robt. T., 1524 Flatbush av
Schillinger, Louis, 167 Van Sicklen av
Schmidt, Siegfriend H., 1822 Myrtle av
Scudder, Wilbur S., 367 Fulton
Skrzyneki, Gustav A., 350 Fulton
*Slee & Bryson, 153 Montague
Smith, Howard P. B., 1369 52d
Spicer, H. L., 367 Fulton
Stanley, Frank, 367 Fulton
Thinnes, Jacob, Jr., 245 DeKalb av
Tillion, Philemon, 955 B'way
Ullrich, Albert, 373 Fulton
Van Buskirk, Clarence R., 180 Montague
Vollweiler, Hy., 696 Bushwick av
Voss & Loritzen, 65 DeKalb av
Wagner, Chas. C., 26 Court
Wandell, Jno. C., 5th av & 39th
Werner, Chas., 26 Court
Whipple, Henry D., W 12th, n R. R. av
Wills, Walter B., 32 Ditmars
Wunder, Frederick, 589 Kent av
Wunder, Fred'k & Son, 957 B'way

## Boroughs of Manhattan & Bronx.

NEW YORK—Abramson, Louis A., 788 E 165th
Ach, David M., 1 Madison av
*Adams, Wm., 15 W 38th
Ajello, Gaetan, 1 W 34th
Albertson, W. Nicholas, 95 William
Albrecht, Frederick E., 345 E Fordham rd
Albro & Lindeberg, 481 5th av
Allen, Augustus N., 2 W 45th
Allen, Jerome R., 345 5th av
Allen, Paul R., 1133 B'way
*Almirall, Raymond F., 185 Madison av
Almiroty, Randolph, 3 W 29th
American Associate Architects (Inc.), 31 E 27th
Anable, Richard D., 3 E 28th
Andersen, Henry, 5 W 42d
Anderson, R. Napier, 63 5th av
Andrews, Frank M. & Co., 1 Madison av
*Architectural League of New York, 215 W 57th
Arctander, Arthur Co., 391 E 149th
Arend, Ernest A., 105 W 40th
*Atterbury, Grosvenor, 20 W 43d
Audsley, B., 18 W 27th
Audsley, W. & G., 18 W 27th
Austin, Wm. E., 46 W 24th
Avolin, Hugo H., 961 Stebbins av
Ayres, Louis D., 50 E 41st
*Babb, Cook & Welch, 3 W 29th
Bacon, Henry, 160 5th av
Baer, Herbert M., 21 W 45th
Baker, Hewlett S., 258 E. 138th
*Baker, Jas. B., 156 5th av
Balch & Beardsley, 38 W 32d
Ballantyne, Henry F., 244 5th av
Bannister & Schell, 69 Wall
Barber, Donn, 25 E 26th
Barber, Joel D., 475 5th av
*Barlow, Alfred E., 3 W 29th
*Barney, J. Stewart, 40 W 38th
Barrows, Allan M., 45 W 34th
Bartletts, Geo. M., 103 Park av
Barton, Geo. E., 225 5th av
Bates, Wm. A., 25 W 42nd
Baxter, Chas. H. & Co., 380 E 149th
Baylies, Franklin, 33 Bible House
Beatty & Stone, 55 B'way
Beauley, Wm. J., 369 West End av
Beder, Harold W., 334 5th av
Beekman, Wm. F., 27 E 22d
Bell, Algernon S., 320 5th av
Benedict, Eli, 1947 B'way
Benedict, Frederick S., 50 E 41st
Benedict, Wm. K., 1133 B'way
*Benson, J. P., 331 Madison av
Bent, Francis H., 110 E 23d
*Berg, Chas. I., 331 Madison av
Berger, Bruno W. & Son, 121 Bible House
Berger, Richard, 309 B'way
Bergmann, Geo. F., 16 Beaver
Bernstein & Bernstein, 24 E 23d
Bessell, Wesley S., 1170 B'way
Bieler, Alphonso H., 200 5th av
Birge, Charles E., 29 W 34th
Birkmire, Wm. H., 396 B'way
Bissell, Frank H., 103 Park av
Blagden, Wendell P., 432 5th av
Blair, Walter D., 281 5th av
Blake, Theo. E., 225 5th av
Blondel, Theo., Jr., 103 Park av
Bloodgood, Wm. E., 1 Madison av
Bloser, Albert P., 500 5th av
Bluemner, Oscar, 18 E 34th
Blum, Geo. & Edw., 505 5th av
Blumberg, Alex. W., Custom House
Blumenstein, Paul, 28 E 23d
Bodker, A. J., 25 W 32nd
Boehm, Geo. A., 7 W 42d
Boekell, Julius, 147 E. 125th
Boese, John, 280 B'way
*Bonagur, Vincent, 789 Home
*Boring & Tilton, 32 B'way
Bossom, Alfred C., 366 5th av
Bosworth, Wm. W., 527 5th av
Bosworth & Holden, 1170 B'way
Boyd, Jno. D., 1123 B'way
Boyd, Wm. S., 561 Hudson
Boyland, Jno. P., 103 E 125th
Boynton, Louis, 25 W 32d
†Brandt, L. & J., 271 W 125th
Brazer & Robb, 1133 B'way
Brendon, Chas. & Co., 500 5th av
Brewster, Herbert R., 116 Nassau
Brick, Samuel R., Jr., 1 B'way
Brite, James, 1170 B'way
Brociner, Alex., 20 E 42nd
Brogan, Patrick F., 119 E 23d
Brower, John, 1133 B'way
*Brown, Edwd. J., 889 E. 175th
Brown, McAghon & Strassie, 31 E 27th
Brown & Almiroty, 3 W 29th
Brubaker, Samuel H. Co., 50 Church
Brun, Clement B., 1 Madison av
*Brunner, Arnold W., 320 5th av
Bruyere, Louis W., 11 W 36th
Buchman & Fox, 11 E 59th
Buckham, Chas. W., 307 5th av
Budd, Katharine C., 500 5th av
Buek, Chas., 5 E 42d
Bunce, J. Oscar, 1 W. 34th
Burnett, Edw., 11 E 24th
Busselle, Alfred, 1133 B'way
Butler, Lawrence S., 103 Park av
Butler & Rodman, 16 E 23d
Butterfield, Wm. H., 437 5th av
Buys, Arthur F., 311 Madison av
Byers, Robt. M., 59 Pearl
Byrne, Edward J., 3025 3d av
Cable, Wm. Arthur, 1133 B'way
*Cady & Gregory, 6 W. 22d
Caldwell, Chas. H., 160 5th av
Call, Alfred W., 949 B'way
Campbell, Jas. I., 976 Woodycrest av
Campbell, Shiras, 103 Park av
Campbell, Wilfred A., 45 W 34th
Candler, Duncan, 23 E 26th
Cantor, Maxwell A., 29 W 42d
Carfield, H. J., 31 B'way
*Carpenter, James E. R., 475 5th av
*Carrere & Hastings, 225 5th av
*Casey, Edw. P., 149 B'way
*Cashman, John R., 1 B'way
Caswell, Kenneth L., 47 W 34th
Cavinato, C., 560 W B'way
*Chambers, Walter B., 109 Broad
Chapman, Henry Otis, 334 5th av
Chapman, Howard, 1123 B'way
Chapman, Josephine W., 4 W 40th
Chappell, Geo. S., 345 5th av
Chappell & Bosworth, 258 B'way
Chard, Thornton, 39 W 38th
Chard, Walter G., 39 W. 38th
Chestersmith, Edw. W., 150 Nassau
Child, Edw. S., 29 Bway
Chipman, Charles C., 220 B'way
*Clark, Chas. S., 445 E. Tremont av
Clausizer, John Jr., 157 E 21st
Cleverdon & Putzel, 41 Union sq, W
*Clinton & Russell, 32 Nassau
Cobb, Henry Ives, 42 B'way
Cocker, J. C., 2017 5th av
Codman, Ogden, 340 Madison av
Cole, Jas. W., 403 W 51st
*Colley, Chas. E., 154 Nassau
Colt, Stockton B., 39 W. 38th
Comfort, Ralph M., 160 5th av
Comstock, Corry B., 23 E 20th
Comyns & Todaro, 147 4th av
*Congdon, Henry M. & Son, 18 B'way
Conover, Warren H., 232 W. 40th
Conrad, Henry, 840 Olmstead av
*Constable, Howard, 115 E 23d
Corbett, Harvey Wiley, 122 E. 25th
Cornell, Frank T., 125 E 23d
Costigan, Robt. H., 225 5th av
Cottrell, W. Llance, 200 5th av
*Covell, Wm. S., 1170 B'way
Cox, Jno., Jr., 156 5th av
Cram, Goodhue & Ferguson, 170 5th av
Cramer, Lester A., 103 Park av
Crane, Theodore, 15 W 38th
*Cromwell, J. William, Jr., 104 W 42nd
Crosby, Roy C., 170 5th av
Crosier, Geo. P., E 223d nr White Plains rd
Cross & Cross, 527 5th av
Crow, Lewis & Wickenhoefer, 200 5th av
Cubberley, Leon, 1 Madison av
Cullen, Chas. H., 25 E 26th
Cummings, James O., 12 W 31st
Dana, Richard Henry, Jr., 331 Madison av
Darrach, Jas. M. A., 10 E 33d
Daus & Otto, 130 Fulton
Davidson, Henry, 400 W 25th
Davis, Albert E., 258 E. 138th
Davis, Edw. H., 39 E 28th
Davis, McGrath & Kiessling, 949 B'way
Deacy, Wm. H., 437 5th av
*Deane, E. Eldon, 6 W 28th
*De Gerdsdorff, Geo. B., 103 Park av
*De Hart, John, 1039 Fox
Dehld, Arne & Co., 108 Fulton
Delano & Aldrich, 4 E 39th
DeMeuson, Francis A., 31 E 27th
Denby & Nute, 333 4th av
Dennis, Stanley A., 154 Nassau
Dennison & Hirons, 475 5th av
De Sibour, Jules H., 527 5th av
Desrats, Geo. P., 113 E 19th
Detwiller, Chas. H., 97 Nassau
Devermann, Chas. E., 2047 Chatterton av
Dewsnap, Wm., 150 Nassau
Dietrich, E. G. W., 118 E 28th
Dillon, McLellan & Beadel, 1123 B'way
Dilthey, Wm. J., 1 Union sq W
Ditmars, Isaac E., 111 5th av
Dodge, R. Irving, 381 4th av
Dodge & Morrison, 82 Wall
D'Oench & Yost, 105 W 40th
Dominick, Wm. F., 3 W 29th
Donnell, Harry E., 225 5th av
Donovan, Jno. J., 437 5th av
Dress, Geo., 1436 Lexington av
*Du Fais, John L., 333 4th av
Duff, Thos. J., 407 W 14th
Duncan, Arthur M., 29 Bway
*Duncan, John H., 208 5th av
Dunn, Thos. F., 959 Woodycrest av
Eames, J. Henry, 500 5th av
Ebbinghaus & Irving, 634 E Gun Hill rd
Ebeling, Bernhard, 1136 Walker av
Ebeling, Fred, 506 E 84th
Eisendrath, S. B., 500 5th av
Ellis, Edmund L., 1133 B'way
Ells, Irving B., 261 B'way
Embury, Aymar 2d, 1133 B'way
*Emerson, Wm., 281 5th av
*Emery, M. L. & Hy. G., Bible House
Evers, Ivar Elis, 542 5th av
Ewing & Chappell, 345 5th av
Eyre, Wilson, 41 E 30th
Farnsworth, Jas. M., 501 5th av
Fearon, Francis G., 32 B'way
Feiser, Henry J., 150 Nassau
Felch, Walter L., 25 W 42d
Fenner, Burt L., 304 W 82nd
Fentress, Smith & Lenalie, 939 8th av
Ferry, J. J., 1 Madison av
*Ficken, H. Edwards, 10 W 22d
Field, Robt. B., 12 E 42nd
Fischer, Adam E., 23 Park row
Fischer, Fred'k W., 32 Union sq, E.
Fitch, Douglass, 1 W 34th
Fitz-Mahony, Michael J., 365 5th av
Flagg, Ernest, 109 Broad
Fletcher, Arthur G. C., 103 Park av
Ford, Butler & Oliver, 103 Park av
Forman & Light, 40 Cedar
Fornachon, Maurice, 225 5th av
Foster, Gade & Graham, 15 W 38th
Francis, Wm. C., 95 William
Franke, Julius, 25 E 26th
Franklin Engineering Co., 346 B'way
Franklin, John B., 122 Bowery
Franklin, L. Murray, Jr., 50 E 41st
*Freedlander, Jos. H., 244 5th av
Freeman, Alfred, 320 5th av
Freeman, Frank, 132 Nassau
Freeman & Hasselman, 39 W 38th
Friend, Jno. H., 148 Alexander av
Frohne, Wm. C., 33 E 27th
Fuehrmann, Henry T. J., 1123 B'way
Fuerst, Jean E. K., 381 4th av
FULLERTON, CLARENCE A. (Specialties in Fireproof Interiors, Banks, Offices, Public Buildings, etc.), 386 5th av
*Gage, S. Edson, 340 Madison av
Gallauner, Edmund, 132 Nassau
Gallow, Francis A., 1812 White Plains rd
Gardner, Robt. W., 122 W 29th
Garlichs, Chas. F., 1170 Bway
Garvin, Michael J., 3307 3d av
*Gavigan, Jas. J. F., 1123 B'way
Geer, Wm. Lincoln, 109 E 14th
Gens, Chas., Jr., 165 E 88th

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George, Thos. J., 32 Liberty
Georgi, Edwin C., 603 E 83d
Gette, Otto, 97 Nassau
*Gibson, Robt. W., 103 Park av
Gielow & Orr, 52 B'way
*Gilbert, Bradford L., 1 B'way
*Gilbert, Cass, 11 E 24th
*Gilbert, Chas. P. H., 1123 B'way
*Gildersleeve, Raleigh C., 3 W 29th
Giller, Louis, 416 B'way
Gillespie, G. C., 132 Nassau
Gillespie & Carrel, 1123 B'way
Gillette, Leon N., 128 E 37th
Ginsberg & Resnyk, 830 Westchester av
Gladman, Cyril R. A., 143 W 71st
Glasser & Co., 70 Manhattan
Gleim, Geo., Jr., 149 B'way
Goldberg, Herman, 2968 Briggs av
Goldner & Goldberg, 704 Jackson av
*Goldstone, L. A., 12 W 32nd
Gollner, Ervin G., 257 B'way
Gompert, Wm. H., 2102 B'way
*Gooch, Wm. Tyson, 91 Wall
Goodwillie, Frank, 346 4th av
Gordon, J. Riely, 507 5th av
Gou[illegible]b, Albert S., 156 5th av
Gould, Alfred, 10 E 42d
Graham, Robert Dun, 15 W 28th
Grand Central Station Architects, 314 Madison av
Grant, Chas. C., 156 5th av
Grauert, Emile W., 10 W 22d
Gray, Albert M., 1402 B'way
Green, Jas. C., 103 Park av
Greene, Edw. L., 527 5th av
Gr[illegible]m, Ernest, 5 Beekman
*Greenley, Howard, 298 5th av
Griebel, Geo. H., 2255 B'way
Grieshaber, Carl F., 4 E 39th
Griffin, Percy, 30 Church
Grimes, Marshall R. 39 E 42d
Gronenberg & Leuchtag, 3 W 22nd
Gross, Arthur, 347 5th av
Gross & Kleinberger, 75 Bible House
Guilbert & Betelle, 25 W 32nd
Gurd, Jno. A., 281 5th av
Gussow, Paul W., 23 Duane
Haig, Quintin F., 542 5th av
*Haight, Chas. C. & Githens, 452 5th av
Hale & Rogers, 11 E 24th
Hall, Harold N., 25 E 26th
Halley & Vulz, 103 Park av, & 401 Tremont av
*Hamilton, John A., 32 B'way
Hammond, Fred'k, Melrose av & 149th
Hanemann & Cherry, 103 Park av
Harde & Short, 3 W 29th
*Hardenbergh, Henry J., 47 W 34th
Harder, Julius, 31 W 31st
Hardway, Geo. J., 347 5th av
Hardy, Geo. F., 309 B'way
*Harney & Purdy, 320 5th av
Harrison, Joseph Duke, 283 4th av
Harrison & Sackheim, 230 Grand
Hart, Donald P., 3 W 29th
Hasenstein, Henry A., 192 Bowery
Hauser, John, 358 W 125th
Hausle, Frank, 81 E 125th
Hausle, Max, 2223 Powell av
Hays & Hoadley, 2010 B'way
Hazlett, Wm. C., 1133 B'way
Hedman & Schoen, 25 W 42d
Heidelberg, Max G., 322 5th av
*Hemstreet, Wm. F., 156 5th av
Hering, Oswald C., 1 W 34th
Herter Bros., 5 Beekman
Herts, Henry B., 113 E 19th
Hewitt, Edw. Shepard, 527 5th av
Hewlett, Wm. A., 156 5th av
Higginson, Wm., 13 Park row
Hill, Fred'k E., 346 B'way
Hill & Stout, 1123 B'way
Hinchman, Jno. R., 437 5th av
Hiss & Weekes, 1123 B'way
Hoadley, Chas. W., 2010 B'way
Hoddick, August O., 126 Liberty
Hoffman, F. Burrall, Jr., 527 5th av
Holden, Lansing C., 103 Park av
Holler, Jno. H., Jr., 82 Wall
Holly, Henry H., 39 W 27th
Holmes, Chas. A., 25 W 42d
Holt & Weidinger, 3 E 28th
Holton, Alfred J. S. (of Clinton & Russell), 32 Nassau
Hooper, Parker Morse, 527 5th av
Hopkins, Alfred, 11 E 24th
Hoppin & Koen, 244 5th av
[illegible]burger, Hermann, 422 E 159th
Horenburger & Bardes, 122 Bowery
Horgan, Arthur J., 37 Liberty
Horn, Chas. E., 1440 B'way
Hornum, Louis A., 145 E 42d
Hornum, W. H. C., 360 W 125th
Horwitz, Bernhard, 500 5th av
Hottenroth, H. A., 347 5th av
How, Kenneth G., 25 W 42nd
Howard, H. W., Jr., 39 E 42d
Howe, Augustus, 120 Liberty
Howell, Harry T., 149th & Willis av
Howells & Stokes, 100 William
Howes & Morse, 340 Madison av
Huenerberg, William, 764 Tinton av
Hunt, Jarvis, 527 5th av
*Hunt & Hunt, 28 E 21st
Hunt & Wiseman, 106 W 42d
Hunter, Paul C., 191 9th av
Huntington, C. P., 18 W 31st
Huntington, Robt. P., 244 5th av
Huntley, C. E. & Co., 103 Park av
Hurd & Sutton, 1133 B'way
Huss, Geo. Martin, 65 Morningside av
Hutchinson, Robert C., 126 Liberty
Hutton, L. Percival, 37 Liberty
Hutton & Buys, 311 Madison av
*Ingle, John W., 527 5th av
Israels & Harder, 31 W 31st
Itzel, Carl J., 1338 Wilkins av
Jackson, Arthur C., 23 E 26th
Jackson, Jos. A., 1123 B'way
Jackson & Brown, 500 5th av
Jackson & Rosencrans, 1328 B'way
Jacobs & Heidelberg, 320 5th av
Jacobsen, Fred'k, 132 E 23d
Jaeger, Fred'k, Webster & Tremont avs
Jallade, Louis E., 37 Liberty
Janes & Leo, 124 W 45th
Jardine, Kent & Hill, 3 W 29th
*Jennings, Arthur B., 41 Park row
Johnson, Carl P., 8 E 42d
Jones, Chas. G., 280 B'way
Jones, Richard C., 280 B'way
Joralemon, E. E., 120 W 42d
Josselyn, Edgar A., 3 W 29th
Jossier, Paul J., 127 E 23d
Judell, W. W., 37 E 28th
*Kafka & Lindenmyer, 37 E 28th
Kaiser, Fred'k, 2535 Frisbie av
*Kastner, Julius & Dell, 1133 B'way
Kaufman, Kilian & White, 110 E 23d
Kaufman, Lewis R., 373 4th av
Keeler, Fred'k S., 27 W 33d


# Hendricks' Commercial Register

OF THE

UNITED STATES

Price, Ten Dollars | Express Charges Prepaid | ESTABLISHED 1891

It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of Trade that comes within the Scope of the Work.

Price, Ten Dollars | Express Charges Prepaid | ESTABLISHED 1891

## For Buyers and Sellers

PUBLISHED ANNUALLY BY

S. E. Hendricks Co., 74 Lafayette Street, New York City


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Kehoe, Alfred L. & Co., 1 Beekman
Keister, Geo., 12 W 31st
Kelley, Frederic P., 3 W 29th
Kellogg, Fay, 32 Union Sq, E
Kelly, Timothy J., 685 Morris Park av
Kemble, Wm. F., 103 Park av
Kendall, Wm. Mitchell, 160 5th av
Kerby, John E., 18 E 42d
Kiessling, Calvin, Fuller bldg
*Kight, A. B., 660 W 180th
Kilian, Wm. G., 110 E 23d
*Kimball, Francis H., 71 B'way
King, Edward, 311 Madison av
King & Walker, 103 Park av
Kintzing, Lester, 7 W 42nd
Kirby, Edgar L., 169 W Tremont av
Kirby, Jos M., 2121 5th av
Kirby & Petit, 103 Park av
Kissam, Henry Snyder, 37 Liberty
Kleinberger, Jos., 721 Beck
Knapp, Horace Greeley, 123 Liberty
*Knoche, Gottfried, 516 E 72d
Knowles, Harry P., 1170 B'way
Knowles, Wilbur S., 1128 B'way
Knowles, Wm. W., 1133 B'way
Knubel, John H., 318 W 42d
Koch, Wm. T., 1 Madison av
Koehler, V. Hugo, 489 5th av
Koelble, Henry A., 71 Nassau
Kohn, Robert D., 170 5th av
Koppe & Daube, 830 Westchester av
Korn, Louis, 353 5th av
Krais, Wm., 452 5th av
*Kramer, Geo. W., 1 Madison av
Krapp, Herbert J., 113 E 19th
Krauss, Otto C., Newbold & Unionport
Kreymborg Arch'l Co., 1330 Wilkins av
Kuhne, Paul (Specialty Fireproofing), 147 4th
Kurtzer, William, 192 Bowery av
La Farge & Morris, 23 E 26th
Lamb, Chas. Rollinson, 25 6th av
Lamb, Thos. W., 501 5th av
Lambert, Wm. A., 99 Nassau
Landsiedel, Frank L., 1468 St. Lawrence av
Lang, Eugene J., 481 5th av
Langer, Nathan, 81 E 125th
Lauritzen, Wm. C., 2010 B'way
Labelle, Paul B., 56 Liberty
Lawlor, Jno. J., 360 W 23d
Lawlor & Haase, 69 Wall
Lawrence, Warrington G., 225 5th av
Lawton, G. Marshall, 150 Nassau
Lee & Hewitt, 1123 B'way
Leeming, Woodruff, 20 Broad
Lehlbach, Edward, 507 5th av
Leicht, Adolph F., 9 W 42nd
Leining, Lewis, Jr., 160 5th av, & 355 E 19th
Leo, John P., 770 St. Nicholas av
Leonard, G. Francis, 150 Nassau
Levingson, Samuel, 29 W 42d
*Levitan, Benj. W., 381 5th av
Licht, Geo. A., 4 E 39th
Litchfield, Electus D., 244 5th av
Litchfield & Wagner, 1721 Cruger av
Little & O'Connor, 5 W 31st
Lloyd, Percival M., 109 Lexington av
Lohse, Christian F., 598 St. Ann's av
Loney, Fred'k R., 103 Park av
*Lord, Hewlett & Tallant, 345 5th av
Lovell, Clinton P., 12 E 42d
Lowell, Guy, 225 5th av
Lowinson, Oscar, 18 E 42d
Lowndes, Wm. Shepherd, 15 W 38th
Lucas, Herbert, 129 E 19th
Luce, Clarence, 334 5th av
Luce, Cortlandt F., 334 5th av
Ludlow & Peabody, 12 W 31st
Lyall, Earl Harvey, 2 W 33d
Lyall & McKee, 334 5th av
Lynch, Elliott, 341 5th av
Lyons, Robt. T., 1503 B'way
*McCabe, Geo. M., 96 5th av
McCarroll, Jos. A., 3 W 29th
McCrea, A. Wallace & Co., 23 E 15th
McElfatrick, W. H., 701 7th av
McGlashan, Norman, 114 E 28th
McGrath, Dudley, Fuller bldg
*McGuire, Jos. H., 45 E 42d
McGuire, Milton H., 1123 B'way
McIntosh, Alex. (Inc.), 21 E 20th
McKenzie, Voorhees & Gmelin, 1123 Bway
McKim, Alex. Rice, 116 E 28th
*McKim, Mead & White, 160 5th av
McLellan, Hugh, 1123 Bwya
MacDonald, Evan T., 41 W 23d
MacKenzie, Clinton, 82 Beaver
Macintosh, Alexander, 55 Bible House
Magonigle, H. Van Buren, 7 W 38th
Maher, Jas. S., 1267
Maine, Frederic E., 140 Liberty
Mainzer, H. R., 105 W 40th
Malcolm, Daniel G., 331 Madison av
Mann & MacNeille, 12 E 45th
Marcus, Bertram N., 347 5th av
Markowitz & Elliott, 32 Union sq
Marsh, A. L. C., 97 Nassau
Marsh, David, 19 B'way
*Marshall, Henry Rutgers, 3 W 29th
Martire, Angelo H., 16 W 31st
Marvin, Davis & Turton, 303 5th av
Masqueray, Emanuel L., 200 5th av
Massareue, Wm. G., 1133 B'way
Mathesius, Fred'k, Jr., 103 Park av
Mathews, Chas. T., 381 4th av
Maurer, Louis C., 1493 Bway
Maynicke & Franke, 25 E 26th
Mellen, N. C., 29 W 34th
Merrick, Henry P., 1133 B'way
Merritt, Mortimer C., 1170 B'way
Mersereau, Wm. H., 32 B'way
Mertin, Adolph, 34 W 28th
Metcalf, Fred L., 108 Fulton
Metcalfe, Louis R., 27 E 22d
Meyer, Theodore A., 18 E 42d
Meyers, Chas. B., 1 Union sq
Michel, Jno. G., 302 B'way
Miller, Chas. E., 111 Nassau
Miller, Geo. S., City Island av, City Id
Miller, Wm. F., 1181 B'way
Mills & Greenleaf, 345 5th av
Moloney, Henry J., 4422 Park av
Montgomery, H. P. Alan, 10 E 33d
†Mooney, John B., 18 E 42nd
Moore, Frank A., 542 5th av
Moore & Landsiedel, 3rd av & 148th
Moran, Wm. E., 50 E 41st
Morris, Albert, 103 Park av
Morris, Chas., 200 5th av
Morris, Montrose W., 82 Wall
Morrison, Robert R., 82 Wall
Morse, Henry G., 340 Madison av
Morse, Jared K., 504 6th av
Moses, Lionel 2d, 156 5th av
Mosley, Richard K., 40 Wall
*Mott, Chas. T., 103 Park av
Mowbray & Uffinger, 56 Liberty
Muller, Max, 115 Nassau
Mulliken & Moeller, 103 Park av
Murchison, Kenneth M., 298 5th av
Murray, John M., 302 B'way
Murphy & Dana, 331 Madison av
Musty, Frederick, 23 Park row
Nash, Arthur C., 27 E 22d
Nash, Thos., 1170 B'way
Nast & Springsteen, 21 W 45th
Necarsulmer, Edward, 507 5th av
Nelson & Vanwagenen, 15 W 38th
Neville & Bagge, 215 W 125th
Newman, Frank E., 1123 B'way
Newman, Thos. L., 2164 Westchester av
Newman & Harris, 1123 B'way
Nichols, Geo., 82 Wall
Nicoll, Andrew & Co., 81 Wash'n
Nitchie, John E., 150 Nassau
Nordheim, Henry, 1087 Tremont av
Norris, Albert F., 150 Nassau
Norton, Frank L., 32 B'way
Norwood, Jas. A., 215 W 134th
Oakman, Jno., 27 E 22d
O'Connor, Jas. W., 1123 B'way
Ogden Co., 21 Park Row
Olcott, Horatio W., 28 E 21st


**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.


Oliver, Leslie A., 103 Park av
O'Meara, Jno. S., 100 E 83d
Orchard, Wm. H., 120 W 42d
Palmer & Hornbostel, 63 William
Parish & Schroeder, 12 W 31st
Parker, Gurdon S., 160 5th av
Parsons, Floyd Y., 1133 B'way
Parsons, Robert E., 340 Madison av
Pauli, Augustus C., 331 Madison av
Peabody, Wilson & Brown, 389 5th av
Pearsall, Wm. Rice, 39 W 38th
Peck, Chas. F., 140 W 42d
Peck, Howard M., 25 E 26th
Peck & Prevot, 25 E 26th
Pelham, Geo. F., 507 5th av
Pell & Corbett, 122 E 25th
Pelton, Henry C., 8 W 38th
Perkins, Frenk E., 225 5th av
Petit, Jno. J., 103 Park av
Phelps, Stowe, 20 W 43d
Phillips, J. H., 103 Park av
Phillips, Wm. S., 103 Park av
Phillips & Ingalls, 103 Park av
Phyfe, Lloyd I., 949 Odgen av
Pickering & Walker, 103 Park av
Pierson, Walter B., 72 Trinity pl
Pigueron, Wm. G., 32 Union sq
Pike, Gordon B., 151 W 23d
Pilcher & Tachau, 109 Lexington av
Pirner, Anton, 1656 Holland av
Pittman, Henry C., 22 E 21st
Platt, Chas. A., 11 E 24th
Platt, Fred'k P., 1123 B'way
Pollard, Geo. Mort., 127 Madison av
Poole, Thos. H. Co., 13 W 30th
Pope, Jno. Russell, 527 5th av
*Post, Geo. B. & Sons, 341 5th av
Potter, Howard N., 314 Madison av
Potter, Wilson, 1 Union sq W
Prager, Raphael, 149 B'way
Pratt & Godwin, 103 Park row
Provot, George, 104 W 42d
Purdy, Wm. S., 320 5th av
Putzel, Jos., 31 E 62d
*Quinby, Frank H., 99 Nassau
Radcliffe & Kelley, 3 W 29th
Radford Architectural Co., 178 Fulton
Rahmann, Wm. H., 95 Liberty
Raymond, Wm. Oakley, 17 B'way
Reed, Frederick N., 30 Church
Reed & Stem, 5 E 42d
Regelmann, Henry, 133 7th
Reid, Chas. E., 132 E 23rd
Reiley & Steinback, 481 5th av
Reissmann, Otto, 30 1st st
Remick, Arthur T., 37 E 28th
*Renwick, Aspinwall & Tucker, 320 5th av
Renwick, Wm. W., 41 W 27th
Rich, Chas. A., 320 5th av
Richardson, Wm. Symmes, 55 W 52nd
Richter, Chas. H., 68 Broad
Rieser, Solon J. & Co., 63 5th av
Ritterbusch, Conrad, 156 5th av
*Robertson, R. H. & Son, 331 Madison av
Robins, W. Powell, 27 E 22d
Robinson, G. & Son, 15 Old B'way
Robinson & Knust, 105 W 40th
Rocker, Philip J., 1 Madison av
Rogers, Jas. Gamble, 11 E 24th
Rogers, Robt. E., 5 E 42d
Rogers & Zogbaum, 346 4th av
Rogstad, O., 1133 B'way
Rohl, Richard, 128 Bible House
Romeyn, Chas. W., 55 B'way
Rooke, Frank A., 489 5th av
Rose, Charles Fred'k, 1 Madison av
Ross, Albert R., 16 E 22d
Ross, Arthur M., 345 5th av
*Ross & McNeil, 39 E 42d
Rossbach, Erwin W., 2010 Bway
Rossiter, Ehrick K., 15 W 38th
Roth, Emery, 20 E 42nd
Rouse & Goldstone, 40 W 32d
Rousseau, Francis X., 1133 B'way
Rowe, Thos., 140 W 42d
Rowe & Keyes, 1123 B'way
Sargent, Edw. A., 1 B'way
Sass, Samuel, 32 Union sq
Satterlee & Boyd, 1123 B'way
Satterthwaite, Pennington, 27 E 22d
Sawyer, Philip, 50 E 41st
Schaefer & Jaeger, 403 E Tremont av
Savelbye, H. F., 114 E 28th
Schaeffler, Joseph C. & Co., 151 W 91st
Scharsmith, Jno. E., 331 Madison av
Schefcik, Frank J., Park av & 176th
Schelinger, Geo. L., 25 W 32d
Schmitt, Anthony F. A., 604 Courtlandt av
Schneider & Dieffenbach, 220 Bway
Schoen, Eugene, 25 W 42d
Schumann, Chas. H., 280 B'way
Schumm, W., 21 W 45th
Schwanewede, Wm. F., 32 B'way
Schwartz, Morris, 194 Bowery

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Schwartz & Gross, 347 5th av
Schwarz, Gustav, 302 E 158th
Schweitzer & Diemer, 45 Leonard
Scopes & Feustmann, 37 E 28th
Seaver, Wm. P., 322 5th av
See, Milton & Son, 6 W 22d
Seifert, Karl F. J., 25 W 42nd
Selfridge, Russell, 18 W 31st
Serracino, Nicholas, 1170 B'way
Severence, Harold C., 21 W 45th
Seymour & Schonewald, 18 E 42d
Shafler, Samuel B., 149 Bway
Shape, Robt. L., 156 5th av
Sheinart, Louis A., 192 Bowery
Shepard, Augustus D., Jr., 36 E 23d
Shepard, B. H., 97 Warren
Shepard, Ralph R., 340 Madison av
Shire & Kaufman, 373 4th av
Simonson, B. Eustace, 315 5th av
*Slocum, S. Gifford, 1170 B'way
Small, Franklin M., 265 B'way
Smith, Henry A., 1181 B'way
Smith, J. Andre, 103 Park av
Smith, Oscar B., Jr., 346 4th av
Smith, Wm. Neil, 20 W 33d
Smith, Wm. Wheeler, 82 Wall
Smith & Cromwell, 104 W 42nd
Smith & Ross, 103 Park av
Smyth, David W., 41 Liberty
†Smyth & Gillen, 1911 Westchester av
Sneden, Arthur Durant, 149 Bway
Snelling, Grenville T., 114 E 28th
*Snook, John B. Sons, 73 Nassau
*Snyder, Chas. B. J., Architect to Board of Education, 500 Park av
Snyder, Frank M., 608 W 111th
Sommerfeld & Steckler, 19 Union sq
Spannhake, Otto L., 233 E 78th
Sparry, Chas. H., 11 W 36th
Spitzer, Geo. W., 500 5th av
Squires & Wynkoop, 27 E 22d
Starrett Goodwin & Van Vleck, Everett
Stegmayer, Charles, 168 E 91st bldg
Steinam, Jos. L., 10 E 33rd
Steinmetz, Henry G., 1008 E 180th
Stephenson & Wheeler, 2 W 45th
Stern, Benj. E., 7 W 38th
Sterner, Fred'k J., 139 E 19th
Stevens, Benj. Rush & Co., 50 Church
Stewart, Francis G., 103 Park av
Stillman, Michael, 124 E 25th
Stoddart, Wm. L., 30 W 38th
Stollwerk, Leo, 82 Beaver
Stone, David, Bible House
Stone, Fred'k S., 55 B'way
Storm, Edwin R., 160 5th av
Stoughton & Stoughton, 96 5th av
Strack, Otto, 220 E 23d
Straker, Albert E., 191 9th av
Straub, A. S., 213 W 125th
Straub, Chas. M., 147 4th av
Straub, Chas. M., 147 4th av
Straub, Frank, 18 E 42d
Streeton, Geo. H., 31 W 27th
Strong, Mason R., 7 Wall
Strout, Wm. A., 81 Fulton
Sturgis & Faxon, 114 E 28th
Sugar, Solomon S., 104 W 42d
Summerville, Foster M., 1 Madison av
Sutcliffe, Arthur T., 47 E 84th
Sutton, Chas. M., 70 5th av
Swasey, Wm. A., 47 W 34th
Sweezy, Larremore V. V., 185 Madison av
Symonds, Harold D., 105 W 40th
Symonds, Wm. H., 105 W 40th
Tallant, Hugh, 345 5th av
Tandy & Foster, 1931 Bway
Taylor, Alfred H., 138 W 65th
Taylor & Levi, 105 W 40th
Taylor & Mosley, 40 Wall
Teale, Oscar S., 35 B'way
Thain, Chas. C., 4 E 42d
Thinnes, Jacob, Jr., 425 5th av
Thompson, G. Kramer, 452 5th av
Thompson & Frohling, 114 E 28th
Thomson, Theo. R., 505 E Tremont av
Tillack, J. L. Theodore, 99 Nassau
*Tilton, Edw. L., 32 B'way
Todaro, Vincent S., 147 4th av
Toelberg, Niels, 1167 Fox
Tompkins, John Almy, 20 W 43d
Torstrick, Wm. H., 110 E 23d
Towner, Wm. T., 320 5th av
Townsend, Steinle & Haskell (Inc.), 47 W 34th
Tracy, Swartwout & Litchfield, 244 5th av
Trowbridge & Ackerman, 114 E 28th
*Trowbridge & Livingston, 527 5th av
Truex, Fred'k N., 1170 B'way
Trumbauer, Horace, 200 5th av
Tryon, Thos., 39 E 28th
Tubby, Josiah T., Jr., 81 Fulton
*Tubby, Wm. B., 81 Fulton
*Tuthill, Wm. Burnett, 105 E 22nd
Upjohn & Conable, 96 5th av
Valentine, Chas. A., 346 4th av
Van Auken, Geo. H., 30 E 14th
Vanderbent, Tunis J., 160 5th av
Van Pelt, Jno. V., 381 4th av
Van Valkenberg, Carlton, 147 4th av
Van Vleck & Goldsmith, 111 5th av
Very, Samuel R. T., 25 W 42d
Visscher, Theo. C., 425 5th av
Voelker, John P., 979 3d av
Volz, Chas., 160 5th av
Vreeland, Jno. J., 2019 Jerome av
Waid, D. Everett (and Consulting Architect), 1 Madison av
Walker, Jno. E., 3 Union sq, W
Walker, Richard, 225 5th av
Walker & Chichester, 103 Park av
Walker & Gillette, 128 E 37th
Walker & Hazzard, 437 5th av
Walker & Morris, 200 5th av
Wallace, Jos. H. & Co. (Industrial Arch. & Eng's), 5 Beekman
Wallis & Goodwillie, 346 4th av
Walther, John P. & Bartholomew, 147 E 125th
Ward, Frank F., 203 B'way
*Ware, Jas. E. & Sons, 1170 Bway
Warren, Chas. P., 15 W 38th
Warren, Fred'k, 103 Park av
Warren & Wetmore, 3 E 33d
Warrington, Leslie G., 41 E 30th
Warwick, Fred'k L., 25 E 42d
Watson, John C., 271 W 12th
Webb, Gregory B., 25 W 42d
Webster, Daniel T., 160 5th av
Wehrlin, Edw., 309 B'way
*Weiher, Lorenz F. J., 271 W 125th
Welch, Alex. McM., 11 E 42d
Welch, Winthrop, 3 W 29th
Wells, J. Hollis (of Clinton & Russell), 32 Nassau
Wennemer, Frank, 2148 Honeywell av
Werner & Windolph, 27 W 33d
Westervelt, J. C., 36 W 34th
Weston, Geo. F. (Arch'l Engr.), 97 Water
Wheeler, Dunham, 126 E 27th
Wheeler, H. Herbert, 2 W 45th
White, Benj. V., 110 E 23d
Whitfield, Henry D., 160 5th av
Wilbur, Edwin, 120 Liberty
Wilcox, F. Nelson, 37 E 28th
Wilder & White, 156 5th av
Wilkinson, Henry W., 114 E 28th
Wilson, Albert, 389 5th av
Wilson, Wilson & Visscher, 425 5th av
Willauer, Sharpe & Bready, 156 5th av
Winterburn, F. W. (of Clinton & Sussell), 32 Nassau
Wisch, Charles, 200 5th av
Wiseman, Henry G., 106 W 142d
*Wolf, Joseph, 103 Park av
Wolfgang, Franz, 531 E Tremont av
Wood, Arthur W. B., 1 Madison av
Wood, Geo. E., 311 Madison av
Wooley, Jno., 200 5th av
Wright, Frank A., 110 E 23d
*Wright, Frank M., 567 5th av
Wulff, Chas. A., 340 Madison av
York & Sawyer, 50 E 41st
Young, Edw. Lee, 12 E 30th
Young, Harold L., 67 W 125th
Zipkes, Maximillian, 103 Park av
Zlot, Harry, 230 Grand
Zobel, Fred'k C., 121 E 27th
Zuelch, Jno. J., White Plains rd, c E 211th & Williamsbridge sq

## Borough of Queens.

COLLEGE POINT—McCracken, E. L.
CORONA—Bisaccio, Carl
Card, I. P.
Johnson, Robt. W.
Lobejager, Chas. M.
McIntyre, Wm.
Magnoni, Angelo
Spicer, Chas. B.
Varrone, Crescent L.
Worrell, Wm.
ELMHURST—Hendry, Chas.
Rose, Edw. & Son
EVERGREEN—Berger, Carl, 687 Cornelia
Berger, Louis & Co., Myrtle & Cypress avs
FAR ROCKAWAY—Bogart, Albert J.
Howard, Harry & Co. 11 Mott av
Leman & O'Kane, Mott av & George
Powers, J. P. & Co., 262 Central av
Smith, Morrell, 252 Central av
Wertheimer & Cornell, 260 Central av
FLUSHING—Collins, Horace, 316 State
Cooper, Gustave A., 77 Whitestone av
Kraemer, Wm. H., 45 Main
Richardson, Albert E., 99 Main
Roe, Edw. M., 117 Main
JAMAICA—Dammar, Wm., 5 McAuley pl
Finn, Wm. A., 358 Fulton
Harrison, Ole, 357 Fulton
Holly, F. S., 175 Rockaway rd
Kirby, Isaac M., Union Hall
Oborne, H. I., 295 Amherst av
Thomas, Otto, 354 Fulton
Tuthill & Higgins, P. O. bldg
LONG ISLAND CITY—Baker, John M., 21
Chmelik, Frank, 796 2d Jackson av
Ferland, Jos. A., 9th & Vanderventer avs
Hewitt, Chas. W., 95 Fulton
Koch, Jno., 480 18th av
Korfmann, Fred'k W., 333 8th av
Reidy, Michael J., 184 Main
Sauermilch, Emil G., 395 Steinway av
Seifert, Peter, 83 Graham av
Sholl, Henry E., 603 7th av
Sproesser, Frank, 305 B'way, Astoria
Tesseyman, Wm. H., 38 Hoyt av
Wilkinson, Geo. T., 1039 Boulevard
OZONE PARK—Stahl, Geo.
RICHMOND HILL—Bauer, Chas., 307 Park
Brown, Walter J., 160 Cedar av
Hall, Steele, 11 Jefferson av
Haugaard, Henry, 3206 Jamaica av
Jeffrey, Henry T., 140 Lefferts av
Moore, Thos. J., 468 Elm
Murphy, John M., Spruce, n Beaufort
Vanderbeck, Chas. W., 2708 Jamaica av
Van Deusen, Clarence R., 120 Vine
ROCKAWAY BEACH—Ball, Frank B., 470 Blvd
Berrian, Edw. N., Thompson av
Caplin, Philip & Co., 497 Blvd
Kennedy, W. T. & Co., 462 Blvd
WHITESTONE—Berrier, Robt., 71 W 12th
Cooper, Gustavus A., 75 Whitestone av
Relyea, Wm. H., 44 N 15th
Zipf, Adolph
WOODHAVEN—Jaeger, Louis, 172 Shaw av
Lepage, Matthew
Ross, Chas. W.

## Borough of Richmond.

PORT RICHMOND—Bouton, Chas. E., 2072 Richmond terrace
Lawlor, Michael J., 213 Prospect
Lodge, Wm. J., 28 Richmond av
Pelcher, Harry, 20 Richmond av
Perkins, Thos. C., 1935 Richmond terrace
Smith, Irving W., 43 Grace Church pl
Sterner, Frank B., 2028 Richmond terrace
Whitford, Jas., 24 Richmond av
STAPLETON—Otto, Henry G., 49 Jackson
TOMPKINSVILLE—Loeffler, Otto, 360 Bay
WEST NEW BRIGHTON—Deschaux, Geo. A., 721 Henderson av
Winans, Jno., 117 Pelton av

## (End of New York City)

NIAGARA FALLS—Larke, Simon, 608 Elmwood av
Phelps, C. H., Bluck bldg
White, Jas. R., Elderfield Hartshorn bldg
Wright, Geo. W., Arcade bldg
NORTHPORT—†De Vean, John D.
NORTH TONAWANDA—Gray, Leon W.
NORWICH—Cook, W. H.
NYACK—Emery, Marshall L. & Henry G.
Simonson, J. B.
OCEANUS—(See New York City, Borough of Queens)
OGDENSBURG—Williams & Johnson
OLEAN—Brickell, H. L.
ONEIDA—Murray, Valentine P.
Skinner, Theo. H.
ONEONTA—Blend, L. H.
OSWEGO—Seeber, John
PALMYRA—*Blaby, Joseph, Jarvis blk
PEEKSKILL—Barker, Asbury
Travis, Cyrus H.
PHELPS—McKinney, Corliss
PIERMONT—Smith, Lyndon Peck
PORT CHESTER—Ponty, D. H., Jr.
Ward, W. A.
PORT HENRY—Curtis, John B.
PORT JEFFERSON—Smith, W. I.
PORT RICHMOND—(See New York City, Borough of Richmond)
POUGHKEEPSIE—Beardsley, Wm. J., 49 Market
Carpenter, Du Bois, 45 Market
Lloyd, Percival M., Washington & Main
Smith, Edward C., 39 Market
RHINEBECK—Decker, R. A.
RICHMOND HILL—(See New York City, Borough of Queens)
RIVERHEAD—Blume, Edwin H.
Skidmore, Geo. H.
ROCHESTER—*Block, Otto, Wilder bldg
Bragdon, Claude F., Cutler bldg
Brockett, F. A., Cutler bldg
Brockett, W. J., Powers bldg
Byers, Matthew T., Exchange bldg
Byers, Robert S., Central bldg
Camp, F. S., Elwood bldg

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Crandall, Chas. F., E. & B. bldg
Cutler, J. G. & J. W., Cutler bldg
Fay & Dryer, 62 East av
*Foote & Headley, Cutler bldg
Gordon & Madden, 300 Sibley blk
Hatton, Horace T., Cutler bldg
Hirschfelder, C. M., Exchange bldg
Hutchinson, Geo. F., Triangle bldg
Larzelere, H. L., German Ins. bldg
Lempert, Leon H. & Son, 31 Pearl
Littlefield, H. B., Cutler bldg
Oberlies, Jos H., Granite bldg
Otis, George T., Cutler bldg
Pierce, Herbert W., 41 City Hall
Platt, J. Mills, 921 Cham. of Com. bldg
Salter, James A., 341 Granite bldg
Stern, Leon, Cham. of Com. bldg
Tyler, Jas. R., E. & B. bldg
Walker & Nichels, E. & B. bldg
Warner, A. J., Powers bldg
*Warner, J. Foster, 1036 Granite bldg
Wengender, John, 22 Kelly

ROME—Kirkland, F. W.
Schillner, G. C.

ROSCOL—Berner, R. F.

RYE—Wainwright. Richard T.

SAG HARBOR—Bessenden, W. A.
Thomas, J. H.

SANDY HILL—Cunningham, Jno. J.
McCarty, James

SARANAC LAKE—Coulter & Westhoff
Scopes & Feustmann

SARATOGA SPRINGS—Breeze & Mallory
Vaughan, F. G.

SAYVILLE—Green, Isaac H., Jr.

SCARBORO-ON-HUDSON—Arnold, Clinton S.

SCHENECTADY—Abrams, Geo. H., 170 Jay
Davis, Edward L., 159 Clinton
Dutton, Edw. L., 900 State
Finch, Oren, State & Jay
Harrigan, J. C., 345 Summit av
Heidrich, Chas. A., 423 State
Lindley, Arthur G. Co., Parker bldg
Martin, E. L., 158 Jay
Mynderse, W. T. B., 225 State
Nichols, L. Rodman, 208 S Center
Rankin, Albert, Ave A & Kenwood
Van Rensselaer, C. G., 175 Jay

SPRING VALLEY—Eickoff, O. S.

STAPLETON—(See New York City, Borough of Richmond)

SYRACUSE—Baxter, Geo. W., Jr., Onondaga Savings Bank bldg
Brockway, A. L., Syracuse Savings Bank
Conway, Merritt C., 322 Bastable bldg
Gaggin & Gaggin, University blk
Gillette, Thurber J., 811 Park
Makepeace, M. D., Everson bldg
Meehan, Jas. D., Hendricks bldg
*Merrick & Randall, S., A. & K. bldg
Phoenix, Harry D., Rosenbloom bldg
Russell & King, Snow blk
Taber & Baxter, O. C. S. Bank bldg
Taylor, A. T., 118 E Jefferson
Ward, W. W., Moyer Farm
Wright, Gordon A., O. C. S. Bk bldg

TROY—Clark, W. E., Cannon pl
Cummings, M. F. & Son, State Bank bldg
Demers & Campaigne, Ilion bldg
Fielding, Harry P., 282 River
Hatch, Wm. N., 251 Bway
Lee, Stanton P., 314 Cannon pl
Loth & Millman, 253 B'way
Sweet, Wm. A., 10 1st

UTICA—Agne, Rushmer & Jennison, 211 Arcade
Cooper & Bagg, 219 Genesee
Frank, Walter G., 219 Genesee
George, Richard A., 69 Genesee
*Gouge, Fred'k H., 70 Genesee
Hobbes, Jno. A., 191 Genesee
Hubbard, Melvin H., 82 Arcade
Kinne, Linn, 108 Genesee
Stroebel, Wm. L., 185 Genesee
Williams, Thos. H., 201 Bunker

WATERTOWN—Cooper, Madison Co. (Refrigerating Engineers & Architects)
Dewey, Chas. E., Bank bldg
Eaton & Brownell (Specialty Mills)
Griffin, J. W., Bank bldg
Kieff, D. D., 24 Flower bldg
Lansing, A. F., Burdick bldg
Oliver, Geo. D., 9 Dewey av
Skinner, A. M., Bank bldg

WEST NEW BRIGHTON—(See New York City, Borough of Richmond)

WHITE PLAINS—Brown, Frank Horton
Moore, Jno. C.
Petry & Sayward

WHITESTONE—(See New York City, Borough of Queens)

WOODHAVEN—(See New York City, Borough of Queens)

WOODSIDE—Ferland, Jos. A., 157 Rester av

YONKERS—Brown, Elliott L., 506 S B'way
Chamberlain, G. Howard, 18 Getty sq
Cowles, Geo. S., 8 Getty sq
Forsyth, Edw. A., 51 Warburton av
Grewey & Birmingham, Warburton bldg
Heapy, Wm., 436 S Bway
Katz, Wm. P., Kleinert bldg
Phillips, Frank, 79 Morningside av
Quick, Edwin A. & Son, Yonkers Savings Bank bldg
Rayner, Geo. & Sons, 13 Warburton av
Snyder, Wm. F., 1 Palisade av
Tait, Wm. O., Rossmore
Van Suetendael, Arthur J., 15 N B'way
Watson, Jas. A., Phillipsburg bldg

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ASHEVILLE—Lord, Wm. Henry
Smith & Carrier

CHARLOTTE—Asbury, Louis H.
Bonfoly, F. L.
Hook & Rogers
Hunter & Gordon
McMichael, J. M.
Wheeler & Stern

DURHAM—Linthicum, H. C.

GREENSBORO—Brewer, Wells L.
Hopkins, J. H.
Weston, F. A.

NEWBERN—Simpson, H. W.

RALEIGH—Barrett, C. W.
Hartge, C. E.
Kellar, H. P. S.
Kennedy, J. M.
Thomson, Frank K.

WILMINGTON—*Bonitz, H. E.
Leitner, J. F.

WINSTON SALEM—Northrup, W. C.
Zimmerman & Purviance

## NORTH DAKOTA.

ELLENDALE—§Brown, John A. & Martin
†Mallory, William

FARGO—Beebe, M. E.
Hancock Bros.
Haxby & Gillespie
O'Shea, A. J.

GRAFTON—Mott, J.

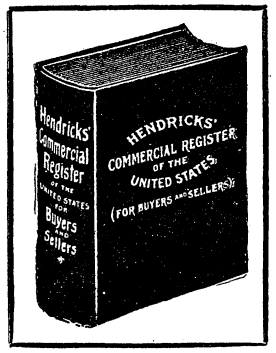
GRAND FORKS—De Remer, Jos. B.
Edwards, W. J.
Ross, J. W.

MINOT—Cross, Velma
Frost, R. T.
Woodruff & McGulpin

WAHPETON—Schuler Bros.

## OHIO.

AKRON—Fichter, J. A., Akron Saving & Loan bldg
*Ginther, Wm. P., Arcade bldg
Hagloch, Fred W. Co., Flatiron bldg
Harpster & Bliss, Nantucket bldg


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Mantz, N. A., 234 Spicer
Moore Architectural & Eng. Co., Everett
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BOWLING GREEN—Brown, Homer C.
BUCYRUS—Jones, Harlan
CAMBRIDGE—Orr, Jno. F.
CANTON—Bostwick, J. M., 123 E Tuscarawas
Epperson, W. S., Courtland bldg
Tilden, Guy, Schaefer blk
CHILLICOTHE—Cook, John F.
Schweitzer, John
CINCINNATI—Adkins, John S., Mitchell bldg
Baldwin, Bert L. & Co., Perin bldg
Bausmith & Drainie, Gerke bldg
Carpenter, Martin R., Oakley
Chapman, J. L., 2d Nat'l Bank bldg
Coyle, Joe, Avon
Davis, David, 41 E 4th
*Des Jardins & Bevis, Pickering bldg
*Dittoe, Louis G., Prov. Bank bldg
Dornette, Edward H., Pickering bldg
*Drach, Gustave W., Union Trust bldg
*Elzner & Anderson, Ingalls bldg
Fahnestock, Ferber & Robertson, Gerke bldg
Fasse, Chas. H., 2412 Gilbert av
Fechheimer, A. Lincoln, Lyric Theater bldg
Fisher, Martin, 2156 Central av
*Foster, C. M., Mer. Library bldg
Franklin, Wm. W. & Son, Commercial Tribune bldg
Garber & Woodward, Andrews bldg
Gilmore, Jas., 4th Nat'l Bank bldg
Glaser, Emile F., cor. Elm & McMicken av
*Godley, S. S., 803 Neave bldg
*Hake, Harry, 5th & Race
Hall & Burroughs, 4th Nat'l Bank bldg
Halstead, Edwin H., 14 E 4th
*Hannaford, S. & Sons, Hulbert blk
Hayward & Cordes, Union Trust bldg
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Huesman, A. J., 1317 Main
Kau, Max, 2241 Guy Clifton Heights
Kennedy, H. E. & Co., 2d Nat'l Bank bldg
Kuball, Albert C., Lincoln Inn Court
Kunz, Anthony, Jr., 955 W Court
Moosmiller, P. E., 1st Nat'l Bank bldg
Naylor, M. E., 2016 Eastern av
Pfeiffer, Philip G., 10 E McMillan
Rapp, Zettel & Rapp, Johnston bldg
Richards, Jno. R., 2d Nat'l B'k bldg
*Rieg, Anton, 2554 Vine
Robinson, W. Stanton, 326 Purcell av
Roebling, Chas., 4145 W 8th
Rueckert, Jacob J., Allen bldg
Ruggles, Wm. C., Bell blk
Sax, Moritz, 4th Nat'l Bank bldg
Sheblessy, J. F., Provident B'k bldg
Sloctemyer, Jos. & Ihorst, Lincoln Inn bldg
Smith & Heitmeyer, 1st Nat'l Bank bldg
Steinkamp, Jos. G. & Bro., Mercantile Library bldg
Stewart, James R. & Robt. W., Bell blk
Striker, John P., 813 Purcell av
*Taylor & Decamp, Neave bldg
*Tietig & Lee, Lyric Theatre bldg
*Weber, C. C. & E. A., Mer. Library bldg
*Werner & Burton, Mitchell bldg
Wisenall, Bernard T., Blymyer bldg
CLEVELAND—Albinger, Frank E., Cuyahoga bldg
Badgley & Nicklas, 6110 Euclid av
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Chamberlin, O. N., McCaskey blk
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Cone, Harry A., Schofield bldg
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Corning, Burt W., Schofield bldg
Crabb, Robert, 5607 Euclid av
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Page & Corbusier, Lennox bldg
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*Sabin, Wm. Warren, New England bldg
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Tousley & Thebaud, Bangor bldg
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Vorce, M. B., Garfield bldg
Walsh, Henry A., Lennox bldg
Warner, Franz C., Citizens bldg
Weis, S. H., Reserve bldg
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White & Shupe, Schofield bldg
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Dawson & Holbrook, Outlook bldg
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Howard & Merriam, Capitol Trust bldg
Howell & Thomas, Col. Sav. & Trust bldg
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Jones, J. A., Despatch Annex
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Pruitt, Edw. E., Y. M. C. A. bldg
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Rickett, E. H., Columbia bldg bldg
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Stribbling & Lum, 85 N High bld.
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Hughes, Fred J., U. B. bldg
Mountstephen, Edw. J., McIntire bldg
Niehaus, Gustave A., Callahan blk
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Pretzinger, Albert, Reibold bldg
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Slover Bros., Canby bldg
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*Williams, Chas. I., Callahan blk
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LANCASTER—Stewart, C. K.
Vorys, I.
LIMA—Chapin, John A.
De Curtians, A.
Leech & Leech
McLaughlin & Hulsken
Matthews, B. F.
LOGAN—Magoon, M. A.
LORAIN—Ellis, C. O.
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Gawn, J. D.
Kissman, Paul A.
Prescott, Jno. H.
States, W. T.
Wurmser, H. O.
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Jones, Harlan
*Redding, Vernon
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Hovey, George T. & Son
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MILFORD—Elliott, Chas. N.
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NEW LEXINGTON—Strosnider, Jess L.
NILES—Souder, C. P.
NORWALK—*States, W. T.
NORWOOD—Stewart, Jas. R.
PAINESVILLE—Thayer, Irwin W.
PIQUA—Bowdle, C. F.
PORTSMOUTH—De Voss & Wilson
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SALEM—Cameron, Albert
Hutton, Finley
SANDUSKY—Shivelly, S. H. & Son
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Gotwald, Robert C., Gotwald bldg
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Smith, Harry G., Bushnell bldg
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Annin, Wm. H., The Spitzer
Bacon & Huber, The Spitzer
Becker, Bernhard, Gardner bldg
Buer, J. L., 731 Balfe
Dowling, Wm. R., 2121 Forest av
Downey, J. A., The Nasby
*Fallis, E. O., The Nasby
Hunt, Wm. B., The Spitzer
Johnson, A. W., The Spitzer
Kimball, Wm. G., the Spritzer
Langdon & Hohly, Nicholas bldg
Liebold, Herman A., 515 Jefferson av
Matz, J. W., Hartford blk
Mills, Geo. S., Gardner bldg
Rheinfrank, G. B., Gardner Bldg.
*Stine, David L., The Valentine
Stophlet, Manfred, Ohio bldg
Thal, Edw., Drummond blk
Thurstin, W. G., The Nasby
Tschumy & Co., 108 Summit
Wachter, H. W., 228 Colonade bldg
Walker, Forest E., 211 Main
Welker, L. G., The Spitzer
Witker, E. F., 1619 Locust
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WINTON PLACE—Werner, Geo. S.
WOOSTER—Power, S. A.
XENIA—Collins, A. C.
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Ellis, Wm. B., 28 E Federal
Goldston, I. J., Central sq
Hawk, O. E. & Co., Wick bldg
Hengist, T. A., Diamond blk
Judd, A. F., 141 E Federal
*Kling & Zenk, 115 W Federal
Miller & Ford, Dollar Savings Bank
Ott, C. J., K. of C. bldg
*Owsley, C. F., Dollar Savings Bank bldg
Owsley, C. H., Dollar Savings Bank bldg
*Thompson, R. F., Central Ave. sq & Wick
Vaughn, George, 338 W Federal av
Wade, A. S., Wick bldg
Weaver, E. J., Federal bldg
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Meyer, Harry C.

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Vogel, J. W.
ENID—Crowell, A. A.
Scifers, Z. M.
Shaw, R. W.
Smith, F. Hasklin
FREDERICK—Prim, B. A.
GUTHRIE—Dole & Waterfall
Reeves, B. S.
Weathers, P. H.
HOBART—McCanse, Wm.
HOLDENVILLE—Larmour, W. W.
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Brodie, T. L.
McALESTER—Bergeron, Narcisse & Co.
Walsh, Jeffrey J.
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Canliff, Benj.
Dawson, Kedian & Valeur
†De Ward & Sons
†Farrell, Jno.
Layton, Wemyss
McKibban & McKibban
Ossenkop, Henry L.
†Parker, C. H.
Schmidt, J. W.
Smith & Traver
Smith, Parr & Van Doren
Sudhoelter, Chas. H. & Co.
†Tupper, Bird & Co.
OKLAHOMA CITY—Bailey & Bailey
Barutio, C. B. & Co.
Brown, Frank
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Collignon, G. W.
Hart, Ralph
Hawk, J. W.
Hyde, Frank D.
Keyser & Schreiber
Layton & Wemyss-Smith
Lobell, Chas. R.
Randall, J. Harry
Rocke, M. M.
Rose, Turbyfill & Wilkens
Ryan, James H. & Son
Smith & Parr
Van Meter & Schmitt
Van Slyck & Woodruf
Wells, Wm. A.
OKMULGEE—Fairchild, Chas. A.
PAULS VALLEY—Leedy, J. H.
SAPULPA—Davis & Keith
Foucart, L.
Griffith & Dugan
Lawler, H. C.
Myall & Brettner
SHAWNEE—Bramlett & Fleming
Davis & Horne
Mitchell, J. P.
Peters, E. J.
SULPHUR—Blacker, R. A.
TULSA—Blue, Lawrence E.
Hugenin & Sweoringer
Mathews & Cross
Ruggles, L. H.
Starr, Jno. V.
Winkler & McDonald
WEATHERFORD—Whitcomb, L. P.
WILBURTON—Seay, M. E.
WOODWARD—Hulse, W. E. & Co.

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Hand, W. R.
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ASTORIA—Wicks. J. E.
BAKER CITY—Gates, P. Fred
White, M. P.
CONDON—Winans, H. C.
DUFUR—Baker, S. P. & Son
EUGENE—Bird, Thomas G.
Ford, J. Ralph
Hensill, Y. D.
Huzicker, John
FOREST GROVE—Starrett, F. M.
HERMISTON—Frick, Howard A.
HOOD RIVER—Bartlett, R. R.
Sutton, Albert
LA GRANDE—Kammerer, Edward W.
MARSHFIELD—Eddy, A. H.
Turpen, W. S.
MEDFORD—Clark, Frank C.
Lyon, Chas.
McIntosh, J. A.
Morris, W. E.
Power, C. O.
NEWBERG—Watkins, S. E. & Son
NORTH BEND—Dilley, B. F.
Griffin, A. J.
OREGON CITY—White Bros.
PENDLETON—Howard, Theo. F.
PORTLAND—Arend, A. A., 1021 Tillamook
Bell, W. B., Board of Trade
Bennes & Hendricks, Henry bldg
Birnbach & Mayer, Marquam bldg
Black, H. N., 295 14th
Bonthron, James, Beck bldg
Bridges & Webber, Hamilton bldg
Browne, P. Chappel, Marquam bldg
Camp, H. L. & Co., 426 E Alder
Claussen & Claussen, Macleary bldg
Darling, A. F., Arlington bldg
Dittrich, Henry C., Worcester bldg
Downing, W. H., Railway Exchange
Doyle & Patterson, 423 Worcester bldg
Dunham, G. F., Lumbermen's bldg
Eastman, G. A., Abington bldg
Ertz. C. W., Lumber Exchange
Ewart, A. C., Beck bldg
Faber, A. H., 360 Ainsworth av
Fancher, H. M. Co., Henry bldg
Flickinger, D. B., Mohawk bldg
Fritsche, Wenzel, 1155 Belmont
Gibson & Cahill, Henry bldg
Goodrich & Goodrich, Lumber Exchange
Gould, A. H., Worcester bldg
Harvey & Hogner, Hamilton bldg
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Ingram, J. A., Henry bldg
Jacobberger, Jos., Board of Trade
Jones, T. J., 334 E 3d
Kable & Kable, Board of Trade
Kable, J. F., Macleary bldg
Kingsbury, Covey & Hallock, Lumber Exch.
King, H. B., Swetland bldg
Kleeman, Otto, 155 E 14th
Kratz, W. J., Henry bldg
Kroner & Henn, Worcester bldg
Lawrence, Ellis F., Chamber of Commerce
*Lazarus & Logan, Chamber of Commerce
Legg, F. A., Ainsworth bldg
Legg, W. F., 6-461 Belmont
Lewis, David C., Couch bldg
Lewis & Lewis, 401 22d, N
McClaran, E. E., Lumber Exchange
McNeil & Wallwork, Swetland bldg
McNaughton & Raymond, Concord bldg
Martin, Richard, Jr., DeKum bldg
Mayer, M. F., Marquam bldg
Mills, A. F., Commercial bldg
Moore, J. B., 335 Ross
Morgan, Fliedner & Boyce, Abington bldg
Murray & Richards, Rothchild bldg
Neer, Delos D., 133½ 1st
Nelson, W. E., Spanding bldg
Oliver, E. H., Beck bldg
Ots, Alexander, Marquam bldg
Parker & Banfield, 105 Grand av
Pipes, W. H., Henry bldg
Rae, Geo., Sherlock bldg
Rosth, R. J., Mohawk bldg
Robbins, C. C., Ainsworth bldg
Roberts & Roberts, Abington bldg
Root, E. T., Commercial Club bldg
Russell, A. W., 1068 E Lincoln
Sanders, W. A., Mohawk bldg
Schacht, Emil & Son, Commonwealth bldg
Smith, A. H., Board of Trade bldg
Spencer-McCain Co., Lumbermen's bldg
Stokes & Zeller, 390 E Stark
Straw & Allerton, Lumber Exchange
Swingle, F. A. & Co., McKay bldg
Tegen, R. F., Swetland bldg
Thogersen, A. A., Railway Exchange
Thompson, L. I., Electric bldg
Thoresen, Thorgils, Mohawk bldg
Tobey, W. F., Sherlock bldg
Travis, Wm., Sherlock bldg
Whidden & Lewis, Corbett bldg
White, F. Manson, 243 Holliday av
Williams, D. L., Chamber of Commerce bldg
Williams & Rasmussen, Lumber Exchange
Wilson, J. G., Worcester bldg
Wrenn, John O., Lewis bldg

ROSEBURG—Straw, Walter
SALEM—Hazeltine, Louis R.
Legg, Fred A.
STANFIELD—Hinebaugh, C. M.
THE DALLES—Crandall, C. J.

## PENNSYLVANIA.

ALLEGHENY—(See Pittsburg)
ALLENTOWN—Jacoby & Weishambel, Commonwealth bldg
Picken, Ephraim M., Allentown Nat'l Bank
Ruhe & Lange, 10 N 6th
ALTOONA—Bowman, J. B.
Millard, Julian
Sholler & Hersh
BEAVER—East, Wm. J.
BEAVER FALLS—Snyder, A. J.
BELLEFONTE—Cole, Robert
BETHLEHEM—Wiegner, Howard
BRADDOCK—Rankin, Jos. H.
BRADFORD—Brickell, E. F.
BUTLER—Foster, Wm.
Kline, H. Sills
CARNEGIE—Matheny, Claude A.
CHAMBERSBURG—Kedgy, Franklin
Rhoades, M. R.
COATSVILLE—Thorne, Eldwin W.
COLUMBUS—Paules, Granville E.
CORRY—Mount, A. P.
CRAFTON—Prack, Bernhard H.
DRAVOSBURG—Whitaker, Courtney L.
DUBOIS—Orner, Frank F.
Overdorf, Wm. H.
EASTON—Goodyear, John
Michler, Wm. H.
Morgenstern, Geo. E.
Wenzelberger, E. H.
ERIE—*Cody, C. Paxton, Downing bldg
Frank, Jos., Scott blk
Lee, Jos., 2734 Peach
Meyers, A. F., Lincoln bldg
*Yard, J. W. & Son, 808 State
FRANKLIN—Bradley & Bradley
Brakeman, Harvey
GLENOLDEN—North, Wm. F.
GREENSBURG—Bartholomew, Paul A.
Sloan, W. G.
Truxell, Geo. H.
HANOVER—Myers, I. M.
HARRISBURG—Bernheisel, Chas. H., 5 N 2d
Carter, C. G., 37 N 17th
Grove, Geo. H., 213 Walnut
Hamilton, Thos. H., 11 N Market sq
Kain, C. H., 209 S 13th
Kast, M. I., 204 Market
Lloyd, C. Howard, Telegraph bldg
Opperman, Karl T., 1201 Chestnut
HAVERFORD—Bailey, Wm. L.
Collier, Austin McD.
Evans, Allen
HAZLETON—Beck, Chas. O.
Luzerne Engineering Co.
DRAVOSBURG—Whitaker, Courtney L.
DUBOIS—Orner, Frank F.
Overdorf, Wm. H.
EASTON—Goodyear, John
Hellick, Chauncey G.
Hopkins, Frank
Michler, Wm. H.
Morgenstern, Geo. E.
Stewart, John M.
ERIE—*Cody, C. Paxton, Downing bldg
Frank, Jos., Scott blk
Lee, Jos., 2734 Peach
Meyers, A. F., Lincoln bldg
*Yard, J. W. & Son, 808 State
FRANKLIN—Brakeman, Harvey
Craig, Leland
Osborn, John
GLENOLDEN—North, Wm. F.
GREENSBURG—Sloan, W. G.
Truxell, Geo. H.
HANOVER—Myers, I. M.
HARRISBURG—Bernheisel, Chas. H., 5 N 2d
†Grove, Geo. H., 213 Walnut
Hamilton, Thos. H., 11 N Market sq
Kast, M. I., 204 Market
Lloyd, C. Howard, 216 Market
Opperman, Karl T., 29 N 2d
HAVERFORD—Baily, Wm. L.
Bertolett, Edward
Collier, Austin McD.
Evans, Allen
HAZLETON—Beck, Chas. O.
Luzerne Engineering Co.
HOMESTEAD—McClure, M. L.
Rowlands, Jno. C.
HUNTINGTON—Hall, J. Herbert
JOHNSTOWN—Boyd & Hall
Layton, J. R.
Lucas, J. Emmet
Myton, W. R.
Rogers, Henry M.
Wild, George
KINGSTON—Lathrop-Emery Co.
KITTANNING—Boney, Chambers F.
Megraw, Robert H.
LANCASTER—Evans, Clifton, 28 S Lime
Evans, Melvern R., 112 N Queen
Rothenberger, D. M., 17 N Queen
Urban, C. Emlen, Woolworth bldg
LANSDALE—Bean, M. B.
Conover, Samuel S.
LANSDOWNE—Lewis, Edwin B.
LANSFORD—Edwards, John C.
LATROBE—Slack, P. S.
LEBANON—Hauer & Mowere
Rapp, G. K. Warren
Ritcher, A. A.
LEWISTON—Montgomery, Harry B.
McKEESPORT—Lindmans, Henry J.
Lohman, H. J.
Palmgreen & Lindahl
Szava, Joseph
Wilson, W. F.
MEADVILLE—Richard, P. H.
MONONGAHELA—Keller, Frank P.
Yohe, Geo. W.
NEW CASTLE—Eckles, W. G.
Foulk, S. W. & Son
*Thayer, C. C. & A. L.
Wirsing, H. M.
NEW KENSINGTON—Laughlin, Wm. J.
NEWTOWN—Chamberlain, James B.
NORRISTOWN—Boggs, E. F.
Grates, Ursinus
OIL CITY—Bailey, "The Emmett Co."
Brenot, Joseph P.
PHILADELPHIA—Adams, Alex. M., 1012 Walnut
Adams, Clyde S., 1233 Arch
Allen, John D., Betz bldg
Allen, Wm. S.
Anderson & Haupt, Drexel bldg
Bailey & Bassett, 421 Chestnut
Baker & Dallett, 1629 Chestnut
Balderson, Chas., 411 Walnut
Ballinger & Perrot, 1211 Arch
Barnes, Amos W., 130 S 15th
Beale, Daniel S., 3102 N 16th
Bennett, Thos. F., Betz bldg
Berger, Carl P., Penn sq bldg
Bertolette, Edw. F., 32 S Broad
Bissell & Sinkler, Bailey bldg
Biswanger, C. Theo., 411 Walnut
Blauvelt, Henry J., Mariners' & Merchants'
Blithe, Wesley L., 608 Chestnut bldg
Boggs, Edw. T., 136 S 4th
Bolton, Chas. W. & Son, Witherspoon bldg
*Boyd, D. Knickerbocker, 139 S 15th
Boyd, Lawrence V., Harrison bldg
Boyle, Rowland W., 1626 Chestnut
Bradley, J. Frank, Hale bldg
Bright, Jno. I., 1701 Chestnut
Brockie & Hastings, 328 Chestnut
Brooke, Chas. J., 14 S Broad
Brooke, Chas. J., 14 S Broad
Bunting & Shrigley, 603 Chestnut
Bye, Mahlon J., 1003 Spruce
Caldwell, Francis G., Stephen Girard bldg
Chommeton, Eugene J., 1241 S Bucknell
Clark, Laurence, Witherspoon bldg
Coneys, Jno. L., 139 S 15th
Cope & Stewardson, 320 Walnut
Coyle, Jos. S., 622 Filbert
Cret, Paul, Weightman bldg
Cummiskey, Chas. J., 165 E Pomona
Curtis, Henry L., 1503 S Broad
Dagit, Henry D., 411 Walnut
Davis, Ellsworth, H., 430 Walnut
Davis, Seymour & Paul A., 1600 Chestnut
Day, Frank Miles & Bro., 925 Chestnut
De Armond, Ashmead & Buckley, 618 Chest-
De Hoff, Henry E., 48 S 61st
Dilks, Albert W., Mutual Life bldg
Dobbin, Geo. F., 8341 Germantown av
Dodge, Day & Zimmerman, 608 Chestnut
Dorsey, Lewis M., Jr., 2018 N 18th
Dothard & Dothard, 243 S 4th
Druckenmiller, Stackhouse & Williams, Land Title bldg
Duhring, Okie & Ziegler, Bailey bldg
Dull, Jno. J., Witherspoon bldg
Durang, Edwin F. & Son, 1200 Chestnut
Durham Bros., Heed bldg
Evans, Warner & Bigger, Witherspoon bldg
*Eyre, Wilson, 1003 Spruce
Fernald, Jas. C., 5533 Wyalusing
Fetterolf, Edwin H., Weightman bldg
Fielding, Mantle, 518 Walnut
Furber, Wm. C., 418 Walnut
Furness, Evans & Co., Provident bldg
Gallagher, Joseph, 46 S 44th
*Gardner, Clarence, Penn Mutual bldg
Geisz, Joseph A., 2845 N 12th
Gilchrist, Edmund B., Harrison bldg
Gill & Mercer, Drexel bldg
Granger, Alfred Hoyt, Bullitt bldg
Groben, Wm. E., Witherspoon bldg
Harris & Richards, Drexel bldg
Hauer & Mowere, 3110 Columbia
Hays, Frank A., Weightman bldg
*Hazlehurst, Edward, 1433 Chestnut
Heacock & Hokanson, Bailey bldg
Hearst, George, 5437 Morris, Gtn.
Heinke, Edward J., 160 W Sharprack
Helick, Chauncey G., 16th & Oxford
Herold, Jacob W., 932 N 11th
Herold, Otto, 2536 N 33d
Hewitt, Granger & Paist, Bullitt bldg
*Hickman, Chas. D. & Louis C., 328 Chest-
Hill, John J., 1929 N 23d nut
*Hillman, Chas. L., Provident bldg
Holland, Leicester B., 2006 Chestnut
Huston, Joseph M., Witherspoon bldg
*Hutton, Adidson, Stephen Girard bldg
Idell, Geo. S., Harrison bldg
Jackson, J. Elvin, 719 Walnut
Jackson, Wm. E., 1003 Spruce
Jeffries, Joshua C., Mutual Life bldg
*Johnson, Lindley, Harrison bldg
Johnson, Philip H., Land Title bldg
Karcher, W. T. & Livingston Smith, Crozer
Keen, C. Barton, 1218 Chestnut bldg
Keisker, F. H., Perry bldg
Kelsey, Albert, Weightman bldg
Kennard, Fred'k H., Witherspoon bldg
*King, Guy, 1513 Walnut
Kley, Percy A., 1535 Chestnut
Koelle, Speth & Co., 2601 Oxford
Koenig, Franz C., 4912 Parkside av
Kuhn, Peter, 3058 N 8th
Lacey, Adin Benedict, 1012 Walnut
Lalor, James D., Hale bldg
Lee & Clark, 524 Walnut

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Letzgus, Anton A., Jr., Bailey bldg
Loos, Richard C., 1017 Chestnut
*Lovatt, George I., 420 Walnut
Lueders, Chas. W., 475 N 4th
McGoodwin, Robt. R., 34 S 16th
McIlvain & Roberts, Land Title bldg
McIlvaine, J. Gilbert, 1003 Spruce
*Macomb, Henry A., 717 Walnut
Magaziner & Potter, 137 S 5th
Martin & Dubring, 1129 Walnut
*Mason, Geo. C., Perry bldg
Medary, Milton B., Jr., 1414 S Penn sq
Medoff, Barnet J., 518 Spruce
Mellor & Meigs, Lafayette bldg
Merkle, George, 509 Cumberland
Miller, Herman, Crozer bldg
Milligan & Webber, 520 Walnut
Mills & Vankirk, Harrison bldg
Morris & Erskine, Crozer bldg
*Moses, Arnold H., 136 S 8th
Naschold, Jacob, 723 Walnut
Newhall, Geo. M. Engineering Co. (Ltd.), 136 S 4th
Oeischlager, Chas. E., Harrison bldg
Ott, Edgar F., Bailey bldg
Pacey, Robert, 1929 Rowan
Page, Geo. B., Harrison bldg
Parker, Chas. S., 1227 Hilton
Parry, Oliver R., 1723 Chestnut
Paul, O., 220 S 4th
*Pearson, George T., 427 Walnut
Peddle, Chas. R., 136 S 4th
Perot, Robeson Lea, 26 S 17th
Peuckert & Wunder, 310 Chestnut
Phillips, Watson K., 430 Walnut
Pierson, Alfred B., 427 Walnut
*Plack, W. L., 1208 Chestnut
Plowman, Rush A., Witherspoon bldg
Price, Walter F., 714 Walnut
Price & McLanahan, 1529 Walnut
*Prichett, Wm. C., 416 Walnut
Rahn, C. E., 410 Walnut
Rankin, Kellogg & Crane, 1012 Walnut
Rehfuss, Geo. U., Weightman bldg
Reinhold, Henry L., Jr., 10th & Sansom
Roberts, Spencer, Weightman bldg
Rommel, Frank A., Weightman bldg
Rush, Louis H., 1001 Chestnut
Sansom, E. M., 518 Walnut
Sauer & Hahn, 1112 Chestnut
Savage, Geo. E., Witherspoon bldg
*Savery, Scheetz & Savery, Stephen Girard bldg
*Schemerhorn, Clarence E., 430 Walnut
Seeburger, Frank, Penna bldg
*Seeler, Edgar V., Real Estate Trust Co. bldg
Scherr, Louis V., Weightman bldg
*Sellers, Horace W., Stephen Girard bldg
Sharpley, W. W., Stephen Girard bldg
Shepard, Wm. V. K., Witherspoon bldg
*Shirk, J. C. M., 421 Chestnut
Simon & Bassett, 1112 Chestnut
*Smedley, Walter, Stephen Girard bldg
Smith, W. Frisbey, 1315 Arch
*Stearns & Castor, Stephen Girard bldg
Stevens, Benj. R., 1737 Filbert
Stuckert, J. Franklin, 112 E 43d
Stuckert & Sloan, Crozer bldg
Thomas, Churchman & Molitor, 1309 Walnut
Trout, H. Clifton, Stephen Girard bldg
Trumbauer, Horace, Land Title bldg
Trumbower, Werner, Crozer bldg
Van Hook, Geo. M., 411 Walnut
Vasquez, Romulo L., 7941 Frankford av
Walton, W. McKee, 714 Walnut
Ward, Alfred L., Stephen Girard bldg
Ward, Henry B., Witherspoon bldg
Watson & Huckel, 1211 Walnut
Watts, J. Murray, 328 Chestnut
Weingartner, Walter W., Perry bldg
Westover, Albert E., 1616 Chestnut
Wetherell, Herbert J., 328 Chestnut
White, Ralph E., Penna bldg
Wilson, C. Henry, 1130 Lombard
Wilson, E. Allen, 1208 Chestnut
*Wilson, Harris & Richards, Drexel bldg
Windrim, Jno. T., Commonwealth bldg
Wise, Herbert C., 34 S 16th
Wolf, Otto C., Denckla bldg
Wright, Harry, 3217 Sansom
Yeo, Edwin A., Stephen Girard bldg
Zantzinger & Borie, 139 S 15th
Zimmerman, Harry, 4643 Penn, Frankford

PHOENIXVILLE—Lowery, Irvin

PITTSBURG—Alden & Harlow, Farmers' Bank bldg
Blair, Harry S., Westinghouse bldg
Bartberger, Chas. M. & Son, 200 9th
Beatty, John L., 146 6th
*Bickel, Chas., May bldg
Bier, Chas. W., 219 6th
Billquist, 341 6th av
*Boyd & Stewart, Century bldg
Brosie, Louis O., 6200 Penn av
Bruening, Max, 5941 Baum
Burnham, D. H. & Co., Oliver bldg
Campbell, Jas. N. Co., Penn bldg
Carlisle, Edw. J., Ferguson bldg
Clepper & Moffitt, 108 Smithfield
Comes, John T., 1005 5th av
Comstock, C. B., Herrs Island
Cornelius, T. Ed., Ferguson blk
Crocker, Hy. I., 6024 Penn av
Crosby-Ferman Co., 1411 5th av
Crone, Daniel A., 7 Wood
Dean & Stophlet, 331 4th av
De Arment, Frank H., Fulton bldg
Denick, E. V., House bldg
Dudgeon & Son, 900 Wood
Dyche, D. A., 5803 Kirkwood
Elliott, J. B., Publication bldg
Emanuel, Jas. G., 407 4th av
Estep, Harry S., 209 9th
Felket, Frank, 413 4th av
*Gilchrist, H. D., Frick bldg
Hall, S. A., House bldg
Hannah, Thos., Keenan bldg
Harry, J. W., 318 Brownsville av
Heckert, Sidney F., Stevenson bldg
Heron, Thos. J., 209 9th
Hodgdon, C. W., Penn bldg
Hodgdon, Geo. & Son, 333 4th av
Irwin, Paul W., 209 9th
Keirn, J. Edw., 3945 Brighton Rd, N C
Janssen & Abbott, 9th & Liberty av
Kauffman, William, Lewis blk
Kiehnel & Elliott, 209 9th
Kropff, Henry M., Renshaw bldg
Kuntz, Jos. F., Westinghouse bldg
Lang, F. B., House blk
Lee, Edw. B., Berger bldg
Liesch, Pierre A., Aspinwall
Link, A. F., 407 N Craig
Lloyd Bros., Lewis blk
Lohman, H. J., 502 5th av
Long, John J. A., 223 4th av
MacClure & Spahr, Keystone bldg
McCollum & Dowler, Berger bldg
McKee, T. C., Arrott bldg
McMaster, Andrew, Curry bldg
McMaster, Jennie K., Penn bldg
Marsteller, S. A., 215 Wood
Mazer, Jacob, Bakewell bldg
Mentel, C. G., 422 Federal, N S
Miller, A. K., Penn bldg
Miller, D. Knox, 237 4th av
Milligan & Miller, Franklin
Milliken, J. A., Sprague & Oakdeane
Mills, H. E., House bldg
Neal, Joseph L., 215 4th av
Nirdlinger, Max, Diamond Bank bldg
*Orth, Geo. S. & Bros., 341 6th av
Osterling, F. J., 316 4th
Palmer & Hornbostel, Forbes bldg
Peoples, U. J., Magee bldg
Prack, Bernard H., Berger bldg
Richarad, S. C. & Co., 430 Liberty
Rieger, Chas. J., 307 4th av
Rutan & Russell, Magee bldg
Sauer, F. C., 804 Penn av
Scheibler, F. G., Jr., Carl bldg
Schellentrager, E. J., Fulton bldg
Schwan, Geo. H., 323 4th av
Scott, T. H., 223 4th av
Shaw, Wm. J., Century blk
Simpson, D. & Co., Wabash bldg
Sims, Wm. H., 5415 Black
Snaman, Wm. E., Empire bldg
Snyder & Evans, Empire bldg
Steen, James T., Fulton blk
Stevens, Louis, 238 4th av
Stolte, Fred'k H., Park bldg
Stotz, Edward, 213 6th av
Stowe, Wm. C., Arrott bldg
Strong, Carlton, 265 Dithridge
Struthers, W. F., 209 9th
Thomas, W. A., Park bldg
Topp, O. M., Jenkins bldg
Trimble, R. Maurice, Ferguson bldg
Vandevort, R. G., 424 Federal
Vrydaugh & Wolfe, 347 5th av
Wolfe, T. B., Perrysville av
Wyss-Thalman, Vincent, Wabash bldg
Zortman, Wm. N. N., 238 4th av

POTTSVILLE—Hill, Wm. D.
Mould, C. T.
Reilly, Frank X.

READING—Brown, D. F., 50 N 11th
Fink, W. A., 426 Franklin
Gerhard, G. L., 619 Penn
Heckman, H. R. & Co., Baer bldg
Mauer, Harry, 529 Court
Muhlenberg Bros., 513 Penn
Scholl, Edw. Z., 529 Court
Smith, Alexander F., 529 Court
Steller & Mengel, Penn av & Wymsg
Young, Calvin J., 120 W Oley

ROCHESTER—Earl Bros.

ROYERSFORD—Poley, Vincent R.

SCRANTON—Baker, James A., Auditorium bldg
Blackwood & Nelson, 424 Lackawanna av
Brown, Fred'k L., Real Est Exch bldg
Davey & Crowther, Coal Ex. bldg
Davis, Edw. H., Connell bldg
Duckworth, Jno. A., 44 Coal Ex. bldg
Edson, Gilbert N., Connell bldg
Hancock, Lewis, Jr., Coal Ex bldg
Hartman, I. Albert, Peoples Nat Bk bldg
Hess, Charles, 534 Adams av
Keech, C. C., 821 Quincy av
Lacey, B. T., Connell bldg
Langley, Edw., Connell bldg
Miller, F. J., Peoples' Nat Bk bldg
Morris, Percival J., Burr bldg
Riedmiller, Otto J., 715 Cedar av
Reisman, L., Dime Bank bldg
Rutherford, Herman C., Pauli bldg
Snyder & War, Real Estate Exch bldg
Weinechenk, Arthur A., 534 Adams av

SHAMOKIN—Bitterman, L. M.
Lee, W. H.

SHARON—Clepper, E. E.

SHERIDANVILLE—Williams, Chas. E.

SLATINGTON—Oplinger, G. T.

SOUTH BETHLEHEM—Leh, A. W.
Wilt, J. R.

SWISSVALE—Milligan, Chas. W.

TARENTUM—Cutshall, Ira F.
Kauzor, Jno. E.

TYRONE—Waring, Frank R.

UNIONTOWN—Altman, Harry W.
Cooper, A. P.
Fulton, J. C.
Harmon, J. H.
Jamison, W. O.

WARREN—Gruninger, F. H.
Phillips, E. A.

WASHINGTON—Hall, Samuel W.
McCollum, J. M.
Vester, J. W.

WAYNE—Gugert, Francis A.
Shaw, J. William

WAYNESBORO—Woltz, Jas. W.

WAYNESBURG—Fuller, Fred K.

WILKES-BARRE—Kleemann, Otto A., 23 S Main
Knapp, Bosworth, 15 S Franklin
McCormack & French, 2nd Nat'l Bank bldg
McGlynn, Owen, Simon Long bldg
Maier, Henry A., Coal Exch bldg
Myers, Frederick M., Welles bldg
*Olds & Puckey, Coal Exch. bldg
Pettebone & Ireland, 2d Nat. Bank bldg
Podmore, Thos., Bennett bldg
Reilly & Schroeder, Bennett bldg
Welsh, Sturdevant & Poggi, Coal Ex bldg

WILKINSBURG—†Dudgeon, A. & Son, 202 Wood
Milligan, Chas. W., Carl bldg
Milligan & Miller, Franklin st
Scheibler, F. G., Jr., 700 Wood

WILLIAMSPORT—Fisher, Mahlon L., Jamison
Litzleman, T. J., 4th & Laurel
Reitmeyer, T. P., 360 Market
Ritter, Stetler, 17 W Market sq

WYOMISSING—Lance, L. D.
Stetler & Mengel

YORK—*Dempwolf, J. A.
Hamme & Leber
Keyworth, C. A.
McClymont, Jas. H.
Stair, Robert A.
*Willis, B. F.

## RHODE ISLAND.

CENTRAL FALLS—Desvoyunx, Helia L.

CRANSTON—Trice, Anthony F.

NARRAGANSETT PIER—Kent, Willard

NEWPORT—Easton, Roland J.
Johnston, John D.
Smith, Jas.
Stevens, Joseph G.

PAWTUCKET—Humes, Albert H.
Monahan, R. C. N.
Page, George H.
Seabury, Dwight (Mill Arch. & Engr.)

PROVIDENCE—Adams, J. Howard, 49 Westminster
Almy, Arthur Lewis, 19 College
Angell & Swift, 87 Weybosset
Baker, Benj. C., Banigan bldg
Banning & Thornton, 87 Weybosset
Cady, Jno. Hutchins, Banigan bldg
*Clarke, Howe & Homer, 72 Weybosset
Gaucher, Eugene J., 72 Weybosset
Goodwin, E. S., 42 Westminster

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Gould & Hall, 146 Westminster
Hill, Arthur E., 75 Westminster
*Hoppin & Field, 32 Westminster
*Isham, N. M., Banigan bldg
Jackson & Robertson, 75 Westminster
Langworthy, Leslie P., 37 Weybosset
Makepeace, C. R. & Co., 429 Butler Ex.
Martin, B. S. D., 86 Weybosset
Martin & Hall, Union Trust bldg
Medbury, Vinton W., 20 Market sq
Murphy, Hindle & Wright, 146 Westminster
O'Malley, Jno. F., 75 Westminster
Page & Page, 87 Weybosset
Phillips, Lemuel O., 15 Camden av
Shaw, Jas., Jr., 17 Arlington av
Shurrocks, A. F., Wilcox bldg
Slocomb, Harry A., 20 Market sq
*Stone, Carpenter & Sheldon, 49 Westminster
Thornton & Thornton, 152 Weybosset st
Walker, Wm. R. & Son, 17 Custom House
Woods, Frank W., 202 Union st
WOONSOCKET—Fontaine, Walter F.
Kent, Willard

## SOUTH CAROLINA.

AIKEN—Laird, John
ANDERSON—Casey, Jos. Huntley
Sayre & Baldwin
CAMDEN—Fort, O. M.
Mitcham, R. W.
CHARLESTON—Barbot, D. C.
Newcomer, John D.
Todd & Benson
Walker & Burden
COLUMBIA—Hamby, Arthur W.
Sams, J. H.
Shand & Lafaye
Urquhart, J. B.
Voigtlander, Fritz
Wilson & Sompayrac
GREENVILLE—Cunningham, F. H. & J. G.
Edens, A. W.
Jones, J. O.
Lawrence, J. R.
Lockwood, Greene & Co. (Architects & Engrs. for Industrial Plants)
Sirrine, J. E. (Mill Architect & Engr.)
GREENWOOD—Cothran & Cothran
ORANGEBURG—Johannsen, Henry H.
ROCK HILL—Walker, N. Gaillard
SPARTANBURG—Howe, W. B. W.
Proffitt & McNeil
SUMTER—Dunne, E. J. & W. K.
Johnson, J. H.

## SOUTH DAKOTA.

ABERDEEN—Ellerbe & Round
Fossum, G. F.
Henry, J. W.
Van Ess, John K.
DEADWOOD—Jewell, O. C.
HURON—Dakota Architectural Co.
Issenhuth, Geo.
Kuehn, F. C. W.
MITCHELL—Hoppe, J. P.
PIERRE—Hoover, Wm.
RAPID CITY—Holmes, Zachariah
SIOUX FALLS—Chapman, Jno. C.
Dow, W. L. & Son
Schwarz, Jos.
VERMILLION—McDaniel & Trimmer
WATERTOWN—Hockman, Maurice Allen
Shoultz, A. H.

## TENNESSEE.

ALEXANDRIA—Richards, J. L.
BRISTOL—Burnett, George W.
Doriot, Henri
Perber & Kearfoot
CHATTANOOGA—Adams & Alsup, James bldg
Barnwell, John G., 714 Georgia av
Bearden, Chas. E., Chamberlain bldg
Brown, Chas. H., 203 McClung av H P
Hunt, R. H., James bldg
Huntington & Sears, James bldg
Lamson, E. Lee, 726 Market
Patton, R. B. & Son, Times bldg
Stroop, D. V., James bldg
CLARKSVILLE—Ritter, H. W. & Co.
Smith, F. L. & Sons
FRANKLIN—Williams, G.
GALLATIN—Simpson, S. R. & Sons
JACKSON—Heavner, U. R. Son & Co.
KNOXVILLE—Barber, Geo. F. & Co.
*Bauman Bros.
Graf & Sons
Gredig, A. E.
Parmelee, M. E.
Waters, Lewis G.
MEMPHIS—Alsup, B. C. & Co., Randolph bldg
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Hubbell & Greene, N Texas bldg
Lang & Witchell, Wilson bldg
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Overbeck, H. A., Juanita bldg
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Thomson & Harrison, Wilson bldg
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Terrien, Alex.
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Linthicum, Hill C., Am. Nat'l Bank bldg
Noland & Baskerville, Travelers' Ins. bldg
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Porter, Lew F.
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Leiser & Holst, Germania bldg
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Ringer, C. F. & Son, 106 Mason
Rische, Chas. H., 2227 Grand av
Roth, John, Jr., Patton bldg
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Russel, Howland, Hathaway bldg
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Schnetzky & Son, 1320 Cedar
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Schutz, Theo. F., 296 W Water
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Van Ryn & De Gelleke, Caswell blk
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Wade, C. G., 499 B'way
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Wolff & Ewens, 437 E Water

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Lindsay, F. L.
Waters, William
PLATTVILLE—Kleinhammer, H.
PORTAGE—Williams, C. H.
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Davis, David R., 622 State
Guilbert & Funston, Robinson bldg
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RIPON—Radway, Marcus C.
SHEBOYGAN—Hilpertshauser, Charles
†Weeks, William C.
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STURGEON BAY—Crandall, F. D.
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Wirth, Carl
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Riebe, Otto C.
Willenbockel, L. A.
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WAUSAU—†Gritzmacher, Carl A.
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Julien, J. P.
Matthews, John S.
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Dornfeld, J. F., 134 Van Buren, Chicago, Ill.
Englehardt, Theodore, 905 B'way, Brooklyn, N. Y.
Frank, Joseph, Erie, Pa.
Gatterdam, Fred E., 163 Randolph, Chicago, Ill.
Griesser, Richard, Schiller bldg, Chicago, Ill.
Hettinger, Carl F. & Co., Boston, Mass.
Hooper & Co., Newark, N. J.
Kastner & Dell, 1133 B'way, New York
Knoth, Jno. V., **Bessemer bldg, Pittsburg, Pa.**
Koehler, V. Hugo, 489 5th av, New York
Lehle, Louis, 103 Randolph, **Chicago, Ill.**
Mueller, Gustave A., Detroit, Mich.
Peuckert, Kurt W., 310 Chestnut, Phila., Pa.
**Stanley, Frank, 711 Av E, Brooklyn, N. Y.**
Widmann & Walsh, St. Louis, Mo.
Wolf, Otto C., Denckla bldg., **Phila., Pa.**
**Wunder, Fred'k & Son, 957 B'way, Brooklyn, N. Y.**

## 151—Architects (Decorative)

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**Hiss, Philip, 1123 B'way, New York**
Hubbell, C. E. Co., 103 Park av, New York
Kissam, Henry Snyder, 37 Liberty, New York
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Parkhurst Bros., 156 5th av, New York **Pa.**
Poole, Thomas H., 13 W 30th, New York
Righter & Kolb, 156 5th av, New York
**Tillinghast, Mary E., 3 Wash'n sq, N, New York**

## 152—Architects (Horticultural)

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Hitchings & Co., 1170 B'way, New York
Lord & Burnham Co., 1133 B'way, New York, & 819 Tremont bldg, Boston, Mass.
Payne, J. A., 260 Culver av, Jersey City, N. J.
Pierson U Bar Co., 1 Madison av, New York
Thomson, Robert & Co., 6200 Prescott, St. Louis, Mo.
Van Assche, F., 150 Fulton av, Jersey City, N. J.
Weathered Co., Orient & West End avs, Jersey City, N. J.

## 153—Architects (Landscape)

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**Armstrong, E. Maitland, 113 B'way, New York**
Arnold & Punchard, 6 Beacon, Boston, Mass.
Barry, Jno. M., 552 Tremont, Boston, Mass.
**Bochman, E., Westinghouse bldg, Pittsburg, Pa.**
**Borst, Theo. F., Tremont bldg, Boston, Mass.**
**Bowditch, Ernest W., 60 Devonshire, Boston, Mass.**
**Bowditen, Jas. H., Tremont bldg, Boston, Mass.**
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**Brett & Hall, 31 Beacon, Boston, Mass.**
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Brindley & Holbrook, 156 5th av, New York, & Morristown, N. J.
Buckenham & Miller, 346 B'way, New York
Bullard, Miss Elizabeth, 472 Park pl, Elizabeth, N. J.
Burley, Jas. L., 29 B'way, New York
**Burr, Henry E., Orange, N. J.**
**Caparn, Harold A., 156 5th av, New York**
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Colton, Reuben, 915 Boylston, Boston, **Mass.**
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**Gallagher, Percival, 2a Park, Boston, Mass.**
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Silsbee, Walter E., 44 Central sq, Lynn, **Mass**
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Young, Jos. H., Perry bldg., Phila., Pa. Ill.

## Architects (Mill)

(See Engineers, Mill)

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Binney, Arthur, 70 Kilby, Boston, Mass.
Boardman, Edwin A., 20 Central, **Boston, Mass.**
Burbank, Ralph N., 70 Long wharf, Boston, Mass.
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Crowninshield, B. B., 70 Long Wharf, Boston, Mass.
Dickie, G. W., 24 Cal, San Francisco, Cal.
Dickie, D. W. & R. Z., 112 Market, San Francisco, Cal.
**Donnelley, Wm. T., 135 B'way, New York**
Dunbar, Stuart B., 95 Market, Phila., Pa.
Dyer, J. H., 14 Locust, Portland, Me.
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Hanson, Bant, Bath, Me.
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Mower, Chas. D., 29 B'way, New York
Nock, F. S., **East Greenwich, R. I.**
Paterson, Jas. V., Pier 14 (Old), N. R., **New**
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**Wintringham & Wells, 32 B'way, New York**
**Wood, W. J., Postal Telegraph bldg, Chicago, Ill.**

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(See also Engineers, Mill)

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Eaton & Brownell, Watertown, N. Y.
Ellsworth & Howes, Holyoke, Mass.
Du Mazuel, E. G. F., 11 Pine, New York
Kimball, Herbert S., 46 Cornhill, Boston, Mass.
Makepeace, C. R. & Co., 429 Butler Ex, Providence, R. I.
Newhall, Geo. M. Engineering Co. (Ltd.), 136 S 4th, Phila., Pa., & 43 Cedar, New York
O'Keefe & Orbison Engineering & Consulting Co., Appleton, Wis.
Snow & Humphreys, 85 Water, Boston, Mass.
Wallace, Jos. H. & Co., 5 Beekman, New York

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**Kimball, Francis H., 71 B'way, New York**
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Deane, E. Eldon, 6 W 28th, New York
Gregg, D. A., 8 Beacon, Boston, Mass.
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Utica Armature Works, Utica, N. Y.
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Vote-Berger Co. (For Telephone & Telegraph), La Crosse, Wis.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Western Telephone Mfg. Co. ("H-C-D," for Telephone & Telegraph), 219 S Clinton, Chicago, Ill.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (For Light & Power), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 164—Arresters (Spark, Electric)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**Brady, T. H. (Electric Lamp), New Britain, Conn.**
**Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.**
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index end of book)
McLeod, Ward & Co., 27 Thames, New York
Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.
**South Bend Spark Arrester Co., South Bend, Ind.**
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 165—Arresters (Spark, Locomotive, Traction Engine, Etc.)

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Casey-Hedges Co., Chattanooga, Tenn.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end
Hendrick Mfg. Co., Carbondale, Pa. of book)
Howell, R. R. & Co., Minneapolis, Minn.
**MacKINNON BOILER & MACHINE Co., Bay City, Mich.** (See adv. index, end of book)
Parsons Engineering Co. Equitable bldg, Wilmington, Del.
Pope, E. M., Watertown, S. D.
Port Huron Engine & Thresher Co., Port Huron.
Sly, W. W. Mfg. Co., Cleveland, O. Mich.
**SMITH, F. P. WIRE & IRON WORKS.** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
South Bend Spark Arrester Co., South Bend, Ind.
**TYLER, W. S. CO., Cleveland, O. (See** adv. index & branch offices, end of book)
Westinghouse Co., Schenectady, N. Y.
**WRIGHT WIRE CO. (Locomotive),** Worcester, Mass. (See adv. index & branch offices, end of book)

## 166— Arseniate

Grasselli Chemical Co. (Of Lead), The Arcade, Cleveland, O., & 60 Wall, New York
Penna. Salt Mfg. Co. (Soda), 115 Chestnut, Philadelphia, Pa.
Shaw, Jno. & Co. (Soda), Boston, Mass

## 167— Arsenic

Atkins, Kroll & Co., San Francisco, Cal.
Beer, Sondheimer & Co., 42 B'way, New York
**Binney & Smith Co.,** 81 Fulton, New York
**Bischoff, C. & Co.,** 451 Washington, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Fuerst Bros. & Co., 2 Stone, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O., & 100 William, New York
Hill's, Edw. Son & Co., 71 Pine, New York
Lehn & Fink (Metallic), 120 William, New York
Mallinckrodt Chemical Works, St. Louis, Mo
McKesson & Robbins, 91 Fulton, New York
**Tennant, C. Sons & Co.,** 76 William, New York

## Art Metal Work

(See **Grilles, Brass & Bronze; also Grilles,** Wrought Iron)

## 168— Asbestine

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
International Pulp Co., 41 Park row, New York
Whittaker, W. H., 245 Front, New York
Williams, C. K. & Co. ("Anchor Brand"), Easton, Pa.

## 169—Asbestos Building Lumber

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
Asbestos Wood Co. (For Building Construction Sheets, Sheathing, Roofing, Siding, Electrical Purposes, etc.), Nashua, N. H.
Carey, Philip Mfg. Co., Lockland, O.
**JOHNS, H. W.-MANVILLE CO. ("J-M." "Transite"),** 100 William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.

## Asbestos Cloth

(See Asbestos Textiles)

## Asbestos Cooking Utensils

(See Asbestos Household Articles; also Asbestos Textiles)

## 170—Asbestos Corrugated Sheathing (Reinforced)

Asbestos Shingle, Slate & Sheathing Co. (With Woven Wire), Ambler, Pa.
**HYNDMAN ROOFING CO., 318 E 2d,** Cincinnati, O. (See adv. index, end of book)

## Asbestos Coverings

(See Pipe & Boiler Coverings, Asbestos)

## Asbestos Felting Mfrs.

(See Asbestos Miners)

## 171— Asbestos Felting Mfrs.

Carey, Philip Mfg. Co., Lockland, O.
Charet Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
Franklin Mfg. Co., Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
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## 172—Asbestos Gloves & Mitts

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## 174—Asbestos Listing or Tape

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Keasbey & Mattison Co., Ambler, Pa.

## 175— Asbestos Material

**AMERICAN ASBESTOS CO., Norristown, Pa.** (See adv. index, end of book)
**Asbestos Fibre Spinning Co., North Wales, Pa.**
**Carey, Philip Mfg. Co., Lockland, O.**
Chicago Fire Proof Covering Co., 27 Michigan av, Chicago, Ill.
**Ehret Magnesia Mfg. Co., Land Title bldg. Phila., Pa. Works, Valley Forge, Pa.**
**Franklin Mfg. Co., Franklin, Pa.**
Gilmour, R. M. Mfg. Co., 105 John, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
New York Asbestos Mfg. Co., 80 John, New York
Oil City Asbestos Co., Oil City, Pa.
Sall Mountain Asbestos Mfg. Co., 234 La Salle, Chicago, Ill.
Trainer, C. W. Mfg. Co., Boston, Mass.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 176— Asbestos Metallic Cloth

**AMERICAN ASBESTOS CO., Norristown, Pa.** (See adv. index, end of book)
**Asbestos Fibre Spinning Co., North Wales, Pa.**
Carey, Philip Mfg. Co., Lockland, O.
Chalmon Asbestos & Rubber Works of America, 102 Reade, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
U. S. Asbestos Co., Manheim, Pa.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 177— Asbestos Miners

**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.
Martin, R. H., 220 B'way, New York
Sall Mountain Asbestos Mfg. Co. (Fibre), 234 Lasalle, Chicago, Ill.

## 178—Asbestos Paper & Mill Board Mfrs.

Acme Asbestos Covering & Supply Co., 1840 Austin av, Chicago, Ill.
**Carey, Philip Mfg. Co., Lockland, O.**
**Ehret Magnesia Mfg. Co., Land Title bldg. Phila., Pa. Works, Valley Forge, Pa.**
**Franklin Mfg. Co., Franklin, Pa.**
**Gilmour, R. M. Mfg. Co., 105 John, New York**
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
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New Jersey Asbestos Co., Camden, N. J.
New York Asbestos Mfg. Co., 80 John, New York
Norristown Magnesia & Asbestos Co., Norristown, Pa.
Oil City Asbestos Co., Oil City, Pa.
United States Asbestos Co., Manheim, Pa.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 179—Asbestos Protected Metal

Asbestos Protected Metal Co. (Corrugated & Flat for Roofing, Siding & Ceilings), Canton, Mass.
**HYNDMAN ROOFING CO., 318 E. 2d.** Cincinnati, O. (See adv. index, end of book)

## Asbestos Roofing

(See Roofing, Asbestos)

## Asbestos Rope, Cord & Twine

(See Asbestos Textiles)

## 180—Asbestos Table Padding

**Asbestos Fibre Spinning Co. ("Huber"), North Wales, Pa.**
Carey, Philip Mfg. Co., Lockland, O.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)

## 181— Asbestos Textiles

**AMERICAN ASBESTOS CO., (Cloth,** Yarns, Cords, Tapes, etc.), Norristown, Pa. (See adv. index, end of book)
**Asbestos Fibre Spinning Co., North Wales, Pa.**
Carey, Philip Mfg. Co., Lockland, O.
Chalmon Asbestos & Rubber Works Co. of America (Yarns, Cloth, etc.), 102 Reade, New York
General Asbestos & Rubber Co., Charleston, S. C.
**JOHNS, H. W.-MANVILLE CO. ("J-M"),** 100 William, New York. (See adv. index & branch offices, end of book)
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New Jersey Asbestos Co., Camden, N. J.
United States Asbestos Co., Manheim, Pa.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## Asbestos Yarns

(See Asbestos Textiles)

## 182—Ash Chutes (Steel Plate)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**Edwards, T. & Co., Holyoke, Mass.**
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
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(See Conveyors, Coal & Ash Handling; also Coal & Ore Handling Machinery)

## 183— Asphalt (Artificial)

Byerley & Sons ("Byerlyte"), Cleveland, O.


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**Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.**
**Barrett Mfg. Co., Land Title bldg, Phila., Pa.**
Dunderberg Asphalt Co., 6 Fletcher, New York
**Gabriel & Schall, 205 Pearl, New York**
Lamson, Jno. S. & Bro., 84 William, New York
**Neuchatel Asphalte Co. (Ltd.), 265 B'way, New York**
Saacke, Chas. W., 76 William, New York
Scheel, Wm. H., 159 Maiden la, New York
Schillinger Bros. Co., Toledo, O.
Sicilian Asphalt Paving Co., 41 Park row, New
Texas Co., 17 Battery pl, New York York
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Uvalde Asphalt Co., 1 B'way, New York, &
Warren Bros. Co., Boston, Mass. Cline, Tex.

## 185—Asphalt (Liquid & Solid)

**American Asphaltum & Rubber Co. ("Pioneer"), Harvester bldg, Chicago, Ill.**
**Densmore-Stabler Refining Co., Los Angeles, Cal.**
**DOGGETT, STANLEY, 101 Beekman, New York.** (See adv. index, end of book)
**Dunderberg Asphalt Co., 6 Fletcher, New York**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Globe Asphalt Co. ("Obispo" Brand), Pitts-
Gulf Refining Co., Pitsburg, Pa. burg, Pa.
**Hercules Oil Refining Co., Los Angeles, Cal.**
Indian Refining Co. (Liquid for Roads), 123 William, New York
Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.
**Southern Refining Co., Los Angeles, Cal.**
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
**Union Oil Co. of Cal. ("The Diamond" Brand), Los Angeles, Cal.**

## 186— Asphalt Mastic

**American Asphaltum & Rubber Co. ("Pioneer"), Harvester bldg. Chicago. Ill.**
Blome, R. S. Co., Unity bldg, Chicago, Ill.
Gabriel & Schall ("Brunswick" Imported), 205 Pearl, New York
Neuchatel Asphalte Co., 265 B'way, New York
Shields, W. S. P. Co., Witherspoon bldg. Phila., Pa.
**Standard Asphalt & Rubber Co. ("Sarco," "Matrix") 205 La Salle, Chicago. Ill.**
Wadsworth Stone & Paving Co. ("Standard"), Pittsburg, Pa.
Warren Chemical & Mfg. Co., 17 Battery pl, New York

## 187—Asphalt Miners & Refiners

American Asphaltum & Rubber Co. ("Pioneer"). Women's Harvester bldg, Chicago, Ill.
**Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.**
Barber, A. L. Asphalt Co. (Natural Asphalt), 90 West, New York
Barrett Mfg. Co.. Land Title bldg, Phila., Pa.
California-Fresno Oil Co., Fresno, Cal.
**Densmore-Stabler Refining Co., Los Angeles, Cal.**
Dunderberg Asphalt Co., 6 Fletcher, New York
**Globe Asphalt Co. ("Obispo" Brand), Pittsburg.**
Gulf Refining Co., Pittsburg, Pa. Pa.
**Hercules Oil Refining Co., Los Angeles, Cal.**
Impervious Products Co. ("Fairfield," "Sea Wall"), 213 St. Paul, Baltimore, Md.
Indian Refining Co., 123 William, New York
National Oil Refining & Mfg. Co., Bakersfield, Cal.
Sicilian Asphalt Paving Co., 41 Park row, New
**Southern Refining Co., Los Angeles, Cal.** York
Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.
Texas Co., 17 Battery pl., New York
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Union Oil Co. (of California), Los Angeles, Cal.
Uvalde Asphalt Co., 1 B'way, New York
**Warner-Quinlan Asphalt Co., Syracuse, N. Y., & 79 Wall, New York**

## 188— Asphalt Mixers

(See also Concrete Mixers; also Mixers, Mortar)

Coldwell-Wilcox Co., Newburgh, N. Y.
Drake Standard Machine Works, 1025 W Jackson boul, Chicago, Ill.
East Iron & Machine Co., Lima, O.
**Equitable Asphalt Maintenance Co. ("Blake & Lutz"), Kansas City, Mo.**
**Erie Machine Shops, Erie, Pa.**
Hetherington & Berner Co., Indianapolis, Ind.
Iroquois Iron Works, Buffalo, N. Y.
Densmore-Stabler Refg. Co., Los Angeles, Cal
Pioneer Iron Wks., 149 Pioneer, B'klyn, N. Y
Universal Road Machinery Co., Kingston, N. Y.

## 189— Asphalt Pipe Dip

American Asphaltum & Rubber Co., Harvester bldg, Chicago, Ill.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
**Dunderberg Asphalt Co., 6 Fletcher, New York**
Globe Asphalt Co., Pittsburg, Pa.
Hercules Oil Refining Co., Los Angeles, Cal.
Indian Refining Co., 123 William, New York
Southern Refining Co., Los Angeles, Cal.
**Standard Asphalt & Rubber Co. ("Sarco") 205 La Salle, Chicago, Ill**
Union Oil Co. (of California), Los Angeles, Cal.

## 190— Asphalt Plant Builders

Atlas Dryer Co., Cleveland, O.
**CUMMER, F. D. & SON CO. (Stationary & Portable),** The Arcade, Cleveland, O. (See adv. index, end of book)
East Iron & Machine Co. (Portable & All On One-Car), Lima, O.
Hetherington & Berner Co., Indianapolis, Ind.
Iroquois Iron Works (Portable & Railway), Buffalo, N. Y
Universal Road Machinery Co. (Portable & Stationary), Kingston, N. Y.
Warren Asphalt Paving Co. (Municipal Plants a Specialty), Boston, Mass.

## Asphalt Rollers (Steam)

(See Rollers, Steam Road)

## 191—Asphaltum Mfrs. & Importers

Chesapeake Oil Co., Baltimore, Md.
Dunderberg Asphalt Co., 6 Fletcher, New York
**Gulf Refining Co. (Oil for Fluxing), Frick bldg, Pittsburg, Pa.; Refinery, Port Arthur, Tex.**
Indian Refining Co., 123 William, New York
**King Refining Co., San Francisco, Cal.**
Lamson, Jno. S. & Bro., 84 William, New York
**National Oil Refining & Mfg. Co., Bakersfield, Cal.**
**Saacke, Charles W., 76 William, New York**
Schillinger Bros. Co., Toledo, O.
**Sicilian Asphalt Paving Co., 41 Park row, New**
**Texas Co., 17 Battery pl, New York York**
Trinidad Asphalt Mfg. Co., St. Louis, Mo.

## Assayers' Supplies

(See Chemical Apparatus)

## 192— Assayers & Chemists

Bettles, Mathez & Co., Salt Lake City, Utah
Burlingame, E. E. & Co., Denver, Colo.
Critchett & Ferguson, El Paso, Texas
Ely, Ethlebert, Dover. N. J.
Hanks, Abbott A., 630 Sacramento, San Francisco, Cal.
James, Geo A. Co., 28 Belden pl, San Francisco, Cal.
Kyle, T. D. & Co., Leadville. Colo.
Leonard & Root, Denver, Colo.
Officer, R. H. & Co., Salt Lake City, Utah
Pueblo Assay Office & Chemical Laboratory, Pueblo, Colo.
Tomlinson, W. Harold, 44 E Walnut la, Gtn., Phila., Pa.
Tucson Assaying & Engineering Co., Tucson,
Wood. Henry E. & Co., Denver, Colo. Ariz.

## 193— Atomizers (Billow)

De Vilbiss Mfg. Co. (For Fuel Oil Vaporation, etc.), Toledo. O.
National Supply Co. (For Fuel Oil Vaporation), 416 W Indiana, Chicago, Ill.

## 194— Atomizers (Spray)

Empire Cream Separator Co. ("Eclipse," Automatic, Hand), Bloomfield, N. J.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 195—Attachments (Automatic Drilling)

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Fifield Bros. (For Use on Bit Brace), Augusta, Me.
Lodge & Shipley Machine Tool Co. (Axle), Cincinnatti, O.
Luther Bros. Co. ("Luther's Ideal"), Milwaukee, Wis.
Millers Falls Co. ("Graves"), 28 Warren, New York
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E. Cleveland, O. (See adv. index & branch offices. end of book)
Niles-Bement-Pond Co., 111 B'way, New York
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Bryant Electric Co., Bridgeport, Conn.
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Plume & Atwood Mfg. Co., Waterbury, Conn.
Spencer's, I. S. Sons, Guilford, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Trumbull Electric Mfg. Co., Plainville, Conn.
Walsh, Owen Mfg. Co., 78 Barclay, New York

## 200—Attachments (Gear Cutting)

Young Machine & Tool Co. ("Young"), Worcester, Mass.

## 201— Attachments (Milling)

Barnes, W. F. & Jno. Co. ("Universal"), Rockford, Ill.
Bliss, E. C. Mfg. Co., Providence, R. I.
Mechanics Machine Co. (Screw Pulley), Rockford, Ill.

## 202—Attachments (Milling Machine)

Adams Co. ("Farwell"), Dubuque, Iowa
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Elgin Tool Works, Elgin, Ill.
Kempsmith Mfg. Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Oesterlein Machine Co., Cincinnati, O.
Owen Machine Tool Co. (Vertical Spindle, Rack Cutting, Circular Hand Feed, Circular Power Feed), Springfield, O.
Pratt & Whitney Co., Hartford, Conn.
Whitney Mfg. Co. (Vertical Universal), Hartford, Conn.

## 203—Attachments (Printing, for Meters)

Chicago Electric Meter Co., 400 S Hayne, Chicago, Ill.

## 204—Attachments (Reaping, for Mowers)

Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 205— Attemperators

Wolf, Fred W. Co., 827 Rees, Chicago, Ill.

## 206— Auger & Gimlet Mfrs.

Cooper, Edw. S., Seymour, Conn.
Deuse, J. S., Chester, Conn.
Drew, C. & Co. (Augers), Kingston, Mass.
Ford Auger Bit Co. (Augers & Bits), Holyoke, Mass.
Humphreysville Mfg. Co., Seymour, Conn.
Irwin Auger Bit Co. (Augers Only), Wilmington, O.
Jackson Mfg. Co., Jackson, O.
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Mack & Co. (Solid Cast Steel), Rochester, N. Y.
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New Haven Copper Co. (Cast Steel Augers), Seymour, Conn.
Ohio Tool Co. (Augers Only), Columbus, O.
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Rockford Bit Co. (Augers), Kokomo, Ind.
Slack, Timothy, Oxford, Pa.
Snell Mfg. Co., Fiskdale, Mass.
Southington Mfg. Co. (Augers Only), Southington, Conn.
Swan, James Co. ("Cook's" Augers, Gimlets, etc.), Seymour Conn.

## 207— Augers (Boring Machine)

Buckeye Mfg. Co., Anderson, Ind.
Chester Mfg. Co., Chester, Conn.
Fairmont Mining Machinery Co., Fairmont, W. Va.
Ford Auger Bit Co. ("Ford"), Holyoke. Mass.
Forest City Bit & Tool Co., Rockford, Ill.
Hardisty & Co., Harris & Penna R. R., Cincinnati, O.
Hubbard & Co., Murtland bldg, Pittsburg, Pa.
Irwin Auger Bit Co., Wilmington, Ohio
Jackson Mfg. Co., Jackson, Ohio
Jennings, C. E. & Co., 42 Murray, New York
Jennings-Russell Mfg. Co., Chester, Conn.
New Haven Copper Co., Seymour, Conn.
Ohio Tool Co. (Carpenters Only), Columbus, O.
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Slack, Timothy, Oxford, Pa.
Snell Mfg. Co., Fiskdale, Mass.
Southington Mfg. Co., Southington, Conn.
Swan, Jas. Co. ("Cook's." etc.), Seymour, Conn.
Wessman Tool Co., Rockford, Ill.

## Augers (Breast)

(See Augers, Miners')

## Augers (Bung)

(See Borers, Bung Hole)

## Augers (Carpenters')

(See Auger & Gimlet Manufacturers)

## Augers (Coal)

(See Augers, Miners')

## 208— Augers (Earth)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BLAKE SPECIALTY CO. (Water Pressure), 2412 3d av, Rock Island, Ill. (See adv. index, end of book)
Cook, A. D., Lawrenceburg, Ind.
Cook Well Co., 15 S 4th, St. Louis, Mo.
Easey Auger Co. ("Bowman's"), College Corner, O.
Eureka Fence Mfg. Co. ("The S. & B."), Richmond, Ind.
Gills, Jno. D. Sons (Mine), Phillipsburg, Pa.
Howell, R. R. & Co., Minneapolis, Minn.
Indiana Steel & Wire Co., Muncie, Ind.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Standard Earth Auger Co. ("Standard"), 1128 Newport av, Chicago, Ill.
Star Drilling Machine Co., Akron, O.
Western Steel & Iron Works (Inc.), De Pere, Wis.
Williams Bros., Ithaca, N. Y.

## 209—Augers (Electric Power)

Fairmont Mining Mach. Co., Fairmont, W. Va.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)

## 210—Augers (Flexible Pipe Cleaning)

Lewis, Samuel, 5 Front, New York

## 211— Augers (Hollow)

Bonney Vise & Tool Works (Inc.), Allentown, Pa.
Cincinnati Tool Co. ("Hargraves," Adjustable), Norwood, Cincinnati, O.
Millers Falls Co. (Adjustable), 28 Warren, New York; Works: Millers Falls, Mass.
Phoenix Hardware Mfg. Co. (Adjustable), Homer, N. Y.
Silver Mfg. Co., ("Star") Salem, O.
Southington Mfg. Co., Southington, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Swan, Jas. Co. ("Ames," "Universal" Chisel), Seymour, Conn.
Wood, A. A. & Sons Co. ("Universal"), Atlanta, Ga.

## 212— Augers (Ice)

Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Snell Mfg. Co., Fiskdale, Miss.

## 213— Augers (Millwrights')

Jennings-Russell Mfg. Co., Deep River, Conn.
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

## 214— Augers (Miners')

Fairmont Mining Machinery Co. ("Fairmont," Power), Fairmont, W. Va.
Fulton Tool Works (Breast), Canal Fulton, O.
Hardsocg Mfg. Co., Ottumwa, Iowa
Hardsocg, Martin Co., Pittsburg, Pa.
Nixon Mining Drill Co., Chattanooga, Tenn.
Peglar Mfg. Co. ("Breast"), Chattanooga, Tenn.
Pittsburg Steel Mfg. Co. (Breast), Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick" Coal), Works, Cheswick, Pa.
Salem Tool Co. ("Salem" Breast Auger for Coal Mining), Salem, O.
Snell Mfg. Co., Fiskdale, Mass.
Warwood Tool Co. (Breast), Wheeling, W. Va.
What Cheer Tool Co. ("Breast" for Soft Coal, also "Moser" Ratchet), What Cheer, Ia.

## 215— Augers (Post-Hole)

Briggs Labor Saving Specialty Co. (Lightning), Waterloo, Iowa
Buckeye Mfg. Co., Anderson, Ind.
Dicke Tool Co., Downer's Grove, Ill.
Eureka Fence Mfg. Co. ("S. & B."), Richmond, Ind.
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fenn Mfg. Co. ("Fenn's" Adjustable), Charlotte, Mich.
Hall Mfg. Co., Monticello, Ind.
Humane Horse Collar Co. ("Humane"), Omaha, Neb.
Iwan Bros. ("Iwan," "Vaughns"), South Bend, Ind.
Jackson Shovel & Tool Co. ("Hartford"), Montpelier, Ind., & Market & Randolph, Chicago, Ill.
Klein, Mathias & Son, 562 W Van Buren, Chicago, Ill.
Lehr Agricultural Co., Fremont, Ohio
Porter, J. E. Co. ("Keystone," "Porters"), Ottawa, Ill.
Prairie State Mfg. Co. ("Prairie"), Cedar Rapids, Ia.
Pratt, Wm. E. Mfg. Co. ("Star"), 91 Lake, Chicago, Ill.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Richards Mfg. Co. ("Richards"), Aurora, Ill.
Tucker & Dorsey Mfg. Co. ("Dalbey"), Indianapolis, Ind.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.

## 216— Augers (Pump Log)

Neidinger, Geo., Rochester, N. Y.
Pugh, Job. T., 2100 Ludlow, Phila., Pa.
Snell Mfg. Co., Fiskdale, Mass.

## 217— Augers (Rafting)

Irwin Auger Bit Co., Wilmington, Ohio
Jackson Mfg Co., Jackson, Ohio
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Snell Mfg. Co., Fiskdale, Mass.
Southington Mfg. Co., Southington, Conn.
Swan, Jas. Co., Seymour, Conn.

## 218— Augers (Ring)

Ford Auger Bit Co. ("Ford," Ship), Holyoke, Mass.
Irwin Auger Bit Co., Wilmington, Ohio
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Snell Mfg. Co., Fiskdale, Mass.
Southington Mfg. Co., Southington, Conn.
Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.
Wessman Tool Co., Rockford, Ill.

## 219— Augers (Sewer & Pipe Cleaner)

BERNZ, OTTO (Flitcroft Patent), 21 Ashland av, Newark, N. J. (See adv. index, end of book)

## 220— Augers (Ship)

Ford Auger Bit Co., Holyoke, Mass.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.
Irwin Auger Bit Co., Wilmington, Ohio
Jackson Mfg. Co., Jackson, Ohio
Jennings, C. E. & Co. ("The L'Hommedieu"), 42 Murray, New York
Ohio Tool Co., Columbus, O.
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Rockford Bit Co., Kokomo, Ind.
Snell Mfg. Co., Fiskdale, Mass.
Swan, James Co. ("Swan's"), Seymour, Conn.

## 221— Augers (Telegraph)

Pugh, Job T., 2100 Ludlow, Phila., Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.

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## 222— Augers (Treenail)

Ford Auger Bit Co. ("Ford"), Holyoke, Mass.
Snell Mfg. Co., Fiskdale, Mass.

## 223— Augers (Well)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)

Dempster Mill Mfg. Co., Beatrice, Neb.
Iwan Bros., South Bend, Ind.
Loomis Machine Co., Tiffin, O.
Mark Mfg. Co., Evanston, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pech, Gustave, Foundry & Machine Co. ("Monitor"), Le Mars, Ia.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Star Drilling Machine Co., Akron, Ohio

## 223a—Automobile Accessories (Special)

**VOELKNER & HARRY MFG. CO.** 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

## Automobile Boats

(See Motor Boat, Launch & Yacht Builders)

## 224— Automobile Builders

Star (*) Indicates Firms who Manufacture Steam Automobiles.
Dagger (†) indicates those who make Electric Automobiles.
Star & Dagger (*†) indicates those who make more than one kind. The kinds made by the latter are indicated in the parentheses following their names.
All others make Gasoline Automobiles.
(Importers of Foreign Makes Are Included in This List and Are So Marked)

**A. B. C. Motor Vehicle Mfg. Co., 3915 Morgan, St. Louis, Mo.**
Abbott Motor Co. (Pleasure Vehicles), Detroit, Mich.
**ABENDROTH & ROOT MFG. CO.** ("Frontenac" Touring Cars & Runabouts), Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abresch-Cramer Auto Truck Co. (Commercial Wagons), Milwaukee, Wis.
Acme Motor Car Co. ("Acme" Touring Cars, Runabouts, etc.), Reading, Pa.
Acorn Motor Car Co. (Commercial Vehicles), Cincinnati, O.
Adams Co. ("Adams-Farwell" Touring Cars), Dubuque, Ia.
Albaugh-Dover Co. (Pleasure Vehicles), Chicago, Ill.
Allen-Kingston Motor Car Co. (Touring Cars), 5 W 44th, New York
Alpena Motor Car Co. (Pleasure Vehicles), Alpena, Mich.
American Automobile Mfg. Co. (Pleasure & Commercial Vehicles), Beatrice, Neb.
*American-La France Fire Engine Co. (For Fire Department Service), 149 B'way, New York, & Elmira, N. Y.
American Locomotive Co., B'way & 62d, New York
†American Metal Wheel & Auto Co. ("Juvenile" Child's Car), Toledo, O.
American Motor Car Co. ("American" Tourist & Roadster), Indianapolis, Ind.
**American Motor Truck Co. (Commercial Trucks), Detroit, Mich.**
*†American Motor Truck Co. (Gasoline & Electric Commercial Trucks), Lockport, N. Y.
Anchor Motor Car Co. (Pleasure Cars), Cincinnati, O.
†Anderson Electric Car Co. (Stanhopes, Coupes), Detroit, Mich.
Anderson Carriage Mfg. Co. (Pleasure Cars), Anderson, Ind.
Angus Automobile Co. (Pleasure Cars), Angus, Neb.
Apperson Bros. Automobile Co. ("Apperson" Touring Cars, etc.), Kokomo, Ind.
Atlanta Motor Car Co. (Pleasure & Commercial Vehicles), Atlanta, Ga.
†Argo Electrical Vehicle Co. (Pleasure & Commercial Vehicles), Saginaw, Mich.
Atlas Motor Car Co. (Pleasure Vehicles, Taxicabs, etc.), Springfield, Mass.
*†Atterbury Motor Car Co. (Gasoline & Electric Commercial Trucks), Buffalo, N. Y.
Auburn Automobile Co., Auburn, Ind.
Austin Automobile Co. (Touring Cars, etc.), Grand Rapids, Mich.
Auto-Bug Co., Norwalk, O.
Autocar Co. (Touring Cars & Commercial Vehicles), Ardmore, Pa.
Automobile Maintenance & Mfg. Co. (Commercial Vehicles), 213 S Green, Chicago, Ill.
Auto-Tri Mfg. Co. (Commercial Vehicles), 1738 Elmwood av, Buffalo, N. Y.
Avery Co. (Commercial Trucks), Peoria, Ill.
B. C. K. Motor Car Co. (Pleasure & Commercial Vehicles), York, Pa.
†Babcock Electric Carriage Co. (Electric Carriages), 226 W Utica, Buffalo, N. Y.
Babcock, H. H. Co., Watertown, N. Y.
Badger Motor Car Co., Columbus, Wis.
†Bailey, S. R. & Co. (Inc.), Amesbury, Mass.
†Baker Motor Vehicle Co. ("Baker Kid," "Torpedo" Racing Cars, Runabouts, Depot Carriages, etc.), Cleveland, O.
Barnes Motor Car Co. (Pleasure Vehicles), Detroit, Mich.
Bartholomew Co. ("Glide" Touring Cars, Delivery Wagons, etc.), Peoria, Ill.
Belden Motor Car Co., Bessemer bldg., Pittsburg, Pa.
Belmont Motor Vehicle Co. (Pleasure Cars), Castleton, N. Y.
Benz Auto Import Co. (Importers), 250 W 54th, New York
Bergdoll, L. J. Motor Co. (Gasoline Pleasure Cars & Commercial Vehicles), Phila., Pa.
Berkshire Auto Car Co., Pittsfield, Mass.
Bertolet Motor Car Co., Reading, Pa.
Beyster-Detroit Co. (Commercial Vehicles), Detroit, Mich.
Black Mfg. Co. (Selling Agents for Crow Motor Car Co.), 211 E Ohio, Chicago, Ill.
Blacker, John H. Co. (Pleasure & Commercial Vehicles), Chillicothe, O.
Bonner, C. E. Mfg. Co. (Pleasure Vehicles), Chrisman, Ill.
Bowman, Sidney B. Automobile Co. (Importers), 225 W 49th, New York
Brightwood Motor Mfg. Co. (Pleasure Vehicles), Springfield, Mass.
British Napier Motors (Imported Pleasure Cars & Taxicabs) (Jamaica Plain), Boston, Mass.
†Broc Carriage & Wagon Co. (Pleasure Vehicles), Cleveland, O.
Brodesser Motor Truck Co. (Delivery & Commercial Vehicles), Milwaukee, Wis.
†Brunn's Carriage Mfg. Co. (Pleasure Vehicles), 1140 Main, Buffalo, N. Y.
Brunner Motor Car Co. (Commercial Vehicles), Buffalo, N. Y.
Brush Runabout Co., West Detroit, Mich.
Buckeye Mfg. Co. (Touring Cars, Trucks, etc.), Anderson, Ind.
Buckeye Wagon & Motor Car Co. (Commercial Vehicles), Dayton, O.
Buffalo Auto Truck & Motor Co., Buffalo, N. Y.
Buggycar Co. (Pleasure & Commercial Vehicles), Cincinnati, O.
Buick Motor Co. (Runabouts, Touring), Flint, Mich.
Burg, L. Carriage Co., Dallas City, Ill.
Burns Bros., Havre de Grace, Md.
C. & G. Auto Co. (Pleasure & Commercial Vehicles), 62 W 43d, New York
C. G. V. Import Co. (Importers), 49 W 64th, New York
Cadillac Motor Car Co. ("Cadillac" Runabouts, Touring Cars, Delivery Wagons, etc.), Detroit, Mich.
Cameron Car Co. ("Cameron" Light Touring), Beverly, Mass.
Carhartt Auto Corp'n (Pleasure Vehicles), Detroit, Mich.
Cartercar Co. (Pleasure & Commercial Vehicles),), Pontiac, Mich.
Carter Motor Car Corp'n (Pleasure Cars), Hyattsville, Md.
Case, J. I. Threshing Machine Co. (Pleasure Vehicles), Racine, Wis.
Case Motor Car Co. (Commercial Vehicles), New Bremen, O.
Cass Motor Truck Co. (Commercial Vehicles), Port Huron, Mich.
Chadwick Engineering Works (Pleasure Cars), Pottstown, Pa.
Chalfant Motor Car Co. (Touring), Lenover, Pa.
Chalmers Motor Co., Detroit, Mich.
*†Champion Wagon Co. (Gasoline-Electric Commercial Vehicles), Owego, N. Y.
Chase Motor Truck Co. (Commercial Trucks, etc.), Syracuse, N. Y.
Chicago Coach & Carriage Co. ("Duer" Runabout), 1223 Michigan av, Chicago, Ill.
Chicago Pneumatic Tool Co. (Commercial Vehicles), Chicago, Ill.
Chicago Motor Wagon Co. (Commercial Vehicles), 1224 E 46th, Chicago, Ill.
Clark, A. C. & Co. (Commercial Cars), Grand Crossing, Chicago, Ill.
*Clark, Edw. S. (Carriages, Delivery Wagons, etc.), 242 Freeport, Dor. Boston, Mass.
Clarke-Carter Automobile Co., Jackson, Mich.
Clark Motor Car Co. (Pleasure Cars), Shelbyville, Ind.
Clark Power Wagon Co. (Commercial Vehicles), Lansing, Mich.
Cleveland Motor Truck Mfg. Co. (Commercial Vehicles), Cleveland, O.
Climax Electric Works (Pleasure Cars), New Salem, Mass.
Club Car of America (Pleasure & Commercial Vehicles), Metropolitan Tower, New York
Coates-Goshen Automobile Co. (Pleasure Cars), Goshen, N. Y.
Colburn Automoblie Co., Denver, Col.
Colby Motor Co., Mason City, Ia.
Cole Motor Car Co. (Pleasure Vehicles), Indianapolis, Ind.
Columbia Electric Co., Knightstown, Ind.
*†Columbia Motor Car Co. ("Columbia" Carriages, Delivery Wagons, Trucks, etc., Electric & Gasoline), Hartford, Conn.
*†Columbus Buggy Co. (Gasoline & Electric Pleasure Vehicles), Columbus, O.
*†Commercial Motor Car Co. (Gasoline & Electric Trucks), Times bldg, New York
†Commercial Truck Co. of America, Phila., Pa.
Conti, Cesare (Importer), 35 B'way, New York
Corbin Motor Vehicle Corporation (Corbin Air-Cooled Touring Cars & Heavy Trucks), New Britain, Conn.
Corbitt Buggy Co. (Pleasure Vehicles), Henderson, N. C.
Correja Motor Car Co. (Pleasure Cars), 1851 B'way, New York
Cortland Wagon Co. (Commercial Vehicles), Cortland, N. Y.
*†Couple-Gear Freight Wheel Co. (Gasoline & Electric Commercial Vehicles), Grand Courier Car Co., Dayton, O. Rapids, Mich.
Crane Motor Car Co., Bayonne, N. J.
Crane & Breed Mfg. Co. (Ambulances, Hearses, etc.), Cincinnati, O.
Crawford Automobile Co. ("Crawford" Cars), Hagerstown, Md.
Crow Motor Car Co. (Pleasure & Commercial Vehicles), Elkhart, Ind.
Crown Commercial Car Co. (Motor Trucks), So. Milwaukee, Wis.
Croxton Motor Co. (Pleasure & Commercial Cars), Massillon, O.
Cunningham, Jas. Son & Co. (Pleasure Vehicles), Rochester, N. Y.
Daimler Import Co., 452 5th av, New York
Darby Motor Car Co. (Pleasure & Commercial Vehicles), 530 De Balivere av, St. Louis, Mo.
Dart Mfg. Co., Anderson, Ind.
Davis, Geo. W. Carriage Co. (Pleasure Cars), Richmond, Ind.
Dayton Auto Truck Co. (Commercial Vehicles), Dayton, O.
Dayton Electromobile Co. (Commercial Cars), Dayton, O.
Dayton Motor Car Co. ("Stoddard-Dayton"), Dayton, O.
Deal Buggy Co., Jonesville, Mich.
Decatur Motor Car Co. (Pleasure Cars & Commercial Trucks), Decatur, Ind.
De Dion-Bouton Selling Branch (Importers), 1649 B'way, New York
Delahaye Import Co. (Importers), 2 Rector, New York
Demotcar Co., Detroit, Mich.
Derain Motor Co. (Pleasure Cars), Cleveland, O.
De Tamble Motors Co. (Pleasure Vehicles), Anderson, Ind.
Detroit-Dearborn Motor Car Co. (Pleasure Cars), Detroit, Mich.
Diamond Automobile Co. (Pleasure Vehicles), South Bend, Ind.
Diamond T Motor Car Co. (Touring), 510 Huron, Chicago, Ill.
Dorris Motor Car Co. (Touring Cars), 22 S Sarah, St. Louis, Mo.
Ducasse, H. & Co. (Import), 735 7th av, New York
Duplex Motor Car Co. (Pleasure Vehicles), Chicago, Ill.
Duplex Power Car Co. (Commercial Vehicles), Charlotte, Mich.
Durocar Mfg. Co. (Pleasure Cars), Los Angeles, Cal.
Duryea, Charles E. (Pleasure & Commercial Vehicles), Reading, Pa.
Easton Machine Co. (Pleasure Cars), South Easton, Mass.
Economy Motor Car Co. (Pleasure & Commercial Vehicles). Joliet, Ill.
Elkhart Carriage & Harness Mfg. Co. (Pleasure Cars), Elkhart, Ind.
*†Elkhart Motor Car Co. (Gasoline & Electric Pleasure Cars), Elkhart, Ind.

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Elmore Mfg. Co. ("Elmore" Pathfinder Touring Cars, 2 Cycle), Clyde, O.
Embree-McLean Carriage Co. (Pleasure Vehicles), St. Louis, Mo.
Empire Motor Car Co., Indianapolis, Ind.
Enger Motor Car Co., Cincinnati, O.
Etnyre Motor Car Co., Oregon, Ill.
Eureka Motor Car Mfg. Co. (Pleasure & Commercial Vehicles), St. Louis, Mo.
Evansville Automobile Co. (Pleasure Vehicles), Evansville, Ind.
Ewing Automobile Co. (Commercial Vehicles, Taxicabs), Geneva, N. Y.
Everitt-Metzger Flanders Co. (Pleasure Vehicles), Detroit, Mich.
Fal Motor Co. (Pleasure Cars), 171 N May, Chicago. Ill.
Falcon Motor Car Mfg. Co. (Pleasure Vehicles), 911 Broad, Phila., Pa.
Federal Motor Truck Co. (Commercial Vehicles), Detroit, Mich.
Fee-Bock Auto Co. (Touring), Detroit, Mich.
Fetzer Automobile Mfg. Co. (Pleasure Vehicles), Galion, O.
Fiat Automobile Co. (Importers), 1786 B'way, New York
Field Auto Mfg. Co. (Pleasure Cars), Lincoln. Neb.
Findlay Motor Co. (Commercial Wagons), Findlay, O.
Flandrau Motor Car Co. (Importers), 406 Broome, New York
Flint Wagon Works, Flint, Mich.
Ford Motor Co. (Touring Cars, Runabouts, Racing Cars, Taxicabs, etc.), Detroit, Mich.
Fort Wayne Automobile Co. (Commercial Vehicles), Fort Wayne, Ind.
Four Traction Auto Co., Mankato, Minn.
Franklin, H. H. Mfg. Co. (Runabouts, Touring Cars, Commercial Vehicles, etc.), Syracuse. N. Y.
French Motor Import Co. (Importers), 1777 B'way. New York
†Fritchie Automobile & Battery Co. (Pleasure Cars), Denver, Colo.
Fuller Buggy Co. (Pleasure & Commercial Vehicles), Jackson, Mich.
G. J. G. Motor Car Co., White Plains, N. Y.
Gabriel Auto Co. (Pleasure Vehicles), Cleveland, O.
Garford Co. (Pleasure & Commercial Cars), Elyria O.
†General Vehicle Co. (Victorias, Landaulets, Roadsters, Runabouts, Commercial Wagons & Trucks). Long Island City, N. Y.
Geneva Wagon Co. (Commercial Cars), Geneva, N. Y.
Grabowsky Power Wagon Co., Detroit, Mich.
Gramm Motor Car Co. (Commercial Cars), Lima, O.
Graves & Congdon Co., Amesbury, Mass.
Great Western Automobile Co. (Pleasure Cars), Peru, Ind.
Groenig Motor Car Co. (Pleasure Cars), Holloway, Minn.
Grout Automobile Co. (Touring Cars), Orange, Mass.
Haberer & Co. ("Cino" Motor Cars), Cincinnati, O.
Haller Wagon & Carriage Co. (Commercial Vehicles), Louisville, Ky.
*Halsey. Jas. T. Motor Truck Co. (Steam & Gasoline Trucks), 336 N York av, Phila., Pa.
Hamilton Motor Car Co. (Pleasure Vehicles), Greensburg, Ind.
Hart-Kraft Motor Co. (Commercial Power Wagons). York. Pa.
Haynes Automobile Co. (Touring Cars). Kokomo, Ind.
Henry Motor Car Co. (Pleasure Vehicles), Muskegon, Mich.
Herreshoff Motor Co., Detroit, Mich.
Hobbie Automobile Co., Hampton, Ia.
Hol-Tan Co. (Importers), 250 W 54th, New York
Hotchkiss Import Co. (Importers), 20 W 60th. New York
Howard Motor Car Co. (Pleasure Vehicles), Galion, O.
Houpt, Harry S. Mfg. Co., 2004 B'way, N. Y.
Hudson Motor Car Co. (Touring Cars), Detroit, Mich.
Hupp Motor Car Co. (Pleasure Cars), Detroit, Mich.
†Hupp-Yeats Electric Car Co. (Pleasure & Commercial Vehicles), Detroit, Mich.
†Ideal Electric Co. (Commercial Vehicles), 444 W Indiana, Chicago, Ill.
Imperial Automobile Co., Jackson. Mich.
Indiana Motor & Mfg. Co., Indianapolis, Ind.
Industrial Automobile Co. (Pleasure & Commercial Vehicles), Elkhart, Ind.
International Harvester Co. ("Farmers"), Chicago, Ill.
Inter-State Automobile Co. (Pleasure Cars), Muncie, Ind.
J. & M. Motor Car Co. (Pleasure Vehicles), Lawrenceburg, Ind.
Jackson Automobile Co. (Touring Cars & Runabouts), Jackson, Mich.
Jeffrey, Thos. B. & Co. ("Rambler" Runabouts, Surreys, Touring Cars, etc.), Kenosha, Wis.
Jenkins Motor Car Co., Rochester, N. Y.
Jewel Carriage Co. (Pleasure & Commercial Vehicles), Carthage, O.
Joerms-Thiem Motor Car Co. (Commercial Vehicles), St. Paul, Minn.
Johnson Service Co. (Commercial Wagons), Milwaukee, Wis.
Jonz Automobile Co., Beatrice, Neb.
Kansas City Vehicle Co., Kansas City, Mo.
Kearns Motor Car Co., Beavertown, Pa.
Kelley Motor Truck Co. (Commercial Vehicles), Springfield, O.
Kenmore Mfg. Co., Chicago, Ill.
†Kimball, E. P. & Co. (Pleasure Vehicles), Chicago, Ill.
Kissel Motor Car Co. (Pleasure Cars), Hartford, Wis.
Knox Automobile Co. (Runabouts, Touring Cars, Commercial Vehicles, etc.), Springfield, Mass.
Koeb-Thompson Motor Co. (Pleasure & Commercial Cars). Leipsic. O.
Koehler, H. J. Co., 1709 B'way, New York
K-R-I-T Motor Car Co., Detroit, Mich.
La Buire Auto Import Co. (Importers), 1964 B'way, New York
Lambert Motor Truck Co. (Commercial Vehicles), Anderson, Ind.
*Lane Motor Vehicle Co. (Touring Cars), Poughkeepsie, N. Y.
Lanpher Motor Buggy Co. (Pleasure & Commercial Vehicles), Carthage, Mo.
†Lansden Co. (Pleasure Vehicles & Commercial Wagons), Newark, N. J.
Lauth-Juergens Motor Car Co., 526 Elston av, Chicago, Ill.
Leighton Auto Co. (Pleasure Cars), Brockton Mass.
Leist Automobile Mfg. Co. (Pleasure Vehicles), Michigan City, Ind.
Lexington Motor Car Co., Connersville, Ind.
Lion Motor Car Co., Adrian, Mich.
Locomobile Company of America (Gasoline Touring Cars), Bridgeport, Conn.
Lozier Motor Co. ("Lozier" Motor Cars, etc.), Detroit, Mich.
Luitweiler Pumping Engine Co. (Fire Apparatus), Rochester. N. Y.
Lumund Motor Car Co. (Commercial Vehicles), Rutherford, N. J.
Luverne Auto Co. (Pleasure Cars), Luverne, Minn.
McCue Co. (Pleasure Vehicles), Hartford, Conn.
McFarlan Motor Car Co., Connersville, Ind.
McIntyre. W. H. Co. (Pleasure & Commercial Vehicles), Auburn. Ind.
Mack Bros. Motor Car Co. ("Mack" Trucks. Delivery Wagons), Allentown, Pa., & Brooklyn, N. Y.
Mais Motor Truck Co. (Commercial Vehicles). Indianapolis, Ind.
Manlius Motor Co., Manlius, N. Y.
Marion Automobile Mfg. Co. ("Marion" Air Cooled Cars). Indianapolis, Ind.
Marquette Motor Vehicle Co. (Commercial Vehicles), 3626 S Halsted, Chicago, Ill.
Martin Carriage Works (Commercial Vehicles), York, Pa.
Matheson Motor Car Co. (Ltd.) (Touring Cars & Commercial Vehicles), Wilkes-Barre. Pa.
Maxwell-Briscoe Motor Co. (Touring Cars & Commercial Vehicles), Tarrytown, N. Y.
Maytag-Mason Motor Co., Waterloo, Ia.
Megow, C. F. Co. ("Champion" Motor Trucks), Milwaukee. Wis.)
Mercer Automobile Co., Trenton, N. J.
Metz Co. (Pleasure & Commercial Vehicles), Waltham. Mass.
Metzger Motor Car Co. (Pleasure Cars). Detroit, Mich.
Michigan Automobile Co., Ltd., Kalamazoo, Mich.
Michigan Buggy Co. (Pleasure Vehicles), Kalamazoo, Mich.
Michigan Motor Car Co. (Pleasure Cars). Detroit, Mich.
*Michigan Steam Motor Co. (Pleasure Cars). Detroit, Mich.
Middleby Auto Co. (Pleasure Cars), Reading, Pa.
Midland Motor Co. (Pleasure Cars), Moline, Ill.
Mier Carriage & Buggy Co. (Pleasure Vehicles). Ligonier. Ind.
Minneapolis Motor & Truck Co. (Commercial Vehicles), Minneapolis, Minn.
Mitchell-Lewis Motor Co. (Touring Cars, Runabouts, Taxicabs, etc.), Racine, Wis.
Moline Automobile Co. ("Moline"), East Moline, Ill.
Monitor Automobile Works (Commercial Cars), Janesville, Wis.
Moon Motor Car Co. ("Moon" Touring Cars), 4402 Main, St. Louis, Mo.
Mora Motor Car Co. (Touring, etc.), Newark, N. Y.
Morgan, R. I. Co. (Gasoline Trucks), Worcester, Mass.
Morse-Readio Auto Co. (Pleasure Vehicles), Springfield, Mass.
Motor Buggy Mfg. Co. (Pleasure & Commercial Vehicles), Minneapolis, Minn.
Motor Car Mfg. Co. (Pleasure Vehicles), Indianapolis, Ind.
Motor Car Repair Co. (Pleasure & Commercial Vehicles), 509 W 56th, New York
Motor Car Co. of America, 2100 B'way, New York
Moyer, H. A. (Pleasure Vehicles), Syracuse, N. Y.
Munsing Motor Car Co. (Taxicabs, etc.), 231 W 40th, New York
Nance Motor Car Co., 1209 Vine, Phila., Pa.
*†National Motor Vehicle Co. ("The New National" Runabouts, Touring Cars, etc., Electric & Gasoline), Indianapolis, Ind.
Neville, T. (Pleasure & Commercial Vehicles), Oshkosh, Wis.
New Departure Mfg. Co., Detroit, Mich.. & Bristol, Conn.
New Haven Truck & Automobile Works (Pleasure & Commercial) New Haven. Conn.
Nordyke & Marmon Co. ("Marmon" Touring Cars). Indianapolis, Ind.
Norwalk Motor Car Co., Norwalk, O.
Nyberg Automobile Works (Pleasure & Commercial Vehicles), 2437 Michigan av, Chicago, Ill.
Oakland Motor Car Co. (Touring Cars, Runabouts, etc.), Pontiac, Mich.
†Ohio Electric Carriage Co. (Pleasure Vehicles), Toledo, O.
Ohio Motor Car Co., Cincinnati, O.
Olds Motor Works (Runabouts, Touring Cars, Delivery Wagons, etc.), Lansing, Mich.
Oliver Motor Car Co. (Commercial Vehicles), Detroit, Mich.
Olney Automobile Co. (Commercial Vehicles), 408 Summerville, Phila., Pa.
Omar Motor Co. (Juvenile Cars), Newark, N. Y.
Otto Gas Engine Wks, 33d & Walnut, Phila., Pa.
Otto, Albert T. (Importer), 1876 B'way, New York
Overholt Co. (Pleasure Cars), Galesburg, Ill.
Owen Motor Car Co. (Pleasure Vehicles), Detroit, Mich.
Owosso Motor Co. (Commercial Trucks), Owosso, Mich.
Packard Motor Car Co. (Pleasure and Commercial Vehicles), Detroit, Mich.
Packers Motor Truck Co. (Commercial Vehicles), Pittsburg, Pa.
Paige-Detroit Motor Car Co., Detroit, Mich.
Palmer & Singer Mfg. Co. (Pleasure Vehicles), 1620 B'way, New York
Panhard & Levassor (Importers), B'way & 62d, New York
Parry Auto Co., Indianapolis. Ind.
Patterson, W. A. Motor Car Co., Flint, Mich.
Peerless Motor Car Co. ("Peerless" Touring Cars), Cleveland, O.
Pell Motor Car Co. (Pleasure Vehicles), Oswego, N. Y.
Penn-Unit Car Co. (Commercial Vehicles), Allentown, Pa.
Pennsylvania Auto-Motor Co. (Touring), Bryn Mawr, Pa.
Petrel Motor Car Co. (Pleasure Vehicles), Milwaukee, Wis.
Phoenix Automobile Works (Commercial Cars), Phoenixville, Pa.
Pickard Bros. (Touring Cars & Roadsters), Brockton, Mass.
Pierce-Arrow Motor Car Co. (Pleasure Cars, etc.), 1695 Elmwood av, Buffalo, N. Y.
Pierce Motor Co. ("Pierce-Racine" Runabouts & Touring Cars), Racine, Wis.
Piggins Bros. (Pleasure Cars). Racine, Wis.
Pilot Motor Car Co. (Pleasure Vehicles), Richmond, Ind.
Pioneer Car Co., El Reno, Okla.
Plymouth Motor Truck Co. (Commercial Trucks), Plymouth, O.
Pope Mfg. Co. (Touring Cars), Hartford, Conn.
Power Car Auto Co., Cincinnati, O.
Power Vehicle Co. (Pleasure Vehicles), Milwaukee, Wis.
Premier Motor Mfg. Co. (Pleasure & Commercial Vehicles), Indianapolis, Ind.
Pullman Motor Car Co. (Runabouts, Touring), York, Pa.

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Pungs-Finch Auto & Gas Engine Co. (4-cylinder Touring Cars), Detroit, Mich.
Queen City Motor Car Co. (Pleasure Vehicles), Cincinnati, O.
Quinby, J. M. & Co. (Importers), Newark, N. J.
Rambler Motor Co., B'way & 64th, New York
Randolph Motor Car Co. (Commercial Vehicles), Flint, Mich.
Ranger Auto Co., 188 Madison, Chicago, Ill.
Rapid Motor Vehicle Co. (Commercial Power Wagons), Pontiac, Mich.
Rassel, E. C. Mfg. Co. (Commercial Vehicles), Toledo, O.
†Rauch & Lang Carriage Co. (Coupes, Stanhopes, Landaulets), Cleveland, O.
Rayfield Motor Car Co. (Pleasure Vehicles), Springfield, Ill.
Regal Motor Car Co. (Pleasure Vehicles), Detroit, Mich.
Reliance Motor Truck Co. (Commercial Trucks), Owosso, Mich.
Renault-Freres Selling Branch (Importers), 1776 B'way, New York
Reo Motor Car Co. (Pleasure Vehicles), Lansing, Mich
Republic Motor Car Co. (Pleasure Vehicles) Hamilton, O
Robinson-Loomis Motor Truck Co. (Commercial Vehicles), Minneapolis, Minn.
Rogers Motor Car Co. (Pleasure Cars), Omaha, Neb.
*Ross, Louis S., Newtonville, Mass.
Rowerdink, W. H. & Son (Pleasure Vehicles), Rochester, N. Y.
Royal Tourist Car Co. (Pleasure Vehicles) Cleveland, O.
St. Louis Car Co. (Pleasure Cars), 5200 N 2d, St. Louis, Mo.
Salter, W. A. Motor Co., Kansas City, Mo.
Sampson, Alden Mfg. Co. (Commercial Vehicles), Detroit, Mich.
Savage, M. W. (Pleasure Vehicles) Minneapolis, Minn.
Sanford, Herbert Co. (Commercial Vehicles), Syracuse, N. Y.
Sauer Motor Co. (Comercial Vehicles), Plainfield, N. J.
Sayers & Scoville Co. (Commercial Vehicles), Cincinnati, O.
Schacht Motor Car Co. (Repair Wagon, Runabout & Touring Car), Cincinnati, O.
Schleicher Motor Vehicle Co. (Commercial Vehicles), 37 W 14th, New York
Schlosser Mfg. Co. (Pleasure Cars), 151 E 126th, New York
Schurmeier Motor Car Co. (Commercial Vehicles), St. Paul, Minn.
Seagrave Co., Columbus, O.
Sears Motor Car Works, Harrison & Loomis, Chicago, Ill.
Sebring Motor Car Co., Sebring, O.
Seitz Automobile & Transmission Co. (Commercial Vehicles), Detroit, Mich.
Selden Motor Vehicle Co. (Runabouts, Touring), Rochester, N. Y
Sharp Arrow Automobile Co. (Racing Cars), Trenton, N. J.
Sheffield Car Co. (Gasoline Trucks, Drays & Delivery Wagons), Three Rivers, Mich.
Sibley Motor Car Co. (Pleasure Cars), Detroit, Mich.
Silent-Sioux Auto Mfg. Co. (Pleasure Vehicles) Sioux Falls, S. D.
Simplex Automobile Co., Inc., 614 E 83d, New York
Simplex Motor Car Co. (Touring Cars), Mishawaka, Ind
Smith Auto Co. ("Smith" Touring), Topeka, Kans.
Southern Motor Car Factory (Pleasure Vehicles), Houston, Tex.
Southern Motor Works, Nashville, Tenn.
Spaulding Mfg. Co., Grinnell, Ia.
Speedwell Motor Car Co. (Pleasure & Commercial Vehicles), Dayton, O.
Spoerer's, Carl Sons Co., Baltimore, Md.
Stafford Motor Car Co. (Pleasure Vehicles). Kansas City, Mo
*†Standard, G. & E. Power Co. (Gasoline & Electric Pleasure & Commercail Vehicles), 50th & Lancaster av, Phila., Pa.
*Stanley Motor Carriage Co., Newton, Mass.
Star Motor Car Co., Indianapolis, Ind.
Staver Carriage Co. (Pleasure Cars), W 76th & Wallace, Chicago, Ill.
Stearns, F. B. Co. (Touring Cars, etc.), Cleveland, O.
Stephenson Motor Car Co. (Commercial Vehicles), Milwaukee, Wis.
Sterling Vehicle Co. (Commercial Vehicles), Harvey, Ill.
Stevens-Duryea Co. (Runabouts, Touring Cars, etc.). Chicopee Falls, Mass.
Streator Motor Car Co. ("Halladay"), Streator, Ill.
Stuart Commercial Car Co., Detroit, Mich.
*†Studebaker Automobile Co. (Gasoline & Electric, Pleasure & Commercial Vehicles). South Bend, Ind.
Sullivan Motor Car Co., Rochester, N. Y.
Sultan Motor Co., 1659 B'way, New York
Superior Motor Car Co. (Pleasure Cars), Detroit, Mich.
Superior Motor Vehicle Co. (Commercial Vehicles), Buffalo, N. Y.
Thomas, E. R. Motor Co. (Touring Cars, Runabouts, Tourabouts, Limousines, Landaulets & Town Cars), Buffalo, N. Y.
Thomas Motor Cab Co., Buffalo, N. Y.
†Toledo Electric Vehicle Co. (Pleasure Cars), Toledo, O.
Torbensen Motor Car Co. (Commercial Vehicles), Bloomfield, N. J.
Traveller Automobile Co., Evansville, Ind.
Triumph Motor Car Co. (Pleasure & Commercial Vehicles), 3308 Sheffield av, Chicago, Ill.
U. S. Carriage Co. (Pleasure Vehicles), Columbus, O.
United States Motor Co. (Selling Agents), 505 5th av, New York
United States Motor Truck Co. (Commercial Vehicles), Cincinnati, O.
Universal Motor Truck Co. (Motor Trucks), Detroit, Mich.
Van Dyke Motor Car (Commercail Vehicles), Detroit, Mich.
Van Motor Car Co. (Pleasure & Commercial Vehicles), Grand Haven, Mich.
Van Wambeke, H. F. & Sons (Pleasure Vehicles & Motor Wagons), Elgin, Ill.
Veerac Motor Co. (Pleasure & Commercial Vehicles), Minneapolis, Minn.
Velie Motor Vehicle Co. (Pleasure Vehicles), Moline, Ill.
Vickers Motor Car Co. (Pleasure Cars), Coshocton, O.
Victor Auto Co. (Pleasure Vehicles), Ridgeville, Ind.
Victor Automobile Mfg. Co. (Pleasure & Commercial Vehicles), St. Louis, Mo.
Victor Motor Truck Co. (Commercial Vehicles), Buffalo, N. Y.
Waldron Runabout Mfg. Co. (Pleasure & Commercial Vehicles), Waldorn, Ill.
Warren Motor Car Co., Detroit, Mich.
†Washington Motor Vehicle Co. (Commercial Vehicles), Washington, D. C.
Waterville Tractor Co. (Commercial Trucks), Waterville, O.
†Waverly Co. (Pleasure & Commercial Vehicles), Indianapolis, Ind.
Wayne Works ("Richmond" Air Cooled Cars), Richmond, Ind.
Webb Motor Fire Apparatus Co., Vincennes, Ind.
Welch Co. of Detroit (Pleasurre Vehicles), Detroit, Mich.
Westcott Motor Car Co., Richmond, Ind.
*†White Co. (Gasoline & Steam Pleasure & Commercial Vehicles), Cleveland, O.
White, Geo. Buggy Co. (Pleasure Vehicles), Rock Island, Ill.
Whitesides Commercial Car Co., Franklin, Ind.
Whitesides Wheel Co. (Pleasure Cars), Indianapolis, Ind.
Whitewater Mfg. Co. (Commercial Vehicles), Whitewater, Wis.
Wichita Automobile Co. (Pleasure & Commercial Vehicles), Wichita, Kan.
Wilcox, H. E. Motor Car Co. (Pleasure & Commercial Vehicles), Minneapolis, Minn.
Willys-Overland Co., Toledo, O.
Winkler Bros. Mfg. Co. (Commercial Vehicles), South Bend, Ind.
Winton Motor Car Co. (Pleasure Cars), Berea rd, Cleveland, O.
Wisconsin Motor Car Co., Janesville, Wis.
Wood, W. A. Automobile Mfg. Co. (Pleasure Vehicles), Kingston, N. Y.
Woodburn Automobile Co. (Pleasure Vehicles), Woodburn, Ind.
†Woods Motor Vehicle Co. (Electric Pleasure Vehicles), 2521 Calumet av, Chicago, Ill.
Worth Motor Car Mfg. Co. (Pleasure & Commercial Vehicles), Kankakee, Ill.
Wright Motor Car Co. (Pleasure Vehicles), New Cumberland, Pa.
Zimmer, Philip G. (Railway Motor Cars), Hammondsport, N. Y.
Zimmerman Mfg. Co. (Pleasure Cars), Auburn, Ind.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 225—Automobile or Motor Car Trade Names

(Each name is followed by the title (in some cases in an abbreviated form) of the firm making or handling car. The full name, address and variety of product of each firm may be found at a glance by consulting the preceding list of Automobile Builders)

(Names of Foreign Cars are followed by the word "Imported")

"A. B. C."—A. B. C. Motor V. Mfg. Co.
"ABBOTT-DETROIT"—Abbott Motor Co.
"ACME"—Acme M. C. Co.
"ACME"—Motor Buggy Mfg. Co.
"ACORN"—Acorn M. C. Co.
"ADAMS-FARWELL—Adams Co.
"ALCO"—American Locomotive Co.
"ALDO"—Albaugh-Dover Co.
"ALLEN-KINGSTON"—Allen-Kingston M. C. Co.
"AMERICAN" (Electric Commercial Cars)—American Motor Truck Co.
"AMERICAN" (Gasoline Commercial Cars)—American Motor Truck Co.
"AMERICAN"—(Gasoline Pleasure Cars)—American M. C. Co.
"AMERICAN MARS"—St. Louis Car Co.
"AMERICAN SIMPLEX"—Simplex Motor Car Co.
"ANCHOR"—Anchor M. C. Co.
"ANDERSON"—Anderson Carriage Mfg. Co.
"APPERSON"—Apperson Bros. Auto Co.
"ATLAS"—Atlas Motor Car. Co.
"AUBURN"—Auburn Automobile Co.
"AUSTIN"—Austin Automobile Co.
"AUTO-BUG"—Auto-Bug Co.
"AUTOCAR"—Autocar Co.
"AVERY"—Avery Co.
"BABCOCK" (Electric)—Babcock E. C. Co.
"BABCOCK" (Gasoline)—Babcock, H. H. Co.
"BADGER"—Badger M. C. Co.
"BAILEY"—Bailey, S. R. & Co.
"BAKER"—Baker M. V. Co.
"BARRE" (Imported)—French Import Co.
"BELDEN"—Belden M. C. Co.
"BELMONT"—Belmont M. V. Co.
"BENZ" (Imported)—Benz Auto Import Co.
"BERGDOLL"—Bergdoll, L. J. Motor Co.
"BERKSHIRE"—Berkshire Auto Car Co.
"BERLIET" (Imported)—Otto, Albert T.
"BERTOLET"—Bertolet M. C. Co.
"BIG FOUR"—Matheson M. C. Co.
"BLACK"—Black Mfg. Co.
"BLACK CROW"—Crow Motor Car Co.
"BLACKER"—Blacker, J. H. & Co.
"BONNER"—Bonner, C. E. Mfg. Co.
"BRASIER" (Imported)—Flandrau M. C. Co.
"BREEZE"—Jewel Carriage Co.
"BRITISH NAPIER" (Imported)—British Napier Motors
"BROC"—Broc Carriage & Wagon Co.
"BRODESSER"—Brodesser M. T. Co.
"BROWNIEKAR"—Omar Motor Co.
"BRUNNER"—Brunner M. C. Co.
"BRUSH"—Brush Runabout Co.
"BUCKEYE"—Buckeye W. & M. C. Co.
"BUFFALO"—Atterbury M. C. Co.
"BUGGYCAR"—Buggycar Co.
"BUICK"—Buick M. C. Co.
"BURG"—Burg, L. Carriage Co.
"C. G. V." (Imported)—C. G. V. Import Co.
"CADILLAC"—Cadillac Motor Car Co.
"CAMERON"—Cameron Car Co.
"CAPITAL"—Washington Motor Vehicle Co.
"CARHARTT"—Carhartt Auto Corp'n
"CARTERCAR"—Cartercar Co.
"CASE"—Case, J. I. Threshing Machine Co.
"CASS"—Cass Motor Truck Co.
"CHADWICK"—Chadwick Engineering Works
"CHALFANT"—Chalfant M. C. Co.
"CHALMERS"—Chalmers Motor Co.
"CHAMPION"—Champion Wagon Co.
"CHAMPTON"—Megow, C. F. Co.
"CHASE"—Chase Motor T. Co.
"CHICAGO"—Chicago Motor Wagon Co.
"CINO"—Haberer & Co., Cincinnati, O.
"CLARK"—Clark, A. C. Co.
"CLARK"—Clark, Edw. S.
"CLARK"—Clark M. C. Co.
"CLARK"—Clark Power Wagon Co.
"CLEMENT-BAYARD" (Imported) — Bowman, S. B. Auto Co.
"CLEVELAND"—Cleveland M. T. Co.
"CLIMAX"—Climax Electric Works
"CLUB CAR"—Club Car Co. of America
"COATES-GOSHEN"—Coates-Goshen Auto Co.
"COLBURN"—Colburn Auto Co.
"COLBY"—Colby M. Co.
"COLE"—Cole M. C. Co.
"COLUMBIA"—Columbia M. C. Co.
"COLUMBUS ELECTRIC"—Columbus Buggy Co.
"COMMER"—Wood, W. A. Auto Co.
"COPPOCK"—Decatur M. C. Co.

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"CORBIN"—Corbin M. V. Corporation
"CORBITT"—Corbitt Buggy Co.
"CORREJA"—Correja M. C. Co.
"CORTLAND"—Cortland Wagon Co.
"COUPLE GEAR"—Couple Gear Freight Wheel
"COURIER"—Courier Car Co. Co.
"CRAWFORD"—Crawford Automobile Co.
"CROWN"—Crown Commercial Car Co.
"CROWN"—Graves & Congdon Co.
"CROXTON"—Croxton Motor Co.
"CUNNINGHAM"—Cunningham, Jas. & Son
"CUTTING"—Clarke Carter Auto Co.
"DAN PATCH"—Savage, M. W.
"DARBY"—Darby M. C. Co.
"DARRACQ"—Ducasse, H. & Co.
"DART"—Dart Mfg. Co.
"DAYTON"—Dayton Auto Truck Co.
"DAYTON"—Dayton Electromobile Co.
"DECATUR"—Decatur M. C. Co.
"DE DION-BOUTON" (Imported)—De Dion-Bouton Selling Branch, 1649 B'way
"DEMOT"—Demotcar Co.
"DERAIN"—Derain Motor Co.
"DE TAMBLE"—De Tamble M. Co.
"DETROIT"—Anderson Carriage Co.
"DETROIT-DEARBORN"—Detroit-Dearborn M.
"DIAMOND"—Diamond Auto Co. C. Co.
"DIAMOND T"—Diamond T. M. C. Co.
"DIXIE"—Southern M. C. Factory
"DORRIS"—Dorris Motor Car Co.
"D-P"—Duplex Power Car Co.
"DUER"—Chicago Coach & Carriage Co.
"DUNTLEY"—Chicago P. T. Co.
"DUPLEX"—Duplex M. C. Co.
"DUPLEX"—Duplex Power Car Co.
"DUROCAR"—Durocar Mfg. Co.
"DURYEA"—Duryea, Chas. E.
"E. M. F."—Everitt-Metzger-Flanders Co.
"ELMORE"—Elmore Mfg. Co
"EMBREE-McLEAN"—Embree-McLean C. Co.
"EMPIRE"—Empire M. C. Co.
"ENGER"—Enger M. C. Co.
"ETNYRE"—Etnyre M. C. Co.
"EUREKA"—Eureka Motor Car Mfg. Co.
"EVERITT"—Metzger M. C. Co.
"EWING"—Findlay M. C. Co.
"EXPRESS"—Johnson Service Co.
"FAL-CAR"—Fal Motor Co.
"FALCON"—Falcon M. C. Co.
"FARMERS"—International Harvester Co. of
"FEDERAL"—Industrial Auto Co. America
"FEDERAL"—Rockford Auto & Engine Co.
"FETZGER"—Fetzger Auto Mfg. Co.
"FIAT" (Imported)—Fiat Auto Co.
"FIELD"—Field Auto Mfg. Co.
"FIRESTONE"—Columbus Buggy Co.
"FLANDERS"—Everitt-Metzger-Flanders Co.
"FLYING CHIEFTAIN"—Seagrave Co.
"FORD"—Ford Motor Co.
"FORT WAYNE"—Fort Wayne Auto Co.
"FOUR WHEEL DRIVE"—Badger Four Wheel Drive Co.
"FRANKLIN"—Franklin, H. H. Mfg. Co.
"FRAYER-MILLER"—Lear, Oscar, Auto Co.
"FRITCHLE"—Fritchle Automobile & Battery
"FRONTENAC"—Abendroth & Root Co. Co.
"FULLER"—Angus Auto Co.
"FULLER"—Fuller Buggy Co.
"GALE"—Robson Mfg. Co.
"GARFORD"—Garford Co.
"GAYLORD"—Gaylord M. C. Co.
"GENEVA"—Geneva Wagon Co.
"GERBER"—Minneapolis M. & T. Co.
"GLEASON"—Kansas City V. Co.
"GLIDE"—Bartholomew Co.
"GOPHER"—Robinson-Loomis M. T. Co.
"GRABOWSKY"—Grabowsky Power Wagon Co.
"GRAMM"—Gramm M. C. Co.
"GREAT CHADWICK"—Chadwick Engineering Works
"GREAT EAGLE"—U. S. Carriage Co.
"GREAT SMITH"—Smith Auto Co.
"GREAT WESTERN"—Great Western Auto Co.
"GREGOIRE" (Imported)—French Motor Im-
"GROENIG"—Groenig, M. C. Co. port Co.
"GROUT"—Grout Automobile Co.
"HALLIDAY"—Streator Motor Car Co.
"HART-KRAFT"—Hart-Kraft Motor Co.
"HAYNES"—Haynes Automobile Co.
"HENRY"—Henry M. C. Co.
"HERRESHOFF"—Herreshoff M. Co.
"HEWITT"—Metzger M. C. Co.
"HOBBIE"—Hobbie Auto Co.
"HOTCHKISS" (Imported)—Hotchkiss Import
"HOUPT"—Houpt, H. S. Co.
"HUDSON"—Hudson M. C. Co.
"HUPMOBILE"—Hupp Motor Car Co.
"HUPP-YEATS"—Hupp-Yeats Electric Car Co.
"I. H. C."—International Harvester Co.
"IDEAL"—Ideal Electric Co.
"ILLINOIS"—Overholt Co.
"IMPERIAL"—Imperial Auto Co.
"INTERNATIONAL"—International Harvester
"INTER-STATE"—Inter-State Auto Co. Co.
"INVINCIBLE SCHACHT"—Schacht M. C. Co.
"JACKSON"—Jackson Automobile Co.
"JAMES"—J. & M. Motor Car Co.
"JOHNSON"—Johnson Service Co.
"JONZ"—Jonz Auto Co.
"JUVENILE"—American M. W. & A. Co.
"KATO"—Four Traction Auto Co.
"KEARNS"—Kearns M. C. Co.
"KELLY"—Kelley M. T. Co.
"KENMORE"—Kenmore Mfg. Co.
"KEYSTONE"—Standard G. & E. Power Co.
"KISSELKAR"—Kissel M. C. Co.
"KLINE"—B. C. K. Motor Car Co.
"KNOX"—Knox Automobile Co.
"KOEHLER"—Koehler, H. J. Co.
"LA BUIRE"—La Buire Import Co., 1974
"LAMBERT"—Buckeye Mfg. Co. B'way
"LAMBERT"—Lambert Motor Truck Co.
"LANCIA" (Imported)—Hol-Tan Co.
"LANE"—Lane M. V. Co.
"LANPHER"—Lanpher Motor Buggy Co.
"LANSDEN"—Lansden Co.
"LEADER"—Columbia Electric Co.
"LEIST"—Leist Auto Mfg. Co.
"LEXINGTON"—Lexington M. C. Co.
"LION"—Lion M. C. Co.
"LOCOMOBILE"—Locomobile Co. of Am.
"LOZIER"—Lozier M. Co.
"LUITWEILER"—Luitweiler Pumping Engine
"LUVERNE"—Luverne Auto Co. Co.
"McCUE"—McCue Co.
"McFARLAN"—McFarlan M. C. Co.
"McINTYRE"—McIntyre, W. H. Co.
"MACK"—Mack Bros. M. C. Co.
"MAIS"—Mais M. T. Co.
"MANLIUS"—Manlius Motor Co.
"MARATHON"—Southern Motor Works
"MARION"—Marion Auto & Mfg. Co.
"MARMON"—Nordyke & Marmon Co.
"MARQUETTE"—Marquette M. V. Co.
"MARTIN"—Martin Carriage Works
"MATHESON"—Matheson M. C. Co.
"MAXWELL"—Maxwell-Briscoe M. Co.
"MAYTAG"—Maytag-Mason Co.
"MERCEDES"—Daimler Import Co., 452 5th
"MERCER"—Mercer Auto Co. av
"MERIT"—Waterville Tractor Co.
"METZ"—Metz Co.
"MICHIGAN"—Michigan Buggy Co.
"MICHIGAN"—Michigan M. C. Co.
"MIDDLEBY"—Middleby Auto Co.
"MIDLAND"—Midland Motor Car Co.
"MIER"—Mier Carriage & Buggy Co.
"MITCHELL"—Mitchell-Lewis M. C. Co.
"MOLINE"—Moline Automobile Co.
"MONITOR"—Monitor Automobile Works
"MOON"—Moon Motor Car Co.
"MORA"—Mora Motor Car Co.
"MORSE"—Easton Machine Co.
"MUNSING"—Munsing M. C. Co.
"NATIONAL"—National M. V. Co.
"NEVILLE"—Neville, T.
"NORWALK"—Norwalk M. C. Co.
"NYBERG"—Nyberg Auto Works
"OAKLAND"—Oakland Motor Car Co.
"OHIO"—Ohio Electric Carriage Co.
"OHIO"—Ohio M. C. Co.
"OLDSMOBILE"—Olds Motor Works
"OLIVER"—Oliver M. C. Co.
"ORSON"—Brightwood Motor Mfg. Co.
"OTTO"—Otto Gas Engine Works
"OVERLAND"—Willys-Overland Co.
"OWOSSO"—Owosso Motor Co.
"PACKARD"—Packard Motor Co.
"PAIGE-DETROIT"—Paige-Detroit M. C. Co.
"PALMER-SINGER"—Palmer & Singer Mfg. Co.
"PANHARD & LEVASSOR" (Imported)—Panhard & Levassor
"PARRY"—Parry Auto Co.
"PATTERSON"—Patterson, W. A., M. C. Co.
"PEERLESS"—Peerless M. C. Co.
"PENNSYLVANIA"—Pennsylvania Auto Motor
"PENN UNIT"—Penn Unit Car Co. Co.
"PETREL"—Petrel Motor Car Co.
"PHOENIX"—Phoenix Automobile Works
"PICKARD BROS."—Pickard Bros. M. C. Co.
"PIERCE ARROW"—Pierce Arrow Motor Co.
"PIERCE RACINE"—Pierce Eng. Co.
"PIGGINS"—Piggins Bros.
"PIONEER"—Pioneer Car Co.
"PLYMOUTH"—Plymouth M. T. Co.
"POPE-HARTFORD"—Pope Mfg. Co.
"POPE TRIBUNE"—Pope Mfg. Co.
"POWER CAR"—Power Car Auto Co.
"PRATT ELKHART"—Elkhart C. & H. Mfg.
"PREMIER"—Premier M. Mfg. Co. Co.
"PRIMO"—Primo Motor Co.
"PULLMAN"—Pullman Motor Car Co.
"PUNGS-FINCH"—Pungs-Finch A. & G. E.
"R. A. C."—Diamond Auto Co.
"R. O."—Reo M. C. Co.
"RAINIER"—Rainier Motor Co.
"RAMBLER"—Jeffrey, T. B. & Co.
"RANDOLPH"—Randolph M. C. Co.
"RANGER"—Ranger Auto Co.
"RAPID"—Rapid M. V. Co.
"RAUCH & LANG"—Rauch & Lang Carriage
"RAYFIELD"—Rayfield M. C. Co. Co.
"READING 40"—Middleby Auto Co.
"REGAL"—Regal Motor Car Co.
"RELIANCE"—Reliance M. T. Co.
"RENAULT" (Imported)—Renault-Freres Selling Branch
"REO"—Reo M. C. Co.
"REPUBLIC"—Republic M. C. Co.
"RICHMOND"—Wayne Works
"RIDER-LEWIS"—Rider-Lewis M. C. Co.
"ROADSTAR"—Henry M. C. Co.
"ROCKWELL"—New Departure Mfg. Co.
"ROGERS"—Rogers M. C. Co.
"ROSS"—Ross, L. S.
"ROYAL TOURIST"—Royal Tourist Car Co.
"S. C. A. T."—Leighton Auto Co.
"S. G. V."—Acme M. C. Co.
"S. P. A."—Conti, Cesare
"SALTER"—Salter, W. A. Motor Co.
"SAMPSON"—Sampson, Alden Mfg. Co.
"SANBERT"—Sanford-Herbert Co.
"SAURER"—Saurer Motor Co.
"SAYERS & SCOVILLE"—Sayers & Scoville
"SCHACHT"—Schacht M. C. Co. Co.
"SCHLEICHER"—Cchleicher M. V. Co.
"SCHURMEIER"—Schurmeier M. C. Co.
"SEARS"—Sears M. C. Works
"SEITZ"—Seitz A. & T. Co.
"SELDEN"—Selden Motor Vehicle Co.
"SENATOR"—Victor Auto Co.
"SEBRING"—Sebring M. C. Co.
"SHARP ARROW"—Sharp Arrow Auto Co.
"SIMPLEX"—Simplex Automobile Co.
"SIMPLICITY"—Evansville Auto Co.
"SMITH"—Smith A. Co.
"SPAULDING"—Spaulding Mfg. Co.
"SPEEDWELL"—Speedwell Motor Car Co.
"STAFFORD"—Stafford M. C. Co.
"STANDARD"—Standard G. E. Power Co.
"STANDARD SIX"—St. Louis Car Co.
"STANLEY"—Stanley M. C. Co.
"STAVER-CHICAGO"—Staver Carriage Co.
"STEARNS"—Stearns, F. B. Co.
"STERLING"—Elkhart Motor Car Co.
"STERNBERG"—Sternberg Mfg. Co.
"STEVENS-DURYEA"—Stevens-Duryea Co.
"STODDARD"—Courier Car Co.
"STODDARD-DAYTON"—Dayton M. C. Co.
"STORM QUEEN"—Kearns Motor Car Co.
"STUDEBAKER"—Studebaker Automobile Co.
"SULLIVAN"—Sullivan M. C. Co.
"SULTAN"—Sultan M. Co.
"SUPERIOR"—Superior M. C. Co.
"THOMAS"—Thomas, E. R. Motor Co.
"TORBENSEN"—Torbensen Motor Car Co.
"TRAVELLER"—Traveller Auto Co.
"TRIUMPH"—Triumph M. C. Co.
"U. S."—United States M. T. Co.
"UNIVERSAL"—Universal M. T. Co.
"UTILITY"—Stephenson M. C. Co.
"VAN"—Van Motor Car Co.
"VAN"—Van Wambeke, H. F. & Sons
"VAN DYKE"—Van Dyke M. C. Co.
"VAUGHN"—Whiteside Wheel Co.
"VAUGHN"—Wood, W. A. Auto Co.
"VEERAC"—Veerac Motor Co.
"VELIE"—Velie Motor Vehicle Co.
"VICKERS"—Vickers M. C. Co.
"VICTOR"—Victor M. T. Co.
"WALDRON"—Waldron Runabout Mfg. Co.
"WALKER BALANCE GEAR"—Auto Maintenance & Mfg. Co.
"WARREN-DETROIT"—Warren M. C. Co.
"WAVERLY"—Waverly Co.
"WEBB"—Webb Motor F. A. Co.
"WELCH"—Welch Co.
"WESCOTT"—Wescott M. C. Co.
"WHITE"—The White Co.
"WHITE STAR"—Atlanta M. C. Co.
"WHITEWATER"—Whitewater Mfg. Co.
"WHITING"—Flint Wagon Wks.
"WICHITA"—Wichita M. C. Co.
"WILCOX"—Wilcox, H. E. Motor Car Co.
"WINTON"—Winton M. C. Co.
"WISCO"—Wisconsin M. C. Co.
"WOODBURN"—Woodburn Auto Co.
"WOODS"—Woods M. V. Co.
"ZEDEL"—C. G. V. Import Co.
"ZIMMERMAN"—Zimmerman Mfg. Co.

## 226—Automobile Electrical Equipment

**GENERAL ELECTRIC CO.**, Schenectady, N. Y. (See adv. index & branch offices, end of book)

**WESTINGHOUSE ELEC. & MFG. CO.**, Pittsburg, Pa. (See adv. index & branch offices, end of book)

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## 226a—Automobile Metal Tire Cases

**MERCHANT & EVANS CO. (Inc.)** ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## 227—Automobile Parts (Hardened & Ground)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## 228—Automobile Parts & Fittings

(See also the Special Article Required; also Automobile Supplies)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

**FRASSE, PETER A. & CO., Canal** & Sullivan, New York. (See adv. index & branch offices, end of book)

**GLOBE MACHINE & STAMPING CO.** (Manufactured to Order), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

**INDUSTRIAL INSTRUMENT CO. (Automobile Gauges, Priming Cups, Oil Cups, etc.), Foxboro, Mass. (See adv. index & branch offices, end of book)**

**LUNKENHEIMER CO. (Lubricators & Fittings). General offices, Beekman & Waverly, Cincinnati, O. (See adv. index, end of book)**

**MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)**

**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

**SIMMONS, JNO. CO., 106 Centre, New** York. (See adv. index, end of book)

**VOELKNER & HARRY MFG. CO.** (Sheet Metal), 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

**WORCESTER PRESSED STEEL CO.** (Also Carriage Fittings), Worcester, Mass. (See adv. index & branch offices, end of book)

## Automobile Sheet Metal Forms

(See Stamping, Automobile)

## 228a—Automobile Steering Links

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## 229—Automobile Sub-Frames

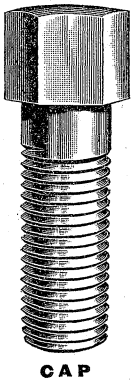
**MERCHANT & EVANS CO. (Inc.),** (Spring Motor Suspension), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

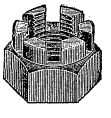
When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

## 230— Automobile Supplies

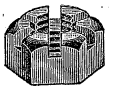
This is a list of jobbing houses only. Manufacturers of parts and supplies will be found classified under the respective names of the articles they make.

American Auto Supply Co., 88 Chambers, New York
American Distributing Co., American Trust bldg, Cleveland, O.
Angier Co., Boylston, Boston, Mass.
Atlas Auto Supply Co., 830 E 43d, Chicago, Ill.
Atlas Mfg. Co., 131 Reade, New York
Auto Equipment Co., 260 Jefferson av, Detroit, Mich.
Auto Equipment Co., 144 N Broad, Phila., Pa.
Auto Owners' Supply Depot, 1773 B'way, New York
Auto Parts Co., 517 W Jackson, Chicago, Ill.
Auto Supply Co., 1789 B'way, New York
Auto Supply & Tire Co., 143 N Market, Wichita, Kans.
Automobile Equipment Co., 260 Jefferson, Detroit, Mich.
Automobile Supply Co., 1339 Michigan av, Chicago, Ill.
Automobile Supply Co., 1326 Vine, Phila., Pa.
Auto & Aeronautic Supply Co., 2100 B'way, New York
Baum Auto Supply Depot, Omaha, Neb.
Beckley-Ralston Co., 80 Michigan av, Chicago, Ill.
Behen-Faught Motor Car Equipment Co., 3961 Olive, St. Louis, Mo.
Bennett Auto Supply Co., Sioux City, Ia.
Bi-Motor Equipment Co., 177 Portland, Boston, Mass.
Bittenbender Co., Scranton, Pa.
Bliss Supply Co., 815 Long av, Cleveland, O.
Bolton, Geo. W. & Co., 733 Woodward av, Detroit, Mich.
Boston Cycle & Sundry Co., 48 Hanover, Boston, Mass.
Broadway Auto Accessories Store, 51 W 63d, New York
Broadway Bicycle & Auto Supply Co., 60 Vesey, New York
Century Motor Supply Co., 1779 B'way, New York
Chanslor & Lyon Motor Supply Co., Los Angeles, Cal.
Chicago Tire & Supply Co., 2129 Michigan av, Chicago, Ill.
Cox Brass Mfg. Co., Albany, N. Y.
Crescent Tire Co., 1777 B'way, New York
Cut Price Auto Supply Co., 1777 B'way, New York
Dac Automobile Supply House (French), B'way & 56th, New York
Day, E. J. & Co., Oakland, Cal.
Dolson Auto Supply Co., Muncie, Ind.
Duquet, L. G., 107 W 36th, New York
Eames, Hayden (Parts & Supplies), Cleveland, Ohio
Economy Cycle Supply Co., Detroit, Mich.
Enterprise Auto Supply Co., Buffalo, N. Y.
Equitable Distributing Co., 245 Columbus av, Boston, Mass.
Excelsior Auto Supply Co., 1436 Michigan av, Chicago, Ill.
Excelsior Supply Co., 233 Randolph, Chicago, Ill.
Factory Auto Supply Co., 1229 Michigan av, Chicago, Ill.
Foote, D. E. Rubber Co., Cleveland, O.
Ford, Percy Co., 226 Columbus av, Boston, Mass.
Franco-American Auto & Supply Co., 1404 Michigan av, Chicago, Ill.
Franklin Auto & Supply Co., 321 4th, Milwaukee, Wis.
French, Howard A. & Co., Baltimore, Md.
Frey Auto Supply Co., 700 Main, Buffalo, N. Y.
Garage Supply Co., 19 Wabash av, Chicago, Ill.
General Automobile Supply Co., 1671 B'way, New York
Giannini, G. W., 437 W 42d, New York
Gifford, John A. & Son, 25 Park pl, New York
**GLOBE MACHINE & STAMPING CO.** (Parts), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Greiss, Geo. H., 1233 Vine, Phila., Pa.
Guarantee Auto Supply Co., 65 Cortlandt, New York
Hammer & Hull, 1837 Euclid av, Cleveland, O.
Hearsy-Willis Co., Indianapolis, Ind.
Herz & Co., 295 Lafayette, New York
Hocaday Motor Supply Co., Wichita, Kans.
Horton Boat Engine & Supply Co., Rochester, N. Y.
**INDUSTRIAL INSTRUMENT CO., (Automobile Gauges, Priming Cups, Oil Cups, etc.), Foxboro, Mass. (See adv. index & branch offices, end of book)**
Inter-State Auto & Supply Co., Sioux City, Ia.
Jaynes Auto Supply Co., 806 Main, Buffalo, N. Y.
Jennison Hardware Co., Bay City, Mich.
Johnson Automobile Supply Co., 4390 Olive, St. Louis, Mo.
Johnson, Iver, Sporting Goods Co., 163 Washington, Boston, Mass.
Kansas City Automobile Supply Co., Kansas City, Mo.
Kasner, A. H., 111 Chambers, New York
Keim Supply Co., 1227 Market, Phila., Pa.
Kelley-How-Thomson Co., Duluth, Minn.
La Buire Import Co., 1974 B'way, New York
Leng's, J. S. Son & Co., 33 Murray, New York
**London Auto Supply Co., 2542 Wabash av,** Chicago, Ill.
Lowe Motor Supplies Co., 1727 B'way, New York
Manhattan Electrical Supply Co., 17 Park pl, New York
Manhattan Storage Co., 334 W 44th, New York
Manufacturers' Supplies Co., Juniper & Cherry, Phila., Pa.
Mid-West Motor Supply Co., 354 W Jackson blvd, Chicago, Ill.
Miller, Chas. E., 97 Reade, New York
Milwaukee Auto Specialty Co., 134 2d, Milwaukee, Wis.
Monnier Auto Supply Co., Detroit, Mich.
Mossman, Yarnelle & Co., Fort Wayne, Ind.
Motor Car Equipment Co., 55 Warren, New York
Motor Car Supply Co., 1453 Michigan av, Chicago, Ill.
Mutual Auto Accessories Co., 1937 B'way, New York
National Auto Supply Co., 77 Chambers, New York
National Electrical Supply Co., 1330 New York av, Washington, D. C.
Neustadt Auto & Supply Co., 3948 Olive, St. Louis, Mo.



CAP



NUTS



Cap and Set Screws

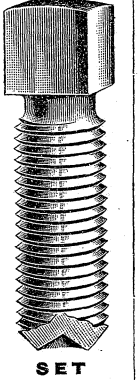
WE operate several hundred highly specialized machines for the manufacture of standard and special parts in duplicate.

¶ Orders for Standard "V" and U. S. Cap and Set Screws, A. L. A. M. Standard Plain and Castellated Nuts, also Semi-finished Castellated Nuts in U. S. Threads, and Hexagon Brass Nuts will be promptly shipped from factories and warehouses.

*Attractive quotations and deliveries on all kinds of special parts in Brass, Steel and Iron to customers' samples.*

THE NATIONAL-ACME MFG. CO., CLEVELAND, OHIO

NEW YORK, 77 White St.; BOSTON, 141 Milk St.; DETROIT, 1222 Majestic Bldg.; CHICAGO, 549 Washington Blvd.; MONTREAL, St. Elizabeth St. & G. Tr. Ry.; ATLANTA, Candler Bldg. Warehouses, New York, Chicago. Factories, Cleveland, O., Montreal, Canada


SET


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New York Auto Supply Co., 219 W 46th, New York
New York & Brooklyn Automobile Supply Co., 1717 B'way, New York
New York Sporting Goods Co., 17 Warren, New York
Nock, Geo. W. Co., 126 N 4th. Phila., Pa.
Penn Auto Supply Co., 236 N Broad, Phila., Pa.
Pettingell-Andrews Co., 156 Pearl, Boston, Mass.
Phoenix Auto Supply Co. (Inc.), 3932 Olive, St. Louis, Mo.
Post & Lester Co., Hartford, Conn.
Proctor, G. H. Supply Co., 25 Irvington, Boston, Mass.
Progressive Cycle & Automobile Supply Co., 81 Chambers, New York
Quinlan Auto Supply Co., 244 Massachusetts av. Boston, Mass.
Red Bank Garage Co., Red Bank, N. J.
Reineking Auto Supply Co., 388 Crescent, Brooklyn, N. Y.
Rice & Dayton Mfg. Co., Cedar Falls, Ia.
Richards Auto Supply Co., 1777 B'way, New York
Sackett, H. I. Electric Co., 256 Pearl, Buffalo, N. Y.
Sanford, Wm. Co., 903 N Broad, Phila., Pa.
Shain, Chas. D., 1926 B'way, New York
Sibley & Pitman, 26 Warren, New York
Smith, Chas. S. & Co., 302 N Broad, Phila., Pa.
Standard Automobile Supply Co., 1428 Michigan av. Chicago, Ill.
Stevens & Co., 373 B'way, New York
Storage Battery Supply Co., 239 E 27th, New York
Strauss, Jos. & Son. 213 Genesee, Buffalo. N. Y.
Strauss, Matthew, 707 Main. Buffalo, N. Y.
Stuart-Howland Co., Boston, Mass.
Sussfeld, Lorsch & Co. (French), 37 Maiden la, New York
Thirty-Five-Per-Cent Automobile Supply Co., 97 Chambers, New York
Truscott Boat & Auto Supply Co., St. Joseph, Mich.
Union Supply Co., Toledo, O.
United States Auto Supply & Mfg. Co., 372 Michigan av, Detroit, Mich.
Universal Auto Supply Co., 1900 B'way, New York
Universal Auto & Motor Boat Supply Co., 113 Chambers, New York
Utility Co., 636 W 44th, New York
Victor Auto Supply Mfg. Co., 42 W 43d, New York
Waite Auto Supply Co., 17 Dorrance, Providence, R. I.
Walker, E. C. & Co., 1905 Logan, Louisville, Ky.
Waterhouse & Lester Co., San Francisco, Cal.
Weiland, Chas., 147 Chambers, New York
Western Automobile Supply Co., 5848 Magnolia av, Chicago, Ill.
Western Motor Supply Co., 1018 Nicollet av, Minneapolis, Minn.
Wholesale Supply Co., 30 Church, New York
Willis, E. J. Co., 85 Chambers, New York
Wimmer, J. H. Supply Co., Detroit, Mich.
Winn, W. R., 143 Maiden la, New York
Woodwell, Jos. Co., Pittsburg, Pa.
Wyeth Hardware & Mfg. Co., St. Joseph, Mo.
Yakima Auto & Supply Co., North Yakima, Wash.
Zenith Motor Goods Co., 1839 Euclid av, Cleveland, O.

## 231—Automobile Tank & Muffler Parts

**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 232—Automobile Tanks & Mufflers

(See also Mufflers, Automobile; also Tanks)

**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 233— Automotoneers

Electric Service Supplies Co. (For Street Railway Controller), 1024 Filbert, Phila., Pa.

## Awls (Ice)

(See Picks, Ice)

## 234—Awls (Scratch, Belt, Etc.)

**ARCADE MFG. CO. (Wood Handle** & "Serpentine" Scratch), Freeport, Ill. (See adv. index, end of book)
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Billings & Spencer Co. (Belt Awls), Hartford, Conn.
Braunsdorf-Mueller Co. (Brad & Marking), Elizabeth. N. J.
Browne & Dowd Mfg. Co. (Scratch), Meriden, Conn.
**Buck Bros., Millbury, Mass.**
**BUFFUM TOOL CO. (Carpenters'** Scratch), Louisiana, Mo. (See adv. index & branch offices, end of book)
**Cronk & Carrier Mfg. Co. ("Elmore" Scratch), Elmira. N. Y.**
Ducharmes & Co., Shelburne Falls, Mass.
Eastham, Henry W. & Co., Lynn, Mass.
Elmore Tool Co. (Brad, Scratch, etc.), Hartford, Conn.
Greene, Tweed & Co. ("Lothrop's" Belt), 109 Duane, New York
Holt, G. L. (Brad Awls Only), Hartford. Conn
Hull, L. L. & Co. (Brad, Peg, etc.), Clinton, Conn.
**Jennings, C. E. & Co. (Marking), 42 Murray, New York. Works: Chester, Conn.**
**Johnson, Wm. (Hedenberg Works) (Belt, Scratch, etc.), Newark, N. J.**
Kraeuter & Co., Newark. N. J.
Manufacturers' Belt Hook Co. ("L. X." Belt), 32 S Canal, Chicago, Ill.
Manufacturers' Belt Hook Co. ("X. L." Belt), 119 N Green, Chicago, Ill.
McCarty, John. Worcester. Mass.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Millers Falls Co., 28 Warren, New York
Mixter, J. W. Saw Tool Co., Plymouth, Mass.
Mound Tool & Scraper Co. (Belt), St. Louis, Mo.
Osborne, C. S. & Co. (Saddlers, Harness. etc.), Harrison, N. J.
Peck, Stow & Wilcox Co. (Scratch), Southington, Conn.
Phoenix Hardware Mfg. Co. (Scratch Only), Homer, N. Y.
Robinson, M. W. Co. (Scratch), 79 Chambers, New York
Sargent & Co., New Haven, Conn.
Sayre, L. A. & Co. (Belt, Carpet, etc.), Newark, N. J.
Stanley Rule & Level Co. ("Hurwood" Scratch. Belt, Brad, Thong, etc.), New Britain, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
**Swan, James Co., Seymour, Conn.**
**Tuck Mfg. Co. (Marking, Brad, Scratch, Plain Belt, Eye Belt, Ice, etc.), Brockton. Mass.**
United Awl & Needle Co. (Brad, Peg, etc.), Boston, Mass.
White, L. & I. J. Co. (Scratch), Buffalo, N. Y.
Williams & Marvin Mfg. Co. (Scratch), Deep River, Conn.

## 235— Awls (Sewing)

Myers, C. A. Co. ("Myers," Lock-Stitch for Harness, Belts, Carpets, etc.), 6316 Lexington av, Chicago, Ill.

## 236— Awning Fixtures

**Hartshorn-Stewart Co., Newark, N. J.**
**Roe, Justus & Sons ("Roe's" Roller), Patchogue, N. Y.**
**SIMMONS, JOHN CO. ("Sphinx"** Noiseless), 104 Centre, New York. (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.** (Chain or Geared Roller). 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 237—Awning Fixtures (Blind)

Parker Wire Goods Co., Worcester, Mass.
Wire Goods Co. ("North"), Worcester, Mass.

## Awning Stripes

(See Cotton Duck & Canvas)

## 238—Awnings (Corrugated Steel)

(See also Cornices, Galvanized Iron)

**AMERICAN ROLLING MILL CO.,** Middletown, O. (See adv. index & branch offices, end of book)
**BERGER MFG. CO., THE, Main Office** & Works, Canton, O. (See adv. index & branch offices, end of book)
**CANTON MFG. CO., CANTON, O. (See** adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati. O., & 81 Fulton, New York. (See adv. index, end of book)
Eller Mfg. Co., Canton, O.
Gara, McGinley & Co., 23 S 17th. Phila., Pa.
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Harry, O. K. Steel Co., St. Louis, Mo.
Harry, O. K. Steel Works, Dallas, Tex.
**HYNDMAN ROOFING CO., 318 E 2d.** Cincinnati, O. (See adv. index, end of book)
Mesker, Geo. L. & Co., Evansville, Ind.
Mesker & Bro., St. Louis. Mo.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
New Orleans Roofing & Metal Works, New Orleans, La.
Newport Rolling Mill Co., Newport, Ky.
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**ST. PAUL ROOFING, CORNICE & OR-**nament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
**SMITH, F. P. WIRE & IRON W'KS.** 100 Lake, Chicago, Ill. (See adv. index, end of book)
Souther, E. E. Iron Co., St. Louis. Mo.
**Twichell Iron Co., Kansas City, Mo.**
**Wheeling Corrugating Co., Wheeling, W. Va.**

## 238a—Awnings (Steel & Cast Iron)

**BROWN BROS. MFG. CO., 22d & Campbell** av, Chicago, Ill. (See adv. index and branch offices, end of book)

## 239— Awnings (Venetian)

**WILSON, JAS. G. MFG. Co., Chief Office,** 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

## Awnings & Tents

(See Tents, Contractors')

## 240— Axe Mfrs.

American Axe & Tool Co. (Chopping, Broad, Boys, Firemans, etc.), Glassport, Pa.
**Black, John B. ("Wm. Beatty & Sons" Butchers, Killing, Wood Chopping, Boys, Post, Broad, Ship Carpenters, etc.), Chester, Pa.**
**Bradley's, G. W. Sons (Inc.) (Hand Made, Dock Chopping, Ice, Post, Fire, Broad, etc.), Westport, Conn.**
**C. A. C. Axe Co., Holbrook, Mass.**
**Colclesser Bros., El Dorado. Pa.**
Collins Co., Collinsville, Conn.
Damon Bros., Carmel, Me.
**Dunn Edge Tool Co. ("Clipper," "Black Champion," "Aroostookaxe," "Victory," "Peerless"), Oakland, Me.**
**Emerson-Stevens Mfg. Co., Oakland, Me.**
**Evansville Tool Works (Broad, Hunters', Boys', Post Hole, Firemen's, etc.), Evansville, Ind.**
**Hammond, C. & Son (Boys' & Hunters'),** Ogontz, Pa.
**Hibbard, Spencer, Bartlett & Co. ("O. V. B."), Chicago, Ill.**
Hills, Edwin (Pick), Plainville, Conn.
Kelley, B. & Co., Belfast, Me.
**Kelly Axe Mfg. Co., Charleston, W. Va.**
**King Axe Co., Oakland. Me.**
Louisville Axe & Tool Co. (Inc.), Highland Park, Ky.
**McKinnon Rockaway Axe Co., Rockaway, N. J.**
**Mack & Co. ("D. R. Barton" Broad, Chopping, Fire, Ship, etc.), Rochester, N. Y.**
**Mann Edge Tool Co., Lewistown, Pa.**
**Mann, Jas. H. (Est. of), Lewistown, Pa.**
Marble Safety Axe Co. ("Marble Safety"), Gladstone, Mich.
**Munson Co., Grand Rapids, Mich.**
North Wayne Tool Co. (Hand-made), Hallowell, Me.
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. ("Anchor"), Tucker & P. R. R., Fkd, Phila., Pa.
Rixford Mfg. Co., East Highgate, Vt.
Romer Axe Co., Dunkirk, N. Y.
Rubinow Edge Tool Works, Newark, N. J.
**Warren Axe & Tool Co. ("Sager," "Bull Dog"), Warren, Pa.**

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Weston, Thos. B., Baltimore, Md.
What Cheer Tool Co. ("What Cheer"), What Cheer, Ia.
White, L. & I. J. Co. (Broad, Coopers', Dock, Hand, Ship, Meat Splitting, Special Flooring, etc.), Buffalo, N. Y.
Witham, G. S., Caratunk, Me.

## 241— Axes (Board)

American Axe & Tool Co., Glassport, Pa.
Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Bradley, G. W. Sons, Westport, Conn.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Kelly Axe Mfg. Co., Charleston, W. Va.
Mack & Co., Rochester, N. Y.
Mann Edge Tool Co., Lewiston, Pa.
Plumb, Fayette R. ("Anchor"), Frankford, Phila., Pa.
Romer Axe Co., Dunkirk, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.

## 242— Axes (Firemen's)

American Axe & Tool Co., Glassport, Pa.
Black, Jno. B. ("Wm. Beatty & Sons"), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Collins Co., Collinsville, Conn.
Evansville Tool Co., Evansville, Ind.
Kelly Axe Mfg. Co., Charleston, W. Va.
Louisville Axe & Tool Co., Highland Park, Ky.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Plumb, Fayette R. ("Anchor"), Frankford, Phila., Pa.
Romer Axe Co., Dunkirk, N. Y.
Warren Axe & Tool Co., Warren, Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 243— Axes (Hunters')

American Axe & Tool Co., Glassport, Pa.
Collins & Co., Collinsville, Conn.
Dunn Edge Tool Co., Oakland, Me.
Evansville Tool Works, Evansville, Ind.
Marble Safety Axe Co., Gladstone, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. ("Anchor"), Frankford, Phila., Pa.
Romer Axe Co., Dunkirk, N. Y.
Rubinow Edge Tool Works ("Empire," "Republic"), Newark, N. J.
Sayre, L. A. & Co., Newark, N. J.

## 244— Axes (Ice)

American Axe & Tool Co., Glassport, Pa.
Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
**Bradley's, G. W. Sons (Inc.), Westport, Conn.**
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Gerlach, Peter Co., Cleveland, O.
**Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.**
**Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.**
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. ("Anchor"), Frankford, Phila., Pa.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Sayre, L. A. & Co., Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
Warren Axe & Tool Co., Warren, Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 245— Axes (Stone)

**Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.**
Atha Tool Co. (With & Without Teeth), Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Hammond C. & Son, Ogontz, Pa.
Hauck, Wm. J., Kansas City, Mo.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
**Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.**
Plumb, Fayette R., Frankford, Phila., Pa.
Warwood Tool Co., Wheeling, W. Va.

## 246—Axle Cutter & Screw Plate (Combined)

**Holroyd & Co. ("Dalton"), Waterford, N. Y.**

## Axle Lights (Electric)

(See Car Lighting Apparatus)

## 247— Axles (Automobile)

(See also Axles, Carriage & Wagon; also Wheels & Axles, Ball & Roller Bearing)

American Ball Bearing Co., Cleveland, O.
**Billings & Spencer Co., Hartford, Conn.**
**Carpenter Steel Co. (Nickel Chrome Steel), Reading, Pa.**
**Case Mfg. Co., Columbus, c.**
City Machine & Mfg. Co., Detroit, Mich.
Cleveland Axle Mfg. Co., Canton, O.
Consolidated Mfg. Co., Toledo, O.
**Cramp, Wm. & Sons Ship & Engine Casting Co., Beach & Ball, Phila., Pa.**
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Flanders Mfg. Co., Pontiac, Mich.
Garford Co., Elyria, O.
**Gill, P. H. & Sons Forge & Machine Works, Loraine & Otsego, Brooklyn, N. Y.**
Hess-Pontiac Spring & Axle Co., Pontiac, Mich.
Hess Spring & Axle Co. (Front & Rear), Carthage, Cincinnati, O.
**Higgins Spring & Axle Co., Racine, Wis.**
Hussey Drop Forge & Mfg. Co., Cleveland, O.
Lewis Spring & Axle Co., Jackson, Mich.
**MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa.** (See adv. index & branch offices, end of book)
Metal Products Co., Detroit, Mich.
**Mott Wheel Works, Utica, N. Y.**
Parry Mfg. Co., Indianapolis, Ind.
**Salisbury Wheel & Mfg. Co. (Wheels & Axles), Jamestown, N. Y.**
Sheldon Axle Co., Wilkes-Barre, Pa.
Smith, A. O. Co., Milwaukee, Wis.
Standard Roller Bearing Co., 50th & Lancaster av, Philadelphia, Pa.
Timken-Detroit Axle Co. (Roller Bearing, Auto & Truck), Canton, O.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Van Dorn & Dutton Co., Cleveland, O.
Weston-Mott Co., Flint, Mich.

## Axles (Ball or Roller Bearing)

**(See Wheels & Axles, Ball or Roller Bearing)**

## 248—Axles (Car & Locomotive)

(See also Axles, Mine Car; also Axles, Street Car)

American Car & Foundry Co. (Car, Locomotive & Mine Car), 915 Olive, St. Louis, Mo., & 165 B'way, New York
Baltimore Car-Wheel Co. (Car Only), Fulton Station, Baltimore, Md
Bass Foundry & Machine Co. (Iron & Steel Car, Driving, etc.), Fort Wayne, Ind.
Bethlehem Steel Co. (Nickel Steel, Car, Locomotive, etc.), South Bethlehem, Pa.
Block-Pollak Iron Co. (Car, Locomotive & Driving), Carthage, Cincinnati, O.
**Boston Forge Co. (Tender, Truck & Driving), 340 Maverick, E. B., Boston, Mass**
Cambria Steel Co. (Also Mine Car Axles, all of Forged Open-Hearth Steel), Johnstown, Pa.
**Carbon Steel Co. (Nickel Steel, Car, Locomotive, etc.), 32d & Smallman, Pittsburg, Pa.**
**Carnegie Steel Co. (Car, Locomotive, etc.), General Offices: Carnegie bldg, Pittsburg, Pa.**
**CLEVELAND CITY FORGE & IRON** Co. (Locomotive, Car, etc.), Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
Cole Mfg. Co. (Locomotive & Street Car), Lakeport, N. H.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Georgia Foundry & Mach. Co. (Street Car), Rome, Ga
**Gould Coupler Co. (Car & Locomotive), 345 5th av, New York**
Griffin Foundry & Mach. Co., McCormick bldg, Chicago, Ill.
Illinois Steel Co., Chicago, Ill.
Keystone Axle Works, Pittsburg, Pa.
**Lehigh Car Wheel & Axle Works, Catasauqua, Pa.**
Liggett Spring & Axle Co., Monongahela, Pa.
**Midvale Steel Co. (Nickel Steel, Locomotive, Tender, Truck & Car), Nicetown, Phila., Pa.**
**Otis Steel Co. (Locomotive, Car, etc.), Cleveland, O.**
**Penn Iron Co. (Hammered & Rolled), Lancaster, Pa.**
Pennsylvania Steel Co., 1421 Chestnut, Phila., Pa.; Works: Steelton, Pa.
**Pittsburg Forge & Iron Co.** (Locomotive, Car, etc.), 1003 Penna av, Pittsburg, Pa.
Portland Co., Portland, Me.
Reading Iron Co. (Driving, etc.), Reading, Pa.
Sheldon Axle Co. (Anchor Brand), Wilkes-Barre, Pa.
Sizer Forge Co. (Locomotive, Car, etc.), Buffalo, N. Y.
Standard Forgings Co., Indian Harbor, Ind.
Standard Steel Works (Car & Locomotive), Harrison bldg, Philadelphia, Pa.
Taylor Iron & Steel Co. (Car, Locomotive, etc.), High Bridge, N. J.
Titusville Forge Co., Titusville, Pa.
Tredegar Co. (Car), Richmond, Va.
Union Drawn Steel Co., Beaver Falls, Pa., & 460 Washington, New York
Western Steel Car & Foundry Co. (Freight Car Axles Only), Old Colony bldg, Chicago, Ill.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
·COMPANY·
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Willard Sons & Bell Co., 98th & Erie, Chicago, Ill.

## 249—Axles (Carriage & Wagon)

(See also Axles, Automobile)

American Axle Wks, Montgomery av, Phila., Pa.
American Ball Bearing Co. (Ball Bearing), Cleveland, O.
**American Tubular Axle Co. (Tubular Steel Wagon Axles Only), Toledo, O.**
**Ansted Spring & Axle Co., Connersville, Ind.**
**ARCHER IRON WORKS CO. (Wagon** & Lumber Truck Only), 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)
Bailey, S. R. & Co., Amesbury, Mass.
Bettendorf Axle Co. (Wagon Only), Davenport, Iowa
Chicago Screw Co. (Ball Bearing), Chicago, Ill.
Cleveland Axle Mfg. Co. (Wagon), Canton, O.
Concord Axle Co. (& Wagon, also Brown's Roller Bearing Axles), Penacook, N. H.
Crucible Steel Company of America, Pittsburg, Pa.
Drummond Mfg. Co., Louisville, Ky.
**Durant-Dort Carriage Co., Flint, Mich.**
**ELECTRIC WHEEL CO. (Wagon** Axles Only), Quincy, Ill. (See adv. index, end of book)
Gardner's, F. Sons, Carlisle, Pa.
Grant Axle & Wheel Co. (Roller Bearings), Springfield, O.
Hay, Houston Axle Co., Coshocton, O.
Hess-Pontiac Spring & Axle Co., Pontiac, Mich.
Hess Spring & Axle Co., Carthage, Cincinnati, O.
Higgins Spring & Axle Co., Racine, Wis.
**Keagy & Lear Machine Co., Coshocton, O.**
Keystone Axle Works, Pittsburg, Pa.
**Lee & Porter ("Standard" Half Patent, "Concord" Express, "Collinge" Collar, "Porter"), Buchanan, Mich.**
Liggett Spring & Axle Co., Monongahela, Pa.
Meeker Mfg. Co. (Ball Bearing), Dayton, O.
Mulholland Co. (Ball Bearing), Dunkirk, N. Y.
National Tubular Axle Co., Emigsville, Pa.
Nunning, Frank & Son, 215 W 2d, Cincinnati, Ohio
St. Louis Axle Co., St. Louis, Mo.
Scranton Axle Works, Scranton, Pa.
**Sheldon Axle Co. ("Anchor," "Dragon," "Empire," Ball Bearing), Wilkes-Barre, Pa.**
**Spears Axle Co., Wheeling, W. Va.**
Standard Roller Bearing Co., 50th & Lancaster av, Philadelphia, Pa.
Timken Roller Bearing Co. (Roller Bearing Buggy), Canton, O.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
**Weston-Mott Co., Flint, Mich.**
Wilcox, D. Mfg. Co. (Bike, Wagon, etc.), Mechanicsburg, Pa.
Wood, Smith & Co. (Inc.), Chicago Heights, Ill.
**Wurster, F. W. & Co., 375 Kent av, Brooklyn, N. Y.**

## 250—Axles (Children's Carriage)

Heartley Machine, Variety Iron & Tool Works, Toledo, O.
**Wagner, E. R. Mfg. Co., North Milwaukee, Wis.**

## 251— Axles (Mine Car)

(See also Axles, Car & Locomotive; also Wheels, Mine Car)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
**ARCHER IRON WORKS CO. (Self-Oiling), 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)**
**ATLAS CAR & MFG. CO., 1289 Marquette rd, H E, Cleveland, O.** (See adv. index, end of book)
**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)

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Eagle Foundry & Machine Co., Fort Scott, Kans.
Gustafson Mfg. Co. Chattanooga, Tenn.
**Harris, Wm. & Son Co., N S, Pittsburg, Pa.**
Irwin Foundry & Mine Car Co., Irwin, Pa.
Pennsylvania Casting & Machine Co. (& Mine Locomotive), N. S. Pittsburg, Pa.
Peteler Car Co., Minneapolis, Minn.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Q. M. S. Co., Plainfield, N. J.
Vulcan Iron Works, Wilkes-Barre, Pa.
Watt Mining Car Wheel Co., Barnesville, O.
Willard Sons & Bell Co., 98th & Erie av, Chicago, Ill.

## Axles (Roller Bearing)

**(See Wheels & Axles, Ball or Roller Bearing)**

## 251a– Axles (Steel Truck)

**LITTLE, J. R. METAL WHEEL CO.,** Quincy, Ill. (See adv. index, end of book)

## 252– Axles (Steel Car)

(See also Wheels, Street Car; also Trucks, Car, Steam & Electric)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
Baltimore Car Wheel Co., Baltimore, Md.
Bass Foundry & Machine Co., Fort Wayne, Ind.
Bethlehem Steel Co., South Bethlehem, Pa.
Brill, J. G. Co., 62nd & Woodland av, Phila., Pa.
Cambria Steel Co., Johnstown, Pa.
Carbon Steel Co., Pittsburg, Pa.
Carnegie Steel Co., Pittsburg, Pa.
**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
Eccles & Smith Co., San Francisco, Cal.
Griffin Wheel Co., McCormick bldg, Chicago, Ill.
Illinois Steel Co., Chicago, Ill.
Jones & Laughlin Steel Co. (Cold Rolled Steel), Pittsburg, Pa.
Lehigh Car Wheel & Axle Wks, Catasauqua, Pa.
McGuire-Cummings Mfg. Co. (Special Truck Bar Iron & Steel Locomotive Axles), 400 N Sangamon, Chicago, Ill.
Pennsylvania Steel Co., 1421 Chestnut, Phila., Pa.
Pittsburg Forge & Iron Co. (Hammered), Pittsburg, Pa.
St. Louis Car Co., St. Louis, Mo.
Standard Forgings Co., Railway Exchange, Chicago, Ill.
Standard Steel Wks, Harrison bldg, Phila., Pa.
Taylor Electric Truck Co., Troy, N. Y.
Union Drawn Steel Co. ("Glendon"), Beaver Falls, Pa.

## 252a–Axles (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 253–Axles & Shafts (Hollow)

**Bethlehem Steel Co., South Bethlehem, Pa.**
**American Tubular Axle Co. (Carriage & Wagon, etc.), Toledo, O.**

## 254– Azotine

Heller, Hirsch & Co. (Brokers), 62 William, New York
White, Thos. H. & Co. (Brokers), Baltimore, Md.
Wuichet Fertilizer Co., Dayton, O.

## 255– Babbitt Metal

**(See also Bearings of Various Kinds)**

### ALABAMA.

**BIRMINGHAM—Ajax Metal Co. (of the South)**

### CALIFORNIA.

SAN FRANCISCO—Finn, Jno. Metal Works.
Garratt, W. T. & Co.
Great Western Smelting & Refining Co.
Pacific Metal Works.
Selby Smelting & Lead Co.

### COLORADO.

DENVER—Bogue Lead Co.
Slack-Horner Brass Mfg. Co.
TRINIDAD—Trinidad Foundry & Machine Works

### CONNECTICUT.

BRIDGEPORT—Bridgeport Deoxidized Bronze & Metal Co.
Jacob Bros.
Sanford, David C. Co.
HARTFORD—Blake, Edwin J.
NEW HAVEN—Graham, Jas. & Co.

### ILLINOIS.

AURORA—Aurora Metal Co. (Brand "R. R.")
CAIRO—Reed, Joseph B.
CHICAGO—Birkenstein, S. & Sons, 377 W Ontario
Blatchford, E. W. Co., 230 N Clinton
**CARPENTER, GEO. B. & CO., 202** S Water. (See adv. index, end of book)
**Channon, H. Co. ("Quoke"), 32 Market**
Chicago Bearing Metal Co., 193 Michigan av
Chicago Journal Bearing Co., 519 W Van Buren
**FAIRBANKS, MORSE & CO.** ("Femco"), 4811 Wabash av. (See adv. index, end of book)
Great Western Smelting & Refining Co., 41st & Wallace
Hewitt Mfg. Co., 303 Railway Ex.
Illinois Smelting & Refining Works, 410 N Peoria
Imperial Brass Mfg. Co., 454 S Jefferson
Kramer, H. & Co. (In Pig), 730 S Canal
**MERCHANT & EVANS CO. (Inc.),** (of Philadelphia, Pa.), 113 N Sheldon. **(See adv. index, end of book)**
Monarch Metal Co., 1119 S Lincoln
Paragon Metal Co., 3050 S Ashland av
**Raymond Lead Co. (Aluminum, Copper,** etc.), 735 W Washtenaw av
Ryan, J. J. & Co., 105 S Jefferson
**RYERSON, JOS. T. & SON ("Glyco,"** Bearing Metal & Skeleton Bearing Construction), 2558 W 16th. (See adv. index, end of book)
Standard Metal Mfg. Co., 122 Monroe
Staplin & Smith ("S. & S.," "G. P.") 359 Michigan
U. S. Reduction Co. ("Advance") 315 Dearborn
West Side Metal Refining Co., 519 Maxwell

### INDIANA.

MISHAWAKA—Dodge Mfg. Co.

### KENTUCKY.

LOUISVILLE—Belknap Hdw. & Mfg. Co.

### LOUISIANA.

**NEW ORLEANS—Nelson, A. J. Mfg. Co. (Ltd.), 1001 Howard av**
**New Orleans Roofing & Metal Works, 926 Lafayette**

### MARYLAND.

**BALTIMORE—Farrell, Edward P., 1412 Philpot**
Schultz, A. & Co. ("Eureka"), 1015 E Fayette
**MERCHANT & EVANS CO. (Inc.) (of Phila., Pa.), 232 St. Paul. (See adv. index, end of book)**

### MASSACHUSETTS.

BOSTON—Blaney, Cyril C., 280 Devonshire
Chadwick-Boston Lead Co., 162 Congress
Eastern Metal & Refining Co., 66 Roland, Chsn.
Herrick Co., 49 Broad
National Lead Co. (of Mass.), 126 State
Star Refining Co., 50 State
FITCHBURG—Hardy, William A. & Sons Co.
Welch, E. J. & Co. ("S. S." Metal)
LOWELL—Nichols Foundry Co.

### MICHIGAN.

DETROIT—Bostwick, Jas. M. C., 372 Abbott
Mogul Metal Co.
Muzzy-Lyon Co. ("Mogul"), Mogul Metal Co.
National-Fulton Brass Mfg. Co., 22 Brush
National Lead Co. (of New York), 81 W Woodbridge
Wing, J. T. & Co., 19 Woodward av
GRAND RAPIDS — Hayden, J. M. & Co. ("Globe")
KALAMAZOO—**NEW ERA MFG. CO.** ("New Era" White Bronze). (See adv. index, end of book)
LAURIUM—Superior Brass Foundry ("C. & H.")

### MINNESOTA.

**DULUTH—Duluth Brass Works Co. (Round & Hexagon Stick Brass a Specialty)**
ST. PAUL—Northwestern Shot & Lead Works.

### MISSOURI.

KANSAS CITY—**MERCHANT & EVANS** Co. (Inc.) (of Phila., Pa.), 2008 Baltimore av. (See adv. index, end of book)
Rogers Metal Works
ST. LOUIS—Gilbert, A. & Sons Brass Foundry ("Jovian," "Velox")
Hiertz, Theo. Metal Co. ("Nonpariel"), 10th & Poepping
More-Jones Brass & Metal Co. ("Hoo-Hoo," "Universal," "Motor," "Crescent," "Rex," "Regent"), 3144 N B'way
National Lead Co., 1001 Clark av
Rumsey, L. M. Mfg. Co., 806 N 2d
Street, J. D. & Co. ("Majestic," "Horse Shoe," "Gem," "Giant"), 809 N 2d
Zelnicker, Walter A. Supply Co. ("Zelnicker")

### NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co., ("Perfection")
BLOOMFIELD—Hudson Rolling Mill Co. ("Signal" Nickel Hardened Deoxidized Babbitt)
GLEN RIDGE—Benson, H. K. & F. S. ("B. & M.")
HARRISON—**WALSH'S SONS & CO.** (See adv. index, end of book)
HOBOKEN—Lehman Bros.
JERSEY CITY—Brady Brass Co. ("Cyprus")
Magnus Metal Co., Brunswick c 9th
Williams, E. A. & Son, 105 Plymouth
PERTH AMBOY—Hoyt Metal Co. (of St. Louis, Mo.)
RIVERSIDE—Riverside Metal Co.

### NEW YORK.

BUFFALO—**LUMEN BEARING CO. ("Lotus" & "Yankee" Brands).** (See adv. index, end of book)
Runskool Metal Co.

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Fidelity Metal Co., 28 Dobbin
**MERCHANT & EVANS CO. (Inc.)** (of Phila., Pa.), 584 Flushing av. (See adv. index, end of book)

#### Boroughs of Manhattan & Bronx.

NEW YORK—Allan, A. & Son ("Allan's" Red Anti-Friction Metal), 486 Greenwich
American Metal Co., 52 B'way
American Smelting & Refining Co., 71 B'way
Columbia Smelting & Refining Works, 365 West
Eagle Smelting & Refining Wks, 734 E 14th
Fahrig Metal Co. ("Fahrig" Anti-Friction), 316 Hudson
Leddell-Bigelow Co. ("Bee"), 18 B'way
Lissberger, B. & Co., 738 E 14th
Lubricating Metal Co. ("Noheet"), 2 Rector
Magnolia Metal Co. ("Adamant," "Defender" & "Mystic"), 113 Bank
Magnus Metal Co., 111 B'way
**MERCHANT & EVANS CO. (Inc.)** (of Phila., Pa.), 242 Water. (See adv. index, end of book)
Morris, E. P. Co. ("Delos"), 90 West
**Nassau Smelting & Refining Works ("Edison" & "Monarch"), 603 W 29th**
National Lead Co. ("Phoenix"), 111 B'way
Pittsburg White Metal Co. (of Pittsburg, Pa.), 1 Madison av
**Post, E. L. & Co. ("Post's Zero," Motor Metal), 50 Cliff**
Wildes', Thomas Son ("Excelsior" & "Semper"), 14 Dover

#### (End of New York City)

ROCHESTER—Clum & Atkinson ("Plata" White Brass, "Superior," "Genuine," "Standard" & "Gas Engine")
Genesee Metal Co.
Hazard, Coates & Bennett Co.
Rochester Lead Works
Wray, Henry & Son
SCHENECTADY—**GENERAL ELECTRIC** Co. (See adv. index & branch offices, of book)
SYRACUSE—Empire Metal Co.

### OHIO.

CINCINNATI—American Smelting & Refining Co., W 9th & Freeman
Cincinnati Metal Refining Co., Dayton & McLean av
Edna Brass Mfg. Co. ("Porteous," Grafite)
National Lead Co. (of New York)
Wolff Metal Co., 1803 John
CLEVELAND—Metal Sales Co. ("Renown"), National Lead Co. Citizens' bldg
**COLUMBUS—Ohio Metal Co. ("Hy-lo")**
DAYTON—Buckeye Iron & Brass Works (High Grade)
LORAIN—Vanrot Metal Co.
MANSFIELD—Ohio Brass Co.
YOUNGSTOWN—Falcon Bronze Co.

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### OREGON.

PORTLAND—Pacific Metal Works

### PENNSYLVANIA.

CHESTER—Crown Smelting Co.
**CONNELSVILLE—Riverside Metal Refining Co.**
ERIE—Erie White Metal Co.
NEW BRIGHTON—Brighton Brass & Bronze Co.
NORTH EAST — Eureka Tempered Copper Works ("Eureka")
PHILADELPHIA—Ajax Metal Co., 48 Richm'd
Bond, Chas. Co., 518 Arch.
**Delaware Metal Refinery, 1036 S 18th**
**Goldstein's, L. Sons, 1038 N Front**
**Hagstoz, T. B. Co. (Ltd.), 709 Sansom**
Lukens, Thos. F. Metal Co. ("Lukens," "Viking," "Queen Bee"), 238 N 4th
McHatton Smelting & Refining Co., 1500 Washington av
**MERCHANT & EVANS CO. (Inc.)** ("Universal," "Iridium"), 517 Arch. (See adv. index, end of book)
North American Smelting Co., 9th & Thompson
**Pearl Smelting & Refining Works, 2507 E Cumberland**
**Peerless Smelting & Refining Co. ("Rainbow" Linotype, Monotype, Stereotype, Electrotype & Other Metals), Allegheny av & Richmond**
**Penn Smelting & Refining Co., 906 Filbert**
Phillips, F. R. & Sons Co. ("Zero" & "Motor"), Penna bldg
**Reeves, Paul S. & Son, 1415 Catharine**
Rosenthal's, Joseph Sons (Inc.), 190 Berks
Star Smelting & Refining Works, 134 Washington av
**Taylor, N. & G. Co., Mariner & Merchants bldg**
U. S. Smelting Works, 1613 Spring Garden
White & Bro., 1505 E Montgomery av
Woodfall Bros., 1105 Fairmont av
PITTSBURG—Cadman, A. W. Mfg. Co. "Acorn" Aluminum), 2814 Smallman
Damascus Bronze Co. ("Damascus"), North Side
Keystone Bronze Co.
Kroenert Smelting & Refining Co.
**LAWRENCEVILLE BRONZE CO.,** Penn av & 31st. (See adv. index, end of book)
National Lead & Oil Co. (of Pa.)
**Pittsburg Brass Mfg. Co.** ("Mansfield"), 3153 Penn av
**PITTSBURGH GAGE & SUPPLY** Co. ("Paramount," "Copper Alloy" & "Helmet"), 30th & Liberty av. (See adv. index, end of book)
Pittsburg White Metal Co., 3116 Penn av
Vanadium Metals Co., Frick bldg
**WESTINGHOUSE ELECTRIC &** Mfg. Co., Union Bank bldg. (See adv. index, end of book)
PITTSTON—**EXETER MACHINE WKS.**
READING—Excelsior Brass Works
SCRANTON—Everhart Brass Works.

### TENNESSEE.

CHATTANOOGA—Frictionless Metal Co.
MEMPHIS—Lee Bros.

### VIRGINIA.

RICHMOND—Glacier Metal Co.

### WASHINGTON.

SEATTLE—Finn, Jno. Metal Works
TACOMA—Puget Sound Metal Works

### WEST VIRGINIA.

WHEELING—Wheeling Metal & Mfg. Co.

### WISCONSIN.

APPLETON—Carson-Rowell & Co. (Crucible Copper Carbon Metals)
MILWAUKEE—Milwaukee Tack Co. ("Misco")
Progressive Metal & Refining Co.

## Babbitt Metal Melters

(See Furnaces, Babbitt Melting)

## 256— Badges (Mechanics')

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 257— Badges & Numbers

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl., New York. (See adv. index, end of book)
Blackington, V. H. & Co., Attleboro Falls, Mass.
**Childs, S. D. & Co., 200 Clark, Chicago, Ill.**
Hanson, C. H., 44 Clark, Chicago, Ill.
**International Register Co. ("Heeren"), 625 W Jackson boul, Chicago, Ill.**
**Koch, Gustav & Co., 64 Dearborn, Chicago, Ill.**
**MEYERS, FRED J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Mulhaupt, F. Joseph, Lafayette, Ind.
**NIAGARA FALLS METAL STAMP**ing Works, Niagara Falls, N. Y. (See adv. index, end of boak)
Recording Register & Fare Box Co., New Haven, Conn.
Robbins, Jno. Mfg. Co., Boston, Mass.
Tenney, J. F. Co., 210 S Water, Chicago, Ill.
Wilcox, W. W. & Co., 325 Dearborn, Chicago, Ill.
Woodman, R. Mfg. & Supply Co., Boston, Mass.

## Baggage Checks

(See Checks, Baggage; also Checks & Check Blanks, Brass)

## 258— Bags (Clothes Pin)

Chicago Asbestos Table Mat Co., 207 Loomis, chicago, Ill.
Van Handy Mfg. Co., South Orange, N. J.

## 259— Bags (Coal & Coke)

Ballou Mfg. Co. (& Canvas Baskets), Belding, Mich.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Coye, Charles A., Grand Rapids, Mich.
Hettrick Bros. Co., Toledo, O.
Lane, W. T. & Bro. (Canvas), Poughkeepsie, N. Y.
Meyer, L. M. & Co., Springfield, Mass.
Morris & Co. (Canvas), Groveville, N. J.
Phillips, Thos. Co., Akron, O.

## 260— Bags (Filter)

Bibb Manufacturing Co., Macon, Ga.
Brooklyn Filter Bag Co., 200 Diamond, Brooklyn, N. Y.
Milwaukee Bag Co., Milwaukee, Wis.

## 261— Bags (Gas Engine)

Hodgman Rubber Co., 806 B'way, New York
Morgan & Wright (Inc.), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
Quaker City Rubber Co., 629 Market, Phila., Pa.

## 261a— Bags (Hat)

**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 262— Bags (Leather)

Boyle, Jno. & Co. (Inc.), (For Railroad Service etc.), 112 Duane, New York

## 263— Bags (Mail)

Boyle, Jno. & Co. (Inc.), 112 Duane, New York

## 264— Bags (Paper)

Bear River Paper & Bag Co. (Sugar Bags, Nail Sacks, etc.), Petoskey, Mich.
Chatfield & Woods Co. (For Cement, Flour, Lime, etc.), Cincinnati, O.
Chicago-Detroit Bag Co., Marquette bldg., Chicago, Ill.
Cleveland-Akron Bag Co., Cleveland, O.
**Columbia Paper Bag Co., Baltimore, Md.**
Continental Paper Bag Co., 17 Battery pl, New York
Cramer-Force Co., Rochester, N. Y.
Dien & Wing Paper Co. (Bags, Flour Sacks, etc.), Cincinnati, O.
Fulton Bag Co. (Nail, etc.), Fulton, N. Y.
Jaite Co., Boston, O.
Milwaukee Bag Co. (For Cement, Lime, etc.), Milwaukee, Wis.
Morgan & Hamilton Co., Nashville, Tenn.
**Paper Mills Co., Baltimore, Md.**
Philadelphia Bag Co. (Flour & Meal), Water & Tasker, Phila., Pa.
**Phillips, Thos. Co. (Heavy for Flour, Feed, Cement, Lime & Plaster), Akron, O.**
Taggart Bros. Co. (Cement, Flour, etc.), Watertown, N. Y.
Tartentum Paper Mills (For Cement, Lime, etc.), Pittsburg, Pa.
Union Paper Mill Co. (All Rope Buckskin Cement), Monongahela City, Pa.
Urschel-Bates Valve Bag Co. (For Cement, Lime, etc.), Toledo, O.
West Jersey Paper Mfg. Co. (For Cement, Lime, etc.), Camden, N. J.

## 265— Bags (Second Hand)

Burnett Bag & Burlap Co., Baltimore, Md.
Fulton Bag & Cotton Mills, 236 Spring, New York
Hofeller, Theo. & Co. (Burlap), Buffalo, N. Y.
Leonardis, Peter & Sons, Newark, N. J.
Lichtman, S. & Son (Bags & Burlap), Buffalo, N. Y.
Iroquois Bag Co. (Bags & Burlap), Buffalo,
Oppenheimer & Co., Buffalo, N. Y. N. Y.

## 266— Bags (Striking)

Chicago Sporting Goods Mfg. Co. ("Ratsch-Peerless" Leather), Fulton & May, Chicago, Ill.
Cleveland Rubber Works (Rubber), Cleveland O.
Faultless Rubber Co. (Rubber), Ashland, O.
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.) (Rubber), Detroit, Mich.

## 266a— Bags (Tamping)

**du PONT, E. I., de NEMOURS POW**der Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 267— Bags (Tool)

Anderson, W. H. Tool Co. (Plumbers', etc.), Detroit, Mich.
Aschenbach, H., 71 Warren, New York
Beekman Sanitary Specialty Co. (Plumbers'), 312 W 34th, New York
**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Dicke Tool Co., Downers Grove, Ill.
Excelsior Bag & Mfg. Co. ("Excelsior"), Troy, N. Y.
Famous Mfg. Co. (Plumbers'), Grand Rapids, Mich
Galewski, Adolph, 323 B'way, New York
Humphrey's, R. A. Sons, 1021 Callowhill, Phila., Pa.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Marshalltown Trowel Co., Marshalltown, Ia.


# AMERICAN RAILWAY SUPPLY CO.

26 PARK PLACE, NEW YORK CITY

**Manufacturers of BADGES OF EVERY DESCRIPTION**

Baggage, Key, Plantation, Factory, Time and Trade Checks, Hotel Key Tags, Metal Tokens, Badges, Medals and Name Plates, House Numbers, Letters and Figures, Metal Fare Tickets, Gas Meter Labels, Conductors' Ticket Punches, Baggage Check Straps, Railroad Ticket Cases, Dating Stamps and Uniform Caps.


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Osborne, C. S. & Co., Harrison, N. J.
Peddie, T. B. & Co., Newark, N. J.
Plumbers' Sundries Co. (Plumbers'), 442 Orleans, Chicago, Ill.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 268— Bags (Tool Linemen's)

Dicke Tool Co., Downers Grove, Ill.
Galewski, Adolph, 323 B'way, New York
Humphrey's, R. A. Sons, 1021 Callowhill, Phila., Pa.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Peddie, T. B. & Co., Newark, N. J.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## Bags (Traveling)

(See Traveling Bags & Suit Cases)

## 269— Bags (Valve)

Urschel-Bates Valve Bag Co. ("Twenty-first Century," Open-mouth & Valve Bags), Toledo, O.

## 270— Bags & Bagging

(Those Marked with a (†) Dagger Make Bagging also)

Adams Bag Co. (Flour Only), Cleveland, O.
†American Mfg. Co. (Jute Bagging), 63 Wall, New York
Ames, Harris, Neville Co., San Francisco, Cal.
†Androscoggin Mills (Grain, etc.), Lewiston, Me.
Bates Mfg. Co. (Grain), Lewiston, Me.
Bemis Bros. Bag Co. (Jute & Duck, etc.), St. Louis, Mo.
Brown, H. S. & Co. (Jute & Cloth), Bridgeport, Conn.
**Buffalo Bag Co., Buffalo, N. Y.**
California Cotton Mills Co. (Cotton Bags), Oakland, Cal.
†Charleston Bagging Mfg. Co. (Cotton & Jute Bagging), Charleston, S. C.
Chase, H. & L. Bag Co. (Bags), 18 N Main, St. Louis, Mo.
**Chelsea Fibre Mills (Seamless Bags), 33 Union** sq, W, New York
Cherokee Falls Mfg. Co. (Seamless Grain), Cherokee Falls, S. C.
Chicago-Detroit Bag Co. (Jute, Cotton, etc.), Marquette bldg, Chicago, Ill.
Cincinnati Bag Co. (Cotton Seamless & Burlap for own use only), Cincinnati, O.
**Cleveland-Akron Bag Co., Cleveland, O.**
Collins Bag Co. (Jute & Cotton), 54 Franklin, New York
†Columbia Cotton Mill Co. (Seamless Bags & Bagging), Columbia, Tenn
Columbia Paper Bag Co. (Paper Only), Baltimore, Md.
**Consolidated Cotton Duck Co. (Seamless Grain etc.), Baltimore, Md.**
Continental Paper Bag Co., 17 Battery pl, New York
†Dana Warp Mills (Grain Bags), Westbrook, Me.
Delta Bag Co., New Orleans, La.
Detroit Bag Co. (Burlap, Paper, Twine), Detroit, Mich.
Eagle Cotton Mills Co. (Cotton), Madison, Ind.
Empire State Bag Co. (Flax & Jute Bags & Bagging), 742 Wythe av, Brooklyn, N. Y.
Freedlander, Julius & Co. (Cotton Bagging), Columbus, Ga.
Fulton Bag & Burlap Co., St. Louis, Mo.
†Fulton Bag & Cotton Mills (Bags & Bagging), Atlanta, Ga.
Gaylord Bros. (Cloth Coin), Syracuse, N. Y.
†Grimond, J. & A. D., Ltd. (H. N. Gildea, Agt., Jute Burlap Bagging), 309 B'way, New York
**Golden Belt Mfg. Co. (Tobacco Bags, etc.), Durham, N. C.**
†Gulf Bag Co. (Burlap), New Orleans, La.
Halsted, E. S. & Co., 64 Pearl, New York
Hardwood Mfg. Co., Minneapolis, Minn.
†Harmony Mills (Grain & Bagging, etc.), Cohoes, N. Y.
Hettrick Bros. Co. (Cotton), Toledo, O.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
**King Mfg. Co. (Cotton, Burlap, etc.), Front & Main, Cincinnati, O.**
Kent, Percy Co., 90 Front, New York
Kurtz Bag Co., 17 South, New York
Lane, J. H. & Co., 110 Worth, New York
Little Rock Tent & Awning Co. (Cotton Picking), Little Rock, Ark.
**Ludlow Mfg. Associates (Jute Bagging for Baling Cotton), Boston, Mass.**
†Mente & Co., New Orleans, La.
**Millhiser Bag Co., Richmond, Va.**
Milwaukee Bag Co. (Cotton & Jute, Sugar & Cement Bags, Flour Sacks & Burlaps), Milwaukee, Wis.
**Monville, Gilles & Co. (Burlap), 127 Catherine,** Philadelphia, Pa.
†Naomi, Falls Mfg. Co. (Seamless Grain, Salt. etc.), Randleman, N. C.
Neahr, M. J. & Co., 16th & Dearborn, Chicago, Ill.
Noon, W. C. Bag Co. (Grain, etc.), Portland, Ore.
Paper Mills Co. (Paper), Baltimore, Md.
†Parsons, C. H. Co., 78 Water, New York
Peru Bagging Mfg. Co. (Jute Bagging), Peru, Ind.
Philadelphia Bag Co. (Burlap & Cotton), Walter & Tasker, Phila., Pa.
Ray, Edgar K. (Est. of) (Seamless), Woonsocket, R. I
Raymond Bag Co. (Cotton), Cincinnati, O.
Reach, Herman & Co. (Inc.) (Burlap Bags), Peoria & Kinzie, Chicago, Ill.
Riverside Mills (Cotton), Augusta, Ga.
Royal Bag & Yarn Mfg. Co. (Seamless & Flour Bags), Charleston, S. C.
Royal River Mfg. Co. (Cotton Grain Bags), Yarmouth, Me.
Scott, Jas. & Son (Burlap), 346 B'way, New York
St. Louis Bag & Burlap Co. (Jute), 307 N Main, St. Louis, Mo.
Smith, M. D. & H. L. Co., Dalton, Ga.
†Stark Mills (Grain Bags; also Bagging, etc.), Manchester, N. H.
Taggart Bros. Co. (Paper, Cement & Flour), Watertown, N. Y.
Tarentum Paper Mills (Cement Paper Bags), Pittsburg, Pa. Mills, Tarentum, Pa.
**Texas Bag & Fibre Co., Houston, Texas**
Tombigbee Cotton Mills (Cotton), Columbus, Miss.
Urschel-Bates Valve Bag Co. (For Lime, Cement, Plaster, Feed etc.), Toledo, O.
Walker, J. S. & Co., Louisville, Ky.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
†Willard Bag & Mfg. Co. (Burlap & Cotton Bags & Bagging), Wilmington, N. C.
Young & Metzner, Long Island City, N. Y.

## 271— Bailers (Mine)

Imperial Iron Works, Duluth, Minn.

## 272— Bails (Universal)

Albree, Chester B. Iron Works, N. S. Pittsburg, Pa.

## 273— Bakers (Potato)

Springfield Specialty ("Handi-Knick"), Springfield, Mass.

## 274—Balances (Assay & Analytical)

Ainsworth, Wm. & Sons, Denver, Colo.
**Bausch & Lomb Optical Co., Rochester, N. Y.**
**Denver Balance Co., Denver, Colo.**
Eimer & Amend, 205 3d av, New York
Fairbanks Co., 186 Lafayette, New York
Heil, Henry Chemical Co., St. Louis, Mo.
Kohlbusch, Herman, 194 B'way, New York
**QUEEN & CO. (Inc.), 1211 Arch,** Philadelphia, Pa. (See adv. index, end of book)
**Salt Lake Hardware Co. ("Keller"), Salt Lake City, Utah**
Sargent, E. H. & Co., 143 Lake, Chicago, Ill.
Thompson Balance Co., Denver, Colo.
Torsion Balance Co. ("Torsion"), 92 Reade, New York
Troemner, Henry, 911 Arch, Phila., Pa.
Voland & Sons, New Rochelle, N. Y.

## 275— Balances (Spring)

**American Cutlery Co., 193 Mather, Chicago, Ill.**
**Bridgeport Brass Co., Bridgeport, Conn.**
Chatillon, Jno. & Sons, 85 Cliff, New York
Forschner, Chas. & Sons, 206 E 19th, New York
Landers, Frary & Clark, New Britain, Conn.
Peck Stow & Wilcox Co., Southington, Conn.
Pelouze Scale & Mfg. Co., 118 W Jackson boul, Chicago, Ill.
Sargent & Co., New Haven, Conn.

## 277—Ballast Loaders & Unloaders

**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Goodwin Car Co. ("Goodwin" Unloaders), 17 Battery pl, New York
**LESCHEN, A. & SONS ROPE CO.,** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO. (Unloaders** Only), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
Marion Shovel & Dredge Co., Marion, O.
**MARION STEAM SHOVEL CO., West** Center, Marion, O. (See adv. index, end of book)
Rodger Ballast Car Co. ("Hart" Unloaders), Railway Exchange, Chicago, Ill.
Vulcan Iron Works Co., Toledo, O.

## Ballast (Railroad)

(See Stone, Crushed)

## 278— Balloons (Rubber)

**Faultless Rubber Co., Ashland, O.**

## 279— Balls (Ball Mill)

**ALLIS-CHALMERS CO. (Forged** Steel), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## Balls (Basket)

(See firms in Balls, Foot, with the word Leather following their names)

## 280— Balls (Bowling)

**American Hard Rubber Co. ("A. H. R." Hard Rubber), 9 Mercer, New York**
Estes, E. B. & Sons (Wood), 74 Warren, New
Reinschmidt, Peter, Rochester, N. Y. York
**Rothberg, S. & Co. (Composition), 506 Cherry, New York**
Smith, Edw. H., 50 Ann, New York

## 281— Balls (Brass)

American Ball Co., Providence, R. I.
Auburn Ball Bearing Co., Auburn, N. Y.
Benedick, Geo., Grand Haven, Mich.
Darling Pump & Mfg. Co., Williamsport, Pa.
Diamond Mfg. Co., Detroit, Mich.
Draper Mfg. Co. (Solid or Hollow, for Valves, etc.), Port Huron, Mich.
Excelsior Steel Ball Co., Buffalo, N. Y.
**Grant-Hoover Ball Co. (Also Bronze), Merchantville, N. J.**
Hough, Chas. N., Mfg. Co., Franklin, Pa.
Jones Ball Co. (Also Bronze), Arlington Heights, Mass.
**LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**McDonald, A. Y. Mfg. Co., Dubuque, Ia.**
**Midland Brass Works, Fort Worth, Texas**
Pressed Steel Mfg. Co., The Bourse, Phila., Pa.
**Standard Roller Bearing Co., 50th & Lancaster, Phila., Pa.**

## 282— Balls (Croquet)

**American Hard Rubber Co. (Hard Rubber), 9 Mercer, New York**
**Smith, Edw. H., 50 Ann, New York**

## 283— Balls (Fall Line)

**DOBBIE FOUNDRY & MACHINE CO.** (Plain & With Hook), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago. Ill. (See adv. index, end of book)

## 284— Balls (Foot)

Chicago Sporting Goods Mfg. Co. (Leather), 1115 Fulton, Chicago, Ill.
Draper & Maynard Co. (Leather), Plymouth, N. H.
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
Goodyear Rubber Co. (Rubber), 787 B'way, New York
Goodyear Tire & Rubber Co. (Rubber), Akron, O.
Goodyear's India Rubber Glove Mfg. Co., 503 B'way, New York

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Hodgman Rubber Co. (Rubber), 806 B'way, New York
Reach, A. J. Co. (Leather), Tulip & Palmer, Phila., Pa.
Revere Rubber Co. (Rubber), Boston, Mass.
Spalding, A. G. & Bros. (Leather), 126 Nassau, New York
Tyler Rubber Co. (Rubber), Andover, Mass.
Victor Sporting Goods Co. (Leather), Springfield, Mass.
Wright & Ditson (Inc.) (Leather), Boston, Mass.

## 285— Balls (Fuller)

**Canfield, H. O. Co., Bridgeport, Conn.**
Combination Rubber & Belting Co., Bloomfield, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Jenkins Bros., 82 White, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index, end of book)
Schacht Rubber Mfg. Co., Huntington, Ind.

## 286— Balls (Glass)

Bache, Semon & Co., West & Hubert, New York

## 287— Balls (Golf)

Davidson Rubber Co., Boston, Mass.
**GOODRICH, B. F. CO. ("Haskell Whiz"),** Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.

## 288— Balls (Hand Ball Court)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)

## 289— Balls (Hollow)

Draper Mfg. Co. (Brass, for Valves, etc.), Port Huron, Mich.
Johnston & Sharp Mfg. Co. (Crucible Steel, Self-Lubricating), Ottumwa, Ia.
Waterbury Brass Co. (Large), Waterbury, Conn.

## 290— Balls (Ox)

Humason & Beckley Mfg. Co., New Britain, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Woodruff, W. W. & Sons Co., Mt. Carmel, Conn.

## 291— Balls (Pipe & Flue)

**Adams, S. Jarvis Co., Etna & 14th, Pittsburg, Pa.**
Cyclops Foundry Co., Pittsburg, Pa. **Pa.**
Interstate Foundry Co., Cleveland, O.

## 292— Balls (Pipe & Tank)

Youngstown Bronze & Iron Foundry Co. (Pipe), Youngstown, O.

## 293— Balls (Porcelain)

Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

## 294— Balls (Rubber)

Baumann Rubber Co., New Haven, Conn.
Clifton Mfg. Co., Boston, Mass.
**Combination Rubber & Belting Co., Bloomfield, N. J.**
Davol Rubber Co., Providence, R. I.
Faultless Rubber Co., Ashland, O.
**HOME RUBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Lambertville Rubber Co., Lambertville, N. J.

## 295— Balls (Steel)

**ABBOTT BALL CO., Hartford, Conn.** (See adv. index, end of book)
American Ball Bearing Co., Cleveland, O.
American Ball Co., Providence, R. I.
Atlas Ball Co. ("Atlas"), Merchantville, N. J.
Auburn Ball Bearing Co., Rochester, N. Y.
Boker, Hermann & Co. (Imported), 101 Duane, New York
Brecher, E. A. & Co., 88 Center, New York
Darling Pump & Mfg. Co., Williamsport, Pa.
Excelsior Steel Ball Co., Buffalo, N. Y.
Flanders Mfg. Co., Pontiac, Mich.
**FRASSE, PETER A. & CO. ("Diamond"),** Canal & Sullivan, New York. (See adv. index & branch offices, end of book)
**Grant-Hoover Ball Co. (Also Cast Iron), Merchantville, N. J.**
Hess-Bright Mfg. Co., 21st & Fairmount av, Phila., Pa.
**Jones Ball Co., Arlington Heights, Mass.**
Livermore, H. F. Co., Boston, Mass.
New Departure Mfg. Co., Bristol, Conn.
Pressed Steel Mfg. Co., Land Title bldg. Phila., Pa.
**Standard Roller Bearing Co., 50th & Lancaster, Phila., Pa.**
Transue & Williams Co. (From 2 inches up), Alliance, O.
**Western Tool & Forge Co. (Forged), Brackenridge, Pa.**
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 296—Balls (Steel, Billiard & Bowling)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 297—Balls (Steel for Polishing & Burnishing)

**ABBOTT BALL CO. ("Abbott"), Hartford,** Conn. (See adv. index, end of book)
**GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)**

## 298— Balls (Tennis)

**GOODRICH, B. F. CO. ("Goodrich"),** Akron, O. (See adv. index & branch offices, end of book)
**PENNSYLVANIA RUBBER CO. (Hand-Made Championship),** Jeannette, Pa. (See adv. index & branch offices, end of book)
Wright & Ditson (Inc.), Boston, Mass.

## 299—Balls (Tumbling Barrel)

**ABBOTT BALL CO., Hartford, Conn.** (See adv. index, end of book)

## 300— Balls (Wood)

**American Enamel Co. (Plain & Enameled), Providence, R. I.**
Estes, E. B. & Sons, New York
Hyde-Murphy Co., Ridgway, Pa.
**McMillan's, W. H. Sons (Ten Pin), 153 South, New York**
Novelty Turning Co., Norway, Me.
Rowe, Henry Mfg. Co., Newaygo, Mich.

## 300a— Balls (Zinc)

**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O., & 81 Fulton, New York. (See adv. index, end of book)**
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

## 301— Bands (Air Brake Hose)

Dayton Malleable Iron Co., Dayton, O.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.

## 302— Bands (Boom)

Tiebout, W. & J., 118 Chambers, New York
Wilcox, Crittendon & Co. (Adjustable Goose Neck, etc.), Middletown, Conn.

## 303— Bands (Brake)

Columbia Steel Co., Elyria, O.
Cramp, Wm. & Sons Ship & E. B. Co., Beach & Ball, Phila., Pa.
Crosby Co., Buffalo, N. Y.
Detroit Pressed Steel Car Co., Detroit, Mich.
Emerson, Smith & Co. (Steel), Beaver Falls, Pa.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Neustadt Auto & Supply Co., St. Louis, Mo.
**Royal Equipment Co. ("Raybestos," "Besto," "Stability," "Duplex"),** Bridgeport, Conn.
Smith, A. O. Co., Milwaukee, Wis.
Standard Welding Co., Cleveland, O.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 304— Bands (Brass)

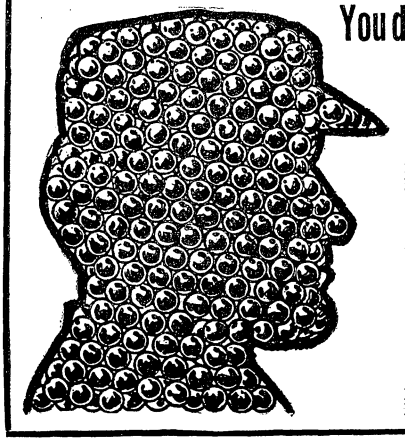
Waterbury Brass Goods Corporation (Fancy & Perforated), Waterbury, Conn.

## 305— Bands (Brush)

Lothrop, Frank B., South Acton, Mass.

## 306— Bands (Hose)

American Foundry & Mfg. Co., St. Louis, Mo.
Allen, M. D., Mfg. Co. ("Caldwell's"), 151 Lake, Chicago, Ill.
Ballard Drop Forge Co. (Steel for Wooden Pipe & Tanks, etc.), Ballard, Seattle, Wash.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Goodfellow, J. H. Mfg. Co., Buffalo, N. Y.
**HAYS MFG. CO., Erie, Pa. (See adv. index, end of book**
**Hudson Parer Co., Leominster, Mass.**
Maltby, Geo. B. Co., Cleveland, O.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.

# You don't have to Pay this man Wages for Burnishing—He's All Balls

## The Abbott Burnishing Process by Means of Steel Balls

EACH Polishing and Buffing Machine you use requires its own operator. On the other hand an Abbott Steel Ball Tumbling Barrel takes the place of SEVERAL Polishing and Buffing Machines. And it requires practically none of an operator's time.

The articles to be polished and the steel balls together with a soapy mixture are placed in the barrel, the power is turned on and no further attention is required until the job is finished and the contents of the barrel ready to be dumped. IT'S THE BALLS THAT DO THE WORK—NOT THE OPERATOR.

For polishing all kinds of small metal articles in quantities the Abbott Process by means of Steel Balls is the quickest and cheapest way.

Besides, it gives better results, as none of the surface of the metal is removed by steel balls. They rub over the surface of the piece, burnishing and hardening it.

We sell either the Barrel and the Balls complete or the Balls alone. Send for our booklet.

## THE ABBOTT BALL CO.

**5-15 Hicks St., Hartford, Conn.**

Foreign Representatives: For Great Britain and Sweden—Lander & Larsson, 164 Edmund Street, Birmingham, England. For Germany and Austria—Friedrich Wegener, Langstrasse 24, Berlin O. 17, Germany.


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Phoenix Hardware Mfg. Co. ("Star" Improved), Homer, N. Y.
**Sherman, H. B. Mfg. Co., Battle Creek, Mich.**
**Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.**
Walworth Mfg. Co., Boston, Mass.
Yerdon, Wm. ("Yerdon's" Double), Fort Plain, N. Y.

## 307— Bands (Hub)

Naugatuck Malleable Iron Co. ("Warner"), Naugatuck, Conn.

## 308—Bands (Pipe & Tank)

American Foundry & Mfg. Co., St. Louis, Mo.
Cambria Steel Co. (With Rolled Threads), Johnstown, Pa.
Central Foundry Co. (For Cast Iron Pipe), 37 Wall, New York
Colorado Fuel & Iron Co., Denver, Col.
**Franklin Pipe & Foundry Co., 2438 S Paulina, Chicago, Ill.**
Murdock Mfg. & Supply Co., Cincinnati, O.

## 309— Bands (Rubber)

American Lead Pencil Co., 43 W 4th, New York
Combination Rubber & Belting Co., Bloomfield,
Davol Rubber Co., Providence, R. I. N. J.
**DIAMOND RUBBER CO., Akron, O.** (See adv. index, end of book)
Faber, A. W., Newark, N. J.
Faber, Eberhard, 190 5th av, New York
**GOODRICH, B. F. CO. (For All Uses),** Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Hodgman Rubber Co., 806 B'way, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Tyler Rubber Co., Andover, Mass.

## 310—Bands (Shingle, Box & Shook)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See and index & branch offices, end of book)
Allegheny Steel Band Co., N. S. Pittsburg, Pa.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
**CARY MFG. CO., 29 Roosevelt, New York. (See adv. index, end of book)**
De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
Hollow Cable Mfg. Co. ("Preston's" Patent Braided Wire Box), Hornell, N. Y.
National Mfg. Co., N S, Pittsburg, Pa.
Paton, J. & Co. (Iron & Steel), Cleveland, O.

## 310a— Bands (Testing)

**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)

## 311—Bank Safes (Patent Screw Door)

**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av. Cincinnati, O. (See adv. index & branch offices, end of book)

## 312— Bank Vaults

American Safe & Lock Co., Cincinnati, O.
Barnes Safe & Lock Co., Pittsburg, Pa.
Baum, J. Safe & Lock Co., Cincinnati, O.
Cary Safe Co., Buffalo, N. Y.
Diebold Safe & Lock Co., Canton, O.
Dyer Bros. Golden West Iron Works, San Francisco, Cal.
**FIRE-PROOF FURNITURE & CON-**struction Co., Miamisburg, O. (See adv. index, end of book)
**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av. Cincinnati, O. (See adv. index & branch offices, end of book)
Herring-Hall-Marvin Safe Co., Hamilton, O.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Manganese Steel Safe Co., Plainfield, N. J.
Miller, L. H. Safe & Iron Wks, Baltimore, Md.
Morris-Ireland Safe Co., Boston, Mass.
Mosler Safe Co., Hamilton, O.
National Safe & Lock Co., Cleveland, O.
Remington & Sherman Co., 359 B'way, New York
Schwab Safe & Lock Co., Lafayette, Ind.
Stewart Iron Works Co., Cincinnati, O.
Triumph Safe & Lock Co., Connersville, Ind.
Trumbull Safe & Vault Co., 117 Lake, Chicago,
Van Dorn Iron Works Co., Cleveland, O. Ill.
Victor Safe & Lock Co. (Manganese Steel), Cincinnati, O.
Waltz Safe & Lock Co., San Francisco, Cal.
Western Iron Works, San Francisco, Cal.
York Safe & Lock Co., York, Pa.

## 313—Bank & Office Fixtures (Metallic)

Art Metal Construction Co., Jamestown, N. Y.
**BERGER MFG. CO., THE, Main Office** & Works, Canton, O. (See adv. index & branch offices, end of book)
**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index and branch offices, end of book)
**Canton Art Metal Co., Canton, O.**
**FIRE-PROOF FURNITURE & CON-**struction Co., Miamisburg, O. (See adv. index, end of book)
**GENERAL FIREPROOFING CO. ("Allsteel"), Youngstown, O. (See adv. index & branch offices, end of book)**
Interior Metal Mfg. Co., Jamestown, N. Y.
Library Bureau, 530 Atlantic av, Boston, Mass.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Steel Fixture Mfg. Co., Topeka, Kan.
Van Dorn Iron Works Co., Cleveland, O.

## 314—Bank & Office Railings

### CALIFORNIA.

LOS ANGELES—Bailey Ornamental Iron Co.
Biescar, Henry
Jones, Jas. Co.
Niederer, J. Co.
SAN FRANCISCO—**California Artistic Metal &** Deterding Art Metal Works Wire Co.
Garratt, W. T. & Co.
Ralston Iron Works
Rudger-Merle Co.
Sperry Iron & Wire Works
**WRIGHT WIRE CO., 3 First. (See adv. index, end of book)**

### COLORADO.

DENVER—Grauman, L. Fixture Co.
Jackson-Richter Iron Works Co.
Pioneer Iron & Wire Works Co.

### CONNECTICUT.

BRIDGEPORT—Barnes, T. M.
HARTFORD—Howard, James L. & Co.
MERIDEN—Bradley & Hubbard Mfg. Co.
NEW HAVEN—Smith, Edw. F. & Co.
Smith, John P. & Co.
Yale Safe & Iron Co.
PLAINVILLE—Elm City Brass & Rivet Co.

### GEORGIA.

ATLANTA—Atlanta Wire & Iron Wks. Co.
Southern Wire & Iron Works

### ILLINOIS.

**AURORA—Love Bros. (Inc.)**
CHICAGO—American Iron & Wire Works, 1622 Carroll av.
Baldwin Brass Works, 525 W Van Buren
Barbee Wire & Iron Works, 44 Dearborn
**BROWN BROS. MFG. CO., 22d &** Campbell av. (See adv. index, end of book)
Central Architectural Iron Works, (Inc.), 4103 La Salle
**CHICAGO ORNAMENTAL IRON** Co., 37th c Stewart av. (See adv. index, end of book)
Columbia Wire & Iron Works, 1933 W Lake
Gilbert & Bennett Mfg. Co., 59 Clark
**HANKE IRON & WIRE WORKS,** 2550 Fillmore. (See adv. index, end of
Heath-Johnson Co., 300 W Ontario book)
**JACKSON, WM. H. COMPANY, 208** S Michigan av. (See adv. index, end of book)
**LANDON, E. R. IRON & WIRE** Works, 166 N May. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON** Works, Lake & Dearborn). (See adv. index, end of book)
**STANDARD CO., Railway Exch** bldg. (See adv. index, end of book)
United Ornamental Iron Co., Security bldg.
Voss, Fred'k, 1852 Austin av.
**Western Arch'l Iron Co., 408 W Indiana**
**WINSLOW BROS. COMPANY (Iron,** Brass & Bronze), 4600 W Harrison. **(See adv. index, end of book)**
**EDWARDSVILLE—Edwardsville Brass Co.**
**QUINCY—Van Doorn Co.**
ROCKFORD—Andrews Wire & Iron Works
**SYCAMORE—Turner Brass Works**

### INDIANA.

EVANSVILLE—Mesker, Geo. L. & Co. (Wire & Iron)
INDINAPOLIS—Central Wire & Iron Works
Geiger & Peters
Inland Ornamental Iron Works
Langsenkamp, Frank H.
Langsenkamp Wheeler Brass Works
Melaun, Ernst
Roch, Tobias
LAFAYETTE—Barbee Wire & Iron Works
TERRE HAUTE—Up-to-Date Mfg. Co.

### IOWA.

DES MOINES—Centaur Wire & Iron Works
Central Iron Works
DUBUQUE—Trenk Wire Works

### KENTUCKY.

LOUISVILLE—Champion Iron & Wire Works,
Dow Wire & Iron Works
Imperial Wire & Iron Works
Kentucky Wire & Iron Works Co.
Snead Architectural Iron Works

### MAINE.

PORTLAND—Megquier & Jones Co.

### MARYLAND.

BALTIMORE—Arundel Iron Wks, 757 W Pratt
Balderston, H. & Son, 319 Pearl
**Chesapeake Iron Works**
**Dufur, Baggott & Co., 235 W Saratoga**
Dufur & Co., 311 N Howard
Enterprise Wire & Iron Works, 308 N Gay
Jones, L. E. & Co., 321 N Calvert
Meiser, H. & Son, 210 Clay
Stidman & Co., 16 N Frederick

### MASSACHUSETTS.

BOSTON—Bay State Brass Foundry, 155 A, S B
Hub Wire Cloth & Wire Work Co., 178 Washington
**Morss & Whyte Co., 75 Cornhill**
National Mfg. Co., 79 Milk
Nelson Bros., 62 Thayer
Scrannage Bros. 77 Travers
Whyte, Oliver & Co., 17 Cornhill
LOWELL—Rice & Co.
SPRINGFIELD—Bigelow, Cheney Wire Works.
WORCESTER—Dean, H. E. & Co.
National Mfg. Co.
**WRIGHT WIRE CO. (See adv. index, end of book)**

### MICHIGAN.

DETROIT—Acme Fancy Wire Works
Amos, Charles & Co., 9-13 Orchard
**ART BRASS & WIRE WORKS.** (See adv. index, end of book)
Barnum, E. T. Wire & Iron Works
**BOLLES, J. E. IRON & WIRE** Works. (See adv. index, end of book)
De Croupet Iron Works, 345 Monroe av
Detroit Arch'l Iron Works Co., Detroit, Mich
**DETROIT MAUSOLEUM EQUIP-**ment Works (Bronze Only). (See adv. index, end of book)
Detroit Wire & Iron Works, 27 Jefferson
**INGLIS, WM. WIRE & IRON** Works, 59 Woodbridge. (See adv. index, end of book)
Phoenix Wire Works, Kirby & G. T. R. R.
Seiferlein Wire & Iron Works, Detroit, Mich.
**VULCAN CO. (See adv. index, end** of book)
GRAND RAPIDS—Grand Rapids Ornamental Iron & Wire Works
SAGINAW—Koehler Bros.

### MINNESOTA.

MINNEAPOLIS — **FLOUR CITY ORNA-**mental Iron Works, 27th st. & 28th av. (See adv. index, end of book)
Kienzle-Merrick Mfg. Co.
Minneapolis Ornamental Iron Works
Twentieth Century Brass & Iron Works Co.
**ST. PAUL—Herzog Iron Works**
Twin City Iron & Wire Works

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# HALL PATENT

(APRIL 3, 1906)

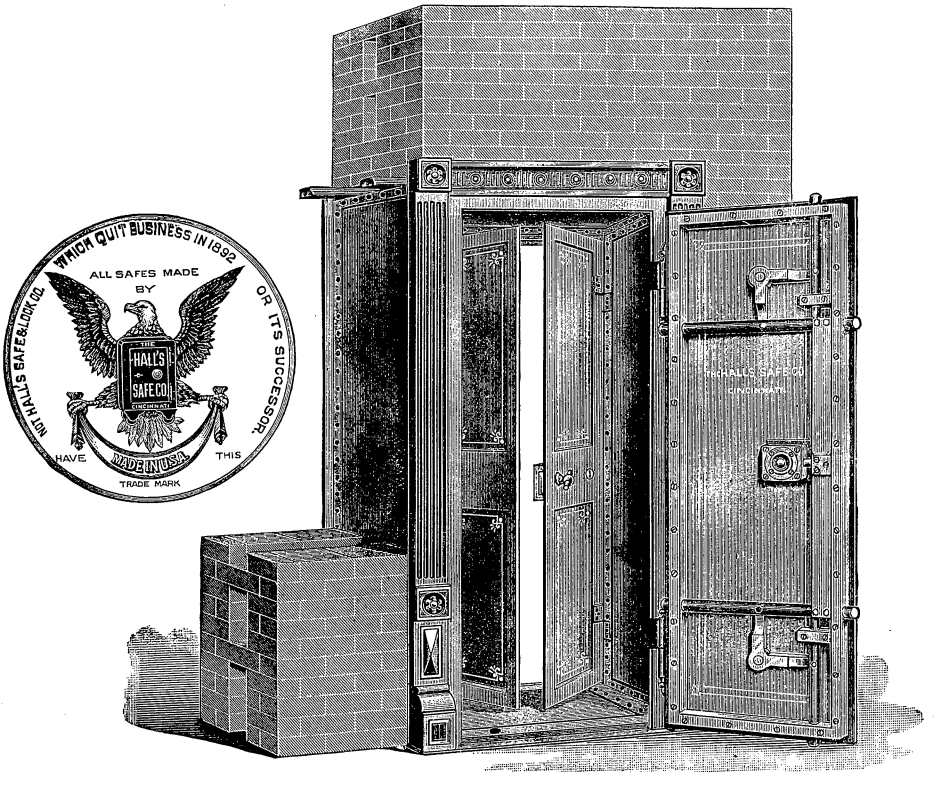
# FIRE-PROOF SAFES

WITH AND WITHOUT

## Bankers' Chests, Steel Linings and Interiors

PATENT SCREW-DOOR BANK SAFES. EXPORT AND COIN SAFES. EXPRESS MESSENGER BOXES.
VAULT FRONTS AND DOORS. BANK AND SAFETY DEPOSIT VAULTS.
SAFETY DEPOSIT BOXES, ETC.

## Drawings and Estimates Furnished on Application




Above Cut represents a sectional view of our Fire-Proof Brick Vault, showing Vault Front or Doors partly bricked in.

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S. F. KEMPER, Secy.
E. C. HALL, Jr.
A. A. HALL
WILLIAM H. HALL,
V-Pres. and Treas.

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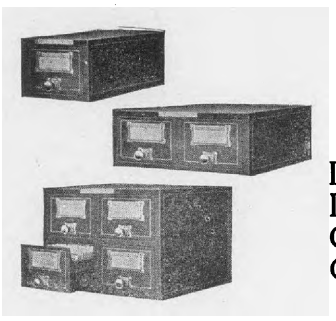
## HALL PATENT SAFES

(APRIL 3, 1906)

FACTORY
CINCINNATI
MAIN OFFICE
CINCINNATI
P. O. Box 846
SALESROOM
339 BROADWAY, NEW YORK

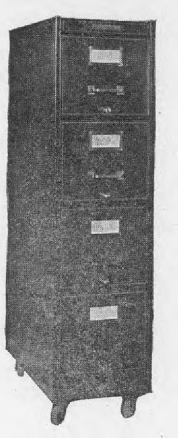
3253 to 3269 Spring Grove Ave., CINCINNATI, OHIO

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# STEEL Filing Devices of Every Description

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CARD DRAWERS
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**FIRE-PROOF FURNITURE AND CONSTRUCTION CO.**
MIAMISBURG, OHIO

# Hendricks' Commercial Register

IS USED FOR

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THAN ANY OTHER PUBLICATION ISSUED

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## MISSOURI.

KANSAS CITY—Central Brass Works Co.
Kansas City Wire & Iron Works
Kleeman, L. F. Mfg. Co.
Tilk, Frank Ornamental Iron Works Co.
ST. LOUIS—Lasar Mfg. Co.
St. Louis Wire & Iron Co.

## NEBRASKA.

OMAHA—Champion Iron & Wire Works
Hlavka, Jno.

## NEW JERSEY.

CAMDEN—**MERRITT & CO., 93 Arch.** (See adv. index, end of book)
**JERSEY CITY—SNEAD & CO. IRON Works, ft of Pine. (See adv. index, end of book)**
NEWARK—Gould's, M. Son & Co. (Brass & Bronze)
Industrial Wire & Metal Works, 6 Bloomfield av
Storsberg, Fritz, 20 Atlantic
RUTHERFORD—Union Bronze Co.

## NEW YORK.

ALBANY—Campbell, Harry E. Co.
BINGHAMTON—Titchener, E. H. & Co.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Buffalo Wire Works Co. (Also Screens), 316 Terrace
Fries & Co. (Brass & Bronze)
Sanford, Thomas F., 84 B'way
Zero Valve & Brass Mfg. Co. (Brass Only)
ELMIRA—Bantley, Constantine E.
MOUNT VERNON — **HENRY - BONNARD** Bronze Co. (Bronze & Ornamental Iron & Brass) (See adv. index, end of book)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Ajax Iron & Wire Co., 75 York
American Brass Fixture Works (Brass & Bronze), 66 Greenpoint av
Durst, Wm., 4 Water
Grosback, Wm. & Co., 37 Maspeth av
Hecla Iron Works, 118 N 11th
McMurray, R. T. & Co., 365 Harman
Mills, W. J., 639 Kent av
**Pirkl, Jno, Iron Works (Inc.), 240 n 10th**

### Boroughs of Manhattan & Bronx.

NEW YORK—Bataille, Achille & Co., 587 Hudson
**CABARET, PAUL E. & CO.** (Bronze), 120 11th av, New York. (See adv. index, end of book)
Cabble, Wm. Excelsior Wire Mfg. Co., 43
Chapman, Wm. O., 30 Church Fulton
Empire Brass & Metal Works, 290 B'way
**ESTEY WIRE WORKS CO., 59** Fulton. (See adv. index, end of book)
Fiske, J. W. Iron Works, 56 Park pl
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th; Works: Providence, R. I. (See adv. index, end of book)
Gould's, M. Son & Co. (Brass Bronze), 83
Hopkins & Co., 198 W B'way Reade
Howard & Morse, 45 Fulton
**JACKSON, WM. H. COMPANY** (Bank Counter Screens a Specialty), 2-4-6 W 47th. (See adv. index, end of book)
Janusch Mfg. Co. (Brass & Bronze), 496 E
Lobel-Andrews Co., 531 W 55th 134th
Manhattan Brass Co., 334 E 28th
New York Brass & Wire Works Co., 177 Grand
**PITT, WM. R. COMPOSITE IRON** Works, 136 W 24th. (See adv. index, end of book)
Sheppard & Stolp, 20 Fletcher
Thompson, Hervey, 176 E 119th
Tiffany Studios, 347 Madison av
Toffler, S. & Co. (Inc.) (Brass), 841 E 136th
**TUTTLE & BAILEY MFG. CO.** (Brass & Bronze), 83 Beekman. (See adv. index, end of book)
**TYLER, W. S. CO. (of Cleveland, O.),** 11 B'way. (See adv. index & branch offices, end of book)
Wells Architectural Iron Co., 219 E 144th
Westervelt, A. B. & W. T., 102 Chambers
Williams, George A. & Sons, 85 Fulton
Williams, John, 556 W 27th
Williamson, C. T. Wire Novelty Co., 81 Fulton
**WINSLOW BROS. COMPANY (Iron, Brass & Bronze), 103 Park av.** (See adv. index & branch offices, end of book)

### Borough of Queens.

ASTORIA—Federal Brass & Bronze Co.
**MASPETH—Richey, Browne & Deanld (Inc.)**

### (End of New York City)

**ROCHESTER—Snow Wire Works Co.**
White Wire Works Co.
SYRACUSE—Smith & Caffrey Co.
Syracuse Wire Works

## OHIO.

AKRON—Ornamental Iron Works Co.
**CANTON—Columbia Iron & Wire Works Co.**
CINCINNATI—Cincinnati Mfg. Co., 1243 W
Kinsley, John R., 115 E 6th 6th
**SCHREIBER, L. SONS & CO., 5th & Eggleston av.** (See adv. index, end of book)
Schroder, J. B. & Co.
CLEVELAND—Cleveland Art Metal Co.
**TYLER, W. S. CO. (See adv. index, end of book)**
Van Dorn Iron Works Co.
COLUMBUS—**COLUMBUS WIRE & IRON** Works Co. (See adv. index, end of **Ohio Elevator & Machine Co.** book)
DAYTON—City Forge & Iron Works (Andrew Plocher, Prop.)
HAMILTON—**MEYERS, FRED. J. MFG.** Co. (See adv. index, end of book)
SPRINGFIELD—Bayley, Wm. Co.
**TOLEDO — DONOVAN WIRE & IRON** Co., Chicago & W. & L. E. Ry. (See adv. index, end of book)
Milnine, H. B. & Co.
**Toledo Wire & Iron Works**

## OREGON.

**PORTLAND—Portland Wire & Iron Works**
Tuerck, I. K.

## PENNSYLVANIA.

PHILADELPHIA—Biggin, Chas. P. Co., 1829 Harlan
**DARBY, EDW. & SONS CO., 239** Arch. (See adv. index, end of book)
Gensel, Frederick & Co., 911 Vine
Giese Mfg. Co., 260 S 5th
Halstead & Co., 1129 Cherry
Midland Metal Co. (Inc.), 21st & Jefferson
Nacke, A. & Son, 236 S 9th
Pettit, Frank, 809 Master
**REMPPIS, WM. F. CO., 1506 Sansom.** (See adv. index, end of book)
PITTSBURG—Cornwall, E. & Co., 709 Sarah
McKenna Bros. Brass Co. (Brass), 1st av & Ross
Pittsburg Brass Mfg. Co., Penn av & 32d
Sommerville Iron & Bronze Co.
**TAYLOR & DEAN, Penn av & 25th.** (See adv. index, end of book)
**TYLER, W. S. CO., Bessemer bldg.** (See adv. index, end of book)
READING—**REMPPIS, WM. F. CO. (See adv. index, end of book)**

## RHODE ISLAND.

PROVIDENCE—What Cheer Wire Works

## TENNESSEE.

CHATTANOOGA—Chattanooga Iron & Wire Works

## TEXAS.

HOUSTON—Berger, A. A. & Co.
Kettler Brass Mfg. Co.

## UTAH.

SALT LAKE CITY—Crager Wire & Iron Works
Salt Lake Wire & Iron Works

## WASHINGTON.

SPOKANE—Spokane Ornamental Iron & Wire Works
TACOMA—Tacoma Ornamental Iron Works

## WEST VIRGINIA.

WHEELING—**ARCHITECTURAL IRON** & Wire Works. (See adv. index, end of **Harris, P. S.** book)

## WISCONSIN.

MILWAUKEE — Colnik, C. Mfg. Co., 734 Greenbush
Globe Wire & Iron Works.
Hennecke, C. Co.
Loeffelholz Co., 170 Clinton
Wagner, A. F., 514 Market
Wisconsin Iron & Wire Wks, 190 E Water

# 314a—Bank & Safety Deposit Vaults

**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av, Cincinnati, O. Salesroom: 393 B'way, New York. (See adv. index, end of book)

# 315— Banks (Savings)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Boston Pressed Metal Co., Worcester, Mass.
Burns, C. O. Co., 15 W 38th, New York
Cassady-Fairbank Mfg. Co. (Toys), 6106 Lasalle, Chicago, Ill.
Chicago Hardware Co. ("Harper"), North Chicago, Ill.
Durable Toy & Novelty Co., 44 Union sq, New York
Grab, Victor M. & Co. ("Good Luck"), 59 Clark, Chicago, Ill.
Ideal Mfg. Co., Detroit, Mich.
Ives Mfg. Co., Bridgeport, Conn.
Meilink Mfg. Co., Toledo, O.
Reinhold, Jno. J., Marietta, Pa.
Shimer, Wm. Son & Co., Freemansburg, Pa.
Superior Bank Co., Auditorium bldg, Chicago, Ill.

# 316— Bar Folders

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

# 317— Barge Builders

(See also Ship Builders)

American Bridge Co. (Steel) (At Ambridge, Pa., Plant), Pittsburg, Pa., & 30 Church, New York
**American Car & Foundry Co.** (Steel & Wooden), 915 Olive, St. Louis, Mo., & 165 B'way, New York
Carroll-Porter Boiler & Tank Co. (Steel), **Wellsville, O.**
Cramp, Wm. & Sons, Ship & Engine Building Co. (Steel), Beach & Ball, Philadelphia, Pa.
Harlan & Hollingsworth Corporation (Steel), Wilmington, Del.
Newport News Ship Building & Dry Dock Co. (Steel), Newport News, Va.
Union Iron Works Co. (Steel), San Francisco, Cal.

# Bar Iron or Steel

(See Iron Bar Mills; also Steel Bar Mills)

# 318— Barium

Harshaw, Fuller & Goodwin Co. (Carbonate, Precipitated), Cleveland, O.
Sholes, Chas. E. Co. (Chloride, Fluoride, Sulphate & Peroxide), 164 Front, New York
Williams, John T. & Son (Chloride, Crystal, Small), Bristol, Tenn.

# 319— Barometers

Ainsworth, Wm. & Sons, Denver, Col.
Bliss, John & Co., 128 Front, New York
Chaney, L. F. Barometer Co., Springfield, O.
Davis, John & Son (Ltd.), Baltimore, Md.
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York
**ELLIOTT, B. K. CO. (Aneroid), 108** 6th, Pittsburg, Pa. (See adv. index, end of book)
Green, Henry, 1191 Bedford av, Brooklyn, N. Y.
Greiner, Emil Co., 45 Cliff, New York
Hand, John & Sons ("U. S. Navy"), 222 Walnut, Phila., Pa.
Keuffel & Esser Co., 127 Fulton, New York
**QUEEN & CO. (Inc.), 1211 Arch, Philadelphia, Pa.** (See adv. index, end of book)
Ritchie, E. S. & Sons, Brookline, Mass.
Tagliabue, Chas. J. Mfg. Co. (Aneroid & Mercury), 396 B'way, New York
Tagliabue, G. (Est. of), 302 Pearl, New York
Taylor Instrument Co. ("Tycos" of All Kinds), Rochester, N. Y.
Wagner Bros. & Co. (Importers), 45 John, New York
Wagner, Carl H., 1944 N Albany Chicago, Ill.

# 320— Barometers (Aneroid)

**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**QUEEN & CO. (Inc.), 1211 Arch, Philadelphia, Pa.** (See adv. index, end of book)

# Barrel Packers

(See Packing Machines; also Bag Filling Machines)

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## 321– Barrels (Chlorinating)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.

## 322–Barrels (Clean Up or Amalgam)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.

## 323– Barrels (Cyanide)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.

## 324– Barrels (Galvanizing)

U. S. Electro Galvanizing Co. (Automatic, Self-Emptying), 3 Park av, Brooklyn, N. Y.

## 325– Barrels (Japanning)

Baird Machine Co. (Also Fanning Mills), Oakville, Conn.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 326– Barrels (Oil)

Gulf Cooperage Co., Pittsburg, Pa.

## 327– Barrels (Plating)

Klauder-Weldon Dyeing Machine Co. ("Acme," Oblique), Amsterdam, N. Y.
L'Hommedieu, Chas. F. & Sons Co. ("Reliance"), 24 S Clinton, Chicago, Ill.
U. S. Electro Galvanizing Co. (Automatic Self-Emptying), 3 Park av, Brooklyn, N. Y.

## 328–Barrels (Seamless Pressed Steel)

**PRESSED STEEL TANK CO., Mil**waukee, Wis. (See adv. index, end of book)

## 329– Barrels (Second-Hand)

**BALTIMORE COOPERAGE CO., THE,** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Heidt, C. & Son, Jersey City, N. J.
Krell Bros. (Tight, Liquor, Vinegar, etc.), Toledo, O.
Maguire Bros. (Lime & Cement), Gerard av & 158th, New York

## 330– Barrels (Sheet Steel)

Acorn Brass Mfg. Co., 227 N Peoria, Chicago,
American Steel Package Co., Defiance, O. Ill.
Barnes Mfg. Co. (Seamless), Mansfield, O.
Clark, W. J. Co., Salem, O.
Cleveland Wire Spring Co., Cleveland, O.
Iron Clad Mfg. Co., 204 Varet, B'klyn, N. Y.
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
Ohio Galvanizing & Mfg. Co. (Steel Shop), Niles, O.
Ohio Mfg. Co. (Also Steel Foundry Barrels), Painesville, O.
**PRESSED STEEL TANK CO., Mil**waukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Welded Steel Barerl Corporation (Welded Steel), Detroit, Mich.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 331– Barrels (Steam Drying)

Baird Machine Co. (Also Fanning Mills), Oakville, Conn.

## Barrels (Steel)

(See Barrels, Sheet Steel)

## 332–Barrels (Steel Shipping)

Iron Clad Mfg. Co., 204 Varet, B'klyn, N. Y.
**PRESSED STEEL TANK CO. (Seam**less Pressed), Milwaukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)

## 333–Barrels (Tumbling or Rumbling)

(See also Mills, Tumbling; also Mills, Water Cinder; also Mills, Exhaust Tumbling)
**ABBOTT BALL CO. (Steel Ball Pro**cess), Hartford, Conn. (See adv. index, end of book)
Baird Machine Co. ("Baird" Oblique Tilting, Dry, Wet & Steam Drying, etc.), Oakville, Conn.
**BALTIMORE COOPERAGE CO., THE,** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Barnett, Oscar Foundry Co. ("Barnett's" Hexagon), Newark, N. J.
Bowler Foundry Co., Cleveland, O.
Brass Founders Supply Co. (Tilting, Oblique Tumblers for Brass Fdrs., also Dry & Wet Tumblers), Newark, N. J.
Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
**CENTRAL IRON WORKS ("Quincy"), Quincy, Ill. (See adv. index, end of book)**
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Clark Novelty Co. (Tilting Tumbling), Rochester, N. Y.
Cleveland Tumbling Barrel & Mfg. Co., Cleveland, O.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Machinery Co. (Foundry), Cuyahoga Falls, O.
**GLOBE MACHINE & STAMPING CO.,** "Globe" Tilting; also Horizontal), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Greist Mfg. Co. (Oblique Type, with Perforated End), New Haven, Conn.
Henderson Bros., Waterbury, Conn.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Locke Regulator Co., Salem, Mass.
McCormick, J. S. Co., Pittsburg, Pa.
Middleditch, Benj., Detroit, Mich.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Paxson, J. W. Co., 1021 N Delaware av, Phila.,
Phillips & McLaren, Pittsburg, Pa. Pa.
Royersford Foundry & Machine Co., Royersford
Sly, W. W. Mfg. Co., Cleveland, O. Pa.
Standard Machinery Co., Providence, R. I.
Stover Mfg. Co. ("Stover," Exhaust), Freeport, Ill.
Tilghman-Brookshank Sand Blast Co. ("Tilghman" & "Matthewson"), 1126 S 11th, Philadelphia, Pa.
Turner, Vaughn & Taylor Co. (Chain & Nail), Cuyahoga Falls, O.
Waterbury Machine Co. (Tilting for Brass, etc.), Waterbury, Conn.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 334–Barrels (Tumbling, Sand Blast)

Betton, J. M., 178 Wash'n, New York
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

## 335–Barrels (Tumbling, Steel Ball)

**ABBOTT BALL CO. ("Abbott" for** Burnishing & Polishing), Hartford, Conn. (See adv. index, end of book)
Baird Machine Co., Oakville, Conn.
**GLOBE MACHINE & STAMPING CO.** ("Globe" for Burnishing), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**GRAMMES, L. F. & SONS, Allentown,** Pa. (See adv. index, end of book)

## 335a–Barrels (Tumbling, Steel Plate)

**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

## 336–Barrels (Wire Thrashing)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 337– Barrels (Working)

Kettler Brass Mfg. Co., Houston, Texas
McGregor Walking Barrel Co., Bradford, Pa.
National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburg, Pa.

## 337a– Barrow Parts

**JACKSON MFG. CO. (Legs, Bearings,** Brackets, Wheels, Handles, etc.), 50 Church, New York, & Harrisburg, Pa. (See adv. index, end of book)

## 338–Barrows (Baggage & Express)

Boston & Lockport Block Co., Boston, Mass.
Buffalo Scale Co., Buffalo, N. Y.
Clark, Geo. P. Co., Windsor Locks, Conn.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO.** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Howe Scale Co., Rutland, Vt.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Sidney Steel Scraper Co. (Wooden Frame), Sidney, O.
Stewart, A. F. & S. Co., Rochester, N. Y.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Whitman Agricultural Co., St. Louis, Mo.

## 339– Barrows (Brick)

American Clay Machinery Co., Bucyrus, O.
Anderson Foundry & Machine Works, Anderson, Ind.
Bryan Mfg. Co. (Steel Frame), Bryan, O.
Dederick's, P. K. Sons, Albany, N. Y.
Fairbanks Co., 186 Lafayette, New York
Freese, E. M. & Co., Galion, O.
Hensley, James W., Indianapolis, Ind.
**JACKSON MFG. CO., 50 Church, New** York & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel & Wooden), Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
McWhinnie, Thos., Poughkeepsie, N. Y.
**MARSH CO. ("Haslup" Steel Tray),** 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH-CAPRON MFG. CO. ("Has**lup" Steel Tray), 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Martin, H. Brick Machine Co., Lancaster, Pa.
Means Eng. & Fdry. Co., Toronto, O.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Portsmouth Machine & Casting Co., Portsmouth, O.
Potts, C. & A. & Co., Indianapolis, Ind.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Raymond, C. W. Co., Dayton, O.
Scott-Madden Iron Works Co., St. Louis, Mo.
Sidney Steel Scraper Co. (Wood Frame, Iron Wheel), Sidney, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Toledo Wheelbarrow Co. ("Bull Frog"), Toledo, O.
Wellington Machine Co., Wellington, O.
Whitman Agricultural Co., St. Louis, Mo.

## Barrows (Charging)

(See Barrows, Furnace Charging)

## 340– Barrows (Coke)

Akron Cultivator Co. (Steel), Akron, O.
American Steel Scraper Co., Sidney, O.
**ARCHER IRON WORKS CO. (Steel),** 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, (N. E.), Cleveland, O. (See adv. index, end of book)

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# JACKSON MANUFACTURING CO.

## WHEEL BARROWS



MANUFACTURERS OF

**PRESSED STEEL BARROWS**

FOR

Mills, Furnace, Mining, Railroad and Contractors' Use, Mining Wagons, Etc.

ALSO

Concrete Carts.

REPAIR PARTS:—Legs, Bearings, Brackets, Wheels, Handles, Etc., Furnished.



**General Sales Office, Hudson Terminal Building, 50 CHURCH STREET, NEW YORK, N. Y.**

WORKS: HARRISBURG, PA.


Bryan Mfg. Co., Bryan, O.
Cockburn Co., Jersey City, N. J.
Connellsville Iron Works ("Connellsville" Steel Angle), Connellsville, Pa.
Connellsville Machine & Car Co., Connellsville, Pa.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO. (Steel),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
McWhinnie, Thos., Poughkeepsie, N. Y.
**MARSH CO. ("Haslup" Solid Pressed** Steel Tray), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH-CAPRON MFG. CO. ("Haslup" Solid Pressed Steel Tray),** Old Colony bldg., Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Sidney Steel Scraper Co., Sidney, O.
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.
Sterling Wheelbarrow Co., West Allis, Wis.
Stuebner, G. L. Iron Works, Long Island City, N. Y.

## 341— Barrows (Concrete)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Akron Cultivator Co., Akron, O
**American Steel Scraper Co., Sidney, O.**
**ARCHER IRON WORKS CO. (Steel** & Wood Frame), 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)
Cockburn Co., Jersey City, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
**KOEHRING MACHINE CO., Milwau**kee, Wis. (See adv. index & branch offices, end of book)
**MARSH CO. ("Haslup" Solid Pressed** Steel Tray), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH-CAPRON MFG. CO. ("Has**lup" Solid Pressed Steel Tray), 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Puffer-Hubbard Mfg. Co. (Steel Tray, Steel Wheels, Wood Handles), Minneapolis, Minn.
**RANSOME CONCRETE MACHINERY** Co. (Steel), Dunellen, N. J. (See adv. index & branch offices, end of book)
Sterling Wheelbarrow Co. ("Bakers'," "Ajax," "Eureka," Roller Bearing Wheels), West Allis, Wis.
Toledo Wheelbarrow Co. ("Bull Frog" Steel Tray), Toledo, O.

## Barrows (Contractors')

(See Wheelbarrows)

## 342—Barrows (Folding, Steel Frame)

**Bryan Mfg. Co., Bryan, O.**

## 343— Barrows (Foundry)

Akron Cultivator Co., Akron, O.
**American Steel Scraper Co., Sidney, O.**
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago, Ill. (See adv. index, end of book)
Bryan Mfg. Co., Bryan, O.
Cockburn Co., Jersey City, N. J.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO. (Steel),** Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
McWhinnie, Thos., Poughkeepsie, N. Y.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Sidney Steel Scraper Co., Sidney, O.
**SMITH, J. D. FOUNDRY SUPPLY** Co., 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Sterling Wheelbarrow Co. ("Sterling" All Steel Tubular Frame), West Allis, Wis.
Stuebner, G. L. Iron Works (Steel), 12th & Vernon av, Long Island City, N. Y.
Syracuse Chilled Plow Co. (Steel Tray, Tubular), Syracuse, N. Y.
Union Iron Works, Hoboken, N. J.

## 344—Barrows (Furnace Charging)

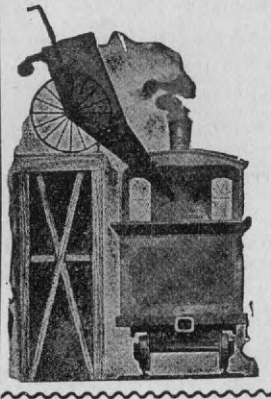
Akron Cultivator Co. (Automatic Dump), Akron, O.
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago Ill. (See adv. index, end of book)
Bryan Mfg. Co., Byran, O.
Cockburn Co., Jersey City, N. J.
Consolidated Iron Works, Hoboken, N. J.
Conveying Machinery Co., 120 Liberty, New York
Fairbanks Co., 186 Lafayette, New York
Focht's, Geo. Sons, Hoboken, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Ohio Ceramic Engineering Co., Cleveland, O.
Petty, J. K. & Co. (Lebanon Boiler Works) (With Failers Axles), Stephen Girard bldg. Philadelphia, Pa.; Works: Lebanon, Pa.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Power & Mining Machinery Co., Cudahy, Wis.
Sidney Steel Scraper Co., Sidney, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Union Boiler & Mfg. Co., Lebanon, Pa.
Watt Mining Car Wheel Co., Barnesville, O.
Weimer Machine Works Co., Lebanon, Pa.

## 345— Barrows (Garden)

**American Steel Scraper Co., Sidney, O.**
Bryan Mfg. Co., Bryan, O.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. ("20th Century," etc.), Columbus, O.
McWhinnie, Thos., Poughkeepsie, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Sidney Steel Scraper Co., Sidney, O.
Sterling Wheelbarrow Co., West Allis, Wis.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Toledo Metal Wheel Co., Toledo, O.
Toledo Wheelbarrow Co. ("Toledo Clipper," etc.), Toledo, O.
Western Wheelbarrow & Mfg. Co. ("Queen"), Kansas City, Kan.
Zering, H. Mfg. Co., Cincinnati, O.

## 346—Barrows (Locomotive Coal Station)

Akron Cultivator Co., Akron, O.
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago, Ill. (See adv. index, end of book)

This locomotive charging barrow is our patent. Holds 1 ton of coal. One man handles it.

**ARCHER IRON WORKS**
34th Place and Western Ave Chicago, Ill.


**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.

## 347— Barrows (Mortar)

Akron Cultivator Co., Akron, O.
**American Steel Scraper Co., Sidney, O.**
**ARCHER IRON WORKS CO. (Steel),** 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)
**Bryan Mfg. Co., Bryan, O.**
Cockburn Co., Jersey City, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)

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Kilbourne & Jacobs Mfg. Co. (Bolted), Columbus, O.
**MARSH CO. ("Haslup" Solid Pressed** Steel Tray), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of
**MARSH-CAPRON MFG. CO. ("Has-**lup" Solid Pressed Steel Tray), 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Phillips, Doup & Co. ("National" Steel Tray, Wood Frame), 56 Pearl, Brooklyn, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)
Sidney Steel Scraper Co. (Tubular Steel), Sidney, O.
Sterling Wheelbarrow Co. (Steel, etc.), West Allis, Wis.
Syracuse Chilled Plow Co. (Steel Tray, Wood Frame), Syracuse, N. Y.
Toledo Wheelbarrow Co. ("Bull Frog" Steel Tray), Toledo, O.

## 348— Barrows (Ore)

Akron Cultivator Co., Akron, O.
American Steel Scraper Co., Sidney, O.
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Mar-**quette rd, (N. E.), Cleveland, O. (See adv. index, end of book)
Cockburn Co., Jersey City, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (Bolted), Columbus, O.
Ohio Ceramic Engineering Co. (Steel), Cleveland, O.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Syracuse Chilled Plow Co. (Steel Tray Tubular), Syracuse, N. Y.

## 349— Barrows (Pig Iron)

Akron Cultivator Co., Akron, O.
American Steel Scraper Co., Sidney, O.
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago, Ill. (See adv. index, end of book)
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (Tubular Steel, Columbus, O.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Sidney Steel Scraper Co., Sidney, O.
Sterling Wheelbarrow Co., West Allis, Wis.
Syracuse Chilled Plow Co. (Steel Tray Tubular), Syracuse, N. Y.

## 350— Barrows (Steel)

Akron Cultivator Co., Akron, O.
American Steel Scraper Co. (Solid Pressed, Steel Tray), Sidney, O.
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago, Ill. (See adv. index, end of book)
Bryan Mfg. Co., Bryan, O.
Cockburn Co., Jersey City, N. J.
Connellsville Machine & Car Co., Connellsville, Pa.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (& Steel Tray), Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
McWhinnie, Thomas (Steel Tray & Wheel), Poughkeepsie, N. Y.
**MARSH CO. ("Haslup" Solid Pressed** Steel Tray), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH-CAPRON MFG. CO., ("Has-**lup" Solid Pressed Steel Tray), 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ohio Ceramic Engineering Co. (Package, etc.), Cleveland, O.
Phillips, Doup Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Sidney Steel Scraper Co. (Solid Pressed Steel, Tray & Steel Tubular), Sidney, O.
Sterling Wheelbarrow Co. (All Steel, Roller Bearing Wheels), West Allis, Wis.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Toledo Wheelbarrow Co., Toledo, O.
Union Iron Works, Hoboken, N. J.
Western Iron Works, 123 Beale, San Francisco, Cal.

## 351—Barrows (Steel Tubular)

Akron Cultivator Co., Akron, O.
American Steel Scraper Co., Sidney, O.
**ARCHER IRON WORKS CO., 34th pl** & Western av, Chicago, Ill. (See adv. index, end of book)






Bryan Mfg. Co., Bryan, O.
Cockburn Co., Jersey City, N. J.
Consolidated Iron Works, Hoboken, N. J.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
McWinnie Wheelbarrow Works, Poughkeepsie, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Sidney Steel Scraper Co., Sidney, O.
Sterling Wheelbarrow Co. (Roller Bearing Wheels), West Allis, Wis.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Toledo Wheelbarrow Co. ("Bull Frog"), To-
Zering, H. Mfg. Co., Cincinnati, O. ledo, O.

## 352— Barrows (Stone)

Akron Cultivator Co., Akron, O.
American Steel Scraper Co. (Steel Bottom, Wood Frame), Sidney O.
**ARCHER IRON WORKS CO. (Steel),** 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)
Bryan Mfg. Co., Bryan, O.
Cockburn Co., Jersey City, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (Wood Wheels, also Steel Bottom), Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
McWhinnie, Thos., Poughkeepsie, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Sidney Steel Scraper Co. (Steel Bottom), Sidney, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Toledo Wheelbarrow Co., Toledo, O.

## 353— Barrows (Track)

American Trackbarrow Co. ("American"), Lowell, Mass.
Railroad Supply Co., 215 Dearborn, Chicago, Ill.

## Barrows (Wood)

(See Wheelbarrows)

## 354— Bars (Angle)

Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver, Colo.
Illinois Steel Co., 115 Adams, Chicago, Ill.
Inland Steel Co., First Nat'l Bank bldg., Chicago, Ill.
Interstate Iron & Steel Co., First Nat'l Bank bldg., Chicago, Ill.
Jones & Laughlin Steel Co. (Cold & Hot Rolled), Pittsburg, Pa.
Lackawanna Steel Co., Buffalo, N. Y., & 2 Rector, New York
Logan Iron & Steel Co., Philadelphia, Pa.
Pardee, C. Works, Perth Amboy, N. J.
Pennsylvania Steel Co., 1421 Chestnut, Phila., Pa.
National Foundry Co., Youngstown, O.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 211 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 355— Bars (Arch)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Carnegie Steel Co., Pittsburg, Pa.
National Foundry Co., Youngstown, O.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Valley Forging Co., Verona, Pa.

## 356— Bars (Boring)

(See also Cylinder Boring Machines)

Buck Boring Bar Co. (Expanding, for Car Wheels), Huntington, W. Va.
Bullard Machine Tool Co. (Boring & Reaming), Bridgeport, Conn.
**ELMES, CHAS. F. ENGINEERING** Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Kelly Reamer Co., Cleveland, O.
**Krieger Tool & Mfg. Co. ("Krieger" Hollow** Combination), 564 W Randolph, Chicago, Ill.
Nappanee Iron Works ("Nappanee Portable for Cylinders & General Works), Nappanee, Ind
**RYERSON, JOSEPH T. & SONS, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Seamless Tube Co. of America (Hollow Seamless Drawn Steel), Pittsburg, Pa.
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.
Union Caliper Co., Orange, Mass.
Universal Boring Machine Co., Hudson, Mass.

## 357— Bars (Carpenters', Etc.)

Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Elmore Tool Mfg. Co., Hartford, Conn.
Johnson, W. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Marshalltown Trowel Co., Marshalltown, Ia.
Vaughan & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
Washington Cutlery Co., Watertown, Wis.

## 358— Bars (Claw)

Atha Tool Co. (Railroad With Heel & Goose Neck), Newark, N. J.
Beall Bros. (Inc.) (With Heel & Goose Neck, etc.), Alton, Ill.
Economy Separable Switch Point Co. ("Economy," Seperable), Louisville, Ky.
Evansville Tool Works (Railroad, etc.), Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Kalamazoo Rwy. Supply Co., Kalamazoo, Mich.
Klein-Logan Co., Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"). Works: Cheswick, Pa.
Plumb, Fayette R., Frankford, Phila., Pa.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.
What Cheer Tool Co. ("What Cheer" Solid Steel), What Cheer, Ia.

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## 359— Bars (Commutator)

(See also Commutators)

Billings & Spencer Co., Hartford, Conn.
Cameron Electrical Mfg. Co., Ansonia, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Commutator Co., Minneapolis, Minn.
Eureka Tempered Copper Works, North East,
Forest City Electric Co., Cleveland, O. Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Jefferson Brass Foundry, 209 King, Brooklyn, N. Y.
Keystone Drop Forge Works (Segments Drop Forged to Order), Chester, Pa.
Marshall, R. W. & Co., 50 Church, New York
Page-Storms Drop Forge Co. (Segments Drop Forged from Pure Unalloyed Copper), Chicopee, Mass.
Rome Brass & Copper Co., Rome, N. Y.
Rome Tube Co., Rome, N. Y.
**WESTINGHOUSE ELECTRIC & MFG. Co.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 360— Bars (Digging)

Atha Tool Co. (Telegraph), Newark, N. J.
Buckeye Mfg. Co., Canton, O.
Oliver Iron & Steel Co., Pittsburg, Pa.
Roberts, Geo., Pittsburg, Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.

## 361— Bars (Draw)

Pittsburg Forge & Iron Co., Pittsburg, Pa.
Pratt & Letchworth Co., Buffalo, N. Y.

## 362— Bars (Extension)

Grabler Mfg. Co., Cleveland, O.

## 363— Bars (Eye)

American Bridge Co., Pittsburg, Pa. & New York
Cambria Steel Co., Johnstown, Pa.
Meehan Boiler & Construction Co. (Upset), Lowellville, O.
Penna. Steel Co., 1421 Chestnut, Phila., Pa.; Mills: Steelton, Pa.
Phoenix Iron Co. (Upset), 410 Walnut, Phila., Pa.; Mills: Phoenixville, Pa

## 364— Bars (Finger)

Cambria Steel Co. (Cold Rolled & Cold Drawn Steel), Johnstown, Pa.
Jones & Laughlin Steel Co. (Cold Rolled Mower & Reaper), Pittsburg, Pa.

## 365— Bars (Hop & Post)

Munnsville Plow Co., Munnsville, N. Y.

## 366— Bars (Ice)

White, L. & I. J. Co., Buffalo, N. Y.

## 367—Bars (Lining & Tamping)

Allen, Edgar, American Manganese Steel Co. Manganese Steels), 193 Michigan av, Chicago, Ill.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Buckeye Mfg. Co., Canton, O.
Columbus Handle & Tool Co., Columbus, Ind.
Dicke Tool Co., Downers Grove, Ill.
Evansville Tool Works, Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co. ("Jackson," "Hoxie"), 212 N 3d, St. Louis, Mo.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Klein, Mathias & Son ("Klein's Tamping"), 562 W Van Buren, Chicago, Ill.
Klein-Logan Co., Pittsburg, Pa.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Meckel, Fred. L., 11 E 13th, Chicago, Ill.
New Castle Forge & Bolt Co., New Castle,
Oliver Iron & Steel Co., Pittsburg, Pa. Pa.
Oshkosh Logging Tool Co. (Tamping Only), Oshkosh, Wis.
**PITTSBURG SHOVEL CO., Oliver** bldg., Pittsburg, Pa. Works: Leechburg, Pa. (See adv. index, end of book)
Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works: Cheswick, Pa.
Plumb, Fayette R., Frankford, Phila., Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona,
Warwood Tool Co., Wheeling, W. Va. Pa.
Western Tool & Forge Co., Brackenridge, Pa.

## 368—Bars (Low Phosphorus Melting)

Samuel, Frank (Firm of) ("Howe" & "Samuels"), 1502 Market, Philadelphia, Pa.

## 369— Bars (Mine Spike)

Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works, Cheswick, Pa.

## 370— Bars (Pinch)

(See also Car Movers or Pushers)

Beall Bros. (Inc.), Alton, Ill.
Braunsdorf-Mueller Co. (Bricklayers'), Elizabeth, N. J.
**BUFFUM TOOL CO. (Packing House,** Cane Shaped, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)
Collins Co., Collinsville, Conn.
Crescent Novelty Mfg. Co., St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falls Mfg. Co., San Francisco, Cal.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick" Miners'); Works, Cheswick, Pa.
Verona Tool Works (Locomotive), Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co. (Coal Miners, etc.), Wheeling, W. Va.
**WEBSTER MFG. CO. ("Sheldon" & "Champion"),** 2410 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Western Tool & Forge Co., Brackenridge, Pa.
What Cheer Tool Co. ("What Cheer" Solid Steel), What Cheer, Ia.

## 371— Bars (Quarry)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co. (Heavy), Newark, N. J.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**SULLIVAN MACHINERY CO. (Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**

## Bars (Reinforcing)

(See Reinforced Concrete Bars)

## 372— Bars (Shackle)

Atha Tool Co., Newark, N. J.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.

## 373— Bars (Shaft)

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 374— Bars (Shutter)

Brass Goods Mfg. Co., 280 Nevins, Brooklyn, N. Y.
Corbin, P. & F. Co., New Britain, Conn.
Judd, H. L. Co., 87 Chambers, New York
Mallory, Wheeler Co., New Haven, Conn.
Norwalk Lock Co., S. Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son, (Fire Shutter Bars. Wrought Iron), 1934 N Front, Phila. Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 375— Bars (Splice)

(See also Braces, Rail)

Buckeye Rolling Mill Co., Steubenville, O. & Newark, O.
Cambria Steel Co. (Cold Rolled & Cold Drawn Steel), Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver Col.
Illionis Steel Co., Commercial B'k bldg, Chicago, Ill.
Interstate Iron & Steel Co. (High Carbon Steel), 1st Nat'l Bank bldg, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Knoxville Iron Co., Knoxville, Tenn.
Lackawanna Steel Co., Buffalo, N. Y.
Linton Rolling Mill Co., Linton, Ind.
Penn Iron Co. (Iron), Lancaster, Pa.
Pennsylvania Steel Co., 1421 Chestnut, Phila., Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Sellers Mfg. Co. (Iron; also Sansom Bars), 138 Jackson boul., Chicago, Ill.
Sweet's Steel Co., Williamsport, Pa.
Tredegar Co., Richmond, Va.

## 376— Bars (Switch)

**CONTINENTAL FIBRE CO. (Hard** Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)

## 377— Bars (Tamp, Mining)

What Cheer Tool Co., What Cheer, Ia.

## 378— Bars (Tie)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 379— Bars (Towel)

Boston Mirror Co. (Crystal), Boston, Mass.
Parker, Charles Co., Meriden, Conn.
Reed Glass Specialty Co. ("Economy," Glass Rod), 25 W B'way, New York
Superior Brass Novelty Co. (Brass), 134 William, New York
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## Bars (Transom)

(See Metallic Sash Bars)

## 380—Bars & Plates (Paper Mill)

Eagle Knife & Bar Co., Lawrence, Mass.
Holyoke Bar Co., Holyoke, Mass.
Simonda, A. A. & Son Co., Dayton, O.

## 381— Barytes

(See also Carbonate of Barytes)

Avery Chemical Co., Boston, Mass.
Davidson, Jas. H. (Inc.), 239 Front, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Finck, J. C. Mineral Milling Co., St. Louis, Mo.
Gabriel & Schall (Sulphate & Carbonate), 205 Pearl, New York
Gilman, Wm. D. Co. (Miners), 22 S 3d, Phila., Pa.
Kentucky Barytes Co., Nicholasville, Ky.
Nuisen, Klein & Krausse Mfg. Co., St. Louis, Mo.
Osborn, Clarence J. (Broker, Miners), 284 Pearl, New York
Point Milling & Mfg. Co., Mineral Point, Mo.
Salomon, L. A. & Bro. (Sulphate & Carbonate), 216 Pearl, New York
Scheel, Wm. H., 159 Maiden la, New York
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Standard Mining Co., Asheville, N. C.
Tennant, C. Sons & Co., 76 William, New York
Whittaker, W. H., 245 Front, New York
Williams, Jno. T. & Son (Triple Floated), Bristol, Tenn.

## 382— Base Ball Base Plates

**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)

## 383—Base Ball Body Protectors

**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)

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## 384— Base Ball Mfrs.

Carr, J. Base Ball Co., 660 Pacific, Brooklyn, N. Y.
Chicago Sporting Goods Mfg. Co., 1115 Fulton, Chicago, Ill.
De Beer, Jacob, Johnstown, N. Y.
Draper & Maynard Co., Plymouth, N. H.
Goldsmith's, P. Sons, Cincinnati, O.
Harwood, H. & Sons, Natick, Mass.
National Base Ball Mfg. Co., Schenectady, N. Y.
Piper, B. H. Co., Manchester, N. H.
Pontiac Turning Co., Pontiac, Mich.
Rademaker, H. & Sons, Grand Rapids, Mich.
Reach, A. J. Co., Tulip & Palmer, Phila., Pa.
Rogers-Meiser Mfg. Co., Paragould, Ark.
Rogers Sporting Goods Co., Springfield, Mass.
South Bend Toy Mfg. Co., South Bend, Ind.
Spalding, A. G. & Bros., 126 Nassau, New York
Victor Sporting Goods Co., Springfield, Mass.
Young, Geo. & Co., 715 S Western av, Chicago, Ill.
Zimmerman, J. N., Owosso, Mich.

## 385—Bases (Battery Cut Out)

American Enamel Co., Providence, R. I.
Bogert & Hopper, 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Klumpp's, J. G. Sons, 13 Baxter, New York
Rauscher, Jno., St. Paul, Minn.
**STILES, H. A. & CO., 161 High, Boston, Mass.** (See adv. index, end of book)
Union Hardware Co., Torrington, Conn.

## 386—Bases (Incandescent Lamp)

Bliss-Chester Co., Providence, R. I.
Bridgeport Brass Co., Bridgeport, Conn.
Bryant Electric Co., Bridgeport, Conn.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Providence Gas Burner Co., Providence, R. I.
Scovill Mfg. Co., Waterbury,, Conn.
Steel & Johnson Mfg. Co., Waterbury, Conn.
Turner & Seymour Mfg. Co., Torrington, Conn.
Waterbury Mfg. Co., Waterbury, Conn.
**White, J. H. Mfg. Co., 111 N 3d, Brooklyn, N. Y.**

## 387— Bases (Oil Cup)

**LUNKENHEIMER CO. (Pressure-Oiling Systems),** General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**PITTSBURG GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburg, Pa. (See adv. index, end of book)

## 388— Bases (Post)

**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)

## 389— Bases (Switch)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 390— Bases (Trolley)

**Bayonet Trolley Harp Co., Springfield, O.**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Holland Trolley Supply Co. (Ball Bearing), Cleveland, O.
**NUTTALL, R. D. CO. ("Union"), Fayette & Garrison pl., Pittsburg, Pa.** (See adv. index, end of book)
Recording Register & Fare Box Co. ("Kelsey"), New Haven, Conn.
Sterling-Meaker Co. ("Sterling" Roller Bearing), 420 Ogden av, Newark, N. J.
**Trolley Supply Co. ("National," "Peerless" Roller Bearing, "National"), Canton, O.**

## 391— Basins (Catch)

**BROWN BROS. MFG. CO., 22d & Campbell av,** Chicago, Ill. (See adv. index & branch offices, end of book)
Burch Plow Works, Crestline, O.
Burr, E. M. Co., Champaign, Ill.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Decatur Foundry Furnace & Machine Co., Decatur, Ind.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Duplex Mfg. & Foundry Co., Cleveland, O.
Hartford Foundry Corporation ("Duplex"), Hartford, Conn.
Galena Foundry & Machine Co., Galena, Kan.
Holbrook-Armstrong Iron Co., Racine, Wis.
Industrial Iron Works, Clinton, Mo.
**MacKINNON BOILER & MACHINE Co., Bay City, Mich.** (See adv. index, end of book)
Madison Foundry Co., Cleveland, O.
**Portsmouth Machine & Casting Co., Portsmouth, O.**
Reeves Foundry Co., Trenton, N. J.
Sessions Foundry Co., Bristol, Conn.

## 392— Baskets (Clothes)

Peru Basket Co. (Splint, Reed, etc.), Peru, Ind.

## 393— Baskets (Coal, Etc.)

Ballou Mfg. Co., Belden, Mich.
Bryant, Jno. T., Springfield, Mass.
Edgerton Mfg. Co., Plymouth, Md.
Peru Basket Co. (Iron Bound, Bamboo, etc.), Peru, Ind.

## 394— Baskets (Counter Display)

Hamblin & Russell Mfg. Co., Worcester, Mass.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Parker Wire Goods Co., Worcester, Mass.
Progressive Wire Goods Co., 529 Commerce, Philadelphia, Pa.
Wire Goods Co. (Wire), Worcester, Mass.

## 395—Baskets (Delivery & Market)

New Albany Box & Basket Co. (Splint), New Albany, Ind.
Peru Basket Co. (Bamboo & Splint), Peru, Ind.

## 396— Baskets (Dipping)

**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)
**WRIGHT WIRE CO. (Steel & Brass Wire), Worcester, Mass.** (See adv. index & branch offices, end of book)

## 397—Baskets (Galvanized Iron)

Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Lisk Mfg. Co. (Ltd.) ("Lisk," Aluminum Galvanized), Canandaigua, N. Y.
National Enameling & Stamping Co., 374 B'way, New York
Republic Metal Ware Co., Buffalo, N. Y.
Rochester Stamping Co., Rochester, N. Y.
Wheeling Corrugating Co., Wheeling, W. Va.

## 398—Baskets, Hampers & Touring Cases (Automobile)

A. Z. Co. (Metal Hampers), 527 W. 56th, New York
Baillie Basket Co., 82 Sudbury, Boston, Mass.
Boyle, John & Co., 114 Duane, New York
Burlington Basket Co., Burlington, Ia.
Chicago Willow Ware Co., 542 E. 47th, Chicago, Ill.
Fuller, G. W. Co., Hartford, Conn.
Heywood Bros. & Wakefield Co., Gardner, Mass.
Holbrook Rawhide Co., Providence, R. I.
Kroh, C. Z. Mfg. Co., Toledo, O.
Leipzig, A. (Inc.), 127 W 17th, New York
Morrison, L. E. & Co., Indianapolis, Ind.
Nathan Novelty Mfg. Co., 88 Reade, New York
Niagara Auto Radiator Co. (Metal Hampers), 151 W 68th, New York
Peru Basket Co., Peru, Ind.
Post & Lester Co., Hartford, Conn.
Rattan Mfg. Co., New Haven, Conn.
Reliance Auto Parts Mfg. Co. (Metal Hampers), 244 W 4th, New York
Rumpp, C. F. & Sons (Luncheon Baskets), 5th & Cherry, Phila., Pa.
Sterling Mfg. Co., 611 W 55th, New York
Taylor, C. A. Trunk Works, 39 E Randolph, Chicago, Ill.
Williams Mfg. Co. (Ash or Rattan), Northampton, Mass.
Winship, W. W., 71 Summer, Boston, Mass.

## 399— Baskets (Mill)

**AMERICAN VULCANIZED FIBRE CO. ("Laminar" Dept.), Wilmington, Del.** (See adv. index, end of book)
**Ballou Mfg. Co., Belding, Mich.**
**Ballou, M. E. & Son, Becket, Mass.**
**Burlington Basket Co. (Canvas), Burlington, Ia.**
**CONTINENTAL FIBRE CO. (Vulcanized Fibre), Newark Centre, Del.** (See adv. index & branches offices, end of book)
**Crane Bros., Westfield, Mass.**
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del.** (See adv. index, end of book)
Holbrook Rawhide Co., Providence, R. I.
Houghton, E. F. & Co., (Hand Split Oak), 240 Somerset, Phila. Pa.
Lane, W. T. & Bro., (Canvas & Steel Frame), Poughkeepsie, N. Y.
Leatheroid Mfg. Co., Kennebunk, Me.
Morris & Co. (Cotton Duck), Groveville, N. J.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Spaulding-Perkins Co. (Fibre), North Rochester, N. H.
Williams Mfg. Co., (Bamboo or Oak, also Iron Strapped & Iron Wheels or Casters), Northampton, Mass.

## 400— Baskets (Rawhide)

Barlow, John W. Co., Lawrence, Mass.
Holbrook Rawhide Co., Providence, R. I.

## 401— Baskets (Sheet Steel)

Erie Art Metal Co., Erie, Pa.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.

## 402— Baskets (Stave)

New Albany Box & Basket Co., New Albany, Ind.
Peru Basket Co., Peru, Ind.

## 403— Baskets (Waste Paper)

**AMERICAN VULCANIZED FIBRE CO. (Fibre), Wilmington, Del.** (See adv. index, end of book)
Andrews Wire & Iron Works (Wire), Rockford, Ill.
Barbee Wire & Iron Works (Wire), 44 Dearborn, Chicago, Ill.
**BERGER MFG. CO., THE (Steel),** Canton, O. (See adv. index & branch offices, end of book)
Crane Bros. (Fibre), Westfield, Mass.
**DIAMOND STATE FIBRE CO.** (Fibre), Elsmere, Del. (See adv. index, end of book)
Duggan-Reder Co. (Cold Rolled Steel, Oxidized, Copper or Brushed Brass), Erie, Pa.
Erie Art Metal Co. (Metal), Erie, Pa.
**ESTEY WIRE WORKS CO. (Wire),** 59 Fulton, New York. (See adv. index, end of book)
**Hamblin & Russell Mfg. Co., Worcester, Mass.**
**Heywood Bros. & Wakefield Co. (Willow), Gardner, Mass.**
National Mfg. Co. (Wire), Worcester, Mass.
Peru Basket Co. (Bamboo & Splint), Peru, Ind.
**Progressive Wire Goods Co.** (Wire), 529 Commerce, Phila., Pa.
Standard Wire Co. (Wire), New Castle, Pa.
**Tatum, Sam'l C. Co.** (Wire), Cincinnati, O.
**Williams Mfg. Co. (Rattan, etc.), Northampton, Mass.**
Wire Goods Co. (Wire), Worcester, Mass.
Wire Hardware Co., 1824 Besly Court, Chicago, Ill.

## 404— Baskets (Wire)

**Andrews Wire & Iron Works, Rockford, Ill.**
Barber Wire & Iron Works, Lafayette, Ind.
Buffalo Wire Works Co., Buffalo, N. Y.
**City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.**
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**Hamblin & Russell Mfg. Co., Worcester, Mass.**
Munger Wire Basket Co., Massillon, O.
Progressive Wire Goods Co. (And Office Wire Goods), 529 Commerce, Phila., Pa.
Ruhmann, G. E., Schulenberg, Texas
Seiferlein Wire & Iron Works, Detroit, Mich.
Standard Wire Co., New Castle, Pa.
Wire Hardware Co., Chicago, Ill.
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 405— Basswood

**Black, Robt. & Co., Bay City, Mich.**
**Doud Sons & Co., Winona, Minn.**
**Dulweber, Jno. & Co., Cincinnati, O.**
**Dwight Lumber Co., Detroit, Mich.**
**Elias. G. & Bro., 965 Elk, Buffalo, N. Y.**
**Grand Rapids Veneer Co., Grand Rapids, Mich.**
Goodwillie Bros., 171 La Salle, Chicago, Ill.
**Jones Hardwood Co., 33 Broad, Boston, Mass.**

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## 406— Batch Mixing Plants

Heyl & Patterson, Pittsburg, Pa.
**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)

## 407—Bath Cabinets (Thermal, Etc.)

**Cabinet Mfg. Co., Quincy, Ill.**
Feix & Goethel, Milwaukee, Wis.
Houchin, Thos. W. Co., 318 B'way, New York
Robinson Mfg. Co., Toledo, O.
**Toledo Cooker Co. ("Ideal" Vapor), Toledo, O.**

## 408—Bath Room Fixtures & Furnishings

American Pin Co., Waterbury, Conn.
American Ring Co., Waterbury, Conn.
Anderson, Geo. H. & Co. (Plate Glass, Towel Bars, Shelves, etc.), 1458 W Kinzie, Chicago, Ill.
Badger Brass Mfg. Co., Kenosha, Wis.
**Bailey-Farrell Mfg. Co., Pittsburg, Pa.**
Barrett, Jas. Mfg. Co., Boston, Mass.
Behrer & Co., 81 Beekman, New York.
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Blessing, C. A., 518 Montgomery Ave., Philadelphia, Pa.
Boston Mirror Co. (Mirrors, Glass Shelves), etc.), 67 Sudbury, Boston, Mass.
Brooks, M. S. & Son (Three Arm), Chester, Conn.
Buffalo Mfg. Co. (Soap & Sponge Holders, Towel Racks, etc.), 1444 Niagara, Buffalo, N. Y.
Buffalo Specialty Mfg. Co., (Adjustable Seats), Buffalo, N. Y.
Cantslip Bath Tub Appliance Co. ("Cantslip" Mats), 56 Pine, New York
Central Specialty Mfg. Co., 508 S Peoria, Chambers & Co., Newark, N. J. Chicago, Ill.
Clarke, Robert, 100 Schermerhorn, Brooklyn,
Climax Specialty Co., Ann Arbor, Mich. N. Y.
Clow, Jas. B & Sons, 344 Franklin, Chicago.
Columbus Brass Co., Columbus, O. Ill.
**Dalton-Ingersoll Mfg. Co., 171 High, Boston.**
Dayton Mfg. Co., Dayton, O. Mass.
Dearborn Brass Co., Cedar Rapids, Ia.
Detroit Sanitary Supply Co., Detroit, Mich.
**Diamond Mfg. Co., Detroit, Mich.**
Douglas, Jno. Co., Cincinnati, O.
Edwardsville Brass Co. (Soap Cups, Tumbler-Holders, Comb & Brush Trays, Bath Seats, etc.), Edwardsville, Ill.
Eustis, J. P. Mfg. Co., Cambridge, Mass.
Federal-Huber Co., Halsted & Fulton, Chicago. Ill., & 244 5th av, New York
Feix & Goethel, Milwaukee, Wis.
Forsyth Mfg. Co. (Towel Bars, Tumbler Holder, Comb & Brush Shelf, Soap Tray, etc.), Buffalo, N. Y.
**Frost Mfg. Co., Kenosha, Wis.**
Garden City Plating & Mfg. Co., 1430 S Talman av, Chicago, Ill.
**Haines, Jones & Cadbury Co., 1130 Ridge av Phila., Pa.**
Hamblin & Russell Mfg. Co. (Wire), Worcester, Mass.
Haydenville Co., Haydenville, Mass. Mass.
Heap, Wm. & Sons, Grand Haven, Mich.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Ideal Mfg. Co., Detroit, Mich.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
**Kokomo Brass Works (Byrne & Ryan, Chicago, Owners), Kokomo, Ind.**
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
**Manhattan Brass Co., 338 E 28th, New York**
Manhattan Electrical Supply Co., 17 Park pl., New York, & 188 5th av, Chicago, Ill.
Manning, Bowman & Co., Meriden, Conn.
**Merrie, Hugh, 226 E. 9th. Cincinnati, O.**
Meyer-Sniffen Co. (Ltd.), 5 E 19th, New York
**Milwaukee Brass Mfg. Co., Milwaukee, Wis.**
**Mott, J. L. Iron Works, 118 5th av, New York**
**Murdock Mfg. & Supply Co., Cincinnati, O.**
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
**National Supply Co., Toledo. O.**
**Nelson, N. O. Mfg. Co., St. Louis, Mo.**
**Novelty Mfg. Co. (Trimmings, Soap Dishes, Racks, etc.), Waterbury, Conn.**
**Park & McKay Co., Detroit, Mich.**
Parker, Chas. Co., Meriden, Conn.
Peck Bros. & Co., New Haven, Conn.
Perine Bath Room Specialty Co., 352 Pearl, New York
Pittsburg Lamp, Brass & Glass Co., Pittsburg,
Regester, J. & Sons Co., Baltimore, Md. Pa.
**Rundle-Spence Mfg. Co., Milwaukee, Wis.**
Ryan, J. J. & Co., Chicago, Ill.
Sanitary Co., Cleveland, O.
**Sargent & Co., New Haven, Conn.**
**Savill, Thos. & Sons, 11th & Wood, Phila., Pa.**
Searls Mfg. Co. ("Palette Brand"), Newark, N. J.
**Smith, E. C. Mfg. Co., 224 Washington, Chicago, Ill.**
**Smith & Anthony Co., 48 Union, Boston, Mass.**
Spence Mfg. Co., Milwaukee, Wis.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbings, E. Mfg. Co., Springfield, Mass.
**Sternau, S. & Co., 195 Plymouth, Brooklyn, N. Y.**
**Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.**
Sweeney, W. H. Mfg. Co. (Soap Dishes, Towel Bars, Brush & Tumbler Holders, etc.), 30 Main, Brooklyn, N. Y.
Taylor, Geo., 97 Cliff, New York
Troy Nickel Works, Jno. E. Gaitley, Prop. (Revolving Towel Rack, etc.), Albany, N. Y.
Trenton Brass & Machine Co., Trenton, N. J.
Trenton Potteries Co. (Bone China), Trenton, N. J.
Van Arnam Mfg. Co., Fort Wayne, Ind.
**Waterbury Mfg. Co. (Bath Sprays, etc.), Waterbury, Conn.**
Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
**West Mfg. Co., Columbus, O.**
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Wolverine Brass Works (Towel Bars, Soap Cups, etc.), Grand Rapids, Mich.
**WORCESTER PRESSED STEEL CO.**, Worcester, Mass. (See adv. index & branch offices, end of book)

## 408a—Bath Tubs (Ceramic)

(See Bath Tubs, Porcelain)

## 409— Bath Tubs (Copper)

(See also Boilers, Copper Range)

**Blessing, C. A., 516 Montgomery av, Phila., Pa.**
Detroit Bath Tub & Brass Co., Detroit, Mich.
**Fleck Bros Co., 44 N 5th, Phila., Pa.**
Leclair Mfg. Co., Edwardsville, Ill.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
**Ronalds & Johnson Co., 43 Boerum pl, Brooklyn, N. Y., & 54 Cliff, New York.**
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
Trageser, John Steam Copper Works, 427 W 26th, New York.
**Walker Mfg. & Supply Co., Detroit, Mich.**

## 410—Bath Tubs (Enameled Iron)

Barnes Mfg. Co., Mansfield, O.
Cahill Iron Works, Chattanooga, Tenn.
Colwell Lead Co., 109 Lafayette, New York
Day-Ward Co., Warren, O.
Humphryes Mfg. Co., Mansfield, O.
Iron City Sanitary Mfg. Co., Pittsburg, Pa. Works, Zelienople, Pa.
Kerner Mfg. Co., Pittsburg, Pa.
**Kohler's, J. M. Sons Co., Sheboygan, Wis.**
Limberg Foundry & Enameling Works. Florence rd, Cincinnati, O.
Lipp, Louis Co., Winton pl, Cincinnati, O.
McCrum-Howell Co., 103 Park av, New York
McVay-Walker Co., Braddock, Pa.
Mott, J. L. Iron Works, 118 5th av, New York
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
National Sanitary Mfg. Co., Salem, O.
Rundle Mfg. Co., Milwaukee, Wis.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
**Stuart & Peterson Co., Burlington, N. J.**
Union Sanitary Mfg. Co., Noblesville, Ind.
United States Sanitary Mfg. Co., Arrott bldg., Pittsburg, Pa., & Monaca, Pa.
Weiskittle, Anton & Son Co., Baltimore, Md.
Wheeling Sanitary Mfg. Co. (Enameled Iron), Wheeling, W. Va.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 411— Bath Tubs (Folding)

Acme Folding Boat Co., Miamisburg, O.
**Davol Rubber Co. ("Robinson" Rubber), Providence, R. I.**

## 412—Bath Tubs (Galvanized Steel Enameled)

**Detroit Bath Tub & Brass Co., Detroit, Mich.**
**Walker Mfg. & Supply Co., Detroit, Mich.**

## 413— Bath Tubs (Infants')

**Central Stamping Co., 174 Fulton, New York**
Geuder & Paeschke & Frey Co. (Galvanized, Japanned & Enameled Sheet Iron), Milwaukee, Wis.
**Lisk Mfg. Co. (Ltd.) ("Lisk" Anti-Rust), Canandaigua, N. Y.**

## 414— Bath Tubs (Porcelain)

**American Porcelain Co., New Brighton, Pa.**
**Monument Pottery Co., Trenton, N. J.**
**Mott, J. L. Iron Works, 118 5th av, New York**
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
**Standard Sanitary Pottery Co., Elizabeth, N. J.**
**Trenton Fire Clay & Porcelain Co., Trenton.**
**Trenton Potteries Co., Trenton. N. J. N. J.**
Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

## 415— Bath Tubs (Sheet Steel)

Detroit Bath Tub & Brass Co., Detroit, Mich.
**FRIEDLEY - VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
Leclaire Mfg. Co. ("& Steel Clad"), Edwardsville, Ill.
Trageser's, Jno., Steam Copper Works, 447 W 26th, New York
Walker Mfg. & Supply Co., Detroit, Mich.

## Bath Tubs (Slate)

(See Laundry Tubs, Slate)

## 416— Bath Tubs (Tin)

Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Dover Stamping & Mfg. Co. ("Enameled White Inside"), Cambridge, Mass.

## 417—Baths (Needle & Shower)

**Adee, Fred & Co., 44 Cliff, New York**
**Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.**
Colwell Lead Co., 109 Lafayette, New York
**Dalton-Ingersoll Mfg. Co., Boston, Mass.**
Douglas, Jno. Co., Cincinnati, O.
**Edwardsville Brass Co., Edwardsville, Ill.**
**Federal-Huber Co.**, Halsted & Fulton, Chicago, Ill.
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
Hoffman & Billings Mfg. Co. ("Niedecken," Mixer), Milwaukee, Wis.
**Hoffman & Billings Mfg. Co.**, Milwaukee, Wis.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Imco Mfg. Co. ("Imco" Showers), 162 E 52d, New York
Imperial Brass Mfg. Co. ("Ingram," Shower Mixer), 441 S Jefferson, Chicago, Ill.
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
**McElraevy & Hauck (Enameled Iron & Solid** Porcelain Nickle Plated Shower), 440 Broadway, Brooklyn, N. Y.
Mayor, Lane & Co., 340 Hudson, New York
**Meyer-Sniffen Co. (Ltd.), 11 W 36th, New York**
**Mott, J. L. Iron Works, 118 5th av, New York**
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Peck Bros. & Co., New Haven, Conn.
**Rundle-Spence Mfg. Co., Milwaukee, Wis.**
**Sanitary Company ("Paragon"), Cleveland, O.**
Sanitary Co. of America ("Mermaid"), 13th & Cumberland, Phila., Pa.
Space-Saving Appliance Co. ("Space-Saving," Shower), 139 W 20th, New York
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Street & Kent Mfg. Co., 549 Fulton, Chicago,
Taylor, Geo., 97 Cliff, New York Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 418—Baths (Plunge & Shower, for Ships)

**Dalton-Ingersoll Co., Boston, Mass.**

## 419—Baths (Portable Shower)

Cline Mfg. Co., 1239 Wabash av, Chicago, Ill.
Edwardsville Brass Co., Edwardsville, Ill.
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Sanitary Co. of America, 13th & Cumberland, Phila., Pa.
**Wolverine Brass Works, Grand Rapids, Mich.**

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## 420— Bats (Baseball)

**Chicago Sporting Goods Mfg. Co., Fulton & May, Chicago, Ill.**
**Estes, E. B. & Son, 74 Warren, New York**
**Goldsmith's Sons, P., Cincinnati, O.**
Granberg, Emil, St. Louis, Mo.
**Piper, B. H. Co., Manchester, N. H.**
**Pontiac Turning Co., Pontiac, Mich.**
**Rademaker, H. & Sons, Grand Rapids, Mich.**
**Rogers-Meiser Handle Co., Paragould, Ark.**
**Sidney Novelty Co., Sidney, N. Y.**
Simmons Hardware Co. ("Louisville Slugger"), St. Louis, Mo.
**South Bend Toy Mfg. Co., South Bend, Ind.**
Spalding, A. J. & Bros., 125 Nassau, New York
Wright & Ditson, Boston, Mass.
**Zimmerman, J. M., Owosso, Mich.**

## 420a—Batteries (Automobile)

(See Batteries, Dry; also Batteries, Storage)

## 421— Batteries (Blasting)

(See also Blasting Fuse, Caps, Etc.)

**du PONT, E. I., de NEMOURS POWder Co.** ("du Pont Pocket"), Wilmington, Del. (See adv. index & branch offices, end of book)
Macbeth Fuse Works ("Victor," "Pull-Up," "U. S. Standard"), Pompton Lake, N. J.
Star Electric Fuse Works ("Lilliput," "Push-Down"), Wilkesbarre,, Pa.

## Batteries (Closed Circuit)

(See Batteries, Open & Closed Circuit)

## 422— Batteries (Dry)

A. D. L. Auto Cell Co., 106 W 30th, New
Allen, D. H. & Co., Miamisburg, O. York
American Carbon & Battery Co. ("American"), St. Louis, Mo.
American Endoscopic Co., Providence, R. I.
**American Ever Ready Co. ("Ever Ready"), 304 Hudson, New York**
American Telephone Co., 64th & State, Chicago, Ill.
Ampere Mfg. Co., 42 B'way, New York.
Badger Gas & Gasoline Engine Co., Kansas City, Kan.
**Bunnell, J. H. & Co. ("Jove," "Standard," "Mascot" & "Best"), Park pl & Church, New York**
Burnley Battery & Mfg. Co. ("Burnley"), North East, Pa.
Cary, Edw. E. Co., 59 Park pl, New York.
**Chloride of Silver Dry Cell Battery Co., Baltimore, Md.**
Cracraft, Leich Electric Co. ("Eureka"), Genoa, Ill.
Crown Battery Co., 192 S boul, New York
Day & Night Battery Co., Danvers, Mass.
Delta Mfg. Co., Bloomfield, N. J.
Eastern Carbon Works ("Hercules," "High Grade," "Gas Engine," "Atlantic"), Jersey City, N. J.
**Electric Appliance Co., Burlington, Kan.**
Electric Goods Mfg. Co. ("Sammon," Semi-Dry), Boston, Mass.
Electric Mfg. Co. ("Emco" Sealed), St. Paul, Minn.
Elkhart Electric-Carno Co., Elkhart, Ind.
Empire State Dry Battery Co. ("Red-Star," "White-Star"), 55 Dey, New York
Excelsior Supply Co. ("Xler"), 233 Randolph, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481**
Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fletcher-Stanley Co., ,32 Franklin, New York
Franco-American Elec. Novelty Co., 111 Chambers, New York
French Battery & Carbon Co. ("Fleur-de-Lis"), Madison, Wis.
Harper, Fred D., Everett, Mass.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Heinrich Electrical Novelty Co., 191½ Fulton, New York
Hirliman, C. J., 17 Laight, New York
Hite Electric Co., 307 S 2nd, Phila., Pa.
Holtzer-Cabot Electric Co., Brookline, Mass.
Hubbs-Neer Electrical Mfg. Co. ("20th Century"), Butler, O
Irish, W. F., Electric Co. ("Shamrock," "Emerald"), 60 Cortlandt, New York
**JOHNS, H. W.-MANVILLE CO.** ("J-M"), 100 William, New York. (See adv. index & branch offices, end of book)
Lincoln Electric Co. ("Enburo," "Hi-Po") Union sq, New York
Long Distance Telephone Mfg Co., South Bend Ind.
Lutz-Lockwood Mfg. Co. ("Gordon," "O-K," "S-X"), Roselle, N. J.
Manhattan Electric Supply Co. ("Red Seal" & "Mesco"), 17 Park pl., New York
Mystic Electric Gas Lighter Co., 119 Bible House, New York
National Carbon Co. ("Columbia," "Red Top," "Stand-By," "Globe"), Cleveland, O.
North Electric Co. ("Cannon Cracker"), Cleveland, ,O
Nungesser Electric Battery Co. ("Acme," "1900," "Rapid Fire," "Ignio"), Cleveland.
Ohio Electric Works, Cleveland, O. Ohio
Reykal Electric Co., 143 Liberty, New York
Roche, Wm. ("Blue Ribbon," "Autogas," "New Standard"), Jersey City, N. J.
Rock Island Battery Co., Cincinnati, O.
Sibley & Pitman ("Climax" Auto Cells for Automobile & Gas Engine Ignition), 26 Warren, New York
Stackpole Battery Co., ("Elk," "Autocrat," "Radium," "Hello," "Wizard," "Sun"). St. Marys, Pa
Standard Sheet Metal Co. ("Rayflex" for Flash Lights), Passaic, N. J.
Stanley & Patterson ("Exerter," "Matchless"), 23 Murray, New York
Star Electric Co., Niles, O.
Tardie, Emil J., 221 6th av, New York
Union Battery Co., Belleville, N. J.
United Electrical Mfg. Co. ("Crescent"), 1 B'way, New York
Universal Novelty Co. ("Universal"), 163 W 29th, New York
Vallee, Garrett A. & Co. ("Ajax"), Land Title bldg., Phila., Pa.
Voltamp Electric Mfg. Co., Baltimore, Md.
Wappler Electric Controller Co., 177 E 87th New York
Waterbury Battery Co. ("Gee Whiz"), Waterbury, Conn.
Wesco Supply Co. ("Red Shield"), St. Louis, Mo.
West Coast Mfg. Co. ("Sunset"), San Francisco, Cal.
Westchester Appliance Co., Yonkers, N. Y.
Western Electric Co. ("999," "Pony," "Liberty," "Blue Bell"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, H. Battery Co. ("Helm"), 70 Frost, Brooklyn, N. Y.

## 422a— Batteries (Ignition)

**DELTA MFG. CO., Poughkeepsie,** N. Y.

## 423— Batteries (Medical)

(And Electro Medical Apparatus)

Birtman Electric Co., 12 S Clinton, Chicago, Ill.
**Bunnell, J. H. & Co. ("No.-4-D-D," "No. 6," "Milford," "Auto Kure"), Park pl & Church, New York**
Chloride of Silver Dry Cell Battery Co., Baltimore, Md
Detroit Medical Battery Co., Detroit Mich.
Flemming, Otto, 1025 Arch, Phila., Pa.
Ford, W. F. & Co., 425 5th av, New York
Gorman Electric Co., St. Paul, Minn.
Hite Electric Co., 307 S 2d, Phila., Pa.
International Instrument Co., Cambridge, Mass
Jones & Gross Electric Co. ("Meteor"), 62 Vesey, New York
Kendrick & Davis ("Sparker"), Lebanon, N. H.
Keystone Electric Co., 135 S 10th, Phia., Pa.
Kidder, Jerome Mfg. Co., 70 Bible House, New York
Knapp Elec. & Novelty Co. ("Verilife," "Electrohits"), 511 W 51st, New York
McElliott, D. P., 41 State, Chicago, Ill.
McIntosh Battery & Optical Co., 227 E Washington, Chicago, Ill
Manhattan Electrical Supply Co. ("Home," "Anti-Doc"), 17 Park pl, New York
Manufacturers & Investors Electric Co., 82 Nassau, New York
Nenominee Elec. Mfg. Co., Nenominee, Mich.
Meyer, Wm. Co., 12 S Clinton, Chicago, Ill.
Meyrowitz Mfg Co. ("Vetter"), 104 E 23rd New York
Ohio Electric Works, Cleveland, O.
Ostrander, W. R. & Co., 22 Dey, New York
Partrick, Carter & Wilkins Co., 22nd & Wood, Phila., Pa.
Pignolet, Louis M., 78 Cortlandt, New York
Pullen, Leon W. Co., 618 Chestnut, Phila., Pa.
Scheidel-Western X Ray Coil Co., 547 W Jackson blvd, Chicago, Ill.
Shoenberg, Milton H., San Francisco, Cal.
Stanley & Patterson ("Electrotonic," "Vetter"), 23 Murray, New York
Tardie, E. J., 221 6th av, New York
Ullery, J. E. & Co., 4107 Cottage Grove av, Chicago, Ill.
Van Houten & Ten Broeck, 214 E 23rd, New
Voltamp Elec. Mfg. Co., Baltimore, Md. York
Waite & Bartlett Mfg. Co., 113 W 31st, New York
Wappler Elec. Controller Co., 177 E 87th, New
Williams, E. Q., Syracuse, N. Y. York
Williams, Brown & Earle (Massey Controller), 918 Chestnut, Phila., Pa.

## 424—Batteries (Open & Closed Circuit)

(Open & Closed Circuit Wet Batteries)

American Carbon & Battery Co. ("New Phoenix"), St. Louis, Mo.
Battery Supplies Co. ("Gladstone-Lalande," "B. S. C. O."), Newark, N. J.
**Bunnell, J. H. & Co. ("Microphone"), Park pl & Church, New York**
Burn-Boston Battery & Mfg. Co., Boston, Mass.
Clark & Mills Elec. Co. ("Excello"), Cambridge, Mass.
Delta Mfg. Co. ("Delta"), Bloomfield, N. J.
Eastern Carbon Works, Jersey City, N. J.
Edison Mfg. Co., 10 5th av, New York
Electric Goods Mfg Co. ("Samson," "Nomas"), Boston, Mass.
Hite Electric Co., 307 S 2nd, Phila., Pa.
Jonas Battery Co. (Dry), Toledo, O.
Lutz-Lockwood Mfg. Co. ("Gordon"), Roselle, N. J.
Manhattan Electrical Supply Co., 17 Park Pl., New York
Muller, Albert ("Porox"), 145 W 49th, New York
National Carbon Co. ("Duplex," "Klondike," "Columbia"), Cleveland, O.
Nungesser Electric Battery Co. (Chloride of Silver), King av, N E, Cleveland, O.
Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Pullen, Leon W. Electric Co., 618 Chestnut, Phila., Pa.
Rhode Island Telephone & Electric Co., Providence, R. I.
Stanley & Patterson ("Gold Medal" & "Faraday"), 23 Murray, New York
Van Houten & Ten Broeck (Fitch), 214 E 23d, New York
Waterbury Battery Co. ("Victor," "Excelsior," "Schoenmehl"), Waterbury, Conn.
Western Electric Co. ("Weco"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
White, S. S. Dental Mfg. Co. ("Partz"), 1130 Chestnut, Phila., Pa.

## Batteries (Stamp)

(See Mills, Stamp)

## 425— Batteries (Storage)

Ajax Battery Co., 1532 Michigan av, Chicago, Ill.
American Battery Co. ("Invincible"), 1134 Fulton, Chicago, Ill.
American Storage Battery Co. ("Eckstromer"),
Apple Electric Co., Dayton, O. Boston, Mass.
**Battery Co., Milwaukee, Wis.**
Bison Storage Battery Co., Buffalo, N. Y.
Champion, Albert Co. ("B. G. S.," Imported), Boston, Mass.
Churcher Elec. & Mfg. Co., Cincinnati, O.
Columbia Battery Co., Minneapolis, Minn.
Commercial Battery Elec. Co. ("Combat"), 718 W Jackson boul, Chicago, Ill.
Constantine & Ludlam, 69 Beekman, New York
Dayton Electrical Mfg. Co. ("Hubler Dayton"), Dayton, O.
Dayton Mfg. Co., ("Silvey"), Dayton, O.
Decker Electrical Mfg. Co., Bullitt Bldg, Phila., Pa.
Eastern Battery Co., Pawtucket, R. I.
Edison Storage Battery Co. ("Edison"), Orange, N. J.
Electric Storage Battery Co. ("Exide," "Chloride" & "Tudor Accumulator"), 19th & Allegheny av, Phila., Pa.
Electric Supply & Battery Co., Cleveland, O.
Electric Supply & Storage Battery Co., Columbus, O.
Excelsior Supply Co. ("X. L. C. R."), 233 Randolph, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481**
Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Federal Mfg. Co., Lowell, Mass.**
Geiszler Bros., 514 W 57th, New York
General Accumulator & Battery Co. ("Radium"), Milwaukee, Wis.

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Gould Storage Battery Co., 345 5th av, New York
Heinrich Electrical Novelty Co., 192½ Fulton, Brooklyn, N. Y.
Helios Mfg. Co. ("Morrison"), Garden nr Brill, Bridesburg, Phila., Pa.
Hoopes Mfg. Co., Des Moines, Ia.
Hoosier Storage Battery Co. ("Fire-Fly"), Evansville, Ind.
Imperial Storage Battery Co., Quincy, Mass.
International Battery Co., 1531 N Halsted, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jewell Electric Co., 271 Michigan av, Chicago, Ill.
Knowles, C. S. ("Speed"), Boston, Mass.
Mac Rae, Hector C. ("Champion"), Baltimore, Md.
Michigan Storage Battery Co., Detroit, Mich.
Miller Signal Co. ("Bestogo"), Monadnock Bldg, Chicago, Ill.
Mound City Battery Co., St. Louis, Mo.
New England Motor Co. ("Rex"), Lowell, Mass.
Niagara Lead & Battery Co. ("Salom"), Niagara Falls, N. Y.
Northwestern Storage Battery Co., Milwaukee, Wis.
Phila. Storage Battery Co. (For Commercial & Pleasure Vehicles), E Ontaria & C, Phila., Pa.
Pumpelly Battery Co. ("Pumpelly" Spark Batteries for Automobiles, Motor Boats, etc.), Indianapolis, Ind.
Radio Battery Co., 43 Exchange pl, New York
R. I. Electromobile Co., 32 Fountain, Providence, R. I.
**Schug Elec. Mfg. Co., Detroit, Mich.**
Signalphone Alarm Co., Milwaukee, Wis.
Storage Battery Supply Co., 239 E 27th, New York
Syracuse Storage Battery Co., Syracuse, N. Y.
**Tray Plate Battery Co., Binghamton, N. Y.**
United States Light & Heating Co. ("National"), 30 Church, New York
**Universal Electric Storage Battery Co. ("Morrison"), 309 N Peoria, Chicago, Ill.**
**Vesta Accumulator Co., 1336 Michigan av, Chicago, Ill**
Vivax Storage Battery Co. ("Duro"), 2228 Michigan av, Chicago, Ill.
**Welsenborn Elec. Co. ("Ohio"), Dayton, O.**
**White City Electric Co., 377 Dearborn, Chicago, Ill.**
**Willard Storage Battery Co., Cleveland, O.**
Witherbee Igniter Co. (Ignition Only), 1876 B'way, New York
**Witherbee Igniter Co. (Ignition Only), 1876 W 42d, New York**
Zoar Battery Co. (Stationary & Portable Ignition), Zoar, O.

## 426— Battery Accessories

**NATIONAL ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O.** (See adv. index & branch offices, end of book)
Storage Battery Supply Co. (Of All Kinds), 239 E 27th, New York

## 427— Bauxite

Continental-American Ore Co., Boston, Mass.
National Bauxite Co., 3500 Gray's Ferry rd, Phila., Pa.
Republic Mining & Mfg. Co., Harrison bldg Phila., Pa
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

## 428— Bearing Parts (Roller)

**NATIONAL - ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O.** (See adv. index & branch offices, end of book)

## 428a—Bearings (Anti-Friction)

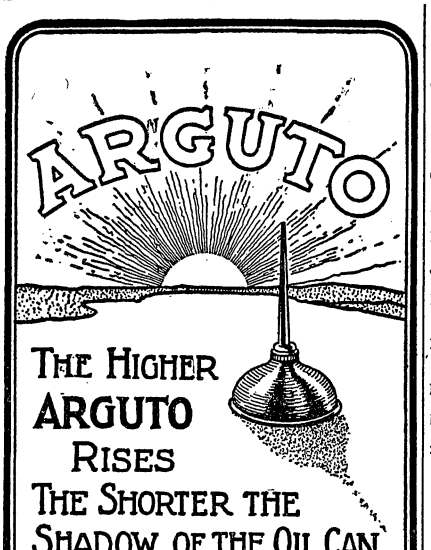
(See Babbitt Metal; also Bearings, Various Kinds; also Brasses, Car & Engine)

## 428b—Bearings ("Arguto" Oilless)

**ARGUTO OILLESS BEARING CO.** Wayne Junction, Phila., Pa. (See adv. index, end of book)

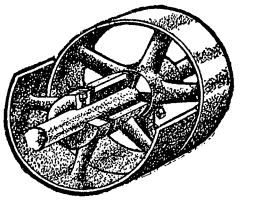
## 429— Bearings (Ball)

(See also Balls, Steel; also Bearings, Roller)
American Ball Bearing Co., Cleveland, O.
American Ball Co., Providence, R. I.
Auburn Ball Bearing Co., Rochester, N. Y.
Bantam Anti-Friction Co., Bantam, Conn.
Boston Gear Works (Thrust Collar, etc.), Norfolk Downs, Mass.


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THE SHORTER THE SHADOW OF THE OIL CAN

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We Can Prove It

ARGUTO OILLESS BEARING CO.

Wayne Junction, Phila., Pa.


Bretz, J. S. Co. ("F. & S"), 250 W 54th, New York
Camel Co. ("Hartman" Center Plate & Side for Cars), Old Colony bldg, Chicago, Ill.
Chapman Ball Bearing Co. (Double, for Shafting, etc.), Boston, Mass.
Fafnir Bearing Co., New Britain, Conn.
**FRASSE, PETER A. & CO., Canal** & Sullivan, New York. (See adv. index & branch offices, end of book)
Garford Co., Elyria, O.
Hurney Ball Bearing Co., Jamestown, N. Y.
Hess-Bright Mfg. Co. (Radial & Thrust), 21st & Fairmount av, Phila., Pa.
Horsburgh Forging Co., 5110 Hamilton, Cleveland, O.
**Johnson & Sharp Mfg. Co. (Hollow Steel), Ottumwa, Ia.**
**KNOWLTON, M. D. CO. (Thrust),** Rochester, N. Y. (See adv. index & branch offices, end of book)
Mark Mfg. Co., Evanston, Ill.
Mechanical Specialties Co., 684 Hancock, Brooklyn, N. Y.
New Departure Mfg. Co. ("Two-In-One"), Bristol, Conn.
Pressed Steel Mfg. Co. ("Knipe's"), Land Title bldg, Phila., Pa.
S. K. F. Ball Bearing Co. ("S. K. F."), 50 Church, New York
Sparks-Withington Co. (Ltd.), Jackson, Mich.
Standard Roller Bearing Co., (Thrust, etc.), 50th & Lancaster, Phila., Pa.
Suspension Roller Bearing Co., Sandusky, O.
Symington, T. H. Co. ("Baltimore"), Baltimore, Md.
**United Bearings Co. ("Clark" Universal), Bradford, Pa.**
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 430— Bearings (Bronze Metal)

Allan, A. & Son ("Allan"), 486 Greenwich, New York
Damascus Bronze Co. ("Damascus"), N. S. Pittsburg, Pa.
Eureka Tempered Copper Wks., North East, Pa.
Graphite Lubricating Co., Boundbrook, N. J.
Keystone Bronze Co., Pittsburg, Pa.
**LAWRENCEVILLE BRONZE CO., 31st & Penn av, Pittsburg, Pa.** (See adv. index, end of book)
**LUMEN BEARING CO., Buffalo, New York.** (See adv. index, end of book)
**NORTH AMERICAN METALINE CO.,** 4 West av, Long Island City, N. Y. (See adv. index, end of book)
North American Smelting Co., 900 Thompson, Phila., Pa.
Pittsburg White Metal Co., Pittsburg, Pa.
Reeves, P. S. & Son, 1415 Catherine, Phila., Pa.
Rider-Bagg Co., Springfield, Mass.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va.

## 430a—Bearings (Car Journal)

(See Bearings, Journal)

## 431—Bearings (Collar Oiling)

Hill Clutch Co. ("Hill"), Cleveland, O.

## 432—Bearings (Electrical, Motor, Etc.)

**ARGUTO OILLESS BEARING CO.** ("Arguto," Oilless), Wayne Junction, Phila., Pa. (See adv. index, end of book)
Brady Brass Co., Jersey City, N. J.
Columbia Machine Works & Malleable Iron Co. (For Armatures, etc.), 269 Chestnut, Brooklyn, N. Y.
Electric Railway Equipment Co., Cincinnati, O.
Electric Traction Supply Co., St. Louis, Mo.
Eureka Tempered Copper Wks, North East, Pa.
Frictionless Metal Co., Chattanooga, Tenn.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Graphite Lubricating Co. (Graphite), Boundbrook, N. J.
Holmes Fibre Graphite Mfg. Co., 5155 Wakefield, Gtn. Phila., Pa.
**LUMEN BEARING CO. ("Lumen,"** Bronze), Buffalo, N. Y. (See adv. index, end of book)
Magnus Metal Co. (Armature, Motor, etc.), 111 B'way, New York

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More-Jones Brass & Metal Co. ("Tiger," "Artic," "Pullman"), St. Louis, Mo
Muzzy-Lyon Co., Detroit, Mich.
**NORTH AMERICAN METALINE CO.** Long Island City, Boro. of Queens, New York
**Ohio Brass Co. (Genuine Bell Metal),** Mansfield, O.
Phosphor-Bronze Smelting Co., 22d & Washington av, Phila., Pa.
Pittsburg White Metal Co., Pittsburg, Pa.
Reeves, Paul S. & Son (Brass, Bronze & Phosphor Bronze), 1415 Catharine, Phila., Pa.
Ridlon, Frank Co. ("Ridlon," Bronze & Composition), 251 A., Boston, Mass.
St. Louis Car Co. (Spiral), St. Louis, Mo.
Standard Metal Mfg. Co., 122 Monroe, Chicago, Ill.
Standard Roller Bearing Co. ("Merrick," Boiler Bearing), 50th & Lancaster av, Phila., Pa.
Symington, T. H. Co. ("Baltimore," Center & Side), Baltimore, Md.
Taylor Elec. Truck Co. ("Taylor," Journal), Troy, N. Y.
Traction Material Co., 50 Church, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Wing, J. T. & Co. (Graphite), Detroit, Mich.

## 433— Bearings (Graphite)

Edna Brass Mfg. Co., Cincinnati, O.
Graphite Lubricating Co., Boundbrook, N. J.
Holmes Fibre Graphite Mfg. Co., 5155 Wakefield Gtn., Phila., Pa.
Wing, J. T. & Co., Detroit, Mich.

## Bearings (Hard Fibre)

(See Fibre, Hard)

## 434— Bearings (Journal)

Ajax Metal Co., 46 Richmond, Phila., Pa.
Allan, A. & Son ("Allan," Bronze), 486 Greenwich, New York
**ARGUTO OILLESS BEARING CO.** ("Arguto," Oilless), Wayne Junction, Phila., Pa. (See adv. index, end of book)
Atlantic Brass Co. (The "A. B. C."), 192 B'way, New York
Aurora Metal Co., Aurora, Ill.
Blake, Edwin J. (Car & Locomotive), Hartford, Conn.
Brady Brass Co., Jersey City, N. J.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CHAIN BELT CO. (Solid), Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chicago Bearing Metal Co., 193 Michigan av, Chicago, Ill.
Climax Bearing Co. ("Camel"), Detroit, Mich.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Damascus Bronze Co., N. S., Pittsburg, Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Edna Brass Mfg. Co. ("Porteous," Graphite), Cincinnati, O.
Electric Service Supply Co., 1024 Filbert, Phila., Pa.
Eureka Tempered Copper Works, North East,
Falcon Bronze Co., Youngstown, O. Pa.
Frictionless Metal Co., Chattanooga, Tenn.
Graham, Jas. & Co., New Haven, Conn.
Hewitt Mfg. Co., Railway Exchange bldg, Chi-
Hill Clutch Co., Cleveland, O. cago, Ill.
**Hyatt Roller Bearing Co., Harrison, N. J.**
Johns-Streeter Co. (Inc.) ("Streeter," Pivot Journal Bearings & Wedge), 30 Church, New York
**Keystone Bronze Co. (Car & Rolling Mill),** Pittsburg, Pa.
Kirby Equipment Co., Railway Exchange, Chicago, Ill.
**LUMEN BEARING CO., Buffalo, New** York. (See adv. index, end of book)
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Magnolia Metal Co., 511 W 13th, New York
**Magnus Metal Co. (Lead Lined, etc.), 111** B'way, New York
Meneely, Geo. R. & Son, Watervliet, N. Y.
More-Jones Brass & Metal Co., St. Louis, Mo.
Muzzy-Lyon Co., Detroit, Mich.
National-Fulton Brass Mfg. Co., Detroit, Mich.
**National Lead Co., 111 B'way, New York**
**National Supply Co. ("National"), Baltimore,** Md.
Nordyke & Marmon Co., Indianapolis, Ind.
**NORTH AMERICAN METALINE CO.,** 4 West av, Long Island City, N. Y. (See adv. index, end of book)
North American Smelting Co. (Car Bearings), 900 Thompson, Phila., Pa.
Noyes Brass Works, Erie, Pa.
Ohio Brass Co., Mansfield, O.
Phosphor-Bronze Smelting Co., Phila., Pa.
Reeves, Paul S. & Son (Brass, Bronze & Phosphor Bronze), 1415 Catharine, Phila., Pa.
Rider-Bagg Co. ("Brightwood" Bronze), Springfield, Mass.
**Rogers Metal Works (Car), Kansas City, Mo.**
**Simplex Railway Appliance Co. (Susemihl Roller Side), Chicago, Ill., & Hammond, Ind.**
Spacke, F. W. Machine Co., Indianapolis, Ind.
Standard Metal Mfg. Co., 122 Monroe, Chicago, Ill.
**Taylor Electric Truck Co., Troy, N. Y.**
**Watson, Frye & Co., Bath, Me.**

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
·COMPANY·
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

**Williams, E. A. & Son, Jersey City, N. J.**

## 435—Bearings (Lead Lined)

National Supply Co., Baltimore, Md.
Reeves, Paul S. & Son, 1415 Catharine, Philadelphia, Pa.

## 436—Bearings (Lumen Bronze)

**LUMEN BEARING CO., Buffalo, New** York. (See adv. index, end of book)

## 437— Bearings (Metaline)

**NORTH AMERICAN METALINE CO.,** 4 West av, Long Island City, N. Y. (See adv. index, end of book)

## Bearings (Motor)

(See Bearings, Electrical, Motor, Etc.)

## 438— Bearings (Oilless)

**ARGUTO OILLESS BEARING CO.** ("Arguto"), Wayne Junction, Phila., Pa. (See adv. index, end of book)
Massachusetts Oilless Bearing Co., 84 State, Boston, Mass.
New York Oilless Bearing Co., 127 White, New York
**NORTH AMERICAN METALINE CO.** ("Metaline," Self-Lubricating), 4 West av, Long Island City, N. Y. (See adv. index, end of book)

## 439— Bearings (Roller)

(See also Bearings, Ball; also Bearings, Side)
**Bantam Anti-Friction Co., Bantam, Conn.**
Bower Roller Bearing Co. (Automobile & Vehicle), Detroit, Mich.
Gillette Roller Bearing Co., Grand Rapids, Mich.
Hyatt Roller Bearing Co., Harrison, N. J.
**NATIONAL-ACME MFG. CO., Cleve**land, O. (See adv. index, end of book)

ORENSTEIN-ARTHUR KOPPEL
COMPANY
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Pickering Governor Co. (Roller Relief), Portland, Conn.
Royersford Foundry & Machine Co. ("Sells"), Royerford, Pa.
Sparks, Withington Co., Jackson, Mich.
Standard Machinery Co., Providence, R. I.
Standard Railway Equipment Co. (Pneumatic), Pittsburg, Pa.
**Standard Roller Bearing Co., (Thrust, etc.),** 50th & Lancaster, Phila., Pa.
Suspension Roller Bearing Co., Sandusky, O.
**Symington, T. H. Co. ("Symington"), Baltimore, Md.**
**Timken Roller Bearing Co. (Buggy), Canton, O.**
Timken-Detroit Axle Co. (Automobile & Truck), Detroit, Mich.
U. S. Roller Bearing Co., Bradford, Pa.

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## 440— Bearings (Self-Oiling)

**ARGUTO OILLESS BEARING CO.** ("Arguto," Oilless), Wayne Junction, Phila., Pa. (See adv. index, end of book)
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. dex & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Hyatt Roller Bearing Co., Harrison, N. J.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., 3500 DeKalb, St. Louis, Mo.
Nordyke & Marmon, Indianapolis, Ind.
**Platt Iron Works Co., Dayton, O.**
**WEBSTER MFG. CO., 2410 W 15th,** adv. index & branch offices, end of book)
Chicago, Ill., & 88 Reade, New York. (See
Woonsocket Machine & Press Co., Woonsocket, R. I.

LUMEN BRONZE BEARINGS
Twenty Per Cent. Lighter Than Ordinary Bronze. Will Not Cut Journals or Pins.
Combines the Strength of Bronze with the Anti-Frictional Qualities of Babbitt.
*In Use by the LEADING BUILDERS of Motors, Engines, Steam Pumps, Machine Tools, Electrical, Hoisting and Conveying Machinery of All Kinds.*
Sold Either in Castings or Pig Metal Under U. S. and Canadian Patents by the
LUMEN BEARING COMPANY
BUFFALO, N. Y. BRASS FOUNDERS TORONTO, ONT.

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## 441— Bearings (Side)

American Steel Foundries ("Susemihl"), 115 Adams, Chicago, Ill.
**Camel Co. ("Hartman" Ball Bearing), Old Colony bldg, Chicago, Ill.**
**Cardwell Mfg. Co. ("Cardwell" Rocker), Monadnock blk, Chicago, Ill.**
**Chicago Railway Equipment Co. ("Creco" Roller), 46th & Winchester av, Chicago, Ill.**
Joliet Railway Supply Co. ("Perry," Automatic Frictionless), Joliet, Ill.
**Miner, W. H. Co., The Rookery, Chicago, Ill.**
Simplex Railway Appliance Co. ("Susemihl," Roller Side), Commercial Nat'l Bank bldg, Chicago, Ill.; Works: Hammond, Ill.
**Symington, T. H. Co. ("Baltimore"), Baltimore, Md.**

## 442— Bearings (Thrust)

Auburn Ball Bearing Co. ("Auburn," Ball), Auburn, N. Y.
Bantam Anti-Friction Co., Bantam, Conn.
**Boston Gear Works (Thrust Collar), Norfolk Downs, Mass.**
Hess-Bright Mfg. Co., 21st & Fairmount av, Phila., Pa.
International Engineering Co. ("R. B. F."), 1779 B'way, New York
Planet Engineering Co., 5 Beekman, New York
Standard Roller Bearing Co., 50th & Lancaster av, Phila., Pa.
**THROPP'S, JNO. E. SONS CO., Trenton, N. J.** (See adv. index, end of book)

## 443— Beaters (Carpet)

Andrews Iron & Wire Works ("Androck"), Rockford, Ill.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
**Ashton-Brownson Co. ("Justright"), St. Paul, Minn.**
Ely, T. J. Mfg. Co. ("Dandy"), Girard, Pa.
**Erie City Mfg. Co., Erie, Pa.**
Hollow Cable Mfg. Co. ("Preston" Braided Wire), Hornell, N. Y.
**Holt-Lyon Co. (Wire), Tarrytown, N. Y.**
**Hutchins, Mfg. Co. ("Niagara"), Buffalo, N. Y.**
Malin & Co. (Braided Wire), Cleveland, O.
National Mfg. Co. (Wire), Worcester, Mass.
**Standard Wire Co. ("Gem" Wire), New Castle, Pa.**
Thurnauer, G. M. & Bo. (Rattan), 83 Worth, New York

## 444— Beaters (Egg)

**A. & J. Mfg. Co. ("A. & J." Egg Beater & Cream Whip), Binghamton, N. Y.**
**Andrews Wire & Iron Works ("Holt's" "Rapid"), Rockford, Ill.**
Bing Mfg. Co. ("Bing"), Minneapolis, Minn.
**Browne, W. G. Mfg. Co. ("Cyclone"), Kingston, N. Y.**
**DARBY, EDW. & SONS CO., 239** Arch, Philadelphia, Pa. (See adv. index end of book)
Dazey Churn & Mfg. Co. ("Dazey"), St. Louis, Mo.
**Dover Stamping & Mfg. Co. ("New Dover" for Family Use & "Leviathan Dover" for Confectioners). Cambridge, Mass.**
**Dunlap, J. S., 39 W Randolph, Chicago, Ill.**
**Erie Specialty Co., Erie, Pa.**
Fries, Geo. Sons, 898 Filbert, Phila., Pa.
**Hamblin & Russell Mfg. Co. ("Dover"), Worcester, Mass.**
Holbrook Mfg. Co. ("Hill"), Attleboro, Mass.
Hollow Cable Mfg. Co. ("Perfect"), Hornell, N. Y.
Holt-Lyon Co. (Inc.), Tarrytown, N. Y.
Hutchins Mfg. Co., Buffalo, N. Y.
Kilbourne Mfg. Co., Troy, N. Y.
**Landers, Frary & Clark ("Dover"), New Britain, Conn.**
Meyers, Fred. J. Mfg. Co., Hamilton, O.
National Mfg. Co. ("Dover," "Express," "Clipper," "French," "Superior," "Surprise," also Spoon & Spiral), Worcester, Mass.
**National Mfg. Co., Worcester, Mass.**
Norrish, Burnham & Co. (Inc.), Glen Rock, Pa.
Parker Wire Goods Co., Worcester, Mass.
**Plainfield Hardware & Mfg. Co. ("Loll") Plainfield, N. J.**
Raymond Mfg. Co. (Ltd.), Corry, Pa.
**Reid & Son Mfg. Co., 527 Smith, Brooklyn, N. Y.**
Roseland Can & Specialty Co. ("Double Quick"), Rockford, Ill.
**Star Specialty Co., Indianapolis, Ind.**
**Taplin Mfg. Co. ("Dover," "Tumbler," "Light Running"), New Britain, Conn.**
**TURNER & SEYMOUR MFG. CO. ("Dover"), Torrington, Conn. (See adv. index, end of book)**
Veness, Geo. G. Mfg. Co. ("Best"), Boston, Mass.
**Western Wire Goods Co. ("Buffalo," "Perfection"), Buffalo, N. Y.**
Weston & Wells Mfg. Co., 10th & Diamond, Phila., Pa.
**Wire Goods Co. ("Dover"), Worcester, Mass.**
Wire Hardware Co., 1824 Besley Court, Chicago, Ill.
**Woods-Sherwood Co., Lowell, Mass.**

## 445—Bedstead Mfrs. (Brass or Iron)

### ARKANSAS.

FORT SMITH—Ward Furniture Mfg. Co. (Brass & Iron)

### CALIFORNIA.

LOS ANGELES—Van Vorst & Berman Co. (Brass & Iron)
SAN FRANCISCO — Bernhard Mattress Co.
Rudger-Merle Co. (Brass & Iron) (Iron)

### CONNECTICUT.

SHELTON—Whitcomb Metallic Bedstead Co. (Brass & Iron)

### GEORGIA.

ATLANTA—Gholstein, Cunningham Spring Bed Co. (Iron)
MACON—Macon Spring Bed & Mattress Co. (Iron)

### ILLINOIS.

BRADLEY—Turk, Jos. Mfg. Co. (Iron)
CHICAGO—Adams & Westlake Co. (Brass & Iron), Ontario & N. Franklin
American Metal Ware Co. (Brass), 368 W Huron
**Art Bedstead Co. (Brass & Iron), 37th & Rockwell**
Central Bedding Co. (Iron), 3617 S Centre av
Davis, Horwich & Steinman (Iron), 2236 La Salle
**Fett, John (Iron), 2715 S Halsted**
**Garvy Co. (Steel Folding), N 49th av, c Bloomingdale rd**
Horn Bros. Mfg. Co. (Iron), 1144 W Superior
**Kimball & Chappell Co. (Brass & Iron), 2834 Loomis**
Simmons Mfg. Co. (Brass & Iron), 1347 Michigan av
Union Wire Mattress Co. (Iron), Blackhawk c Cherry
EAST ST. LOUIS—St. Louis Bed & Mfg. Co. (Brass & Iron)
PEORIA—Peoria Lounge & Mattress Co. (Iron)

### INDIANA.

EVANSVILLE—Evansville Metal Bed Co. (Brass & Iron)
INDIANAPOLIS—Laycock, T. B. Mfg. Co. (Brass & Iron)
MARION—Marion Iron & Brass Bed Co. (Brass & Iron)
MOORESVILLE—Indiana Brass & Iron Bed Co. (Brass & Iron)

### KENTUCKY.

LOUISVILLE—Belknap Hardware & Mfg. Co. (Brass & Iron)
Dow Wire & Iron Works

### LOUISIANA.

NEW ORLEANS—Crescent Bed Co. (Iron)
Magee Mfg. Co. (Brass & Iron)

### MAINE.

BANGOR—Bangor Mattress Co. (Iron)

### MARYLAND.

BALTIMORE—Fauldrath, C. H. & Bro. (Brass & Iron), 219 N Howard
**Foster Bros. Mfg. Co. (Brass & Iron), 320 N Holliday**
**Simmons Mfg. Co., 612 W Pratt**
**Weems, A. W. (Brass & Iron), 331 N Howard**

### MASSACHUSETTS.

BOSTON—Bent, G. W. & Co. (Brass & Iron), 93 Causeway
**Boston Metallic Bed Co. (Iron), 90 Canal**
**Merrimac Mattress Mfg. Co. (Iron), 129 Portland**
Morris & Butler (Brass & Iron), 97 Summer
National Metallic Bed Co., 24 Medford
**Richardson, Wright & Co. (Iron), 51 Chardon**
**HOLYOKE—Coburn Trolley Track Mfg. Co. (Brass)**
**WESTBORO—Foster-Richardson Co. (Brass & Iron)**

### MICHIGAN.

**DETROIT—Jenks & Muir Mfg. Co. (Brass & Iron)**

### MINNESOTA.

MINNEAPOLIS—Gangelhoff Bros. (Brass & Iron)
Minneapolis Bedding Co. (Brass & Iron)
Salisbury & Satterlee Co. (Iron)
RED WING—Red Wing Mfg. Co. (Brass & (Iron)
**ST. PAUL—United States Bedding Co. (Iron)**

### MISSOURI.

**KANSAS CITY—Brown Bed Mfg. Co. (Brass & Iron)**
ST. LOUIS—American Bed Co. (Brass & Iron)
Foster Bros. Mfg. Co. (Iron)
Mellon & Storm Mfg. Co.
Smith & Davis Mfg. Co. (Iron)

### NEW JERSEY.

**BAYONNE—Knickerbocker Metallic Bedstead Co.**
**HOBOKEN—Oriental Metal Bed Co. (Brass & Iron)**
**JERSEY CITY—Empire City Metallic Bed Co.**
Mersereau Metal Bed Co. (Brass & Iron)
**New York Metallic Bedstead Co.**

### NEW YORK.

ALBANY—Hasselbarth, C. O. (Brass & Iron)
BUFFALO—Barcalo Mfg. Co. (Brass & Iron)
Hard Mfg. Co. (Iron)
**LOCKPORT—Oliver Bros. Co., (Brass & Iron)**
**MECHANICSVILLE—Eckerson Bedding Co., (Iron)**

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Gasau Spring & Bed Co., 28 Cumberland
Greenpoint Metallic Bed Co. (Brass & Iron), 226 Franklin
Royal Metal Furniture Co. (Brass & Iron), 125 8th
Schlesinger, W. & S. & Co., Amos & Debevoise
Stander, Jacob (Brass), 5 Lewis av.
Star Brass & Iron Bed Co. (Brass & Iron), 13 Montauk av
Weisglass, Samuel, West & Java

#### Boroughs of Manhattan & Bronx.

NEW YORK—Atlas Metal Bedstead Co. (Brass & Iron), 562 W 25th
**Hall, Frank A. (Iron), 118 Baxter**
**Hoffman, Henry (Iron), 801 3d av**
**Hudson Metal Bed Co. (Brass & Iron), 213 Canal**
Ideal Square Brass Bed Mfg. Co., 1 Bedford
**Judd, H. L. Co., (Brass & Iron), 87 Chambers**
**Manhattan Bedding Co., (Brass & Iron), 533 W 23d**
**New York Couch Bed Co., 534 W 30th**
**N. Y. Woven Wire Mattress Co. (Iron), 225 W. 28th**
**Ostermoor & Co., (Brass & Iron), 132 Bowery**
Rogers, C. P. & Co. (Brass & Iron), 517 W 29th
Schlesinger, W. & S. & Co. (Iron), 156 W 23d
Smith Metal Bed Co., 609 W 43d
Union Brass Bed Mfg. Co. (Brass), 2334 Hoffman
ROCHESTER—Rochester Brass Bed Co. (Brass)
**ROME—Rome Metallic Bedstead Co. (Brass & Iron)**
**TRUXTON—Bryant Furniture Co. (Iron)**
**UTICA—Foster Bros. Mfg. Co. (Iron)**
Lortz-Teuscher Co. (Iron)
**WAVERLY—Merriam, F. W. (Iron)**

### NORTH CAROLINA.

**ALBEMARLE—Albemarle Furniture & Mfg. Co. (Iron)**
**WINSTON SALEM—Forsyth Iron Bed Co. (Brass & Iron)**

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### OHIO.

ASHLAND—Kauffman Mfg. Co. (Iron)
CINCINNATI — American Juvenile Bed Co.
Crown Mfg. Co. (Iron)
Hunt, M. A. & Co. (Brass & Iron)
Nunner & Ashton (Brass & Iron)
CLEVELAND—Fanner Mfg. Co. (Brass Only)
Van Dorn Iron Works Co. (Brass & Iron)
EATON—Ohio Iron & Brass Bed Co. (Brass & Iron)

### PENNSYLVANIA.

COLONA—Pittsburg Tube Co. (See Pittsburg)
CORRY—Kurtz Brass Bed Co. (Ltd.)
HARRISBURG—Boll Bros. Mfg. Co. (Brass & Iron)
PHILADELPHIA—Bernstein Mfg. Co. (Brass & Iron), 3d & Westmoreland
Bunting, J. R. Bedding Co. (Iron), 234 S 2d
Dougherty, H. D. & Co. (Brass & Iron), 17th & Indiana
McMahen, Wm. H. (Brass & Iron), 244 S 2d
Philadelphia Metallic Bed Co., American & Jefferson
Quaker City Metallic Bedstead Co. (Brass), 16th & Washington av
PITTSBURG—Pittsburg Metal Bed Co., North Side
Pittsburg Tube Co. (Brass or Iron); Mills: Colona, Pa.

### TENNESSEE.

CHATTANOOGA—Heron Iron Bedstead Co.

### WISCONSIN.

FOND DU LAC—Winnebago Furniture Mfg. Co. (Iron)
KENOSHA—Simmons Mfg. Co. (Brass & Iron)
MARSHFIELD—Marshfield Bedding Co. (Iron)
MILWAUKEE — Milwaukee Metal Bed Co. (Brass & Iron)

## 446— Bee Keepers' Supplies

**Blanke & Hank Supply Co., St. Louis, Mo.**
**Dadant & Sons, Hamilton, Ill.**
Falconer, W. T. & Co., Jamestown, N. Y.
Leahy Mfg. Co., Higginsville, Mo.
**Marshfield Mfg. Co., Marshfield, Wis.**
**Lewis, G. B. Co., Watertown, Wis.**
**Root, A. I. Co., Medina, O.**

## 447— Beeswax

Bowdlear, W. H. Co., 220 Devonshire, Boston. Mass.
Bromund, E. A. Co., 253 Church, New York
McKesson & Robbins, 91 Fulton, New York
National Aniline & Chemical Co., 100 William New York
Scheel, Wm. H., 159 Maiden la., New York
Will & Baumer Co. (Bleachers & Refiners), Syracuse, N. Y.

## 448—Bell Cords & Couplings

(See also Cords, Trolley, Etc.)

**ROEBLING'S, JOHN A. SONS CO.** Main Office: Trenton, N. J. Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO., 78 Chauncy,** Boston, Mass. (See adv. index, end of book)

## 449— Bell Founders

American Bell & Foundry Co. (Cast Steel), Northville, Mich.
Bay State Brass Foundry, 155 A, Boston, Mass.
**Bell, C. S. Co. (Steel Alloy, Farm, etc.),** Hillsboro, O.
Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
Cincinnati Bell Foundry Co., Cincinnati, O.
De Rome, Louis, San Francisco, Cal.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. & Co.. San Francisco, Cal.
**HENRY-BONNARD BRONZE CO.** Works, Mount Vernon, N. Y. (See adv. index, end of book)
Kingwell, Vincent, San Francisco, Cal.
McShane Bell Foundry Co., Baltimore, Md.
**Meneely Bell Co., Troy, N. Y.**
Meneely & Co., Watervliet, N. Y.
Mousley, Chas. & Sons, 453 N 12th, Philadelphia, Pa
New Departure Mfg. Co. (Gong, etc.), Bristol, Conn.
Ross-Meehan Foundry Co., Chattanooga, Tenn.
Stuckstede, Hy. Bell Foundry Co., St. Louis,
Stuckstede & Bro., St. Louis, Mo. Mo.
Sweeney, J. & Barrett, 3 Dutch, New York
Van Duzen, E. W. Co., Cincinnati, O.
Williams, E. A. & Son, Jersey City, N. J.

## Bell Ringers

(See Locomotive Bell Ringers)

## 450—Bellows (Blacksmiths', Molders', Etc.)

**BEGGS, JAS. & CO., Liberty &** Church, New York
Brand, S. H. & Co., 612 W Monroe, Chicago. Ill.
California Bellows Works, San Francisco, Cal.
Charlotte Bellows Works, Charlotte, N. C.
Christen Bellows & Mfg. Co. (Molders), St. Louis, Mo.
Cincinnati Bellows Works, Norwood, Cincinnati, O.
Clark, Thos. A. ("Kansas Cyclone"), 5783 Side av (N W), Cleveland, O.
**Colonial Brush & Mfg. Co., 348 Florida,** Milwaukee, Wis.
Dobson, Wm. (Molders' Calfskin), Canastota, N. Y.
Flaccus, Wm. Oak Leather Co., Pittsburg, Pa.
McCormick, J. S. Co., Pittsburg, Pa.
**OSBORN MFG. CO. (Molders' Only),** 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Paro, Edw., 3626 W 62d, Chicago, Ill.
Scott, Geo. M., 2129 Johnson, Chicago, Ill.
Woodason, Thomas (Blacksmiths' & Molders', etc.), 2900 D, Phila., Pa.

## 451—Bellows (Brass & Wood)

**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 452— Bells (Altar)

Starr Bros. Bell Co., East Hampton, Conn.

## 453—Bells (Automobile & Bicycle)

(See also Bells, Electric; also Bells & Gongs, Car, Etc.)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Climax Mfg. Co., East Hampton, Mass.
Gong Bell Mfg. Co., East Hampton, Conn.
Graham Mfg. Co. (Bicycle), Derby, Conn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Mossberg, Frank Co. (Also Carriage), Attleboro, Mass.
New Departure Mfg. Co., Bristol, Conn.
Reiter, G. C., Canton, O.
Starr Bros. Bell Co., East Hampton, Conn.

## 454— Bells (Chime)

Durfee, Walter H. (Tubular Church Organ), 151 Pond, Providence, R. I.
McShane Bell Foundry Co., Baltimore, Md.
Meneely Bell Co., Troy, N. Y.
Meneely & Co., Watervliet, N. Y.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.

## 455— Bells (Church)

American Bell & Foundry Co., Northville, Mich.
Bell, C. S. Co., Hillsboro, O.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Chaplin-Fulton Mfg. Co., 28 Penn av. Pittsburg,
Cincinnati Bell Fdry Co., Cincinnati, O. Pa.
Durfee, Walter H. (Tubular, Tower, etc.), 151 Pond, Providence, R. I.
Foote, J. B. Foundry Co., Fredericktown, O.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. & Co., San Francisco, Cal.
McShane Bell Foundry Co., Baltimore, Md.
Meneely Bell Co., Troy, N. Y.
Meneely & Co., Watervliet, N. Y.
Stuckstede, Henry Bell Foundry Co., 1312 2d, St. Louis, Mo.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Williams, E. A. & Son, Jersey City, N. J.

## 456— Bells (Cow)

Blum Mfg. Co., Collinsville, Ill.
Bevin Bros. Mfg. Co., East Hampton, Conn.
East Hampton Bell Co., East Hampton, Conn.
Starr Bros. Bell Co., East Hampton, Conn.

## 457—Bells (Door & House)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Bevin Bros. Mfg. Co., East Hampton, Conn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hill, N. N. Brass Co., East Hampton, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Reiter, G. C., Canton, O.
Starr Bros. Bell Co. (Gong, Alarm, Rotary Door, Call, etc.), East Hampton, Conn.

## 458— Bells (Electric)

Ansonia Electrical Co. ("Eureka," "Wizard"), Ansonia, Conn.
**Bunnell, J. H. & Co. ("Becko"), Park pl & Church, New York**
Bryant Zinc Co., 737 W Van Buren, Chicago, Ill.
Cory, Chas. & Son (Call), 286 Spring, New York
Edwards & Co. ("Lungen," "Vigilant," "Rectl"), 140th & Exterior, New York
Electric Goods Mfg. Co. ("Victor," "Dandy," "Tyrolean"), Boston, Mass.
Ericsson, L. M. Tel. Mfg. Co., Buffalo, N. Y.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Holtzer-Cabot Electric Co. ("Berlin," "Hub-Dome"), Brookline, Mass.
Keil, Francis & Son ("Reliance," "Ampro"), 401 E. 163d, New York
Manhattan Electrical Supply Co. ("Nonpariel," "Utility," "Crescent," "Imperial," "Crescendo," "Monarch," "Monitor"), 17 Park pl, New York
Menominee Elec. Mfg. Co., Menominee, Mich.
Ostrander, W. R. & Co., 22 Dey, New York
P. R. Mfg. Co. ("Rex," "Marlo," "X X X," "Eclipse," "Ekla," "Straightline," "P. R.," Weather Proof), Detroit, Mich.
Patrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Pearce, Fred'k Co., 18 Rose, New York
Railroad Supply Co., 215 Dearborn, Chicago, Ill.
Reading Hardware Co. (Ring & Rotary Door), Reading, Pa.
Russell Electric Co. ("Electric Whistle." "Freco"), Danbury, Conn.
Schwarze Electric Co., Adrian, Mich.
Stanley & Patterson ("Faraday," "Skelton" & Enclosed Type), 23 Murray, New York
Starr Bros. Bell Co. (Mechanical), East Hampton, Conn.
**STRONG, CARLISLE & HAMMOND** Co. ("S. C. & H. Co."), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Western Electric Co. ("Hawthorne." Relay), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, H., 70 Frost, Brooklyn, N. Y.

## 459— Bells (Engine)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Cory, Chas. & Son, 286 Spring, New York
Hardware & Woodenware Mfg. Co., 693 B'way, New York
New Departure Mfg. Co., Bristol, Conn.
Reiter, G. C., Canton, O.
Rumsey & Co., Ltd. (Inc.), Seneca Falls, N. Y.
Starr Bros. Bell Co. (Locomotive Gongs, etc.), East Hampton, Conn.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Williams, E. A. & Son, Jersey City, N. J.

## 460— Bells (Farm)

**American Bell & Foundry Co., Northville, Mich.**
Bell, C. S. Co., Hillsboro, O.
Comstock, Geo. S., Mechanicsburg, Pa.
Foote, J. B. Foundry Co., Fredericktown, O.
Gibson & Kirk Co., Baltimore, Md.
Lehr Agricultural Co., Fremont, O.

## 461— Bells (Fog)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Starr Bros. Bell Co. (Binnacle & Signal), East Hampton, Conn.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Williams, E. A. & Son, Jersey City, N. J.

## 462— Bells (Hand)

Starr Bros. Bell Co. (Auctioneers, School, Tea, etc.), East Hampton, Conn.

## Bells (Highway Crossing)

(See Signals, Railway Crossing)

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## Bells (House)
(See Bells, Door & House)

## Bells (Locomotive)
(See Bells, Engine)

## 463—Bells (Malleable Bronze for Locomotives)
**LAWRENCEVILLE BRONZE CO.,** 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)

## Bells (School, Fire & Factory)
(See Bells, Church)

## 464— Bells (Sleigh)
American Ring Co., Waterbury, Conn.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Kirby Mfg. Co., Middletown, Conn.
Starr Bros. Bell Co. (Also Body Straps, etc.), East Hampton, Conn.
Swedish Sleigh Bell Mfg. Co., Burlington, Ia.

## 465— Bells (Telephone)
American Electric Telephone Co., 64th & State, Chicago, Ill
Automatic Appliance Co. (Magneto), Boston, Mass.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Bridgeport Brass Co. ("Magneto"), Bridgeport, Conn.
Chicago Telephone Supply Co., Elkhart, Ind.
Electric Service Supply Co. (Extension Ringing), 1020 Filbert, Phila., Pa.
Farr Telephone & Construction Supply Co., 33 S Clinton, Chicago, Ill.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Holtzer-Cabot Electric Co., Brookline, Mass.
Ladd, W. C., Bristol, Conn.
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Electric Mfg. Co., Menominee, Mich.
North Electric Co., 408 St. Clair, Cleveland, O.
Patrick, Carter & Wilkins Co., 122 N 11th, Philadelphia, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Schwarze Electric Co. ("Schwarze," Loud Ringing Magnets Extension), Adrian, Mich
Sumpter Telephone Mfg. Co., Sumpter, S. C.
Utica Fire Alarm Telegraph Co., Utica, N. Y.
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.
Vote-Berger Co. ("Little Gem"), La Crosse, Wis.
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.

## 466— Bells (Tubular)
Durfee, Walter H. (For Churches, Tower Clocks, Organ Chimes, etc.), 151 Pond, Providence, R. I.
National Tube Co. ("Shelby" Seamless Steel Tubing, Locomotive, Fire Alarm, Church, Marine, Service, etc.), Pittsburg, Pa.

## 467—Bells & Gongs (Car, Etc.)
Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
American Foundry & Mfg. Co. (Bronze), 11th & Herbert, St. Louis, Mo
American Tube & Stamping Co., Bridgeport, Conn.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Brill, J. G. Co. ("Dedenda," Platform Gong, "Retriever," Signal Bell), 62d & Woodland av, Phila., Pa.
Dayton Mfg. Co. ("Dayton," Gong), Dayton, O.
Electric Service Supply Co. ("Keystone," Pneumatic Gong), 1020 Filbert, Phila., Pa.
Gong Bell Co., East Hampton, Conn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
National Tube Co. ("Shelby," Seamless Steel Tubing, are Formed Not Cast), Pittsburg, Pa.
New Departure Mfg. Co., Bristol, Conn.
Ohio Brass Co., Mansfield, O.
Reiter, G. C., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
St. Louis Car Co. ("St. Louis," Bells & Gongs Made of Rolled Steel), St. Louis, Mo.
Starr Bros. Bell Co. ("Bartons"), East Hampton, Conn.
Van Duzen, E. W. Co. (Trip), Cincinnati, O.
Wall, P. Mfg. Supply Co., Pittsburg, Pa.
Wallace Supply Co. ("Standard," Steel Gongs), 120 S Jefferson, Chicago, Ill.
Williams, E. A. & Son, Jersey City, N. J.

## 468—Bells & Gongs (Unmounted)
American Foundry & Mfg. Co., St. Louis, Mo.
American Tube & Stamping Co., Bridgeport, Conn.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
East Hampton Bell Co., East Hampton, Conn
Hardware & Woodenware Mfg. Co., 693 B'way, New York
New Departure Mfg. Co., Bristol, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
PRESSED STEEL TANK CO. (Pressed Steel), Milwaukee, Wis. (See adv. index, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn
Waterbury Mfg. Co., Waterbury, Conn.

## 469—Belt Cleaning & Rebuilding
Raniville, F. Co., Grand Rapids, Mich.

## 470—Belt Conveyor Trippers & Appliances
CHAIN BELT CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
PITTSBURG CONVEYING MACHINery Co., Pittsburg, Pa. (See adv. index, end of book)

## 471— Belt Dressing
Advance Grease & Chemical Co. ("Advance"), Jackson, Mich.
Akron Belting Co. ("Electric"), Akron, O.
Allen-Murphy Co., 4013 Wentworth av, Chicago, Ill.
Allen, W. D. Mfg. Co. ("Ajax," "Red Cross"), 151 Lake, Chicago, Ill.
American Belting Co., Youngstown, O.
American Fabric Belting Co. ("Nestor" Solid Woven Waterproof Drive or Conveyor), Cleveland, O.
American Oil Co. ("A. O. C."), Providence, R. I.
American Steam Packing Co. ("American"), 51 High, Boston, Mass.
Anchor Grease Mfg. Co. ("Anchor" Belting Grease), Mechanicsburg, Pa.
Barnum Bros. Co ("Trojan," "Solar"), Troy, N. Y.
Belden, A. G. & Co. ("Pycnolum"), 145 Maiden la., New York
Belt Force Co., Knoxville, Tenn.
Beltine Chemical & Mfg. Co., N Sangamon & W Kinzie, Chicago, Ill.
Binghamton Boiler Compound Co. ("Pyramid"), Binghamton, N. Y.
Black Diamond Mfg. Co. ("Black Diamond"), 1217 Bank, Cincinnati, O.
Bradford Belting Co. ("Monarch"), Cincinnati, O.
Buffalo Specialty Co. ("Electric Success"), 375 Ellicott, Buffalo, N. Y.
Callahan, Geo. & Co. ("Anti-Slip"), 218 Front, New York
Carbono Specialty Mfg. Co., 366 W B'way, New York
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Carton Belting Co., Boston, Mass.
Cataract Refining & Mfg. Co. ("Cascade Stick"), Buffalo, N. Y.
Chesapeake Belting Co. ("Star"), Baltimore, Md.
Chesterton, A. W. & Co. ("Excelsior," "Tubene"), 64 India, Boston, Mass.
Chicago Belting Co., 125 N Green, Chicago, Ill.
Climax Refining Co., Williamson bldg, Cleveland, O.
Cling Surface Co., 1032 Niagara av, Buffalo, N. Y.
Consumers' Rubber Co. ("Hosmer's"), Cleveland, O.
Corliss Chemical Co., 409 S 12th, St. Louis.
Crandall Packing Co., Palmyra, N. Y. Mo.
Crescent Belt Fastener Co. ("Handy Bar"), 381 4th av, New York
Crown Woven Wire Brush Co. (For Round & Sewing Machine Belts), Salem, Mass.
Desmond-Stephan Mfg. Co. ("Stephan"), Urbana, O.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" Solid & Traction), Jersey City, N. J. (See adv. index & branch offices, end of book)
Eagle Counter & Leather Co., Cincinnati, O.
Eagle Oil & Supply Co. ("Eagleine Holdfast," "Victor"), 104 Broad, Boston, Mass.
Etsweiler, Wm. (Electric), 230 N 3d, Phila., Pa.
Fansher Bros. ("Perfection"), Dayton, O.
Franklin Co., Lincoln, N. J.
Gallaway, G. W. ("Beltine"), 322 Pearl, New York
Gandy Belting Co., Baltimore, Md.
Garlock Packing Co., Palmyra, N. Y.
Garnet Co. (Liquid & Bars), Allentown, Pa.
Gold Fiberine Co., Allentown, Pa.
Gold, Walter C. ("The Page"), 235 Race, Phila., Pa.
Goodyear Rubber Hose & Packing Co. ("Vulcan"), 221 Chestnut, Phila., Pa.
Graton & Knight Mfg. Co., Worcester, Mass.
Green & Butler, Newark, N. J.
Hartfelder-Garbutt Co. ("Strous'" Liquid), Savannah, Ga.
Hercules Mfg. Co., 4328 Greenwood av, Chicago, Ill.
Hinds & Coon ("Hug-It"), 126 Pearl, Boston, Mass.
Houghton, E. F. & Co. ("The Vim," Adhesive), 240 W Somerset, Phila., Pa.
HUDSON BELTING CO. (Hudson Bar "Number One"), Worcester, Mass. (See adv. index, end of book)
Imperial Leather Preserver Mfg. Co. ("Leatherine" Filler & Preserver), 216 Chancelor, Phila., Pa.
Indian Refining Co., 123 William, New York
Ironsides Co. ("Ironsides" Belt Shield), Columbus, O.
Jewell Belting Co., Hartford, Conn.
Kato Products Co. ("Kato"), 50 Church, New York
Keystone Belting & Supply Co. ("Keystone"), Norristown, Pa.
Keystone Lubricating Co. ("Keystone," Grease), 20th & Allegheny av, Phila., Pa.
Keystone Refining Co., Columbus, O.
Leather Preserver Mfg. Co., 510 W. Monroe, Chicago, Ill.
Loeb Bros. Leather Belting Co., 29 Ferry, New York
Main Belting Co. ("Leviathan"), 1219 Carpenter, Phila., Pa.
Modoc Co., Fernwood, Pa.
Montgomery Bros. ("Paragon"), 45 S 2d, Phila., Pa.
Mt. Vernon Belting Co. ("Ease-On"), Baltimore, Md.
Munson, Chas. Belting Co. ("Famous"), 88 Franklin, Chicago, Ill.
Never-Slip Belt Dressing Co. ("Never-Slip"), Muskegon, Mich.
New York Leather Belting Co. ("Phoenix" Bar), 51 Beekman, New York
New York Mfg. & Supply Co., 152 South, New York
Northern Chemical Co. ("Beltine"), Cleveland, O.
Nott, W. S. Co. ("Old Hickory"), Minneapolis, Minn.
Onward Mfg. Co. ("O. C. Little" for Rubber & Canvas Belts), Menasha, Wis.
Page Belting Co. ("Crown," for Leather Belts), Concord, N. H.
Palmer, N. & Co. ("Charter Oak"), Bridgeport, Conn.
Pechin, Jno. W. ("Jim Dandy"), 700 N Front, Philadelphia, Pa.
Phoenix Oil Co. ("Green Seal"), Cleveland, O.
PITTSBURGH GAGE & SUPPLY CO. ("Fort Duquesne"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Plomo Specialty Mfg. Co. ("Whitmore's" "Plomo"), Cleveland, O.
Post, E. L. & Co., 50 Cliff, New York
Quaker City Rubber Co. ("Quaker City"), 629 Market, Phila., Pa.
Raniville, F. Co., Grand Rapids, Mich.
Reed & Duecker ("R. & D."), Memphis, Tenn.
Rhoads, J. E. & Son, 12 N 3d, Phila., Pa.
ROSSENDALE-REDDAWAY BELTing & Hose Co. ("Camel"), Newark, N. J. (See adv. index, end of book)
Ruboil Belting Co., 43 N 7th, Phila., Pa.
Salisbury, W. H. & Co. ("Apex"), 166 Wabash av, Chicago, Ill.
Sawyer Belting Co. (For Leather or Canvas, also "Flexo"-Tractive, for Canvas, Rubber & Leather Belting), Cleveland, O.
Schieren, Chas. A. & Co. ("Beltfiller," "Leatherine," "Electric," "Flyfoot"), 30 Ferry, New York
Shackley, W. T. & Son (Friction), 49 High, Boston, Mass.
Shultz Belting Co., 402 Barton, St. Louis, Mo.
Sonneborn, L. Sons (Inc.) ("Amalia" Grip Non-Slip Stick & Syrup for All Kinds of Belts), 262 Pearl, New York
Southwick, Geo. W. Co. (Inc.) ("Polar"), 35 Warren, New York
Standard Oil Co. ("Eureka"), 555 W 25th, New York
Standard Oil Leather Dressing Co. ("Belt Life") 1945 Lexington av, New York
Staplin & Smith, 359 W. Michigan, Chicago, Ill.
Steers Supply Co., 88 Maiden la, New York

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Stephenson Mfg. Co. (Bar), Albany, N. Y.
Streett, J. D. & Co., St. Louis, Mo.
Superior Chemical Mfg. Co. ("Superior"), Grand Rapids, Mich.
Talismanic Co., North Tonawanda, N. Y.
Tolsma, R. B. & Co., Seattle, Wash.
Viscol Co., Cambridge, Mass.
Walton, F. S. Co. ("Ox-Oil-Ox"), Orthodox & Del. River, Phila., Pa.
Watt's, Jno. M. Sons ("Nonpariel"), 54 N 2d, Phila., Pa.
Waterproof Paint Co., Watertown, Mass.
White & Bagley Co. ("Neverslip"), Worcester, Mass.
Whitlock Mfg. Co., Cleveland, O.
Wilhelm. A. Co., Reading, Pa.
Wing, J. T. & Co., Detroit, Mich.
Winn, Wm. R. ("Winn"), 143 Maiden Lane, New York
Wolff, Norbert Co. ("Wolff"), 470 Greenwich, New York
World Refining Co., Easton, Pa.
Zurn, O. F. Co. ("Royal," "Peerless"), Broad & Lehigh, Phila., Pa.

## 472— Belt Fasteners

Angell, Chas. E. ("Wilson" Hooks), Providence, R. I.
Black Diamond Mfg. Co. ("Black Diamond" Hinge), Cincinnati, O.
**BRISTOL CO. ("Bristol's" Steel Belt** Lacing), Waterbury, Conn. (See adv. index & branch offices, end of book)
Buffalo Belting Works, 18 Ellicott, Buffalo, N. Y.
Buffalo Specialty Co. ("Buffalo"), 375 Ellicott, Buffalo, N. Y.
Columbia Novelty Mfg. Co. ("Stag," "Bulldog"), St. Louis, Mo.
Crown Woven Wire Brush Co. (For Round & Sewing Machine Belts), Salem, Mass.
Crescent Belt Fastener Co. ("Crescent"), 381 4th av, New York
Flexible Steel Lacing Co. ("Turtle"), 542 Jackson blvd, Chicago, Ill.
Greene, Tweed & Co. ("Jones," "Jackson's" Improved Pointed), 109 Duane, New York
Hart Mfg. Co., St. Louis, Mo.
Hayden, J. M. & Co. ("Globe" Wire), Grand Rapids, Mich.
Hudson Belt Fastener Co. ("Hudson"), 136 Liberty, New York
Jenckes, E. Mfg. Co. ("Hicks" Pointed, etc.), Worcester, Mass.
Jewell Belting Co. ("Potter," "Jones"), Hartford, Conn.
Jones, H. H. (Hook), Lancaster, N. H.
**KENEHAN STEEL BELT FASTENER** Co., 1252 W 3d, N W, Cleveland, O., & H. J. Stow, 56 5th, Chicago, Ill. (See adv. index, end of book)
Manufacturers' Belt Hook Co. ("Giant," "H. L."), 119 N Green, Chicago, Ill.
Kerr & Co. ("A. B. C." Metallic), 114 Liberty, New York
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
Page Belting Co., Concord, N. H.
Pickering, R. S. (Or Belt Hooks), Sharon Hill, Pa.
Pratt, Wm. E. Mfg. Co. ("The Chicago" Wire), 91 Lake, Chicago, Ill.
**ROSSENDALE - REDDAWAY BELT**ing Hose Co. ("Jackson's"), Newark, N. J. (See adv. index, end of book)
Sawyer Belt Hook Co. ("Jackson," "Wilson"), Pawtucket, R. I.
**SCHULE, F. H. CO. ("Jackson" & "Clipper"),** 114-118 Liberty, New York. (See adv. index, end of book)
**Smith, F. P. & Co. ("Smithicks," Pointed & Wire Sewing Machine Belt Hooks, etc.),** Sharon Hill, Pa.
Snap Detachable Belt Fastener Co. ("Snap" Detachable), Newark, N. J.
**Southwick, Geo. W. Co. (Inc.), 35 Warren, New** York
**Stone, J. B. Co. ("Clipper," Hooks), Grand Rapids, Mich.**
Talcott, W. O. ("Wilson's" & Combination Clinching & "Acme"), Providence, R. I.
Thacher Belting Hook Co. ("Thacher"), 321 Frankfort av, Cleveland, O.
Upson Nut Co., Unionville, Conn., & Cleveland, O.
Voorhees Rubber Mfg. Co. (Plate Belt Fasteners or Hooks), Jersey City, N. J.


**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

*When writing to firms whose names appear in this book please mention*

**Hendricks' Commercial Register**


Waters-Garland Co. ("Glover's," Belt Hooks), Louisville, Ky.
Webb Hinge Belt Hook Co., Boonton, N. J.
Western Rawhide & Belting Co. ("Superior" Belt Hook for Round or Flat Belts), Milwaukee, Wis.
Wall, P. Mfg. Supply Co. ("Thachers"), N S, Pittsburg, Pa.

## 473— Belt Filling

Garnet Co. (& Preserver), Allentown, Pa.

## 474— Belt Holders

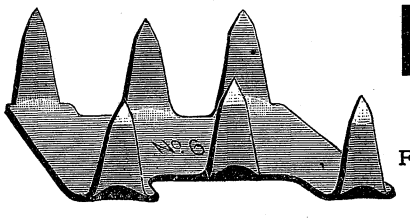
Mason Regulator Co., Boston, Mass.

## Belt Hooks

(See Belt Fasteners)

## 475— Belt Lacing

Akron Belting Co. (Wire & Rawhide), Akron, O.
Allen, W. D. Mfg. Co. ("McCauley" Wire), 151 Lake, Chicago, Ill.
American Belting Co., Youngstown, O.
Barnes, Henry K. ("Crown" Rawhide & "Blueskin" Mineral Tanned), 234 Devonshire, Boston, Mass.
Bay State Belting Co. (Leather), 43 High, Boston, Mass.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. (Coiled Steel Wire & Rawhide Pins), Birdsboro, Pa. (See adv. index, end of book)
Bradford Belting Co. ("Monarch"), 2nd & Walnut, Cincinnati, O.
**BRISTOL CO. ("Bristol's" Patent** Steel), Waterbury, Conn. (See adv. index & branch offices, end of book)
Central Belting Co., 151 Lafayette, New York
Chicago Raw Hide Mfg. Co. (Rawhide), 350 1301 Elston av, Chicago, Ill.
Columbia Novelty Mfg. Co. ("Star" Steel), St. Louis, Mo.
Coupe, Wm. Co. ("Excelsior" Raw Hide & Oak Tanned), South Attleboro, Mass.
Couse & Bolten, Newark, N. J.
De Forge Belting Co., Newark, N. J.
Flexible Steel Lacing Co. ("Alligator" Flexible Steel), 545 Jackson blvd, Chicago, Ill.
Gay, Fred E. (Rawhide Side & Cut Lace Leather), Pawtucket, R. I.
Graton & Knight Mfg. Co. (Rawhide & Indian Tanned Lace Leather), Worcester, Mass.
Hayden, J. M. & Co. ("Globe" Wire), Grand Rapids, Mich.
Hercules Mfg. Co., 4328 Greenwood av, Chicago, Ill.
**HUDSON BELTING CO. (Lace** Leather), 3 Eaton pl, Worcester, Mass. (See adv. index, end of book)
Hudson Belt Fastener Co. ("Hudson" Wire, "Perfection," "O. K."), 136 Liberty, N. Y.
Jewell Belting Co. (Metallic Tipped), Hartford, Conn.
Kayser Raw Hide Co. ("Anchor" Raw Hide), St. Louis, Mo.
Kerr & Co. (Wire), 114 Liberty, New York
Ladew, Edward R. (Est. of) (Leather), 82 Fulton, New York
Loeb Bros. Leather Belting Co., 29 Ferry, New York
Malin & Co. (Composition Wire), 641 Long av, N. W., Cleveland, O.


# Kenehan Soft Steel Belt Fasteners

ARE MADE FROM A SPECIALLY ANNEALED STEEL, THE BEST OBTAINABLE FOR THE PURPOSE.

Fourteen sizes, suitable for all kinds, widths and weights of Belting. Used exclusively in hundreds of the largest mills and factories throughout the country.

Your dealer probably carries them in stock, but if not, write us for free samples and low prices.

**THE KENEHAN STEEL BELT FASTENER CO.,**

1252 WEST THIRD STREET, CLEVELAND, OHIO.

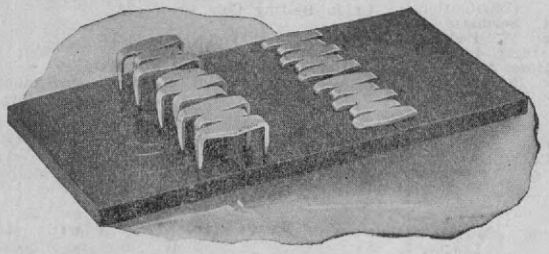
**Western Distributor: H. J. STOW, 56 Fifth Avenue, Chicago, Ill.**


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Made in a complete line of sizes and styles suited for all kinds of Leather, Rubber and Woven Belts.



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This illustration shows BRISTOL'S STAGGERED POINT STEEL BELT LACING applied to an ordinary Single Leather Belt.
Note the staggered points which enter the belt in double rows.
Write for free samples to test on your own belts.

**THE BRISTOL CO., WATERBURY, CONN.**
Branch Offices: NEW YORK PITTSBURGH CHICAGO

Missouri Belting Co. ("Victor" Rawhide), St. Louis, Mo.
National Leather Belting Co. (Rawhide), 35 Vestry, New York
**New York Belting & Packing Co. (Ltd.), 91 Chambers, New York**
New York Leather Belting Co. ("Victor" Leather), 51 Beekman, New York
**North Chelmsford Machine & Supply Co., North Chelmsford, Mass.**
Norwich Belt Mfg. Co. ("Defiance," "Sampson," "Chrome," etc.), Norwich, Conn.
**Page Belting Co. ("Hercules"), Concord, N. H.**
Palmer, N. & Co., Bridgeport, Conn.
Quride Co. ("Quride"), Syracuse, N. Y.
Rhoads, J. E. & Sons ("Tannate"), 12 N 3d, Phila., Pa. Works: Wilmington, Del.
**Salisbury, W. H. & Co. (Rawhide & "Salisbury" Apex Wire), 166 Wabash av, Chicago, Ill.**
Schieren, Chas. A. & Co. ("Cowboy," "Giant"), 30 Ferry, New York
Shultz Belting Co. (Rawhide Lace Leather), 402 Barton, St. Louis, Mo.
Southern Belting Co., Atlanta, Ga.
Southern Belting Co., New Orleans, La.
**Southwick, Geo. W. Co. (Inc.) (Wire), 35 Warren, New York**
**Stone, J. B. Co. ("Clipper's" System of Wire), Grand Rapids, Mich.**
Sumner, Wm. Belting Co. (Leather), Tolland, Conn.
U. S. Chemi Belting Co. ("Simplex"), 106 S Jefferson, Chicago, Ill.
**Upson Nut Co. (Metallic), Unionville, Conn., & Cleveland, O.**
Walker's, Chas. W. Sons & Co. (Lace Leather), Newark, N. J.
**Weatherhead, Thompson & Co. (Rawhide), Pawtucket, R. I**
**Western Rawhide & Belting Co. (Rawhide), Milwaukee, Wis**
Williams, I. B. & Sons ("Cocheco" Rawhide & "Oriole" Tanned), Dover, N. H., & 17 W Lake, Chicago, Ill.

## Belt Lacing Machines

(See Machinery)

## 476— Belt Shifters

**BROWN, A. & F. CO., 172 Fulton, New York. Works: Elizabethport, N. J. (See adv. index, end of book)**
Builders' Iron Foundry, Providence, R. I.
Chander & Farquhar Co. ("Pratt"), Boston, Mass.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Falls Clutch & Machinery Co., Cuyahoga Falls, O.
Foster Engineering Co., Newark, N. J.
International Belt Shifter Co., Toledo, O.
Mason Regulator Co., Boston, Mass.
**Mossberg Wrench Co. ("Multi-Pull"), Central Falls, R. I.**

## Belt Stretching Machines

(See Machinery)

## 477— Belt Studs

Buffalo Specialty Co. ("Twist Brand," Cold Rolled Steel), Buffalo, N. Y
Greene, Tweed & Co. ("Blake's," "Empire"), 109 Duane, New York

## 478— Belt Tighteners

Adams Company, Dubuque, Ia.
**ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)**
American Tool & Machine Co., Boston, Mass.
Billings & Spencer Co., Hartford, Conn.
**BROWN, A. & F. CO., 172 Fulton, New York. Works: Elizabethport, N. J. (See adv. index, end of book)**
Burlingame A., Co., Worcester, Mass.
**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index, end of book)**
Cresson, Geo. V. Co., Allegheny av, W of 17th Phila., Pa
Davis, F. M. Iron Works Co., Denver, Colo.
Diamond Iron Works, Minneapolis, Minn.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Mach'y Co., Cuyahoga Falls, O.
Filer & Stowell Co., Milwaukee, Wis.
Goodell-Pratt Co. ("Farley's"), Greenfield Mass
Great Western Mfg. Co., Leavenworth, Kan.
Hill Clutch Co., Cleveland, O.
Hoggson & Pettis Mfg. Co. ("Porter"), New Haven, Conn.
Hunt, Rodney Machine Co., Orange, Mass.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lane Mfg. Co. (Swing & Slide), Montpelier, Vt.
**LINK BELT COMPANY, Hunting Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)**
Marseilles Mfg. Co., Marseilles, Ill.
Medart Patent Pulley Co. (Various Kinds) 3500 DeKalb, St. Louis, Mo
Memphis Machine Works, Memphis, Tenn.
**MINNEAPOLIS STEEL & MACHINery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)**
Nordyke & Marmon Co., Indianapolis, Ind.
Diamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md
Sellers, Wm. & Co. (Inc.), 1600 Hamilton Philadelphia, Pa
Union Iron Works Co., San Francisco, Cal.
U. S. Machine Co., Williamsport, Pa.
Walker Mfg. Co., Denver, Colo.
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)**
Woods, T. B. Sons Co., Chambersburg, Pa.

## 479— Belt Webbing

Buffalo Weaving & Belting Co., Buffalo, N. Y
Hope Webbing Co., Providence, R. I.

## 480— Belting Mfrs.

NOTE—The Various Kinds of Belting Manufactured by the Firms listed under this heading are indicated in the parentheses following their names.
For Dealers in Belting, see Mill & Factory Supplies)

### ALABAMA.

MOBILE—**BOSTON BELTING CO.** (Turner Supply Co., Rep.), 23 South Commerce. (See adv. index, end of book)

### CALIFORNIA.

**SAN FRANCISCO—BOSTON BELTING CO.**, 55 First. (See adv. index, end of book)
**Bowers Rubber Works (Rubber), 57 Sacramento**
Cook, H. N. Belting Co. (Leather & Rawhide)
Degen, L. P. Belting Co. (Leather)
**Gorham Rubber Co. (Rubber), San Francisco, Cal.**
Heins, Alex. Belting Co. (Leather & Rawhide)

### CONNECTICUT.

BRIDGEPORT—Palmer, N. & Co. ("Charter Oak," Short Lap Leather)
HARTFORD—Jewell Belting Co. (Leather)
MIDDLETOWN—Rusell Mfg. Co. (Solid Cot-
NEW HAVEN—Coe & Brown (Leather) ton)
NORWICH—Norwich Belt Mfg. Co. (Oak Tanned)
Ulmer Leather Co. ("Sachem" Oak Leather)
TOLLAND—Sumner, Wm. Belting Co. (Underwood," Patent Cotton Leather Belting, Watch Twist, Angular or V, Round Solid, Plain Cotton & Round Twist)

### DELAWARE.

WILMINGTON—McComb, Thos. (Leather)
Rhoads, J. E. & Sons (Leather). (See Phila., Pa.)

### GEORGIA.

**ATLANTA—BOSTON BELTING CO.** (Southern Belting Co., Rep.), 40-46 Forsyth. (See adv. index, end of book)
Southern Belting Co. (Leather)

### ILLINOIS.

CHICAGO—Allen, W. D. Mfg. Co. (Leather), 151 Lake
Ambrose & Spalding ("Primo"), 42 Michigan
American Belting Co. (Cotton, Canvas Stitched, etc.), 152 Lake
**BOSTON BELTING CO.**, 177 Lake. (See adv. index, end of book)
**CARPENTER, GEO. B. & CO., 202** S Water. (See adv. index, end of book)
Chicago Belting Co. ("Reliance" & "Sea Lion" Waterproof Leather), 125 N Green
Chicago Rawhide Mfg. Co. ("Krome" & Rawhide Leather), 1301 Elston av
Fensholt & Fechner, 17 N Canal
Hercules Mfg. Co., 4328 Greenwood av
Lynch, Edw. & Co. (Leather), 31 S Clinton
**McILROY BELTING & HOSE CO.** ("Rubber-Ite" Canvas), 131 N Canal. (See adv. index, end of book)
Mechanical Rubber Co. ("Elephant" Rubber), 230 Randolph
Moloney Belting Co. (Leather), 224 Randolph
Munson, Chas. Belting Co. (Leather, Oak Tanned, also Round), 88 Franklin
Salisbury, W. H. & Co. (Leather), 166 Wabash av
**United States Chemi Belting Co.** ("Chemi" Linen Cord Center), 109 S Jefferson
Woodcock Bros. (Leather), 544 W Lake
CLEARING—Rubbertex Cloth & Paper Co. (Canvas Stitched)

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## INDIANA.

EVANSVILLE—**Evansville Leather & Belting Co. (Leather)**
HAMMOND—McIlroy Belting & Hose Co. ("Rubber-Ite" Canvas)
INDIANAPOLIS—**BOSTON BELTING CO.** (Taylor Belting Co., Rep.), 247 S Meridian. (See adv. index, end of book)
Hide, Leather & Belting Co., 227 S Meridian

## IOWA.

CEDAR RAPIDS—**PEERLESS-V-BELT** Co. ("Peerless-V-Belts"). (See adv. index, end of book)

## LOUISIANA.

NEW ORLEANS—Southern Belting Co.
SHREVEPORT—**Gulf States Belting & Hose Co. (Leather)**

## KENTUCKY.

LOUISVILLE — **BOSTON BELTING CO. (W. & A. C. Semple, Rep.), 311 W Main. (See adv. index, end of book)**

## LOUISIANA.

NEW ORLEANS—**BOSTON BELTING CO.** (Southern Belting Co. of New Orleans, Rep.), 718-720 Union

## MAINE.

BANGOR — **BOSTON BELTING CO. (M. Schwartz' Sons, Rep.) (See adv. index, end of book)**
LEWISTON—Dickey, H. H. & Son (Leather)

## MARYLAND.

**BALTIMORE—Baltimore Belting Co. ("Baltobelt" Oak Bark Tanned and "Navy Special"), 113 W Lombard**
**BOSTON BELTING CO. (Carey Machinery & Supply Co., Rep.), 119-121 E Lombard.** (See adv. index, end of book)
**Chesapeake Belting Co. (Stitched Canvas)**
Druid Oak Belting Co. (Oak Tanned, Acid, Water & Steam Proof)
**Gandy Belting Co. (Sewed Cotton Duck)**
Maryland Belting & Packing Co. (Leather)
Mount Vernon Belting Co. ("Mt. Vernon" & "Obstitch" Stitched Canvas)

## MASSACHUSETTS.

BOSTON—American Belting & Tanning Co. "Aquamarine" Water Proof Mineral Tanned Leather, Oak Tanned Leather), 135 Oliver
**Barnes, Henry K. (Oak & Mineral Tanned Leather, Steam & Water Proof), 234 Devonshire**
**Bay State Belting Co. (Oak & Indian Tanned Leather), 43 High**
Bird, J. A. & W. & Co. ("Bird's," Bull's Eye)
**BOSTON BELTING CO. (Rubber, Stitched, Gutta Balata ("Forsyth" Patent. "Universal" Conveyor, Elevator. Endless, Red Frictioned, etc.), 260 Devonshire. (See adv. index, end of book)**
Carton Belting Co. (Stitched Canvas), 52 Everett, Alls.
**Globe Leather Belting Co. (Leather), 151 Pearl**
**Hunt, Henry C. Co. (Leather), 32 Oliver**
**Ireson, C. L. (Leather), 221 High**
**Knowlton, Geo. W. Rubber Co. (Rubber), 60 Pearl**
Masachusetts Belting Co. (Wire Hemp Combination)
**Revere Rubber Co. (Giant, Seamless & Stitched Rubber), 77 Bedford**
**Shackley, W. T. & Son (Leather), 49 High**
**CAMBRIDGE—Boston Woven Hose & Rubber Co. ("Perfection" Rubber Belting Constructed of Fine Closely Woven Duck)**
FALL RIVER—Hervey, F. L. & Co. (Oak Tanned Leather)
Union Belt Co. (Oak Tanned)
**HOLYOKE—Holyoke Belting Co. (Short Lap Leather & Submarine & Waterproof Leather)**
LAWRENCE—McLanathan, F. W. & Son (Leather)
**National Belting Co. ("Textol" Canvas & Leather)**
LOWELL—Turner, J. S. Mfg. Co. ("Royal Oak" Oak Tanned Leather)
**Whiting, Henry F. (Oak Tanned Leather)**
**NORTH CHELMSFORD — North Chelmsford Machine & Supply Co. (Oak Tanned Leather)**
**SOUTH ATTLEBORO — Coupe, Wm. & Co. ("Excelsior" Raw Hide)**
SPRINGFIELD—Springfield Belting & Supply Co. (Leather)
WORCESTER—Graton & Knight Mfg. Co. (Oak & Indian Leather)
**HUDSON BELTING CO. (Stretched Oak, Mineral & Indian Tanned Leather), 3 Eaton pl.** (See adv. index, end of book)
**Multiple Woven Hose & Rubber Co. (Solid. Multiple Woven Waterproof)**
**Warren, J. F. & W. H. Co. (Oak Tanned)**

## MICHIGAN.

BUCHANAN—Atlas Belting Co.
DETROIT—Detroit Oak Belting Co. (Oak Tanned, Short Lap), 262 Wight
Edwards, H. D. & Co. (Leather)
Wayne Belting Co. (Leather)
GRAND RAPIDS—Grand Rapids Belting Co.
Raniville, F. Co. (Leather) (Leather)
**NILES — National Leather Mfg. Co. ("National" Surface Tan & Oak Tan, etc.)**

## MINNESOTA.

MINNEAPOLIS—Nott, W. S. Co. (Oak Tanned Sikes, S. R. Co. (Leather) Leather)
**ST. PAUL — BOSTON BELTING CO. (Crane & Ordway Co., Rep.), 5th & Rosabel. (See adv. index, end of book)**

## MISSOURI.

KANSAS CITY — **BOSTON BELTING CO.** (English Tool & Supply Co., Rep.), 410 W 5th. (See adv. index, end of book)
**ST. LOUIS—Bennett Dreyer Belting Co., 3110 N 11th**
**BOSTON BELTING CO. (Handlan-Buck Mfg. Co., Rep.), 210-214 N 3d. (See adv. index, end of book)**
Byrnes Belting Co. (Leather, Canvas & Rubber)
**Capen Belting & Rubber Co. ("Edge-On," Laminated Leather), Main & Chestnut**
**Freadrich Belting Co. (Leather), 2922 Lucas av, St. Louis, Mo.**
Missouri Belting Co. ("Giant" Rawhide & Oak Tanned Leather), 120 S Commercial
National Belting & Hose Co.
**Shultz Belting Co. (Raw Hide & Woven Leather Link), 402 Barton**
**Union Belting Co., 400 N 2d**

## NEW HAMPSHIRE.

CONCORD—Page Belting Co. (Leather)
DOVER—Williams, I. B. & Sons (Oak Tanned Leather)

## NEW JERSEY.

BLOOMFIELD—Combination Rubber Mfg. Co. ("Indestructine" Rubber)
Crisp, Jas. & Co. (Round & Twist, etc.)
HAMILTON SQUARE—Sayen Rubber Co. ("Mercer," "Hudson," "Salem," "Essex")
HARRISON—**WALSH'S SONS & CO.** (See adv. index, end of book)
JERSEY CITY—Eureka Fire Hose Co. (Cotton Machine)
N. J. Car Spring & Rubber Co. ("Gladiator" Quilt Stitched)
Voorhees Rubber Mfg. Co. (Rubber, "Criterion," "Union," "Federal," "Bostwick," "American," "Conqueror," "Corliss," "Sensation," "Clairmont," "Power")
**NEWARK — Couse & Bolton (Oak Tanned Leather), 25 Camfield**
**De Forge Belting Co. (Oak Tanned, Short Lap Leather), 301 Market**
**Gaskell, Chas. L. (Leather), 29 Filmore**
Meier-Andres Belting Co. (Leather)
**Meier's, Joseph Sons (Leather, "Steer Brand"), 306 Market**
**Phoenix Belting & Oil Co. (Oak Tanned), 225 Bruce**
**ROSSENDALE - REDDAWAY Belting & Hose Co. ("Sphinx" & Other Brands of Stitched Canvas Belting; also the "Camel" Brand Hair Belting). (See adv. index, end of book)**
Walker's, Chas. W. Sons & Co. (Oak Tanned Leather)
PASSAIC—Dick, R. & J. ("Dickbelt")
Manhattan Rubber Mfg. Co. (See New York)
New York Belting & Packing Co. (See New York)
**TRENTON—Acme Rubber Mfg. Co. (Rubber)**
**Orescent Belting & Packing Co. (Rubber)**
**Empire Rubber Mfg. Co. (Rubber & Stitched)**
**Hamilton Rubber Mfg. Co. (Rubber)**
**HOME RUBBER CO. (Rubber)** (See adv. index, end of book)
Lanning, Geo. W. (Oak Leather, etc.)
United & Globe Rubber Mfg. Co. (Rubber)
Whitehead Bros. Rubber Co. (Rubber)

## NEW YORK.

ALBANY — Albany Belting & Supply Co. (Leather)
BUFFALO — **BICKFORD & FRANCIS** Belting Co. (Leather), 37 Pearl. (See adv. index, end of book)
**BOSTON BELTING CO. (Rubber,** Stitched, Gutta Percha, "Forsyth" Patent "Universal" Conveyor, Elevator, Endless, Red Frictioned, etc.), 90 Pearl. (See adv. index, end of book)


INDIAN TANNED BELTING, also MINERAL TANNED.

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TANNERS AND CURRIERS BELTING AND LACE LEATHERS.

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**Stretched Oak Tanned Leather Belting,**

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**American Belt Cement** Makes the strongest and most pliable joint known.

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BELTING, Balata
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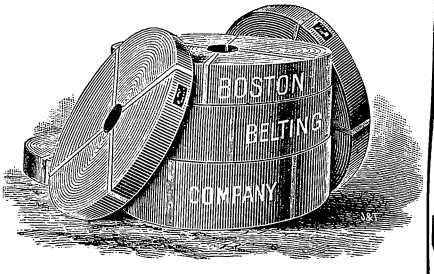
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FIRE HOSE Cotton, Rubber Lined FIRE HOSE

BELT DRESSING


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Uniform in Width and Thickness
Adapted for Heat and Cold and for Use in Damp or Wet Places
Strong, Durable, Great Adhesion to Pulleys, Maximum Transmission, Costs Less than Leather




For the transmission of power. We carry a large and complete stock from which we can make prompt shipments.
Special belts of any width or thickness made at short notice.




CONVEYOR BELTING

with extra thick or reinforced rubber cover. We make this kind of belting with a cover especially adapted for carrying coal, ore, sand, cement, gravel and various other materials.

**IMPERIAL STITCHED BELTING** TRADE MARK — The best known and known to be the best Stitched Rubber Belt upon the market.

**HOSE OF ALL KINDS**

**PACKINGS IN GREAT VARIETY**

**HIGH GRADE MECHANICAL RUBBER GOODS**

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CLEVELAND
PHILADELPHIA
PITTSBURG
SAN FRANCISCO
PORTLAND, ORE.

# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

**Hendricks' Commercial Register**

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Buffalo Weaving & Belting Co. (Solid Cotton Machine, 2 to 10 Ply; also Rubber), 234 Chandler

Peerless Belting Co., 105 Main

LOCKPORT—Empire Mfg. Co. (Cotton Rubber Lined)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Brooklyn Leather Belting Co., 42 S 6th

N. Y. Leather Belting Co., 467 Kent av

### Boroughs of Manhattan & Bronx.

NEW YORK—American Laminated Belting Co. (Laminated Leather), 111 Hudson

Ballard, Stephen Rubber Co., 90 W B'way

Bonnor & Barnewell, Inc. ("Perfection" Leather), 113 Hudson

**BOSTON BELTING CO. (of Boston, Mass.)** (Rubber, Stitched, Gutta Balata, "Forsyth" Patent "Universal" Conveyor, Elevator, Endless, Red Frictioned, etc.), 100 Reade. (See adv. index, end of book)

Boyle, John & Co. (Solid Woven Cotton, Rubber Filled), 112 Duane

Dick, R. & J. (Ltd.) ("Dickbelt" Balata, Gutta Percha & Canvas), 50 Church

Duryea Mfg. Co. ("Wooster's" Cotton Waterproof), 69 Wall

Eureka Fire Hose Co. (Cotton Machine), 13 Barclay

Fay Belting Co. (Indian Tanned Leather), 151 Lafayette

Fay, W. C. Belting Co. (Oak Tanned), 78 Warren

Goodyear Rubber Co., 787 B'way

Gutta Percha & Rubber Mfg. Co., 126 Duane

Hendry Laminated Leather Belting Co. (Laminated Leather), 1 E 42d

Ladew, Edward R. (Est. of) ("Hoyt," "Flintstone" Short Lap Oak Tanned Belting), 82 Fulton

Loeb Bros. Leather Belting Co. (Leather), 29 Ferry

Manhattan Rubber Mfg. Co. ("Condor" Rubber), 18 Vesey

Mechanical Rubber Co. (Rubber), 73 Reade

Mineralized Rubber Co. ("Mincot" Rubber), 18 Cliff

National Leather Belting Co. (Oak Tanned) 35 Vestry

New York Belting & Packing Co. (Ltd.), 91 Chambers

New York Leather Belting Co. (Leather, Balata & Canvas), 51 Beekman

**NEW YORK RUBBER CO.** (Rubber), Reade & Church. (See adv. index, end of book)

Olmstead-Flint Co. ("Balata" Leather & Rubber), 136 Liberty

Peeress Rubber Mfg. Co. (Rubber), 16 Warren

Rahmann, Geo. & Co. (Leather), 6 Ferry

Schieren, Chas. A. & Co. (Oak Tanned & "Duxbak" Steam & Waterproof), 30 Ferry

Schwartz Belting Co. (Leather), 76 Murray

Southwick, Geo. W. Co. (Inc.) (Reinforced Double), 35 Warren

**STRONG MACHINERY & SUPPLY** Co. ("Strong's Tisafine"), 48 Franklin. (See adv. index, end of book)

Waterbury Rubber Mfg. Co. (Rubber), 75 Warren

**(End of New York City)**

ROCHESTER—Cross Bros. & Co. (Leather)

Superior Belting Mfg. Co.

SYRACUSE—Syracuse Supply Co. (Oak Tanned Leather)

TROY—Barnum Bros. Co. (Oak Tanned)

Pine & Co.

Troy Belting & Supply Co. (Leather)

UTICA — Smyth-Despard Co. (Oak Tanned Leather)

## NORTH CAROLINA.

CHARLOTTE—Charlotte Leather Belting Co.

## OHIO.

AKRON—Akron Belting Co. (Leather, "Akron" Brand)

Diamond Rubber Co. (Rubber, "Python," "Titan," "Spinx," "Gulf," "Moose," "Lynx")

**GOODRICH, B. F. CO. ("Goodrich," "Pilgrim," "Pinnacle," "Cycle," "Rob Roy," "Marathon").** (See adv. index, end of book)

**CINCINNATI—BOSTON BELTING CO.** (Queen City Supply Co., Rep.), 201 W Pearl. (See adv. index, end of book)

Bradford Belting Co. (Leather)

Burr Oak Belting Co. ("Burr," Oak Tanned)

Cincinnati Rubber Mfg. Co. (Rubber)

Eagle Counter & Leather Co. (Leather)

Franklin Cotton Mill Co. (Cotton), Charles & Plum

Regal Belting Co. (Leather) 1811 Linn

CLEVELAND—American Fabric Belting Co. ("Nestor" Solid Woven Waterproof for Drive or Conveyor), Cleveland, O.

**BOSTON BELTING CO.** (W. Bingham Co., Rep.), 1433-1455 9th, N. W. See adv. index, end of book)

Cleveland Belting & Machinery Co., 8 Long

Consumers' Rubber Co. (Rubber, etc.)

Martin Rawhide Belting Co. (Rawhide)

Mechanical Rubber Co. (Rubber)

Republic Belting Co. (Leather Oak Tanned), 1616 W 3d N. W.

Sawyer Belting Co. (Canvas Stitched)

**COLUMBUS — JEFFREY MFG. CO. ("Century" Rubber.)** (See adv. index, end of book)

**TOLEDO — BOSTON BELTING CO.** (Bostwick, Braun Co., Rep.) (See adv. index, end of book)

Hettrick Bros. Co. ("Hettrick's" Canvas Stitched & Sewed Cotton Duck)

Toledo Belting Co. (Leather)

YOUNGSTOWN — American Belting Co. ("Alpha," Heavy Canvas)

Republic Rubber Co. (Rubber)

## OREGON.

PORTLAND—**BOSTON BELTING CO.** 105 First. (See adv. index, end of book)

## PENNSYLVANIA.

ALLENTOWN — **BOSTON BELTING CO.** (Wm. H. Taylor & Co., Rep.), 250 Hamilton. (See adv. index, end of book)

CHESTER—Wilby, Thos. & Sons (Leather)

ERIE—**CONTINENTAL RUBBER** Works (Rubber). (See adv. index, end of book)

HAZLETON—**BOSTON BELTING CO.** (Hazleton Machinery & Supply Co., Rep.). (See adv. index, end of book)

NORRISTOWN—Keystone Belting & Supply Co. (Round, Twist & Flat Leather, etc.)

PHILADELPHIA—Alexander Bros. (Oak Tanned), 406 N 3d

Anchor Packing Co. ("Ankorite" Leather & Rubber), Gtn. & Allegheny avs

Arny, C. W. & Son (Oak Tanned), Trenton av c E Somerset

Barlow Bros. (Leather), 547 N 64th

Bond, Chas. Co. (Leather), 520 Arch

**BOSTON BELTING CO. (Mulconroy Co. (Inc.), Rep.), 722 Arch.** (See adv. index, end of book)

Brown, D. P. & Co. ("Teon," made in England), 264 N 4th

Etsweiler, Wm. (Indian Tanned), 230 N 3d

Fisher Leather Belting Co., 408 Vine

Gilmer, L. H. Co. (Leather), 52 N 7th

Main Belting Co. ("Leviathan," Canvas), 1237 Carpenter

Mulconroy Co. (Inc.) (Rubber & Leather), 722 Arch

National Mat & Belt Co., Frankford

Paulus, Jos. C. & Co. (Leather), 2507 Potter

Pechin, Jno. W. (Oak Leather), 700 N Front

Pechin, T. E. (Oak Leather), 1845 N 6th

Quaker City Rubber Co. (Chas. A. Daniel, Prop.) (Rubber), 629 Market

Restein, Clement & Co. (Rubber, etc.), 139 N 2d

Rhoades, J. E. & Sons, 12 N 3d. Works: Wilmington, Del.

Richie, Crawford & Co. (Leather), 420 N 3d

Ruboil Belting Co. ("Ruboil" Canvas), 47 N 7th

Wise & Bailey (Leather), 108 Walnut

PITTSBURG — **BOSTON BELTING CO.** (J. & H. Phillips, Rep.), 136 6th. (See adv. index, end of book)

Hartley-Rose Belting Co. (Leather), 425 1st av

**JEFFREY MFG. CO. ("Century" Rubber,)** (See adv. index, end of book)

Pittsburg Rubber & Leather Co. (Leather), 14 Wood

**PITTSBURGH GAGE & SUPPLY** Co., 30th & Liberty av. (See adv. index, end of book)

SCRANTON—**BOSTON BELTING CO.** (Scranton Supply & Machinery Co., Rep.), 131 Wyoming. (See adv. index, end of book)

## RHODE ISLAND.

BRISTOL—National India Rubber Co. (Rubber)

PAWTUCKET—Bucklin, C. R. Belting Co.

Weatherhead, Thompson & Co. (Leather)

PROVIDENCE—Providence Belting Co. (Oak Tanned & Waterproof Copper-Wire-Sewed Oak Leather)

## TENNESSEE.

MEMPHIS—**BOSTON BELTING CO.** (Lee Bros., Rep.), 4 S Front. (See adv. index, end of book)

Reed & Duecker (Leather)

NASHVILLE—**BOSTON BELTING CO.** (Keith, Simmons & Co., Rep.), 316-318 Union. (See adv. index, end of book)

## VIRGINIA.

RICHMOND—Richmond Leather Mfg. Co. (Leather)

Virginia Leather Co. (Oak Tanned)

## WASHINGTON.

EVERETT—Caldwell & Co. (Oak Tanned & Asbestos Waterproof)

SEATTLE—Tolsma, R. B. & Co.

## WISCONSIN.

MILWAUKEE—Milwaukee Leather Belting Co.

Rasmusser, Julius

Schmidt, Otto E. Belting & Rubber Co. (Leather & Rubber)

Western Raw Hide & Belting Co. ("White" Rawhide & "Superior" "Hammond" Surface Tanned)

## 481—Belting Mfrs. (Acid Proof)

Combination Rubber & Belting Co. ("Indestructine"), Bloomfield, N. J.

Druid Oak Belting Co. (Oak Tanned), Baltimore, Md.

**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

McIlroy Belting & Hose Co. ("Rubber-Ite," Canvas), Hammond, Ind.

**ROSSENDALE-REDDAWAY BELTING** & Hose Co. ("Camel Hair"), Newark, N. J. (See adv. index, end of book)

## 482—Belting Mfrs. (Angular)

Page Belting Co., Concord, N. H.

Rahmann, Geo. & Co., 6 Ferry, New York

Sumner, Wm. Belting Co. (Or V Belting). Tolland, Conn.

## 483—Belting Mfrs. (Balata)

**BOSTON BELTING CO., 256 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)

**CONTINENTAL RUBBER WORKS, Erie, Pa. (See adv. index & branch offices, end of book)**

Dick, R. & J. (Ltd.) ("Dickbelt," Balata, Gutta Percha & Canvas), 50 Church, New York

Imperial Belting Co. ("Pyramid-Balata"), 166 W Kinzie, Chicago, Ill.

New York Leather Belting Co. ("Victor." Imported), 51 Beekman, New York

Olmsted-Flint Co., 136 Liberty, New York

Republic Rubber Co. ("Lanco"), Youngstown, O.

**ROSSENDALE-REDDAWAY BELTING** & Hose Co., Newark, N. J. (See adv. index, end of book)

**STRONG MACHINERY & SUPPLY** Co. ("Tisafine"), 48 Franklin, New York. (See adv. index, end of book)

## 484—Belting Mfrs. (Camel's Hair)

**ROSSENDALE-REDDAWAY BELTING & Hose Co. (The "Camel" Brand Hair Belting), Main Office & Works, Newark, N. J. (See adv. index, end of book)**

## 485—Belting Mfrs. (Canvas, Linen Cord Center)

**United States Chemi Belting Co. ("Chemi"), 109 S Jefferson, Chicago, Ill.**

## 486—Belting Mfrs. (Canvas, Rawhide Center)

Chicago Rawhide Mfg. Co. ("Flint" Hide Belting Preston Patent), 1301 Elston av. Chicago, Ill.

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## 487– Belting Mfrs. (Canvas Stitched)

American Belting Co. ("Alpha"), Youngstown, O.
Atlas Belting Co., Buchanan, Mich.
Boston Woven Hose & Rubber Co. ("Milo," "Cyclops," "Grain King"), Cambridge, Mass.
Boyle, Jno. & Co., 112 Duane, New York
Carton Belting Co. ("Carton," Stitched Canvas), Boston, Mass.
Chesapeake Belting Co., Baltimore, Md.
Combination Rubber & Belting Co. (Straight & Serpentine Stitched), Bloomfield, N. J.
Consolidated Rubber Co. ("Granger"), Trenton, N. J.
Diamond Rubber Co., Akron, O.
Empire Rubber Mfg. Co. ("Champion"), Trenton, N. J.
Gandy Belting Co., Baltimore, Md.
Hettrick Bros. Co., Toledo, O.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Imperial Belting Co. ("Rexall," "Sahara"), 166 W Kinzie, Chicago, Ill.
McIlroy Belting & Hose Co. ("Rubber-Ite"), Hammond, Ind.
Main Belting Co. ("Leviathan"), 1219 Carpenter, Phila., Pa.
Mount Vernon Belting Co., Baltimore, Md.
National Belting Co., Lawrence, Mass.
National Leather Belting Co., 35 Vestry, New York
New Jersey Car Spring & Rubber Co. ("Gladiator" Quilt), Jersey City, N. J.
New York Leather Belting Co. ("Victory," "Viking"), 51 Beekman, New York
Page Belting Co., Concord, N. H.
**ROSSENDALE - REDDAWAY BELTing & Hose Co. ("Sphinx" & Other Brands), Newark, N. J.** (See adv. index, end of book)
Rubber & Celluloid Harness Trimming Co., Newark, N. J.
Rubbertex Cloth & Paper Co. ("Rubbertex" Black), Clearing, Ill.
Ruboil Belting Co., 47 N 7th, Phila., Pa.
Sawyer Belting Co. (Roll & Endless), Cleveland, O.
Thermoid Rubber Co. ("Hercules," "Ajax"), Trenton, N. J.
Trenton Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co. (Stitched Cotton Duck), Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 488–Belting Mfrs. (Chain Link)

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
**CALDWELL, H. W. & SON CO.,** Western av & 17th, Chicago, Ill. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Dodge Mfg. Co., Mishawanka, Ind.
Franklin Park Foundry Co. (Detachable), Franklin Park, Ill.
Herschel, R. Mfg. Co., Peoria, Ill.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY ("Ewart" Detachable & Pintle Chain), Hunting Park av & Reading Ry., Phila., Pa.** (See adv. index & branch offices, end of book)
Link, Jas. H. Machinery Co. ("Arrow Brand" Detachable Chain), Williamsport, Pa.
Locke Steel Belt Co., Bridgeport, Conn.
Mey Chain Belting Engineering Works, 77 Washington, Buffalo, N. Y.
Michigan Sprocket Chain Co., Detroit, Mich.
Moline Malleable Iron Co., St. Charles, Ill.
Moore & Lorenz Co., 2144 W Fulton, Chicago, Ill.
**PITTSBURG CONVEYING MACHINery Co. (All Kinds, Steel, Malleable Iron, etc.), Pittsburg, Pa.** (See adv. index, end of book)
Port Huron Engine & Thresher Co., Port Huron Mich.
Stowell Mfg. & Foundry Co. (Malleable Iron), S Milwaukee, Wis.
Taylor Iron & Steel Co. (Link), High Bridge, N. J
**WEBSTER MFG. CO., 2410 W. 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E. North av,** Chicago. (See adv. index, end of book)
West Allis Malleable Iron & Chain Belt Co., West Allis, Wis.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)
Whitney Mfg. Co., Hartford, Conn.

## 489–Belting Mfrs. (Concentrator)

Combination Rubber & Belting Co. ("Indestructene" Flanged), Bloomfield, N. J.
**ROSSENDALE-REDDAWAY BELTing & Hose Co., Newark, N. J.** (See adv. index, end of book)
Salisbury, W. H. & Co. (Flanged Edge "Vanner"), 116 Wabash av, Chicago, Ill.

## 490–Belting Mfrs. (Conveyor)

Ambrose & Spalding ("Primo"), 42 Michigan av, Chicago, Ill.
American Belting Co. ("Alpha," "American" Thresher), Youngstown, O.
American Fabric Belting Co. ("Nestor" Solid Woven Waterproof for Drive or Conveyor), Cleveland, O.
**BOSTON BELTING CO., 256 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co. (Rubber Conveyor & Transmission), Cambridge, Mass.
Brooks-Bateman Co. ("B. & B." Hallow Edge), San Francisco, Cal.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co. ("Indestructene"), Bloomfield, N. J.
Diamond Rubber Co. (Conveyor & Transmission Belting), Akron, O.
Dick, R. & J. Ltd. ("Dick's" Balata, Gutta Percha & Canvas), 50 Church, New York
Duryea Mfg. Co. ("Wooster's"), 69 Wall, New York
Gandy Belting Co., Baltimore, Md.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 122 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
McIlroy Belting & Hose Co. ("Rubber-Ite," Canvas Stitched), Hammond, Ind.
National Belting Co. ("Textol"), Lawrence, Mass.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
**ROSSENDALE-REDDAWAY BELTing & Hose Co. (Stitched Canvas, "Black Bird," Woven Cotton), Newark, N. J.** (See adv. index, end of book)
Salisbury, W. H. & Co., 166 Wabash av, Chicago, Ill.
Sawyer Belting Co. (Stitched Canvas), Cleveland, O.
Sayen Rubber Co. (Rubber), Hamilton Square, N. J.
Sumner, Wm. Belting Co. (Patent Cotton Leather), Tolland, Conn
Voorhees Rubber Mfg. Co., Jersey City, N. J.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

## Belting Mfrs. (Cotton)

(See Belting Manufacturers, Solid Cotton)

## 490a–Belting Mfrs. (Detachable Link)

(See Belting Manufacturers, Chain Link)

## 491–Belting Mfrs. (Dynamo)

Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.
National Leather Mfg. Co., Niles, Mich.
Page Belting Co., Concord, N. H.
**ROSSENDALE-REDDAWAY BELTing & Hose Co. ("Camel Hair"), Newark, N. J.** (See adv. index, end of book)
Shultz Belting Co., 402 Barton, St. Louis, Mo.
Western Rawhide & Belting Co. (Surface Tan), Milwaukee, Wis.

## 491a–Belting Mfrs. (Elevator)

(See Belting Manufacturers, Conveyor)

## 492–Belting Mfrs. (Laminated Leather)

American Laminated Belting Co. ("Albeco"), 111 Hudson, New York
Hendry Laminated Leather Belting Co., 1 E 42d, New York

## Belting Mfrs. (Leather)

(See Belting Manufacturers)

## 493–Belting Mfrs. (Leather Link)

National Mat & Belt Co., Frankfort, Phila., Pa.
Salisbury, W. H. & Co., 166 Wabash av, Chicago, Ill.

## 494–Belting Mfrs. (Oil & Gas Well Drilling)

**ROSSENDALE-REDDAWAY BELTing & Hose Co. ("Camel Hair"), Newark, N. J.** (See adv. index, end of book)

## 495–Belting Mfrs. (Perforated)

Schieren, Chas. A. & Co. (Electric), 30 Ferry, New York

## 496–Belting Mfrs. (Rawhide)

Bay State Belting Co. (Indian Tan), 43 High, Boston, Mass.
Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.
Coupe, Wm. & Co. ("Flexible," "Excelsior"), South Attleboro, Mass.
Graton & Knight Mfg. Co. (Indian Tan), Worcester, Mass.
Martin Rawhide Belting Co., Cleveland, O.
Missouri Belting Co. ("Giant"), 120 S Commercial, St. Louis, Mo.
National Leather Mfg. Co., Niles, Mich.
Olmsted-Flint Co., 136 Liberty, New York
Page Belting Co., Concord, N. H.
Shultz Belting Co. ("Sable," "Aqua"), St. Louis, Mo.
Western Rawhide & Belting Co. ("Superior"), Milwaukee, Wis.

## 497–Belting Mfrs. (Rawhide, Canvas Center)

Shultz Belting Co., 402 Barton, St. Louis, Mo.

## 498– Belting Mfrs. (Rope)

American Mfg. Co. (Manila, Sisal, etc.), 65 Wall, New York
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Chicago Rawhide Mfg. Co. (Rawhide), 1301 Elston av, Chicago, Ill.
**COLUMBIAN ROPE CO., Auburn,** N. Y. & 62 South, New York. (See adv. index, end of book)
National Leather Mfg. Co. (Rawhide, Surface Tan), Niles, Mich.
Page Belting Co., Concord, N. H.
Salisbury, W. H. & Co. (Rawhide), 166 Wabash
Western Rawhide & Belting Co. (Rawhide), Milwaukee, Wis.

## 499–Belting Mfrs. (Round or Twist)

Bay State Belting Co., 43 High, Boston, Mass.
Chicago Rawhide Mfg. Co. (Rawhide), 1301 Elston av, Chicago, Ill.
Coupe, Wm. & Co. (Rawhide Round), South Attleboro, Mass.
Crisp, James & Co., Bloomfield, N. J.
Graton & Knight Mfg. Co., Worcester, Mass.
**HUDSON BELTING CO., 3 Eaton pl,** Worcester, Mass. (See adv. index, end of book)
Jewell Belting Co., Hartford, Conn.
**Keystone Belting & Supply Co. (Round Leather),** Norristown, Pa.
Ladew, Edward R. (Est. of ) (Leather), 82 Fulton, New York
Missouri Belting Co. ("Ebony," Round), St. Louis, Mo.
National Leather Mfg. Co. (Rawhide, Surface Tan), Niles, Mich.
New York Leather Belting Co., 51 Beekman, New York
Page Belting Co. ("Crown" Leather), Concord, N. H.

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Providence Belting Co. (Folded Twist), Providence, R. I.
Salisbury, W. H. & Co. (Rawhide), 166 Wabash av, Chicago, Ill.
Rhoads, J. E. & Sons ("Tannate"), 12 N 3d, Phila., Pa. Works: Wilmington, Del.
Raniville, F. Co., Grand Rapids, Mich.
Western Rawhide & Belting Co. ("Superior"), Milwaukee, Wis.
Williams, I. B. & Sons ("Gilt Edge" Round), Dover, N. H.

## Belting Mfrs. (Rubber)

(See Belting Manufacturers With the Word Rubber Following Their Name)

## 500—Belting Mfrs. (Solid Cotton)

American Fabric Belting Co. ("Nestor," Solid Woven Waterproof), Cleveland, O.
Atlas Belting Co. ("Anchor"), Buchanan, Mich.
Bay State Belting Co. ("Standard"), 43 High, Boston, Mass.
**BOSTON BELTING CO., 256 Devonshire**, Boston, Mass. (See adv. index & branch offices, end of book)
Boyle, John & Co. (Solid), 112 Duane, New York
Buffalo Weaving & Belting Co., Buffalo, N. Y.
Duryea Mfg. Co. ("Wooster's"), 69 Wall, New York
Empire Mfg. Co. ("Empire" Waterproof), Lockport, N. Y.
Eureka Fire Hose Co., 13 Barclay, New York; Works: Jersey City, N. J.
Franklin Cotton Mills Co., Cincinnati, O.
Russell Mfg. Co., Middletown, Conn.

## 501—Belting Mfrs. (Thresher)

American Belting Co. (Endless Stitched Canvas, "Alpha," "American" Thresher), Youngstown, O.
Boston Woven Hose & Rubber Co. ("Grain King" Canvas), Cambridge, Mass.
Carton Belting Co. ("Carton," Endless), Boston, Mass.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chesapeake Belting Co. (Endless Stitched Canvas), Baltimore, Md.
Combination Rubber & Belting Co. ("Indestructene"), Bloomfield, N. J.
Diamond Rubber Co., Akron, O.
Gandy Belting Co. (Endless Stitched Canvas), Baltimore, Md.
Gilmer, L. H. & Co. (Endless), 52 N 7th, Philadelphia, Pa.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
McIlroy Belting & Hose Co. ("Rubber-Ite," Endless Canvas Stitched), Hammond, Ind.
Mt. Vernon Belting Co. ("Mt. Vernon," Endless), Baltimore, Md.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Quaker City Rubber Co. ("Rhinoceros," Endless Rubber), 629 Market, Phila., Pa.
Sawyer Belting Co. (Endless Stitched Canvas), Cleveland, O.
Sayen Rubber Co. (Rubber), Hamilton Sq., N. J.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

## 502—Belting Mfrs. (Waterproof)

American Fabric Belting Co. ("Nestor" Solid Woven), Cleveland, O.
**BOSTON BELTING CO., 256 Devonshire**, Boston, Mass. (See adv. index & branch offices, end of book)
Baltimore Belting Co. ("Navy"), Baltimore, Md.
Burr Oak Belting Co. ("Sealskin"), Cincinnati, O.
Caldwell & Co. (Asbestos Waterproof Leather), Everett, Wash.
Carton Belting Co. (Solid Woven), Boston, Mass.
Chicago Belting Co. ("Sea Lion," Leather), Chicago, Ill.
Dick, R. & J. ("Dickbelt," Balata, Gutta Percha & Canvas), Passaic, N. J., & 50 Church, New York
Druid Oak Belting Co., Baltimore, Md.
Duryea Mfg. Co. ("Wooster's" Cotton), 69 Wall, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**HUDSON BELTING CO. ("Mermaid"),** 3 Eaton pl, Worcester, Mass. (See adv. index, end of book)
McIlroy Belting & Hose Co. ("Rubber-Ite," Canvas Stitched), Hammond, Ind.
Multiple Woven Hose & Rubber Co. (Solid Multiple Woven), Worcester, Mass.
National Leather Belting Co. (Leather), 35 Vestry, New York
Nott, W. S. Co. ("Hero"), Minneapolis, Minn.
Page Belting Co., Concord, N. H.
**ROSSENDALE-REDDAWAY BELT-**ing & Hose Co. ("Camel Hair"), Newark, N. J. (See adv. index, end of book)
Salisbury, W. H. & Co. ("Seal Brand"), 166 Wabash av, Chicago, Ill.
Schieren, Chas. A. Co. ("Duxbak," Leather), 30 Ferry, New York
Williams, I. B. & Sons ("Shedite"), Dover, N. H.

## 502a—Belting Mfrs. (Wire)

**WEBB MFG. CO. ("Webb"), Newark, N. J.**

## 502b—Belting Mfrs. (Wire Hemp Combination)

Massachusetts Belting Co., Boston, Mass.

## 503— Belting Mfrs. (Woven Leather)

New York Leather Belting Co. ("Viking"), 51 Beekman, New York

## 504— Belts (Linemen's)

Bunge, Otto, Indianapolis, Ind.
Dicke, C. H. Tool Co., Downers Grove, Ill.
Feeser, Frank S. Co., Indianapolis, Ind.
Galewski, Adolph, 323 B'way, New York
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill
Meckel, Fred L., 11 E 13th, Chicago, Ill.

## 505— Belts (Polishing)

Ames Sword Co. (Endless Silk Sewed), Chicopee, Mass.
**BOSTON BELTING CO., 260 Devonshire**, Boston, Mass. (See adv. index & branch offices, end of book)
Chicago Rawhide Mfg. Co. (Rawhide), 1301 Elston av, Chicago, Ill.
**Combination Rubber & Belting Co.** ("Indestructene"), Bloomfield, N. J
Diamond Rubber Co., Akron, O.
Gilmer, B. F. & Co. ("Gilmer" Endless), 52 N 7th, Philadelphia, Pa.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**HUDSON BELTING CO., 3 Eaton pl,** Worcester, Mass. (See adv. index, end of book)
Manhattan Rubber Mfg. Co. (Canvas with Rubber Insertion), 18 Vesey, New York
Page Belting Co. (Leather), Concord, N. H.

## 506— Belts (Sand Paper)

Driver, C. H., Racine, Wis.

## 507—Belts (Wire, Automobile)

Empire Battery Co. (Inc.) ("Helix"), 1876 B'way, New York
McCord & Co., Old Colony bldg, Chicago, Ill
N. Y. Wire & Spring Co. ("Bull Dog"), 586 Washington, New York
Philadelphia Steel & Wire Co. ("Powco"), 528 Commerce, Philadelphia, Pa.
Webb Mfg. Co., Newark, N. J.

## 508— Bench Legs

New Britain Machine Co., New Britain, Conn.
Nordyke & Marmon Co., Indianapolis, Ind.
Western Tool & Mfg. Co., Springfield, O.

## 509—Benches (Cabinet & Pattern Makers', Etc.)

American Tool Chest Co., 200 W Houston, New York
Christiansen, C., 2219 Grand av, Chicago, Ill.
Diamond Clamp & Flask Co., Richmond, Ind.
Globe Vise & Truck Co., Grand Rapids, Mich.
Grand Rapids Hand Screw Co., Grand Rapids, Mich
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, Ohio Tool Co., Columbus, O. end of book)
Oliver Machinery Co., Grand Rapids, Mich.
Sheldon, E. H. & Co., 312 N May, Chicago, Ill.

## 509a—Benches (Core Makers')

**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)

## 510— Benches (Cutting)

Boos, John & Co., Effingham, Ill.
**Petoskey Block & Mfg. Co. (All Kinds), Petoskey, Mich.**

## 511— Benches (Draw)

Bates Machine Co., Joliet, Ill.
**Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.**
Morgan Construction Co., Worcester, Mass.
Ohl, Geo. A. & Co. (20 ft also 24 ft), Newark, N. J.
**Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.**
Perkins Machine Co. (Belt Power & Electrically Driven), Warren, Mass.
Richard Mfg. Co. Co., Bloomsburg, Pa.
Standard Machinery Co., Providence, R. I.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 512— Benches (Gas Retort)

**(See also Gas Works Apparatus & Construction)**

**AMERICAN REFRACTORIES CO.** (Silica), 125 Clark, Chicago, Ill. (See adv. index, end of book)
Baltimore Gas Retort & Fire Brick Co. (Half & Full Depth & Free Firing), Baltimore, Md.
Oldier-March Co. ("Dessau," System of Vertical Retorts), 50 Church, New York
Evens & Howard Fire Brick Co. ("Star"), St. Louis, Mo.
Gardner, Jas., Jr. Co. (Plain & Recuperative), Lockport Sta, Pa.
Gas Bench Construction Co. (For Coal Gas), St. Louis, Mo.
Improved Equipment Co. ("Doherty"), 60 Wall, Isbell-Porter Co., Newark, N. J. New York
Laclede-Christy Clay Product Co. ("Laclede-Christy"), St. Louis, Mo.
Missouri Fire Brick Co. (Inclined & Horizontal Benches), St. Louis, Mo.
Parker-Russell Mining & Mfg. Co., St. Louis, Mo.

## 512a—Benches (Hydraulic Draw)

**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 513—Benches (Machinists' Work)

Vanderman Mfg. Co., Willimantic, Conn.

## 514—Benches (Manual Training)

Globe Vise & Truck Co., Grand Rapids, Mich.
Grand Rapids Hand Screw Co., Grand Rapids, Mich.
**HAMMACHER, SCHLEMMER & CO.** 133 4th av, New York. (See adv. index, Ohio Tool Co., Columbus, O. end of book)
**RICHARDS-WILCOX MFG. CO.** ("Wilcox"), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Sheldon, E. H. & Co., 312 N May, Chicago, Ill.

## 515— Benches (Molders')

Obermayer, S. Co., Cincinnati, O.

## 516—Benches (Movable & Stationary)

Western Tool & Mfg. Co., Springfield, O.
Zering, H. Mfg. Co., Cincinnati, O.

## Benches (Saw)

(See Saw Benches or Tables)

## 517— Benches (Scraper)

**Reed, F. E. Co. (For Machine Shops), Worcester, Mass.**

## 518— Benches (Vise)

Jay-Zee Sales Co. (Portable), 150 Nassau, New York

## Benches (Wire Drawing)

(See Wire Drawing Machinery)

## 519— Benches (Work)

Manufacturing, Equipment & Engineering Co., S Framingham, Mass.

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## 520—Benders (Angle & Eye, Hand Power)

American Road Machine Co. ("Pennock"), Kennett Sq., Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Ford, Humphrey (For Bending Structural Iron), Springfield, Mass.
Hinman, D. A. & Co. (Also Ring & Hinge), Sandwich, Ill.
**Novelty Iron Works (G. E. Davis, Prop.), Dubuque, Ia.**
**RYERSON, JOSEPH T. & SONS, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Wallace Supply Co. ("Wallace"), 120 S Jefferson, Chicago, Ill.

## 521— Benders (Conduit)

**CHICAGO PNEUMATIC TOOL CO.** ("Little Giant"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cox, J. Fillmore & Co., Bayonne, N. J.
Glaze-Morris Mfg. Co. ("Gem"), Columbus, O.
Rittenhouse-Smith Co. ("Rittenhouse"), Scranton, Pa.
Steel City Electric Co. ("Fullman" Electric & Hand), Pittsburg, Pa.
Thomas & Betts Co. ("Lakin," "Standard," "Hickey"), 299, B'way, New York
Vanderman Mfg. Co., Willimantic, Conn.
Wrigley, Thos. Co., 88 Michigan av, Chicago, Ill.

## 522— Benders (Hook & Eye)

**Kidder, J. F. Mfg. Co., Burlington, Vt.**

## 523— Benders (Lead Pipe)

**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Bierdemann, R. C. & Co. ("Star"), 4740 Ashland av, Chicago, Ill.
**BUFFUM TOOL CO. (Bending Springs),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Cleveland Wire Spring Co., Cleveland, O.
Knapp Mfg. Co., 20 Warren, New York
**Lord, L. L. Co. ("Lord"), Meadville, Pa.**
Mark Mfg. Co., Evanston, Ill.
Morgan Spring Co., Worcester, Mass.
Raymond Mfg. Co., Corry, Pa.
Starbuck, R. M. & Sons, Hartford, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Walworth Mfg. Co., Boston, Mass.

## 524— Benders (Rail)

(See also Rail Bending & Straightening Machines)
Acme Truck & Tool Co., St. Louis, Mo.
Aldon Co. ("Jim Crow"), Monadnock blk, Chicago, Ill.
Buda Co. ("Buda," "Jim Crow" & Roller Rail Bender), Railway Exchange bldg, Chicago, Ill.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. ("Jim Crow," etc.),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flather, Mark Planer Co., Nashua, N. H.
Garrison, A. Foundry Co., Pittsburg, Pa.
Handlan-Buck Mfg. Co. ("Giant"), St. Louis, Mo.
Hardsocg Mfg. Co., Ottumwa, Ia.
Hardsocg Martin Co. ("Imperial" for Mine Rails), Pittsburg, Pa.
Harris, Wm. & Son Co., N S, Pittsburg, Pa.
Hubbard & Co., Pittsburg, Pa.
Irving Mfg. & Tool Co., 157 Chambers, New York
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Mesta Machine Co., Pittsburg, Pa.
Peterler Car Co., Minneapolis, Minn.
Pettibone, Mulliken & Co. (Roller), 204 Dearborn, Chicago, Ill.
Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
Q. & C. Co. ("Q. & C." "Samson," "Q. & C." Girder), Plainfield, N. J.
Secor, A. W. ("Jim Crow"), 65 Fulton, New York
Sherburne & Co. ("Sherburne"), Boston, Mass.
Stine, S. B. (Plain & Ratchet), Osceola Mills, Pa.
Union Drop Forge Co. ("Jim Crow"), 358 W Indiana, Chicago, Ill.
Valley Forging Co., Verona, Pa.
Verona Tool Works ("Manning," Eccentric, etc.), Pittsburg, Pa., & Verona, Pa.
Wallace Supply Co. ("Jim Crow," for Light Rails, Pipe, etc.), 120 S Jefferson, Chicago, Ill.
Western Tool & Forge Co., Brackenridge, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Wharton, Wm. Jr. & Co., 308 Walnut, Phila., Pa.
What Cheer Tool Co. ("Big Joe," "Little Joe"), What Cheer, Ia.
Zelnicker, Walter A. Supply Co. ("Zelnicker"), St. Louis, Mo.

## 525—Benders (Reinforcing Bar)

Chicago Builders Specialties Co. ("Acme"), 84 Van Buren, Chicago, Ill.
Fisher, Robt. ("Fisher"), 207 8th av, New York
Hanson, A. P. & Son ("Hanson"), 619 W Adams, Chicago, Ill.
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

## 526— Benders (Ring)

Wallace Supply Co. (Hand Power, from 1 to 20 inch Rings), 120 S Jefferson, Chicago, Ill.

## 527— Benders (Tire)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
Boynton & Plummer, Worcester, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Butts & Ordway Co. ("Boston"), Boston, Mass.
Champion Blower & Forge Co., Lancaster, Pa.
Comstock, Geo. S., Mechanicsburg, Pa.
Concord Axle Co., Penacook, N. H.
Flint Specialty Co., Flint, Mich.
Haven Malleable Casting Co., Cincinnati, O.
Huntsville Foundry & Machine Works, Huntsville, Ala.
Illinois Iron & Bolt Co. ("I. I. & B. Co." Roller Bearing), Carpentersville, Ill.
Indiana Foundry Co., Indiana, Pa.
Kane & Roach, Syracuse, N. Y.
National Fulton Brass Mfg. Co., Detroit, Mich.
Potts, David H., Lancaster, Pa.
Rockford Mfg. Co. ("Rockford"), Rockford, Ill.
Southern Skein & Foundry Co. (Common & Roller Bearing), Chattanooga, Tenn.
Swett, A. L. Iron Works, Medina, N. Y.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.
Williams, White & Co. (Also Welders), Moline, Ill.

## Bending (Pipe)

(See Pipe Bends & Coils)

## 528— Bends (Return)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co., Pittsburg, Pa.
**LUNKENHEIMER CO. (Brass),** General offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
National Tube Co. (Cast, Malleable & Iron), Pittsburg, Pa.
**Williams, D. T. Valve Co., Cincinnati, O.**

## 529— Benzine

Crew, Levick Co., Philadelphia, Pa.
Emery Mfg. Co., Bradford, Pa.
Petrolia Refining Co., Petrolia, Pa.
Southern Refining Co., Los Angeles, Cal.
Union Petroleum Co. (Deodorized), Phila., Pa.

## 530— Benzol Refiners

Avery Chemical Co., Boston, Mass.
Barrett Mfg. Co., Land Title bldg, Phila., Pa.
**CABOT, SAMUEL (Inc.), 141 Milk, Boston, Mass.** (See adv. index, end of book)
Harshaw, Fuller & Goodman Co., Cleveland, O.
**McClintock & Irvine (Crude), North Side, Pittsburg, Pa.**
National Aniline & Chemical Co. ("C. P.-90 Per Cent., & Straw Colored), 100 William, New York
Pacific Refining & Roofing Co., San Francisco, Cal.
Solvay Process Co., Syracuse, N. Y.
White Tar Co., 108 Broad, New York

## 530a—Berths (Hollow Metal)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## 531—Berths & Bunks (Metallic)

Lein, John P. & Co., 332 E 23d, New York

## 532—Bessemer Converter Bottoms

**HARBISON-WALKER REFRACTORIES** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 533— Bevels

Athol Machine Co., Athol, Mass.
**Bemis & Call Hardware & Tool Co., Springfield, Mass.**
Braunsdorf-Mueller Co. (T Perfection), Elizabeth, N. J.
Calhoon, A. D. & Co. ("Calhoon," Rafter & Polygon), Perry, Mo.
Chapin-Stephens Co. (Ship Carpenters', etc.), Pine Meadow, Conn.
Disston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.
Goodell-Pratt Co. ("Universal"), Greenfield, Mass.
Massachusetts Tool Co. (Draughtmans'), Greenfield, Mass.
Sawyer Tool Mfg. Co. (Combination), Fitchburg, Mass.
Southington Hardware Co., Southington, Conn.
Stanley Rule & Level Co., New Britain, Conn.
**STARRETT, L. S. CO. (Combination Universal, etc.),** Athol, Mass. (See adv. index & branch offices, end of book)

## Bibbs

(See Cocks & Bibbs)

## 534— Bi-Carbonate of Soda

Pennsylvania Salt Mfg. Co. ("Natrona"), 115 Chestnut, Phila., Pa.

## 535— Bi-Chloride of Tin

Goldschmidt-Detinning Co., 60 Wall, New York; Factories: Chrome, N. J., & Wyandotte, Mich.
Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Niagara Alkali Co., Niagara Falls, N. Y.

## 536— Bicycle Mfrs.

(See also Motor Cycles)

Arnold, Schwinn & Co., Chicago, Ill.
Consolidated Mfg. Co. ("Yale"), Toledo, O.
Davis Sewing Machine Co., Dayton, O.
Emblem Mfg. Co., Angola, N. Y.
Fowler-Manson-Sherman Cycle Mfg. Co., Chicago, Ill.
Gendron Wheel Co., Toledo, O.
Great Western Mfg. Co., La Porte, Ind.
Hendee Mfg. Co., Springfield, Mass.
Johnson, Iver Arms & Cycle Works, Fitchburg, Mass.
Liberty Cycle & Motor Co. ("Liberty," "Bridgeport"), Bridgeport, Conn.
Merkel-Light Motor Co., Pottstown, Pa.
Miami Cycle & Mfg. Co. ("Racycle"), Middletown, O.
National Cycle Mfg. Co., Bay City, Mich.
Pierce Cycle Co., Buffalo, N. Y.
Pope Mfg. Co., Hartford, Conn.
Reading Standard Co., Reading, Pa.
Snyder, H. P. Mfg. Co., Little Falls, N. Y.
Strohm, W. A. & Bro., 1612 W Lake, Chicago, Ill.
Toledo Metal Wheel Co., Toledo, O.
Worthington Co., Elyria, O.

## 537—Bicycle Parts & Sundries

(See also Bolts, Bicycle; also Chains, Bicycle; also Nuts, Bicycle; also Pumps, Bicycle; also Screws, Bicycle; also Springs, Bicycle; also Tubing, Bicycle)

Aurora Automatic Machinery Co. (Hubs), Aurora, Ill.
Beckley-Ralston Co., 80 Michigan av, Chicago, Ill.
Bevin Bros. Mfg. Co. (Toe Clips, Trouser Guards, etc.), East Hampton, Conn.
Buckeye Mfg. Co., Canton, O.
Buescher Band Instrument Co., Elkhart, Ind.
Bullock Mfg. Co. (Rims), Springfield, Mass.
Climax Mfg. Co. (Saddles, etc.), East Hampton, Conn.
Collmer Bros., South Bend, Ind.
Consolidated Mfg. Co. (Handle Bars), Toledo, O.

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Corbin Screw Corporation (Special to Order), New Britain, Conn.
Crosby Co. (Stamped Steel Fittings & Ball Cups), 171-189 Pratt, Buffalo, N. Y.
Forsyth Mfg. Co. (Chain Guards, Coaster Brake, etc.), Buffalo, N. Y.
Hall, Chas. E. Co. (Drop Forged), Buffalo, N. Y.
Harris & Reed Mfg. Co., Chicago, Ill.
Hunter Arms Co., Fulton, N. Y.
Hydraulic Pressed Steel Co. (Sprockets), Cleveland, O.
K. & C. Mfg. Co. (Lock Joint Wood Rims), Henniker, N. H.
Keim, John R. Mills (Inc.) (Stamping, Frame Sets, Parts, etc.), Buffalo, N. Y.
Kelly Handle Bar Co. (Handle Bars), Cleveland, O.
Liberty Cycle & Motor Co., Bridgeport, Conn.
Matthews, H. A. Mfg. Co., Seymour, Conn.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.
Parish & Bingham Co. (Sprockets), Cleveland, Ohio
Reading Saddle & Mfg. Co. (Saddles, etc.), Reading, Pa.
Scoville Mfg. Co. (Pumps, Oilers, Valves, etc.), Waterbury, Conn.
Standard Co. (Spokes & Nipples, Pedals & Toe Clips), Torrington, Conn.
Standard Steel Tube Co., Toledo, O.
Straight Mfg. Co., Buffalo, N. Y.
Troxel Mfg. Co. (Saddles, etc.), Elyria, O.
Turner Brass Works, Sycamore, Ill.
Western Automatic Machine Screw Co., Elyria, Ohio
**WORCESTER PRESSED STEEL CO.** (Fittings, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)
Worthington Co., (Bicycles & Tricycles), Elyria, Ohio

## 538—Bicycle Spoke Threaders

Blake & Johnson Co., Waterbury, Conn.
Detrick & Harvey Machine Co., Baltimore, Md.
Geometric Tool Co., New Haven, Conn.
Goodell-Pratt Co., Greenfield, Mass.
Manville Machine Co., Waterbury, Conn.

## 538a—Bicycle Wheel Truing Stands

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 539— Bidets

Dalton-Ingersoll Co., Boston, Mass.
Federal-Huber Co. ("Watrous"), 244 5th av, New York
Haines, Jones & Cadbury Co. ("Vitreo"), Phila., Pa.
Mott, J. L. Iron Works ("Cascade," "Dunbar," "Duval," "Geyser"), 118 5th av, New York
Peck Bros. & Co., New Haven, Conn.
Sanitas Mfg. Co. ("Sanitas"), Boston, Mass.

## 540—Billets (Manganese Bronze)

American Manganese Bronze Co., 99 John, New York

## 541—Billets, Blooms & Slabs (Steel)

(See also Ingots, Steel)

**ALLEGHENY STEEL CO.** (Open Hearth Billets), Farmers' Nat'l Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
American Bridge Co. (Open Hearth Billets & Blooms), Pittsburg, Pa.
**AMERICAN ROLLING MILL CO.** (Billets), Middletown, O. (See adv. index & branch offices, end of book)
American Steel Co. (Jobbers, Blooms, Billets, etc.), Pittsburg, Pa.
American Steel & Tube Co. (Sheet Slabs Only), Lorain, O.
**AMERICAN STEEL & WIRE CO.** (Bessemer Billets, Blooms & Slabs), Commercial Nat. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
American Tube & Stamping Co. (Open Hearth Billets, Blooms & Slabs, Brand "Swedoh"), Bridgeport, Conn.
Andrews Steel Co. (Open Hearth Billets, Slabs & Forging Billets), Newport, Ky.
Ashland Steel Co. (Bessemer Steel Billets & Slabs), Ashland, Ky.
Atlanta Steel Co. (Basic Open Hearth Billets), Atlanta, Ga.
Bethlehem Steel Co. (Acid & Basic Open Hearth Billets), South Bethlehem, Pa.
Cambria Steel Co. (Bessemer & Open Hearth Ingots), Johnstown, Pa.
Carbon Steel Co. (Basic Open Hearth Billets & Ingots), Pittsburg, Pa.
Carnegie Steel Co. (Open Hearth & Bessemer Billets, Blooms & Slabs; also Forging Billets & Blooms), Pittsburg, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Colonial Steel Co. (Open Hearth & Crucible Ingots), Pittsburg, Pa.
Colorado Iron & Fuel Co. (Bessemer & Open Hearth Billets & Blooms), Denver, Colo.
Crucible Steel Co. of America (Open Hearth & Bessemer Billets), Pittsburg, Pa.
Dover Forge & Iron Co. (Forging Billets & Charcoal Iron), Canal Dover, O
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Harrisburg Pipe & Pipe Bending Co. (Open Hearth Billets, Slabs, etc.), Harrisburg, Pa.
Illinois Steel Co. (Bessemer & Open Hearth Billets, Blooms & Slabs), Commercial Bank bldg., Chicago, Ill.
Inland Steel Co. (Open Hearth Billets, Blooms & Slabs), 1st Nat. Bank bldg., Chicago, Ill.
Jones & Laughlin Steel Co. (Bessemer & Open Hearth Billets, Blooms, Slabs, etc.), Pittsburg, Pa.
La Belle Iron Works (Open Hearth Billets, Blooms, etc.), Steubenville, O.
Lackawana Steel Co. (Open Hearth & Bassemer Billets, Blooms & Slabs; also Forging Billets, Blooms & Slabs), Buffalo, N. Y.
**LEAVITT, C. W. & CO. ("Billets,** etc.), 34 Church, New York. (See adv. index, end of book)
Lucknow Iron & Steel Co. (Open Hearth Billets & Charcoal Blooms), Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth Billets, Slabs, Forging Blanks, etc.), Coatesville, Pa.
Midvale Steel Co. (Open Hearth), Nicetown, Phila., Pa.
National Tube Co. (Billets, Blooms & Slabs), Pittsburg, Pa.
**National Tube Co. of Ohio** (Bessemer Billets, etc.), Lorain, O.
New York State Steel Co. (Steel, Open Hearth Steel Billets, Blooms & Slabs), Buffalo, N. Y.
**Otis Steel Co.** (Open Hearth), Cleveland, O.
**Pardee, C. Works** (Open Hearth Billets & Blooms), Perth Amboy, N. J.
**Penna. Steel Co.** (Bessemer & Open Hearth Billets, Blooms, Ingots & Slabs; also Forging Blooms & Billets, Nail Slabs & High Carbon Steel Billets; also Small & Seamless Round Tube Billets), 1421 Chestnut, Phila., Pa.
Pittsburg Steel Co. (Open Hearth Billets & Blooms), Pittsburg, Pa.
Portsmouth Steel Co. (Open Hearth, Billets & Slabs), Portsmouth, O.
Republic Iron & Steel Co. (Bessemer & Open Hearth Billets & Blooms), Youngstown, O.
**Sharon Steel Hoop Co.** (Open Hearth Steel Billets), Sharon, Pa.
Snyder, W. P. Co. (Billet & Sheet Bar Dealers), Pittsburg, Pa.
Southern Iron & Steel Co. (Open Hearth Billets, Blooms & Slabs), Birmingham, Ala.
Stewart Iron Co. (Ltd.) (Hammer Blooms Only), Sharon, Pa.
Tennessee Coal, Iron & R. R. Co. (Open Hearth Billets, Blooms & Slabs), Birmingham, Ala.
United Steel Co. (Vanadium & Basic Open Hearth Steel Billets, Blooms, Slabs & Bars)
Upson Nut Co., Cleveland, O. Canton, O.
**Vulcan Crucible Steel Co.** (Open Hearth), Aliquippa, Pa.
Washburn Wire Co. (Billets Only), Phillipsdale, R. I., & 118th & Harlem R, New York
**Wheeling Steel & Iron Co.** (Bessemer Billets, Blooms & Nail Slabs), Wheeling, W. Va.
Wood, Alan Iron & Steel Co. (Basic Open Hearth Billets, Blooms & Slabs), 1421 Chestnut, Phila., Pa.
**Youngstown Sheet & Tube Co.** (Bessemer Billets, Blooms & Slabs), Youngstown, O.

## 542—Billiard Table Beds (Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Easton, Pa.
Coulman & Westcott, Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Pennsylvania Structural Slate Co., Easton, Pa.
Scotch Hill Slate Co., Fair Haven, Vt.
Slatington Slate Co., Slatington, Pa.

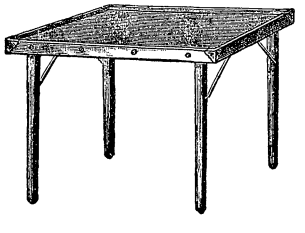
## 543—Billiard & Pool Tables (Portable, for Houses)

**BURROWES, E. T. CO., THE, 76** Free, Portland, Me. (See adv. index & branch offices, end of book)

## Binders

(See Harvesters, Various Kinds; also Subclassifications Following)

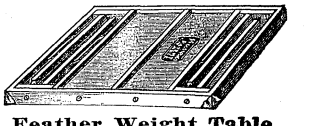

# BURROWES FOLDING TABLES



Feather Weight Table
(Open)

## CARD TABLES

Made of selected birch in various finishes, quartered oak and mahogany. Square or round top, covered with felt or green leatherette. Finish will not scratch or chalk up. High grade in every particular. Very useful in the home, in club rooms, for teas, receptions, etc. Prices $3.00 to $8.00.



Feather Weight Table
(Folded)

### BILLIARD AND POOL TABLES

Portable tables for home use. Accurate and scientific, permit expert playing. Prices $6.00 to $140.00.

### FOLDING CHAIRS

The lightest, strongest and most compact folding chairs made. Write for catalogs.

**THE E. T. BURROWES CO., PORTLAND, ME., U. S. A.**


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## 544— Binders (Core)

Federal Foundry Supply Co. ("Bright's" Dry), Cleveland, O.
Jobeson Process Co. (Made of Glutrin), Au Sable Forks, N. Y.
Sterling Oil Co., Emlenton, Pa.

## 545— Binders (Corn)

Adriance, Platt & Co. ("Adriance"), Poughkeepsie, N. Y.
International Harvester Co. of America, Chicago, Ill.
Johnston Harvester Co. ("Johnston"), Batavia, N. Y.

## 546—Binders (Lumber Load)

Goodyear, A. B. & Co. ("Goodyear"), Bloomdale, O.

## 547— Binders (Rice)

International Harvester Co. of America ("Deering" "McCormick"), Chicago, Ill.

## 548— Binding (Carpet)

Knapp Rubber Binding Co. (Rubber), 31 E. 17th, New York

## 549—Binding (Oil Cloth, Etc.)

Fletcher Mfg. Co. (Binding & Lacing), Providence, R. I.
Gould's M. Son & Co. (Metallic), Newark, N. J.
Hubbell, Ray (Metallic; also Linoleum), Northville, N. Y.
Judd, H. L. & Co. (Metallic), 87 Chambers, New York
Painesville Metallic Binding Co. (Metallic), Painesville, O.
**TURNER & SEYMOUR MFG. CO.,** (Also Linoleum), Torrington, Conn. See adv. index, end of book)

## 550— Binnacles

Bliss, Jno. & Co., 128 Front, New York
Hand, John E. & Sons ("Lord Kelvin"), 222 Walnut, Phila., Pa.
Keuffel & Esser Co., 127 Fulton, New York
Merrills. R. Sons, 66 South, New York
Negus, T. S. & J. D., 140 Water, New York
Riggs & Bro. (Compensating), 310 Market, Phila., Pa.
Thaxter, Sam'l & Son, Boston, Mass.

## 551—Binoculars, Telescopes & Marine Glasses

Bausch & Lomb Optical Co., Rochester, N. Y.
Goerz, C. P. Optical Works ("Trieder") 79 E 130th, New York
Gundlach-Manhattan Optical Co. (Prismatic Binoculars), Rochester, N. Y.
Spencer Optical Mfg. Co. ("Audemair"). 12 Maiden la, New York

## 553—Bins (Coal, Coke & Ore)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 554—Bins (Hardware, Movable)

Clark, W. J. Co., Salem, O.

## 555— Bins (Steel)

Bushnell Tank Works (Grain), Bushnell, Ill.
**CANTON BOILER & ENGINEERING** Co. (Coal, Coke & Ore), Canton, O. (See adv. index, end of book)
Davis Mfg. Co., Milwaukee, Wis.
Eagle Foundry & Machine Co. (Coal, Ore, etc.), Fort Scott, Kans.
Ervien, Chas. W. Co., Venango & G, Phila., Pa.
**JEFFREY MFG. CO. (Coal, Coke &** Ore), Columbus, O. (See adv. index & branch offices, end of book)
**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co. (Cement), Bay City, Mich. (See adv. index, end of book)
Manufacturing Equipment & Engineering Co. ("20th Century"), South Framingham, Mass.
Pennsylvania Engineering Works (Coke & Ore), New Castle, Pa.
Power & Mining Machinery Co. (Cement), Cudahy, Wis.
Prims Machinery Co., Battle Creek, Mich.
**REEVES BROS. CO. (Cement, Ore,** etc.), Alliance, O. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO. (Coal,** Coke, Ore, etc.), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Sharon Boiler Works, Sharon, Pa.
Wellman-Seaver-Morgan Co. (For Coal & Ore Storage), Cleveland, O.

## 556— Bins (Steel Factory)

**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Jefferis, Richard Co. ("Jefferis," Pressed Steel), Camden, N. J.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
Manufacturers' Equipment & Eng. Co., South Framingham, Mass.
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)

## 557— Bismuth

Hendricks Bros. (Importers & Dealers), New York
Mallinckrodt Chemical Works, St. Louis, Mo.
**MERCHANT & EVANS CO. (Inc.),** (Metal), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Merck & Co., University pl & 8th, New York
New York Quinine & Chemical Works, 114 William, New York
Pfizer, Chas. & Co., 81 Maiden la, New York
Powers-Weightman-Rosengarten Co., Phila., Pa.
Waite, Ranlet & Co., Boston, Mass.

## 558— Bisulphite of Soda

Butterworth-Judson Co., Newark, N. J.

## 559— Bit Braces

Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Chantrell Tool Co., Reading, Pa.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
Dicke Tool Co. (for Electricians, Plumbers, etc.), Downers Grove, Ill.
Forest City Bit & Tool Co., Rockford, Ill.
Fray, John S. Co. Inc. (Ratchet, Sleeve, Drill & Corner Braces), Bridgeport, Conn.
Goodell-Pratt Co. (Ratchet, Sleeve & Corner "Spofford"), Greenfield, Mass.
Lancaster Machine & Knife Works (Ratchet & Straight), Lancaster, N. Y.
Mason & Parker (Ratchet, Plain & Ball), Winchendon, Mass.
Mayhew, H. H. Co. (Also Angle Bit Braces), Shelburne Falls, Mass.
Millers Falls Co. ("Barber" & "Barker," Ratchet Corner), 28 Warren, New York; Works: Millers Falls, Mass
Peck, Stow & Wilcox Co. ("P. S. & W. Samson"), Southington, Conn.
Phoenix Hardware Mfg. Co. ("Phoenix"), Homer, N. Y.
Smith. J. Barton Co., Hope & Norris, Phila., Pa
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, end of book)
Southington Mfg. Co., Southington, Conn.
Stanley Rule & Level Co. (Carpenters'), New Britain, Conn
Stortz, Jno. & Son., 210 Vine, Phila., Pa.
Turner & Deegan, Bristol, Conn.
Wessman Tool Co., Rockford, Ill.

## 560— Bit Stock (Angular)

Bergman Tool Mfg. Co. ("Star," "Amidon," "Dumont"), Buffalo, N. Y.
Forest City Bit & Tool Co., Rockford, Ill.
Fray, John S. Co. Inc., Bridgeport, Conn.
Goodell-Pratt Co. ("Universal"), Greenfield, Mass.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Mayhew, H. H. Co., Shelbourne Falls, Mass.
Millers Falls Co. ("Universal"), 28 Warren New York; Works: Millers Falls, Mass

## 561— Bits (Auger)

Adams, A. L., Bridgeport, Conn.
Bagshaw & Field, 317 Cherry, Phila., Pa.
Chester Mfg. Co., Chester, Conn.
Connecticut Valley Mfg. Co. ("Wright's Jenning's"), Centerbrook, Conn.
Cooper, Edw. S. (Gimlets & Bits), Seymour, Conn.
Deuse, J. S. (Double Spur), Chester, Mass.
Ford Auger Bit Co. (Machine, Ship, Car, etc.), Holyoke, Mass.
Forest City Bit & Tool Co., Rockford, Ill.
Greenlee Bros. & Co., Railway Exchange bldg. Chicago, Ill.
Hardisty & Co., Station C, Cincinnati, O.
Humphreysville Mfg. Co., Seymour, Conn.
Irwin Auger Bit Co., Wilmington, O.
Jackson Mfg. Co., Jackson, O.
Jennings, C. E. & Co. (Gimlet), 42 Murray, New York
Jennings, Russell Mfg. Co., Chester, Conn.
Kraeuter & Co., Newark, N. J.
Mayhew, H. H. Co. (Gimlet), Shelburne Falls, Mass.
Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
Morrison & McCargo Co. ("Arrow"), 1215 Filbert, Phila., Pa.
New Haven Copper Co., Seymour, Conn.
Ohio Tool Co. ("Bailey"), Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Progressive Mfg. Co. ("Forstner"), Torrington, Conn.
Pugh, Job T., 3101 Ludlow, Phila., Pa.
Rockford Bit Co., Kokomo, Ind.
Russell & Erwin Mfg. Co., New Britain, Conn.
S. & I. Mfg. Co., Springfield, Mass.
Silver Mfg. Co. (Solid Center), Salem, O.
Slack, Timothy ("Slack"), Oxford, Pa.
Snell Mfg. Co. ("Snell," "Bates," "King"), Fiskdale, Mass.
Southington Mfg. Co., Southington, Conn.
Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.
Thayer Mfg. Co., Williamsburg, Mass.
Tower & Lyon Co. ("Coldwell"), 95 Chambers, New York
Wessman Tool Co. (Wood Boring), Rockford, Ill.

## Bits (Bell Hangers')

(See Drills & Bits, Electricians')

## 562— Bits (Bridle)

(See also Hardware Manufacturers, Saddlery)
American Mfg. Co. (Bits & Hdw. Specialties), Chattanooga, Tenn.
Bartley Bros. & Hall (Importers), 50 Warren, New York
Buermann, August, Newark, N. J.
Colton Mfg. Co., Montpelier, Vt.
Conn, A. H., Cedar Rapids, Ia.
Fernald Mfg. Co., North East, Pa.
Hills, Edwin, Plainville, Conn.
Imperial Bit & Snap Co. ("Berry"), Racine, Wis.
Kilborn & Bishop Co., New Haven, Conn.
Le Compte Mfg. Co., 110 Chambers, New York
Newark Bit Mfg. Co., Newark, N. J.
North & Judd Mfg. Co., New Britain, Conn.
Van Arsdale, Wm., Racine, Wis.

## 563— Bits (Car)

Connecticut Valley Mfg. Co. ("Wright's Jennings") Centerbrook, Conn.
Ford Auger Bit Co., Holyoke, Mass.
Forest City Bit & Tool Co., Rockford, Ill.
Irwin Auger Bit Co., Wilmington, O.
Jennings, Russell Mfg. Co., Chester, Conn.
Mack & Co., Rochester, N. Y.
Ohio Tool Co. ("Bailey"), Columbus, O.
Rockford Bit Co., Kokomo, Ind.
**SMITH & HEMENWAY CO. ("Red** Devil"), 150 Chambers, New York. (See adv. index, end of book)
Snell Mfg. Co., Fiskdale, Mass.
Southington Mfg. Co., Southington, Conn.
Swan, Jas. Co. ("Cook's," "Jennings'," Pattern), Seymour, Conn.
Wessman Tool Co., Rockford, Ill.

## 564— Bits (Core)

Imperial Iron Works (For Diamond Drills), Duluth, Mich.

## 565— Bits (Countersink)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Forest City Bit & Tool Co., Rockford, Ill.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.
Snell Mfg. Co., Fiskdale, Mass.
Vaughn & Bushnell Mfg. Co. ("V & B," Cast Steel), 2130 Carroll av, Chicago, Ill.
Wessman Tool Co., Rockford, Ill.

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## 565a— Bits (Diamond)

**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 566— Bits (Dowel)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Connecticut Valley Mfg. Co., Centerbrook, Conn.
Ford Auger Bit Co. ("Ford"), Holyoke, Mass.
Forest City Bit & Tool Co. (Screw Shank), etc.), Rockford, Ill.
Irwin Auger Bit Co., Wilmington, O. Conn.
Jennings, Russell Mfg. Co., Chester, Conn.
Ohio Tool Co. ("Bailey"), Columbus, O.
Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Snell Mfg. Co., Fiskdale, Mass.
Swan, Jas. Co. ("Jennings'," Pattern), Seymour, Conn.
Wessman Tool Co. (Screw Shank), Rockford, Ill.
White, L. & I. J. Co., Coopers' Machine, etc.), Buffalo, N. Y.

## 567— Bits (Drill)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## Bits (Electricians')

(See Drills & Bits, Electricians')

## 568— Bits (Expansive)

Barrett Machine Tool Co., Meadville, Pa.
Brown, R. H. & Co. ("Clark's"), New Haven, Conn.
Conn. Valley Mfg. Co. (Clark"), Centerbrook, Conn.
Fray, John S. Co. (Inc.), Bridgeport, Conn.
Jennings, C. E. & Co., 42 Murray, New York
Kilborn & Bishop Co., New Haven, Conn.
Lord, L. L. Co. ("Lord"), Meadville, Pa.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Millers Falls Co. ("Barber"), 28 Warren, New York: Works: Millers Falls, Mass.
Peck, Stow & Wilcox Co. ("Ford's" Patent), Southington, Conn.
S. & I. Mfg. Co., Springfield, Mass.
**SMITH & HEMENWAY CO. ("Red** Devil), 150 Chambers, New York. (See adv. index, end of book)
Southington Mfg. Co., Southington, Conn.
Stanley Rule & Level Co. ("Foss" Patent), New Britain, Conn.
Swan, James Co. ("Clark's," "Swan's"), Seymour, Conn.

## 569— Bits (Gimlet)

Bradshaw & Field, 317 Cherry, Phila., Pa.
Connecticut Valley Mfg. Co., Centerbrook, Conn.
Cooper, Edw S., Seymour, Conn. Conn.
Deuse, J. S. (German, Double Cut Bits & Gimlets, Bell Hangers, etc.), Chester, Conn.
Elmore Tool Mfg. Co., Hartford. Conn.
Goodell-Pratt Co., Greenfield, Mass.
Jennings, C. E. & Co., 42 Murray, New York; Works: Chester. Conn.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Snell Mfg. Co., Fiskdale, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swan, Jas. Co. (German), Seymour, Conn.

## 570— Bits (Hollow Chisel)

Forest City Bit & Tool Co., Rockford, Ill.
Greenlee Bros. Co., 225 W 12th, Chicago, Ill.
Irwin Auger Bit Co., Wilmington, O.
Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
Wessman Tool Co., Rockford, Ill.

## Bits (Horse)

(See Bits, Bridle; also Hardware Manufacturers, Saddlery)

## 571— Bits (Hub Boring)

Detroit Twist Drill Co., Detroit, Mich.
Forest City Bit & Tool Co., Rockford, Ill.
Irwin Auger Bit Co., Wilmington, O.
National Twist Drill & Tool Co., ("National"), Detroit, Mich.
Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
Snell Mfg. Co., Fiskdale, Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Wessman Tool Co., Rockford, Ill.

## 572— Bits (Machine)

Cincinnati Tool Co. ("Hargrave"), Norwood, Cincinnati, O.
**CLEVELAND TWIST DRILL CO.** Lakeside av. & 49th, Cleveland, O. ( See adv. index. end of book)
**DETROIT TWIST DRILL CO.** (Straight Shank, etc.), Detroit, Mich. (See adv. index, end of book)
Forest City Bit & Tool Co. ("Forest City," Wood Boring). Rockford, Ill.
Ford Auger Bit Co., Holyoke, Mass.
Greenlee Bros & Co., Railway Exchange bldg.
Hardisty & Co., Cincinnati, O. Chicago, Ill
Irwin Auger Bit Co., Wilmington, O.
Jackson Mfg. Co., Jackson, O.
Jenning, C. E. & Co., 42 Murray, New York
Jennings, Russell Mfg. Co., Chester, Conn.
Lincoln-Williams Twist Drill Co., Taunton Mass.
Mayhew, H. H. Co., Shelbourne Falls, Mass.
New Process Twist Drill Co., Taunton, Mass.
Ohio Tool Co. ("Bailey"), Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Progressive Mfg. Co. ("Forstner"), Torrington. Conn.
Pugh, Job T., 2100 Ludlow, Phila., Pa.
Rockford Bit Co., Kokomo, Ind.
Sandusky Tool Co., Sandusky, O.
Silver Mfg. Co. (Round Lip & Solid Center), Salem, O.
Snell Mfg. Co., Fiskdale, Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swan, James Co., Seymour, Conn.
Union Twist Drill Co. (Taper Length, "Morse" Taper Shanks), Athol, Mass.
Wessman Tool Co. ("Hardesty"), Rockford, Ill.
**WHITMAN & BARNES MFG. CO.** ("Prentice"), Akron, O. (See adv. index & branch offices, end of book)

## 573— Bits (Machine Center)

Forest City Bit & Tool Co., Rockford, Ill.
Wessman Tool Co., Rockford, Ill.

## 574— Bits (Machine Counterbore)

Forest City Bit & Tool Co., Rockford, Ill.
Wessman Tool Co., Rockford, Ill.

## 575— Bits (Matcher)

Chattanooga Saw Works, Chattanooga, Tenn.

## 576— Bits (Mining Machine)

Buettner & Shelbourne Machine Co., Terra Haute, Ind.
Fulton Tool Works ("Fulton"), Canal Fulton, Ohio
Hardsoeg, Martin Co. (Tool Steel), N S, Pittsburg, Pa.
Harris, Wm. & Son Co., N S, Pittsburg, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works, Cheswick, Pa.
What Cheer Tool Co. (Machine Chain Cutter Bits, etc.), What Cheer, Ia.

## 577— Bits (Rail Drill)

Atha Tool Co., Newark, N. J.
Buda Co., Chicago, Ill. Works: Harvey, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 578— Bits (Reamer)

Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.

## 579— Bits (Router)

Forest City Bit & Tool Co., Rockford, Ill.
Wessman Tool Co., Rockford, Ill.

## 580— Bits (Screw Driver)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Brown, R. H. & Co., New Haven, Conn.
Buck Bros., Millbury, Mass.
Buck, Chas., Millbury, Mass.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Cincinnati Tool Co., Norwood, Cincinnati, O.
Conn. Valley Mfg. Co., Centerbrook, Conn.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Deuse, J. S., Chester, Conn.
Ducharmes & Co., Shelbourne Falls, Mass.
Elmore Tool Mfg. Co., Hartford, Conn.
Ford Auger Bit Co. ("Ford"), Holyoke, Mass.
**Fray, Jno. S. Co. Inc. ("Fray's" Hollow Handle Screw Driver Sets). Bridgeport, Conn.**
Goodell-Pratt Co., Greenfield, Mass.
Humason & Beckley Mfg. Co., New Britain,
Irwin Auger Bit Co., Wilmington, O. Conn.
Jackson Mfg. Co., Jackson, O.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Kilbourne & Bishop Co., New Haven, Conn.
Kraeuter & Co., Newark, N. J.
Mayhew, H. H. Co., Shelbourne Falls, Mass.
Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
Ohio Tool Co., Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
Rinn, Albert E., Allentown, Pa.
Sayre, L. A. & Co., Newark, N. J.
S. & I. Mfg. Co. ("S. & I." Full Polished or Carbon Finished), Springfield, Mass.
Sawyer Tool Mfg. Co. ("Sampson"), Fitchburg, Mass.
Snell Mfg. Co., Fiskdale, Mass. Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Stanley Rule & Level Co., New Britain, Conn.
Stortz, John & Son, 210 Vine, Philadelphia, Pa.
Swan, Jas. Co., Seymour, Conn.
Syracuse Twist Drill Co., Syracuse, N. Y.
Tuck Mfg. Co., Brockton, Mass.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.
**WHITMAN & BARNES MFG. CO., Akron, O. (See adv. index & branch offices, end of book)**
White, L. & I. J. Co., Buffalo, N. Y.

## 580a— Bits (Sucker Rod)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 581— Bits (Tapping)

Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
Snell Mfg. Co., Fiskdale, Mass.
Swan, James Co., Seymour, Conn.

## 581a— Bits (Track Drilling)

**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## Bits (Wood Boring)

(See Bits, Machine)

## 582—Blackboard Surfacing Material

Acme White Lead & Color Works, Detroit, Mich.
American Sospstone Finish Co. ("The Potter"), Chester Depot, Vt.
Burdsal, A. Co., Indianapolis, Ind.
Caxton Co., 378 Wabash av, Chicago, Ill.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Lawrence, W. W. & Co. ("Lawrence" Slating), Pittsburg, Pa.
Lucas, Jno. & Co., 4th & Race, Phila., Pa.

## 583—Blackboards ("Compresso")

**SOLTMANN, E. G.**

(Something Every School Can Use, & the Best Artificial Blackboard in Any Size Up to 4 x 12 ft.), 134 W 29th, New York. (See adv. index, end of book)

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## 584— Blackboards (Slate)

**Allen's, S. Sons, Fair Haven, Vt.**
**American Slate Co., Easton, Pa.**
**Bangor Hardy Slate Co., Pen Argyl, Pa.**
**Bangor Slate Mining Co., Bangor, Pa.**
**Bangor Structural Slate Co., Bangor, Pa.**
**Blue Mountain Slate Co., Wind Gap, Pa.**
**Blue Valley Slate Mfg. Co., Slatington, Pa.**
**Carbon Slate Co., Slatington, Pa.**
**Columbia Slate Co., Slatington, Pa.**
**Columbus Slate Co., Columbus, O.**
Crown Slate Co., Pen Argyl, Pa.
East Bangor Consolidated Slate Co., E Bangor,
Edwards Slate Co., Granville, N. Y. Pa.
Excelsior Slate Co., Pen Argyl, Pa.
Genuine Bangor Slate Co., Easton, Pa.
Hahn, Granville, Walnutport, Pa.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Hercules Slate Co., Bangor, Pa.
Hower, J. K., Slatington, Pa.
International Slate Co., Slatington, Pa.
Johnson, E. J. Co., 36 Park row, New York
Meadow Brook Slate Co., Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Moyer, J. S. & Co., Bethlehem & Bangor, Pa.
National School Slate Co., Slatington, Pa.
Penna. Natural Slate Blackboard Co., Slatington, Pa.
Penna. Slate Co., Slatington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Peters, E. D. & Sons, Slatington, Pa.
**Phoenix Slate Co., Windgap, Pa.**
**Provident Slate Co., Slatington, Pa.**
**Sieger, Henry N. & Son, Slatington, Pa.**
**Schoonover, R. P. & Co., Bangor, Pa.**
Slatington-Bangor Slate Syndicate, Slatington,
Slatington Slate Co., Slatington, Pa. Pa.
Tinsman, M. L. & Co., Pen Argyl, Pa.

## 585— Black Diamonds

Bandler, Bernard & Son (Also Bolts for Diamond Drills & Mechanical Purposes), 65 Nassau, New York
Dessau, David & Bros. (For Diamond Drills & All Mechanical Purposes; also Bortz), 180 B'way, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 586— Black Lead

(See also Graphite Miners & Refiners)

Asbury Graphite Mills (H. M. Riddle, Prop.) Miners & Refiners), Asbury, N. J.
**DIXON, JOS. CRUCIBLE CO., Mon**mouth & Wayne, Jersey City, N. J. (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY, 101 Beekman** New York. (See adv. index, end of book)
Kelly, Thos. P. & Co., 544 W 22d, New York
Obermayer, S. Co., 647 Evans, Cincinnati, O.
Sholes, Chas. E. Co., 164 Front, New York
United States Graphite Co., Saginaw, Mich.

## 587—Black Plates for Tinning

**Alcania Company, Pittsburg, Pa. Mills, Avonmore, Pa.**
American Sheet & Tin Plate Co., Pittsburg, Pa.
Atlanta Tin Plate & Sheet Mill, Indianapolis, Ind.
**BERGER MFG. CO., THE (Iron** Sheets for Tinning), Canton, O. (See adv index & branch offices, end of book)
Canonsburg Steel & Iron Works, Canonsburg, Pa.
**Carnahan Tin Plate & Sheet Co., Canton, O.**
Colorado Fuel & Iron Co., Denver, Col.
**Follansbee Bros. Co. (Open Hearth), Pittsburg, Pa**
Griffiths Charcoal Iron Mills, Washington, Pa.
Jones & Laughlin Steel Co. (Also for Galvanizing, Enameling, etc.), Pittsburg, Pa.
Lalance & Grosjean Mfg. Co. (All Consumed by the Company), New York
McKeesport Tin Plate Co., McKeesport, Pa.
National Enameling & Stamping Co. (All Consumed by the Company), New York
Osterberg Tin Plate Co., Waynesburg, Pa.
Phillips Sheet & Tin Plate Co. (Also Long Sheets), Weirton, W. Va.
Pope Tin Plate Co., Pittsburg, Pa.
Standard Tin Plate Co., Canonsburg, Pa.
Taylor, N. & G. Co. Mariner & Merchant bldg., Phila., Pa.
Washington Tin Plate Co., Washington, Pa.
Whitaker-Glessner Co., Wheeling, W. Va.

## Blacksmiths' Supplies

(See Anvils, Bellows, Blacksmiths', etc.; Benders, Tire, etc.; Bolts, Various Kinds; Drills, Various Kinds; Forges, Various Kinds; Hammers, Various Kinds; Iron Bar Mills; Nails, Various Kinds; Nuts, Various Kinds; Presses, Various Kinds; Punches, Various Kinds; Rivets, Various Kinds; Shoes, Horse, Mule, etc.; Springs, Various Kinds; Steel Bar Mills; Taps, Various Kinds; Tools, Various Kinds; Vises, Various Kinds; Washers, Various Kinds; Wrenches, Various Kinds)
For all other Specialties see Index of Contents.

## 588— Blades (Fountain)

**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## Blades (Hack Saw)

(See Saw Blades & Frames, Hack)

## 589— Blades (Metal Fan)

**Bridgeport Brass Co., Bridgeport, Conn.**

## 590— Blades (Metal Shear)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co. (Hand & Power), Cleveland, O.
Detroit Edge Tool Works, Detroit, Mich.
Disston, Henry & Sons (Inc.), Inc., Phila., Pa.
**Hankey, A. & Co., Rochdale, Mass., & 1213** Race, Phila., Pa.
Heppenstall Forge & Knife Co., Pittsburg, Pa.
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS.** Buffalo, N. Y. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg, Pa.** (See adv. index & branch offices, end of book)
**White, L. & I. J. Co., Buffalo, N. Y.**

## 591—Blades (Shoe Cutters' Extension)

**Richard Stephen Co., Southbridge, Mass.**
**Tuck Mfg. Co., Brockton, Mass.**

## 592— Blanchers (Peanut)

(See also Peanut Machinery)

**Lambert Machine Co., Marshall, Mich.**
**McLean, Jno., Lockport, N. Y.**

## 593—Blankets (Horse & Cattle)

Ayers, Wm. & Sons, Phila., Pa.
Beckman & Co., Cleveland, O.
**Burlington Blanket Co., Burlington, Wis.**
**Candor Blanket Co., Candor, N. Y.**
Chase, L. C. & Co., Boston, Mass.
Ganster & Starr Co., 249 Market, Phila., Pa.
Hygienic Blanket Co., Hubbardston, Mass.
Louisville Girth & Blanket Mills, Louisville, Ky.
Monadnock Blanket Mills, Marlboro, N. H.
Springfield Blanket Co., Holyoke, Mass.
Troy Blanket Mills, Troy, N. H.

## 594—Blankets (Printers' & Lithographers')

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass.** (See adv. index, & branch offices, end of book)

## 595— Blanks (Caliper Gauge)

**Corbin Screw Corporation (Internal & External), New Britain, Conn.**

## 596— Blanks (Chisel)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 597— Blanks (Key)

**Bohannan, Wilson, 754 Lexington av, Brooklyn, N. Y.**
**Corbin Cabinet Lock Co., New Britain, Conn.**
**Eagle Lock Co., Terryville, Conn.**
**Graham Mfg. Co., Derby, Conn.**
New England Butt Co., Providence, R. I.
Penn Hardware Co., Reading, Pa.
Penn Iron Co. (Iron Screw), Lancaster, Pa.
Sargent & Greenleaf Co., Rochester, N. Y.
**Yale & Towne Mfg. Co., 9 Murray, New York**

## 598— Blanks (Thumb, Nut & Screw)

**Billings & Spencer Co., Hartford, Conn.**
**Keystone Drop Forge Works, Chester, Pa.**
Peninsular Milled Screw Co., Detroit, Mich.
**Penn Iron Co., Lancaster, Pa.**
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 598a—Blast Furnace Stove Shapes

**HARBISON-WALKER REFRACTOR**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 599—Blast Furnace Top Filling Apparatus

**Weimer Machine Works Co., Lebanon, Pa.**

## 600—Blast Furnace & Steel Works Construction

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa. (See adv. index, end of book)
Birmingham Boiler Works, Birmingham, Ala.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**Casey-Hedges Co., Chattanooga, Tenn.**
Colorado Iron Works Co., Denver, Colo.
**CONNERY & CO., 9th & Master,** Phila., Pa. (See adv. index, end of book)
Forter-Miller Engineering Co., Pittsburg, Pa.
Kennedy, Julian, Bessemer bldg, Pittsburg, Pa.
Kennedy, Walter (Automatic Top Filter System for Blast Furnaces), Bessemer bldg, Pittsburg, Pa.
**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ladd & Baker, Mutual Life bldg, Phila., Pa.
Lake Erie Boiler Works, Buffalo, N. Y.
**Lake Erie Engineering Works, Buffalo, N. Y.**
Lamond, David D. & Co., Pittsburg, Pa.
Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburg.
McClure, G. W. Son & Co., Pittsburg, Pa. Pa.
McKee, Arthur G., Rockefeller bldg, Cleveland, Ohio
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Mackintosh, Hemphill & Co., Pittsburg, Pa.
Meehan Boiler & Cons. Co., Lowellville, O.
Mohr, Jno. & Sons (Inc.), 349 W Illinois, Chicago, Ill.
**Munroe, R. & Sons Mfg. Co., Pittsburg, Pa.**
Naismith, George, 6312 Butler, Pittsburg, Pa.
Pennsylvania Engineering Works (Engineers & Contractors), New Castle, Pa.
**PETROLEUM IRON WORKS CO.** (Blast Furnace), Sharon, Pa. (See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts & Schaefer Co. (Consulting & Contracting Engineers), 84 Van Buren, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO., (En**gineers & Contractors), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Sharon Boiler Works, Sharon, Pa.
Smythe, S. R. CO., Pittsburg, Pa.
Swindell, Wm. & Bros., German National Bank bldg, Pittsburg, Pa.
Weimer Machine Works Co., Lebanon, Pa.
Wellman-Seaver-Morgan Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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## 601—Blast Furnace & Stove Piping Brick

**HARBISON-WALKER REFRACTORIES** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 602— Blast Furnaces

### ALABAMA.

ANNISTON—Anniston Iron Corp. (See Lynchburg, Va.

ATTALLA—Eagle Furnace Co. (Charcoal Car-Wheel Pig Iron; Brand, "Rome")

BIRMINGHAM—Alabama Consolidated Coal & Iron Co. (Foundry & Forge Pig Iron; Brands, "Clifton," "Etowah")

Birmingham Coal & Iron Co. (Soft Foundry & Gray Forge Pig Iron; Brand, "Vanderbilt")

Georgia Steel Co. (Pig Iron), Furnaces: Rising Fawn, Ga.

Shelby Iron Co. (Foundry Pig Iron; Brand, "Imperial" & Charcoal Car Wheel Pig Iron; Brand, "Shelby"), Furnaces: Shelby, Ala.

Sloss, Sheffield Steel & Iron Co. (Foundry & Forge Pig Iron; Brands, "Sheffield," "Lady Ensley," "Florence," "Sloss")

Southern Iron & Steel Co. (Foundry, Forge, **Basic, High-Silicon, High-Manganese & Grey Forge Pig Iron; Brands, "Chattanooga," "Schuler," "Rising Fawn," "Trussville")**

Tennessee Coal, Iron & Railroad Co. ("Foundry, Forge & Basic Pig Iron; Brands, "Alice," "De Bardeleben," "Eureka," "South Pittsburg," "Ensley")

Williamson Furnace Co. (Foundry Pig Iron; Brand, "Williamson")

**ENSLEY—Tennessee Coal Iron & Railroad Co. (See Birmingham, Ala.)**

**FLORENCE—Sloss, Sheffield Steel & Iron Co. (See Birmingham, Ala.)**

GADSDEN—Alabama Consolidated Coal & Iron Co. (See Birmingham, Ala.)

HOLT—Central Iron & Coal Co. (Foundry Pig Iron; Brand, "Tuscaloosa"), Office, New York City

IRONATON—Alabama Consolidated Coal & Iron Co. (See Birmingham, Ala.)

OXMOOR—Tennessee Coal, Iron & Railroad Co. (See Birmingham, Ala.)

ROCK RUN—Bass Foundry & Machine Co. Charcoal, Car-Wheel & Strong Casting Pig Iron; Brand, "Rock-Run")

SHEFFIELD—Sheffield Coal & Iron Co. (Foundry & Forge Pig Iron; Brand, "Sheffield") Sloss, Sheffield Steel & Iron Co. (See Birmingham, Ala.)

SHELBY—Shelby Iron Co. (See Birmingham, Ala.)

THOMAS—Republic Iron & Steel Co. (Bessemer. Mill & Foundry Pig Iron; Brands, "Pioneer"). Office: Pittsburg, Pa.

TRUSSVILLE—Southern Iron & Steel Co. (See Birmingham, Ala.)

WOODWARD—Woodward Iron Co. (Basic, Foundry & Forge Pig Iron; Brand, "Woodward")

### COLORADO.

DENVER—Colorado Fuel & Iron Co. (Bessemer. Basic & Foundry Pig Iron), Furnaces. Pueblo, Colo.

### CONNECTICUT.

LIME ROCK—Barnum, Richardson Co. (Charcoal Car-Wheel, Malleable Castings, Ordnance & Machinery Pig Iron; Brand, "Sallsbury")

### GEORGIA.

CEDARTOWN—Alabama & Georgia Iron Co. (Charcoal High Grade Car-Wheel Pig Iron; Brand. "Cherokee")

RISING FAWN—Georgia Steel Co. (See Birmingham, Ala.)

ROME—Deane, Thos. J. (Foundry & Forge Pig Iron: Brand: "Silver Creek")

### ILLINOIS.

CHICAGO—**AMERICAN STEEL & WIRE** Co. (Bessemer & Basic Pig Iron), Commercial Nat'l Bank bldg. (See also Cleveland, O., & Pittsburg, Pa. (See adv. index, end of book)

Federal Furnace Co. (Malleable Bessemer & Foundry Pig Iron; Brand, "Federal"), Commercial Bank bldg

Illinois Steel Co. (Bessemer, Forge, Foundry. Basic & Malleable Bessemer Pig Iron; Brands, "Bay-View," "Gertrude," "Milwaukee Scotch"), Commercial Bank bldg

Inland Steel Co. (Basic Pig Iron; Brand, "Inland"), 1st Nat. Bank bldg, Furnaces, Indiana Harbor, Ind.

International Harvester Co. of America (Bessemer Malleable Bessemer & Foundry Pig Iron; Product all Consumed by the Company)

Iroquois Iron Co. (Foundry, Malleable & High-Silicon Soft Pig Iron; Brand, "Iroquois" for Strong Iron, "Sterling Scotch" for Soft Iron; "Peerless" for High-Silicon Soft Iron; "Malleable" for Malleable Iron), 95th & Calumet River

Wisconsin Steel Co. (See International Harvester Co.)

JOLIET—Illinois Steel Co. (See Chicago, Ill.)

### INDIANA.

GARY—Illinois Steel Co. (See Chicago, Ill.)
Indiana Steel Co. (See Chicago, Ill.)

INDIANA HARBOR—Inland Steel Co. (See Chicago, Ill.)

### KENTUCKY.

ASHLAND—Ashland Iron & Mining Co. (Foundry & Forge Pig Iron; also Ferro-Silicon; Brands, "Boyd" for Foundry & "Ashland" for Ferro-Silicon)

Norton Iron Works (Inc.) (Bessemer & Malleable Bessemer Pig Iron; Brand, "Norton")

MIDDLESBOROUGH—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)

### MARYLAND.

MUIRKIRK—Coffin, Ellery F. & Co. (Charcoal Pig Iron)

SPARROWS POINT—Maryland Steel Co. (Bessemer Pig Iron & Spiegeleisen)

### MASSACHUSETTS.

CHESHIRE—Berkshire Iron Works (Charcoal Car-Wheel, Engine Cylinders, Chilled Rolls, Crusher Plates, etc.; Brand, "Berkshire")

RICHMOND FURNACE—Richmond Iron Works (Charcoal Car-Wheel & Machinery Pig Iron; Brand, "Richmond")

### MICHIGAN.

CADILLAC—Mitchell-Diggins Iron Co. (Charcoal Malleable Car-Wheel & Strong Foundry Pig Iron; Brand, "Cadillac")

DETROIT—Detroit Furnace Co. (Foundry, Malleable Bessemer, Basic & Car-Wheel Pig Iron; Brand, "Detroit")

Detroit Iron & Steel Co. (Foundry & Malleable Pig Iron; Brand, "Zug")

Lake Superior Iron & Chemical Co. (Charcoal Car Wheel Foundry & Malleable Pig Iron; Brands, "Hinkle," "Elk Rapids," "Champion," "Michigan" & "Pine Lake")

EAST JORDAN—East Jordan Furnace Co. (Charcoal Car-Wheel & Malleable Pig Iron)

FRUITPORT—Spring Lake Iron Co. (Charcoal Car-Wheel & Malleable Pig Iron; Brand, "Spring Lake")

GRAND RAPIDS—Antrim Iron Co. (Charcoal Car-Wheel & Malleable Pig Iron; Brand, "Antrim")

ISHPEMING—Cleveland-Cliffs Iron Co. (See Cleveland, O.)

NEGAUNEE — Cleveland-Cliff Iron Co. (See Cleveland, O.)

### MINNESOTA.

DULUTH—Zenith Furnace Co. (Bessemer, Malleable & Foundry Pig Iron; Brand, "Zenith")

### MISSOURI.

ST. LOUIS—St. Louis Blast Furnace Co. Basic, Car-Wheel & Foundry Pig Iron; Brands, "Missouri" for Basic & "Carondelet" for Foundry)

Sligo Furnace Co. (Charcoal Car-Wheel, Foundry & Malleable Pig Iron; Brand, "Sligo")

### NEW JERSEY.

BUTTZVILLE—Pequest Company (Foundry, Forge, Basic & High-Manganese Pig Iron; Brand, "Pequest")

ELIZABETH—Musconetcong Iron Works (Foundry, Forge & Malleable Bessemer Pig Iron; Brand, "Musconetcong") Furnaces, Stanhope, N. J.

OXFORD—Empire Steel & Iron Co. (See Catasauqua, Pa.)

SECAUCUS—Hudson Iron Co. (See New York City)

STANHOPE—Musconetcong Iron Works. (See Elizabeth, N. J.

WHARTON—Wharton Steel Co. (See Phila., Pa.

### NEW YORK.

BUFFALO—Buffalo Union Furnace Co. (Bessemer, Malleable & Foundry Pig Iron; Brand, "Buffalo")

Lackawanna Steel Co. (Bessemer Pig Iron; Brand, "Lackawanna")

New York State Steel Co. (Basic Pig Iron)

**Rogers-Brown Iron Co. (Foundry Pig Iron), Erie County B'k bldg**

Wickwire Steel Co. (Chilled Cast, Basic, Malleable & Foundry Pig)

CHARLOTTE—Genesee Furnace Co. (See Cleveland, O.)

FRANKLIN SPRINGS—Franklin Iron Mfg. Co. (Foundry Pig Iron; Brand. "Franklin")

NEW YORK—Central Iron & Coal Co. (Foundry Pig Iron; Brand, "Tuscaloosa"), 190 West; Furnaces, Holt, Ala.

Embree Iron Co. (Malleable, Foundry. Forge, Low-Phosphorus & High-Manganese Pig Iron; Brand, "Embreville"), 2 Rector; Furnaces, Embreeville, Tenn.

Hudson Iron Co. (Foundry & Forge Pig Iron; Brand, "Hudson"). 43 Cedar; Furnaces, Secaucus, N. J.

New Jersey Zinc Co. (Spiegeleisen from Zinc Residuum), 55 Wall; Furnaces, etc., South Bethlehem, Pa. & Newark, N. J.

NORTH TONAWANDA—Tonawanda Iron & Steel Co. (Foundry, Forge & Malleable Pig Iron; Brands, "Niagara," "Tonawanda Scotch")

PORT HENRY—Northern Iron Co. (Basic, Malleable, Foundry & Bessemer Pig Iron; Brand, "Essex")

**TROY—Burden Iron Co. (Forge Pig Iron for Own Use Only; Brand, "Burden")**

### OHIO.

BELLAIRE—Carnegie Steel Co. (See Pittsburg, Pa.)

CANAL DOVER—Penn Iron & Coal Co. (Strong Foundry, Bessemer & Basic Open Hearth Pig Iron; Brands, "Tuscorawas," "Black Band," "Dover")

CLEVELAND—American Steel & Wire Co. (Bessemer & Basic Pig Iron. (See also Chicago, Ill. & Pittsburg, Pa.)

Cleveland-Cliffs Iron Co. (Charcoal Car-Wheel, Foundry, Malleable & Low Phosphorus Pig Iron; Brand, "Pioneer"), Furnaces, Negaunee, Mich.

Cleveland Furnace Co. (Bessemer. Malleable Bessemer, Foundry & Basic Pig Iron; Brand. "Cleveland")

Corrigan, McKinney & Co.

Genesee Furnace Co. (Bessemer, Malleable & Gray Forge Pig Iron & Foundry Pig for Stove Plates & General Foundry use; Brand, "Genesee." Furnaces Charlotte, N. Y.

Josephine Furnace & Coke Co. (Bessemer, Foundry & Basic Pig Iron: Brand, "Josephine"). Furances. Josephine, Pa.

Pickands, Mather & Co. (Bessemer, Basic, Foundry & Malleable Pig Iron; Brands, "Ella Foundry," "Ella Malleable"), Furnaces, West Middlesex, Pa.

Scottdale Furnace Co. (Bessemer, Malleable, Forge & Foundry Pig Iron; Brand, "Scottdale"), Furnaces, Scottdale, Pa.

Struthers Furnace Co. (Basic, Forge & Malleable Pig Iron; Brand, "Struthers"), Furnaces, Struthers, O.

Toledo Furnace Co. (Bessemer, Basic, Malleable & Foundry Pig Iron; Brand, "Toledo"), Furnaces, Toledo, O.

United Iron & Steel Co. (M. Hanna & Co.) (Bessemer & Foundry Brands: "Fannie," "Fort Pitt;" Special Car-Wheel & Grey Forge Pig Iron, Brand: "Cherry Valley"), Perry Payne bldg. Furnaces: Leetonia, O., & W Middlesex, Pa.

Upson Nut Co. (Bessemer, Foundry, Forge & Malleable Pig Iron; Brand, "Upson Scotch")

COLUMBUS—Bessie Ferro-Silicon Co. (Ferro-Silicon; Brands, "Bessie," "Pencost"), Furnaces, New Straitsville, O.

Carnegie Steel Co. (See Pittsburg, Pa.)

Columbus Iron & Steel Co. (Bessemer, Basic, Malleable & Foundry Pig Iron; Brand, "Buckeye")

CULBERTSON—Bird Iron Co. (Foundry, Forge & Malleable Pig Iron; Brand, "Bird")

GIRARD—Girard Iron Co. (Bessemer, Malleable Bessemer, Foundry & Forge Pig Iron; Brand, "Girard")

HAMILTON—Hamilton Iron & Steel Co. (Foundry Pig Iron)

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HANGING ROCK—Hanging Rock Iron Co. (Foundry & Malleable Pig Iron; Brand, "Hamilton")
HUBBARD—Andrews & Hitchcock Iron Co.
IRONTON—Belfont Iron Works (Bessemer, Foundry & Forge Pig Iron; Brand, "Belfont")
Ironton Iron Co. (Malleable Bessemer & Foundry Pig Iron; Brand, "Nellie")
Kelly Nail & Iron Co. (Bessemer Pig Iron; Brand, "Sarah")
Marting Iron & Steel Co. (Bessemer, Foundry & Malleable Pig Iron; Brand, Union Furnace Co. "Nellie")
JACKSON—Globe Iron Co. (Foundry Pig Iron; Brand, "Globe;" also Ferror-Silicon)
Jackson Iron & Steel Co. (High-Silicon Pig Iron; Brand, "Jisco")
Star Furnace Co. (Soft Foundry Pig Iron; Brand, "Star," also Ferro-Silicon)
LEETONIA—McKeefrey & Co.
Salem Iron Co. (See Pittsburg, Pa.)
United Iron & Steel Co. (See Cleveland, O.)
LORAIN—National Tube Co. of Ohio (Bessemer Pig Iron)
LOWELLVILLE—Ohio Iron & Steel Co. (Bessemer, Forge & Foundry Pig Iron; Brands, "The Mary," "The Mary Ohio Scotch")
MARTINS FERRY—Wheeling Steel & Iron Co (See Wheeling, W. Va.)
MINGO JUNCTION—Carnegie Steel Co. (See Pittsburg, Pa.)
NILES—Carnegie Steel Co. (See Pittsburg, Pa.)
OLIVE FURNACE—McGugin Iron & Coal Co. (Charcoal Foundry Car-Wheel & Machinery Pig Iron; Brand, "Oline")
STEUBENVILLE—Carnegie Steel Co. (See Pittsburg, Pa.)
La Belle Iron Works (Basic & Foundry Pig Iron, all Consumed by the Company)
STRUTHERS—Struthers Furnace Co. (See Cleveland, O.)
SUPERIOR—Superior Portland Cement Co. (Charcoal Pig Iron for Cylinders, Pulleys, & all Kinds of Machinery; Brand, "Center")
TOLEDO—Toledo Furnace Co. (See Cleveland, Ohio)
WELLSTON—Wellston Steel & Iron Co. (Bessemer, Car-Wheel, Strong Foundry & Malleable Pig Iron)
YOUNGSTOWN—Andrews & Hitchcock Iron Co. (Bessemer, Gray Forge, Malleable, Bessemer & Foundry Pig Iron; Brands "Hubbard," "Hubbard Scotch" Soft Foundry, & "Climax," Strong Foundry)
Brier Hill Iron & Coal Co. (Bessemer, Basic, Strong Foundry & Malleable Bessemer Pig Iron; Brand, "Brier Hill")
Carnegie Steel Co. (See Pittsburg, Pa.)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
Youngstown Sheet & Tube Co. (Bessemer, Foundry, Malleable & Mill Pig Iron; Brand, "Alice")
Youngstown Steel Co. (Bessemer & Basic Pig Iron & Washed Metal for Steel Making)
ZANESVILLE—Carnegie Steel Co. (See Pittsburg, Pa.)

## PENNSYLVANIA.

ALBURTIS—Thomas Iron Co. (See Easton, Pa.)
ALIQUIPPA—Jones & Laughlin Steel Co. (See Pittsburg, Pa.)
ALLENTOWN—Allentown Rolling Mills. (Foundry & Grey Forge Pig Iron; Brand, "A. R. Mills")
BELLEFONTE—Bellefonte Furnace Co. (Foundry & Forge Pig Iron; Brand, "Bellefonte")
Nittany Iron Co. (Foundry & Forge Pig Iron; Brand, "Nittany")
BESSEMER—Carnegie Steel Co. (See Pittsburg, Pa.)
BIRDSBORO—Brooke, E. & G. Iron Co. (Basic Open Hearth Forged Pig Iron; Brand, "Brooke")
BRADDOCK—Carnegie Steel Co. (See Pittsburg, Pa.)
CATASAUQUA—Empire Steel & Iron Co. (Foundry, Forge, Basic Open Hearth, Bessemer & Low-Phosphorus Pig Iron; Brands, "Crane," "Crane L. P.," "Crane Basic," "Henry Clay," "Macungie," "Oxford," "Topton")
CHESTER—Delaware River Steel Co. (Forge, Foundry, Basic & Malleable; Brand: "Delaware")
CLAIRTON—Carnegie Steel Co. (See Pittsburg,
COATESVILLE—Worth Bros. Co. Pa.)
COLUMBIA — Susquehanna Iron Co. (Neutral Forge & Foundry Pig Iron; Brand, "Aurora")
DONORA—Carnegie Steel Co. (See Pittsburg, Pa.)
DUBOIS—Adrian Furnace Co. (Foundry Pig Iron; Brand, "Afrian")
DUQUESNE—Carnegie Steel Co. (See Pittsburg, Pa.)
EARLSTON—Thropp, Jos. E. (Forge, Basic & Soft & Strong Foundry & Mill Pig Iron; Brand, "Everett," "Saxton")
EASTON—Thomas Iron Co. (Foundry, Forge. Basic Open Hearth & Bessemer Pig Iron; Brand, "Thomas")
ERIE—Perry Iron Co. (Foundry, Malleable & Bessemer Pig Iron; Brand, "Perry")
ETNA—Carnegie Steel Co. (See Pittsburg.
GLEN IRON—Church, Jno. T. (Charcoal Cold-Blast Pig Iron; Brand, "Glen-Iron")
HARRISBURG—Central Iron & Steel Co. (Bessemer, Malleable Bessemer, Foundry, Mill & Basic Open Hearth Pig Iron; Brands, "Paxton," "Silver Spring")
HELLERTOWN—Thomas Iron Co. (See Easton, Pa.)
HOKENDAUQUA—Thomas Iron Co. (See Easton, Pa.)
JOHNSTOWN—Cambria Steel Co. (Bessemer & Basic Pig Iron)
JOSEPHINE—Josephine Furnace & Coke Co. (See Cleveland, O.)
KITTANNING—Kittanning Iron & Steel Mfg. Co. (Grey Forge & Foundry Pig Iron; Brand, "Rebecca")
LEBANON—Lackawanna Steel Co. (See Buffalo, N. Y.)
Lebanon Valley Iron Co. (Bessemer, Low-Phosphorus & Foundry Pig Iron; Brand, "Lebanon Valley")
Pennsylvania Steel Co. (See Phila., Pa.)
LEESPORT—Leesport Furnace Co. (Foundry & Forge Pig Iron; Brand, "Leesport")
McKEESPORT—National Tube Co. (See Pittsburg, Pa.)
MACUNGIE—Empire Steel & Iron Co. (See Catasauqua, Pa.)
MAUCH CHUNK—Carbon Iron & Steel Co. ("Carbon" Foundry Iron, "Parry" Bessemer Iron & "Viking" Low-Phosporus Pig Iron), Furnaces, Parryville, Pr.
MIDLAND—Midland Steel Co. (See Pittsburg, Pa.)
MILESBURG—McCoy-Linn Iron Co. (Charcoal Forge & Foundry Pig Iron; Brand, "Hecla")
NEW CASTLE—Carnegie Steel Co. (See Pittsburg, Pa.)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
NEWPORT—Juniata Furnace & Foundry Co. (See Phila., Pa.)
PARRYVILLE—Carbon Iron & Steel Co. (See Mauch Chunk, Pa.)
PHILADELPHIA—Heckscher, Richard & Sons Co. (Neutral Mill, Foundry, Malleable, Bessemer & Basic Open Hearth Pig Iron; Brand, "Swede"), Manhattan bldg; Furnaces, Swedeland, Pa.
Juniata Furnace & Foundry Co. (Foundry Pig Iron; Brands. "Marshall," "Juniata"), Girard av bel. Front; Furnaces, Newport, Pa.
Pennsylvania Steel Co. (Bessemer, Low-Phosphorus & Basic Pig Iron), Norris bldg.
Pulaski Iron Co. (High-Grade Foundry Pig Iron; Brand, "Pulaski"), Furnaces, Pulaski City, Va.
Wharton Steel Co. (Basic, Neutral Foundry, Malleable & Forge Pig Iron; Brand, "Wharton"), 421 Chestnut; Furnaces, Wharton, N. J.
Wister, L. & R. Co., Bullitt bldg.
PITTSBURG — **AMERICAN STEEL &** Wire Co. (Bessemer & Basic Iron). (See also Chicago, Ill., & Cleveland, O.) (See adv. index, end of book)
Byers, A. M. Co. (Bessemer, Malleable Bessemer & Forge Pig Iron), 233 Water
Carnegie Steel Co. (Bessemer, Basic, Forge. (Foundry, Mill & Low-Phosphorus Pig Iron)
Carter Iron Co. (Bessemer & Foundry Pig Iron), Furnaces, Paden City, W. Va.
Clinton Iron & Steel Co. (Bessemer, Forge & Special Car-Wheel Pig Iron, and an exceedingly Soft & Fluid Foundry Iron for Light & Fine Machinery Castings; Brands, "Hector," "Clinton")
Jones & Laughlin Steel Co. (Bessemer & Basic Open Hearth Pig Iron; Brand, "Soho;" all Consumed by the Company)
Midland Steel Co. (Bessemer, Basic & Foundry Pig Iron), Furnaces, Midland, Pa.
Republic Iron & Steel Co. (Bessemer, Mill & Foundry Pig Iron)
Riter-Conley Mfg. Co.
Salem Iron Co. (Bessemer, Malleable Bessemer, Foundry & Forge Pig Iron; Brands, "Seneca," "Allegheny," "Grafton"), Furnaces, Leetonia, Ohio
Shenango Furnace Co. (Bessemer, Basic & Malleable Pig Iron; Brand, "Shenango"), Furnaces, Sharpsville, Pa.
POTTSTOWN—Warwick Iron & Steel Co. (Foundry, Neutral Mill & Basic Pig Iron; Brand, "Warwick")
PUNXSUTAWNEY—Punxsutawney Iron Co. (Foundry & Forge Pig Iron; Brand, "Punxy")
RANKIN—Carnegie Steel Co. (See Pittsburg, Pa.)
READING—Empire Steel & Iron Co. (See Catasauqua, Pa.)
Reading Iron Co. (Foundry & Forge Pig Iron)
RIDDLESBURG—Colonial Iron Co. (Foundry & Forge Pig Iron, Specialty a Strong Soft Fluid Foundry Pig Iron; Brands, "Norway," "Colonial")
ROBESONIA—Robesonia Iron Co. (Low-Phosphorus Pig Iron; Brand, "Robesonia")
ROCKHILL FURNACE—Rockhill Furnace Co. Foundry & Forge Pig Iron; Brand, "Rockhill")
SAXTON—Thropp, Jos. E. (See Earlston, Pa.)
SCOTTDALE—Scottdale Furnace Co. (See Cleveland, O.)
SCRANTON—Temple Iron Co. (Foundry & Forge Pig Iron; Brand, "Temple")
SHARON—Carnegie Steel Co. (See Pittsburg, Pa.)
Republic Iron & Steel Co. (See Pittsburg, Pa.
Stewart Iron Co. (Bessemer, Low-Phosphorus, Foundry, Basic & Forge Pig Iron; Brand, "Stewart")
SHARPSVILLE—Claire Furnace Co. (Bessemer, Malleable & Foundry Pig Iron)
Sharpsville Furnace Co. (Bessemer & Malleable Bessemer Pig Iron; Brand, "Sharpsville")
Shenango Furnace Co. (See Pittsburg, Pa.)
Youngstown Sheet & Tube Co. (See Youngstown, O.)
SHERIDAN—Berkshire Iron Works (Foundry Pig Iron; Brand, "Sheridan")
SOUTH BETHLEHEM—Bethlehem Steel Co. Bessemer, Basic, Low-Phosphorus & Foundry Pig Iron), All Consumed by the Company
New Jersey Zinc Co. (Spiegeleisen from Zinc Residuum. (See New York City)
STEELTON—Pennsylvania Steel Co. (See Phila., Pa.
SWEDELAND—Heckscher, Richard & Sons Co. (See Phila., Pa.)
TOPTON—Empire Steel & Iron Co. (See Catasauqua, Pa.)
WEST MIDDLESEX—Pickands, Mather & Co. (See Cleveland, O.)
United Iron & Steel Co. (See Cleveland, O.)

## TENNESSEE.

BEAR SPRING—Dover Iron Co. (Charcoal Low-Phosphorus Pig Iron, for Chilled Rolls, etc.; Brand. "Dover")
BRISTOL—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
CHATTANOOGA—Citico Furnace Co. (Forge & Foundry Pig Iron; Brand,. "Citico")
CLARKSVILLE—Red River Furnace Co. (Foundry, High-Silicon & Tennessee-Scotch Pig Iron; Brands, "Helen," "Red River")
DAYTON—Dayton Coal & Iron Co. (Foundry & Forge Pig Iron; Brand, "Dayton")
EMBREEVILLE—Embree Iron Co. (See New York City.
JOHNSON CITY—Cranberry Furnace Co. (Low-Phosphorus Pig Iron; Brand, "Cranberry")
LA FOLLETTE—La Follette Coal, Iron & Railway Co. (Foundry & Forge Pig Iron; Brand, "La Follette Foundry")
NAPIER—Napier Iron Works. (See Nashville, Tenn.)
NASHVILLE—Napier Iron Works (Foundry Pig Iron; Brand, "Napier"), Furnaces, Napier, Tenn.
Standard Iron Co. (Foundry & Soft Pig Iron; Brand, "Standard"), Furnaces, Goodrich, Tenn.
ROCKDALE—Rockdale Iron Works (Ferro-Phosphorus & Foundry, Forge & Basic Pig Iron; Brand, "Rockdale")
ROCKWOOD—Roane Iron Co. (Foundry & Forge Pig Iron; Brand, "Rockwood")
SOUTH PITTSBURG—Tennessee Coal, Iron & R. R. Co. (See Birmingham, Ala.

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## TEXAS.

RUSK—State of Texas, (Owner) (Foundry & Forge Pig Iron; Brand, "Lone Star")

## VIRGINIA.

FOSTERS FALLS—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
GLEN WILTON—Princess Furnace Co. (Soft, Strong & Very Flued Foundry Pig Iron; Brand, "Princess")
GOSHEN—Goshen Iron Co. (Foundry, Basic & Forge Pig Iron; Brands, "Victoria," "Goshen")
GRAHAM—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
IVANHOE — Ivanhoe Furnace Co. (Bessemer, Foundry & Basic Pig Iron; Brand, "Ivanhoe")
LIBERTY FURNACE——Shenandoah Iron & Coal Co. (Charcoal Car-Wheel Pig Iron; Brand, "Liberty, 1812")
LONGDALE—Longdale Iron Co. (Basic Pig Iron Cast in Chills; Brand, "Longdale")
LOW MOOR—Low Moor Iron Co. (Foundry Pig Iron; Brands, "Low Moor," "Covington")
LYNCHBURG—Anniston Iron Corp. (Foundry & Forge Pig Iron; Brand, "Woodstock"), Furnaces, Anniston, Ala.
MAX MEADOWS—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
PULASKI CITY—Pulaski Iron Co. (See Phila., Pa.)
Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
RADFORD—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
REED ISLAND—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
ROANOKE—Virginia Iron, Coal & Coke Co. (Foundry, Forge, Basic & Cold Blast Charcoal. Pig Iron for Chilled Rolls, etc.; Brands, "Bristol," "Crozer." "Dora," "Graham," "Max Meadows," "Radford," "Reed Island," "Watts") West End Furnace Co. (Foundry, Basic & Forge Pig Iron; Brand, "Roanoke")

## WASHINGTON.

IRONDALE—Western Steel Corp. (See Seattle. Wash.)
SEATTLE—Western Steel Corp.; Furnaces, Irondale, Wash.

## WEST VIRGINIA.

BENWOOD National Tube Co. (See Pittsburg, Pa.)
PADEN CITY—Carter Iron Co. (See Pittsburg, Pa.
WHEELING—Wheeling Steel & Iron Co. (Bessemer & Pig Iron; Brand, "Belmont," "Martin's Ferry," "Top Mill")

## WISCONSIN.

MAYVILLE—Northwestern Iron Co. (See Milwaukee, Wis.)
MILWAUKEE—Illinois Steel Co. (See Chicago, Ill.
Northwestern Iron Co. (Bessemer, Malleable Bessemer & Foundry Pig Iron; Brands, "Snyder," "Gertrude")
Thomas Furnace Co. (Foundry, Malleable Bessemer & Standard Bessemer; Brand, "Thomas")

## 603—Blasting Fuse, Caps, Etc.

(See also Batteries, Blasting)

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
Blight's Sons & Co., Eagle River, Mich.
Ensign, Bickford & Co., Simsbury, Conn., & San Francisco, Cal.
Metallic Cap Mfg. Co., 261 B'way, New York
Rendrock Powder Co., 11 B'way, New York

## 603a— Blasts (Air)

**KEMP, C. M. CO. (Automatic), 401** E Oliver, Baltimore, Md. (See adv. index, end of book)

## 604—Bleachery Eyes (Rubber)

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index, end of book)

## 605— Blind Tenons

Gleason, E. P. Mfg. Co. ("Holts"), 37 Murray, New York

## 606— Blinds (Inside Folding)

Foster, Munger Co. (For the Trade Only), 20th & S Sangamon, Chicago, Ill.
**Hyde-Murphy Co., Ridgway, Pa.**
Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22nd & S Union, Chicago, Ill.
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis., & 1 Madison av, New York
Palmer, Fuller & Co. (For the Trade Only), 2244 Lumber, Chicago, Ill.
Radford Sash & Door Co. (For the Trade Only), 845 W 22d, Chicago, Ill.
Roach & Musser Sash & Door Co. ("Victor"), Muscatine, Iowa
Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.
Union Blind & Ladder Co. ("Hills"), Oakland, Cal.
Watson Mfg. Co., Jamestown, N. Y.
Willer Mfg. Co., Milwaukee, Wis.

## 607— Blinds (Inside Sliding)

Bossert, Louis & Son, Grand & Newtown Creek, Brooklyn, N. Y.
Burlington Venetian Blind Co., Burlington, Vt.
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Iowa
Curtis, Towle & Paine Co. (Wholesale Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
**Kane Blind & Screen Co., Kane, Pa.**
Monroe Screen, Blind & Partition Co., Lima, O
Phoenix Sliding Blind Co., Phoenix, N. Y.
Roach & Musser Sash & Door Co. ("Victor," Wholesale Mfrs.), Muscatine, Ia.
**Union Blind & Ladder Co. (Hill's), Oakland, Cal.**
Watson Mfg. Co. (Spring & Weighted), Jamestown, N. Y.
Willer Mfg. Co., Milwaukee, Wis.
Wooster Sliding Blind Co., Wooster, O.

## 608— Blinds (Rolling Window)

**Grant Pulley & Hardware Co. ("Flexifold"), 3 W 29th, New York**

## 609— Blinds (Venetian)

Adams-Monroe Mfg. Co. ("Victoria"), Lynchburg, Va.
Baltimore Blind Co. (Outside), Baltimore, Md.
Bostwick-Godell Co., Norwalk, O.
Burlington Venetian Blind Co., Burlington, Vt.
Curtis, Towle & Paine Co. (Wholesale Mfrs.), Lincoln, Neb.
**Curtis & Yale Co. (Wholesale Mfrs.), Wausau & Milwaukee, Wis., & Minneapolis, Minn**
**Dodge, H. B. & Co. (Mfrs. Ag'ts), 108 Lasalle, Chicago, Ill**
Foster, Munger & Co. ("The Pease," Wholesale Only), 20th & Sangamon, Chicago, Ill
Smith, John A. Floor Co., Los Angeles, Cal.
Union Blind & Ladder Co., Oakland, Cal.
Watson Mfg. Co., Jamestown, N. Y.
Willer Mfg. Co., Milwaukee, Wis.
**WILSON, JAMES G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)**

## 610— Blocking (Adjustable)

Le Count, Wm. G., South Norwalk, Conn.

## 611— Blocks (Broom or Brush)

Curtis & Yale Co. (Wholesale Mfrs.), Wausaw, Wis.
Holgate Bros. Co. (Whitewash Blocks, etc.), Kane, Pa.
Mahle, C. A. & Son (Bored & Shaped for Horse, Scrub, Stove, Shoe Brushes, etc., & for Street & Stable Push Brooms, also for Steel Wire Brushes, Brooms, etc.) Corry, Pa
Parkersburg Mill Co., Parkersburg, W. Va.
Peake, Henry (For Street Sweeping Brooms etc.), Peabrook, N. Y
**Petoskey Block & Mfg. Co. (Brush Blocks only all kinds, Turned & Shaped), Petoskey, Mich**
Piqua Handle & Mfg. Co., Piqua, O.

## 612— Blocks (Butchers')

(See also Butchers' Machinery & Supplies)

Boos, John & Co. (Inc.), Effingham, Ill.
Bossert, Louis & Son, Grand & Newtown Creek Brooklyn, N. Y
Dumrauf & Wicke, 406 E 102d, New York
Fayetteville Mfg. Co., Fayettville, N. Y.
Hill, C. V. & Co., Trenton, N. J.
Petoskey Block & Mfg. Co., Petoskey, Mich.

## 613— Blocks (Chain Hoisting)

(See also Hoists, Chain)

Boston & Lockport Block Co., Boston, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
**CHISHOLM & MOORE MFG. CO.,** 49th & Lake, Cleveland, O. (See adv. index, end of book)
Climax Hoist Co. ("Climax," Spear-Geared), 2227 Wood, Phila., Pa.
Dederick's P. K. Sons, Albany, N. Y.
Dicke Tool Co., Downers Grove, Ill.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Ford Chain Block Co., 135 N 2d, Phila., Pa.
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.
Irving Mfg. & Tool Co. (J. F. McCoy, Prop.), 169 Chambers, New York
Reading Chain Block Works ("Reading" Multiple Gear), Reading, Pa.
Stuebner, G. L. Iron Works, Long Island City, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

## 614— Blocks (Cutting)

**CONTINENTAL FIBRE CO. (Vulcanized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)**
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

## 614a— Blocks (Die)

Crucible Steel Co. of America, Pittsburg, Pa.
Heppenstall Forge & Knife Co. (Forged), Pittsburg, Pa.

## 615—Blocks (Differential Chain)

**CHISHOLM & MOORE MFG. CO.** (Direct Differential), 49th & Lake, Cleveland, O. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

## 616— Blocks (Dock)

**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Irving Mfg. & Tool Co., 169 Chambers, New York

## 617— Blocks (Drill)

Athol Machine Co., Athol, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 618— Blocks (Hollow Building)

(See also Blocks, Hollow Concrete Building)

Akron Vitrified Clay Mfg. Co., Akron, O.
American Brick & Tile Co., Mason City, Ia.
American Sewer Pipe Co., Akron, O.
Big Four Clay Co. (Blue Granite, Rock Face), Malvern, O.
Boone Brick Tile & Paving Co., Boone, Ia.
Canton Tile Hollow Brick Co. (Plain & Rock-Faced), New Bethlehem, Pa.
**CARTER, BLACK & AYRES (Inc.),** (Clay, Mfrs. Agts.), 1182 B'way, New York. (See adv. index, end of book)
Claymont Brick Works, New Cumberland, W. Va.
Diefenbacher, Philip, Masillon, O.
Greer-Beatty Clay Co., Magnolia, O.
Indiana Paving Brick & Block Co. (W. W. Winslow), Indianapolis, Ind., & Brazil, Ind.
Louisville Brick & Tile Co., Louisville, O.
McNutt, Lewis, Brazil, Ind.
Markley, Geo. J., Mineral City, O.
Mason City Brick & Tile Co., Mason City, Ia.
Mason City Clay Works, Mason City, Ia.
**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Penna. Fireproofing Co., Erie, Pa.
Pittsburg-Buffalo Co., Frick bldg, Pittsburg, Pa.
Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
Segner, E. C., Masillon, O.

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Sioux City Brick & Tile Works, Sioux City, Iowa
**Troy Fireproofing Co., Troy, N. Y.**
Vigo Clay Co., Terre Haute, Ind.
**Wabash Clay Co., Veedersburg, Ind.**
Whiteacre Fire Proofing Co., Waynesburg, O.

## 619— Blocks (Hollow Tile)

**MAURER, HENRY & SON, 420 E 23d,** New York; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. front inside cover)

## 620— Blocks (Hook)

**MORGAN ENGINEERING CO. (160** Tons, etc.), Alliance, O. (See adv. index & branch offices, end of book)

## 621—Blocks (Lineman's Pulley)

Burr Mfg. Co. (Steel), 2108 Superior av, N W, Cleveland, O.
Dicke, C. H. Tool Co., Downers Grove, Ill.
Ferdinand, L. W. & Co., Boston, Mass.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.

## 622— Blocks (Raggle)

Campfield Raggle Block Co., Richmond, Ind.

## 623— Blocks (Rail)

Arthur, W. H. ("Arthur" Hump), Stamford, Conn.
Mack Mfg. Co. ("Arthur," Hump), Land Title bldg, Phila., Pa.

## 624—Blocks (Sheave, for Derricks)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Patterson, W. W. Co., Pittsburg, Pa.

## 624a—Blocks (Stiff Leg Head)

**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)

## 625— Blocks (Switch)

Armstrong, Fred'k A., 348 Court, Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

## 626— Blocks (Tackle)

Boston Self-Locking Block Co. ("Walton" Self Locking), 404 Atlantic av, Boston, Mass.
Boston & Lockport Block Co., Boston, Mass.
Burr Mfg. Co. (Self Locking), Cleveland, O.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Cleveland Block Co. (Malleable Iron), Cleveland, O.
**Coleman, Walter & Sons, Providence, R. I.**
**Columbia Steel Co. ("Skookum" Triple Line Cast Steel), Portland, Ore.**
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Cottingham, John C. & Sons Co., 118 N Delaware av, Phila., Pa.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Donohue, John T. & Co., Baltimore, Md.
Edwards, H. D. & Co., Detroit, Mich.
Eureka Tackle Block Mfg. Co., Cincinnati, O.
Hartz, H. V. Co. (Steel), Cleveland, O.
**Hunt, C. W. Co., West New Brighton, S. I., N. Y.**
**Jackson, J. S. & Son ("Bath," "Roller Bearing"), Bath, Me.**
Lane Bros. Co. (Automatic Lock), Poughkeepsie,
Laughlin, Thos., Co., Portland, Me. N. Y.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
McMillan's, W. H. Sons, 153 South, New York
Merriman Bros., Boston, Mass.
Milwaukee Hay Tool Co. (Principally for Hay Tools), Milwaukee, Wis.
Pittsburg Block & Mfg. Co. ("Patterson," Wood or Steel Shell), N S, Pittsburg, Pa.
Stowell Mfg. & Fdy Co., South Milwaukee, Wis.
**Swett, A. L. Iron Works, Medina, N. Y.**
**UNION ELEVATOR & MACHINE CO.,** ("Bullock," Steel or Wood), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Union Mfg. & Lumber Co. (Wood), Northville, Mich.
Union Hardware Co., Torrington, Conn.
Vulcan Iron Works ("Bouse"), Seattle, Wash.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Western Block Co. ("Anvil," Wood, Wrought Iron & Steel), Lockport, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 627— Blocks (Wire Rope)

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
Boston & Lockport Block Co., Boston, Mass.
**BRODERICK & BASCOM ROPE CO.** (Also Manila Rope), 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
**CARLIN'S, THOS. SONS CO., Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)**
Columbia Steel Co. ("Skookum" Triple Line Cast Steel), Portland, Ore.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**Hunt, C. W. Co., West New Brighton, S. I., N. Y.**
Jackson, S. J. & Son ("Roller Bearing"), Bath, Me.
Laughlin, Thos., Co., Portland, Me.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**MACOMBER & WHYTE ROPE CO.,** 507 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)
Merriman Bros., Boston, Mass.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Block & Mfg. Co. ("Patterson"), N S, Pittsburg, Pa.
**ROEBLING'S, JOHN A. SONS CO.** Main Office: Trenton, N. J. Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Vulcan Iron Works ("Bouse"), Seattle, Wash.
Western Block Co., Lockport, N. Y.

## 628— Blocks (Wrecking)

Laughlin, Thos. Co. (With Lashing Shackles), Portland, Me.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## 629— Blocks (Yacht)

Coleman, Walter & Sons, Providence, R. I.
Laughlin, Thos. Co., Portland, Me.
Wilcox, Critenden & Co. (Brass), Middletown, Conn

## 630— Blooms (Charcoal Iron)

Coatesville Rolling Mill Co. (Product all used by the Company), Coatesville, Pa.
Dover Forge & Iron Co. (Blooms), Canal Dover, Ohio
Lucknow Iron & Steel Co. (Blooms for Boiler Plates, Sheet Iron, Wire, Tube, Skelp & Tinplates), Harrisburg, Pa.
Sizer Forge Co. (Billets, Blooms & Slabs for Boiler Tubes, etc.), Buffalo, N. Y.
Spring City Bloom Works (Billets, Blooms & Slabs for Boiler Tubes & Sheets), Real Estate Trust bldg, Phila., Pa. Works: Spring City, Pa.

## 631— Blooms (Forging)

Pittsburg Forge & Iron Co. ("Thor," Iron), Pittsburg, Pa.

## 632— Blow-Cases

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 633—Blow Pipes & Brazing Apparatus

**AMERICAN GAS FURNACE CO. (Gas),** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Baylis Company, Bloomfield, N. J.
**BERNZ, OTTO, 21 Ashland av, New-**ark, N. J. (See adv. index, end of book)
Best Light Co., Canton, O.
Bockel, Wm. & Co., 518 Vine, Phila., Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buffalo Dental Mfg. Co. (Compound Blow Pipe), Buffalo, N. Y.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Empire Blower & Pipe Co., Rochester, N. Y.
General Welding Co. (High & Low Pressure), Hoboken, N. J.
Haines & Co., 1933 W Lake, Chicago, Ill.
Hauck Mfg. Co., 140 Cedar, New York
Kiechler Mfg. Co., Cincinnati, O.
**MacLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
National Blow Pipe & Mfg. Co., New Orleans, La.
National Cement Mfg. Co., Toledo, O.
**ROCKWELL FURNACE CO. (Gas),** 26 Cortlandt, New York. (See adv. index, end of book)
Saginaw Sheet Metal Works, Saginaw, Mich.
Savannah Blow Pipe & Exhaust Co., Savannah, Ga.
**SCOTT, C. U. ("Scott," for Jeweler,** Chemist, etc.), Davenport, Ia. (See adv. index, end of book)
Shreveport Blow Pipe & Sheet Iron Works, Shreveport, La.
Stortz, Jno. & Son (Plumbers'), 210 Vine, Phila., Pa.
Turner Brass Works, Sycamore, Ill.

## 634— Blower Mfrs.

(See also Sub-classifications)

Allington & Curtis Mfg. Co., Saginaw, Mich.
American Blower Co. ("Sirocco"), Detroit, Mich.
**AMERICAN GAS FURNACE CO. (Posi-**tive Pressure), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Banister, A. W., Boston, Mass.
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
Bayley Mfg. Co., Milwaukee, Wis.
**Bicalky Fan Co., Buffalo, N. Y.**
Brewster Engineering Co., 50 Church, New York
**Buffalo Forge Co., Buffalo, N. Y.**
Canedy-Otto Mfg. Co. ("Western Chief" Power), Chicago Heights, Ill.
Champion Blower & Forge Co., Lancaster, Pa.
**Chase Turbine Mfg. Co. (Fan), Orange, Mass.**
Clarage Foundry & Mfg. Co., Kalamazoo, Mich.
**Connersville Blower Co. (Rotary), Connersville, Ind.**
**CROWELL, J. GILMER ("Crowell"** Positive Pressure), 296 Taaffe pl, Brooklyn, N. Y. (See adv. index, end of book)
**De Laval Steam Turbine Co. (Turbine Driven), Trenton, N. J.**
Dixie Mfg. Co., Baltimore, Md.
Electric Blower Co. ("Marvel"), Boston, Mass.
Exeter Machine Works, Exeter, N. H.
Fuller Co., 1565 Russell, Detroit, Mich.
Funk Machine Co. (Positive Pressure), 23 City Hall pl, New York
**Garden City Fan Co., Fisher bldg, Chicago, Ill.**
**GENERAL ELECTRI CO., Schenec-**tady, N. Y. (See adv. index & branch offices, New York)
Green Fuel Economizer Co., Matteawan, N. Y.
**Hollingsworth, Wm., Baltimore, Md.**
Howard & Morse ("Blackman" & Duplex Cone), 45 Fulton, New York
Humphrey Machine Co. (Fan), Keene, N. H.
Ilg Electric Ventilating Co., 154 Whiting, Chicago, Ill.
Indiana Fan Co. ("Indiana"), Indianapolis, Ind.
Link, E. M. Machinery Co., Erie, Pa.
**Massachusetts Fan Co., Watertown, Mass.**
Meadon Blower Pipe Works, 25 Meserole av, Brooklyn, N. Y.
Miller, J. K. Co., Seattle, Wash.
**Monarch Engineering & Mfg. Co. (Low Pressure), Baltimore, Md.**
**Monarch Steam Blower Co., Troy, N. Y.**
**National Blower Works, Milwaukee, Wis.**
New England Ventilating & Heating Co., Providence, R. I.
**New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Factory, Bucyrus, O.**
**Ohio Blower Co., 43 Michigan, Cleveland, O.**

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Pacific Blower & Heating Co., San Francisco, Cal.
Potts, David H. (Fan), Lancaster, Pa.
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Roots, P. H. & F. M. Co. (Rotary), Connersville, Ind.
Roth Bros. & Co. ("Roth"), Loomis & Adams, Chicago, Ill.
St. Louis Blower & Heater Co., St. Louis, Mo.
Standard Blower & Metal Mfg. Co., Atlanta, Ga.
Sterling Blower & Pipe Mfg. Co., Hartford, Conn.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Turbo Blower Co. ("Turbo"), 30 Church, New York
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Wilbraham-Green Blower Co. ("Green" Rotary Pressure), Pottstown, Pa.
Wing, L. J. Mfg. Co. ("Typhoon" Turbine Blower), 90 West, New York

## 635— Blowers (Acid)

Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
Titusville Iron Co., Titusville, Pa.

## Blowers (Boiler Flue)

(See Cleaners, Boiler Flue or Tube; Soot Blowers & Suckers)

## 636— Blowers (Cycloidal)

Power & Mining Machinery Co. (Horizontal), Cudahy, Wis.

## 637— Blowers (Cyclone)

Stauffer, Geo. E. (Kitson's for Burning Culm & Slack), E Stroudsburg, Pa.

## 638— Blowers (Electric)

**BEACH-RUSS CO., 55-59 Green,** Brooklyn, N. Y. (See adv. index, end of book)
Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Diehl Mfg. Co., Elizabeth, N. J.
Electric Blower Co. ("Marvel"), Boston, Mass.
Emerson Electric Co., St. Louis, Mo.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Green Fuel Economizer Co., Matteawan, N. Y.
Ilg Electric Ventilating Co., 154 Whiting, Chicago, Ill.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill; Works: Bucyrus, O
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Sprague Electric Co., 527 W 34th, New York
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## Blowers (Fan)

(See Blower Manufacturers)

## 639— Blowers (Forge)

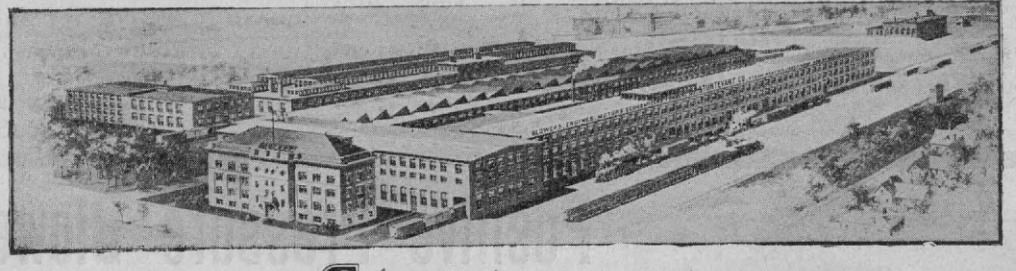
American Blower Co. ("Sirocco"), Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. ("Royal," "Western Chief"), Chicago Heights, Ill.
Champion Blower & Forge Co., Lancaster, Pa.
Champion Tool Co. ("20th Century"), Meadville, Pa.
Cleveland Steam Gauge Co. ("Watson"), 1566 Merwin, N W, Cleveland, O.
Connersville Blower Co., Connersville, Ind.
Electric Blower Co. ("Marvel" Electric), 352 Atlantic av, Boston, Mass.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
Green Fuel Economizer Co., Matteawan, N. Y.
Ilg Electric Ventilating Co., 154 Whiting, Chicago, Ill.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Roots, P. H. & F. M. Co., Connersville, Ind.
Roth Bros. & Co., 1402 W Adams, Chicago, Ill.
Star Drilling Machine Co., Akron, O.
**STURTEVANT, B. F. CO. (Electric,** etc.), Hyde Park, Mass. (See adv. index, end of book)

## 640— Blowers (Furnace)

**BEACH-RUSS CO., 55-59 Green,** Brooklyn, N. Y. (See adv. index, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Donegan & Swift (Steam, "Swift's Economy"), 6 Murray, New York
Funk Machine Co., 23 City Hall pl, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**GODFREY-KEELER CO. (Steam** Spiral), 70 Warren, New York. (See adv. index, end of book)
Monarch Steam Blower Co., Troy, N. Y.
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.
Scranton Steam Pump Co. ("Union"), Scranton, Pa.
Turbo Blower Co. ("Turbo"), 30 Church, New York


# B. F. STURTEVANT COMPANY

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(See Exhausters, Gas)

## 641– Blowers (Hand)

(See also Forges, Portable)

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Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. ("Royal"), Chicago Heights, Ill.
Champion Blower & Forge Co., Lancaster, Pa.
Comstock, Geo. S. ("Tornado" Geared Blower), Mechanicsburg, Pa.
Connersville Blower Co., Connersville, Ind.
Roots, P. H. & F. M. Co., Connersville, Ind.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## 642–Blowers (Motor Driven)

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**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MF'G. Co.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 643– Blowers (Organ)

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Organ Power Co. ("Orgoblo" or "Spencer" Silent), Hartford, Conn.

## 644–Blowers (Positive Pressure)

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**BEGGS, JAMES & CO., Liberty &** Church, New York. (See adv. index, end of book)
Clarage Foundry & Mfg. Co., Kalamazoo, Mich.
Connersville Blower Co., Connersville, Ind.
**CROWELL, J. GILMER ("Crowell"),** 296 Taaffe pl, Brooklyn, N. Y. (See adv. index, end of book)
Funk Machine Co., 23 City Hall pl, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hollingsworth, Wm., Baltimore, Md.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Roots, P. H. & F. M. Co., Connersville, Ind.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Timmis & Clissold, Boundbrook, N. J.
U. S. Gas Furnace Co., Providence, R. I.
Wilbraham-Green Blower Co. ("Green"), Pottstown, Pa.

## Blowers (Pressure)

(See Blowers, Positive Pressure; also Blowers, Rotary)

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Brewster Engineering Co. ("Brewster," Positive), 50 Church, New York
Connersville Blower Co., Connersville, Ind.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Funk Machine Co., 23 City Hall pl, New York
Garden City Fan Co., Fisher bldg, Chicago, Ill
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**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Roots, P. H. & F. M. Co., Connersville, Ind
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Wilbraham-Green Blower Co. ("Green"), Pottstown, Pa.

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(See Cleaners, Boiler Flue & Tube Soot Blowers & Suckers)

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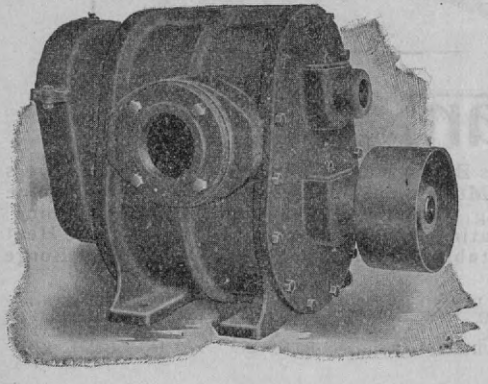
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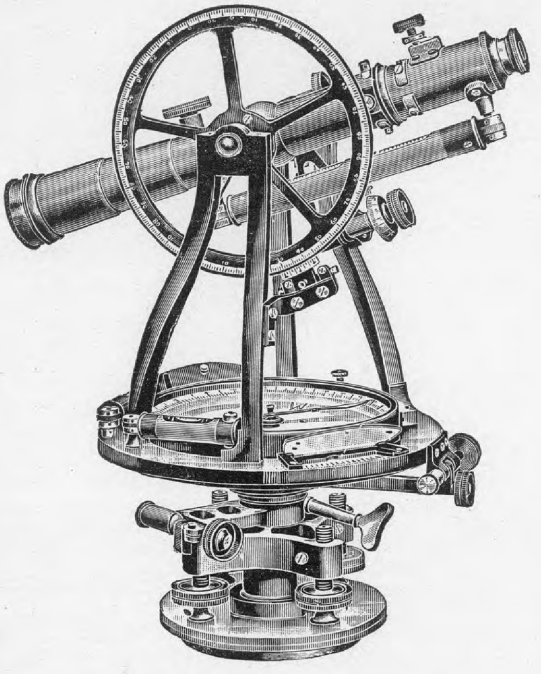
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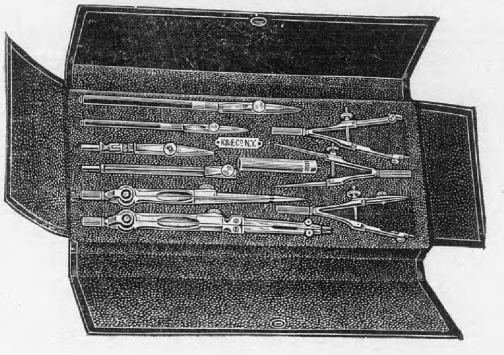
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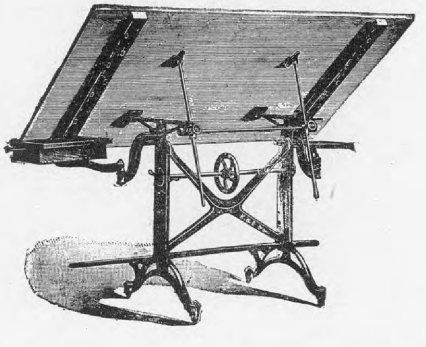
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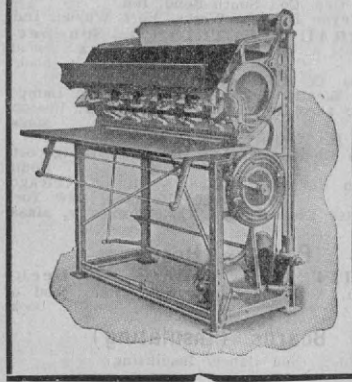
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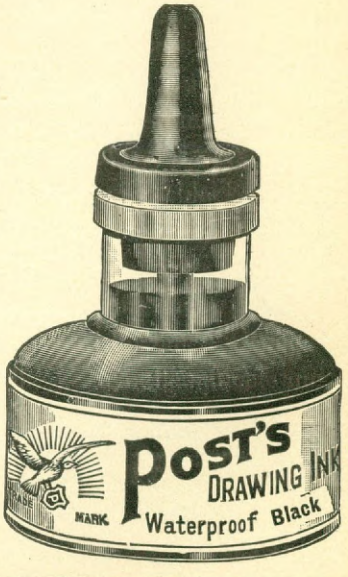
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Hendricks'
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## 671—Boards (Insulating Press)

**HEWITT, C. B. & BROS., 49 Beekman, New York.** (See adv. index, end of book)

## 672— Boards (Ironing)

Phillips, A. J. Co., Fenton, Mich.
Tibbils Mfg. Co., Rochester, N. Y.

## 673— Boards (Jute)

Anglaize Box Board Co., St. Marys, O.
Franklin Board & Paper Co., Franklin, O.
Gardner-Harvey Paper Co. (Plain or Oak Grain), Middletown, O.
Harvey Paper Co., Wellsburg, W. Va.
Hinde & Dauch Paper Co., Sandusky, O.
Lewis, James P. Co., Beaver Falls, N. Y.
Mac-Sim-Bar Paper Co., Otsego, Mich.
Marion Paper Co. (Plain or Grained), Marion, Ind.
Michigan Box Board Co., Kalamazoo, Mich.
Ohio Box Board Co., Cleveland, O.
Prairie Box Board Co. (Plain or Oak Grained), Morris, Ill.
Richardson Paper Co., Lockland, O.
Rockford Paper Box Board Co., Rockford, Ill.
Tonawanda Board & Paper Co. (Solid & Filled). Tonawanda, N. Y.
Wayne Paper Mills, Hartford City, Ind.
United Box Board Co., 200 5th av, New York

## 674— Boards (Leather)

American Paper Co., Bogota, N. J.
Bosson Mfg. Co., Middle Falls, N. Y.
Case Leather Works ("Hideite"), Hop River, Conn.
Case, Fred L. Paper Co., Andover, Conn.
Cushman & Rankin, Bath, N. H.
Davis Paper Co., Contoocook, N. H.
Endicott-Johnson Co., Lestershire, N. Y.
Foulds, Wm. & Co., Manchester, Conn.
**HEWITT, C. B. & BROS., 49 Beekman, New York.** (See adv. index, end of book)
Ingalls & Co., Castleton, N. Y.
Jenkins, Geo. O., Whitman, Mass.
Kerr Paper Mill Co., East Downington, Pa.
Lancaster Leather Co., Lancaster, O.
Lee Fibre Co., Wadleys Falls, N. H.
McKinnon Leather Board Co., Ballston Spa, N. Y.
Milton Leather Board Co., Milton, N. H.
Muir, James A., Morristown, N. J.
National Fibre Board Co., Boston, Mass.
Naubuc Paper Co., Glastonbury, Conn.
Nichols, N. J. Paper Co., South Coventry, Conn.
Passumpsic Fibre Leather Co., Passumpsic, Vt.
Pierce Bros., St. Johnsbury Center, Vt.
Quaboag Leather Co., Palmer, Mass.
Rogers Paper Mfg. Co., So. Manchester, Conn.
Sherman & Co., Belfast, Me.
Spaulding, J. & Sons Co., No. Rochester, N. H.
Stowe, J. D. & Sons, Scitico, Conn.
Victoria Paper Mills Co., Fulton, N. Y.
Wasuc Mills Co., South Glastonbury, Conn.
Westport Paper Co., Westport, Conn.

## 675— Boards (News)

**HEWITT, C. B. & BROS., 49 Beekman, New York.** (See adv. index, end of book)

## Boards (Panel, Etc.)

(See Switchboards, Light & Power)

## 676— Boards (Pattern)

(See also Boards, Binders')

Boehme & Rauch Co. (Paper Board), Monroe, Mich.
**HEWITT, C. B. & BROS. ("A. B. C."), 49 Beekman, New York.** (See adv. index, end of book)
Monroe Binder Board Co., Monroe, Mich.

## 677— Boards (Shoveling)

Beggs Wagon Co. ("Acme"), Kansas City, Mo.
Bristol & Gale Co. ("Lakeside"), Chicago, Ill.
Burch Plow Works, Crestline, O.
Clippinger, A. B. & Son Co. ("A. B. C."), Kansas City, Kan.
Cooper, A. A. Wagon & Buggy Co., Dubuque, Ia.
**Dain Mfg. Co., Ottumwa, Ia.**
Fleming & Sons Mfg. Co., Huntsville, Mo.
Hayes Pump & Planter Co. ("B. B.," "Boss," "Perkins," "Ruby"), Galva, Ill.
Hunt, Helm Ferris & Co. ("Star"), Harvard, Ill.
Kingman Plow Co. ("New Dandy," "New Victor"), Peoria, Ill.
Klondike Incubator Co. ("Wilde"), Des Moines, Ia.
Knapheide Wagon Co. ("Korn King"), Quincy, Ill.
Litchfield Mfg. Co. ("Grain King"), Waterloo, Ia.
Mandt Wagon Co., Stoughton, Wis.
Model Mfg. Co., Muncie, Ind.
Nagley Mfg. Co. ("The Sampson"), Lyons, N. Y.
Pekin Wagon Co. ("Climax," "Lansing," "Nebraska," "Pekin," "Rex"), Pekin, Ill.
Peoria Drill & Seeder Co. ("Big Four," "Great Northern," "H. & A.," "It's a Corker," "Luthe," "Midland," "O-K," "Valley City"), Peoria, Ill.
Sioux Falls Plow Co., Sioux Falls, S. Dak.
Standard Mfg. Co., Council Bluffs, Ia.
Stoughton Wagon Co., Stoughton, Wis.
Sturgis, W. B. & Son ("New Western"), Shelbyville, Ill.
True Mfg. Co. ("New Western"), Eaton Rapids, Mich.

## 678— Boards (Sounding)

Breckewoldt, J. & Co., Dolgeville, N. Y.

## 679— Boards (Tar)

**HEWITT, C. B. & BROS., 49 Beekman, New York.** (See adv. index, end of book)
Knerr Board & Paper Co., Cincinnati, O.

## Boards (Templet)

(See Boards, Pattern)

## 680— Boards (Trunk)

**HEWITT, C. B. & BROS., 49 Beekman, New York.** (See adv. index, end of book)

## 681— Boats (Collapsible)

Lane & De Groot Co., Long Island City, N. Y.

## 682—Boats (Knocked-Down)

**Neumeister, Fred P., Rockford, Ill.**
**Niagara Motor Boat Co., North Tonawanda, N. Y.**
**Pioneer Boat & Pattern Co., Bay City, Mich.**
St. Louis Boat & Engine Co., St. Louis, Mo.
Supple, Joseph, Portland, Ore.

## 683— Boats (Life)

American Ship Building Co., Cleveland, O.
**Armstrong Cork Co., Pittsburg, Pa.**
**Burlee Dry Dock Co., Port Richmond, N. Y.**
**Detroit Shipbuilding Co. ("Kirby" Metallic), Brass Dept., Detroit, Mich.**
**Lane & De Groot Co. (Metallic Self-Bailing & Self-Righting Collapsible; also Wood Boats),** Long Island City, N. Y.
Mayo Life Boat Co. (Unsinkable), Erie, Pa.
**Rossiter, Chas S. & Co. (Metallic), 509 E Montgomery, Baltimore, Md.**

## Boats (Motor)

(See Motor Boat, Launch & Yacht Builders)

## 684— Boats (Steel)

(See also Motor Boat, Launch & Yacht Builders)

**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O., & 81 Fulton New York.** (See adv. index, end of book)
**Lane & De Groot Co.** (Also Wooden Boats), Long Island City, N. Y.
**Michigan Steel Boat Co., Detroit, Mich.**
**MULLINS, W. H. CO.** (Boats, Launches, etc.), Salem, O. (See adv. index, end of book)

## 685—Bodies (Automobile, Metal)

**Cole & Woop, 48 W 67th, New York**
**Columbia Steel Co., Elyria, O.**
**Detroit Motor Car Supply Co., 1250 Jefferson av, Detroit, Mich.**
**Hayes Mfg. Co., Detroit, Mich.**
**Keystone Vehicle Co., Reading, Pa.**
**Koen, James R., 1257 Niagara, Buffalo, N. Y.**
**Lawrence, L. & Co. (Aluminum), 292 Halsey, Newark, N. J.**
**Leitch, J. N. Co., Amesbury, Mass.**
**Michigan Steel Boat Co. (Steel), Detroit, Mich.**
**MULLINS, W. H. CO., 341 Franklin, Salem, O.** (See adv. index, end of book)
Quinby, J. M. & Co. (Aluminum), Newark, N. J.
Reading Metal Body Co., Fleetwood, Pa.
Springfield Metal Body Co., 374 Birnie av, (Brightwood), Springfield, Mass.
U. S. Aluminum Co. (Aluminum), Pittsburg, Pa.
Wood, A. M. Co., 51 Beverly, Boston, Mass.

## 686—Bodies (Automobile, Wood)

**Abresch, Chas. Co., 392 4th, Milwaukee, Wis.**
**American Veneer Co. (Laminated), Kenilworth, N. J.**
**Automobile Body Co., Lansing, Mich.**
Beaudett, O. J. Co., Pontiac, Mich.
Biddle & Smart Co., Amesbursy, Mass.
**Biehl's Carriage Works, Reading, Pa.**
**Borbein Auto Co., 2108 N 9th, St. Louis, Mo.**
**Borchers Carriage Co., 18 S St. Clair, Dayton, O.**
**Briggs Carriage Co., Amesbury, Mass.**
**Buckeye Carriage Body Co., Bellefontaine, O.**
**Central Mfg. Co., Connersville, Ind.**
**Cincinnati Panel Co., c 8th & C. H. & D. R'y, Cincinnati, O.**
Clark Carriage Co., Amesbury, Mass.
**Cole & Woop, 48 W 67th, New York**
Collins, G. A. & Son, Akron, O.
**Currier-Cameron Co., Amesbury, Mass.**
**Dann Bros. & Co., New Haven, Conn.**
**Des Moines Cabinet Co., Des Moines, Ia.**
**Detroit Carriage Co., Clay & St. Aubin avs, Detroit, Mich.**
**Detroit Motor Car Supply Co., 1250 Jefferson av, Detroit, Mich.**
Fisher Body Co., Detroit, Mich.
Flint Body Co., Flint, Mich.
**Frantz Body Mfg. Co., Akron, O.**
**Holcomb Co. (Inc.), New Haven, Conn.**
Hollander & Morrill, Amesbury, Mass.
**Howarth & Rogers Co., Amesbury, Mass.**
**Keystone Wagon Works Co., Reading, Pa.**
King Spring Co., Buffalo, N. Y.
**Koen, James R., 1257 Niagara, Buffalo, N. Y.**
**Leitch, J. N. Co., Amesbury, Mass.**
**Limousine Carriage & Mfg. Co., 3515 Michigan av, Chicago, Ill.**
**Michigan Steel Boat Co., 1250 Jefferson av, Detroit, Mich.**
**Moore-Munger Co., 602 W 52d, New York**
Neustadt Automobile & Supply Co., 3950 Olive, St. Louis, Mo.
**New Haven Carriage Co., New Haven, Conn.**
**Schubert Bros. Gear Co., Oneida, N. Y.**
**Shepard, H. G. & Sons, New Haven, Conn.**
**Shields Carriage Co., Amesbury, Mass.**
Troy Mfg. Co., Troy, O.
Union City Body Co., Union City, Ind.
**Willoughby Co., Utica, N. Y.**
**Wilson, C. R. Body Co., Milwaukee Junction, Detroit, Mich.**
**Wood, A. M. Co., 51 Beverly, Boston, Mass.**
**York Wagon Gear Co., Belvidere c P. R. R., York, Pa.**

## Boiler Arches

(See Brick, Boiler Arch & Setting)

## 687— Boiler Brace Mfrs.

**American Iron & Steel Mfg. Co.** (Wrought Iron), **Lebanon & Reading, Pa.**
Castle, A. M. & Co., 217 N Jefferson, Chicago, Ill.
**Central Iron & Steel Co., Harrisburg, Pa.**
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Lukens Iron & Steel Co., Coatesville, Pa.
**RYERSON, JOS. T. & SON ("McGregor"), 2558 W 16th, Chicago, Ill.** (See adv. index & branch offices, end of book)
Scully Steel & Iron Co. ("McGregor"), Chicago, Ill.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
Ulster Iron Works, Dover, N. J.

## Boiler Cleaners

(See Cleaners, Boiler Flue & Tube)

## 688— Boiler Compounds

**Amazon Chemical Mfg. Co. ("Amazon" Vegetable), Manistee, Mich.**
**American-German Boiler Compound Co., 145 La Salle, Chicago, Ill.**
American Oil & Lubricant Works ("Brown"), Rochester, N. Y.
American Supply Co., Pittsburg, Pa.
Anti-Selenite Co. ("Anti-Selenite"), 2230 Olive, St. Louis, Mo.
**Arlington Mfg. Co. ("Arlington" Vegetable), Canton, O.**
**Arrow Boiler Compound Co. ("Arrow"), 408 Olive, St. Louis, Mo.**
Atlantic Refining Co., Cleveland, O.
**Atlas Preservative Co. of America ("Atlas"),** 95 Liberty, New York
**Barnum Bros. Co. ("Electric"), Troy, N. Y.**
**Bauchelle Mfg. Co., 159 W 24th, New York**
**Belden, A. G. ("Gambier"), 145 Maiden la, New York**
Beltine Chemical & Mfg. Co., 401 N Sangaman, Chicago, Ill.

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Binghamton Boiler Compound Co. ("Pyramid"), Binghamton, N. Y.
Bird-Archer Co. ("Bird-Archer," "Manhattan," "Boogher"), 90 West, New York
Black Bear Co., 80 Pine, New York
Booth, Hubert ("McJilton's"), 181 Atlantic ave., Brooklyn, N. Y.
Buffalo Compound Co., Buffalo, N. Y.
British-American Chemical Co. ("Brisam"), Paterson, N. J.
Buckeye Chemical Co., Chamber of Commerce, Detroit, Mich.
Canton Paint & Varnish Co., Canton, O.
Champion Oil Co., W 39th & Lowe av, Chicago, Ill.
Cherry Chemical Co. ("Red Seal"), 1018 Callowhill, Phila., Pa.
Chesterton, A. W. & Co. ("Challenge"), 64 India, Boston, Mass.
Cleveland Mfg. & Supply Co. ("Cleveland"), Cleveland, O.
Continental Chemical Co. ("C. C. C."), 119 S 4th, Phila., Pa.
Coralline Drug & Chemical Co. ("Coralline"), 465 Greenwich, New York
Corliss Chemical Co., 409 S 12th, St. Louis, Mo.
Cortland Specialty Co. ("Banner"), Cortland, N. Y.
Crawford, Clay, 845 W Woodruff av, Toledo, O.
Crescent Oil & Supply Co., St. Louis, Mo.
Dayton Boiler Compound Co. ("Miami Valley"), Dayton, O.
Dearborn Drug & Chemical Works, McCormick bldg, Chicago, Ill.
Diana Oil Co. ("Benton's"), Cleveland, O.
DuMond, Wm. R. ("Solventine"), 39 South, New York
Eagle Oil & Supply Co. (U. S. Standard), 104 Broad, Boston, Mass.
Economy Boiler Compound Co., Flatiron bldg, New York
Economy Oil & Compound Co., 442 Clark, Chicago, Ill.
Edgecumbe, J. C. & Co. ("Trio"), 100 William, New York
Eureka Chemical Co., 204 N Commercial, St. Louis, Mo.
Gallaway, G. W. ("Heichstadter's"), 322 Pearl, New York
Gast, F. J. ("Compo."), 80 John, New York
Gilbert Compound Co., Mutual Life bldg., Buffalo, N. Y.
Globe Boiler Compound Co. ("Case"), Binghamton, N. Y.
Grasselli Chemical Co. (Tri-Sodium Phosphate), Cleveland, O.
Great Lakes Chemical Co. ("Block"), Appleton, Wis.
Griffiths, A. J. & Sons, 229 S Front, Phila., Pa.
Griggs, Jos. E., Indianapolis, Ind.
Hallsall, Geo., Jamestown, N. Y.
Harlem Supply Co. ("American"), 414 N Front, Baltimore, Md.
Harris, A. W. Oil Co. ("Harris"), Providence, R. I.
Hawk-Eye Compound Co., 357 W 63d, Chicago, Ill.
Hayner, Norman C. Co., 16 S Washington, Rochester, N. Y.
Howard Chemical Co. ("Scale-Off"), 63 Fulton, New York
Illinois Boiler Cleaning Compound Co., 1336 La Salle av, Chicago, Ill.
Imperial Chemical Co., 514 N American, Phila., Pa.
Indianapolis Boiler Compound Co. ("Peerless" Water Breaker), Indianapolis, Ind.
Indianapolis Chemical Co. ("Acme," "Star"), Indianapolis, Ind.
International Boiler Cleaning Co. ("Scaline"), 423 East, Baltimore, Md.
International Boiler Compound Co., 144 W Michigan, Chicago, Ill.
Ironsides Co. ("Ironsides" Scale Solvent Shield), Columbus, O.
Jewell Engineering Co. ("Jewell," Tablet Method), Monadnock blk, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Johnson Compound & Supply Co. ("Sumac"), Rochester, N. Y.
Keasbey & Mattison Co., Ambler, Pa.
Kentucky Consumers' Oil Co., Louisville, Ky.
Kenzel, Jno. S., 457 Pearl, New York
Keystone Chemical Mfg. Co. ("Keystone," Tri-Sodum Phosphate), Penna. bldg, Phila., Pa.
Keystone Lubricating Co., Phila., Pa.
King Refining Co., San Francisco, Cal
Kohlbrand, H. & Co. ("Anchor"), 221 E Pearl, Cincinnati, O.
Kuhne-Libby Co. ("Marvel"), 60 Water, New York
Lake Erie Boiler Compound Co. ("Red Star"), Buffalo, N. Y.
Lord, Geo. W. Co., 2238 N 9th, Phila., Pa.
Lord, Henry W. ("Lord's"), 7 S Greene, Baltimore, Md.
Lubricating Metal Co., Jersey City, N. J.
Lynch-Clarisey Co., 3652 Archer av, Chicago,
Lynch, Wm., 103 Furman, Brooklyn, N. Y. Ill.
Magnolia Boiler Compound Co. ("Magnolia"), Cincinnati, O.
Metropolitan Steam Boiler Compound Co., 26 Court, Brooklyn, N. Y.
Michigan Sugar Co., Saginaw, Mich.
Minnesota Boiler Compound Co., Bradley bldg, St. Paul, Minn.
Mohawk Refining Co. ("Mohawk"), 1187 W 11th, N W, Cleveland, O.
Moore Vegetable Boiler Purger Co., 21 Jefferson, Detroit, Mich.
National Mill Supply Co. ("Star"), Fort Wayne, Ind.
Nebraska Boiler Compound Co., Omaha, Neb.
**NEW ERA MFG. CO. ("New Era"** Soluble Metal), Kalamazoo, Mich. (See adv. index, end of book)
Northern Chemical Co. ("Solventine", Cleaner & Purifier), Cleveland, O.
Northrop Lubricating Oil Co. ("Famous"), 308 N Commercial, St. Louis, Mo.
Nuhring, Chas. & Bro. ("Victor," "Success"), 907 Walnut, Cincinnati, O.
O'Neil Oil & Paint Co. ("O'Neils"), 297 E Water, Milwaukee, Wis
Osgood Mfg. Co. ("Favorite"), 404 Randolph, Chicago, Ill.
Parsons, J. H. Chemical Co. ("A. B. C." Alkali), 55 State, Chicago, Ill.
Patapsco Oil & Grease Co. ("Perfection"), 109 Cheapside, Baltimore, Md
Penn Boiler Compound Co., 242 N Del av, Phila, Pa.
Preservaline Co., 854 Lorimer, Brooklyn, N. Y.
Read, Edward B., San Francisco Cal.
Reliance Oil & Greese Co., 50 South, New York
Rhodes, Irwin G., 113 N 3d, Phila., Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Scribner Boiler Compound Co., 319 N Wood, Chicago, Ill.
Smith, H. Bentley Co. ("Hibis"), 1225 Arch, Phila., Pa.
Smith, Kline & French Co. ("McNelly's" American), 435 Arch, Phila., Pa.
Star Lubricating Co., 232 W 28th, New York
Star Lubricating Oil Co. ("Excelsior"), 8408 Kinsman rd, S E, Cleveland, O.
Star Oil Co. ("Acme"), 700 S Desplaines, Chicago, Ill.
State Mfg. Co. ("Melta Cotta"), Cleveland, O.
Stephenson Mfg. Co. ("Stephenson"), Albany, N. Y.
Straus Boilerine Co. ("Boilerine"), 40 West, New York
Streett, J. D. & Co. ("Lightning"), 809 N 2d, St. Louis, Mo.
Stuart, D. A. & Co., 447 Illinois, Chicago, Ill.
Sullivan Oil Co., 413 Wells, Chicago, Ill.
Superior Chemical & Engineering Co., Marquette bldg, Chicago, Ill.
Sur-Coat Mfg. Co., Detroit, Mich.
Thompson, Walter M., Cincinnati, O.
Thomsen Chemical Co. ("Bosalt"), Baltimore, Md.
Union Chemical & Drug Co., Cincinnati, O.
U. S. Chemical Co., Wade bldg, Cleveland, O.
Wadhams Oil Co. ("Eureka"), 215 National av, Milwaukee, Wis.
Walsh, John F. ("U. S. Scalesolvent"), 25 W Lake, Chicago, Ill.
Warley, Thos. C. & Co., 221 S Front, Phila., Pa.
Warner Chemical Co., 141 B'way, New York. Factory: Carteret, N. J.
Warren & Bailey Mfg. Co. ("Acme"), Los Angeles, Cal.
Western Boiler Compound & Chemical Co., Kansas City, Mo.
Wilson & Roake, 261 Front, New York
Winn, Wm. R. ("Winn"), 143 Maiden lane, New York
Zephon Chemical Compound Co., 77 Jackson boul, Chicago, Ill.
Zurn, O. F. Co. ("Peerless"), Broad & Lehigh av, Phila., Pa.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## Boiler Dealers

(See Machinery Dealers)

## 689—Boiler Flue Holes & Manholes (Flanged)

Central Iron & Steel Co. (Open Hearth Flanged), Harrisburg, Pa.
Glasgow Iron Co. (Pressed Open Hearth Steel), Pottstown, Pa.
Lukens Iron & Steel Co. Open Hearth Steel), Coatesville, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scully Steel & Iron Co., Chicago, Ill.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
Worth Bros. Co. (Open Hearth Steel), Coatesville, Pa.

## Boiler Flue & Tube Cleaners

(See Cleaners, Boiler Flue & Tube)

## 690—Boiler Fronts & Castings

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Chickasaw Iron Works, Memphis, Tenn.
Clarage Foundry & Mfg. Co., Kalamazoo, Mich.
Coatesville Foundry & Machine Co., Coatesville, Pa.
Eddy, R. M. Foundry Co., 372 W. Indiana, Chicago, Ill.
Erie City Iron Works, Erie, Pa.
Erie Engine Works, Erie, Pa.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Frost Mfg. Co., Galesburg, Ill.
**GODFREY-KEELER CO., 70 War**ren, New York. (See adv. index, end of book)
Harrisburg Foundry & Machine Works, (Colonial Style), Harrisburg, Pa.
Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
Hartley's Boiler Works, Montgomery, Ala.
Howell, R. R. & Co., Minneapolis, Minn.
Janney & Co., Montgomery, Ala.
Keeler, E. Co., Williamsport, Pa.
Kelly Foundry & Machine Co., Goshen, Ind.
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KUTZTOWN FOUNDRY & MACHINE** Co., 116 N Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)
McNaull Boiler Mfg. Co., Toledo, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Memphis Machine Works, Memphis, Tenn.
Metropolitan Iron Foundry, 548 W 55th, New York
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Munroe, R. & Sons Mfg. Corp'n, Pittsburg, Pa.
Murray Iron Works Co., Burlington, Iowa
Niver Iron Works Co., Muscatine, Iowa
Nordyke & Marmon Co., Indianapolis, Ind.
Odlum-Taylor Boiler Co., Memphis, Tenn.
Paxton & Vierling Iron Works, Omaha, Neb.
Petty, J. K. & Co. (Lebanon Boiler Works), Philadelphia, Pa.; Works: Lebanon, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scully Steel & Iron Co., Chicago, Ill.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Thacher, Geo. H. & Co., Albany, N. Y.
Toledo Foundry & Machine Co., Toledo, O.
Valley Iron Works, Williamsport, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walsh & Weidner Boiler Co., Chattanooga, Tenn.

## 691—Boiler Heads (Flanged & Dished)

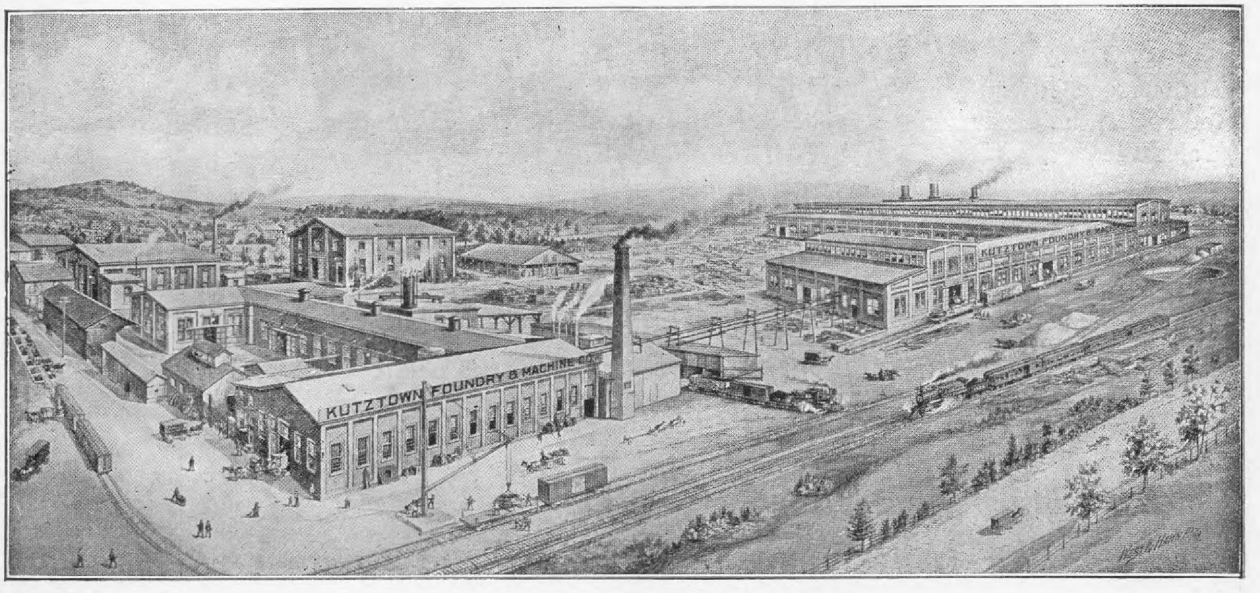
(See also Boiler Heads, Pressed Steel)

Avery Stamping Co., Cleveland, O.
Central Iron & Steel Co. (Pressed Steel), Harrisburg, Pa.
Crucible Steel Co. of America (Open Hearth Steel), Pittsburg, Pa.
Glasgow Iron Co. (Open Hearth Pressed Steel), Pottstown, Pa.
Doering, C. & Son, 1373 W Lake, Chicago, Ill.
Keeler, E. Co., Williamsport, Pa.
**KITTOE BOILER & TANK CO. (Inc.),** Canton, O. (See adv. index, end of book)

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# KUTZTOWN FOUNDRY AND MACHINE COMPANY

INCORPORATED

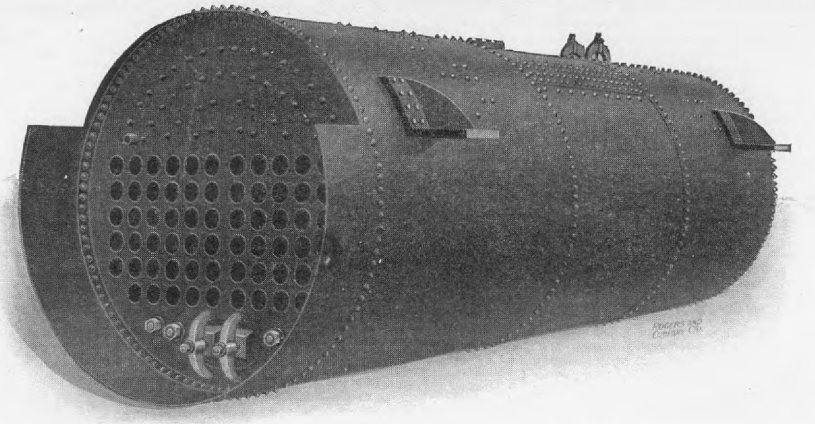



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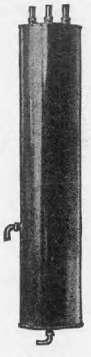


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# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

**Hendricks' Commercial Register**


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Lukens Iron & Steel Co. (Open Hearth & Crucible Steel), Coatsville, Pa.
Munroe, R. & Sons Corp., Pittsburg, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scully Steel & Iron Co., Chicago, Ill.
Standard Boiler & Plate Iron Co. (Up to 96 in. Dia.), Niles, O.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
Worth Bros. Co. (Pressed Steel), Coatsville, Pa.

## 692—Boiler Heads (Pressed Steel)

(See also Boiler Heads, Flanged & Dished)

**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**PRESSED STEEL TANK CO. (Also** Tank Heads), Milwaukee, Wis. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 693—Boiler Makers' Tools (Kitchen)

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)

## 694—Boiler Mountings (Portable)

**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)

## 695—Boiler Purifying Apparatus

**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)

## 695a—Boiler Riveting Contractors

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)

## 696—Boiler Saddles (Pressed Steel)

Castle, A. M. & Co., 217 N Jefferson, Chicago, Ill.
Central Iron & Steel Co., Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Lukens Iron & Steel Co. ("Huston" Weldless), Coatesville, Pa.
Worth Bros. Co., Coatesville, Pa.

## 697— Boiler Setting

**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E** 33d, New York. (See adv. front inside cover)

## 698—Boiler Shells (Automobile)

American Welding Co. (Seamless Welded), Carbondale, Pa.
Avery Stamping Co., Cleveland, O.
Federal Pressed Steel Co. (Cold Drawn), Milwaukee, Wis.
Hungerford, U. T. Brass & Copper Co. (Copper), 497 Pearl, New York
Janney, Steinmetz & Co. (Seamless Steel). Central Trust & Sav. bldg, Phila., Pa.
**PRESSED STEEL TANK CO.** (Seamless Steel), Milwaukee, Wis. (See adv. index, end of book)
Randolph-Clowes Co. (Copper), Waterbury, Conn.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Standard Welding Co. (Welded Steel), Cleveland, O.

## 699— Boiler Stands (Range)

Casey-Hedges Co., Chattanooga, Tenn.
Central Foundry Co. ("Murphy," "Universal" & "Lockwood"), 90 West, New York
Fleck Bros. Co. 44 N 5th, Phila., Pa.
Gregory, Thos. Galvanizing Works (Galvanized). 263 N Henry, Brooklyn, N. Y.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
**KOVEN, L. O. & BRO. (Galvanized),** 50 Cliff, New York. (See adv. index, end of book)
Kupferle, John C. Foundry Co., St. Louis, Mo.
Lawler Regulator Co. (Adjustable), 473 W B'way, New York
Modern Iron Works, Quincy, Ill.
Morrison-Kretschmer Mfg. Co. ("Morrison" Tripod), Dubuque, Iowa
**SCAIFE, WM. B. & SONS CO. (Galvan-**ized Iron), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Swett, A. L. Iron Works, Medina, N. Y.
Tip Top Specialty Co. ("Tip Top" Adjustable), North Towanda, Pa.

## 700—Boiler Washing & Testing Apparatus

Nathan Mfg. Co., 85 Liberty, New York
Rue Mfg. Co., 228 Cherry, Phila., Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 701— Boilers (Automobile)

Barton Boiler Co. ("Simplex" Flash), 2427 Calumet av, Chicago, Ill.
Bigelow Co. (Fire Tube), New Haven, Conn.
Howard Thermostat Co., Oswego, N. Y.
Janney, Steinmetz & Co. (Seamless Steel), Central Trust & Sav. bldg, Phila., Pa.
Kitts Mfg. Co. (Semi-Flash), Oswego, N. Y.
Locke Regulator Co. (Fire Tube), Salem, Mass.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Murray & Tregurtha Co. (Water Tube), Boston, Mass.
Ofeldt, August & Sons, Valley Stream, N. Y.
**PRESSED STEEL TANK CO.** (Pressed Steel), Milwaukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**Steam Carriage Boiler Co. (Also for Yachts),** Oswego, N. Y.
Throop Perforating Co. (Fire Tube), Buffalo, N.Y.
Walker, E. C. Co. (Fire Tube), New Albany, Ind.

## 701a— Boilers (Bath)

(See Boilers, Range, Galvanized Iron)

## 702— Boilers (Bleaching)

Biggs Boiler Works Co., Akron, O.
Holyoke Steam Boiler Works, Holyoke, Mass.

## 703—Boilers (Egg, Automatic)

Curtis, Espy & Co., 1602 Fulton, Chicago, Ill.

## Boilers (House Heating)

(See Heaters, Steam & Hot Water)

## 704—Boilers (Locomotive, Fire Box)

American Radiator Co., 282 Michigan av, Chicago, Ill.
**BEGGS, JAMES & CO., Liberty &** Church, New York
Brennan, Jno. & Co. (Inc.), Detroit, Mich.
Brownell Co., Dayton, O.
**CARLIN'S, THOS. SONS CO. (Also** Vertical), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Connelly, D. Boiler Co., Cleveland, O.
East St. Louis Locomotive & Machine Shop Co., East St. Louis, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co., York, Pa.
**Farrar & Trefts, Buffalo, N. Y.**
**GODFREY-KEELER CO., 70 War-**ren, New York. (See adv. index, end of book)
Herbert Boiler Co., 240 Root, Chicago, Ill.
Iowa Mfg. Co., Oskaloosa, Ia.
Keeler, E. Co., Williamsport, Pa.
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Kingsford Foundry & Machine Works, Oswego N. Y.
**KITTOE BOILER & TANK CO. (Inc.),** Canton, O. (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Nagle Engine & Boiler Works, Erie, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Power & Mining Machinery Co., Cudahy, Wis.
Rockford Boiler & Steel Co., Rockford, Ill.
Smith, Samuel & Son Co., Paterson, N. J.
Titusville Iron Co., Titusville, Pa.

## Boilers (Low Pressure)

(See Heaters, Steam & Hot Water)

## 705— Boilers (Marine)

Almy Water Tube Boiler Co., Providence, R. I.
Atlantic Works, E Boston, Mass.
Babcock & Wilcox Co., 85 Liberty, New York
Bath Iron Works, Bath, Me.
Bay City Boiler Co., Bay City, Mich.
**BEGGS, JAMES & CO., Liberty &** Church, New York
Brennan, John & Co., Detroit, Mich.
Cahill, W. S. Co., Baltimore, Md.
Cain & O'Berry Boiler Works, Orlando, Fla.
Camden Anchor-Rockland Machine Co., Rockland, Me.
Casey-Hedges Co. (Scotch, Leg, & Special), Chattanooga, Tenn.
Central Boiler Works, Detroit, Mich.
Continental Iron Works, Brooklyn, N. Y.
Cramp, Wm. & Sons Ship & Engine Building Co., Phila., Pa.
Detroit Shipbuilding Co. (Scotch & Fire Box), Brass Dept., Detroit, Mich.
Dialogue, Jno. H. & Sons, Camden, N. J.
Farrar & Trefts, Buffalo, N. Y.
Fitzgibbons Boiler Co., Oswego, N. Y.
Fletcher, W. & A., Hoboken, N. J.
Fore River Ship Building Co., Quincy, Mass.
Gas Engine & Power Co., & Chas. L. Seabury & Co., Morris Heights, New York
**GODFREY-KEELER CO., 70 War-**ren, New York. (See adv. index, end of book)
Great Lakes Engineering Works, Detroit, Mich.
Harlan & Hollingsworth Corp., Wilmington, Del.
Johnson Bros., Ferrysburg, Mich.
Keeler, E. Co., Williamsport, Pa.
Kingsford Foundry & Mach. Works, Oswego, N. Y.
**KITTOE BOILER & TANK CO. (Inc.),** Canton, O. (See adv. index, end of book)
Lake Erie Boiler Works, Buffalo, N. Y.
Lake Erie Engineering Works (To 16 ft. in Diameter), Buffalo, N. Y.
Lauson, J. Mfg. Co., New Holstein, Wis.
Leslie, Elliott & Co., Paterson, N. J.
Logan Iron Works, Brooklyn, N. Y.
McIlvain & Spiegel Boiler Tank Co., Cincinnati, O.
Manistee Iron Works Co., Manistee, Mich.
Manitowoc Boiler Works Co., Manitowoc, Wis.
Marine Iron Works Co., Chicago, Ill.
Marvel, T. S. Shipbuilding Co., Newburgh, N. Y.
Maryland Steel Co., Sparrows Point, Baltimore, Md.
Merrill-Stevens Co., Jacksonville, Fla.
Moran Co., Seattle, Wash.
Morris, I. P. Co., Philadelphia, Pa.
Mosher Water Tube Boiler Co., 30 Church, New York
New London Marine Iron Works, New London, Conn.
New York Shipbuilding Co., 12 B'way, New York
Oil City Boiler Works, Oil City, Pa.
Oldman Boiler Works (Upright), Buffalo, N. Y.
Philadelphia Iron Works, 18th & Penna. av, Phila., Pa.
Portland Co., Portland, Me.
**Pussey & Jones Co., Wilmington, Del.**
Quintard Iron Wks. Co., 742 E 12th, New York
Racine Boat Mfg. Co., Muskegon, Mich.
Roberts Safety Water Tube Boiler Co., 39 Cortlandt, New York
Robins, Jno. N. Co., Erie Basin, S Brooklyn, New York
**RODGERS BOILER & BURNER CO.** (Internally Fired), Muskegon, Mich. (See adv. index, end of book)
Shewan's, James Sons, 11 E Houston, New York
Skinner Ship Building & Dry Dock Co. (Scotch Pattern), Baltimore, Md.
Smith, Samuel & Son Co., Paterson, N. J.
Spedden Ship Building Co., Baltimore, Md.
Speirs Bros., New London, Conn.
Taylor Water Tube Boiler Co., Detroit, Mich.
Thames Tow Boat Co., New London, Conn.
**THROPP'S, JNO. E. SONS CO., Tren-**ton, N. J. (See adv. index, end of book)
Townsend & Moore Eng. Works, 2 Erie Basin, Brooklyn, N. Y.
Union Iron Works Co., San Francisco, Cal.
Volk & Murdoch Iron Works, Charleston, S. C.

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## 706—Boilers (Oil Well Drilling)

**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 707—Boilers (Portable, on Wheels)

Atlas Engine Works, Indianapolis, Ind.
**BEGGS, JAMES & CO., Liberty & Church,** New York
Byers, Jno. F. Machine Co. (Vertical), Ravenna, O.
Casey-Hedges Co., Chattanooga, Tenn.
Chandler & Taylor Co., Indianapolis, Ind.
East St. Louis Locomotive & Machine Shop Co., East St. Louis, Ill.
Erie City Iron Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Frick Co., Waynesboro, Pa.
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)
Greensboro Boiler & Machine Co., Greensboro, N. C.
Leffel, Jatmes & Co. (Inc.), Springfield, O.
Munroe, R. & Sons Mfg. Corp., Pittsburg, Pa.
Oil City Boiler Works (Inc.), Oil City, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**Phoenix Iron Works Co., Meadville, Pa.**
Southern Engine & Boiler Works, Jackson, Tenn.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Titusville Iron Co., Titusville, Pa.
Union Iron Works Co., San Francisco, Cal.
**WARREN CITY TANK & BOILER** Co., Warren O. (See adv. index, end of book)

## 708—Boilers (Range, Copper)

**BADGER, E. B. & SONS CO., 77 Pitts.** Boston, Mass. (See adv. index, end of book)
Blessing, C. A., 516 Montgomery av, Phila.,
Boston Copper Works Co., Boston, Mass. Pa.
Dahlquist Mfg. Co. ("Boston"), Boston, Mass.
Gerstein Bros. & Cooper ("Eagle"), Boston, Mass.
Hayes Mfg. Co. ("Wilhelme," "Modern" & "Manhattan"), Paterson, N. J.
Moriarity, G. M., Boston, Mass.
Mott, J. L. Iron Works ("No-Seam"), 118 5th av, New York
Randolph-Clowes Co. (Brown Bros. "Seamless"), Waterbury, Conn.
Reardon Boiler Co., Boston, Mass.
Ronalds & Johnson Co., 54 Cliff. New York
Trageser, John Steam Copper Works, 447 W 26th, New York

## 709—Boilers (Range, Galvanized Iron)

Aird-Don Co. ("Trojan"). Troy, N. Y.
Brooklyn Range Boiler Co., Borden av, Long Island City, N. Y.
Cahill, Swift Mfg. Co. ("Crescent"), St. Louis, Mo.
Carroll, Patrick & Son, 1410 Fairmount av, Phila., Pa.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Debold Co. ("Gulick"), Big Run, Pa.
Detroit Range Boiler Co. ("Naco"), Detroit, Mich.
Fleck Bros. Co. ("Never Leak"), Phila., Pa.
Haines, Jones & Cadbury Co. ("Hajoca," "Leader," "Pointer," "Quaker City"), Phila., Pa.
Harney, Wm., 1349 N Warnock, Phila., Pa.
Heller, Aller & Co., Napoleon, O.
Hibbs, E. A., 209 Quarry, Philadelphia, Pa.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LEADER IRON WORKS (Jobbers),** Decatur, Ill. (See adv. index & branch offices, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
Pennsylvania Range Boiler Co., 2010 N 10th, Phila., Pa.
Pierce, Butler & Pierce Mfg. Co., Syracuse,
Riverside Boiler Works, Boston, Mass. N. Y.
Ronalds & Johnson Co., 54 Cliff. New York
Sloan, Sam'l & Co. ("Champion"), Rochester, N. Y.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Thompson Iron Works, 1825 Callowhill, Philadelphia, Pa.
Trageser, John, Steam Copper Works, 447 W 26th, New York
Walls, Owen & Stambach Co. ("Ajax," "Kineo," "Monitor"), Phila., Pa.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wood, Jno. Mfg. Co. (Electric Welded Seamless), Conshohocken, Pa.

## 710—Boilers (Range, Seamless Pressed Steel)

**PRESSED STEEL TANK CO.** (Seamless Drawn), Milwaukee, Wis. (See adv. index, end of book)

## 711—Boilers (Return Tubular)

Steam Specialists
**JAMES BEGGS & CO**
(Direct Return Improved Horizontal Return Tubular Boilers), Liberty & Church, New
Brownell Co., Dayton, O. York
Casey-Hedges Co., Chattanooga, Tenn.
Coatesville Boiler Works, Coatesville, Pa.
Cole, R. D. Mfg. Co., Newnan, Ga.
Crooks-Kries & Co., Baltimore, Md.
Erie City Iron Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of
Keeler, E. Co., Williamsport, Pa. book)
Kensington Engine Works, Philadelphia, Pa.
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Kingsford Foundry & Machine Co., Oswego,
Leffel, James & Co., Springfield, O. N. Y.
Leslie, Elliott & Co., Paterson, N. J.
Pettv. J. K. Co., Lebanon, Pa.
Robb-Engineering Co., So. Framington, Mass. Mass.
Smith, Samuel & Son Co., Paterson, N. J.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
York Mfg. Co., York, Pa.

## 711a— Boilers (Steam)

(See Boilers, Tubular; also Boilers, Water Tube; also Heaters, Steam & Hot Water)

## 712—Boilers (Steel Sectional)

**ABENDROTH & ROOT MFG. CO.** ("Root" Sectional Boilers a Specialty), Newburgh, N. Y. (See adv. index & branch offices, end of book)
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index end of book)
**SULLIVAN MACHINERY CO., Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**

## 713— Boilers (Tubular)

(See also Boilers, Water Tube; also Heaters, Steam & Hot Water)

### ALABAMA.

BIRMINGHAM — Birmingham Boiler Works (Marine; Return Tubular)
**MOBILE—Gulf City Boiler Works Co.**
McCarney Boiler Co.
MONTGOMERY—Hartley Boiler Works
SELMA—Union Iron Works Co.

### ARKANSAS.

BRINKLEY—Farrell Machine & Boiler Works
FORT SMITH—Breslin Boiler Works
Ketcham Iron Co.
PINE BLUFF—Pine Bluff Boiler & Iron Works (A. A. Lelaurin, Prop)

### CALIFORNIA.

CHICO—Diamond Match Co. (Engineering Dep't)
EUREKA—Eureka Boiler Works
LOS ANGELES—Baker Iron Works
Fulton Engine Works
Llewellyn Iron Works
Pioneer Boiler & Machine Works
Union Iron Works
Western Boiler Works
OAKLAND—Oakland Boiler Works
United Iron Works
SACRAMENTO—Phoenix Iron & Boiler Works
SAN DIEGO—San Diego Iron Works
SAN FRANCISCO—Bay City Iron Works
Brode Iron Works
California Boiler Works, 125 Fremont
Dyer Bros. Golden West Iron Works
Eureka Boiler Works Co. (Marine, Stationary & Locomotive), 57 Mission
Hendy, Joshua Iron Works
Keystone Boiler Works, Main c Folsom
Moore & Scott Iron Works
Moynihan, T. J. & Co., 401 Folsom
Pacific Coast Boiler Works, 235 Main
Risdon Iron & Locomotive Works
Union Iron Works Co.
STOCKTON—Stockton Iron Works

### COLORADO.

BLACK HAWK—Stroehle, Geo. & Sons
DENVER—Colorado Fuel & Iron Co. (Boiler & Repairs for Their Own Works)
Denver Boiler & Iron Works Co.
Denver Engineering Works Co.
McFarlane Mfg. Co.
Star Boiler & Sheet Iron Works (John Stearns-Roger Mfg. Co. Wich, Prop.)

### CONNECTICUT.

**BRIDGEPORT—Bridgeport Boiler Works Co. ("Lowe")**
Conn. Marine Boiler Works (B. M. Bren- McCathron Boiler Works nan, Prop.)
EAST NORWALK—Argand Boiler Co.
HARTFORD—Beach, H. B. & Son
NEW HAVEN—Bigelow Co. (Horizontal Return Tubular & Manning Vertical)
New Haven Boiler Works (Sullivan & Hennessy, Prop'rs.)
PUTNAM—Putnam Foundry & Machine Co.

### DELAWARE.

WILMINGTON—Harlan & Hollingsworth Corp. (Marine & Stationary)
Pusey & Jones Co. (Marine & Stationary)
Remington Machine Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Forsberg, Gustave W., 8th & Water, S W
Hurley, John E., 1219 Ohio av, N. W.

### FLORIDA.

JACKSONVILLE—Merrill-Stevens Co.

### GEORGIA.

ATLANTA—Finnigan, J. J. & Co.
AUGUSTA—Georgia Iron Works
Lombard Iron Works & Supply Co.
BRUNSWICK—Bay Iron Works
COLUMBUS—Columbus Iron Works Co.
Golden's Foundry & Machine Co.
MACON—Schofield, J. S. Sons Co.
NEWNAN — Cole, R. D. Mfg. Co. (Return Tubular)
SAVANNAH—Kehoe Iron Works
Mingledorff & Co., 510 Indian
Rourke, John & Sons
Savannah Locomotive Works & Supply Co.
VALDOSTA—Valdosta Foundry & Machine Co.

### HAWAII.

HONOLULU—Honolulu Iron Works Co.

### ILLINOIS.

AURORA—Aurora Boiler Works (Inc.) (Stationary, Portable & House Heating)
BELLEVILLE—Southern Boiler & Sheet Iron Works (Isselhardt & Scher, Prop'rs)
CAIRO—Torrance, Smith
CANTON—Savill & Chandler Co.
CHICAGO—**ABENDROTH & ROOT MFG.** Co. ("Root") (of Newburgh, N. Y.), Monadnock blk. (See adv. index, end of book)
Baragwanath, W. & Son, 1260 W Division
Chicago Ship Building Co., Marine, etc.), 101st & Calumet River
Conroy Boiler & Tank Co., 46th & Leavitt
Corbett, Geo. E. & Co., 1336 Clybourn pl.
**FAIRBANKS, MORSE & CO., 481** Wabash av. (See adv. index, end of book)
Frank, R. E. Steam Boiler Co., 6714 S Chicago av
Grand Crossing Boiler Works, 56 5th av
Haffner, Chas. Co., 2246 S Halsted
Hamler Boiler & Tank Co., 3906 S Halsted
Herbert Boiler Co., 240 Root
Hibben & Co., 9376 Ewing av
Hill-Hawkins Boiler & Tank Works, 10156 Avenue N
Illinois Malleable Iron Co., 1801 Diversey av

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**KEWANEE BOILER CO., 35 Michigan av.** (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av
Kroeschell Bros. Co. (Tubular, Locomotive & Upright), 440 W Erie
Krumbolz, August. 1664 Fullerton av
McFarland Bros., 5544 State
McGarry, Patrick & Son, 3401 S Hoyne av
McGregor Boiler Works Co., 427 S Clinton
Mohr, John & Sons, 349 W Illinois
National Boiler Works, 564 Fulton
Page Boiler Co., 815 Larrabee
Pfeiffer, Chris. Boiler Co., 223 W Michigan
Pfeiffer, Wm. C. Boiler Works, 1840 Carroll av
Pickham, Thos. F., 516 W 14th pl
Pratt, Henry Co., 2222 S Halsted
Ross Boiler Co., 4061 Lasalle
Sharkey & Peck, 2433 W 18th
Superior Machine & Boiler Works, 848 W Superior
Wachs, E. H. Co., 149 W Indiana
Wildman Boiler Works, 2613 W 12th
CHICAGO HEIGHTS—Chicago Heights Boiler Works
DANVILLE—Chesley Bros.
DECATUR—Oakes, Wm. L.
EAST ST. LOUIS—East St. Louis Locomotive & Machine Shop Co., East St. Louis, Ill.
Kickham, Jno. & Sons
**McNamee Boiler & Iron Co.**
GALESBURG — Frost Mfg. Co. (Horizontal & Vertical Tubular)
JACKSONVILLE—Kellogg Bros. & Co.
JOLIET—Heggie, James G.
**KEWANEE — KEWANEE BOILER CO.** (See adv. index, end of book)
MOLINE—Schillinger, Martin
PEKIN—Murphy & Walsh Boiler Works
PEORIA—Cody, Jos. & Sons
Forbes Boiler & Iron Works
QUINCY—Grimm Boiler Co.
**MICHELMANN STEEL CONSTRUCtion Co.** (See adv. index, end of book)
ROCKFORD—Rockford Boiler & Steel Co.
SPRINGFIELD—Springfield Boiler & Mfg. Co.
STREATOR—Jones, Wm. B.

## INDIANA.

BRAZIL—Vance, John Boiler Works
EVANSVILLE—Heilman Machine Works
Holtz, Ferd. Co.
Pelz, Wm.
FORT WAYNE—Bass Foundry & Machine Co. (Horizontal, Tubular & Water Tube)
Fort Wayne Foundry & Machine Co.
Gruber, F. J. Boiler Works
INDIANAPOLIS—Atlas Engine Works (Water Tube, Return Tubular, Portable, Internally Fired, Six-inch Flue, Vertical)
Central Boiler & Sheet Iron Works
**Chandler & Taylor Co. (Tubular, Upright & Firebox)**
Cruse & Connaughton, 532 S Capitol av
Kennedy, Patrick W., 1117 Beecher
National Boiler & Sheet Iron Works
Shea, Michael J.
Sinker-Davis Co., 230 S Missouri
JEFFERSONVILLE—Sweeney, M. A. Shipyard & Foundry Co.
LAFAYETTE—McGrath, Robert H.
LA PORTE—Rumley, M. Co.
MADISON—Henry, C.
Johnson Foundry & Machine Shops
LOGANSPORT—Griffith, Thos.
McAllister, Elmera
MARION—Walsh, E. F.
MUNCIE—Broderick Co.
Muncie Boiler & Sheet Iron Works
NEW ALBANY—Hegewald, Chas. Co.
Zeir Boiler & Sheet Iron Works
RICHMOND—Gaar, Scott & Co.
SOUTH BEND—Matthews Steam Boiler W'ks Co.
TERRE HAUTE—Phoenix Boiler Works Co.
Terre Haute Boiler Works Co.

## IOWA.

BURLINGTON—Murray Iron Works Co. (Tubular & Internal Furnaces, etc.)
CEDAR RAPIDS—Carmody Foundry & Machine Co.
DAVENPORT—Grupe Drier & Boiler Co.
DES MOINES—Iowa Boiler Works (Turner & Browlie, Props.)
McDonnell Boiler & Iron Works
DUBUQUE—Dubuque Boat & Boiler Works
Marshall, Wm.
Morrison Bros.
KEOKUK—McElroy Iron Works Co (D. W. McElroy, Prop'r)
MARSHALLTOWN—Shorthill, A. E. Co.
MUSCATINE—Garren & Hines
OTTUMWA—McDaniel, C. E.
Ottumwa Iron Works
WATERLOO—Mussett, R. G. & Son

## KANSAS.

ENTERPRISE—Ehrsam, J. B. & Sons Mfg. Co.
KANSAS CITY—Kaw Boiler Works
PITTSBURG—Pittsburg Boiler Works
TOPEKA—Bromich, Joseph
WICHITA—Guldaman & Son

## KENTUCKY.

LOUISVILLE—American Boiler Works
Grainger & Co. (Inc.)
Vogt, Henry Machine Co.
Walton, C. J. & Son

## LOUISIANA.

JEANERETTE—Jeffrey, Daniel
NEW ORLEANS—Connell, J. D. Iron Works
Johnson Iron Works (Ltd.) Co.
New Orleans Boiler Works (Jno. H. Murphy, Prop.)
SHREVEPORT—Parsons, P.
THIBODAUX—Lafourche Boiler & Sheet Iron Works
Thibodaux Boiler Works Co.

## MAINE.

BANGOR—Union Iron Works
BATH—Bath Iron Works
CAMDEN—Camden Anchor-Rockland Machine Co. (Marine, etc.)
HALLOWELL—Fuller's, Geo. Sons
PORTLAND—Estle & O'Brien Boiler Co.
Portland Co. ("Manning," "Dean" Marine & Stationary, Internally Fired), 58 Fore
Renneburg, Edward & Sons Co., 1917 Aliceanna
**Skinner Ship Building & Dry Docks Co. (Marine Scotch Pattern)**
Spedden Ship Building Co. (Marine, etc.)
Zastrow, George W., 1410 Thames
CUMBERLAND—McKaig, Merwin
SPARROWS POINT—Maryland Steel Co.

## MARYLAND.

BALTIMORE—Cahill, W. S. Co.
**Cathell Bros. & Co., 702 Covington**
Codd, E. J. Co., 700 S Caroline
Crooks-Kries & Co. (Return Tubular)
Fluskey, J. B., Dugan's wharf c Wood
McIntyre & Henderson, ft Montgomery
Marine Railway Machine & Boiler Works
Novelty Steam Boiler Works (Triplett & Jennings, Props.) (Stationary & Marine)
Poole Eng. & Machine Co., Woodberry

## MASSACHUSETTS.

BOSTON—Atlantic Works, 70 Border, E Boston
Bertelsen & Petersen Engineering Co.
Boston Engineering Co. 25 India Wharf
Hodge Boiler Works, Sumner nr North Ferry, E B
Minton, Richard, 119 Sumner, E B
New England Iron Works, B & Fargo
Riverside Boiler Works, 19 Congress
Russell, Daniel Boiler Works, 97 Boston
Russell, James Boiler Works Co., C c W 1st
CAMBRIDGE—Cambridge Iron Works
Roberts Iron Works Co., 180 Main
Robinson, A. F. Boiler Works, Binney nr 1st
FALL RIVER—Fall River Boiler Works
FITCHBURG—Dillon, D. M. Steam Boiler Wks.
FLORENCE—Norwood Engineering Co.
GLOUCESTER—Sylvester, F. & Co.
HOLYOKE—Holyoke Steam Boiler Works
Walsh's Holyoke Steam Boiler Works
LAWRENCE—McCabe, E. & Co.
LOWELL—Scannell Boiler Works
NEW BEDFORD—New Bedford Boiler & Machine Co.
QUINCY—Fore River Ship Building Co. (Marine, etc.)
SOUTH FRAMINGHAM — Robb Engineering Co. (Ltd.) (Locomotive Fire Box, Portable Internally Fired, etc.)
SPRINGFIELD—Hawkins, R. F. Iron Works
Walsh Boiler & Iron Works
WORCESTER—Allen, Wm. Sons Co.
Stewart, C. & Son

## MICHIGAN.

ADRIAN—Decker & Kaiser
ANN ARBOR—Sutter, Aug. F.
BATTLE CREEK—Brennan, Jno. & Co.
BAY CITY—Bay City Boiler Co.
**MacKINNON BOILER & MACHINE Co.** (See adv. index, end of book)
Marine Iron Co.
National Boiler Works (M. Maher, Prop.)
CHEBOYGAN—Cheboygan Boiler Works
**Hub City Boiler Co.**
DETROIT—Brennan, John & Co., 24th & M C Central Boiler Works, 3d & Congress R R
Detroit Ship Building Co. (Marine)
Great Lakes Engineering Works (Marine)
Sprenger, J. & Sons
Taylor Water Tube Boiler Co. (Water Tube)
FERRYSBURG—Johnston Bros.
GRAND RAPIDS—Central Boiler & Supply Co.
Grand Rapids Boiler Works
Leitelt, Adolph Iron Works
HANCOCK—Portage Lake Boiler Works
ISHPEMING—Cole, W. T.
JACKSON—Crowley Boiler Works
Keeley, James J.
KALAMAZOO — Clark Engine & Boiler Co. (Horizontal & Vertical)
Dutton, C. H. Co. ("Eureka")
LUDINGTON—Davies, J. H.
MANISTEE—Manistee Iron Works Co.
MENOMINEE—Fernstrum, Frank G.


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MUSKEGON—Muskegon Boiler Works (Also North American Boiler Co. Marine)
Racine Boat Mfg. Co. (Marine)
**RODGERS BOILER & BURNER** Co. (See adv. index, end of book)
OWOSSO—Owosso Boiler Works
SAGINAW—Bartlett, A. F. & Co.
Jackson-Church-Wilcox Co.
Wickes Bros.
ST. JOHNS—Richmond & Holmes
ST. JOSEPH—Isbell, J. W.

## MINNESOTA.

DULUTH—**CLYDE IRON WORKS (Vertical & Horizontal).** (See adv. index, end
Gogebic Steam Boiler Works of book)
Mesaba Boiler Mfg. Co.
FERGUS FALLS—Fergus Iron Works Co.
HOPKINS—Moran Boiler Co.
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—Bros, Wm. Boiler & Mfg. Co.
Diamond Boiler Works, 1828 N 1st
Knapp Water Tube Boiler Mfg. Co. (Water Tube)
**MINNEAPOLIS STEEL & MACHINE**ry Co. (See adv. index, end of book)
North Star Boiler Works, 505 13th av, S
RED WING—Densmore Bros.
ST. PAUL—St. Paul Boiler & Mfg. Co. (Tubular)
THIEF RIVER FALLS—Conklin Boiler Works
WINONA—Winona Boiler Co.
Schneider, J. C.

## MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
Corinth Engine & Boiler Works
VICKSBURG—Foley, P. J. & Son
Robinson, R. J.
Vicksburg Boiler & Iron Works

## MISSOURI.

JOPLIN—United Iron Works Co.
KANSAS CITY—Geis, Gustav
Urie-Snyder Iron Works Co.
ST. JOSEPH—Augustine, Anton C.
Geis & Bichler
**ST. LOUIS—Continental Boiler & Sheet Iron Works, 1216 Old Manchester av**
McGrath Boiler Works
Mabry, Frank Boiler Works Co.
**Missouri Boiler & Sheet Iron Works, 23d & Papin**
Nooter, Jno. Boiler Works Co., 816 N Main
O'Brien, John Boiler Works So.
**Rohan, John & Sons Boiler Works Co., 1915 N 9th**
**Ruemmeli-Dawley Mfg. Co., 3900 Chouteau**
Ryan Bros. Boiler & Sheet Iron Works, 811 N Levee
**South St. Louis Foundry, 7514 S B'way**
Verbarg, C. H., Lyon & Dorcas
**Wangler, Joseph F. Boiler & Sheet Iron Works Co., 1535 N 9th**
SPRINGFIELD—United Iron Works Co.

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Western Iron Works

## NEBRASKA.

LINCOLN—Smith, R. L. Machine Works
OMAHA—Drake-Williams-Mount Co.
Omaha Boiler Works

## NEW HAMPSHIRE.

CLAREMONT—Sullivan Machinery Co. (of Chicago, Ill.
EXETER—Exeter Machine Works
NASHUA—Spence & Rideout

## NEW JERSEY.

BAYONNE—Babcock & Wilcox Co. (See New York City)
CAMDEN—New York Shipbuilding Co. (Marine)
ELIZABETH—Elizabeth Machine & Iron Works
Hughes, Peter L.
Reilly & Purcell
DOVER—Dover Boiler Works
GLOUCESTER CITY—Rogers, John M. Works (Marine)
HARRISON—**WALSH'S SONS & CO. (See** adv. index, end of book)
HOBOKEN—Atkinson, Wm. H. Co., ft of 7th
Fletcher, W. & A. Co. (Marine, etc.), 12th & Hudson
JERSEY CITY—**GRISCOM-SPENCER CO.** (Repairs & Installations Also), Grand & Sussex. (See adv. index, end of book)
**KOVEN, L. O. & BRO., Paterson**
Plank rd c Montgomery. (See adv. index, end of book)
McLaughlin, Thomas, 53 Essex
Miller, Alex. Bros. (Stationary & Boat)
Smith, Theo. & Sons Co. (Stationary, Marine & Return Tubular), ft Essex
NEWARK—Bradley, John Boiler Works
**Gumz, Herman Boiler Works**
**Hartung, Louis Boiler Works**
**Hewes & Phillips Iron Works ("Manning")**
**LAMBERT HOISTING ENGINE CO., 117 Poinier. (See adv. Front Cover)**
**McCabe Boiler Works**
NEW BRUNSWICK—Prospect Boiler Co.
PATERSON—East Jersey Pipe Co.
Leslie, Elliott & Co.
Smith, Samuel & Son, 130 R. R. av
PERTH AMBOY—Perth Amboy Dry Dock Co.
PHILLIPSBURG—Tippett & Wood (Marine)
RED BANK—Roberts Safety Water Tube Boiler Co.
TRENTON—**CROSSLEY MACHINE CO.,** State & Monmouth. (See adv. index, end of book)
Spracklin Boiler & Machine Co.
**THROPP'S, JOHN E. SONS CO.** (Marine). (See adv. index, end of book)
Thropp's, Wm. R. Sons Co.
Watson, J. & Sons Co.

## NEW YORK.

ALBANY—Nicholson, Aaron
Skinner & Arnold Co.
AMSTERDAM—Collins, John H.
Hayflinger, John & Son
BINGHAMTON—Shapley & Wells
BROOKLYN—(See New York City, Borough of Brooklyn
BUFFALO—Campbell & Cook
Farrar & Trefts
Howard Bros. Boiler Works, 23 Indiana
Lake Erie Boiler Works, 192 Chicago
Oldman Boiler Works
Riter & Cousins, 73 Washington
Tashenberg Bros., 43 Illinois
Union Boiler Works
ELMIRA—Elmira Boiler & Iron Works
FISHKILL LANDING—Fishkill Landing Machine Co.
GENEVA—Vance Boiler Works
GREEN ISLAND—Franklin Boiler Works
Pinkerton, Robert (Est. of)
Reardon, Edward A.
JAMESTOWN—Jamestown Boiler Works
KINGSTON—Cullum, J. & Co.
LITTLE FALLS—Reddy's, M. Sons
LOCKPORT—Brown, Francis A.
LONG ISLAND CITY—(See New York City, Borough of Queens)
NEWBURGH—**ABENDROTH & ROOT** Mfg. Co. ("Root") (See adv. index, end
Delaney, P. & Co. (Marine, etc.) of book)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Atlantic Basin Iron Works, Imlay c Summit
Columbia Engineering Works, Erie Basin
Continental Iron Works, Calver c West
Cunningham, Christopher Co., 437 Greenpoint av
Donohue's, P. J. Sons, 108 Wallabout
Franklin Machine & Steam Boiler Works
Gilroy, James J., ft of 24th 17 Franklin
Hall & Hurlbert, ft. of 24th
Logan Iron Works, 42 Commercial
McGibbon Engineering & Iron Works, 14
Manton, John, ft. of Court Columbia
Meyers, Otto C. & Co., 30 Franklin
Morrin-Climax Boiler Co. ("Climax" Steam Generators), 240 Lorraine
Morse Dry Dock & Repair Co. (Marine), ft of 56th
Robins, Jno. N. Co., ft of Dwight
Ross Iron Works, ft of 27th
Simpson & Snowden, 220 Russell

### Boroughs of Manhattan & Bronx.

NEW YORK—**ABENDROTH & ROOT** Mfg. Co. (of Newburgh, N. Y.) ("Root"), Fulton bldg. (See adv. index, end of book)
Ames Iron Works, 85 Liberty. Works: Oswego, N. Y.
Andrews, Phalon & Co., 628 W 24th
Babcock & Wilcox Co. (Forged Steel), 85 Liberty

Steam Specialists

**JAMES BEGGS & Co.**

(Tubular, Locomotive, Portable, Horizontal & Vertical), Liberty & Church, New York
Dunne, Michael F., 223 West
Fogarty, Michael, 533 W 33d
Fox's, Geo. Sons, 511 W 34th
Gas Engine & Power Co. & Chas. L. Seabury Co. (Marine & Stationary), Morris Heights, N. Y.
**GODFREY-KEELER CO., 70 Warren.** (See adv. index, end of book)
**GORTON & LIDGERWOOD CO., 96 Liberty.** (See adv. index, end of book)
**GRISCOM-SPENCER CO. (Repairs & Installations Also), 90 West.** (See adv. index, end of book)
G. & W. Mfg. Co., 26 Cortlandt
Heipershausen Bros., 43 Tompkins
**LIDGERWOOD MFG. CO., 96 Liberty.** (See adv. index, end of book)
Maxim Co. ("Maxim"), 130 Fulton
Mitchell Co. (Marine), 621 W 24th
Mosher Water Tube Boiler Co., 30 Church. Works, Ossining, N. Y.
**NASON MFG. CO., 71 Fulton, (See** adv. index, end of book)
New York Engine Co. (Heavy Duty, High Pressure), 165 B'way. Works, Watertown, N. Y.
New York Safety Steam Power Co. (Worthington Sectional), 95 Liberty
Nichols, D. M. Iron Works, 2 Gouvernor sl.
Oil City Boiler Works (Inc.) ("Geary Stationary & "Hohenstein" Marine), 39 Cortlandt; Works: Oil City, Pa.
Quintard Iron Works, 742 E 12th
Reid, Alex., 165 Charles
**RUGGLES-COLES ENGINEERING** Co. (Horizontal & Tubular), 48 Church. (See adv. index, end of book)
Smith, A. & Son, 685 11th av
Turl's, John Sons (Inc.), 95 Liberty. Works: Newburgh, N. Y.

### Borough of Queens.

LONG ISLAND CITY—Collins, Wm. P. Co.

**(End of New York City)**

NORTH TONAWANDA—Herschell-Spillman Co.
NYACK—Kane, John (Portable)
OGDENSBURG—Nash Bros. & Co.
OSSINING—Mosher Water Tube Boiler Co. (See N. Y. City)
OSWEGO—Ames Iron Works (Tubular, Portable on Skids or Wheels)
Carroll, Charles
Fitzgibbon Boiler Co. (Vertical & Marine)
Kingsford Foundry & Machine Works ("Eclipse" Stationary, Marine & Portable)
PHELPS—Collins Iron Works
ROCHESTER—Hall's, Sidney Son
Rochester Machine Tool Works (Ltd.) ("Buckley" Patent Water Tube)
Rochester Tank & Boiler Co.
Wilson, W. A. Machine Co.
SYRACUSE—Hennessy, Dennis
Mack Bros.
Perry, Jno. W. & Son
Syracuse Boiler Works
TONAWANDA—Gillie Machine Co.
Mahar, Jno.
TROY—Sutherland & Kelly

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Utica Steam Engine & Boiler Works
WATERTOWN—New York Engine Co. (Heavy Duty, High Pressure.) (See N. Y. City)
WELLSVILLE—McEwan Bros.

## NORTH CAROLINA.

CHARLOTTE—Liddell Co.
Mecklenburg Iron Works
SANFORD—Moffitt Iron Works Co.
WINSTON SALEM—Salem Iron Works

## NORTH DAKOTA.

CASSELTON—Davidson & Sorenson
FARGO—Craig Bros.
Fargo Foundry Co.

## OHIO.

AKRON—Biggs Boiler Works Co.
McNeil Boiler Co.
ALLIANCE—Reeves Bros. Co.
ASHTABULA—McKinnon Iron Works
BARBERTON—Babcock & Wilcox Co. (See
BUCYRUS—Kelly Mfg. Co., New York City)
CANTON — CANTON BOILER & ENGINEERING Co. (See adv. index, end of book)
KITTOE BOILER & TANK CO. (Inc.) (See adv. index, end of book)
CINCINNATI—McIlvain & Spiegel Boiler & Tank Co.
Tudor Boiler Mfg. Co. (Tubular, Horizontal & Vertical), 715 E 3d
CLEVELAND—American Ship Building Co.
Cleveland Steam Boiler Works (Marine)
Connelly, D. Boiler Co. (All Kinds)
Cuyahoga Boiler Works
Lake Erie Boiler Works
Murphy & Donnelly Boiler Co. (Marine)
Ohio Machine & Boiler Co.
Teachout, H. E. Boiler Works
Variety Iron & Steel Works Co.
COLUMBIANA—Columbiana Boiler Co.
COLUMBUS—Borger Bros. Co.
Columbus Steam Boiler & Heater Co.
Eaton Machine Works
Micklaus Boiler Works
Scioto Boiler Works, 33 N Scioto
Union Boiler Works, 71 S Center
DAYTON—Brownell Co. (Portable, Vertical & Buckeye Boiler Co. Return Tubular)
GEM CITY BOILER CO. (See adv. index, end of book)
Graves & Marshall
Platt Iron Works Co.
FINDLAY—Adams Bros. Co.
GIRARD—McAllister-Byrne Construction Co.
LEETONIA—Leetonia Boiler Co.
LIMA—Golley & Finley Iron Works
LORAIN—American Ship Building Co. (Marine)
Lorain Boiler Works
LOWELLVILLE—Meehan Boiler & Cons. Co.
MARIETTA—Ohio Valley Boiler Works
Pattin Bros. Co.
Strecker, H.
MARION—Huber Mfg. Co.
MASSILLON—Russell & Co.
MIDDLEPORT—Middleport Boiler Works
Ohio Machine Co.
MOUNT VERNON—Cooper, C. & G. Co. (Steel)
NEWARK—McNamar, Julius J. D.
Scheidler Machine Works Co.
NILES—Standard Boiler & Plate Iron Co. ("Hyde," Vertical Water Tube)
ST. MARYS—St. Marys Machine Co.
SPRINGFIELD—Casey, D. L. Machine Co.
Leffel, Jas. & Co. (Inc.) (Stationary, Portable, Horizontal & Vertical, for Farm Implements Only)
Roberts, Thomas, Highland av
Trump Mfg. Co. (Stationary 8 to 20 H. P.)
STEUBENVILLE—Cady, A. L.
TIFFIN—Canty, John F.
Conley, T. F.
TOLEDO—Globe Boiler Works
Ironville Boiler Works (Michael-Healy, Prop)
Loos, Adam
McNaull Boiler Mfg. Co.
Marine Boiler Works Co.
Toledo-Flanner Boiler Co.
Toledo Ship Building Co. (Marine)
WARREN—WARREN CITY TANK & Boiler Co. (See adv. index, end of book)
YOUNGSTOWN—Pollock, W. B. Co.
ZANESVILLE—Griffith & Wedge Co.

## OKLAHOMA

TULSA—Tulsa Boiler & Sheet Iron Works Co.

## OREGON.

ALBANY—Albany Iron Works
ASTORIA—Astoria Iron Works (Inc.)
PORTLAND—East Side Boiler Works (R. W. Phoenix Iron Works Orewiler, Prop.)
Portland Boiler Works (James Monks, Trenkman, B. & Co. Prop.)

## PENNSYLVANIA.

ALLENTOWN—Allentown Boiler Works (Chas. C. Collum, Prop.)
Heilman Boiler Works
McDermott Engineering Co.
BEAVER FALLS—Beaver Valley Boiler Works
BIG RUN—Debold Co.
BRADFORD—Bovaird & Co.
Bovaird & Seyfang Mfg. Co. ("Electric")
Hamilton, Frank
O'Brien & Harrigan
CHESTER — Berry Engineering Co. ("Berry" Safety)
Economy Iron Works (C. Y. James, Prop.)
Wetherill, Robert & Co. ("Berry" Safety, Tubular, Flue, Marine & Fire Box)
COATESVILLE—Coatesville Boiler Works (Return Tubular, Stationary, Vertical, etc.)
COLUMBIA—Fairer & Son
CONNELLSVILLE—Connellsville Iron Works
CONSHOHOCKEN—Bate, Wm. T. & Son
CORRY—Ajax Iron Works (Stationary & Portable)
Climax Mfg. Co.
Corry Steam Boiler Works
DUBOIS—Dubois Iron Works (Tubular)
EAST STROUDSBURG — International Boiler
ERIE—American Boiler Works Works Co.
Erie City Iron Works ("Economic" Stationary, Portable, Vertical, Return Tubular, etc.)
Erie Engine Works
Nagle Engine & Boiler Works
Pennsylvania Boiler Works
Rococo Boiler Co.
Tashenberg Bros.
FRANKLIN—Jones, R. E. & Co.
Union Iron Works
HAMBURG—Seiders, Henry
HARRISBURG—Harrisburg Foundry & Machine Works (High Duty)
Harrisburg Mfg. & Boiler Co.
HOLLIDAYSBURG—Madden Boiler Works
KENNETT SQUARE—American Road Machine Co. (Portable & Stationary)
LANCASTER—Barry & Zecher Co.
LANDISVILLE—Monitor Steam Generator Mfg. Co. (Wrought Iron Coil High Pressure)
LEBANON—Petty, J. K. & Co. (Return Tubular, Locomotive, Vertical, etc.)
Union Boiler Mfg. Co.
MEADVILLE—Phoenix Iron Works Co.
NEW CASTLE—Fleming's, Wm. Sons
Pennsylvania Engineering Works
NORRISTOWN—Newbold, R. S. & Son Co.
OAKDALE—Kinney, F.
OIL CITY—Oil City Boiler Works (Inc.)
Oil Well Supply Co. (Of Pittsburg)
Ravey, Joseph H.
PETROLIA—Barney, H. M.
PHILADELPHIA—Baizley, John Iron Works, 510 S Delaware av
Bell Boiler & Iron Works, 3338 Collins
CONNERY & CO. (Also Breechings, etc.), 9th & Master. (See adv. index, end of book)
Cramp, Wm. & Sons Ship & Engine Building Co. (Marine), Beach c Ball
Ervien, C. W. & Co., G. & E. Venango
Gilman, Wm. 1110 Beach
McGovern & Smith, 2054 E Lehigh av
Morris I. P. Co., Beach & Ball
Parker Boiler Co., Pennsylvania bldg
Petty, J. K. & Co. (Return, Tubular, Locomotive, Vertical, etc.), Girard bldg. Works: Lebanon, Pa.
Philadelphia Iron Works, 18th & Penn av
Quaker City Iron Works, Richmond & Tioga
Rich, J. & G., 120 N 6th
Williamson Bros. Co., Aramingo av & E. Cumberland
PHOENIXVILLE—Heine Safety Boiler Co.
PITTSBURG—Carroll Porter Boiler & Tank Co., Empire bldg.
Hawksworth Bros., 3017 Smallman bldg.
Lappan, Jas. Mfg. Co., 20th & Pike
Long, Walter Mfg. Co.
McNeil, James & Bro. Co.
Manchester, Wm. Co., 3108 Smallman
Munroe, R. & Sons Mfg. Corporation
OIL WELL SUPPLY CO., 215 Water. (See adv. index, end of book)
Pearson Mfg. Co.
Rees, James & Sons, Duquesne way c 4th
Roberts, S. H. Boiler & Tank Co.
POTTSTOWN—Sotter Bros.
POTTSVILLE—Sparks & Parker
QUEENS JUNCTION—Roberts, S. H. Boiler & Tank Co.
READING—Orr & Sembower (Inc.) (Vertical, Horizontal & Locomotive)
Penn Boiler & Machine Works
Reading Iron Co.
SCRANTON—ALLIS-CHALMERS CO. (See adv. index, end of book)
Finch Mfg. Co.
Murch, Fred & Sons
SHAMOKIN—Mullen, John & Son
SHARON—Sharon Boiler Works
SHARPSVILLE—Sharpsville Boiler Works
TARENTUM—Tarentum Mfg. & Const. Co.
TATAMY—Messinger Mfg. Co. (Low Pressure)
TITUSVILLE—Titusville Iron Co. (Horizontal, Tubular & Fire Box)
TROY—Troy Engine & Machine Co.
TYRONE—Reader Bros. & Hoffman


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WASHINGTON—Ryan, Michael
WAYNESBORO—**Frick Co.**
Geiser Mfg. Co.
WILKES-BARRE—**Backus, Peter B.**
Vulcan Iron Works
BRISTOL—Dominion Iron Works
**WILLIAMSPORT—Keeler, E. Co.**
**YORK—Farquhar, A. B. Co. (Tubular)**
Motter, Geo. F. & Sons
Steacy-Schmidt Mfg. Co. (Water Tube, etc.)
York Ice Machine Mfg. Co. (Return Tubular)
York Steam Boiler Works

## RHODE ISLAND.

PROVIDENCE—Almy Water Tube Boiler Co. (Marine)
Globe Steam Boiler & Iron Works
Hicks Boiler Works
Wholey Boiler Works

## SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works
Riverside Iron Works
Valk & Murdock Iron Works

## SOUTH DAKOTA.

MITCHELL—Mitchell Boiler & Machine Works
**SIOUX FALLS—Harding, B. W.**
WATERTOWN—Hanten Machine Co.

## TENNESSEE.

CHATTANOOGA—Casey-Hedges Co.
Chattanooga Boiler & Tank Co.
**Lookout Boiler & Mfg. Co.**
Sherman-Morris Mfg. Co.
Walsh & Weidner Boiler Co.
JACKSON—Southern Engine & Boiler Works
KNOXVILLE—Dallas, B. B.
MEMPHIS—Shea, Daniel, Boiler Works
Southern Boiler & Tank Works
NASHVILLE—Culbert, Wm. & Sons

## TEXAS.

**BEAUMONT—Beaumont Iron Works**
**Dollinger, Jno.**
DALLAS—Mosher Mfg. Co.
Thrash, J. F.
FORT WORTH—Vanzandt-Moore Iron Works
GALVESTON—Astall Iron Works Co.
Bothman, Wm.
McDonough Iron Works
HOUSTON—Grant Locomotive & Car Works
Hartwell Iron Works
Tofte Boiler & Sheet Iron Works
Union Iron Works
SAN ANTONIO—Alamo Iron Works
SHERMAN—Washington Iron Works

## UTAH.

SALT LAKE CITY—Haynes, H. E.
Holmes, Samuel
**MINNEAPOLIS STEEL & MACHINE**ry Co. (of Minneapolis), Dooley blk. (See adv. index, end of book)
Salt Lake Engineering Works
Silver Bros. Iron Works Co.
Silver, A. Foundry & Machine Co.

## VERMONT.

RUTLAND—Holmes Iron Co.

## VIRGINIA.

**BERKLEY—Old Dominion Marine Railway**
**NEWPORT NEWS—Newport News Ship Building & Dry Dock Co.**
**NORFOLK—Etna Iron Works**
Smith & McCoy
RICHMOND—McCabe, Geo. & Son

## WASHINGTON.

BALLARD—Ballard Boiler Works (Inc.)
BELLINGHAM—Reid Bros. Co.
EVERETT—Mohlander, E. W.
Sumner Iron Works
OLYMPIA—Mason, C. Z.
SEATTLE—Commercial Boiler Works (Fox & Moran Co. Jenkins, Prop'rs)
Oregon Boiler Works (John Foster, Prop.)
Osborn, Geo. L. & Sons
Puget Sound & Queen City Boiler Works (Marine & Stationary)
Standard Boiler Works (Marine, Stationary
Vulcan Iron Works & Locomotive)
Washington Iron Wks. Co., Grant st bridge
SPOKANE—Brown Bros. (Inc.)
Cleary, J. E.
National Iron Works
Pacific Boiler Works
TACOMA—Norton, Wm., 2110 A
Puget Sound Boiler Works (J. A. Norton, Prop.)
Puget Sound Iron & Steel Works
Tacoma Steam Boiler Works

## WEST VIRGINIA.

CAIRO—Donovan, Hugh
CHARLESTON—South Side Foundry & Machine Works
Vulcan Iron Works
Ward, Chas. Engineering Works
MANNINGTON—Mannington Boiler Works
Munnell, H. E. & Co.
**PARKERSBURG—Mountain State Boiler Works**
SISTERSVILLE—Ryan, E. A.
WHEELING—Bryan & Bippus

## WISCONSIN.

APPLETON—Northern Boiler & Structural Iron Works
ASHLAND—Sanders, Robt. E.
BELOIT—Thompson, J. & Son Mfg. Co.
DE PERE—Lyons Boiler Works
HURLEY—Lambrix, Michael
JUNEAU—Briemann, C. G.
LA CROSSE—La Crosse Boiler Co.
MANITOWOC—Manitowoc Boiler Works Co. (Marine, Stationary, etc.)
MILWAUKEE — **ALLIS-CHALMERS CO.** (See adv. index, end of book)
American Boiler Works (Jos. Buxbaum & Cream City Boiler Co. Co., Prop'rs)
Mertes-Miller Co.
Meyer, Geo. J. Mfg. Co., 576 Clinton
**Milwaukee Boiler Co.**
Milwaukee Reliance Boiler Works
Murphy Boiler Co.
Schwab & Le Zotte Boiler Co.
**VILTER MFG. CO., 1046 Clinton.** (See adv. index, end of book)
OSKOSH—Battis Bros.
Reliance Boiler Works
RACINE—Freeman, S. & Sons Mfg. Co.
SHEBOYGAN—Optenberg Iron Works Co. (Stationary & Marine)
SUPERIOR—National Boiler Works Co.
Northwestern Boiler Works
WATERTOWN—Dornfeld-Kunert Co.
WAUSAU—Wausau Iron Works

## 713a— Boilers (Wash)

Atlantic Stamping Co. (Charcoal Tin, Copper Bottoms, etc.), Rochester, N. Y.
McAleer, E. J. & Co., 1422 N 8th, Phila., Pa.
Mosheik, P., 1108 S Halsted, Chicago, Ill.

## 714— Boilers (Water Tube)

**ABENDROTH & ROOT MFG. CO.** ("Root"), Newburgh, N. Y. (See adv. index & branch offices, end of book)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Almy Water Tube Boiler Co., Providence, R. I.
Atlas Water Tube Boiler Co., Franklin Bank bldg, Philadelphia, Pa.
Babcock & Wilcox Co. ("Stirling," "Cahall," "A. & T."), 85 Liberty, New York
Badenhausen & Hull (Inc.) ("Badenhausen"), Seattle, Wash.
Bass Foundry & Machine Co., Ft. Wayne, Ind.
Bath Iron Works ("Normand"), Bath, Me.
Bay City Boiler Works, Bay City, Mich.
**BEGGS, JAMES & CO., Liberty & Church, New York**
Bigelow Co. ("Bigelow-Hornsby"), New Haven, Conn.
Birmingham Boiler Works, Birmingham, Ala.
Brennan, John & Co., 24th & Toledo, Detroit, Mich.
Buckeye Boiler Co., Dayton, O.
Casey-Hedges Co., Chattanooga, Tenn.
Crowley Boiler Works, Jackson, Mich.
Dundon's, F. P. San Francisco Iron Works. ("Dundon's" Sectional), San Francisco, Cal.
East St. Louis Locomotive & Machine Shop Co., East St. Louis, Ill.
Edge Moor Iron Co., Edge Moor, Del.
Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kans.
Elliott Bay Iron Works, Seattle, Wash.
Erie City Iron Works (Horizontal & Vertical), Erie, Pa.
Erie Engine Works, Erie, Pa.
Fore River Ship Building Co. (Marine), Quincy, Mass.
Franklin Boiler Works Co. ("Franklin"), Troy, N. Y.
Freeman, S & Sons Mfg. Co. ("Bonus"), Racine, Wis.
Gas Engine & Power Co., & C. L. Seabury Co. (Seabury Safety, Marine & Stationary), Morris Heights, N. Y.
Geary Water Tube Boiler, 39 Cortlandt, New York, & Oil City, Pa.
Goss Water Tube Boiler Co., 204 Dearborn, Chicago, Ill.
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Harlan & Hollingsworth Corp. (Marine & Stationary), Wilmington, Del.
Harrisburg Mfg. & Boiler Co. ("Star"), Harrisburg, Pa.
Heine Safety Boiler Co., 2449 E Marcus av, St. Louis, Mo., & Phoenixville, Pa.


# THE IMPROVED ROOT WATER TUBE BOILER

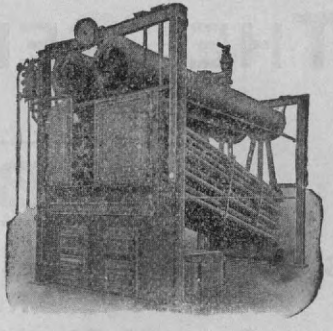
is a sectional Water Tube Boiler of the highest grade, and unrivalled for fuel economy, easy steaming qualities, safety and low cost of repairs, with large capacity for overload.

All parts subject to wear and replacement are interchangeable and the boiler can, if so ordered, be made sectional to admit of transportation on mule back through mountainous regions.

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GENERAL SALES OFFICE:
50 CHURCH STREET,
NEW YORK, U. S. A.



Root Sectional Water-Tube Boiler


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Herreshoff Mfg. Co. (Herreshoff Patent), Bristol, R. I.
Holyoke Steam Boiler Works, Holyoke, Mass.
Hyde Bros. & Co. ("Hyde"), Pittsburg, Pa.
Keeler, E. Co., Williamsport, Pa.
**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Kingsford Fdry & Mach Works, Oswego, N. Y.
Knapp Water Tube Boiler Mfg. Co. ("Knapp," Heating Boilers), Minneapolis, Minn.
Lyons Boiler Works, De Pere, Wis.
McNaull Boiler Mfg. Co. ("The McNaull), Toledo, O.
McNeil Boiler Co. ("Cook," up to 350 H. P.), Akron, O.
Marine Boiler Works Co. ("Bordeaux"), Toledo, Ohio
Marine Iron Works, 2036 Dominick, Chicago, Ill.
Maxim Co. ("Maxim"), 130 Fulton, New York
Meehan Boiler & Constr'n Co., Lowellville, O.
Milne Water Tube Boiler Co., 30 Church, New York
**MINNEAPOLIS STEEL & MACHINE**ry Co. ("Milne"). Minneapolis, Minn. (See adv. index & branch offices, end of book)
Mohr, Jno. & Sons (Inc.), 349 W Illinois, Chicago, Ill.
Moran Co. ("Badenhausen"), Seattle, Wash.
Morrin-Climax Boiler Co. ("Climax"), 240 Loraine, Brooklyn, N. Y.
Mosher Water Tube Boiler Co. ("Mosher" Marine & Stationary), 30 Church, New York. Works, Ossining, N. Y.
Munroe, R. & Sons, Corp., Pittsburg, Pa.
Murray Iron Works Co., Burlington, Ia.
**New York Central Iron Works, Geneva, N. Y.**
New York Safety Steam Power Co. ("Worthington"), 95 Liberty, New York
Nott Fire Engine Co. ("Nott"), Minneapolis, Minn.
O'Brien, John Boiler Works Co.
O'Dougherty, Francis C. ("Economy"), 22 Columbus pl, Brooklyn, N. Y.
Ofeldt, F. W. & Sons (Small), Nyack, N. Y.
Oil City Boiler Works (Inc.) ("Geary" Stationary & "Hohenslein" Marine), Oil City, Pa.. & 39 Cortlandt, New York
**OIL WELL SUPPLY CO. ("Wilkin**son"), 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Oswego Boiler & Engine Co. ("Oswego McNaul"), Oswego, N. Y.
Parker Boiler Co. ("The Parker"), Pennsylvania bldg, Phila.. Pa.
Pfeiffer, Chris. Boiler Co., 223 W Michigan, Chicago, Ill.
Risdon Iron & Locomotive Works, San Francisco, Cal.
Robb Engineering Co. (Ltd.), South Framingham, Mass.
Roberts Safety Water Tube Boiler Co., Red Bank, N. J.
Sharon Boiler Works ("Wheeler" Vertical), Sharon, Pa.
Sherman, Morris Mfg. Co., Chattanooga, Tenn.
Standard Boiler & Plate Iron Co. ("Hyde" Vertical), Niles, O.
Steacy-Schmidt Mfg. Co. ("American" Combination), York, Pa.
Sterling Machine Co. ("Buckley"), Norwich, Conn.
Taylor Water Tube Boiler Co. (for Yachts, Tugs, etc.), Detroit, Mich.
Thorpe, Platt & Co. ("Thornycroft"), 99 Cedar, New York
**THROPP'S, JOHN E. SONS CO. (All** Sizes), Ft. of Lewis, Trenton, N. J. (See adv. index, end of book)
Toledo Flanner Boiler Co. ("Park"), Toledo, O.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
Traylor Engineering Co. ("Hawkes"), Allentown, Pa., & 30 Church, New York
Union Iron Works, Erie, Pa.
Union Iron Works Co., San Francisco, Cal.
Vogt, Henry Machine Co. ("Vogt"), Louisville, Ky.
Ward. Chas. Engineering Works, Charleston, W. Va.
Wetherill, R. & Co. ("Berry"), Chester, Pa.
Wickes Boiler Co. ("Wickes," Vertical & Horizontal), Saginaw, Mich.
Wildman Boiler Works, 2613 W 12th, Chicago.
Wood, John Mfg. Co., Conshohocken, Pa. Ill.
Worthington Water Tube Boiler Co., 126 Liberty, New York

## Bolsters (Car Truck & Body)

(See Car Truck & Body Bolsters)

## Bolt Clippers

(See Clippers, Bolt & Rivet)

## 715—Bolt Header & Shoeing Vise (Combined)

Noyes, B. B. & Co. ("Little Giant"), Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 716—Bolt, Nut & Rivet Mfrs.

(See also Sub-classifications of Bolts; also of Nuts; also of Rivets; also of Screws; also of Washers)

### ALABAMA.

BIRMINGHAM—American Bolt Co. (Bolts, Nuts, Washers, etc.)
**Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers); Main Office: Pittsburg, Pa.**

### CALIFORNIA.

LOS ANGELES — California Industrial Co. (Bolts & Nuts)
SAN FRANCISCO—Judson Mfg. Co.
Pacific Rolling Mill Co.
Payne's Bolt Works (Bolts, Screws, Washers, etc.)

### COLORADO.

DENVER—Colorado Fuel & Iron Co. (Bolts, Nuts, etc.)

### CONNECTICUT.

ANSONIA—Ansonia Brass & Copper Co. (Bronze
HARTFORD—Atlantic Screw Works Bolts)
Hartford Machine Screw Co. (Bolts)
MILLDALE—Clark Bros. Bolt Co. (Bolts & Nuts)
NEW BRITAIN—Corbin Screw Corp. (Bolts, Stanley Works (Steel Bolts) etc.)
NEW HAVEN—American Rivet Co. (Rivets, Studs, Bolts, etc.)
**Cowles, C. & Co. (Bolts)**
**Reynolds & Co. (Bolts, Nuts, etc.)**
PLANTSVILLE—Atwater Mfg. Co. (Carriage Bolts)
SEYMOUR—New Haven Copper Co. (Copper)
**SHELTON—Bassett, D. M. (Bolts)**
**Shelton Co. (Bolts, etc.)**
SOUTHINGTON—Aetna Nut Co. (Nuts & Washers)
TORRINGTON—Coe Brass Mfg. Co. (Rivets)
Progressive Mfg. Co. (Rivets, etc.)
UNIONVILLE—Upson Nut Co. (Bolts, Nuts, Rivets, etc.)
**WATERBURY—Blake & Johnson Co. (Special Rivets, etc.)**
**Equipoise Rivet Co. (Brass Bolts, Nuts & Rivets)**
**Steele & Johnson Mfg. Co. (Bolts, etc., Brass)**
**Waterbury Brass Goods Corp. (Brass Rivets)**
**Waterbury Mfg. Co. (Rivets)**
WINSTED—Moore, Franklin Co. (Bolts, Nuts, etc.)
**Richards, T. C. Hardware Co. (Bolts, Nuts, & Rivets)**

### ILLINOIS.

AURORA—Wilcox-Richards Mfg. Co. (Bolts)
**CHICAGO—Champion Mfg. Co. (Nuts, Screws,** etc.), 7332 Kimbark av
Chicago Nut Co. (Brass Nuts, etc.), 617 W. Jackson boul
Chicago Screw Co. (Screws, etc.), 1026 S Homan av
Columbia Screw Co. (Screws, etc.), Cottage Grove av & 106th
Continental Bolt & Iron Works (Bolts, etc.), 22d & Union
Illinois Bolt, Nut & Forging Co. (Bolts, Rivets, etc.), 35th & Ashland av
Illinois Steel Co. (Track Bolts), 115 Adams
O'Leary, A. J. & Son Co., 644 W Lake
MARSEILLES—Moore, Joshua (Bolts, Rivets, etc.)
**ROCK FALLS—Russell, Burdsall & Ward Bolt & Nut Co. (Bolts, Nuts, Washers, etc.)**
ROCKFORD—Rockford Bolt Co. (Bolts, Rivets & Nuts)

### INDIANA.

GARY—Gary Bolt & Screw Co. (Bolts, Screws, etc.)

### MARYLAND.

BALTIMORE—Baltimore Bolt & Iron Works (Armstrong & Parker, Prop'rs) (Bolts. Nuts & Washers), 361 North
Dietrich Bros. (Bolts & Nuts), 344 North
National Supply Co. (Bolts, Nuts & Washers)

### MASSACHUSETTS.

**BOSTON—Boston Bolt & Iron Co. (Bolts, Nuts, Rivets, etc.), 40 Farnsworth**
Metropolitan Bolt Co. (Bolts, etc.), 367 Congress
New England Screw Co., 15 Chardon
Standard Rivet Co., 41 Lincoln
Sylvester Co. (Bolts, Spikes, etc.), 70 Kilby
Tubular Rivet & Stud Co. (Rivets), 87 Lincoln
EVERETT—New England Bolt & Steel Co. Bolts, Nuts & Washers)
PLYMOUTH—Plymouth Mills (Rivets & Washers)
TAUNTON—Taunton Rivet Works (Rivets & Washers)
WORCESTER — Anthony Screw Co. (Bolts, Nuts, etc.)
**Reed & Prince Mfg. Co. (Bolts, Nuts & Rivets)**
Smith, Thos. Co. (Bolts, Nuts & Washers)
W. & S. Mfg. Co. (Nuts & Washers)

### MICHIGAN.

DETROIT—Detroit Copper & Brass Rolling Mills (Rivets)
Detroit Screw Works (Bolts & Nuts)
Michigan Bolt & Nut Works (Bolts, Nuts, Rivets & Washers)

### MISSOURI.

KANSAS CITY—Kansas City Bolt & Nut Co. (Bolts, Nuts, Rivets & Washers)
**ST. LOUIS—American Car & Foundry Co.**
**Hirsch Rolling Mill Co. (Bolts & Nuts), Nat'l Bank of Com. bldg**
**Moran Bolt & Nut Mfg. Co. (Bolts, Nuts, Rivets, Screws & Washers), c Florida & Main**
St. Louis Screw Co. (Bolts, Nuts, etc.), 600 E Clarence av

### NEW JERSEY.

JERSEY CITY—Ames, W. & Co. (Bolts)
NEWARK—Newark Rivet Works (Rivets)
NUTLEY—Hartley, Daniel (Bolts, Rivets, etc.)

### NEW YORK.

AUBURN—Meyer & Co. (Iron Nuts, etc.)
BUFFALO—Buffalo Bolt Co.
Niagara Screw Co. (Bolts, Nuts & Screws)

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Gaskell, Wm. & Son (Bolts), 59 Freeman
Upham, V. B. & Bro. (Rivets), John c Hudson av

#### Boroughs of Manhattan & Bronx.

NEW YORK — American Car & Foundry Co., 165 B'way
Greenlie, Wyatt & Co. (Bolts, Nuts, Rivets & Washers), 499 Water
**Hall's, Samuel Sons (Bolts, Screws & Washers), 229 W 10th**
**SONNENSCHEIN, JACOB (Mfrs.** Agt. for Bolts, Nuts, Screws & Washers), 14 W 8th. (See adv. index, end of book)

**(End of New York City)**

**NORTH TONAWANDA—Buffalo Bolt Co.**
**PORT CHESTER—Russell, Burdsall & Ward Bolt & Nut Co. (Bolts, Nuts, Washers)**
**POUGHKEEPSIE—Anchor Bolt & Nut Co. (Bolts. etc.)**
ROCHESTER—Rochester Machine Screw Co. (Nuts, etc.)
**ROME—Rome Brass & Copper Co. (Copper Rivets & Washers, etc.)**
SYRACUSE—Central City Bolt Co. (Bolts &
**TROY—Burden Iron Co. (Rivets) Nuts)**

### OHIO.

BEREA—Ohio Nut & Bolt Co.
CINCINNATI — Elden, T. G. (Nuts, Rivets, etc.), 115 Sycamore
CLEVELAND—**ATLAS BOLT & SCREW** Co. (Bolts, Nuts, Rivets, Screws, etc.), Marquette, opp Hamilton av, N. E.
Bourne & Knowles Mfg. Co.
Champion Rivet Co. (Rivets)
Cleveland Bolt & Mfg. Co.
Cleveland City Forge & Iron Co. (Nuts)
Cuyahoga Nut & Bolt Works Co.
Electric Welding Products Co. (Bolts, Screws, etc.)

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Ferry Cap & Set Screw Co. Screws, etc.)
Foster Bolt & Nut Mfg. Co. (Bolts, Nuts, Screws, etc.)
Kirk-Latty Mfg. Co. (Bolts, Nails, Rivets, Screws, etc.)
Lake Erie Iron Co. (Bolts, Nuts & Washers)
Lamson & Sessions Co. (Bolts, Nuts & Rivets)
**NATIONAL ACME MFG. CO. (See** adv. index, end of book)
National Screw & Tack Co. (Bolts, Nuts & Peerless Automatic Machine Co. Rivets)
Upson Nut Co. (Bolts, Nuts & Rivets)
Western Automatic Machine Screw Co.
**COLUMBUS—Berry Bros. (Bolts, Nuts & Rivets)**
**Columbus Bolt Works (Bolts, Nuts, Rivets, Screws & Washers)**
**Lanman, E. B. Co. (Carriage Bolts, Nuts & Washers)**
CUYAHOGA FALLS—Falls Clutch & Machinery Co.
**ELYRIA—Western Automatic Machine Screw Co. (Bolts, Nuts, etc.)**
**TWIGHTWEE—Cincinnati Screw & Tap Co. (Bolts, Nuts, etc.)**

## PENNSYLVANIA.

**ETNA—Etna Forge & Bolt Co.**
**GLASSPORT—Severence, S. Mfg. Co. (Rivets, Spikes, etc.)**
JOHNSTOWN—Cambria Steel Co. (Bolts)
**LANCASTER—Penn Iron Co. (Ltd.) (Bolts & Nuts)**
**LEBANON—American Iron & Steel Mfg. Co. (Bolts, Nuts, Rivets & Washers)**
**MILTON—Milton Mfg. Co. (Bolts, Nuts & Washers)**
**NEW CASTLE—New Castle Forge & Bolt Co. (Bolts & Rivets)**
**NORRISTOWN — American Equipment Co. (Bolts, Nuts, etc.)**
**Reading Screw Co. (Stove & Fire Bolts)**
PHILADELPHIA—Hayden, A. & M., 304 N 22d
**Hoopes & Townsend Co. (Bolts, Nuts, Rivets, Screws & Washers), 1330 Buttonwood**
**Kurrie Bros. Co., 637 N Watts**
**National Bolt Works, 1630 N 9th**
**Philadelphia Machine Screw Works (Bolts, etc.), 624 Race**
Skelly, Thos. P. & Co. (Bolts), Carlton
**PITTSBURG—Flannery Bolt Co., Frick bldg**
Garland Nut & Rivet Co.
Graham Nut Co.
Hubbard & Co. (Bolts, Nuts, etc.)
Hussey, C. G. & Co. (Rivets, Copper)
Interstate Mfg. Co. (Bolts)
Lanz, M. & Sons (Bolts, Nuts, Rivets & Washers), Carson & 29th
**NATIONAL BOLT & NUT CO.** Bolts, Nuts, Screws & Washers. (See adv. index & branch offices, end of book)
Neely Bolt & Nut Co. (Ltd.), (Bolts, Nuts, Washers, etc.)
Oliver Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), S. 10th & Muriel

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Pittsburg Equipment Co. (Bolts, Nuts, etc.)
Pittsburg Forge & Iron Co. (Bolts, etc.)
**Pittsburg Rivet Co., 38th & Junction R. R.**
Pittsburg Screw & Bolt Co. (Bolts, Nuts & Rivets)
Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers)
POTTSVILLE—Pottsville Bolt Co. (Bolts & Screws)
**READING—American Iron & Steel Mfg. Co.**
**SCRANTON—Scranton Bolt & Nut Co. (Bolts, Nuts, Rivets, Screws & Washers)**

## RHODE ISLAND.

**PAWTUCKET—Haskell, Wm. H. Mfg. Co. (Bolts, Nuts, Screws & Washers)**
**Pawtucket Mfg. Co. (Bolts, Screws, etc.)**
**PROVIDENCE—American Screw Co. (Bolts,**
Eastern Bolt & Nut Co. Nuts & Rivets)
**Rhode Island Tool Co. (Bolts, Nuts & Washers)**
Rogers Screw Co. ers)
**VALLEY FALLS—Standard Nut & Bolt Co.**

## VIRGINIA.

**RICHMOND—Old Dominion Iron & Nail W'ks Co. (Bolts, Nuts, Rivets, Spikes, Washers)**
Tredegar Co. (Bolts, Spikes, etc.) ers, etc.)

## WEST VIRGINIA.

**WHEELING—Hazel Atlas Glass Co. (Bolts, Nuts & Washers)**

## 717— Bolt & Screw Cases

American Bolt & Screw Co. (Revolving), Dayton, O.
Eclipse Mfg. Co. (Sectional Revolving), Wellston, O.
Green, A. H. Co., 22 Park row, New York
Heller, W. C. Co., Montpelier, O.
Warren, J. D. Mfg. Co., Masonic Temple. Chicago, Ill.

## 718—Bolt & Shield (Expansion)

**DIAMOND EXPANSION BOLT CO.** ("Diamond"), 90 West, New York. (See adv. index & branch offices, end of book)
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
**STAR EXPANSION BOLT CO. 147** Cedar, New York. (See adv. index & branch offices, end of book)

## 718a—Bolters ("Monarch" Self-Balancing)

**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

## 719— Bolters (Universal)

**ALLIS-CHALMERS CO. (with Vibro-motor Drive),** Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 720— Bolting Cloth

(See also Wire Cloth)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Buffalo Weaving Co. (Webs), Buffalo, N. Y.
Cornelius Mill Furnishing Co. ("Bodmer" & "Schindler" Silk, Imported), St. Louis, Mo.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Gump, B. F. Co. (Silk), 429 S Clinton, Chicago, Ill.
Hammond-Homberger Co. ("Excelsior Anchor"). Silver Creek, N. Y.
Holmes & Blanchard ("Imperial" Silk), 31 State, Boston, Mass.
**Howard & Morse (Wire), 45 Fulton, New York**
Latimer, R. L. & Co. ("Anchor Brand"), 24 N Front, Philadelphia, Pa.
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index end of book)
Nordyke & Marmon Co. (Silk & Wire), Indianapolis, Ind.
**SPROUT, WALDRON & CO. (Silk &** Wire), Muncy, Pa. (See adv. index, end of book)
Starr, B. F. Co. (Swiss Silk), Baltimore, Md.
Tobler & Co. ("Dufour" Silk), 35 S William, New York
**TYLER, W. S. CO. (Wire), Cleveland,** O. (See adv. index & branch offices, end of book)

## 721— Bolts (Anchor)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**CHURCH, ISAAC, South Norwalk,** Conn. (See adv. index, end of book)
**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)
**Farrington, H. (Expansion), 45 B'way, New York**
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
**NATIONAL BOLT & NUT CO., Pitts-**burg, Pa. (See adv. index & branch offices, end of book)
Penna. Iron Co., Lancaster, Pa.
**Pittsburgh Rivet Co., 38th & Junction R. R., Pittsburgh, Pa.**
**Rockford Bolt Co., Rockford, Ill.**
**STAR EXPANSION BOLT CO. ("Star"** & "Sebco"), 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.,** 124 N 6th, Phila., Pa. (See adv. index, end of book)
Variety Mfg. Co. (Of All Kinds, etc.), Sacramento & Carroll av, Chicago, Ill.

## 722—Bolts (Automobile Steering Knuckle)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## 723— Bolts (Barn Door)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Sargent & Co., New Haven, Conn.
**Stearns, E. C. & Co., Syracuse, N. Y.**

## 724— Bolts (Barrel)

Griffin Mfg. Co. (Wrought Steel), Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
**New England Bolt & Steel Co., Everett, Mass.**
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
**Russell & Erwin Mfg. Co., New Britain, Conn.**
Sargent & Co., New Haven, Conn.
Shelby Spring Hinge Co. (Wrought Steel), Shelby, O.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)

## 725—Bolts (Belt or Elevator)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**American Screw Co., Providence, R. I.**
Central City Bolt Co., Syracuse, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Clark Bros. Bolt Co. (Elevator), Milldale, Conn.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Columbus Bolt Works, Columbus, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
**Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.**
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Lake Erie Iron Co. (Elevator), Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Rockford Bolt Works, Rockford, Ill.
Smith, Thos. & Co., Worcester, Mass.

## 726— Bolts (Bicycle)

Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Western Automatic Machine Screw Co., Elyria, Ohio

## 727—Bolts (Billiard Table)

Shelton Co., Shelton, Conn.

## 728—Bolts (Boiler Patch)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**Anthony Screw Co., Worcester, Mass.**
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
**DIAMOND EXPANSION BOLT CO.** ("Diamond"), 90 West, New York. (See adv. index & branch offices, end of book)
Falls Hollow Stay Bolt Co., Cuyahoga Falls, O.
Hall's, Samuel Sons, 229 W 10th, New York
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Niagara Screw Co., Buffalo, N. Y.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Screw Co., St. Louis, Mo.
Western Automatic Machine Screw Co., Elyria, Ohio
**Worcester Machine Screw Co., Worcester, Mass.**

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## 729— Bolts (Boiler Stay)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Falls Hollow Stay Bolt Co., Cuyahoga Falls, O.
Flannery Bolt Co. ("Tate" Flexible), Frick bldg, Pittsburg, Pa.
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Lockhart Iron & Steel Co., Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Supply Co., Baltimore, Md.
Pittsburg Mfg. Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Youngstown, O.
Rockford Bolt Works, Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Screw Co., St. Louis, Mo.
Western Automatic Machine Screw Co., Elyria, Ohio

## 730—Bolts (Brass & Copper)

American Iron & Steel Mfg. Co. (Brass & Bronze Only), Lebanon & Reading, Pa.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Equipoise Rivet Co. (Brass for Plumbers' Use), Waterbury, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hendricks Bros. (Copper Only), 49 Cliff, New York
**HUNGERFORD, U. T. BRASS & COPP**er Co., 497 Pearl, New York
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
New Haven Copper Co. (Copper), Seymour, Conn.
Pawtucket Mfg. Co., Pawtucket, R. I.
Peck, Stow & Wilcox Co., Southington, Conn.
Phosphor Bronze Smelting Co., (Ltd.), 2200 Wash'n av, Phila., Pa.
Reading Hardware Co. (Brass), Reading, Pa.
Rockford Bolt Co. (Brass), Rockford, Ill.
Taunton-New Bedford Copper Co. (Copper), Taunton, Mass., & New Bedford, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio

## 731—Bolts (Bridge & Structural)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Ballard Drop Forge Co., Ballard, Seattle, Wash
Boston Bolt & Iron Co., Boston, Mass.
Central City Bolt Co., Syracuse, N. Y.
Colorado Fuel & Iron Co., Denver, Colo.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Gary Bolt & Screw Co., Gary, Ind.
Gaskell, Wm. & Son, 59 Freeman, Brooklyn, N. Y.
Graham Nut Co., Pittsburg, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Cleveland, O.
Lanz, Mathew & Sons, Pittsburg, Pa.
McGookin, D. H. & Co., 1630 N 9th, Phila., Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
New England Bolt & Steel Co., Everett, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
Reynolds & Co., New Haven, Conn.
Rockford Bolt Co., Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Simmons & Sons, Spokane, Wash.
Smith, Thos. Co., Worcester, Mass.
Sylvester Co., 70 Kilby, Boston, Mass.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

## 731a— Bolts (Bronze)

(See Bolts, Brass & Copper)

## 731b— Bolts (Cam)

**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

## 732— Bolts (Car)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Lake Erie Iron Co., Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Pottsville Bolt Co., Pottsville, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.

## 733— Bolts (Carriage)

American Bolt Co., Birmingham, Ala.
American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
**ATLAS BOLT & SCREW CO., Mar**quette, opp Hamilton av, N E, Cleveland, O.
Ballard Drop Forge Co., Ballard, Seattle, Wash
Bassett, D. M. Bolt Works, Shelton, Conn.
Berry Bros., Columbus, O.
Boston Bolt & Iron Co., Boston, Mass.
Buffalo Bolt Co., Buffalo, N. Y.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Cleveland Bolt & Mfg. Co. ("North" Patent), Cleveland, O.
Columbus Bolt Works (Common & "Eagle"), Columbus, O.
Cowles, C. & Co., New Haven, Conn.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Frost, L. D. (Est. of), Marion, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Gary Bolt & Screw Co., Gary, Ind.
Haydon, A. & M., 304 N 22d, Phila., Pa.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.
Lake Erie Iron Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
**Lanz, Matthew & Sons, Pittsburg, Pa.**
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moore, Franklin Co., Winsted, Conn.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
National Supply Co., Baltimore, Md.
Neely Nut & Bolt Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Payne's Bolt Works, San Francisco, Cal.
Peck, Stow & Wilcox Co., Southington, Conn.
Republic Iron & Steel Co., Youngstown, O.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Shelton Co., Shelton, Conn.
Skelly, Thos. P. & Co., 24th & Carlton, Phila., Pa.
**SONNENSCHEIN, JACOB (Mfrs. Agt.),** 14 W 8th, New York. (See adv. index, end of book)
Steel Car Forge Co., Pittsburg, Pa.
Upson Nut Co. (Common, "Philadelphia," "Coleman Eagle"), Unionville, Conn., & Cleveland, O.

## 734— Bolts (Collar)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Hall's, Samuel Sons, 229 W 10th, New York
Michigan Bolt & Nut Works, Detroit, Mich.
**NATIONAL-ACME MFG. CO. (Milled),** 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Old Dominion Iron & Nail Works Co., Richmond, Va.
Pittsburgh Rivet Co., 38th & Junction R. R., Pittsburgh, Pa.
Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.
Western Automatic Machine Screw Co., Elyria, Ohio

## 735—Bolts (Copper Soldering)

Ansonia Brass & Copper Co., 99 John, New York. Works, Ansonia, Conn.
Clendenin Bros., Baltimore, Md.
New Haven Copper Co., Seymour, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.

## 736— Bolts (Countersunk)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Columbus Bolt Works, Columbus, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Samuel Sons, 229 W 10th, New York
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions, Cleveland, O.
Lanz, Matthew & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moore, Franklin Co., Winsted, Conn.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
Rhode Island Tool Co., Providence, R. I.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scranton Bolt & Nut Co., Scranton, Pa.
**STAR EXPANSION BOLT CO. ("Star"** Expansion), 147 Cedar, New York. (See adv. index & branch offices, end of book)
Western Automatic Screw Co., Elyria, O.

## 737— Bolts (Coupling)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Anthony Screw Co., Worcester, Mass.
Boston Bolt & Iron Co., Boston, Mass.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Electric Welding Products Co., Cleveland, O.
Haskell, Wm. H. Mfg. Co. (Nut, Tapped, etc.), Pawtucket, R. I.
Hill, Geo. Q. Co., Boston, Mass.
Kansas City Bolt & Nut Co., Kansas City, Mo.
**NATIONAL-ACME MFG. CO. (Milled),** 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Niagara Screw Co., Buffalo, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Reynolds & Co. (Milled), New Haven, Conn.
Rhode Island Tool Co. (Milled Hexagon Heads & Nuts), Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

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## 738– Bolts (Cross Arm)

American Iron & Steel Mfg. Co. (Galvanized), Lebanon, & Reading, Pa.
Columbus Bolt Works, Columbus, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.
Phila. Electrical & Mfg Co. ("Pemco," Malleable Spacer & Cross Arm Bolt), 1228 N 31st, Phila., Pa.
**Rockford Bolt Co., Rockford, Ill.**
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 739– Bolts (Crown-Bar)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

## 740–Bolts (Cultivator Point)

**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**

## 741– Bolts (Cupboard)

Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 742–Bolts (Door & Window)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
**Champion Safety Lock Co. (Mortise Door), Geneva, O.**
Clark, H. E. & Bros. ("Safety Door"), Rochester, N. Y.
**Corbin Cabinet Lock Co. (Double Door, etc.), New Britain, Conn.**
Griffin Mfg. Co., Erie, Pa.
Ives, Hobart B. Co., New Haven, Conn.
Norwalk Lock Co., So. Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Sons (Fire Door), 1934 N Front, Phila., Pa.
**Pullman Mfg. Co., Rochester, N. Y.**
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Sargeant & Greenleaf Co. ("The Gem"), 178 Court, Rochester, N. Y.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Taylor & Boggis Foundry Co., Cleveland, O.
Yale & Towne Mfg. Co., 9 Murray, New York

## 743– Bolts (Drift)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Columbus Bolt Works, Columbus, O.
Farrington, H., 45 B'way, New York
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Illinois Bolt, Nut & Forging Co., 35th & Ashland av. Chicago, Ill.
Jones & Laughlin Steel Co. (Round & Square), Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**National Supply Co., Baltimore, Md.**
New Castle Forge & Bolt Co., New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
**Oliver Iron & Steel Co., Pittsburg, Pa.**
Pittsburgh Rivet Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
**Rockford Bolt Co., Rockford, Ill.**
St. Louis Screw Co., St. Louis, Mo.
**Scranton Bolt & Nut Co., Scranton, Pa.**
Severence, S. Mfg. Co., Pittsburg, Pa.

## 743a– Bolts (Duplex Twin)

**STAR EXPANSION BOLT CO. ("Sebco"),** 147 Cedar, New York. (See adv. index & branch offices, end of book)

## Bolts (Elevator)

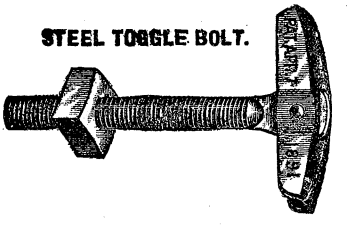
(See Bolts, Belt & Elevator)

## 744– Bolts (Expansion)

Boone Expansion Bolt Works ("Boone"), Port Richmond, New York
Brohard Co., 3rd & Lehigh, Phila., Pa.
**CHURCH, ISAAC, South Norwalk, Conn.** (See adv. index, end of book)
**DIAMOND EXPANSION BOLT CO** ("Diamond," "Diamond H" & "Keystone," Brass & Iron), 90 West, New York. (See adv. index & branch offices, end of book)
Evans, F. H. ("Crescent"), Brooklyn, N. Y.
**Farrington, H., 45 B'way, New York**
**McCABE HANGER MFG. CO., 425 W. 25th, New York.** (See adv. index, end of book)


**PHILADELPHIA EXPANSION BOLT CO.**

**STEEL TOGGLE BOLT.**



**The Steward & Romaine Mfg. Co.**

Manufacturers of Double and Single

**Expansion and Toggle Bolts**

For Fastening all kinds of Materials to Stone and Brick Work.

**No. 124 NORTH SIXTH STREET PHILADELPHIA, PA.**



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Seaman, A. C. 1638 Hutchinson, Phila., Pa.
**STAR EXPANSION BOLT CO. ("Star"** & "Sebco", All Kinds), 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.** (For Concrete), 124 N 6th, Phila., Pa. (See adv. index, end of book)

## 744a–Bolts (Expansion, Brass)

**STAR EXPANSION BOLT CO., 147** Cedar, New York. (See adv. index & branch offices, end of book)

## 745–Bolts (Expansion, for Concrete Work)

**CHURCH, ISAAC, South Norwalk, Conn.** (See adv. index, end of book)
**DIAMOND EXPANSION BOLT CO.** "Diamond," "Diamond H" & "Keystone", 90 West, New York. (See adv. index & branch offices, end of book)
**STAR EXPANSION BOLT CO., 147** Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO., 124 N 6th, Phila., Pa.** (See adv. index, end of book)

## 746–Bolts (Expansion, Single & Double)

**CHURCH, ISAAC, South Norwalk, Conn.** (See adv. index, end of book)
**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.,** 124 N 6th, Phila., Pa. (See adv. index, end of book)

## 747– Bolts (Extension)

**Yale & Towne Mfg. Co., 9 Murray, New York**

## Bolts (Eye)

(See Bolts, Hook & Eye)

## 748– Bolts (Forged)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Billings & Spencer Co., Hartford, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Harris, Wm. & Son Co. (Special), N. S. Pittsburg, Pa.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.
Page-Storms Drop Forge Co., Chicopee, Mass.

## 749– Bolts (Foundation)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**CHURCH, ISAAC (Expansion), South Norwalk, Conn.** (See adv. index, end of book)
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Fort Pitt Forge Co. 26th & Liberty, Pitts-
Graham Nut Co., Pittsburg, Pa. burg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Matthew & Sons, Pittsburg, Pa.
Metropolitan Bolt Co., Boston, Mass.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**National Supply Co., Baltimore, Md.**
New Caste Forge & Bolt Co., New Castle, Pa.
**Old Dominion Iron & Nail Works Co., Richmond, Va.**
Oliver Iron & Steel Co., Pittsburg, Pa.
Penn Iron Co., Lancaster, Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
**Pittsburgh Rivet Co., 38th & Junction R. R., Pittsburgh, Pa.**
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Youngstown, O.
Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.
**STAR EXPANSION BOLT CO., 147** Cedar, New York. (See adv. index & branch offices, end of book)
Wrigley, Thos. Co., 88 Michigan av, Chicago, Ill.

## 750– Bolts (Galvanized)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Hoopes & Townsend Co., Philadelphia, Pa.
Hubbard & Co., Pittsburg, Pa.
Lamson & Sessions Co., Cleveland, O.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.
**Rockford Bolt Co., Rockford, Ill.**
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**

## 751– Bolts (Hanger)

**American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.**
**Central City Bolt Co., Syracuse, N. Y.**
**Clark Bros. Bolt Co., Milldale, Conn.**
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Lake Erie Iron Co., Schofield bldg., Cleveland,
**Lamson & Sessions Co., Cleveland, O. Ohio**
New England Bolt & Steel Co., Everett, Mass.
**Old Dominion Iron & Nail Works Co., Richmond, Va.**
**Pawtucket Mfg. Co., Pawtucket, R. I.**
**Reed & Prince Co., Worcester, Mass.**
**Rockford Bolt Co., Rockford, Ill.**
Scranton Bolt & Nut Co., Scranton, Pa.
**STAR EXPANSION BOLT CO., 147** Cedar, New York. (See adv. index & branch offices, end of book)
Vandegrift & Morris, Shelbyville, Ind.

## 752– Bolts (Harvey Grip)

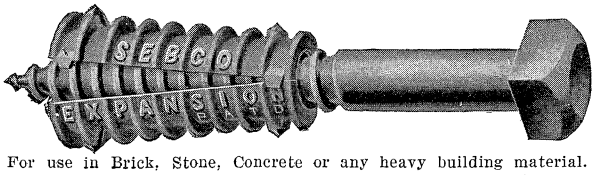
American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**Kansas City Bolt & Nut Co., Kansas City, Mo.**
Lake Erie Iron Co., Cleveland, O.

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# SEBCO PRODUCTS

## FOR EVERY CONCEIVABLE PURPOSE OF FIXTURE FASTENING

**SEBCO EXPANSION BOLT**



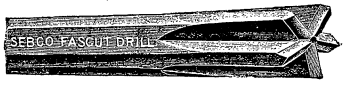

For use in Brick, Stone, Concrete or any heavy building material.

**SEBCO SCREW ANCHOR**



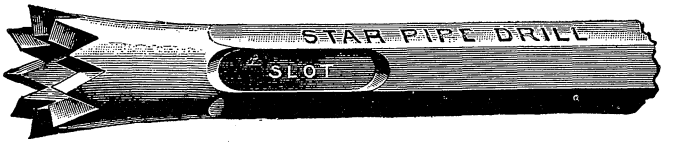

For lighter work in Tiling, Slate, Granite, Marble, etc.

**SEBCO FASCUT DRILL**



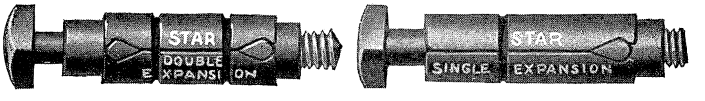

A five-pointed Stone Drill—quicker, lighter and more efficient.

**STAR PIPE DRILL**



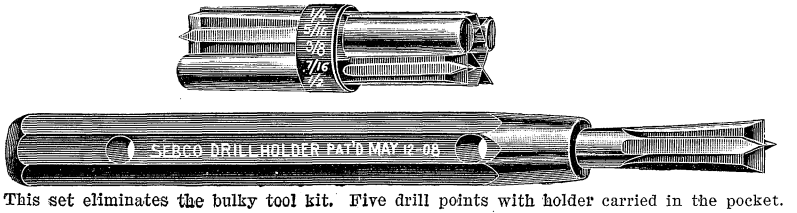

Very efficient in Pipe, etc.; equipped with clearing slot.

**STAR MACHINE EXPANSION BOLTS**



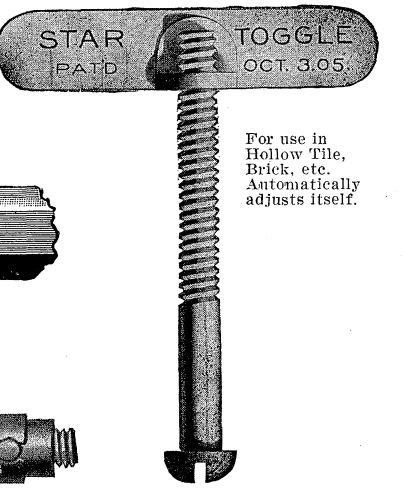

Both single and double types for use in Bronze, Copper and Brass Work.

**STAR DRILL SETS**



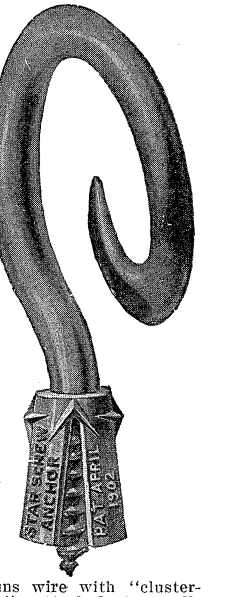

This set eliminates the bulky tool kit. Five drill points with holder carried in the pocket.

**STAR TOGGLE BOLT**



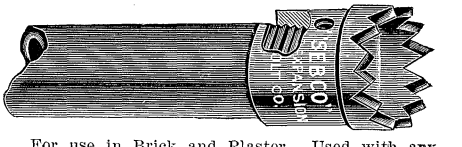

For use in Hollow Tile, Brick, etc. Automatically adjusts itself.

**STAR BRIDLE RING**




Runs wire with "clustering" attached to walls of Stone, etc., by Sebco Screw Anchors.

**SEBCO EXTENSION DRILL**




For use in Brick and Plaster. Used with any piece of pipe.

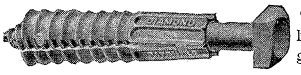
**Write for Free Samples of the Sebco Cable Clamp, Sebco Screw Anchor, Star Expansion Bolt and Star Bridle Ring and Catalogue No. 100**

# STAR EXPANSION BOLT CO.

**Catalogue Dept. 100** **147-149 Cedar Street, New York**

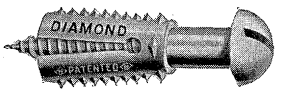
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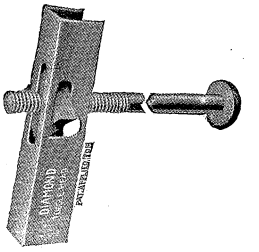
# EXPANSION BOLTS AND ANCHORAGES FOR EVERY REQUIREMENT



**"DIAMOND N" Two Part Expansion Shields** have increased holding power on account of the corrugated ribbed exterior surface.

**DIAMOND SCREW ANCHOR;** new bulb slot pattern. With the roughened outside surface and extreme inner end expansion will hold where other fastenings will not and without danger of cracking the wall.




**DIAMOND TOGGLE BOLT**
An ordinary stove bolt nut is inserted in the slot as shown, and when bolt is inserted it is locked into the toggle head. This type of toggle bolt is recommended for its great strength.

## Diamond Expansion Bolt Co.

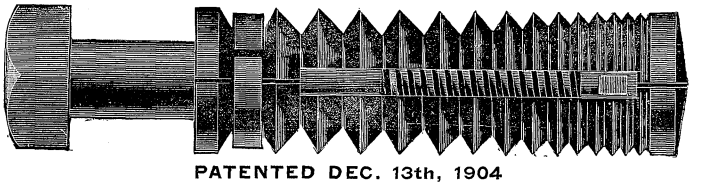
MANUFACTURERS OF DIAMOND SPECIALTIES.

**90 WEST STREET, Corner Cedar, NEW YORK.**

**Factory: Garwood, N. J.**

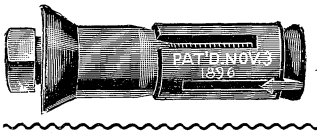
THE BOLT YOU WILL EVENTUALLY USE!

# O. K.



PATENTED DEC. 13th, 1904



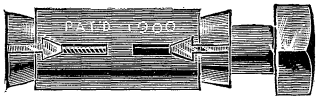



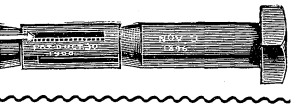

## ISAAC CHURCH

MANUFACTURER OF

## EXPANSION BOLTS

**South Norwalk, Conn.**



# Hendricks' Commercial Register

IS USED FOR

# Purchasing Purposes

BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED


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## 753— Bolts (Hook Head)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Berry Bros., Columbus, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Keystone Drop Forge Works (Weldless), Chester, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Mount Carmel Bolt Co., Mount Carmel, Conn.
Pittsburg Bolt & Screw Co., Pittsburg, Pa.
Pittsburgh Rivet Co., 38th & Junction R. R., Pittsburgh, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Scranton Bolt & Nut Co., Scranton, Pa.
**STAR EXPANSION BOLT CO. ("Star" Expansion)**, 147 Cedar, New York. (See adv. index & branch offices, end of book)
Steel Car Forge Co., Pittsburg, Pa.

## 754— Bolts (Hook & Eye)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Billings & Spencer Co. (Galvanized Drop Forged Eye), Hartford, Conn.
Cambria Steel Co. (Forged Steel), Johnstown, Pa.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Samuel Sons (Forged), 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Jenckes, E. Mfg. Co. (Wrought), Worcester, Mass.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Keystone Drop Forge Works (Drop Forged) Chester, Pa.
Lake Erie Iron Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanz, Matthew & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Page-Storms Drop Forge Co. (Weldless Drop Forged, Blank or Threaded), Chicopee, Mass.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Youngstown, O.
Rhode Island Tool Co. (Blank or Threaded Steel Eye), Providence, R. I.
Rockford Bolt Co. (Forged), Rockford, Ill.
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co. (Screw), Worcester, Mass.
**STAR EXPANSION BOLT CO. ("Star" Expansion)**, 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.**, 124 N 6th, Phila., Pa. (See adv. index. end of book)
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Vaughn & Bushnell Mfg. Co. (Drop Forged Eye), 2130 Carroll av, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.
Wilcox, D. Mfg. Co. (Drop Forged Eye), Mechanicsburg, Pa.
Williams, J. H. & Co. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y.

## 755—Bolts (Insulated Suspension)

Cutter, Geo. Co. ("Cutters"), South Bend, Ind.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 756— Bolts (Key)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kropp, A. & Co., 52 Law av, Chicago, Ill.
Lamson & Sessions Co., Cleveland, O.
Michigan Nut & Bolt Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Rhode Island Tool Co., Providence, R. I.
Rockford Bolt Co., Rockford, Ill.
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.

## 757— Bolts (King)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**DETROIT SCREW WORKS (Hardened & Ground Automobile)**, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

## 758— Bolts (Loom)

Boston Bolt & Iron Co., Boston, Mass.
Clark Bros. Bolt Co., Milldale, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Rhode Island Tool Co., Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

## 759— Bolts (Machine)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
American Machine Co., Birmingham, Ala.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Armstrong & Parker, 361 North, Baltimore, Md.
**ATLAS BOLT & SCREW CO., Marquette, opp Hamilton av, N E, Cleveland, O.**
Ballard Drop Forge Co., Ballard, Seattle, Wash.
Berry Bros., E 1st av & R. R., Columbus, O.
Boston Bolt & Iron Co., Boston, Mass.
Buffalo Bolt Co., North Tonawanda, N. Y.
Cambria Steel Co., Johnstown, Pa.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Colorado Fuel & Iron Co., Denver, Colo.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Dietrich Bros., 344 North, Baltimore, Md.
Eastern Bolt & Nut Co., Providence, R. I.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Gaskell, Wm. & Son, 59 Freeman, Brooklyn, N. Y.
Graham Mfg. Co., Cleveland, O.
Graham Nut Co., Pittsburg, Pa.
Greenlie, Wyatt & Co., 499 Water, New York
Hall's, Samuel Sons, 229 W 10th, New York
**HAMMACHER, SCHLEMMER & CO.** (Jobbers), 133 4th av, New York. (See adv. index, end of book)
Haskell, W. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Illinois Bolt, Nut & Forging Co. (Large), 35th & Ashland av, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.
Lake Erie Iron Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanz, Matthew & Sons, Pittsburg, Pa.
Lorain Steel Co., Johnstown, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
National Supply Co., Baltimore, Md.
Neely Nut & Bolt Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Penn Iron Co., Lancaster, Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Youngstown, O.
Reynolds & Co., New Haven, Conn.
Rhode Island Tool Co., Providence, R. I.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Shelton Co., Shelton, Conn.
Smith, Thomas & Co., Worcester, Mass.
**SONNENSCHEIN, JACOB (Mfrs. Agt.), 14 W 8th, New York.** (See adv. index, end of book)
**STAR EXPANSION BOLT CO. (Also "Star" Expansion)**, 147 Cedar, New York. (See adv. index & branch offices, end of book)
Steel Car Forge Co., Pittsburg, Pa.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## 760— Bolts (Mooring)

**STAR EXPANSION BOLT CO. ("Star" Expansion)**, 147 Cedar, New York. (See adv. index & branch offices, end of book)
Western Automatic Machine Screw Co., Elyria, Ohio

## 761— Bolts (Neck)

National Screw & Tack Co. ("O. H. Fin"), Cleveland, O.
**STANLEY WORKS (Wrought Steel), New Britain, Conn.** (See adv. index & branch offices, end of book)

## 762—Bolts (Nut & Screw Ring)

Wilcox, Crittenden & Co., Middletown, Conn.

## 763— Bolts (Planer Head)

Anthony Screw Co., Worcester, Mass.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Niagara Screw Co., Buffalo, N. Y.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
St. Louis Screw Co., St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.
Western Automatic Mach. Screw Co., Elyria, O.

## 764— Bolts (Plow)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Supply Co., Baltimore, Md.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Republic Iron & Steel Co., Youngstown, O.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Shelton Co., Shelton, Conn.
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

764a— BOLTS (ROOF)

## 764a— Bolts (Roof)

## 765—Bolts (Screw & Nut Eye)

Wilcox, Crittenden & Co., Middletown, Conn.

## 766— Bolts (Shackle)

Blakeslee Forging Co. (Milled), Plantsville, Conn.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.

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**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich, (See adv. index end of book)
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
**Lamson & Sessions Co., Cleveland, O.**
Moore, Franklin Co., Winsted, Conn.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Western Automatic Machine Screw Co., Elyria, Ohio

## 767— Bolts (Shaft)

Columbus Bolt Works (T Head Shaft), Columbus, O
Corbin Screw Corporation (Reverse Helicoid) New Britain, Conn
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.

## 768— Bolts (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
**Russell & Erwin Mfg. Co., New Britain, Conn.**
**Sargent & Co., New Haven, Conn.**
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Wrightsville Hardware Co., Wrightsville, Pa.

## 769— Bolts (Sink)

**American Screw Co., Providence, R. I.**
**ATLAS BOLT & SCREW CO. (Iron & Brass),** Marquette, opp Hamilton av, N E, Cleveland, O.
Berry Bros., E 1st av & R. R., Columbus, O.
Boston Bolt & Iron Co., Boston, Mass.
Central Foundry Co., 90 West, New York
Columbia Screw Co., Pullman, Chicago, Ill.
**Columbus Bolt Works, Columbus, O.**
Corbin Screw Corporation, New Britain, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
**Kirk-Latty Mfg. Co., Cleveland, O.**
**Lamson & Sessions Co., Cleveland, O.**
National Screw & Tack Co., Cleveland, O.
**New England Bolt & Steel Co., Everett, Mass.**
Progressive Mfg. Co., Torrington, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.
Reynolds & Co., 321 East, New Haven, Conn
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Shelton Co. (Iron & Brass), Shelton, Conn.
**SONNENSCHEIN, JACOB (Mfrs. Agt.),** 14 W 8th, New York. (See adv. index, end of book)
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## 770— Bolts (Sleigh Shoe)

**ATLAS BOLT & SCREW CO., Cleveland, O.**
Berry Bros., E 1st av & R. R., Columbus, O.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation (Plain & Reverse Helicoid), New Britain, Conn.
**Falls Rivet & Machine Co., Cuyahoga Falls, O.**
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Lake Erie Iron Co., Cleveland, O.
**Lamson & Sessions Co., Cleveland, O.**
Michigan Bolt & Nut Works, Detroit, Mich.
Moore, Franklin Co., Winsted, Conn.
Republic Iron & Steel Co., Youngstown, O.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Russell & Erwin Mfg. Co. (Helicoid), New Britain, Conn.
Shelton Co., Shelton, Conn.

## 771— Bolts (Socket)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

## 771a—Bolts (Split Pipe, Expansion)

**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 772—Bolts (Steering Knuckle)

Peninsular Milled Screw Co., Detroit, Mich.

## 773— Bolts (Stove)

American Screw Co., Providence, R. I.
**ATLAS BOLT & SCREW CO.,** Marquette, opp Hamilton av, N E, Cleveland, O.
Berry Bros., Columbus, O.
Boston Bolt & Iron Co., Boston, Mass.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Fanner Mfg. Co., Cleveland, O.
Hazel Atlas Glass Co., Wheeling, W. Va.
Kirk-Latty Mfg. Co., Cleveland, O.
**Lamson & Sessions Co., Cleveland, O.**
**MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa.** (See adv. index & branch offices, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Lock Co., Rockford, Ill.
National Screw & Tack Co., Cleveland, O.
New Castle Forge & Bolt Co., New Castle, Pa.
Ohio Nut & Bolt Co., Berea, O.
Reading Screw Co. (Also Nickel Plated), Norristown, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Republic Iron & Steel Co., Youngstown, O.
Reynolds & Co., New Haven, Conn.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
St. Louis Screw Co., St. Louis, Mo.
Shelton Co. (Iron & Brass), Shelton, Conn.
**SONNENSCHEIN, JACOB (Mfrs. Agt.),** 14 W 8th, New York. (See adv. index, end of book)
Troy Nickel Works (Jno. E. Gaitley, Prop.), Albany, N. Y.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## 774— Bolts (Strap)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Simmons & Sons, Spokane, Wash.

## 775— Bolts (Stud)

Aetna Nut Co., Southington, Conn.
American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index end of book
Eastern Bolt & Nut Co., Providence, R. I.
Electric Welding Products Co., Cleveland, O
Garland Nut & Rivet Co., Pittsburg, Pa.
Greenlie, Wyatt & Co., 499 Water, New York
Hall's, Samuel Sons, 229 W 10th, New York
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoopes & Townsend Co., 1330 Buttonwood Philadelphia, Pa
Kansas City Bolt & Nut Co., Kansas City, Mo.
**Lamson & Sessions Co., Cleveland, O.**
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
**New England Bolt & Steel Co., Everett, Mass.**
Pawtucket Mfg. Co., Pawtucket, R. I.
Phila. Machine Screw Works, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Youngstown, O.
Reynolds & Co., 321 East, New Haven, Conn.
Rhode Island Tool Co., Providence, R. I.
**Rockford Bolt Co., Rockford, Ill.**
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.
St. Louis Screw Co., St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland Ohio
Western Automatic Mach. Screw Co., Elyria, O

## 776— Bolts (Swing or Eye)

Jenckes, E. Mfg. Co. (Wrought), Worcester, Mass.

## 777— Bolts (Tap)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Boston Bolt & Iron Co., Boston, Mass.
Central City Bolt Co., Syracuse, N. Y.
**Clark Bros. Bolt Co. (& Set-Screws), Milldale,**
Columbus Bolt Works, Columbus, O. Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Greenlie, Wyatt & Co., 499 Water, New York
**Hall's, Samuel Sons, 229 W 10th, New York**
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
**Michigan Bolt & Nut Works, Detroit, Mich.**
Milton Mfg. Co., Milton, Pa.
National Supply Co., Baltimore, Md.
New England Bolt & Steel Co., Everett, Mass.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Youngstown, O.
Reynolds & Co., New Haven, Conn.
Rhode Island Tool Co., Providence, R. I.
**Rockford Bolt Co., Rockford, Ill.**
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio

## 778— Bolts (Tee Head)

**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Pittsburgh Rivet Co., Pittsburgh, Pa.

## 779— Bolts (Thumb)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Hall's, Samuel Sons, 229 W 10th, New York
National Supply Co., Baltimore, Md.
**Rockford Bolt Co., Rockford, Ill.**
St. Louis Screw Co., St. Louis, Mo.
Western Automatic Machine Screw Co., Elyria, Ohio

## 780— Bolts (Tire)

American Screw Co. (Fluted), Providence, R. I.
**ATLAS BOLT & SCREW CO., Marquette, opp Hamilton av, N E, Cleveland, O.**
Berry Bros., Columbus, O.
Boston Bolt & Iron Co., Boston, Mass.
**Central City Bolt Co., Syracuse, N. Y.**
Clark Bros. Bolt Co., Milldale, Conn.
**Columbus Bolt Works, Columbus, O.**
Corbin Screw Corporation, New Britain, Conn.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Frost, L. D., Marion, Conn.
**Haydon, A. & M., 304 N 22d, Phila., Pa.**
Hoopes & Townsend Co., 1330 Buttonwood, Kirk-Latty Mfg. Co., Cleveland, O. Phila., Pa.
Lake Erie Iron Co., Cleveland, O.
**Lamson & Sessions Co., Cleveland, O.**
**Michigan Bolt & Nut Works, Detroit, Mich.**
National Screw & Tack Co., Cleveland, O.
**New England Bolt & Steel Co., Everett, Mass.**
Ohio Nut & Bolt Co., Berea, O.
Reading Screw Co., Norristown, Pa.
Reed & Prince Mfg. Co., Worcester, Mass
Republic Iron & Steel Co., Youngstown, O.
Richards, T. C. Hardware Co., Winsted, Conn.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co. ("Bull Dog"), Port Chester, N. Y., & Rock Falls, Ill.
Russell & Erwin Mfg. Co., New Britain, Conn.
Shelton Co., Shelton, Conn.
Skelly, Thos. P. & Co., 24th nr Carleton, Philadelphia, Pa.
Upson Nut Co. (Common & "Philadelphia"), Unionville, Conn., & Cleveland, O.

## 781— Bolts (Toggle)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Chicago Nut Co. ("Ajax"), 617 Jackson blvd, Chicago, Ill.
**CHURCH, ISAAC, South Norwalk, Conn.** (See adv. index, end of book)
Cutter, Geo. Co. ("Lever"), South Bend, Ind.

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**DIAMOND EXPANSION BOLT CO.** ("Diamond"), 90 West, New York. (See adv. index & branch offices, end of book)
Grabler Mfg. Co., Cleveland, O.
McGill Mfg. Co. ("Crescent"), Valparaiso, Ind.
**STAR EXPANSION BOLT CO. ("Star"** All Kinds), 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.,** 124 N 6th, Phila., Pa. (See adv. index, end of book)
Wrigley, Thos. Co. ("Wrigley," Patented Steel), 88 Michigan av, Chicago, Ill.

## 782—Bolts (Toggle, Boiler Patch)

**STAR EXPANSION BOLT CO., 147** Expansion), 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.** (For Range Boilers), 124 N 6th, Phila., Pa. (See adv. index, end of book)

## 783— Bolts (Track)

American Bolt Co., Birmingham, Ala.
American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Ames, W. & Co., Jersey City, N. J.
**Ballard Drop Forge Co. ("Ballard"), Seattle,** Wash.
Boston Bolt & Iron Co., Boston, Mass.
Cambria Steel Co., Johnstown, Pa.
Colorado Fuel & Iron Co., Denver, Colo.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Hirsch Rolling Mill Co., St. Louis, Mo.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Hubbard & Co., Pittsburg, Pa.
Illinois Steel Co., Com. Nat'l Bank bldg, Chicago, Ill.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Cleveland, O.
**Lamson & Sessions Co., Cleveland, O.**
Lanz, Matthew & Sons, Pittsburg, Pa.
Lorain Steel Co. (With Button Heads & Oval Necks), Johnstown, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
Oliver Iron & Steel Co. (Threads Rolled or Cut in Oil), Pittsburg, Pa.
P. & M. Co. (For Electric Railways), 98 Jackson blvd, Chicago, Ill.
Penn Iron Co., Lancaster, Pa.
Penna. Steel Co. ("Never-Turn"), 1421 Chestnut, Phila., Pa.
**Pittsburg Forge & Iron Co., Pittsburg, Pa.**
Pottsville Bolt Co., Pottsville, Pa.
Republic Iron & Steel Co., Youngstown, O.
**Scranton Bolt & Nut Co., Scranton, Pa.**
Steel Car Forge Co. (Rolled or Cut Thread), Pittsburg, Pa.
Sweet's Steel Co., Williamsport, Pa.
Tredegar Co., Richmond, Va.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## 784—Bolts (Trolley Span, Wire Work)

American Iron & Steel Mfg. Co., Lebanon, Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 785— Bolts ("U")

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Pittsburgh Rivet Co., Pittsburgh, Pa.

## 786— Bolts (Wall Plate)

Church Appliance Mfg. Co. ("Boss"), La Salle, Ill.

## 787—Bolts (Water Closet Indicator)

Edwardsville Brass Co., Edwardsville, Ill.
Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 788— Bolts (Wheel)

**ATLAS BOLT & SCREW CO., Marquette,** opp Hamilton av, N E, Cleveland, O.

## 789— Bolts (Whiffletree)

**Atwater Mfg. Co., Plantsville, Conn.**
Columbus Bolt Works, Columbus, O.
Lamson & Sessions Co., Cleveland, O.
Moore, Franklin Co., Winsted, Conn.
**Rockford Bolt Co., Rockford, Ill.**
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
**Scranton Bolt & Nut Co., Scranton, Pa.**
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## Bolts (Window)

(See Bolts, Door & Window)

## 790— Bone-Ash

Denver Fire Clay Co., Denver, Colo.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Heil, Henry Chemical Co. (Imported), St. Louis, Mo.
**Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.**

## 791— Bone Black

(See also Rawbone, Granulated)

American Agricultural Chemical Co., 2 Rector, New York
Baker, H. J. & Bro. (Discard, Dissolved, etc.), 100 William, New York
Barker Chemical Co., Savannah, Ga.
**Baugh & Sons Co., 25 S Calvert, Baltimore, Md.**
Binney & Smith Co. (& Blacks of Every Description), 81 Fulton, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
**Empire Carbon Works, St. Louis, Mo.**
Lister Agricultural Chemical Works, 2 Rector, New York
Michigan Carbon Works, Detroit, Mich.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Seaver & Co., 120 Milk, Boston, Mass.
Standard Guano & Chemical Mfg. Co., New Orleans, La.

## 792— Bone Dealers

Baker, H. J. & Bro. (Rough & Ground), 100 William, New York
Brand, Herman, 404 E 48th, New York
Dold, Jacob, Packing Co. (Steamed Bone), Buffalo, N. Y., & Wichita, Kan.
Hollingshurst & Co. (Importers), 68 Beaver, New York
Pittsburg Provision & Packing Co. (Sawed, etc.), Pittsburg, Pa.
White, Thos. H. & Co., Baltimore, Md.

## 793— Bone-Meal

(See also Bone-Black; also Rawbone, Granulated)

Akron Fertilizer Co., Akron, O.
American Agricultural Chemical Co., 2 Rector, New York
Armour Fertilizer Works, Chicago, Ill.
Baker, H. J. & Bro. (Importers of Calcutta, Bombay, etc.), 100 William, New York
Binney & Smith Co. (For Case Hardening), 81 Fulton, New York
Cooper's, Peter Fertilizer Works, 111 B'way, New York
Hawaiian Fertilizer Co., Honolulu, H. I.
Heller, Hirsh & Co. (Importers), 62 William, New York
Hollingshurst & Co. (Raw), 68 Beaver, New York
Munro, Robt. A. & Co. (Importers), 31 Liberty, New York
Pittsburg Provision & Packing Co. (Raw), Pittsburg, Pa.
Standard Guano & Chemical Mfg. Co. (Pure Ground Bone), New Orleans, La.
Swift & Co., Union Stock Yards, Chicago, Ill.
Virginia-Carolina Chemical Co., Richmond, Va.
White, Thos. H. & Co. (Importers), Baltimore, Md.
York Chemical Works, York, Pa.

## 794—Book Case Fronts (Flexible)

**Grant Pulley & Hardware Co. ("Flexifold"), 3 W 29th, New York**

## 795— Book Cases

**Aimone Mfg. Co. (Combination), 430 E 23d, New York**
Andrews, A. H. Co. (Combination, Revolving & Sectional), 174 Wabash av, Chicago, Ill.
**Automatic File & Index Co. (Sectional), Green Bay, Wis.**
**Buchanan Cabinet Co. (Revolving), Buchanan, Mich.**
Camden Cabinet Co. (Sectional), Camden, N. Y.
**Casler, P. W. Mfg. Co. (Sectional), Little Falls, N. Y.**
**Conrey, D. L. Furniture Co. (Combination), Shelbyville, Ind.**
**Co-Operative Furniture Co. (Combination),** Rockford, Ill.
Danner, John Mfg. Co. (Sectional), Canton, O.
Diven Mfg. Co. (Sectional), Elmira, N. Y.
Dornette, J. & Bro. (Sectional), Cincinnati, O.
**Evansville Bookcase & Table Co. (Combination), Evansville,** Ind.
Globe-Wernicke Co. (Sectional), Cincinnati, O.
**Grand Rapids Book Case Co., Hastings, Mich.**
**Gunn Furniture Co.** (Sectional), Grand Rapids, Mich.
Hale, F. E. Mfg. Co. (Sectional), **Herkimer, N. Y.**
Humphrey-Widman Sectional Book Case Co., (Sectional), Detroit, Mich.
**Ideal Desk Extension Co.** (Sectional Folding), Auburn, Me.
Library Bureau (Sectional), 530 Atlantic av, **Boston, Mass.**
Lundstrom, C. J. Mfg. (Sectional), Little Falls, N. Y.
**Macey Co. (Sectional), Grand Rapids, Mich.**
McNown Mfg. Co. (Revolving), Columbia City, Ind.
Rockford Book Case Co., Rockford, Ill.
Rockford Standard Furniture Co. (Combination), **Rockford, Ill.**
Sargeant Mfg. Co. (Revolving), Muskegon, Mich.
Skandia Furniture Co. ("Viking"), **Rockford, Ill.**
Weis Mfg. Co. ("Weis" Sectional), **Monroe, Mich.**

## 796—Book Lifts (Electric)

**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)

## Book Stacks (Fire-Proof)

(See Library Shelving & Fittings, Metallic)

## 797— Boosters (Electric)

Triumph Electric Co., Cincinnati, O.

## 798— Boosters (Gas)

**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## 798a—Booths (Moving Picture Machine)

**JOHNS, H. W.-MANVILLE CO. ("J-M" Transite,** Asbestos, Wood & Cloth), 100 William, New York. (See adv. index & branch offices, end of book)

## 799— Boots (Elevator)

American Machinery & Construction Co., Milwaukee, Wis.
Barnard & Leas Mfg. Co. ("Perfection," etc., Iron or Wood), Moline, Ill.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland O. (See adv. index & branch offices, end of book)
**CALDWELL, H. W. & SON CO. ("Caldwell" Self-Oiling, etc.), 17th & Western av, Chicago, Ill.** (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Eagle Foundry & Machine Co., Fort Scott, Kan.
**GRAVER, WM. TANK WORKS, East** Chicago, Ill. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Marseilles Mfg. Co., East Moline, Ill.
**MINNEAPOLIS STEEL & MACHINE**ry Co. (Wood, Steel & Cast Iron), **Minneapolis, Minn.** (See adv. index & branch offices, end of book)
**Moore & Lorenz Co., 816 Fulton, Chicago, Ill.**
Nordyke & Marmon Co., Indianapolis, Ind.
Power & Mining Machinery Co., Cudahy, Wis.
Skillin & Richards Mfg. Co., 46th av & Courtland, Chicago, Ill.
Specialty Engineering Co., Emerald & Cornwall, Phila., Pa.
**STANDARD SAND & MACHINE CO., 5157 St. Clair, Cleveland, O.** (See adv. index, end of book)

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Walker & Elliott ("Wood & Iron"), Wilmington, Del.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E. North** av, Chicago, Ill. (See adv. index, end of book)

## 800— Boots (Lawn)

Gregg Mfg. Co. ("Phillips" for Horses), 1318 W 4th, Cleveland, O.

## 801—Boots (Leather, Wooden Sole)

Riemer, Albert H. Shoe Co., Milwaukee, Wis.

## 802—Boots (Rubber, Leather Sole)

Rubberhide Co. ("Rubberhide"), Boston, Mass.

## 803—Boots (Sewer Connection)

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CANTON MFG. CO. (Cast Iron),** Canton, O. (See adv. index, end of book)

## 804— Borax

Croton Chemical Co. (Refined), 14 Cedar, New York
Denver Fire Clay Co. (Glass), Denver, Colo.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Heil, Henry Chemical Co. (Borax Glass), St. Louis, Mo.
Mallinckrodt Chemical Works, St. Louis, Mo.
Pacific Coast Borax Co. (Refined), Oakland, Cal.
Pfizer, Chas. & Co. (Crystals, Powdered & Granular), 81 Maiden la, New York
Rhodes Salt & Borax Co., San Francisco, Cal.
Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 805—Borax Powder for Annealing, Etc.

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
McIlvaine Bros., 1500 Hamilton, Phila., Pa.

## 806— Borers (Bung Hole)

**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, Fulton & Sangamon, Chicago, Ill. **(See adv. index, end of book)**
**Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.**
Redlich Mfg. Co., 637 W Oak, Chicago, Ill.
Southington Mfg. Co., Southington, Conn.
**Swan, Jas. Co. (Graduated & Ring), Seymour, Conn.**
**United States Bung Mfg. Co. ("Kirby"),** 48 S 2d, Brooklyn, N. Y.
**White, L. & I. J. Co. ("Philadelphia," "Kirby"),** Buffalo, N. Y.

## 807—Borers (Ratchet Corner)

Millers Falls Co., 28 Warren, New York.

## 808— Borers (Tap)

**BERNZ, OTTO, 21 Ashland av, Newark,** N. J. (See adv. index, end of book)
**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)**
Johnson, Wm. (Hedenberg Wks.). Newark, N. J.
Lowentrout, P. Mfg. Co. ("W-S"), Newark, N. J.
Osborne, C. S. & Co., Newark, N. J.
Sayre, L. A. & Co., Newark, N. J.
Southington Mfg. Co., Southington, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 809— Bortz

**Bandler, Bernard & Son (Also Black Diamonds for Diamond Drills & All Mechanical Purposes),** 65 Nassau, New York
Dessau, David & Bros. (Also Black Diamonds for Diamond Drills & All Mechanical Purposes), 180 B'way, New York
**Mendes Cutting Factories (For Diamond Saws),** 14 John, New York
**MEYERS, WILLARD F. (Or African** Diamonds), 342 Vernon av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 810— Boshes (Mechanical)

Heyl & Patterson, Pittsburg, Pa.
Meehan Boiler & Const. Co., Lowellville, O.

## 811—Bottle Fillers (Milk, Etc.)

Champion Milk Cooler Co., Cortland, N. Y.
Creamery Package Mfg. Co., 61 W Kinzie, Chicago, Ill.
Edson Mfg. Co., Boston, Mass.

## 811a—Bottle Rack (Hollow Tile)

**MAURER, HENRY & SON, 420 E 23d,** New York; Penna. bldg, Phila., Pa. Works: Maurer, N. J. (See adv. Inside Front Cover)

## Bottle Wrappers (Corrugated)

**(See Paper, Corrugated)**

## 812—Bottles (Fibre Covered)

Fibre Covered Bottle Co., East Stroudsburg, Pa.

## 813— Bottles (Glass)

### CALIFORNIA.

LOS ANGELES—Quartz Glass & Mfg. Co. (Soda, Beer, Wine, Prescription, etc.)
SAN FRANCISCO—Illinois-Pacific Glass Co.

### COLORADO.

DENVER—Western Glass Mfg. Co. (Prescription, Beer, Wine, Soda, Medicine, Preservers' & Packers')

### GEORGIA.

TALLAPOOSA—Tallapoosa Glass Mfg. Co. (Prescription, Beer, Soda, Brandy, Medicine, etc.)

### ILLINOIS.

ALTON—Illinois Glass Co. (Prescription, Druggists', Beer, Wine, Soda, Mineral Water, etc.)
BELLEVILLE—American Bottle Co. (See Chicago, Ill.)
CHICAGO—American Bottle Co., 1st Nat'l B'k bldg. Works, Newark, O., & Belleville, & Streator, Ill.
Illinois Glass Co., 208 Randolph (See Alton, Ill.)
Western Bottle Mfg. Co., 210 Randolph
DANVILLE—Headley Glass Works
EAST ST. LOUIS—Obear-Nester Glass Co. (See St. Louis, Mo.)
HILLSBORO—Schram Automatic Sealer Co. (See St. Louis, Mo.)
STREATOR—American Bottle Co. (See Chicago, Ill.)
Thatcher Mfg. Co.

### INDIANA.

ANDERSON—Pennsylvania Glass Co. (Prescription, Druggists')
CICERO—Indiana Bottle & Glass Co.
DALEVILLE—Daleville Glass Co. (Prescription, Druggists', Preservers', Packers')
DUNKIRK—Maring Hart & Co. (Beer, Soda, Wine, Brandy, Preservers', Packers')
EATON—Western Flint Glass Co.
GAS CITY—Thompson Bottle Co. (Prescription, Beer, Wine, Soda, Brandy, Proprietary Medicine, Packers' & Preservers')
U. S. Glass Co. (See Pittsburg, Pa.)
GREENFIELD—Ball Bros. Glass Mfg. Co. (See Muncie, Ind.)
INDIANAPOLIS—Fairmount Glass Works (Flint, Amber, Green & Blue)
HARTFORD CITY—Hartford City Flint Glass Co. (Prescription, Beer, Wine, Soda, Brandy), Works: Mt. Vernon, O.
KOKOMO—Jenkins. D. C. Glass Co. (Milk,
LAPEL—Lapel Bottle Co. Cherry & Olive)
LOOGOOTEE—Southern Indiana Glass Works (Packers', Preservers')
MARION—Ball Bros. Glass Mfg. Co. (See Muncie, Ind.)
Marion Flint Glass Co. (Prescription, Wine, Beer, Soda, Packers', Preservers')
Standard Glass Co.
MUNCIE—Ball Bros. Glass Mfg. Co. Works, Marion, Ind., & Coffeyville, Kansas)
Boldt, Chas. Co. (See Cincinnati, O.)
Muncie Glass Co.
SHIRLEY—Indiana Bottle Co. (Prescription, Packers', Preservers')
SUMMITVILLE—Model Glass Works (Prescription & Druggists')
TERRE HAUTE — North Baltimore Bottle Glass Co. (Beer, Soda, Wine, Brandy, Root Glass Co. (Beer, Soda, Liquor) etc.)
Turner Bros. Co. (Flint & Amber)
WINCHESTER—Woodbury Glass Co. (Flint Brandy, Machine Oil, Manganese, Blueing, Screw Cap, etc., also Flasks)
YORKTOWN—Skillin-Goodin Glass Co. (Catsup, Condiment, Prescription, Extract, Pickle)

### KANSAS.

COFFEYVILLE—Ball Bros. Glass Mfg. Co.
Premium Glass Co.
NEODOSHA—Neodosha Bottle & Glass Co. (Prescription, Beer, Soda, Wine & Brandy)

### MARYLAND.

BALTIMORE—Baker Glass Co.
Buck Glass Co. (All Kinds of Hand & Machine Blown Flint Glass Bottles)
**Carr-Lowery Glass Co. (Prescription, Beer, Wine, Soda, Packers' Brandy & Preservers')**
Swindell Bros. (Druggists', Chemists', Perfumery Green Amber)
**MOUNT WINANS—Maryland Glass Corporation**

### MISSOURI.

ST. LOUIS—Busch, Adolphus Glass Mfg. Co. (Beer)
Obear-Nester Glass Co. (Works: East St. Louis, Ill.)
**Schram Automatic Sealer Co.** (Works: Hillsboro, Ill.)

### NEW JERSEY.

BRIDGETON—Bridgeton Glass Co. (Owned by Cumberland Glass Co.)
Cumberland Glass Mfg. Co. (Prescription, Beer, Wine, Brandy, Soda, Packers')
More-Jonas Glass Co. (Prescription, Packers', Preservers')
Parker Bros. Glass Mfg. Co. (Prescription, Beer, Soda, Wine, Brandy, Packers', Preservers')
CAPE MAY COURT HOUSE—Cape May Glass Co.
CLAYTON—Pierce, F. M. & Co. (Prescription, Proprietary Medicine)
GLASSBORO — Whitney Glass Co. (Green, Flint, Prescription, Packers', Preservers')
MEDFORD—Star Glass Co. (Prescription, Beer, Wine, Soda, Brandy)
MILLVILLE—Millville Bottle Co. (Prescription, Proprietary Medicine)
Whitall Tatum Co. (See Phila., Pa.)
MINOTOLA—Jonas, Geo. Glass Mfg. Co. (Beer, Soda, Packers', Preservers', Brandy & Wine)
OLD BRIDGE—Brookfield Glass Co. (See New York City)
SALEM—Gayner Glass Works (Green)
Salem Glass Works (All Kinds)
VINELAND—Vineland Flint Glass Mfg. Co.
WOODBURY — Woodbury Bottle Works (Prescription, Beer, Soda, Wine, Brandy & Packers')

### NEW YORK.

**ALDEN—New York Glass Works (Prescription,** Beer, Wine, Brandy & Soda)
BINGHAMTON—Binghamton Glass Co. (Prescription, Beer, Soda, Wine, Brandy, Packers', Preservers')
CLYDE—Clyde Glass Works
CORNING—Corning Glass Works
ELMIRA—Thatcher Mfg. Co. (Milk, Flint, Glass)
LANCASTER—Industrial Glass Co.
Lancaster Glass Works (Flint Bottles)
LOCKPORT—Lockport Glass Co.
NEW YORK CITY — Boley Mfg. Co. (Works, Olean, N. Y.
Olean Glass Co. (Prescription, Beer, Wine, Soda, Packers', Brandy & Preservers')
PORT JERVIS—Brox & Ryall (Soda, Syrup, Caster)
POUGHKEEPSIE — Poughkeepsie Glass Works (Prescription, Beer, Soda, Mineral Water, Wine, Brandy)
ROCHESTER—Reed, F. E. Glass Co.

### NEW YORK CITY.

#### Boroughs of Manhattan & Bronx.

NEW YORK—Boley Mfg. Co., 414 W 14th; Works: Olean, N. Y.
Bottlers' & Mfrs'. Supply Co., 218 E 37th
**Works: Brooklyn, N. Y., & Old Bridge, N. J.**

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Brookfield Glass Co. (Beer, Wine, Soda, Brandy, Packers', Preservers'), 2 Rector; U. S. Glass Co., 29 Murray (Branch, Pittsburg, Pa.)
Wagner Glass Works (Acid & Skim Milk
OLEAN—Boley Mfg. Co. Test), 697 E 132d

### Borough of Brooklyn.

BROOKLYN—Brookfield Glass Works (See New
Demuth Glass Mfg. Co. York)
Gleason-Tiebout Glass Co.
Williamsburg Flint Glass Co.

### Borough of Queens.

LONG ISLAND CITY—Bottlers' & Mfrs.' Supply Co. (See New York)

## OHIO.

BELLAIRE—Bellaire Bottle Co. (Flint, Prescription & Druggists')
BUTLER—Butler Bottle Co.
CAMBRIDGE—Cambridge Glass Co. (Balsam)
CINCINNATI—Boldt, Chas. Co. (Works: Mun-
COLUMBUS—Federal Glass Co. cie, Ind.)
Winslow Glass Co. (Prescription, Beer, Wine, Soda, Brandy, Packers' & Preservers')
COSHOCTON — Coshocton Glass Co. (Beer, Wine, Soda, Brandy)
MASSILLON—American Bottle Co. (See Chi-
Rhodes Glass & Bottle Co. cago, Ill.
MOUNT VERNON—Essex Glass Co.
Hartford City Flint Glass Co. (See Hartford City, Ind.)
NEWARK—American Bottle Co. (See Chicago, Ill.)
Heisey, A. H. & Co. (Prescription, Drug-
TOLEDO—Owens Bottle Machine Co. gists')
ZANESVILLE — Kearns-Gorsuch Bottle Co. (Mineral Water, Extract, Flint, Liquor, Prescription, Green, Beer, Pickle, etc.)

## PENNSYLVANIA.

ALLENTOWN—Allentown Flint Bottle Co. (Prescription, Wine, Beer, Soda, Brandy, Packers', Preservers')
BEAVER FALLS—Co-Operative Flint Glass Co. (Ltd.)
BRADFORD—Berney-Bond Glass Co.
BROCKWAYVILLE—Brockway Machine Bottle Co. (Machine Made Ink, Mucilage, Vaseline, etc.)
CLARION—Pearl Glass Co. (Prescription, Proprietary Medicine, Packers', Preservers')
EAST DOWNINGTON—Cohansey Glass Mfg. Co. (Beer, Soda, Wine, Brandy, Packers', Preservers')
EAST STROUDSBURG — East Stroudsburg Glass Co. (Beer Soda, Wine, Brandy)
GLASSPORT—U. S. Glass Co. (See Pittsburg,
GLENSHAW—Glenshaw Glass Co. (Inc.) Pa.)
HARRISBURG—Bochelli Non-Refillable Bottle Co.
HAWLEY — Hawley Glass Co. (Beer, Soda, Wine, Packers', Preservers')
JEANETTE—Jeanette Glass Co. (Prescription, Beer, Soda, Wine, Packers')
McKee Glass Co. (Prescription, Druggists')
KANE—Kane Flint Bottle Co. (Prescription, Beer, Soda, Wine, etc.)
Thatcher Mfg. Co. (See Elmira, N. Y.)
McDONALD—Warner Glass Co. (Citrate Magnesia, Panel, Prescription, Perfumery, Vaseline)
PHILADELPHIA—Hero Mfg. Co., Gaul c Adams
PHILADELPHIA—Hero Fruit Jar Co., Gaul c Adams
Star Glass Co., 226 N 4th. (See Medford, N. J.)
Whitall-Tatum Co. Works, Millville, N. J.
Whitney Glass Co., 227 S Front. (See Glassboro, N. J.)
PITTSBURG—Cunningham, D. O. Glass Co. (Beer, Soda Water), Jane & 22d
Flaccus, C. L. Glass Co., Empire bldg
Hamilton, J. T. & A.
U. S. Glass Co. (Prescription, Druggists',) Works, Pittsburg & Glassboro, Pa., & Gas City, Ind.
Wormser Glass Co. (Prescription & Drug-
PORT ALLEGHANY—Olean Glass Co. gists')
ROCHESTER—Rochester Tumbler Works (Water, Bitter, Beer)
ROYERSFORD — Diamond Glass Co. (Soda, Wine, Bitters, Druggists', Beer)
Newborn, W. H. & Co. (Prescription, Beer, Soda, Wine, Packers')
ST. MARYS—Pierce Glass Co. (Prescription, Beer, Soda, Wine, Brandy, etc.
SHARPSBURG—Tibby Bros. Glass Co. (Prescription, Beer, Soda, Wine, Packers')
SHEFFIELD—Sheffield Glass Bottle Co. (Prescription, Wine, Beer, Soda, Brandy, Packers' & Preservers')
SHINGLEHOUSE—Elk Flint Bottle Co. (Beer, Soda, Wine, Brandy, Preservers')
TARENTUM—Fidelity Glass Co. (Prescription, Druggists', Preservers')
Flaccus, C. L. Glass Co. (Flint, Prescription & Druggists')
WASHINGTON — Hazel-Atlas Glass Co. (See Wheeling, W. Va.

## SOUTH CAROLINA.

COLUMBIA—Carolina Glass Co. (Prescription, Beer, Soda, Wine, Brandy)

## TENNESSEE.

CHATTANOOGA—Chattanooga Bottle & Glass Mfg. Co.

## VIRGINIA.

ALEXANDRIA—Alexandria Glass Works (Beer, Soda, Wine, Brandy, Packers', Preservers')
Belle Pre Bottle Co.
Old Dominion Glass Co. (Prescription, Beer, Proprietary Medicine, Wine, Soda, Brandy Packers')
Virginia Glass Co. (Beer, Wine, Soda, Brandy, Preservers', Proprietary Medicine, Packers')
MANCHESTER—Blair Glass Mfg. Co. (Druggists', Chemists')

## WEST VIRGINIA.

CLARKSBURG — Hazel-Atlas Glass Co. (See Wheeling, W. Va.
FAIRMONT—Fairmont Bottle Co. (Beer, Wine, Soda, Brandy, Packers' & Preservers')
PADEN CITY — Duquesne Glass Co. (Beer, Soda, Wine, Brandy)
WHEELING—Central Glass Works (Prescription, Druggists')
Hazel-Atlas Glass Co. (Snuff, Catsup, Ink Oil, Olive & Vaseline.) Works, Washington, Pa., & Clarksburg, W. Va.

## WISCONSIN.

MILWAUKEE—Franzen, Wm. & Son (Inc.)

## 814—Bottles (Gutta Percha)

Bishop Gutta Percha Co., 422 E 25th, New York

## 815—Bottles (Hard Rubber)

American Hard Rubber Co. (For Chemical Plants, etc.), 11 Mercer, New York

## 816— Bottles (Paper)

American Paper Bottle Co., Phila. Bourse, Phila., Pa.
Sanitary Paper Bottle Co., Washington, D. C.

## 817— Bottles (Rubber)

Rubber Products Co. (Water), Barberton, O.

## 818— Bottles (Steel)

Avery Stamping Co. (For Air, 5-8 inch to 1 inch Thick), Cleveland, O.
Federal Pressed Steel Co. (Cold Drawn), Milwaukee, Wis.
**PRESSED STEEL TANK CO. (Cold** Drawn), Milwaukee, Wis. (See adv. index, end of book)

## 819— Bottles (Vacuum)

**American Ever Ready Co. ("Ever Ready"), 308** Hudson, New York
American Thermos Bottle Co., 31 Washington, Brooklyn, N. Y
Caloris Mfg. Co., 2110 Allegheny av, Phila., Pa.
Icy Hot Bottle Co., Cincinnati, O.
Janos Vacuum Bottle Co., 10 Beach, New York
Simplex Vacuum Mfg. Co., 156 5th av, New York
Vacuum Specialty Co. ("Hotakold"), 624 1st av, New York

## 820— Bower Barffed Work

**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Chicago Hardware Co., North Chicago, Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**MEYERS, FRED. J. MFG. CO., Ham-**ilton, O. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 821—Bowling Alley Builders

American Box Ball Co., Indianapolis, Ind.
Brunswick-Balke-Collendar Co., 263 Wabash av, Chicago, Ill.
Crawford, McGregor & Canby Co., Dayton, O.
Rose, H., 145 Hamilton av, Brooklyn, N. Y.
Smith, Edw. H., 50 Ann, New York
Stevens, B. A. Co. (Sectional), Toledo, O.
Zeliff, J. E., Kearny, N. J.

## 822—Bowling Alley Supplies

McMillan's, W. H. Sons, 153 South, New York

## 823— Bowls (Ladle)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 824—Box Anchor & Timber Caps

(See also Hangers, Joist)

**CHAMPION IRON CO, Kenton, O. (See** adv. index, end of book)
Goetz Box Anchor Co., New Albany, Ind.
**RIESECK, P. (Wrought Iron), Al-**legheny av & Rebecca, N S, Pittsburg, Pa. (See adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.

## 825— Box Board Mfrs.

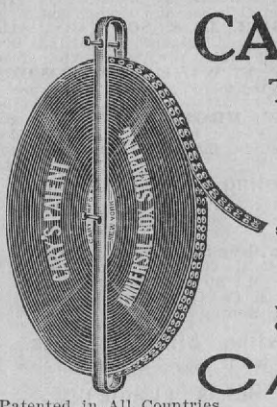
(See also Boards, Binder)

American Straw Board Co., 6 Sherman, Chi-
Beloit Box Board Co., Beloit, Wis. **cago, Ill.**
**HEWITT, C. B. & BROS., 49 Beek-**man, New York. (See adv. index, end of book)
Kennesaw Paper Co., Marietta, Ga.
Knerr Board & Paper Co., Cincinnati, O.
La Boiteaux, C. L. Co., Cincinnati, O.
La Fayette Box Board & Paper Co., Lafayette, Ind.
Mac-Sim-Bar Paper Co. (Clothing, Jute Board, etc.), Otsego, Mich.
Naubuc Paper Co., Glastonbury, Conn.
New Haven Pulp & Board Co., New Haven, Conn.
Otsego Coated Paper Co. (Clay Coated), Otsego, Mich.
Ramage, Jas. Paper Co., Monroe Bridge, Mass.
Roanoke Fibre Board Co., Roanoke Rapids, N. C.
Tonawanda Board & Paper Co., Tonawanda, N.Y.
United Box Board Co 200 5th av, New York

**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

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# CARY'S UNIVERSAL BOX STRAP

THE STRAP WITH THE "NAME"
THE KIND IT PAYS TO HANDLE

OUR STRAPPING HAS ACQUIRED AN ENVIABLE FAME
AND WE DO OUR UTMOST TO UPHOLD ITS NAME

A Continuous Metal Strap with a series of raised bosses along the edges to strengthen same and protect nail heads.
Made in four widths—½, ⅝, ¾ and ONE INCH.
Put up in coils of 300 feet each, and packed 20 coils in a case.
On each coil we put our patent metal reel frame, making it a complete reel.
This Strap is made of extra soft annealed steel of great tensile strength, through which nails can be readily driven without first punching holes. The bosses stiffen the edge of the Strap and protect the nail heads when case is moved along the floor.

CARY MFG. CO. 29 and 31 Roosevelt St. NEW YORK, N. Y.

Patented in All Countries


## 826— Box Straps

**ACME STEEL GOODS CO. ("Acme")** Embossed, Flat, Barbed & Twisted Wire), Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**AMERICAN STEEL & WIRE CO.** (Steel), Commercial National Bank bldg, Chicago, Ill. (See index & branch offices, end of book)
Buffalo Specialty Co. ("Neverbreak." Box Binding), Buffalo, N. Y.
**CARY MFG. CO. ("Cary's" Universal** & Wire Box Strapping Box Corner Fasteners & Clutch Nails), 29 Roosevelt, New York. (See adv. index, end of book)
Crescent Metal Strap Co., 8 Peck Slip, New York
De Haven Mfg. Co. ("Trojan" Steel & Iron), 50 Columbia Hgts., Brooklyn, N. Y.
Independent Steel Wire Co. of America, Kenova, W. Va.
Robertson, W. F. Steel & Iron Co. ("Economy," "Sampson"), Cincinnati, O.
**ROEBLING'S, JNO. A. SONS, Main** Office, Trenton, N. J.; Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Twisted Wire Box Strap Co. (Twisted Wire), 451 Greenwich, New York
Wallace, Wm. & Sons, 513 N Wells, Chicago, Ill.

## 827— Boxes (Annealing)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Columbiana Boiler Co. (Inc.), Columbiana, O.
**CONNERY & CO., 9th & Master,** Phila., Pa. (See adv. index, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Leetonia Boiler Co., Leetonia, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
McNeil, Jas. & Bro. Co., Pittsburg, Pa.
**Meehan Boiler & Constr. Co., Lowellville, O.**
Mesta Machine Co., Pittsburg, Pa.
National Mfg. Co. (Welded or Riveted), N S Pittsburg, Pa.
National Wrought Iron Annealing Box Co., Washington, Pa.
Niles Forge & Mfg. Co., Niles, O.
**PETROLEUM IRON WORKS CO.** ("Seigh"), Sharon, Pa. (See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO., Alliance, O. (See** adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of** Sharon Boiler Works, Sharon, Pa. book)
Standard Boiler & Plate Iron Co., Niles, O.
**STRONG, CARLISLE & HAMMOND** Co. (Also Case-Hardening), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Union Steel Casting Co. ("Union" Truss Supported Roof One-Piece Cast Steel), Pittsburg, Pa.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILFONG, MILLARD F., IRON WKS.** Co., 52d & Grays av, Phila, Pa. (See adv. index, end of book)

## 828—Boxes (Automobile Tool)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**MULLINS, W. H. CO. (Sheet Steel),** 341 Franklin, Salem, O. (See adv. index, end of book)
Saginaw Sheet Metal Works, Saginaw, Mich.

## 829— Boxes (Axle)

American Tube & Stamping Co. (For Children's Carriages), Bridgeport, Conn.
**WIENER, ERNST CO., 475 Fulton** bldg, New York. (See adv. index & branch offices, end of book)

## 830— Boxes (Axle Grease)

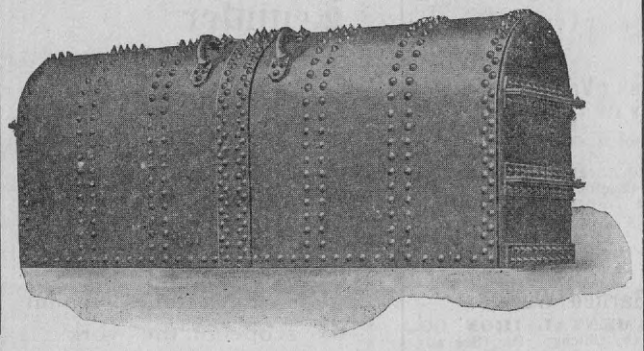
Estes, E. B. & Sons, 74 Warren, New York
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

## 830a—Boxes (Battery, for Automobile)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 831—Boxes (Beer & Soda Water)

Columbia Box Co., St. Louis, Mo.
Goodwillie, D. M. Co., Chicago, Ill.
Marinette & Menominee Box Co., Marinette, Wis.
Rathborne, Hair & Ridgeway Co., Chicago, Ill.

# ANNEALING BOXES

**Plate Work for Mills and Furnaces— Smoke Stacks.**

**The Warren City Tank & Boiler Co.**
**WARREN, OHIO**


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## 832— Boxes (Berry)

**Baumeister, F. & Son, Rockwood, Mich.**
**Colby-Hinkley Co. (Baskets & Veneers), Benton Harbor, Mich.**
Cumberland Fruit Package Co. ("Ewald," Folding), Cumberland, Wis.
**Eaglesville Basket Works, Eaglesville, O.**
South Side Mfg. Co., 97 Warren, New York
**Wells-Higman Co., St. Joseph, Mich.**

## Boxes (Bosh)

(See Plates, Bosh)

## 833— Boxes (Cash)

Erie Art Metal Co. (Sheet Steel), Erie, Pa.
**FIRE-PROOF FURNITURE & CON**struction Co. (Steel), Miamisburg, O. (See adv. index, end of book)
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Merriam Mfg. Co. (Tin), Durham, Conn.
Miller Lock Co. (With Keyed Locks & Keyless Locks), 4523 Tacony, Phila., Pa.

## 834— Boxes (Charging, Open Hearth)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Al**liance, O. (See adv. index & branch offices, end of book)
Variety Iron & Steel Works Co., Cleveland, O.

## 835—Boxes (Core, for Foundry Use)

**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

## 836—Boxes (Corrugated Paper)

Buffalo Box Factory (All Sizes), Buffalo, N. Y.

## 837—Boxes (Coupling for Feeder Cables)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)

## 838— Boxes (Curb)

American Foundry & Mfg. Co., St. Louis, Mo.
Buffalo Meter Co., Buffalo, N. Y.
Campbell, J. B. Brass Works, Erie, Pa.
Eastwood Wire Mfg. Co. (& Key), Belleville, N. J.
Hays Mfg. Co., Erie, Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
Modern Iron Works ("Buffalo"), Quincy, Ill.
Rumsey & Co. (Ltd.) (For Service Pipe), Seneca Falls, N. Y.

## 839— Boxes (Cut Out)

Columbia Metal Box Co., 226 E 144th, New York

## 840— Boxes (District Call)

**Bunnell, J. H. & Co., Park pl & Church, New**
Herzog Teleseme Co., 137 W 23d, New York.
Pearce, Fred'k Co., 18 Rose, New York
Signalphone Alarm Co., Montgomery bldg, Milwaukee, Wis.
Viaduct Electric Co., Relay, Md.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 840a— Boxes (Document)

**JOHNS, H. W.-MANVILLE CO.** ("J-M" Asbestos), 100 William, New York. (See adv. index & branch offices, end of book)

## Boxes (Dumping

(See Wagon Dump Boxes)

## 841—Boxes (Electric Service)

Almsted Mfg. Co., Rochester, N. Y.
Adams, F. Electric Co., St. Louis, Mo.
Andrae, Julius & Sons Co., Milwaukee, Wis.
Bissell, F. Co. ("Security," Cabinets), Toledo, Ohio
Bonnell, Wm. A. Co., 132 Church, New York
Brady, T. H., New Britain, Conn.
Brown Engineering Co., Reading, Pa.
Burns, Jas. F., 1910 N 6th, Phila., Pa.
Columbia Metal Box Co., 79 E 130th, New York
Connecticut Elec. Mfg. Co., Bantam, Conn.
Crouse, Hinds Co., Syracuse, N. Y.
Cuthbert Electrical Mfg. Co., 723 Fulton, Chicago, Ill.
D & W Fuse Co., Providence, R. I.
Detroit Fuse & Mfg. Co., Detroit, Mich.
Federal Electric Co., Lake & Desplaines, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Guilderland Foundry Co., Guilderland, N. Y.
J. P. Mfg. Co., Albany, N. Y.
**JOHNS, H. W.-MANVILLE CO. ("No**ark"), 100 William, New York. (See adv. index, end of book)
Lang, J. Electric Co., 127 N Lincoln, Chicago, Ill.
Machen & Mayer Electrical Mfg. Co., 17th & Vine, Phila., Pa.
Paiste, H. T. Co. ("Le Manquais"), Arch & 32d, Phila., Pa.
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Renim Specialty Co., Boston, Mass.
Star Metal Box Co., 201 Fulton, New York
Troy Electrical Co., Troy, N. Y.
Trumbull Electric Mfg. Co., Plainville, Conn.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Worcester Electric Mfg. Co., Worcester, Mass.

## 842—Boxes (Express Messenger)

**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)

## 843— Boxes (Fare)

(See also Registers, Car Fare)

Brill, J. G. Co., Woodland av c 62d, Phila., Pa.
Coleman Fare Box Co., Buffalo, N. Y.
Johnson Fare Box Co. (Registering), 125 Monroe, Chicago, Ill.
Langslow, H. R. Co., Rochester, N. Y.
Recording Register & Fare Box Co. (Registering), New Haven, Conn.
St. Louis Car Co., St. Louis, Mo.
Transportation Equipment Co. (Registering), 50 Church, New York

## 844— Boxes (Fibre)

(See also Pails, Fibre)

**AMERICAN VULCANIZED FIBRE CO.** ("Luminar"), Wilmington, Del. (See adv. index, end of book)
Illinois Fibre Box Co., 502 N Water, Chicago, Ill.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)

## 845—Boxes (Fire Alarm Signal)

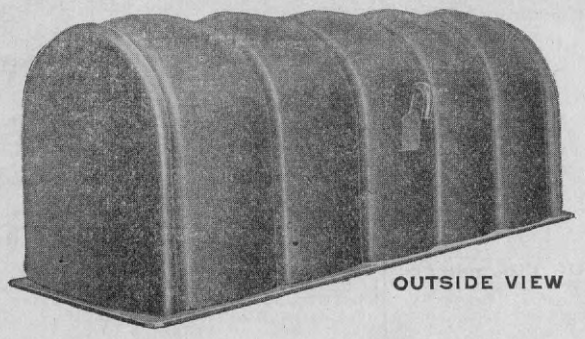
**Bunnell, J. H. & Co., Park pl & Church, New York**
**Edwards & Co., 407 E 144th, New York**
Hayward, B. F. & Co., 39 Park pl., New York
Signalphone Alarm Co., Montgomery bldg, Milwaukee, Wis.
**Star Electric Co., Binghamton, N. Y.**

## 846— Boxes (Floor Outlet)

Adams, Frank Electric Co., St. Louis, Mo.
Bossert Co., Utica, N. Y.
Colgan, W. H. Co. ("Rex"), W. Newton, Mass.
Conlan Electric Co., 43 Murray, New York
Frantzen, Arthur Co., 569 W Van Buren, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Irish, W. F. Electric Co. ("Shamrock"), 60 Cortlandt, New York
Krantz, H. Mfg. Co. ("De Rycke"), 160 7th, Brooklyn, N. Y.
Lang Electric Co. ("Quixet"), 423 N Lincoln, Chicago, Ill.
Lord Mfg. Co. ("Knickerbocker"), 213 W 40th, New York
Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
Russell & Stoll Co., 48 Cliff, New York
Stanley & Patterson ("Patterson," "Fielding"), 27 Warren, New York
Steel City Electric Co. ("Fullman"), N. S. Pittsburg, Pa.
Thomas & Betts Co. ("Columbus"), 299 B'way, New York

## 847—Boxes (Folding Paper)

American Folding Box Co., 84 Thomas, New York
American Paper Box Co., Grand Rapids, Mich.
Battle Creek Paper Co., Battle Creek, Mich.
Boas, Wm. J. & Co., 1042 Ridge av, Phila., Pa.
Boehme & Rauch Co., Monroe, Mich.

OUTSIDE VIEW

See the smooth symmetrical curves. No straight lines or sharp corners to burn away

All sizes. Prices and further information on request

# The Canton Annealing Box

GIVES

Maximum service at minimum cost.

Constant full capacity of box, they do not warp.

Better product, they do not leak.

More tonnage per dollar of cost than any other annealing box.

Write Department "H"

## The Canton Boiler & Engineering Co.

CANTON, OHIO, U. S. A.


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**Brown & Bailey Co., 410 N Franklin, Phila., Pa.**
Buffalo Box Factory (Corrugated), Buffalo, N.Y.
Burt, F. N. Co., Buffalo, N. Y.
Chicago Folding Box Co., 444 S Jefferson, Chicago, Ill.
Conkey, W. B. Co. (Carton & Folding), Hammond, Ind.
Dayton Folding Box Co., Cincinnati, O.
Edwards Folding Box Co., 27 N 6th, Phila., Pa.
Empire Paper Tube & Box Co., 445 West, New York
Folding Paper Box Co., South Bend, Ind.
Fisher, B. E. & Co., 85 5th av, Chicago, Ill.
Gair, Robert Co., Washington & Plymouth, Brooklyn, N. Y.
Hummel & Downing Co., Milwaukee, Wis.
Munson Folding Box Co., New Haven, Conn.
**National Folding Box & Paper Co., New Haven,** N. J. Folding Box Co., Bogota, N. J. Conn.
Rochester Folding Box Co., Rochester, N. Y.
Russell Box Co., Chelsea, Mass.
St. Louis Paper Box Co., St. Louis, Mo.
Sefton Mfg. Co., 1301 W 35th, Chicago, Ill.
Webb Folding Box Co., Bogota, N. J.

## 848— Boxes (Fuse)

American Electric Fuse Co. ("American" Line), Muskegon, Mich.
American General Engineering Co. ("A. G. E." Quick Break), 253 B'way, New York
Brady, Thos. H. (Three Wire, etc.), New Britain, Conn.
Chicago Fuse Mfg. Co. ("Union"), 1014 W Congress, Chicago, Ill.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Columbia Metal Box Co., 79 E 130th, New York
Crouse-Hinds Electric Co., Syracuse, N. Y.
D & W Fuse Co., Providence, R. I.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO. ("Noark" Service & Subway Boxes),** 100 William, New York. (See adv. index & branch offices, end of book)
Lippincott Steam Specialty & Supply Co. ("Patten"), Newark, N. J.
Pass & Seymour, Solvay, N. Y.
Philadelphia Electric & Mfg. Co., 1228 N 31st, Phila., Pa.
Tower-Binford Elec. & Mfg. Co., Richmond, Va.
Troy Electrical Co., Troy, N. Y.

## 849—Boxes (Fuse, Street Car)

Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y.
D & W Fuse Co., Providence, R. I.
**JOHNS, H. W.-MANVILLE CO. ("Noark"),** 100 William, New York. (See adv. index & branch offices, end of book)

## 850—Boxes (Fused Coupling, for Feeder Cables)

D & W Fuse Co., Providence, R. I.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch **offices, end of book)**

## 851— Boxes (Galvanizing)

(See also Kettles, Galvanizing; also Boxes, Annealing)
**WARREN CITY TANK & BOILER Co.,** Warren, O. (See adv. index, end of book)
**WILFONG, WILLARD F. IRON WKS.** Co., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

## 852—Boxes (Grease, Plumbers')

**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Johnson, Wm. (Hedenberg Works), Newark,
Jost's, Edmund Sons, Newark, N. J. N. J.
Stortz, Jno. & Son, 211 Vine, Phila., Pa.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 853— Boxes (Jack)

American Elec. Telephone Co., 64th & State,
**Garl Electric Co.,** Akron, O. Chicago, Ill.
Matthews, W. N. & Bros. ("Matthews"), 205 N 2d, St. Louis, Mo.
Standard Telephone Mfg. Co. ("Standard"), Portsmouth, O.

## 854— Boxes (Journal)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Benton Harbor Malleable Foundry Co. ("Rogers" Dust Proof), Benton Harbor, Mich.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO.,** 17th & Western av, Chicago, Ill. **(See adv. index, end of book)**
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chester Steel Casting Co., Chester, Pa.
Chickasaw Iron Works, Memphis, Tenn.
Cresson, Geo. V. Co., Allegheny av, W of 17th.
Dodge Mfg. Co., Mishawaka, Ind. Phila., Pa.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gould Coupler Co. ("Gould" Malleable Iron), 345 5th av, New York
Great Western Mfg. Co., Leavenworth, Kan.
Hewitt Mfg. Co., Railway Exchange bldg, Chicago, Ill.
Hoppen, J. E. & Sons (Self Closing), Belleville, N. J.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones, E. D. & Sons Co., Pittsfield, Mass.
Kirby Equipment Co., Railway Ex, Chicago, Ill.
Leffel, Jas. & Co. (Inc.), Springfield, O.
McCord & Co. ("McCord" Malleable Iron for Railroads), 150 Michigan av, Chicago, Ill.
Michigan Malleable Iron Co. ("Detroit"). Detroit, Mich.
National Malleable Castings Co., Cleveland, O.
Nordyke & Marmon Co. (Ball & Socket), Indianapolis, Ind.
Ohio Brass Co., Mansfield, O.
Ohio Brass Foundry, Cincinnati, O.
Peteler Car Co., Minneapolis, Minn.
**Platt Iron Works Co., Dayton, O.**
Railway Appliances Co., Old Colony bldg, Chicago, Ill
Railway Roller Bearing Co. (Roller Bearing), Syracuse, N. Y.
Symington, T. H. Co. ("Symington"), Baltimore, Md.
Taylor Electric Truck Co., Troy, N. Y.
Trump Mfg. Co., Springfield, O.
Union Spring & Mfg. Co. ("Kensington" All-Steel), Pittsburg, Pa.; Works: New Kensington, Pa.
Woonsocket Machine & Press Co., Woonsocket, R. I.

## 855—Boxes (Junction or Outlet)

Adams, Frank Electric Co. (Floor & Wall), St. Louis, Mo.
Advance Mfg. Co. ("Heinz"), Pittsburg, Pa.
American Specialty Co. ("Boxet"), Syracuse, N. Y.
Appleton Electric Co. ("Appleton"), 212 N Jefferson, Chicago, Ill.
Benjamin Electric Mfg. Co. (Waterproof), 120 S Sangamon, Chicago, Ill.
Bossert Co. (Steel), Utica, N. Y.
Brady, T. H., New Britain, Conn.
Burns, Jas. F., 715 Cherry, Phila., Pa.
Chase-Shawmut Co. ("Knockout"), Newburyport, Mass.
Chicago Fuse Mfg. Co. ("Union"). 1014 W Congress, Chicago, Ill.
Columbia Metal Box Co., 1955 Park av, New York
Connecticut Elec. Mfg. Co., Bantam, Conn.
Cook, Frank B., 900 W Lake, Chicago, Ill.
Crouse-Hinds Co. ("Condulets"), Syracuse, N. Y.
D & W Fuse Co., Providence, R. I.
Electric Mfg. Co., New Orleans, La.
Electric Supply Co. (Floor Only), Columbus, O.
Federal Electric Co., Chicago, Ill.
Frantzen, Arthur Co., 569 W Van Buren, Chicago, Ill.
G. & W. Electric Co., 6408 Stony Island av, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gleason, John L. ("Fancleve" for Exposed Conduits), Jamaica Plains, Boston, Mass.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Irish W. F. Elec. Co. ("Shamrock"), 60 Cortlandt, New York
Krantz, H. Mfg. Co. ("De Rycke"), 160 7th. Brooklyn, N. Y.
Lang, J. Electric Co. ("Quixet," Floor), 423 N Lincoln, Chicago, Ill.
Lord Electric Co. ("Knickerbocker," Floor), 213 W 40th, New York
McCarthy Bros. & Ford, 41 Eagle, Buffalo, N.Y.
Machen & Mayer Elec. Co. ("M. & M."), 17th & Vine, Phila., Pa.
New England Machine & Electric Co., Pawtucket, R. I.
Newgard, Henry & Co. ("Newgard"), 953 Wash'n boul., Chicago, Ill.
Pass & Seymour, Solvay, N. Y.
Pratt Chuck Co., Frankfort, N. Y.
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Protective Electrical Supply Co., Fort Wayne, Ind.
Renim Specialty Co. ("Renim" Conduit Boxes for Cleat Wiring, etc.), Brighton, Boston, Mass.
Robb & Blackmer, Boston, Mass.
Russell & Stoll Co. (Floor Only), 48 Cliff, New York
Seidler-Miner Electric Co. (Marine), Detroit, Mich.
Sprague Electric Co. (Universal), 529 W 34th, New York
Standard Underground Cable Co., Pittsburg, Pa.
**Stanley & Patterson ("Patterson" Floor), 23 Murray, New York**
Star Metal Box Co., 201 Fulton, New York
Steel City Electric Co. ("Fullman" Electric, "Flexbox" Steel), Pittsburg, Pa.
Stecker Elec. & Machine Co., Detroit, Mich.
Thomas & Betts Co. ("Metzger"), 299 B'way, New York
Ward, Leonard Electric Co., Bronxville, N. Y.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Zenco Electrical Supply Co. ("Chicago," Floor), 571 W Van Buren, Chicago, Ill.

## 855a— Boxes (Letter)

(See Boxes, Mail)

## Boxes (Lithographed Metal)

**(See Boxes & Cans, Litho Metal)**

## 856— Boxes (Lock)

Clark, W. J. Co., Salem, O.
Corbin Cabinet Lock Co., New Britain, Conn.
**FIRE-PROOF FURNITURE & CONS**truction Co. (Steel), Miamisburg, O. (See adv. index, end of book)
Merriam Mfg. Co. (Tin), Durham, Conn.
Miller Lock Co., 4523 Tacony, Phila., Pa.
Yale & Towne Mfg. Co., 9 Murray, New York. Works, Stamford, Conn.

## 857— Boxes (Lock Corner)

Abbey, F. R. (And Nailed Wooden), 634 1st av, New York
Acme Box Co., 619 S Clinton, Chicago, Ill.
Acme Box Co., Chattanooga, Tenn.
American Box Co. (Cottonwood), ft Illinois, Chicago, Ill.
**AMERICAN CRAYON CO. (Basswood),** Sandusky, O. (See adv. index & branch offices, end of book)
American Woodworking Co., 19 Warren, New York
Atwood & McManus (Wooden), Chelsea, Mass.
Bell & Coggshall Co., Louisville, Ky.
Bogert & Hopper, 162 William, New York
Butts, Chas. G. Co., N Tonowanda, N. Y.
Columbia Box Co., St. Louis, Mo.
Connecticut Box Co., New Haven, Conn.
Dunning-Varney Co., 99 Warren, New York
Estes, E. B. & Sons, 74 Warren, New York
Green, A. H. Co., 97 Warren, New York
Hart, Dow, Jr., Marlboro, N. H.
Page, Geo. G. Box Co., Cambridge, Mass.
Schutz Bros., 71 W B'way, New York
Sheip, Hy. H. Mfg. Co., 529 Columbia av, Phila., Pa.
**STILES, H. A. & CO., 161 High, Boston,** Mass. (See adv. index, end of book)
Tollner's, Chas. Sons Co., Pulaski, N. Y.
Le Baron, S. T., 131 Border, E. Boston, Mass.
New England Box Co., Greenfield, Mass.
New Haven Mills Mfg. Co., New Haven Mills, Vt.
Niagara Box Co., Buffalo, N. Y.
West, F. M. Box Co. (Side Cover), Springfield, Mass.

## 858—Boxes (Locomotive Driving)

Keystone Bronze Co., Pittsburg, Pa.

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## 859— Boxes (Mail)

(See also Boxes, Rural Mail)

Ajax Hardware Mfgg. Co. ("Ajax"), Buffalo,
American Metal Co., Indianapolis, Ind. N. Y.
Baldwin Brass Works, 525 W. Van Buren,
Barber Mfg. Co., Ashtabula, O. Chicago, Ill.
Bregwoodkro Stamping & Mfg. Co. (Steel),
Lorain, O.
**Bunnell, J. H. & Co. (For Apartment Houses,** etc.), Park pl & Church, New York
Climax Lock & Ventilator Co. ("Climax"), Buffalo, N. Y.
Corbin Cabinet Lock Co. (Apartment House & Office Letter Boxes), New Britain, Conn.
De Beau Telephone Mfg. Co., Brooklyn, N. Y.
Forest City Foundry & Mfg. Co. ("Standard"), Cleveland, O.
Furniture City Mfg. Co., Grand Rapids, Mich.
Griswold Mfg. Co., Erie, Pa.
Keil, Frances & Son, 401 E 163d, New York
Manhattan Electrical Supply Co., 17 Park pl, New York
Merriam Mfgt. Co. (Tin), Durham, Conn.
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Northwestern Mail Box Co. ("Carriers' Friend"), 5029 McKissock av, St. Louis, Mo.
Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Phelps & Sons, 110 Pennington, Newark, N. J.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Reading Hardware Co., Reading, Pa.
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Signal Mail Box Co., Joliet, Ill.
Tatum, Samuel C. Co., Cincinnati, O.
Taylor & Boggis Foundry Co., Cleveland, O.
Walsh, Owen Mfg. Co., 78 Barclay, New York
Wheeler, Wm. A. ("Globe"), Indianapolis, Ind.
Wilhelm, Henry, 70 Frost, Brooklyn, N. Y.
Winfield Mfg. Co., Warren, O.
Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

## 859a—Boxes (Mail Chute)

**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 860—Boxes (Manhole Junction)

Columbia Metal Box Co., 1943 Park av, New
D & W Fuse Co., Providence, R. I. York
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)
G. & W. Electric Specialty Co., Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index, end of book)
Standard Underground Cable Co., Pittsburg, Pa.

## 861—Boxes (Medicinal, Toilet, Etc.)

**AMERICAN CAN CO. (Seamless, etc.),** 447 W 14th, New York. (See adv. index & branch offices, end of book)

## 862— Boxes (Metal)

**AMERICAN CAN CO., 447 W. 14th,** New York. (See adv. index & branch offices, end of book)
**FIRE-PROOF FURNITURE & CON-**struction Co. (Steel), Miamisburg, O. (See adv. index, end of book)

## 863—Boxes (Metal Bound)

Simplex Metal Bound Box Co. ("Simplex," for Shoes, Candy, Drugs, etc.), Monadnock blk, Chicago, Ill.

## 863a—Boxes (Metal Mailing)

**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)

## 864— Boxes (Meter)

Brady, T. H. (For Sealing Wires After Meter is Removed), New Britain, Conn.
Buffalo Meter Co. (Water Meter), Buffalo, N. Y.
Clark, H. W. Co., Mattoon, Ill.
Columbian Iron Works, Chattanooga, Tenn.
Ford Meter Box Co. ("Ford"), Hartford City, Ind.
Richmond Iron Works, Richmond, Va.

## 865—Boxes (Miners' Squib)

Anton, Geo. & Bro., Monongahela, Pa.

## 866— Boxes (Mitre)

Brandon Machine Co., Akron, O.
Braunsdorf-Mueller Co. ("Dorn" Revolving), Elizabeth, N. J.
Dosch Mfg. Co. ("Improved Union"), Bridgeport, Conn.
Gay, Geo. G. ("Gem" Folding), Augusta, Me.
Gilford, F. E. & Son ("Gilford's" Adjustable), Concord, N. H.
Goodell Mfg. Co. (Bessemer Steel), Greenfield.
Heald Machine Co., Worcester, Mass. Mass.
Jacobs, L. W., West Willington, Conn.
**Jennings, C. E. & Co., 42 Murray, New York**
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
McCarty, J. C. & Co. ("Victor" Folding), 21 Murray, New York
McFarlan & Spieker Mfg. Co. ("Excelsior" & "Spelter"), Cincinnati, O.
Marsh, H. C. & Co. ("Marsh-Ayer"), Rockford, Ill.
Mayhew, H. H. Co. ("Mayhew"), Shelbourne Falls, Mass.
**Millers Falls Co. ("Langdon," "Star," "Marsh-Ayer"), 28 Warren, New York. Works: Millers Falls, Mass.**
National Saw Co. ("Hyde"), Newark, N. J.
Nichols Mfg. Co., Ottumwa, Iowa
Olmsted, L. H., Hasbrouck Heights, N. J.
Overholt Co., Galesburg, Ill.
Parsons Mfg. Co. ("Milks" Pocket Mitre Box), Parsons, Kans.
Robinson, M. W. Co. ("Jacobs" Patent), 79 Chambers, New York
Rockford Mitre Box Co. ("Star"), Rockford,
Schatz Mfg. Co., Poughkeepsie, N. Y. Ill.
**SMITH & HEMENWAY CO. ("Sea-**vey," "Red Devil"), 150 Chambers. (See adv. index, end of book)
Stanley Rule & Level Co. ("Stanley"), New Britain, Conn.
Stearns, E. C. & Co. ("Stearns" Folding), Syracuse, N. Y.
Union Hardware Co. ("Perfection"), Torrington, Conn.

## 867— Boxes (Muffle)

Bethlehem Foundry & Machine Co. (For Chemical Mfg. etc.), Front, South Bethlehem, Pa.

## 868— Boxes (Music)

Jacot Music Box Co., 25 W 35th, New York
Regina Co., Rahway, N. J.

## 869— Boxes (Nail)

**AMERICAN STEEL & WIRE CO.** ("Mrs. McGregor"), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

## Boxes (Outlet or Junction)

(See Boxes, Junction or Outlet)

## 870—Boxes (Outlet, for Steel Armored Cables)

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)
Steel City Electric Co. ("Flexbox"), Pittsburg, Pa.

## 871—Boxes (Paper, Metal Edge)

Economy Metal Edge Box Co., 555 Monroe, Chicago, Ill.
National Metal Edge Box Co., 8th c Willow, Philadelphia, Pa.

## 872—Boxes (Paper Shipping)

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

## 873— Boxes (Pencil)

American Mfg. Concern, Jamestown, N. Y.

## 874—Boxes (Post Office Lock)

Eagle Lock Co., Terryville, Conn.
Keyless Lock Co., Indianapolis, Ind.
Yale & Towne Mfg. Co., 9 Murray, New York

## 875— Boxes (Quarry Dump)

Steam Stone Cutter Co. (For Quarry Waste etc.), Rutland, Vt.

## Boxes (Resistance)

(See Rheostats)

## 876— Boxes (Rural Mail)

(See also Boxes, Mail)

Bushnell Tank Works, Bushnell, Ill.
**Climax Lock & Ventilator Co., Buffalo, N. Y.**
Dairymen's Mfg. Co. ("Dandy"), Jersey City, N. J.
Deshler Mail Box Co. ("Deshler"), Deshler, O.
Folsom, C. G. Mfg. Co. ("Ideal"), South Bend, Ind.
Gier & Dail Mfg. Co. ("Lansing"), Lansing, Mich.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Heller-Aller Co., Napoleon, O.
Hessler, H. E. Co. ("Hessler"), Syracuse, N. Y.
Kelly Foundry & Machine Co., Goshen, Ind.
Kelly Mfg. Co., Waterloo, Iowa
**Lisk Mfg. Co. (Ltd.) ("Lisk" Aluminum Gal-**vanized), Canandaigua, N. Y.
Peck-Hamre Mfg. Co. ("Gem," "Jewel"), Ber-
Robinson, Geo. E., Locke, N. Y. lin, Wis.
Welch Co., Nankin, O.

## 877— Boxes (Safe Deposit)

**BERGER MFG. CO., THE, Main Of-**fice & Works: Canton, O. (See adv. index & branch offices, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 878—Boxes (Salt, Spice, Etc.)

**ARCADE MFG. CO. (Wood), Free-**port, Ill. (See adv. index, end of book)

## 879— Boxes (Sand)

(See also Locomotive Sanders)

American Locomotive Sander Co., 13th & Willow, Phila., Pa.
Brill, J. G. Co. ("Dumpit"), 62d & Woodland av, Phila., Pa.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Dayton Mfg. Co. ("Simmons-Moore"), Dayton, O.
Duner Co., 101 S Clinton, Chicago, Ill.
Knecht, Victor Co. ("Robinson"), Cincinnati, O.
Lebanon Electric Co. ("Eureka"), Lebanon, Pa.
Nichols-Lintern Co., Cleveland, O.
Ridlon, Frank Co. ("Kilbourn"), 251a Boston, Mass.
Sterling-Meaker Co., 420 Ogden, Newark, N. J.
Trojan Button Fastener Co. ("Ham"), Troy, N. Y.

## 880— Boxes (Seamless Tin)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Buckeye Stamping Co., Columbus, O.
Rumrill & Co., 52 Purchase, Boston, Mass.

## 881— Boxes (Shafting)

(See also Power Transmitting Machinery)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO.,** 17th & Western av, Chicago, Ill. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cresson, George V. Co., Allegheny av, W of 17th, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Filer & Stowell Co., Milwaukee, Wis. Ohio
Hunt, Rodney Machine Co., Orange, Mass.
Hutchinson, Jno. Mfg. Co. (Roller Bearing Drop Hanger & Post Box), Jackson, Mich.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., St. Louis, Mo.
**Nordyke & Marmon Co., Indianapolis, Ind.**
Sellers, Wm. H. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Union Iron Works Co., San Francisco. Cal.
**WEBSTER MFG. CO., THE, 2410 W** 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Wood's, T. B. Sons Co., Chambersburg, Pa.

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## 882—Boxes (Shelf Hardware)

Green, A. H. Co. (Interchangeable Lock Corner), 97 Warren, New York
Heller, W. C. & Co. (Varnished Oak Fronts), Montpelier, O.
Jones, Jesse Paper Box Co. (Wood), 615 Commerce, Philadelphia, Pa.
Moore, Chas. P., Ravenswood, W. Va.
Phillips, A. J. Co. (Track, Nail, etc.), Fenton, Mich.
Sheip, Hy. H. Mfg. Co., Columbia av & Randolph, Phila., Pa.
Warren, J. D. Mfg. Co., Chicago, Ill.

## 883—Boxes (Spark Coil, Waterproof)

Churchill Cabinet Co., 2119 Churchill, Chicago, Ill.
Household Cabinet Co., Providence, R. I.
Standard Cabinet Co., Peru, Ind.
Stanley & Patterson, 23 Murray, New York
Union Hardware Co., Torrington, Conn.
West, F. M. Box Co., Springfield, Mass.

## 884— Boxes (Sprue)

Sterling Wheelbarrow Co. ("Sterling" Steel), West Allis, Wis.

## Boxes (Starting)

(See Rheostats)

## 885— Boxes (Steel Shelf)

(See also Boxes, Tote. Sheet Steel; also Steel Factory Equipments)

**FIRE-PROOF FURNITURE & CON**struction Co., Miamisburg, O. (See adv. index, end of book)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)

## Boxes (Stoneware)

(See Stoneware, Chemical)

## 886— Boxes (Stuffing)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855) (Brass), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co. (Oil Well), Pittsburg, Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
National Tube Co. (Brass), Pittsburg, Pa.
**Richardson, Edro Brass Co. (Brass), Baltimore, Md.**
Union Machine Co. (Inc.) ("D. & L." Throttle Rod), St. Paul, Minn.

## 887— Boxes (Switch)

Arrow Electric Co., Hartford, Conn.
Burns, Jas. F., 1910 N 6th, Phila., Pa.
Chicago Fuse Mfg. Co. ("Union"), 1014 W Congress, Chicago, Ill.
Colgan, W. H. Co. ("Rex"), West Newton, Mass.
Columbia Metal Box Co., 79 E 130th, New York
Cutter Electrical & Mfg. Co. ("Munit"), 19th & Hamilton, Phila., Pa.
Economy Switchbox & Mfg. Co. ("E-Z"), Cleveland, O.
Fountain, Jno., Jr., 29 Murray, New York
Frederick-Elder Co., Bridgeville, Pa.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Gleason, John L. ("Fancleve" for Exposed Conduits), Jamaica Plains, Boston, Mass.
Hall Signal Co. (For R. R. Signal Systems), 25 Broad, New York
**HART MFG. CO. ("Diamond H"),** 103 Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)
Hart & Hegeman Mfg. Co. ("H. & H."), Hartford, Conn.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill
Holabird-Reynolds Elec. Co., Los Angeles, Cal.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Machen & Mayer Electrical Mfg. Co., 17th & Vine, Phila., Pa.
Newgard, Henry & Co. ("Newgard"), 953 Wash'n boul., Chicago, Ill.
Nottingham, Wm. M., Syracuse, N. Y.
Ostrander & Co., 22 Dey, New York
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Renim Specialty Co. ("Renim" for Use with Rigid or Flexible Metallic Conduit, etc.), Brighton, Boston, Mass
Rice, Geo. H. Co. ("Hol-Ken"), 481 Sterling pl Brooklyn, N. Y
Steel City Electric Co., Pittsburg, Pa.
Stevens, Benj. A. Co., Toledo, O.
Thomas & Betts Co. ("Toler"), 299 B'way, New York
Trumbull Elec. Mfg. Co., Plainville, Conn.

## 888— Boxes (Tackle)

Merriam Mfg. Co. ("Johnson," Trayless), Durham, Conn.

## 889— Boxes (Take Up)

**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index, end of book)**
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Diamond Iron Works, Minneapolis, Minn.
Dodge Mfg. Co., Mishawaka, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Medart Patent Pulley Co., St. Louis, Mo.
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
**Strait, H. N. Mfg. Co., Kansas City, Mo.**
**WEBSTER MFG. CO., THE, 2410 W** 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## Boxes (Telephone)

(See Woodwork, Electrical; also Telephone Cabinet Work)

## 890—Boxes (Ticket Cancelling)

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 891— Boxes (Tin, Cigar)

National Can Co., Detroit, Mich.

## Boxes (Tool, Steel)

(See Steel Factory Equipments)

## 892—Boxes (Tote, Sheet Steel)

Avery Stamping Co., Cleveland, O.
Clark, W. J. Co., Salem, O.
Cleveland Wire Spring Co., Cleveland, O.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Heller, W. C. & Co. (For Dies, Bolts, Nuts, Screws, etc.), Montpelier, O.
Keighley, S. Metal Ceiling & Mfg. Co., Pittsburg, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co., So. Framingham, Mass.
Ohio Ceramic Engineering Co., Cleveland, O.
Ohio Galvanizing & Mfg. Co., Niles, O.
Ohio Mfg. Co., Painesville, O.
Roseland Can & Specialty Co., Rockford, Ill.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Sterling Wheelbarrow Co., West Allis, Wis.
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)
Wall, P. Mfg. Supply Co., N S Pittsburg, Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 893—Boxes (Transformer Primary)

**JOHNS, H. W.-MANVILLE CO.** ("J-M"), 100 William, New York. (See adv. index & branch offices, end of book)

## 894— Boxes (Turned Wood)

(See also Boxes, Lock Cornered; also Wood Novelties, Turned)

American Woodworking Co., 19 Warren, New York
Estes, E. B. & Sons (Also Lock Cornered & Fancy Hardwood), 74 Warren, New York
Schutz Bros., 71 W B'way, New York
Sheip, H. H. Mfg. Co., 529 Columbia av, Philadelphia, Pa.
**STILES, H. A. & CO., 161 High, Bos**ton, Mass. (See adv. index, end of book)

## 895— Boxes (Twine)

Landers, Frary & Clark, New Britain, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Tatum, Samuel C. Co., Cincinnati, O.

## 896—Boxes (Valve & Service)

American Foundry & Mfg. Co., St. Louis, Mo.
Bourbon Copper & Brass Works (Extension, etc.), Cincinnati, O.
Builders' Iron Foundry ("Stacy" Extension Service), Providence, R. I.
Campbell, J. B. Brass Works, Erie, Pa.
**CANTON FOUNDRY & MACHINE CO.** (Adjustable), Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Central Foundry Co. ("Buffalo" & "Phoenix" Pattern), 37 Wall, New York
**Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.**
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Drummond, M. J. & Co., 182 B'way, New York
Hays Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul., Chicago, Ill.
Iowa Mfg. Co., Oskaloosa, Ia.
Kennedy Valve Mfg. Co. (Extension Valve), Elmira, N. Y.
Loetzer Valve & Mfg. Co. ("Loetzer" Extension Street), Monroeton, Pa.
Modern Iron Works ("Peerless," Adjustable, Bignall Service or Stop-Cocks), Quincy, Ill.
Mueller, H. Mfg. Co., Decatur, Ill.
Rensselaer Valve Co., Troy, N. Y.
South Park Fdry & Mach. Co., St. Paul, Minn.
Taylor, W. P. Co., 218 Ellicott sq, Buffalo, N. Y.
Waterworks Equipment Co. (Extension Service Boxes), 50 Church, New York
Wood, R. D. & Co. (Adjustable), 400 Chestnut, Philadelphia, Pa.

## 897— Boxes (Wall)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index, end of book)**
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., 18th & Allegheny av, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
**Medart Patent Pulley Co., 3500 DeKalb, St. Louis, Mo.**
Lanz, M. & Sons (Steel), 101 S 29th, Pittsburg, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Platt Iron Works Co., Dayton, O.
**WEBSTER MFG. CO., THE, 2410 W** 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 898— Boxes (Waste)

(See also Cans, Waste)

**AMERICAN CAN CO., 447 W. 14th,** New York. (See adv. index & branch offices, end of book)
Clark, W. J. Co., Salem, O.
Ely & Williams Co. (Individual), 257 B'way, New York
Hall Mfg. Co. ("Hall's"), John & Cliff, New York
**KOVEN, L. O. & BRO. (Iron), 50 Cliff,** New York. (See adv. index, end of book)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO. (Metal),** Grand Rapids, Mich. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 899— Boxes (Wire Bound)

Cincinnati Wire Bound Box Co., Cincinnati, O.
Crawfordsville Wire Bound Box Co., Crawfordsville, Ind.

## 900— Boxes (Zinc)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 901—Boxes & Cans (Litho Metal)

**AMERICAN CAN CO., 447 W. 14th,** New York. (See adv. index & branch offices, end of book)
American Stopper Co., 19 Verona, B'klyn, N. Y.
Buckeye Stamping Co., Columbus, O.

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Burdick & Son, Albany, N. Y.
**Clark, J. L. Mfg. Co., Rockford, Ill.**
**Columbia Can Co., St. Louis, Mo.**
Columbia Specialty Co., Baltimore, Md.
Heekin Can Co., Cincinnati, O.
**La Crosse Can Co., La Crosse, Wis.**
Metal Package Co., 30 Main, Brooklyn, N. Y.
National Can Co., Detroit, Mich.
Ritter Conserve Co., Camden, N. J.
Passaic Metal Ware Co., Passaic, N. J.
**Southern Can Co. (Cans Only), Baltimore, Md.**
**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)
**St. Louis Tin & Sheet Metal Working Co.,** St. Louis, Mo.
**Taite & Sisler Co., 12th & Fitzwater, Phila., Pa.**

## 902– Braces (Cross Arm)

(See also Cross Arms, Brackets, Etc., Steel)

Aetna Nut Co., Southington, Conn.
**ALLEGHENY STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
American Iron & Steel Mfg. Co., Lebanon, Pa.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich
Avery Stamping Co., Cleveland, O.
Belden Mfg. Co. (Steel), 2308 Western av, Chicago, Ill.
Benicia Iron Works, San Francisco, Cal.
Bissell, F. Co. ("Security"), Toledo, O.
Buffalo Steel Co. (Stiff Bessemer Steel), Tonawanda, N. Y
Cleveland Galvanizing Works Co., Cleveland, O.
Creaghead Engineering Co., Cincinnati, O.
**GOFF, HORNER & CO., Ltd. (Steel.),** Offices, Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Grabler Mfg. Co., Cleveland, O.
Hallett Iron Works, 519 W Polk, Chicago, Ill.
Hazel-Atlas Glass Co., Wheeling, W. Va.
**Heinemann, Geo. & Co., 500 Girard av, Phila.,** Pa.
Hubbard & Co., Pittsburg, Pa.
Inland Steel Co. (Bessemer Steel), First Nat'l Bank bldg, Chicago, Ill.
Lanz, Matthew & Sons, Pittsburg, Pa.
McCance Bros. Co. (Inc.) (Plain & Galvanized), Pittsburg, Pa.
Meckel, Fred L., 11 E 13th, Chicago, Ill.
Michigan Bolt & Nut Works, Detroit, Mich.
**Moatz, D. L., Round Hill, Va.**
Monroe Electrical Mfg. Co. ("Monroe"), Monroe, Mich.
Ohio Brass Co., Mansfield, O.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steeel Co., Pittsburg, Pa.
Valley Forging Co., Verona, Pa.

## 902a–Braces (Ladder Elevator with Platform)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 903–Braces (Ladder Foot)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 904– Braces (Rail)

(See also Bars, Splice)

Adreon Mfg. Co. ("Security"), St. Louis, Mo.
Ajax Forge Co., Hayne & Blue Island avs, Chicago, Ill.
Allentown Rolling Mills, Allentown, Pa.
American Frog & Switch Co., Hamilton, O.
Ames, W. & Co., Jersey City, N. J.
Atlas Railway Supply Co., Manhattan bldg, Chicago, Ill.
Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
Buda Co., Railway Exch bldg, Chicago, Ill.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Cincinnati Frog & Switch Co., Cincinnati, O
Cleveland Frog & Crossing Co., Cleveland, O.
Colorado Fuel & Iron Co., Denver, Col.
Conley Frog & Switch Co., Memphis, Tenn
Dilworth, Porter & Co. ("Goldie"), Pittsburg, Pa.
Elliott Frog & Switch Co., East St. Louis, Ill.
Illinois Steel Co., 115 Adams, Chicago, Ill.
Indianapolis Switch & Frog Co., Springfield, O.
Kilby Frog & Switch Co., Birmingham, Ala.
Knoxville Iron Co., Knoxville, Tenn.
Lackawanna Steel Co. (Splice Bars, etc.), Buffalo, N. Y.
Manhattan Railway Supply Co. (Girder & Tee Rail), 2 Rector, New York
Morden Frog & Crossing Works (Die Formed Steel), Commercial Nat'l Bank bldg, Chicago, Ill.
National Railway Materials Co., 90 West, New York
New York Switch & Crossing Co., Hoboken, N. J.
Niagara Forged Steel Co., Buffalo, N. Y.
Pennsylvania Steel Co. ("Acme"), 1421 Chestnut, Phila., Pa.
Pettibone, Mulliken & Co. ("Akins" Forged Steel), 204 Dearborn, Chicago, Ill.
Portland Iron & Steel Co., Portland, Me.
Q. & C. Co. ("Inter Guard," "Samson," Malleable Iron & Pressed Steel), Plainfield, N. J.
Rail Joint Co., 185 Madison av, New York
Ramapo Iron Works, Hillburn, N. Y.
Reading Iron Co., Reading, Pa.
Sellers Mfg. Co., 193 Michigan av, Chicago, Ill.
Steel Car Forge Co., Pittsburg, Pa.
Tredegar Co., Richmond, Va.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
**UNION SWITCH & SIGNAL CO., THE,** Swissvale, Pa., 143 Liberty, New York, & Swissvale, Pa.
Weir Frog Co., Cincinnati, O.
Wilmington Malleable Iron Co., Wilmington, Del.

## 905– Braces (Rudder)

Wilcox, Crittenden & Co., Middletown, Conn.

## 906– Braces (Screen Door)

National Mfg. Co. (Turn-Buckle), Sterling, Ill.
Snyder, F. Edw. ("Anti-Sag"), Massillon, O.

## 907–Braces (Telegraph Pole)

American Shovel & Stamping Co., Lorain, O.

## 908– Braces (Trench or Sewer)

Dixon, Chas. E. & Son, 3027 Liberty av, Pittsburg, Pa.
Dunn Mfg. Co. ("Dunn," "Alliance"), N S, Pittsburg, Pa.
Kalamazoo Foundry & Machine Co. (Extensible Trench), Kalamazoo, Mich.
Potter Mfg. Co. (Trench), Indianapolis, Ind.
Rolf-Martin Co. ("Martin"), Fort Wayne, Ind.
**UNION ELEVATOR & MACHINE CO.,** ("Channon"), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
U. S. Chaplet & Supply Co. ("Sampson"), 140 Cedar, New York

## 909– Brackets

American Pin Co. (Brass, Lavatory, Tank, etc.), Waterbury, Conn.
Cassady-Fairbank Mfg. Co. (Bath Room), 6106 La Salle, Chicago, Ill.
Central Foundry Co. (Sink, also Extension Sink, Adjustable), 90 West, New York
Detroit Arch'l Iron Works Co., Detroit, Mich.
Grabler Mfg. Co. (Soil Pipe, etc.), Cleveland, O.
Griffin Mfg. Co. (Lavatory, Sink & Flush Tank, etc., Erie, Pa.
Hubbard & Co. ("Pierce" Transposition), Pittsburg, Pa.
Ideal Mfg. Co., Detroit, Mich.
Ireland & Matthews Mfg. Co. (For Plumbers' Tanks), Detroit, Mich
Kupferle, John C. Foundry Co. (Sink, Tank, etc.), St. Louis, Mo.
Lipp, Louis Co. (Closet Tank), Cincinnati, O.
Nashua Till Co. (Steel Nickel Plated Show Case Brackets), Nashua, N. H.
Reading Hardware Co. (Iron Shelf & Screen Door), Reading, Pa.
Smith, James R. & Co. ("J. R. S." Sure Grip for Expansion & Range Tanks), Mechanicsville, N. Y.
**STANLEY WORKS (Wrought Steel** Shelf), New Britain, Conn. (See adv. index & branch offices, end of book)
**TURNER & SEYMOUR MFG. CO.** (Curtain Pole & Rod), Torrington, Conn. (See adv. index, end of book)
Wells Light Mfg. Co. ("Wallwork's Universal" Electric Lamp), Jersey City, N. J.
Wolverine Brass Works (Lavatory), Grand Rapids, Mich.

## 910– Brackets (Arc Lamp)

Ajax Line Material Co. ("Jonie," "Mitre"), So. Milwaukee, Wis.
Cutter, Geo. Co., South Bend, Ind.
Fletcher Mfg. Co., Dayton, O.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Morris Iron Co., 90 West, New York
Stover Mfg. Co., Freeport, Ill.
Tea Tray Co., Newark, N. J.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wheeler Reflector Co., Boston, Mass.

## Brackets, Cross-Arms, Etc.

(See Brackets, Trolley Pole; also Cross-Arms, Brackets, Etc.)

## 911– Brackets (Curtain Pole)

**BAY STATE STAMPING CO. ("Bennett," Adjustable),** 380 Chandler, Worcester, Mass. (See adv. index, end of book)
Judd, H. L. & Co., 87 Chambers, New York
Mott, J. L. Iron Works, 118 5th av, New York
Nelson, N. O. Mfg. Co., St. Louis, Mo.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of Wire Goods Co., Worcester, Mass. book)

## 911a–Brackets (Desk Telephone)

American Book Bracket Co., 114 S 6th, Phila., Pa.
American Electric Co. ("Burns"), 64th & State, Chicago, Ill.
Chicago Writing Machine Co. ("Adjustaphone"), Galesburg, Ill.
Connecticut Tel. & Electric Co., Meriden, Conn.
Cook, Frank B., 900 W Lake, Chicago, Ill.
DeVeau Telephone Mfg. Co. ("Victor"), 32 Park pl, New York
Fox-Borden Mfg. Co. ("Phone-Eze"), 95 Liberty, New York
Holtzer-Cabot Electric Co., Brookline, Mass.
K. & B. Co. ("Ben-bow"), 8th & Chestnut, Phila., Pa.
Lee Electric Co. ("Davis," "Calvert," Adjustable), 219 N Calvert, Baltimore, Md.
Novelty Electric Co., 50 N 4th, Phila, Pa.
Oliver Mfg. Co. ("Equipoise," "Ad-A Link"), Hale bldg, Phila., Pa.
Seely Office Appliance Co. ("Phone-Eze"), 95 Liberty, New York
Schofield & Co., 150 Nassau, New York.
Stanley & Patterson ("Imperial"), 23 Murray, New York
Swedish-American Telephone Co., 5235 E Ravenswood, Chicago, Ill.
Warner Electric Co. (Oxodized Finished), Muncie, Ind.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.

## 912–Brackets (Electric House)

Ajax Line Material Co., So. Milwaukee, Wis.
Brady, T. H., New Britain, Conn.
Cutter, Geo. Co., South Bend, Ind.
Electrical Construction Supply Co. ("Chubbuck"), Springfield, O.
Hallett Iron Works, 519 W Polk, Chicago, Ill.
Heinemann, Geo. & Co., 500 Girard av, Phila., Pa.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Hubbard & Co. ("Pierce"), Pittsburg, Pa.
Morris Iron Co., 90 West, New York; Works: Frederick, Md.
Spencer's, I. S. Sons, Guilford, Conn.

## 913– Brackets (Flag Pole)

Hart, Walter, 111 Chambers, New York
Wilcox, Crittenden & Co., Middletown, Conn.
Wrightsville Mardware Co., Wrightsville, Pa.

## 914–Brackets (Folding Scaffold)

Ashland Folding Scaffold Co., Ashland, O.
Berlin Construction Co. (Folding Steel Building), Berlin, Conn.
Moulton, C. W. & Co., Somerville, Mass.
**RICHARDS-WILCOX MFG. CO., 3d & Q st, Aurora, Ill.** (See adv. index & branch offices, end of book)
Weber Mfg. Co., West Allis, Wis.

## 915–Brackets (Hand & Foot Rail)

American Foundry & Mfg. Co., St. Louis, Mo.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Cheney, S. & Son, Manlius, N. Y.
Glenn Mfg. Co. (Counter Rail), St. Charles, Ill.
Ives, H. B. Co., New Haven, Conn.
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)

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Norwalk Lock Co., S Norwalk, Conn.
Penn Hardware Co., Reading, Pa.
Pratt, Wm. E. Mfg. Co. (Hand Rail), 91 Lake, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Richard-Wilcox Co., Aurora, Ill.
**Russell & Erwin Mfg. Co., New Britain, Conn.**
Stearns, E. C. & Co., Syracuse, N. Y.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

## 916 –Brackets (Ladder Platform)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 917–Brackets (Ladder Scaffold)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 918– Brackets (Plumbers')

American Foundry & Mfg. Co., St. Louis, Mo.
Barber Mfg. Co. (Adjustable Nickeled, etc.), Ashtabula, O.
Barnes Mfg. Co., Mansfield, O.
Edwardsville Brass Co. (Iron, Steel & Brass), Edwardsville, Ill.
Glenn Mfg. Co., St. Charles, Ill.
Griffin Mfg. Co., Erie, Pa.
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lipp, Louis Co., Cincinnati, O.
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
McDonald, A. Y. Mfg. Co. (''Diamond''), Dubuque, Ia.
Mott, J. L. Iron Works, 118 5th av, New York
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Park & McKay Co., Detroit, Mich.
Penn Hardware Co. (Cast & Wrought Steel), Reading, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Sanitary Co. (''Paragon'' Brass), Cleveland, O.
Stover Mfg. Co., Freeport, Ill.
Stowell Mfg. & Foundry Co., So. Milwaukee, Wis.
Wrightsville Hardware Co., Wrightsville, Pa.

## 919– Brackets (Rafter)

**ARCADE MFG. CO. (Steel Wire),** Freeport, Ill. (See adv. index, end of book)
Loudon Machinery Co., Fairfield, Ia.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Ney Mfg. Co., Canton, O.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.

## 920– Brackets (Roof)

**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O., & 81 Fulton, New York.** (See adv. index, end of book)
Griswold, Warren S., Springfield, Mass.
Henderson, A. P. (''Henderson'' Self-Locking, Adjustable), Hanover, Mass.
Moulton, C. W. & Co., Somerville, Mass.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Stanley Rule & Level Co., New Britain, Conn.
Wagner Mfg. Co. (''Wagner''), Cedar Falls, Ia.

## 921– Brackets (Shelf)

American Foundry & Mfg. Co., St. Louis, Mo.
Arcade Mfg. Co. (Steel Wire), Freeport, Ill.
Atlas Mfg. Co. (''Bradley's''), New Haven, Conn.
Brass Goods Mfg. Co., Nevins c Union, Brooklyn, N. Y.
Cleveland Lock Co. (''Hercules''), Cleveland, O.
Dayton Malleable Iron Co., Dayton, O.
Grand Rapids Brass Co., Grand Rapids, Mich.
Griffin Mfg. Co. (Pressed Steel Folding), Erie, Pa.
McKinney Mfg. Co. (Wrought Steel), Pittsburg, Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co. (Cast & Wrought Steel), Reading, Pa.
**Reading Hardware Co., Reading, Pa.**
Russell & Erwin Mfg. Co., New Britain, Conn.
**STANLEY WORKS (Wrought Steel)** New Britain, Conn. (See adv. index & branch offices, end of book)
**Stover Mfg. Co., Freeport, Ill.**
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
Van Doorn Co. (Adjustable, Brass Coppered, Nickle Plated etc.), Quincy, Ill.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

## 921a– Brackets (Shingling)

(See Brackets, Roof)

## 922– Brackets (Sink)

Berger, B. A. Mfg. Co. (Steel), Richmond, Va.
Casey-Hedges Co., Chattanooga, Tenn.
Central Foundry Co. (Extension, Adjustable, etc.), 90 West, New York
Glenn Mfg. Co., St. Charles, Ill.
Griffin Mfg. Co., Erie, Pa.
Hessler, H. E. Co. (''Syracuse'' Steel), Syracuse, N. Y.
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, Ohio
Kupferle, John C. Foundry Co., St. Louis, Mo.
Modern Iron Works (Cast Iron), Quincy, Ill.
Ohio Sterling Co., Dayton, O.
Rumsey & Co. (Ltd.), (Adjustable, etc.), Seneca Falls, N. Y.
**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)
Swett, A. L. Iron Works, Medina, N. Y.
Young, Joseph H. Co. (''Boston'' Adjustable), Boston, Mass.

## 923–Brackets (Slaters' Scaffold)

Stortz, John & Son, 210 Vine, Phila., Pa.

## 924– Brackets (Staging)

Boston Bolt & Iron Co., 40 Farnsworth, Boston, Mass.

## 925–Brackets (Steel, for Painters)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 926–Brackets (Steel Scaffold)

Buxton Machine Works (''Detroit''), Detroit, Mich.
McIntyre Steel Scaffold Bracket Co. (''McIntyre''), Detroit, Mich.
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 927–Brackets (Steel Shingling)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 928– Brackets (Table)

Mott, J. L. Iron Works, 118 5th av, New York
Universal Caster & Foundry Co., 1170 B'way, New York. Factory: Newark, N. J.

## 929– Brackets (Third Rail)

Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 930– Brackets (Trolley Pole)

(See also Cross Arms; also Insulator Pins & Brackets)

Ajax Line Material Co. (''Volta''), S Milwaukee, Wis.
American Bridge Co. (Steel), 30 Church, New York
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Bissell, F. Co. (''Security,'' Angle Iron), Toledo, O.
Brady, T. H., New Britain, Conn.
Creaghead Engineering Co. (Flexible), Cincinnati, O.
Cutter, Geo. Co., South Bend, Ind.
Dayton Mfg. Co., Dayton, O.
Diamond Steel Pole Co., Land Title bldg, Phila., Pa.
Electric Service Supplies Co. (''Keystone''), 1020 Filbert, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Fletcher Mfg. Co. (Iron), Dayton, O.
Francis, Philip S. (Adjustable), 115 N 6th, Phila., Pa.
Hallett Iron Works, 519 W Polk, Chicago, Ill.
Heinemann, Geo. & Co., 500 Girard av, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Son, Pittsburg, Pa.
Locke Insulator Mfg. Co., Victor, N. Y.
Morris Iron Co. (Wrought Iron & Steel Tubular), 90 West, New York; Works: Frederick, Md.
Naugatuck Malleable Iron Co. (''Beardsley''), Naugatuck, Conn.
**Ohio Brass Co. (All Kinds), Mansfield, O.**
Pittsburg Pole & Forge Co., Pittsburg, Pa.
St. Louis Malleable Casting Co., St. Louis, Mo.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wisconsin Bridge & Iron Co., Milwaukee, Wis.

## 931– Brackets (Wood)

McMillen, R. Co., Oshkosh, Wis.
Morgan Co., Oshkosh, Wis.
Peirce, W. E. & Co., Milford, N. H.
Riggs Cypress Co., Patterson, La.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book)
Zimmerman, Chas. E., Syracuse, N. Y.

## 932– Brad-Sets

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 933–Brake (Angle & Band Iron)

Excelsior Tool & Machine Co., E St. Louis, Ill.

## 934–Brake Banding for Automobiles

**ROSSENDALE - REDDAWAY BELTing & Hose Co.** (''Camel'' Brand), Newark, N. J. (See adv. index, end of book)

## 935– Brake Beams

American Iron & Steel Mfg. Co., Lebanon, Pa.
American Steel Foundries, 115 Adams, Chicago, Ill.
Barney & Smith Car Co., Dayton, O.
Bethlehem Steel Co. (Open-Hearth Steel), South Bethlehem, Pa.
Bettendorf Axle Co. (Car), Davenport, Iowa
Buffalo Brake Beam Co., Buffalo, N. Y.
Chicago Railway Equipment Co. (''Kewanee,'' **''Diamond,''** ''Creco,'' **''Sterlingworth''** & ''Monarch''), 46th & Winchester av, Chicago,
Cleveland Car Specialty Co., Cleveland, O. Ill.
Damascus Brake Beam Co. (''Waycott,'' ''Damascus''), Collinwood, O.
Davis Solid Truss Brake Beam Co., Wilmington, Del.
Frost Railway Supply Co., Detroit, Mich.
Joliet Railway Supply Co. (''All Steel,'' ''Hunton,'' ''L. N.,'' High Speed), Joliet, Ill.
Lightbody Safety Brake Rigging Co., Water-
Niagara Device Co., Buffalo, N. Y. ville, Me.
Pressed Steel Car Co., Pittsburg, Pa.
Simplex Railway Appliance Co., Commercial Nat'l B'k bldg, Chicago, Ill.; Works: Hammond, Ind.
Standard Steel Car Co., Frick bldg, Pittsburg, Pa.
U. S. Metal & Mfg. Co. (''Damascus''), 165 B'way, New York
Western Steel Car & Foundry Co., Old Colony bldg, Chicago, Ill.

## 936–Brake Equipment for Traction Cars (Power)

**WESTINGHOUSE TRACTION BRAKE Co., Pittsburg, Pa.**

## 937– Brake Jaws

**CLEVELAND CITY FORGE & IRON Co., Cleveland, O.** (See adv. index, end of book)
Dayton Malleable Iron Co. (''Kelly''), 1303 W 3d, Dayton, O.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Otis Spencer Co., 9 Jackson blvd, Chicago, Ill.
Steel Car Forge Co., Pittsburg, Pa. Works, Elwood City, Pa.
U. S. Metal & Mfg. Co. (''Howard'' Wrought Iron & Western Railway Equipment Malleable Iron), 165 B'way, New York
Western Railway Equipment Co. (''Western''), St. Louis, Mo.
Western Tool & Forge Co., Brackenridge, Pa.

## 937a–Brake Lining (Asbestos)

**JOHNS, H. W.-MANVILLE CO.** (''J-M Non-Burn''), 100 William, New York. (See adv. index & branch offices, end of book)

## 938–Brake Shoe Wheel Truing

Wheel Truing Brake Shoe Co., The Lenox, Detroit, Mich.

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## 939— Brake Shoes

Adams, S. Jarvis Co., Midland, Pa.
Allen & Morrison Brake Shoe & Mfg. Co. (Driver Steel Back), 234 Michigan av, Chicago, Ill.
American Brake Shoe & Foundry Co. (For Steam & Electric Railways, Locomotive Driving, Steel Back, etc.), Mahwah, N. J.
**American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York**
American Steel Foundries (Open Hearth Steel), 115 Adams, Chicago, Ill.
Baltimore Car-Wheel Co., Fulton Station, Baltimore, Md.
Barbour-Stockwell Co. (Electric Railway), Cambridge, Mass.
Barnum-Richardson Co., Lime Rock, Conn.
Bellwood Mfg. Co., Bellwood, Pa.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buckeye Steel Castings Co., Columbus, O.
Buda Co., Railway Exchange bldg, Chicago, Ill.
Chester Steel Castings Co., Chester, Pa.
Chicago Brake Shoe Co., 277 Dearborn, Chicago, Ill.
Columbia Brake Shoe & Foundry Co., Cincinnati, O.
Franklin Railway Supply Co., 30 Church, New
Fulton Foundry Co., Cleveland, O. York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Lancaster Iron Works ("Lancaster" Safety), Lancaster, Pa.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Love Brake Shoe Co. ("Armbrust"), Fisher bldg, Chicago, Ill.
McCord & Co., Old Colony bldg, Chicago, Ill.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
**MacKINNON BOILER & MACHINE Co.**, Bay City, Mich. (See adv. index, end of book)
Mowry Car Wheel Works, Cincinnati, O.
Murray Iron Works Co., Burlington, Iowa.
National Foundry Co., Youngstown, O.
Otis Spencer Co., 9 Jackson blvd, Chicago, Ill.
**PARKER, J. C. & SONS FIBRE CO.** (Automobile, "Fibre"), New Castle, Del. (See adv. index, end of book)
Parker & Topping ("The Diamond S"), Brainerd, Minn.
Pittsburg Brake Shoe Co., Farmers B'k bldg, Pittsburg, Pa.
Railway Materials Co. (Steel Back), Old Colony bldg, Chicago, Ill.
Ramapo Iron Works, Hillburn, N. Y.
Reliance Steel Casting Co. (Ltd.), Pittsburg, Pa.
**RUSSEL WHEEL & FOUNDRY CO.**, Detroit, Mich. (See adv. index, end of book)
Spear & Miller Co. ("Ideal"), 9 Jackson blvd, Chicago, Ill.
Swett, A. L. Iron Works, Medina, N. Y.
Taylor Electric Truck Co. ("Taylor"), Troy,
Titan Steel Casting Co., Newark, N. J. N. Y.
United States Brake Shoe Co. ("M-C-B." "A-S-J-R-A" Steel Back), White bldg, Buffalo, N. Y.
Vulcan Iron Works ("Reilly"), Toledo, O.
Waterbury Foundry Co., Waterbury, Conn.
Walsh Brake Shoe & Foundry Co., Rock Island, Ill.
Western Steel Car & Foundry Co. (Grey Iron), Old Colony bldg, Chicago, Ill
Wheel Truing Brake Shoe Co. (Wheel Grinders), The Lenox, Detroit, Mich.

## 940—Brake Shoes (Automobile)

**AMERICAN VULCANIZED FIBRE CO.** (Fibre), Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO. (Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Fibre),** Elsmere, Del. (See adv. index, end of book)

## 941—Brake Shoes (Locomotive)

Transue & Williams Co. (Drop Forged), Alliance, O.

## 942—Brake & Electric Car Heating Apparatus (Magnetic)

**WESTINGHOUSE TRACTION BRAKE Co.**, Pittsburg, Pa

## 943— Brakes (Air)

**ALLIS-CHALMERS CO. (Electric),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**NATIONAL BRAKE & ELECTRIC Co.** (Electric), Milwaukee, Wis. (See adv. index & branch offices, end of book)
New York Air Brake Co., 165 B'way, New York
Philadelphia Air Brake & Machine Co. ("Morse Henley"), 1109 S Broad, Phila., Pa.
**WESTINGHOUSE AIR BRAKE CO.** The (Automatic), Pittsburg, Pa.

## 944—Brakes (Air, Storage System)

**WESTINGHOUSE TRACTION BRAKE Co.**, Pittsburg, Pa

## 945— Brakes (Automobile)

Clark, Edward S., 272 Freeport, Boston, Mass
**Columbus Screw & Machine Co., Columbus, O.**
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hayden Automatic & Equipment Co. ("Hayden"), 26 Cortlandt, New York
Kalisch Air Brake Co., 1315 Chestnut, St. Louis, Mo.
Long Arm System Co., Cleveland, O.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
National Brake & Clutch Co., 16 State, Boston, Mass.
Royal Equipment Co. ("Raymond," "Duplex"), Bridgeport, Conn.
Watres Mfg. Co. ("Watres"), 50 Church, New
York, E. S. ("Sprag"), Reading, Pa. York

## Brakes (Car)

(See Brakes, Electric Car)

## 946— Brakes (Coaster)

Aurora Automatic Machinery Co. ("Thor"), Aurora, Ill.
Buffalo Metal Goods Co. ("Atherton"), Buffalo, N. Y.
Corbin Screw Corporation ("Corbin Duplex"), New Britain, Conn.
**Eclipse Machine Co.** ("Eclipse"), Elmira, N. Y.
Forsyth Mfg. Co. ("Forsyth"), 306 Terrace, Buffalo, N. Y.
Hurck Motor & Cycle Co., St. Louis, Mo.
Miami Cycle & Mfg. Co. ("Musselman"), Middletown, O.
New Departure Mfg. Co. ("New Departure"), Bristol, Conn.

## 947— Brake (Disc)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 948— Brakes (Electric Car)

**ALLIS-CHALMERS CO. ("Christensen"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N.Y.
**KILGORE-PETELER CO., Minneapolis. Minn.** (See adv. index, end of book)
Long, E. G. Co. ("Taylor"), 50 Church, New York
McGuire-Cummings Mfg. Co. ("Elastic"), Chicago, Ill.
Massachusetts Steel Casting Co. ("Neal Duplex"), Everett, Mass.
Momentum Automatic Brake Co. ("Momentum" Automatic), 12 B'way, New York
**National Brake Co. ("Peacock," "Ackely,"** Adjustable), Buffalo, N. Y.
National Brake & Electric Co. ("National" Air), Milwaukee, Wis.
National Car Coupler Co. ("Hinson"), Attica, Ind.
New York Air Brake Co., 165 B'way, New York
Philadelphia Air Brake & Machine Co., 1109 S Broad, Phila., Pa.
Sterling-Meaker Co. ("Sterling Safety," "Giant"), 420 Ogden, Newark, N. J.
Taylor Electric Truck Co., Troy, N. Y.
Traction Equipment Co., 72 Grand, B'klyn, N.Y.
U. S. Metal & Mfg. Co., 165 B'way, New York
**WESTINGHOUSE TRACTION BRAKE Co.**, Pittsburg, Pa.

## 949—Brakes (Electric Crane)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. Co.**, Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT Co.** (Direct Current), Harvey, Ill.. (See adv. index & branch offices, end of book)

## 950—Brakes (Electric Motor)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. Co.**, Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT Co.** (Direct Current), Harvey, Ill. (See adv. index & branch offices, end of book)

## 951— Brakes (Flax)

New Winona Mfg. Co., Winona, Minn.

## 952— Brakes (Locomotive)

American Brake Co., St. Louis, Mo.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**New York Air Brake Co.** (Also Tender, Driver, Freight & Passenger Car), 165 B'way, New York
**WESTINGHOUSE AIR BRAKE CO., The, Pittsburg, Pa.**

## 953—Brakes (Magnetic Friction)

**CUTLER-HAMMER CLUTCH CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. Co.**, Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 954— Brakes (Rail)

**Miller Supply Co.** (Friction for Dropping Railroad Cars Under Coal Chutes, etc.), Huntington, W. Va.

## 955— Brakes (Solenoid)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT Co.** (Direct Current), Harvey, Ill. (See adv. index & branch offices, end of book)

## 956— Brakes (Vacuum)

New York Air Brake Co. (& Vacuum Automatic), 165 B'way, New York

## 957— Branders (Cigar)

American Electrical Heater Co. (Electric), Detroit, Mich.

## 958— Brass Altar Rails

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.** Brass, Bronze & Iron), Mt. Vernon, N. Y. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)

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**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O. (See** adv. index & branch offices, end of book)

## Brass Founders

(See Firms in Machinists & Founders Marked Thus: §)

## Brass Founders' Supplies

**(See Foundry Facings & Supplies)**

## 958a Brass (White)

**NEW ERA MFG. CO., Kalamazoo,** Mich. (See adv. index, end of book)

## 959—Brass & Copper Angles, Channels, Etc.

**Ansonia Brass & Copper Co., Ansonia, Conn.**
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York**
Manhattan Brass Co. (Brass & Bronze), 334 E 28th, New York
**MERCHANT & EVANS CO. (Inc.)** (Jobbers), 517 Arch, Phila., Pa. **(See adv. index & branch offices, end of book)**
Michigan Copper & Brass Co., Detroit, Mich.
**Rome Brass & Copper Co., Rome, N. Y.**
**Waterbury Brass Co., Waterbury, Conn.**

## 960—Brasses (Car & Engine)

**Ajax Metal Co., 48 Richmond, Phila., Pa.**
**Atlantic Brass Co., 192 B'way, New York**
**Brady Brass Co., Jersey City, N. J.**
Chicago Journal Bearing Co. (High Grade), 519 W Van Buren, Chicago, Ill.
Continental Car & Equipment Co., 45 E 17th, New York
Duluth Brass Works Co., Duluth, Minn.
Edna Brass Mfg. Co. (For Steam or Electric), Cincinnati, O.
Gilb, V. & Son, Birmingham, Ala.
**Gilbert, A. & Sons Brass F'd'y, St. Louis, Mo.**
Great Lakes Brass Foundry, Bay City, Mich.
Hewitt Mfg. Co., Railway Exch, Chicago, Ill.
Keystone Bronze Co. (High Grade), Pittsburg, Pa.
Magnus Metal Co., Buffalo, N. Y.
**More-Jones Brass & Metal Co., St. Louis, Mo.**
**National Supply Co., Baltimore, Md.**
Newell, J. F. & Co., Gardiner, Me.
Standard Metal Mfg. Co., Rector bldg, Chicago, Ill.

## Brazing Apparatus

**(See Blow Pipes & Brazing Apparatus)**

## 961—Brazing Apparatus (Aluminum)

General Welding Co., Hoboken, N. J.

## 962— Brazing (Cast Iron)

American Ferrofix Brazing Co., Perry bldg, Phila., Pa.
Balster Brazing & Machine Co., 614 E Lombard, Baltimore, Md.
Hauck Mfg. Co., 140 Cedar, New York
New York Brazing Co. ("Ferrofix"), 196 11th av, New York
Pittsburg Reinforced Brazing & Machine Co., Pittsburg, Pa.
Standard Brazing Co., 85 Water, Boston, Mass.

## 963—Breakers (Casting or Scrap)

**Curtis & Co. Mfg. Co. (Compressed Air), St. Louis, Mo.**
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 964— Breakers (Circuit)

Condit Electrical Mfg. Co. ("Eden"), **Boston, Mass.**
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**Cutter Electrical & Mfg. Co. ("I-T-E," "Dalite"), 19th & Hamilton, Phila., Pa**
Fort Wayne Electric Works, Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**Hartman Circuit Breaker Co. (Automatic Oil Circuit for Cars, etc.), Mansfield, O.**
Janette Mfg. Co., 12 S Jefferson, Chicago, Ill.
Kelman Electric & Mfg. Co., Los Angeles, Cal.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.
**Pacific Electric & Mfg. Co., San Francisco, Cal.**
Pittsburg Armature Works, Pittsburg, Pa.
Roller-Smith Co. ("S. E.."), 203 B'way, New York; Works: Bethlehem, Pa.
Sundh Electric Co. ("Sundh"), 115 Cedar, New York
Ward, Leonard Elec. Co., Bronxville, N. Y.
**WESTINGHOUSE ELECTRIC & MFG. Co.** (Alternating & Direct Current), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Breakers (Gyratory)

(See Crushers, Rock & Ore, Gyratory)

## 966— Breakers (Ice)

Allman Gas Engine & Machine Co. ("Champion"), 461 Canal, New York
**AMERICAN TAP & DIE CO. ("Nichols Bros." Hand),** Greenfield, Mass. (See adv. index, end of book)
Blakeslee, G. S. & Co. ("Reinhold" Choppers), 325 Dearborn, Chicago, Ill., & 260 West B'way, New York
Dilg Mfg. & Trading Co. ("Champion"), 401 E 163rd, New York
Gifford-Wood Co. (Long Handle), Hudson, N. Y.
Harrison Safety Boiler Works ("Creasey"), 17th, below Allegheny av, Phila., Pa.
Hartig Standard Gas Engine Co., 14 Commercial, Newark, N. J.
Hiles, C. A. & Co. (For Family Use), 14th & Western av, Chicago, Ill.
Maag-Wahman Co., Baltimore, Md.
Schmidt Bros. Co. ("Little Giant" Crusher), Davenport, Ia.
Stortz, John & Son (Hand), 210 Vine, Phila., Pa
Watkins, Jas. Y. & Son (Inc.), 16 Catharine, New York

## 967—Breakers (Magnetic Re-Set Circuit)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)**
**ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)**
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 968— Breakers (Staybolt)

**(See also Pneumatic Staybolt Breakers)**
Williams, White & Co. ("Lowe," for Boiler Shops), Moline, Ill.

## Breakers (Stone)

(See Crushers, Rock & Ore)

## 969— Breakers (Tailing)

Atlanta Utility Works, East Point, Ga.
Hancock-Holmes Foundry & Machine Works, Atlanta, Ga.

## 970— Breakers (Vacuum)

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

## 971—Breakers & Cleaners (Coal)

**PITTSBURG CONVEYING MACHINERY Co., Pittsburg, Pa. (See adv. index, end of book)**

## Brick (Ashlar)

(See Architectural Faience)

## 972— Breechings

(See also Tank Mfrs.)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 973—Brewers' Aluminum Supplies

Aluminum Goods Mfg. Co., Manitowoc, Wis.

## 974— Brick Handler

Union Specialty Mfg. Co., Pittsburg, Pa.

## 975— Brick (Acid Proof)

Denny-Renton Clay & Coal Co. (For Chemical Works), Seattle, Wash.
Graham, Chas. Chemical Pottery Works, Brooklyn, N. Y.
Laclede-Christy Clay Products Co., St. Louis, Mo.
Louisville Fire Brick Works, Highland Park, N. J.
Ostrander Fire Brick Co., Troy, N. Y.
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
United States Stoneware Co., Akron, O.
Weeks, A. J., Akron, O.

## 976— Brick (Air Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 977—Brick (Annealing Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 978— Brick (Bauxite)

Laclede-Christy Clay Products Co., St. Louis, Mo.

## 979—Brick (Bessemer Converter)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 980— Brick (Blast Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
Ashland Fire Brick Co., Ashland, Ky.
Bickford Fire Brick Co., Curwensville, Pa.
Brighton Fire Brick Co. (Hot Blast Stove Linings), New Brighton, Pa.
**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Haws, A. J. & Sons (Ltd.), Johnstown, Pa.
Stowe-Fuller Co., Cleveland, O.

## 981—Brick (Boiler Arch & Setting)

American Arch Co. (Solid & Hollow Locomotive Brick Arches), 30 Church, New York
**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
Evens & Howard Fire Brick Co., St. Louis, Mo.
Garfield Fire Clay Co. (Fire Brick), Robinson, Pa.
**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**McLEOD & HENRY CO. (Fire Brick,** Steel Mixture), Troy, N. Y. (See adv. index, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)
Presbrey Stove Lining Co., Taunton, Mass.
**SAYRE & FISHER CO., 261 B'way,** New York; Works: Sayreville, N. J. (See adv. Front Inside Cover)

## 982— Brick (Brick Kiln)

**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

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## 983—Brick (Bullion Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTOR-** ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 984—Brick (Calcium Carbide Kiln)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTOR-** ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 985— (Brick (Cement)

Harper Brick Co., Harrison, N. J.
White Marble Lime Co., Manistique, Mich.

## 986— Brick (Cement Kiln)

**ASHLAND FIRE BRICK CO., Ash-** land, Ky.

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTOR-** ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 987—Brick (Chemical Works)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTOR-** ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. index, end of book)

## 988— Brick (Chrome)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

Federal Refractories Co., Cleveland, O.

**HARBISON-WALKER REFRACTOR-** ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 989— Brick (Clinker)

**SAYRE & FISHER CO. (Dutch), 261** B'way, New York; Works: Sayreville, N. J. (See adv. Front Inside Cover)

## 989a—Brick (Clinker Paving)

**FLEMING & CO. (Adamantine Clink-** er), 253 B'way, New York. (See adv. index, end of book)

## 990— Brick (Coke Oven)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTOR-** ies Co. (Beehive, Long or Belgian Type, etc.), Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 991—Brick (Coke Oven By-Product Special Shapes)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTOR-** ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 992— Brick (Common)

(See also Brick, Enameled; Brick, Fire; Brick, Front; Brick, Vitrified Paving; Blocks, Hollow Building; Conduits; Fireproof Hollow Brick & Tile; Plumbers' Sanitary Earthenware; Roofing Tile, Terra Cotta; Sewer Pipe Manufacturers; Terra Cotta, Architectural; Tile, Art, etc.)

### ALABAMA.

**ASHBY—Ashby Brick Co.**
BIRMINGHAM—**Ashby Brick Co.**
Birmingham Sand & Brick Co.
**Copeland Brick Co., 44 E Birmingham**
**Graves Shale Paving Brick Co.**
BREWTON—**Strong, W. H. Brick Co.**
BRICKYARD—**Bickerstaff Brick Co.**
CHOCCOLOCCO—Morris Brick Co.
DEMOPOLIS—**McGrath Bros.**
ELBA—**Perdue, W. B.**
FORT PAYNE—Ladd-Birchy Brick Co.
GREENVILLE—**Terrell, W. C.**
HOLLYWOOD—Alabama Brick & Tile Co.
HUNTSVILLE—**Huntsville Brick Co.**
MOBILE—Kentz, Jos.
MONTGOMERY—**Excelsior Brick Co.**
Holt Brick Co.
**Jenkins Brick Co.**
**Montgomery Brick & Tile Co.**
NEW DECATUR—North Alabama Brick Co.
RAGLAND—**Wilpicoba Clay Works (Inc.)**
SELMA—**Selma Brick & Tile Co.**

### ARIZONA TERRITORY.

TUCSON—Tucson Pressed Brick Co.

### ARKANSAS.

FORT SMITH—Burke Brick Co.
Carbough Brick & Tile Works
Sulphur Springs Brick Co.
LITTLE ROCK—Arkansas Brick & Mfg. Co.
PINE BLUFF—Pine Bluff Brick Co.
TEXARKANA—Stevens, A. W.
Texarkana Brick Co.

### CALIFORNIA.

ALAMEDA—Clark, N. & Sons
BAKERSFIELD—Bakersfield Sandstone Brick Co.
LOS ANGELES—California Ornamental Brick
K. & K. Brick Co. Co.
Los Angeles Pressed Brick Co.
Simons Brick Co.
So. California Brick Co.
Standard Brick Co.
OAKLAND—Remillard Brick Co., 659 Clay
PASADENA—**Simons Brick Co.**
REDLANDS—Taylor Bros. Brick Co.
SAN DIEGO—Hubbard, Robert M.
SAN FRANCISCO—Bay View Brick Co.
California Brick & Pottery Co.
Carnegie Brick & Pottery Co.
Clark, N. & Sons
Patent Brick Co.
Richmond Brick Co.
SAN JOSE—San Jose Brick Co.
STOCKTON—San Joaquin Brick Co.

### COLORADO.

COLORADO SPRINGS—Brewer, Ben. Brick Co.
Schlessinger Bros.
DENVER—Denver Sewer Pipe & Clay Co.
Denver Shale Brick Co.
Excelsior Brick Co.
Fairview Brick Co.
Rowe, E. E. & Co.
Western Brick & Construction Co.
LA JUNTA—La Junta Brick & Tile Co.
MONTROSE—Buckley, Geo. A.
PUEBLO—Colorado Brick & Tile Co.

### CONNECTICUT.

BERLIN—American Brick Co.
Berlin Brick Co.
Donnelly Brick Co.
Jacobs Brick Co.
Kensington Brick Co.
Merwin, C. P. Brick Co.
Murray, Richard
Standard Brick Co.
EAST WINDSOR HILL—East Windsor Hill
HARTFORD—Dennis, Thomas Brick Works
Dorr, Cephas
Kane, Michael
Mills, Eugene D.
Parkville Electric Brick Co.
MIDDLETOWN—Tuttle Brick Co.
NEW BRITAIN—Holmes, Jno. W.
New Britain Brick Co.
Towers, Joseph S.
NEW HAVEN—Davis, Wm. E. & Co.
Howard Co.
Montowese Brick Co., 116 Church
O'Neill, H. Coady
Stiles, I. L. & Son Brick Co.
SOUTH NORWALK—Raymond Bros.
TORRINGTON—Hotchkiss Bros. Co.
WILSON—Baker, Fred
Wilson Brick Co.

### DELAWARE.

DELMAR—Elliott, W. B.
LINCOLN—Sackett, Chas. H. & Co.
NEWPORT—Kiamensi Clay Works
WILMINGTON—Allen, Alvan Brick Co.
Delaware Terra Cotta Co.
Oberly, James B.
Wilmington Brick Co.

### DISTRICT OF COLUMBIA.

ANACOSTIA—New Anacostia Brick Co.
WASHINGTON—Hydraulic Press Brick Co.
Martin & Bro.
New Washington Brick Co.
Potomac Brick Co.
Rosslyn Brick Co.
Virginia Brick Co.
Walker, Wm. T. Brick Co.
Washington Brick & Terra Cotta Co.
West Bros. Brick Co.

### FLORIDA.

CALLAHAN—Mickler, Oscar O
CAMPVILLE—Maultsly, J. A.
JACKSONVILLE—Jacksonville Brick Co.
MULBERRY—Merritt, W. E.
PINE BARREN—McMillan Brick Co.
SORRENTO—Sorrento Brick & Lumber Co.
TALLAHASSEE—Tallahassee Pressed Brick Co.

### GEORGIA.

ALBANY—Flint River Brick Co.
ATHENS—Georgia Brick Co.
Oconee Brick Co.
ATLANTA—Calhoun Brick Co.
Chattahoochee Brick Co., Fourth Nat'l B'k
Hood, B. Mifflin bldg
Palmer Brick Co., Fourth Nat'l B'k bldg
South River Brick Co., 24 Walton
Wilpicaba Clay Works (Inc.)
AUGUSTA—**Dunbar, B. S.**
Georgia-Carolina Brick Co.
McCoy Brick & Tile Co.
McKenzie Brick Co.
Merry Bros.
Rutherford & Co.
Standard Brick Co.
BAINBRIDGE—Patterson, L. F.
BRUNSWICK—Odess, A. Brick Co.
CALHOUN—Calhoun Brick Co.
COLUMBUS—Columbus Fire Brick Co.
Crawford, A. L.
Howard, Homer M.
Shepherd Bros.
DAWSON—Oglethrope Brick Mfg. Co.
DUBLIN—Pittman, J. C.
ELBERTON—Elberton Brick Co.
GAINESVILLE—Deal, C. L.
Pfeffer, Mrs. P.
Wheeler, G. R.
GRIFFIN—Griffen Press Brick Co.
MACON—Bibb Brick Co.
Central Georgia Brick Co.
Cherokee Brick Co.
Farrish Brick Co.
Harris, C. A.
Jelks, E. N.
Jeter Supply Co.
Jones Bros.
Macon Brick Co.
MILLEDGEVILLE—Milledgeville Brick Works
Oconee Brick & Tile Co.
ROME—Morrison Trammell Brick Co.
Rome Brick Co.
SAVANNAH—Savannah Brick Works
THOMASVILLE—Mallette & Arnold Brick Co.
UNION POINT—Ogeechee Brick Co.
WASHINGTON—Barnett, O. S.
Washington Brick Co.
WEST POINT—McPherson, N. B.

### IDAHO.

GRANGEVILLE—Holtz, Valentine & Son
LEWISTON—Idaho Brick Co.
SALMON CITY—Lemhi Brick & Lime Co.

### ILLINOIS.

ABINGDON—Abingdon Paving Brick & Tile Co.
ALBION—Albion Vitrified Brick Co.
ALEDO—Aledo Brick & Tile Co.
ALTON—Acme Pressed Brick Co.
Alton Brick Co.
Corbett, Thos.
ARMSTRONG—Hamer, J. W. (Tile Only)
ASHKUM—Comstock, C. H. Co. (Tile Only)
ASSUMPTION—Consolidated Electric & Mfg.
AURORA—Solfisburg & Sons
AVON—Avon Milling & Mfg. Co.

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BARTELSO—Sundruf, Aug.
BARRY—Chilton, C. H.
BEARDSTOWN—Meyer, H. C.
BEAVERVILLLE—Beaverville Brick & Tile Co.
BELLEVILLE—Belleville Brick Co.
Ittner, A. Brick Co.
Kloess Brick Co.
Standard Brick Co. (Capacity 12,000,000)
BELMONT—Hillegman, Ernest & Sons
BENSON—Peterson, Simon
BENTON—Benton Brick Co.
BETHANY—Fortner, W. D.
BLANDINSVILLE—Hainlive Bros.
BLOOMINGTON—Bloomington Pressed Brick Co.
Heafer, Edgar M. Tile Co.
Riley & Haefer
BUDA—Churchill, Horatio
CAIRO—Ferguson, Thos. & Co.
Halliday, W. R.
CAMBRIDGE—Hull, Jno. L.
CAMPUS—Mamer Bros.
CANTON—Heckard, M. & Sons
Roller, Geo. B.
Sweet, C. R.
CAPRON—Munson Bros.
CARBON CLIFF—Argillo Works (See Rock Island, Ill.
CARLINVILLE—Moody, John & Son
CARMI—Griffith & Randolph
CARRIERS MILLS—Platt, H. H. Brick & Lumber Co.
CARTERVILLE—Carterville Brick Co.
CASEY—Weaver, Chas.
CHAMPAIGN—Sheldon Brick Co.
Stipes, Jno. W. Sr.
CHANDLERVILLE—Zorn, Aug.
CHATSWORTH—Walter, Geo. J.
CHICAGO—American Brick Co., 134 Washing-
Bach Brick Co., 2647 Montrose blvd
ton Bonner & Marshall Co., Chamber of Commerce bldg
Burke, Alex. S., cor 40th av & W 19th
Calumet Brick Co., Chamber of Com. bldg
Chicago Brick Co., 138 Washington
Heimann, G. J. & Co., Irving Park blvd & California av
Hydraulic Press Brick Co., 138 Washington
Illinois Brick Co., 138 Washington
Kelly, A. W. & Co., 113 W 63d
Kemnitz Brick Co., 1100 Oakdale av
Kimbell. S. S. Brick Co., 138 Washington
Lakeview Brick Co., 2640 Irving Park blvd
National Brick Co., 84 Lasalle
Sexton, John M. L., 1459 Michigan av
COAL VALLEY—Hass, Jno. T. & Son
COLCHESTER—King Bros.
COLLINSVILLE—Hydraulic Press Brick Co.
CULLOM—Ortman, F. A.
DANVILLE—Danville Brick Co.
Western Brick Co. (Yearly Capacity 60,000,000 Wire Cut & Re-Pressed)
DECATUR—Decature Brick Co.
DELAND—Moody, R. B.
DELAVAN—Tillbury, W. C.
DUNDEE—Haeger, D. H. (Est. of)
EARLVILLE—Earlville Brick & Tile Mfg. Co.
EAST PEORIA—Carter, F. R.
EDWARDSVILLE—Banner Clay Works (Building & Sewer)
Richards Brick Co.
ELDORADO—Eldorado Brick Co.
West, L. F.
ELGIN—Elgin Brick & Tile Co.
EQUALITY—McIntyre, Wm. & Son
FARMER CITY—Arbogast, D. H. & Son
FREEPORT—Grant, Thos.
Trunck, F. G. & Son
GALESBURG—Purington Paving Brick Co.
GILMAN—Wild, James W.
GRAYVILLE—Wheatcraft, W. G. & Sons
HAMPSHIRE—Backus & Sholes
HIGHLAND—Miller, Louis
HILLSBORO—Hillsboro Brick & Tile Co.
HUTSONVILLE—Hutsonville Brick & Tile Co.
JACKSONVILLE — Jacksonville Sand, Cement
JOLIET—Shaw, Josiah E. & Brick Co.
Shaw, Silas, Brick Co.
KANKAKEE—Kankakee Tile & Brick Co. (Drain Tile)
LA SALLE — La Salle Pressed Brick Co.
LITCHFIELD—Keese & Chamberlin Bros.
LODA—Loda Brick & Tile Works
LOMBARD—Lombard Brick & Tile Co.
LOSTANT—McShane, Richard
MACKINAW—Judy, F. D.
MANCHESTER—Heaton, J. M. (Tile)
MARTINSVILLE—Snavely, L. C.
MASCOUTAH—National Pressed Brick Co.
MATTOON—Mattoon Tile Co.
MAZON—Condon, James
METCALF—Jones, J. H. & Son
METCALF—Jones, J. H.
MILFORD—Marquis, D. M.
MINONK—Goodwin Bros.
MOLINE—Abraham, Jacob & Son
MOMENCE—Tiffany Enameled Brick Co.
MONMOUTH—Monmouth Brick & Tile Co.
MONTICELLO—Lodge, W. F.
MORRIS—Buck Bros.
MOUNT OLIVE—Mount Olive Brick & Tile Co
MOUNT VERNON—Mt. Vernon Press Brick Co.
MOWEAQUA—Corrington, W. E.
Frazee, Oscar
NAPERVILLE—Martin & Van Oven
NASHVILLE—Nashville Press Brick Co.
OKAWVILLE—Schlechte, Wm.
OLNEY—Olney Paving Brick & Tile Mfg. Co
ONARGA—Barnes, Horace
OTTAWA—Swift Terra Cotta Brick & Tile Co
PANA—McCarty Bros.
Stonnger & Biehl
PAXTON—Gourley, Wm. O.
PEKIN—Jansen, Jno. D.
PEORIA—Fox, William
Giles, Albert E.
Randall, Albert
PERU—Unzicker, Robert
PETERSBURG—Anderson, Chas. (Tile)
Salveson Bros.
PITTSFIELD—Huseman, August
PLAINFIELD—Townill, Hewson & Sons (Tile)
POLO—French, Arthur (Tile)
PRINCETON—Hansen Bros.
Oberschelp, H. G. (Tile)
Wagner, Jacob
QUINCY—Abbott, Wm. R.
Damhorst Bros.
Gem City Press Brick Co.
Spilker, Adolph & Sons
RAMSEY—McKnight, H. B.
RAY—Ray Tile Works
REDDICK—Reddick Brick & Tile Co.
ROBERTS—Anderson & Kenyard
ROCKFORD—Superior Brick Co.
ROCK ISLAND—Atkinson, Oloff
Graham, John W.
Paulson, Hans
Richmond, Geo. H.
SHELBYVILLE—Martz Bros.
SPRINGFIELD—Bartelme, Peter M.
Dawson Brick & Tile Co.
Springfield Paving Brick Co.
STREATOR—Barr Clay Co.
National Drain Tile Co. (Drain Tile Only)
Streator Paving Brick Co. (Building, Sidewalk & Foundation)
SULLIVAN—Witts & Witts
TAYLORVILLE—Anderson Bros.
THOMASBORO—Peters, F. J. & W. M. (Tile)
TROY—Troy Press Brick Co.
URBANA—Sheldon Brick Co.
UTICA—Utica Fire Brick Co.
VANDALIA—Shaw, White & Co. (Brick & Tile)
WADSWORTH—Cashmore, John
Winter, I. S. & Sons
WALNUT HILL—Walnut Hill Press Brick Co
WATERLOO—Burkhardt, Jacob
WAVERLY—Waverly Brick & Tile Co.
WENONA—Wenona Tile & Brick Works
WEST BROOKLYN—Beale, J. M. & Co.
WOODSON—Kitner, F. H.
YORKVILLE—Tarbox, A. & E.
ZENOBIA—Mallihan, Dave

## INDIANA.

AKRON—Gast, A. A. (Tile)
ALBION—Landgraff, Frank
ANDERSON—Davis Bros. (Drain Tile)
Indiana Brick Co. (Daily capacity 150,000)
ANGOLA—Angola Brick & Tile Co.
ATTICA—Poston, Clarence E.
BARNARD—Hill. J. C. (Tile)
BERNE—Berne Brick Co.
Gottschalk, A. Z. (Tiles)
BIPPUS—Bippus Tile Co.
BOONVILLE—Industrial Brick Works
Klostermeier, L. & Son
Kroeger, Fred.
BRAZIL—Brazil Clay Co.
Chicago Sewer Pipe Co.
Indiana Paving Brick & Block Co.
Sheridan Brick Works
BROOK—Brook Terra Cotta Tile & Brick Co
BROOKVILLE—Fries, Anthony & Sons
CLAY CITY—Clay City Brick & Clay Co.
Kaiser, Geo. G.
CLINTON—Clinton Paving Brick Co.
COATESVILLE—Ellis, E. R.
COLFAX—Lee, M. J. Drain Tile Co. (Drain Tile Only)
COLUMBUS—Crump, F. T.
Glick, Chas. D.
CONNERSVILLE—Fries, A. & Sons
CRAWFORDSVILLE—Crawfordsville Shale Brick Co.
Poston Paving Brick Co.
Standard Brick Co.
CURTISVILLE—Curtisville Tile & Brick Co.
DECATUR—Krick, Tyndall Co.
DELPHI—Clauser, W. H. & Sons
EGERTON—Anspach, J. P. & Son
ELKHART—Boss, J. K. Son's Co.
EVANSVILLE—First Avenue Brick & Tile Co.
Helfrich Lumber & Mfg. Co.
Standard Brick Mfg. Co.
Wedeking, Ernest
FORT BRANCH—Polk & Genung
FORT WAYNE—Fort Wayne Brick Co.
Moellering, W. H. F.
Moellering's, Wm. Sons
FRANCESVILLE—Francesville Clay Product
FRANCISCO—Stormont & Bro. (Tile) Co.
FREELANDVILLE—Hummerich, B. (Tile)
Meyer, Chas.
FULTON—Swick & Co.
GOSHEN—Goshen Brick Co.
GREENFIELD—Greenfield Brick Co.
GREENSBURG—Isgrigg, W. H. & Son
HARTFORD CITY—Meridith & Croninger
HOBART—Kulage Brick Works (Drain Tile)
HOMER—Arbuckle & Son
HUNTINGBURG — Huntingburg Dry Pressed
HUNTINGTON—Holzingle, F. F. Brick Co.
Huntington Brick Co.
INDIANAPOLIS—Adams Brick Co., 230 E Ohio
Bremer, Fred'k, Sherman Drive
Eilering, Herman, Bethel av nr Zwingley
Indiana Paving Brick & Block Co., Traction Terminal bldg
Magennis, Jas., Sherman Drive
Marion Brick Works, 230 E Ohio
Sheridan Brick Works, 230 E Ohio
Western Brick Co., Indiana Pythian bldg
JEFFERSONVILLE—Jeffersonville Brick Co.
KNOX—Lewis, Wm. A.
KOKOMO—Colonial Brick Co.
Leach, J. M.
LAFAYETTE—May, Jacob & Sons
LAWRENCEBURG—Mitchell Brick Co.
LEO—Conrad, Jno.
LINTON—Linton Brick Mfg. Co.
LOGANSPORT—Barnes, Jas. I.
LYNN—Lynn Tile & Brick Mfg. Co.
MARION—Madison Brick Co.
Marion Brick Works
MARTINSVILLE—Adams Brick Co.
Martinsville Brick Co.
MICHIGAN CITY—Ohlemacher Brick Co.
Roeske Bros.
MILLGROVE—Inman Tile Co. (Tile)
MONROE—Lewellen, Z. O. (Tile)
MONTEZUMA—Marion Brick Works
MONTMORENCI—Kneale, Henry (Tile)
MOORESVILLE—Bradley Brick Co.
MOUNT VERNON—Industrial Brick Co.
MUNCIE—Mock, J. D. Brick Co.
NEW ALBANY—Goetz Pressed Brick Co.
Hoosier Brick Co.
NEWCASTLE—Newcastle Brick & Tile Co.
NEW RICHMOND—Lee & Casey (Drain Tile)
NORTH VERNON—North Vernon Lumber Co.
OAKVILLE—Holsinger, J. T.
OSSIAN—Beaty & Doan Co.
PERU—Clifton, John & Son
PONETO—Cook, J. W. (Tile)
PORTER—Hydraulic Press Brick Co.
PREBLE—Werling, Albert (Tile)
PRINCETON—Watt & Mitchell
RICHMOND—Richmond Brick Co.
ROACHDALE—Rice, James A. & Son
RUSHVILLE—Bainbridge, Wm. M.
Rushville Brick Co.
ST. MEINRAD—St. Meinrad Brick & Tile Co.
SEYMOUR—Kasting, W. L. & Co.
SOUTH BEND—South Bend Brick Co.
TERRE HAUTE—Bennett, Jacob & Sons
Bergman, Wilbo
Guernsey Clay Co.
Terre Haute Pressed Brick Co.
Terre Haute Vitrified Brick Co. (Building & Sewer)
VALPARAISO—Covert & Young (Tiles)
Lembke, Chas. & Co.
VEEDERSBURG—Wabash Clay Co.
VINCENNES—Kixmiller, S.
Prullage, Jno. B.
WASHINGTON—Kretz, Joseph
WINDFALL—Windfall Mfg. Co.
WOODBURN—Woodburn Tile & Brick Co.

## IOWA.

ADEL—Harris, S. J. & Co.
AFTON—Spencer, D. J.
AUDUBON—Tramp & Tramp (Brick & Tile)
BARNES CITY—Wilson, Ollie & Co.
BOONE—Boone Brick Tile & Paving Co.
BRIDGEWATER—Cass, C. H.
BURLINGTON—Burlington Brick Co.
Granite Brick Co.
CAMBRIDGE—Bonham & Son
CEDAR RAPIDS—Stookey, D. W. (Tile)
CENTERVILLE—Centerville Brick Co.

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CLARINDA—Crabhill, J. M.
COLUMBUS JUNCTION—Oakes, Geo. W.
COUNCIL BLUFFS—Wickham, Jas. & O. P.
CRESCO—Marshall, C. A.
CRESTON—Tramp Bros.
DAVENPORT—Black Hawk Brick Co.
Davenport Brick & Tile Co.
Pohlmann & Co.
DENISON—Green & Ward
DES MOINES—Des Moines Brick & Tile Co.
Des Moines Clay Mfg. Co.
Flint Brick Co.
Frost Pressed Brick Co.
Goodwin Tile & Brick Co.
Iowa Brick Mfg. Co.
Iowa Pipe & Tile Co.
Maine, James & Sons Co.
Shakelford Brick Co.
Star Brick Co.
DE SOTO—De Soto Brick & Tile Works
DOWS—Wilson, J. A.
DUBUQUE—Heim, Mrs. Agatha
DYSART—Dysart Brick & Tile Co.
ELDORA—Eldora Pipe & Tile Co.
ESTHERVILLE—Estherville Brick & Tile Co.
FAIRFIELD—Fairfield Brick & Tile Co.
Raney Bros.
FONDA—Straight Bros. Co.
FORT DODGE—Bradshaw, H. R. & Co.
Fort Dodge Brick & Tile Works
FREMONT—Dawson, J. & Co.
GARRISON—Garrison Brick & Tile Co.
GLADBROOK—Gethmann Brick Co.
Stauffer, Geo. M.
GOLDFIELD—Conger & Whyte
GRAND JUNCTION—Goodwin Tile & Brick Co
GRUNDY CENTER—Grundy Center Brick & Tile Co.
HAMBURG—Johnson, C. S.
HEDRICK—Heidenreich, F. W.
IOWA CITY—Oaks Bros.
IOWA FALLS—Iowa Falls Brick & Tile Co.
KALO—Central Brick & Tile Co.
Kalo Brick & Tile Co.
KELLOGG—Kellogg Brick & Tile Works
KEOKUK—Gate City Brick Co.
Spaan, Herman
KEOTA—Leacox, Sam'l G.
LAKE CITY—Lake City Marble & Granite Works
LEHIGH—Campbell, James
Lehigh Clay Products Co.
LYNNVILLE—Newby, C. H.
Newby & Macy
MACEDONIA—Dye, W. & Co.
MARSHALLTOWN—Finkle, I. S.
MARTINSBURG—Hall, James (Tile)
MASON CITY—American Brick & Tile Co.
Farmers' Co-Operation Brick & Tile Co.
Mason City Brick & Tile Co.
Mason City Clay Works
North Iowa Brick & Tile Co.
MAXWELL—McHose, Chas. E.
MEDIAPOLIS—Johnson, A. H.
MUSCATINE—Muscatine Pressed Brick Co.
Nyenhuis Bros.
NEVADA—McHose, S. M.
NEWTON—Henning, Wm.
NORTH ENGLISH—Smith, E. J. & Sons
OSCEOLA—Seigle, M. C.
OSKALOOSA—Oskaloosa Paving Brick Co.
OTTUMTWA—Ostdiek, H. B.
Ottumwa Brick & Construction Co.
POLK—Bullington, Cyrus
REDFIELD—Redfield Brick & Tile Works
ROCK VALLEY—Kuehne, A. H.
SERGEANT BLUFF—Haskins, L. J.
Holman Brick Co.
SHEFFIELD—Sheffield Brick & Tile Co.
SHELLSBURG—Shannon, E.
SIDNEY—Carter, Samuel O.
SIOUX CITY—Lower Brick Co.
Sioux City Brick Co.
Sioux City Brick & Tile Co.
Sioux Paving Brick Co.
STORM LAKE—Russell, J. M. (Tile)
STUART—Piner, John
TOLEDO—Toledo Brick & Tile Co.
VAN METER—Platt Pressed & Fire Brick Co.
WASHINGTON—Shields & Son
WATERLOO—Waterloo Granite Brick Co.
WEBSTER CITY—Webster City Brick & Tile Co.
WELLMAN—Adams, Ira C.
WHAT CHEER—Nicholson, G. G.
WINFIELD—Pierce, L. B.

## KANSAS.

ATCHISON—Atchison Paving Brick Co.
BUFFALO—Buffalo Brick Co.
BURLINGTON—Batdorf & Co. (Tile & Brick)
CANEY—Caney Brick Co.
CHANUTE—Chanute Brick & Tile Co.
Hydraulic Press Brick Co.
CHERRYVALE—Federal Betterment Co.
Southwestern Brick Co.
COFFEYVILLE—Coffeyville Vitrified Brick & Tile Co.
EUREKA—Murphy, Joe
FORT SCOTT—Fort Scott Brick Co.
FREDONIA—Fredonia Brick Co.
HUMBOLDT—Cleveland Vitrified Brick Co.
Humboldt Brick Mfg. Co.
INDEPENDENCE — Coffeyville Vitrified Brick & Tile Co.
IOLA—Iola Brick Co.
Union Brick Co.
KANSAS CITY—Kansas City Hydraulic Press Brick Co.
LAWRENCE—Lawrence Vitrified Brick & Tile Co.
LINDSBORG—Swanson, A. J.
NEODESHA—Kansas Buff Brick & Mfg. Co.
Verdigris Valley Vitrified Brick & Tile Co.
OTTAWA—Ottawa Brick & Tile Co.
PITTSBURG—Pittsburg Paving Brick Co.
SALINA—Salina Vitrified Brick Co.
TOPEKA—Capital City Vitrified Brick & Paving Co.
Federal-Betterman Co.
Lumberman's Supply & Metal Co.
WICHITA—Wichita Hydraulic Stone & Brick Co.

## KENTUCKY.

ASHLAND—Ashland Fire Brick Co.
Gates Brick Co.
O'Kelly Brick Co.
BARBOURVILLE—Barbourville Brick & Tile Co.
BARDWELL—Ward, W. G.
BOWLING GREEN—Knight, George I.
CARROLLTON—Carrollton Brick Co.
CLINTON—Harpole, John A.
COVINGTON—Busse Brick Co.
Meier, A. & Co.
DANVILLE—Dillehay Brick Co.
FULTON—Bransford, G. H. & Son
HARTFORD—Bean Bros.
HENDERSON—Kleymeyer-Klute Brick & Tile Works
HOPKINSVILLE—Dalton Bros.
LEBANON—Goodin, R. L.
LEXINGTON—Central Kentucky Brick & Tiling Co.
Lexington Brick Co.
LOUISVILLE—Bishop, Theophilus
Hydraulic Brick Co.
Louisville Brick Co.
McCollum, J. P.
Southern Brick & Tile Co.
Unit Brick & Tile Co.
MADISONVILLE—Hall, W. L.
MAYSVILLE—Maysville Brick Co.
Sphar Pressed Brick Works
NEW HAVEN—Nelson Brick & Tile Co.
NEWPORT—Newport Brick, Coal & Supply Co.
Newport Pressed Brick & Stone Co.
PADUCAH—Katterjohn Brick Co.
PRINCETON—Princeton Brick Co.

## LOUISIANA.

ALEXANDRIA—Adams, C. N.
BATON ROUGE—Baton Rouge Brickyard
BREAUX BRIDGE — Breaux Bridge Brick & Milling Co.
CLINTON—Clinton Brick & Mercantile Co.
DELHI—Delhi Brick Co.
DONALDSONVILLE—Cire Bros.
Milholland, George
FRANKLIN—Bodin, Eugene
HAMMOND—Hammond Brick Co.
INDEPENDENCE—Campbell, S. J.
GENTWOOD—Kent, Amos Lumber & Brick Co.
LABADIEVILLE—Achee, Elphez
MARKSVILLE—Neck Bros. Co.
MONROE—Monroe Brick Co.
NEW ORLEANS—Mutual Brick & Supply Co.
Pelican Pressed Brick Co.
Salmen Brick & Lumber Co.
NEW ROADS—New Roads Brickyard
PLAQUEMINE—Plaquemine Brickyard
RUSTON—Randolph, J. R.
SHREVEPORT—Oliff-McCormick Brick Co., Ltd.
Oliff-McCormick Brick Co., Ltd.
SLIDELL—Salmen Brick & Lumber Co.
THIBODAUX—Southern Investment Co.

## MAINE.

BANGOR—Bangor Brick Co.
BREWER—Brooks Brick Co.
BRUNSWICK—Hacker, C. E.
ELIOT—Clark, Samuel (Est. of)
King, Joseph
Raitt, Chas. A.
Rowe, Alvin L.
Tandreault, Joseph
LEWISTON—Pettingill, Geo. S.
LISBON FALLS—Desjardins, Louis & Co.
Goddard, T. T.
MECHANIC FALLS—Mechanic Falls Brick Co.
ORLAND—Gross, Fred. B.
Hutchins, A. W. & A. B.
Leach, Wendall
PENOBSCOT—Leach, Ellery
Leach, Otis
PORTLAND—Densmore, Samuel B.
Hamblet, Melvin
Lucas, Wm.
SACO—Saco Brick Co.
SKOWHEGAN—Purinton, Horace Co.
WATERVILLE—Procter & Bowie Co.
Purinton, H. Co.

## MARYLAND.

BALTIMORE—Baltimore Brick Co., Maryland Trust bldg
Burns & Russell Co., American bldg
Champion Brick Co., 206 Courtland
Hydraulic Press Brick Co.
Independet Brick Co., Md. Trust bldg
BUCKEYESTOWN — Thomas, C. F. & Son
CAMBRIDGE—Cambridge Brick Co. Brick Co.
CRISFIELD—Collins, George M.
CUMBERLAND—Queen City Brick & Tile Co.
ELKTON—Gilpin, Jno.
FREDERICK—Frederick Brick Works
FROSTBURG—Savage Mountain Firebrick Co.
HAGERSTOWN—Henson Brick Supply Co.
Pryor, James E. S.
NORTH EAST—Greenhill Fire Brick Co.
United Firebrick Co. (Fire Clay Products)
POCOMOKE CITY—McMichael, Hugh
RIDGELY—Stayer, D. S. & Sons
ROBERTS—Smith, R. J.
ST. MICHAELS—Hope, Clifton.
SALISBURY—Peninsular Brick Co.
Salisbury Brick Co.
SNOW HILL—Lewis, W. S. & Son
WILLIAMSPORT—Conocheague Brick & Earthenware Co.

## MASSACHUSETTS.

BOSTON—Boston Brick Co., 166 Devonshire
Cook, E. L., 166 Devonshire
Day, E. F. & Co., 166 Devonshire
Eastern Terra Cotta Brick & Tile Co., Old South bldg
Fiske & Company (Inc.), 25 Arch.
New England Brick Co., 178 Devonshire
Parry Brick Co., 166 Devonshire
Spiers-Fish Brick Co., 79 Milk
Thomas Bros., 46 Cornhill.
Works, Turner's Falls, Mass.
Washburn, D. & Sons, 166 Devonshire.
Works, Everett, Mass.
BRIDGEWATER—Bassett, Josiah G.
Cook, Ernest L., opp Conant, nr R. R.
EASTHAMPTON—Coyle, Bartley & Son
EVERETT—Washburn, D. & Sons
FITCHBURG—Fitchburg Brick Co.
GREENFIELD—Dyer, C. C.
HOLYOKE—Holyoke Brick Co.
Lynch Bros. Brick Co., 206 High
Prew, Jno. J.
IPSWICH—Brown, W. G.
LENOX—Mahanna, William
LEOMINSTER—Osborne, William L.
LYNN—Blakely, Geo. C.
Graham, F. J.
MONTAGUE—Mass. Brick Co.
MONTAGUE CITY—Burnham, A. C. & F. G.
NORTHAMPTON—Bailey, W. A.
Matthews, Henry
PALMER—Marcy & Gardner
REVERE—Edmester, Elijah B.
SPRINGFIELD—Hampden Brick Works
Springfield Brick Co.
WEST BARNSTABLE—West Barnstable Brick Co.
WESTFIELD—Westfield Brick Co.
WILLIAMSETT—Phillips, E. K.
WORCESTER—Boucher, Jos. 180 Plantation

## MICHIGAN.

ALLEGAN—Allegan Brick Co.
ANN ARBOR—Ann Arbor Brick Co.
Britton Pressed Brick Co.
ASHLEY—Stevenson, David & Sons
AZALIA—Meyers Bros.
BANGOR—Stewart, James
BENTON HARBOR—Benton Harbor Brick & Tile Co.
BIRMINGHAM—Birmingham Brick & Tile Co.
CADILLAC—Wilcox Bros.
CASS CITY—Hall, Charles
CLIO—Oliff, Thos.
DAVISON—Uptegraff Bros. & Co. (Also Tile)
DEERFIELD—Atkin, Wm. T., Jr.
DETROIT—Clippert, Geo. H. & Bro. Brick Co., 1960 Michigan av
Daniel, Jacob & Bro. Brick Co. 1955 Michigan av
Lonyo Brick Co., N W c Michigan av
Lonyo Bros., N E c Michigan av & Lonyo rd
McDonald, J. C. & Son, McGraw bldg
Michigan Pressed Brick Co., Lawton av & M C R R

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Sass Bros. & Stuve, Central & Michigan avs
Schneider Brick Co., 605 Dix av
Walker & Frank Brick Co., Hammond bldg
Wolf, F. H. Brick Co., 1467 Central av
Wolf & Dei Brick Co., 1499 Central av
FLINT—Flint Sandstone Brick Co.
GRAND BLANC—Grand Blanc Brick & Tile Co.
GRAND RAPIDS — Battjes Fuel & Building Material Co.
Grand Rapids Consol. Brick & Tiling Co.
HOLTON—Holton Brick Co.
IONIA—Vander Heyden, Fred H.
JACKSON—Michigan Southern Brick & Tile Co.
LANSING—Clippert, Spaulding & Co.
MANISTEE—Manistee Brick Co.
MAYBEE—Linenfelser Brick & Tile Co.
MIDLAND—Midland Brick & Tile Co.
MINDEN CITY—Seaman & Proctor
MOUNT CLEMENS—Mount Clemens Brick & Tile Co.
MUSKEGON—Holton Brick Co.
NEW BALTIMORE—Streit, Andrew
OWOSSO—Frieseke, J. & H.
BEDFORD—Beardsley Bros.
SAGINAW—Saginaw Paving Brick Co.
Saginaw Sandstone Brick Co.
ST. CLAIR—Belknap & Phillips
ST. JOHNS—Pulfiey, C. F.
ST. LOUIS—Smith, W. H. H. & Son
SARANAC—Brown, Albert
SEBEWAING—Reinhold, Ernst
SIBLEY—Church Brick Co.
Sibley Brick Co.
SPARTA—Sparta Brick & Tiling Co.
TRAVERSE CITY—Traverse City Brick Co.
Markham, J. W.
Queen City Brick Co.
VULCAN—Vulcan Brick Works
ZEELAND—Zeeland Brick Co.

## MINNESOTA.

AKELY—Moore Bros.
ALBERT LEA—Albert Lea Brick & Tile Co.
AUSTIN—Minnesota Farmers' Brick & Tile Co.
BLAKELEY—Kahn, Sam
BRICKTON—Farnham Brick Co.
Morton, R. P.
Princeton Brick Co.
Woodcock & Sellhorn
CHASKA—Chaska Brick & Tile Co.
Klein, C. H. Brick Co.
CROOKSTON—Crookston Brick & Tile Co.
FERTILE—Fertile Brick & Tile Co.
HUTCHINSON—Madsen, M. C.
JACKSON—Jackson Tile & Brick Co.
LITTLE FALLS—Duclos, O.
MANKATO—Fowler & Pay
Panenberg, F. G. & Co.
MINNEAPOLIS—Anderson, M. Brick Co.
Johnson, Frank A., 5008 N Lyndale av
Minneapolis Brick & Tile Co.
Minneapolis Paving & Cement Brick Co.
Wisconsin Red Pressed Brick Co.
MORTON—Morton Brick & Tile Co.
NEW ULM—Aufderheide, Fred.
PERHAM—Haut, Gustave
RED WING—Red Wing Brick Co.
ST. PAUL—Chaska Brick & Tile Co.
St. Paul Brick Co.
Twin City Brick Co.
SHAKOPEE—Schroeder Brick & Lime Mfg. Co.
SPRINGFIELD—Ochs, A. G.
WARREN—Lundgren, August
WINONA—Biesanz, Philip
Voelker & Groff
WRENSHALL—Enterprise Brick Co.
Habbegger, Fred.
Wrenshall Brick Co.

## MISSISSIPPI.

BALDWIN—Baldwin Brick & Tile Co.
BOONEVILLE—Booneville Brick & Tile Co.
BROOKHAVEN—Brookhaven Pressed Brick & Mfg. Co.
COLUMBUS—Columbus Brick Co.
GREENWOOD—Success Brick & Tile Co.
HATTIESBURG—Crymes, T. P.
Riverside Brick & Mfg. Co.
HOLLY SPRINGS—Holly Springs Stoneware & Fire Brick Co.
JACKSON—Bullard Brick Co.
Taylor, W. B.
MOUNT OLIVE—Mount Olive Brick Co.
NATCHEZ—Concord Brick Co.
Natchez Brick & Mfg. Co.
OSYKA—Neff & Owen
Wilson, J. C.
OXFORD—Oxford Brick & Tile Co.
PORT GIBSON—Port Gibson Brick Mfg. Co.
VICKSBURG—Beck, Jno. W.
WEST POINT—West Point Brick & Mfg. Co.
YAZOO CITY—Montgomery Land Co.

## MISSOURI.

ALMA—Neimann, G.
BLOOMFIELD—Henzie, Albert
BOONVILLE—Boonville Brick Co.
BRAYMER—McCubbin, Wm.
BRUNSWICK—Brunswick Brick & Tile Mfg. Co.
CAPE GIRARDEAU—Daues, A. W. & Bro.
CONCORDIA—Bosselman, Hy.
CREIGHTON—Creighton Tile & Coal Co.
DE SOTO—Herman, Otto
FULTON—Fulton Fire Brick Co.
GLASGOW—Burdie Bros.
HANNIBAL—Elgin & Richmond
HERMANN—Vallet, Fritz
HIGGINSVILLE—Canterbury, Frank
INDEPENDENCE — Independence Shale Brick Co.
JACKSON—Kasten & Schmuke Pressed Brick Co.
JEFFERSON CITY—Pohl Bros.
KANSAS CITY—Dickey, W. S.
Flanagan Bros. Mfg. Co., Lydia c 2d
Hydraulic Press Brick Co.
Kansas City Brick & Stone Co.
Kansas City Brick & Tile Co.
Kansas City Paving Brick & Tile Co., K & P bldg
Lyle Rock Co., 2d & Highland av
Pittsburg Paving Brick Co.
KNOBNOSTOR—Boyd, G. M. & Co.
LEXINGTON — Lexington Triumph Pressed Brick Co.
MILAN—Grear, H. & Sons
MOBERLY—Moberly Paving Brick Co.
NEVADA—Daly, J. A.
PERRYVILLE—Popp, John C.
ST. CHARLES—St. Charles Brick Co.
ST. JOSEPH—Phoenix Brick & Cons. Co., King Hill av
St. Joseph Pressed Brick Co., 19th & Garfield av
ST. LOUIS—Brockschmitt, Edw., 6533 Manchester av
Calhoun Brick & Clay Co., 202 N 9th
Central Shale Brick Co., 202 N 9th
College Hill Pressed Brick Works, 1400 E College av
Columbia Clay Works, 421 Olive
Consumers' Brick & Quarry Co., 200 Fannie
Continental Brick Co., 915 Olive av
Enterprise Brick Works Co., 915 Olive
Excelsior Press Brick Co., 1010 Chestnut
Hydraulic Press Brick Co., 705 Olive
Ittner, Anthony Brick Co., Odd Fellows
McEwing & Thomas, 202 N 9th bldg
Maes, Jacob, Hoffmeister av, E of Mo. Pac. Tracks
Missouri Press Brick & Improvement Co., Marine av c Osage
National Pressed Brick Co., 407 N 8th
Progress Press Brick & Machine Co., 3207 S King's Highway
St. Louis Clay Products Co., 506 Olive
De Giverville av
St. Louis Press Brick Co., Cass av, & Collins
Schweer, H. H. Brick Co., 4300 S B'way
Superior Press Brick Co., 3190 S King's Highway
WINFIELD—Magruder, B. E. (Tile)

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BOZEMAN—Brown, J. N.
MISSOULA—Missoula Brick & Tile Co.

## NEBRASKA.

AURORA—Klose, C. & Co.
BEEMER—Raasch, J. C. & Son
DAVID CITY—Bushell, W. H.
DODGE—Brodhun & Mumeday
GRAND ISLAND—Schmidt, Louis
HASTINGS—Polenske, Shellack & Co.
Western Brick & Supply Co.
HOOPER—Builders' Brick Mfg. Co.
KEARNEY—Hibberd Brick Co.
LINCOLN—Yankee Hill Brick Mfg. Co.
LOUP CITY—Ohlsen Bros.
MADISON—Kaul, Carl F.
NELIGH—Brenton, T. H.
OMAHA—Corneer Brick Co.
Gould, F. P. & Son
Hydraulic Press Brick Co.
Omaha Brick Co.
Omaha Brick, Paint & Tile Co.
Smith Brick Co.
SCRIBNER—Scribner Brick Mfg. Co.
SOUTH OMAHA—Krittenbrink, J. H.
STANTON—Strahle, Carl.
TABLE ROCK—Table Rock Clay Co.
WAYNE—Lewis, Jno., Jr.
Sherbahn, J. F.
YORK—York Brick & Tile Co.

## NEVADA.

RENO—Reno Press Brick Co.

## NEW HAMPSHIRE.

CONCORD—Holt, Samuel
DOVER—Gage, Elbridge G.
EPPING—Goodrich, W. S.
Manchester Real Estate & Mfg. Co.
Proulx, Joseph
GONIC—Blakely, Geo. C.
Boston Brick Co.
Lanoix, Alphonse
LANCASTER—Lancaster Brick Co.
LEBANON—Densmore Brick Co.
MANCHESTER—Manchester Real Estate & Mfg. Co.

## NEW JERSEY.

ASBURY PARK—Drummond Bros.
BELLE PLAINE—Greenlee, Richard
BERKLEY HEIGHTS—Garrabrant's Brick Co.
BORDENTOWN—Bordentown Brick Co.
Graham, A. S. & Co.
BRIDGETON—Bridgeton Brick Co.
BROWN'S MILLS—Pitman, Chas. H.
CAMDEN—Hatch, Hugh
Reeve, Augustus
CLIFFWOOD—Cliffwood Brick Co.
Lenox Brick Co.
Oschwald Brick Works
CROSSWICKS—Braislin, Ida W.
DUNELLEN—Rajotte, Albert
EGG HARBOR CITY—Einsiedel, Julius
FARMINGDALE—Lippncott, Edwin
HACKENSACK—Gardner, M. B. & F. B.
Hackensack Brick Co.
Mehrhoff, Philip
Schults, Edw.
HARRISON—Harper, David
HIGHTSTOWN—Reed, B. H. & Bro.
HOMESTEAD—Homestead Brick Co.
KINKORA—Harper, David
LITTLE FALLS—Singac Brick Co.
LITTLE FERRY—Benjamin, S. E.
Mehrhof Brick Co.
Mehrhof, N. & Co.
Treviranus & Gardner
MAPLE SHADE—Reeve, Augustus
Sauselein, Theo.
MATAWAN—Close, Wm. A. Trading & Mfg. Co.
New Jersey Clay Brick Co.
MAURER — MAURER, HENRY & SON. (See adv. Inside Front Cover)
MAYS LANDING—Atlantic Brick Mfg. Co.
MILLTOWN—Phila. & Boston Face Brick Co.
MILLVILLE—Bircham, Albert E.
MORRISTOWN—Hanover Brick Co.
MOUNT HOLLY—Dubell, Firman
MOUNTAIN VIEW—Enterprise Brick Co.
NEWARK—SAYRE & FISHER CO., ft of Centre. (See adv. Inside Front Cover)
Standard Brick Co., 502 Broad
NEWTON—Losee, F. E.
NORTHFIELD—Somers Brick Co.
PLAINFIELD—Hand, Ernest T.
RED BANK—Crescent Brick Co.
ROCKAWAY—Rockaway Brick Co.
ROSENHAYN—Rosenhayn Face Brick Co.
SAYREVILLE—Furman, Edward Co.
SAYRE & FISHER CO. (Hard Building). (See adv. Inside Front Cover)
SOUTH AMBOY—Furman, A. H.
SOUTH RIVER—Great Eastern Clay Co.
Pettit & Cook Co.
South River Brick Co.
Yates Bros.
TRENTON—Applegate, Joseph H.
Donahoe & Nolan
Trenton Fire Brick Mfg. Co.
WHIPPANY—Hanover Brick Co.
WILLIAMSTOWN—Williamstown Brick Co.
WINSLOW—Hydraulic Press Brick Co. (Office, Phila., Pa.)
YORKTOWN—Haines, David F.

## NEW MEXICO.

ALBUQUERQUE—Albuquerque Pressed Brick & Tile Co.

## NEW YORK.

ALBANY—Hunter, Alfred & Son, 54 Van Woert
Smith, Edw. J., 1st av
ARLINGTON—Flagler & Allen
Pennock, Meda H.
ATHENS—Rider, Wm. W., Jr.
ATTICA—Attica Brick & Tile Co.
AUBURN—Harvey, F. W.
BROCKWAY—Brockway Brick Co.
BUFFALO—Berricks, Chas. Sons Co., 1151 Main
Brush Bros., Builders' Exchange
Buffalo Clay Mfg. Co., Builders' Exchange
Ellicott Brick Co., 918 Ellicott sq.

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Lancaster Brick & Tile Co., Builders' Ex
Hall & Sons, 69 Tonawanda
Jewettsville Brick Co., Builders' Exchange
**Lyth, A. & Sons, 48 W Eagle**
Lyth Tile Co., Ellicott Square
Queen City Brick Co., Builders' Exchange
Schmidt, Geo. W., 699 Bailey av
CANANDAIGUA—Hollis, A. M. & Co. (Tile)
New York Press Brick Co.
CARTHAGE—Wrape & Peck
**CATSKILL—Catskill Vitrified Brick Co.** (See Golden, Percival & Son New York City)
Washburn, G. W. & Co.
COEYMANS—Sutton & Suderly Brick Co.
Ziegler & Ziegler
COHOES—Cary Brick Co.
Murray & Riberdy Co.
CORNING—Brick Terra Cotta & Tile Co.
CORNWALL ON THE HUDSON—Hedges Brick Co.
CRESCENT—Newton, A. C.
DUNKIRK—Hilton, Walter E.
DUTCHESS JUNCTION—Aldridge Brick Co.
Anchor Brick Co.
Brockway Bros. Co.
Budd, W. D. Co.
Hammond & Freeman
Nicholson Bros.
Ramsdell, Homer (Estate of)
EAST KINGSTON—Brigham Bros.
Hendricks Brick Co.
Lynch Bros. & Co.
Smith, T. H. & A. H.
Staples Brick Co.
Washburn, U. F. & J. T.
ELMIRA—Consolidated Brick Co.
FARMINGDALE—Queens County Brick Mfg. Co.
FAR ROCKAWAY—(See New York City, Borough of Queens)
FISHKILL LANDING—Belisle, Joseph
De Cesero, Castanza
Robillard & Shackett
FORT SALONGA—Brown Clay Works
GARDENVILLE—Bender, Henry
GLASCO—Empire Brick & Supply Co.
Lent, Robert
Maginnis, J. C.
Washburn Bros. Co.
GLEN HEAD—Post, Wm. & Jonathan
GRASSY POINT—Brophy Bros.
Lynch Bros.
Morrissey & Brophy
Morrissey & Co.
Riley, Margaret
Washburn, W. F. & Co.
Washburn & Fowler
GREEN BRIDGE—(See New York City, Borough of Richmond)
GRENPORT—Sage Brick Mfg. Co.
HAVERSTRAW—Allison, B. J. & Co.
Allison & Wood
Archer, Geo.
Bennett, Bessie
De Noyelles & Co.
Excelsior Brick Co.
Fowler, Everett
Fowler, D., Jr., & Co.
Garner Brick Works
Lynch Bros.
Lynch & O'Brien
McGuire, Terence
Malley, Mrs. Mary
Peck Brick Co.
Renn, E. N. & Co.
Shankey, Thos & Son
Snedeker Bros.
Tanney, Thomas
Tanney & Coyne
Wood & Allison
HOOSICK FALLS—Dolan, John
HORSEHEADS—Consolidated Brick Co.
HUDSON—Arkinson Bros.
Atlas Building Material Co.
HUNTINGTON—Levy, Wm.

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

JAMESTOWN—Jamestown Shale Paving Brick Co.
JOHNSTOWN—Kilmer, Robert M.
KINGSTON—Goldrich, Philip
Hutton Co.
Main, R. & Co.
Rose, A. & Co.
Schlede, Christian
Shultz, C. A. (Est. of)
Terry Bros. Co.
LANCASTER—McCutcheon, C. H.
LANSINGBURG—(See Troy)
LA SALLE—La Salle Brick Co.
MECHANICVILLE—Cary Brick Co.
Champlain Brick Co.
New England Brick Co.

## NEW YORK CITY.

### Boroughs of Manhattan & Bronx.

**NEW YORK—Catskill Vitrified Brick Co. (Sewer & Building), 17 Battery pl. Works: Catskill, N. Y.**
Chestnut Ridge White Brick Co. (Eight Colors), 121 W 42d
**Fiske & Company (Inc.), Flat Iron bldg**
**FLEMING & CO. (Dealers), 253 B'way.** (See adv. index, end of book)
Fredenburg & Lounsbury, 381 4th av
Hydraulic Press Brick Co., 381 4th av
**MAURER, HENRY & SON, 420 E 23d.** (See adv. Front Inside Cover)
New Jersey Co., 11 B'way
Person & Co. (Mfrs' Agents), 160 5th av
Plummer, Albert C., 220 B'way
Plummer, D. S., 112 W 42d
Powhatan Clay Mfg. Co., 1123 B'way
Richmond Brick Co., 44 Hubert
**SAYRE & FISHER CO., (Hard** Building), 261 B'way. (See adv. Front Inside Cover)
Underhill, W. A. Brick Co. ("Colbaugh" ... 103 Park av
Willard, C. T. Co., 110 E 23d

### Borough of Richmond.

GREEN RIDGE—Dunn & Dolan
Richmond Brick Co.

**(End of New York City)**

NIAGARA FALLS—Frontier Brick Works
OLEAN—Olean Pressed Brick Co.
Sterling Brick Co.
ROCHESTER—Rochester Brick & Tile Mfg. Co.
Rochester German Brick & Tile Co.
RONDOUT—(See Kingston)
ROME—Parry, W. W.
SOUTHOLD—Sanford, L. N.
STONY POINT—Reilly & Marks
SYRACUSE—Merrick, Chas. H.
Onondaga Vitrified Brick Co.
Pack, Geo. W. & Son
TROY—Cary Brick Co.
Glass, Rob't & Co.
Troy Brick Co., Lansingburg
UTICA—Utica Brick Works
Utica Brick & Tile Co.
Weaver's, Geo. F. Sons Co.
VERPLANCK—Bonner Brick Co.
Mackey, W. H.
Mackey, M. E. & Co.
O'Brien, Philip
WATERTOWN—Watertown Pressed Brick Co.

## NORTH CAROLINA.

ASHEVILLE—Hildebrand, David
Hildebrand, David
Shehan, Geo. C.
CHARLOTTE—Carson Brick Co.
Charlotte Brick Co.
DURHAM—Cheek & Belvin
Fitzgerald, C. T. & S. B.
ELIZABETH CITY—Elizabeth City Brick Co.
Thompson, F. G.
ELKIN—Elkin Brick & Light Co.
FAYETTEVILLE—Poe, E. A. Brick Co.
GIBSON—Green Pond Granite Brick Co.
GOLDSBORO—Grant, H. L. & Son
GREENSBORO—Jennings, W. G. & Son
Watson, W. A., Sr.
HAW RIVER—Trolinger & Montgomery
HIGH POINT—High Point Brick Co.
KINSTON—Carolina Brick Co.
WELDON—Chockoyotte Brick Co.
Weldon Brick & Land Improvement Co.
WILMINGTON—Moores, Roger Sons & Co.
Wilmington Granite Brick Co.
WILSON—Lucas, Silas
WINSTON SALEM—Hedgecock, R. W.

## NORTH DAKOTA.

DICKINSON—Dickinson Fire & Press Brick Co.
DRAYTON—Drayton Brick Co.
GRAND FORKS—Red River Valley Brick Corporation
HILLSBORO—Hillsboro Brick & Tile Co.

## OHIO.

AKRON—Akron Brick & Tile Co. (Shale)
Cooper Bros.
Crouse, G. W. Jr.
McCausland Bros.
Windsor Brick Co. (& Tile)
ALGER—Alger Clay Mfg. Co.
ALLIANCE—Auld, John & Sons Co.
ALVORDTON—Alvordton Brick & Tile Co.
AMHERST—Petty, Henry
ANTWERP—Harmann, N. & Son (Tile)
ARCANUM—Rogers, Martin (Drain Tile)
ARCHBOLD—Archbold Brick & Tile Co.
ASHLEY—Dennis, M. (Tile)
ATHENS—Athens Brick Co.
ATTICA—Keller, G. M. (Tile)
Milliron Bros. (Tile)
AVERY—Park & Tucker
BALTIC—Baltic Brick & Tile Co.
BASCOM—Miller, J. A. & Co. (Tile)
BATAVIA—Clermont Brick Co.
BATSON—Mumma Bros. (Tile)
BEAVER—Beaver Tile & Brick Co.
Theabold Bros.
BEAVERDAM—Donner, Chris. (Tile)
BELLE CENTER—Royer, Chas.
Stewart, J. I. (Drain Tile)
BERLIN HEIGHTS—Berlin Heights Brick & Tile Co.
BETTSVILLE—Flanders, Geo. (Tile)
BLACK FORK—Black Fork Co.
BLACKLICK—Columbus Clay Mfg. Co.
BLANCHESTER—Blanchester Brick & Tile Co.
BLOOMDALE—Bloomdale Tile & Brick Co.
BLOOMVILLE—Bloomville Brick & Tile Co.
BLUFFTON—Diller Tile Co.
BRECON—Heidecker Brick Co.
BRICE—Brice Clay Co.
BRYAN—Bryan Brick Co.
Neff, Benj. F. & Son
BUCYRUS—Breisinger, Chas. & Son
Witter, Jno. (Tile)
BURKETTSVILLE—Jones, Aaron (Tile)
BUTLER—Wheatcraft, U. & Son
CANAL DOVER—Rose & Kaser
CANAL WINCHESTER—Canal Winchester
CANTON—Big Four Clay Co. Brick & Tile Co.
Canton Pressed Brick Co.
Metropolitan Paving Brick Co. (Shale)
CAREY—Stief Bros.
CARDINGTON—Pfeifer, Wm.
CARROLLTON—Deckman-Duty Brick Co.
CARROTHERS—Clements, J. F. (Tile)
CECIL—Bissell & Erter (Tile)
CELINA—Springer, J. S. (Tile)
Thleman & Schulte
CENTERBURG—Landrum & Landrum (Tile)
CHATFIELD—Baumgartner & Co.
Zellner, Harvey
CHIPPEWA LAKE—Chippewa Shale Brick Co.
CINCINNATI—Anders, Geo. E., Knox & C. H. & D. Ry
Blair, J. M. Brick Co., Builders' & Traders' Exch
Cincinnati Brick Co.
Cincinnati Clay Products & Supply Co.
Gould, John F., 339 Durrell av
Herbert, J. H. & Son, Alabama, nr B. & O. S. W. Ry.
McCammon, L. H. Bros., Johnston bldg
Suer, Herman & Sons, McCormick rd, Hyde Park
Suer & Bro., Idlewild
Taylor, Chas. Sons Co., 710 Burns
Warburg, Bernard, McLean av nr York
Warburg, John T., McLean av n York
Western Pressed Brick Co., 3090 Western av
Westwood Brick Co., Union Trust bldg
Wuebker, Jas., 3247 Eastern av
CIRCLEVILLE—Lewis, S. M.
CLEVELAND—Barkwill Brick Co., East 75th & Kingsbury Run, S E
Barkwill & Bradley, The Arcade
Brooksille Brick Co., 3639 W 56th
Cleveland Brick & Clay Co., Rockefeller
Deckman-Duty Brick Co., Rose bldg
Farr Brick Co., 3732 B'way, S. E.
Gynn, Geo. H., Harvard av c Beyerle rd
Harrison, Wm. H., E 49th, opp Guy av
Hydraulic Press Brick Co., Schofield bldg
Knauff & Esterbrook, Aetna rd, S E
Ohio Clay Co., Schofield bldg
Standard Brick Co., 4393 Bradley rd., S W
Wilson, John, Independence rd., junc. Ohio
CLYDE—Clyde Brick & Tile Works Canal
Richards, C. R. (Tile)

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COAL GROVE—Petersburg Fire Brick & Tile Co.
COLUMBUS—Athens Brick Co.
Buckeye Brick & Block Co
Claycraft Brick Co
Columbus Brick & Terra Cotta Co.
Columbus & Hocking Clay & Brick Co
Conard, John A., Furnace and Ark
Ferris, Warren B. Brick Co
Ironclay Brick Co., 55 Ruggery
Mulby Bros
Myre Brick Yards
Schneider Brick Co
Shawnee Flash Brick Co
Sugar Grove Brick Co
COLUMBUS GROVE—Columbus Grove Tile & Brick Co.
CONDIT—Chadwick, W. W. (Tile)
CONNEAUT—United Brick Co.
CONTINENTAL—Konst & Moore (Tile)
COONEY—Adair, R. C.
CORWIN—Benecke, F. F. & Son (Tile)
COSHOCTON—Coshocton Brick Co.
COVINGTON—Wagner, J. G.
CRESTON—Wells, N. M. & Son
CUMBERLAND—Bay, Jno. C.
CUYAHOGA FALLS—Keller Brick Co.
DAYTON—Boren, John W.
Dayton Brick Co.
Hosket, Chas. F.
Parish, E. K.
Telgler Bros.
DEFIANCE—Defiance Tile Co.
Diehl Brick & Tile Co.
DELAWARE—Delaware Clay Mfg. Co.
DELHI—Mitchell Brick Co.
DELPHOS—Minzing, Fred
DERBY—Hall, J. L. & Son (Tile)
DESHLER—Deshler Brick & Tile Mfg. Co.
Rogers Bros.
DILLONVALE—Dillonvale Brick & Tile Co.
DUPONT—Etter Bros.
DUNBRIDGE—Keil, Frank A.
DUVALL—Teegarden, J. W. & Co.
EAST LIVERPOOL—Cain, J. C. & Co.
Champion Brick Works
East End Brick Works
East Liverpool Brick Mfg. Co.
Gamble & Suries
ELFORT—Portsmouth Refractories Co.
ELERY—Honeck Bros.
ELMORE—Gleckler, Geo.
Moser, E. H.
ELYRIA—Wallhead, Wm.
EMPIRE—(See Brick, Fire)
EVANSPORT—Key, A. C.
FINDLAY—Hancock Brick & Tile Co.
FOREST—Ash, Peter
Forest City Clay Works
FORT JENNINGS—Mericle, Aaron (Tile)
FORT RECOVERY—Fort Recovery Tile Co.
FOSTORIA—Bushman Bros. (Tile)
FRANCIS—Germann, C. F. (Tile)
FRANK—Groff, Jos.
FRANKLIN FURNACE—Oakes, J. & Sons Co. (Tile)
FRAZEYSBURG—Frazeysburg Brick & Tile Co.
FREDERICKSBURG—Miller, W. M.
FREMONT—Potter, D. M.
Riverside Fuel & Supply Co.
FULTON—Cords & Powell
FULTONHAM—Fultonham Brick Co.
GALENA—Galena Clay Products Co.
GALION—Motsch, Joseph
GALLIPOLIS—McCormick, Geo. H. & Son
GENEVA—Geneva Brick & Tile Co. (Tile)
GERMANTOWN—Crauder, Henry (Tile)
GILBOA—Fisher & Goble (Tile)
GLANDORF—Nartker & Schroeder
GLENWOOD—Noble Brick Co.
GLOUSTER—Wassall Brick Co.
GRAND RAPIDS—Carr, D. R.
GREEN SPRING—Young Bros.
GREENFORD—Greenford Fire Clay Co.
GREENVILLE — Richeson, Nelson & Moore
GROVE CITY—Maxson, Ira (Drain Tile)
GROVE HILL—Kohn, D. P.
GROVEPORT—Claycraft Brick Co.
GUTMAN—Wehinger Bros. (Tile)
HAMDEN—Puritan Brick Co. (See Detroit, Mich.)
HAMILTON—Hamilton Brick Co.
HANOVER—Hanover Red Pressed Brick Co.
HAVILAND—Goble, T. L. (Tile)
HEDGES—Baughman, J. C.
HICKSVILLE—Armstrong & Son
HILL GROVE—Daubenmire, C. E.
HOLGATE—Richholt Bros.
IRONTON—Ashland Fire Brick Co.
Wileman & Helbing
JAMESTOWN—Dodd & Carpenter (Tile)
JEFFERSON—Loftus, Martin
JEFFERSONVILLE—Allen, George (Tile)
JEWELL—Flory Bros. (Tile)
KALIDA—Rambo & Rimer Bros.
KENTON—Schmidt, Wiphart
KINGSWAY—Kingsway Drain Tile Co.
KOSSUTH—Beerline, Jno. W. & Son (Tile)
LACARNE—Ballin, August
Ballin, R. C.
LAKE VIEW—Bayer & Moore (Tile)
LANCASTER—Cowden Brick & Tile Co.
Cowden, George
Lancaster Brick & Tile Co.
LARUE—Larue Tile Co.
LATTY—Bailey, R. H. (Tile)
LAURA—Wagner, J. G.
LAURELVILLE—McClelland Tile Mfg. Co.
LEBANON—Lebanon Pressed Brick Co.
LEIPSIC—Terry, R. T.
LOGAN—Logan Clay Product Co.
LOUISVILLE—Keim Brick & Tile Co.
Louisville Brick & Tile Co.
Stoneware Tile Co. (Hollow Building Brick)
McARTHUR—McArthur Brick Co.
McCLURE—Kaylor, John
McCOMB—Pendleton, Grant (Tile)
McGILL—Mumma Bros. (Tile)
MARIETTA—Cisler, Thomas & Son
MARION—Dix-Mason Brick Co.
MASSILLON—Massillon Brick Co.
Massillon Stone & Fire Brick Co.
MENDON—Fox, L. E. (Tile)
MIDDLEPORT—Middleport Brick Co.
MIDDLETOWN—Smith, Wm. & Co.
MILAN—Lavey, James (Tile)
MILLERSBURG—Millersburg Brick & Tile Co.
MILLERSPORT—Brison Bros.
MINERAL CITY—Federal Clay Product Co. (Sewer, Circle, Foundations, etc.)
Holden, C. E.
Markley, Geo. J.
MINSTER—Steineman, Mrs. Anna (Tile)
MOGADORE—Colonial Pressed Brick Co.
MONROEVILLE—Mason, F. H. & Son (Tile)
MORRAL—Postle, C. H.
MOUNT GILEAD—McGowan & Co. (Drain Tile)
MOUNT HEALTHY—Roettele Bros.
MOUNT STERLING—Michel, George (Tile)
NAPOLEAN—Mehring Brick & Tile Co.
NELSONVILLE—Nelsonville Brick Co. (Building)
NEWARK—Vogelmeier Bros.
NEW BREMEN—New Bremen Brick Co.
NEW COMERSTOWN—Novelty Brick & Coal
NEW LONDON—Richards, Samuel (Tile) Co.
NEW WASHINGTON — Baumgartner & Co
Seitter & Brown (Tile) (Brick & Tile)
NORTH INDUSTRY—Starkey, John
NORTH ROBINSON—McDougal, Victor
NORWALK—Norwalk Brick & Stone Co.
OAK HARBOR—Gleckler, Fred. (Tile)
OAK HILL—Aetna Fire Brick Co.
Davis Fire Brick Co.
Diamond Brick Co.
Jones Fire Brick & Cement Co.
Oak Hill Fire Brick & Coal Co.
Ohio Fire Brick Co.
OTTAWA—Ohio Brick & Tile Works
PAINESVILLE—Thompson, Chas.
PAULDING—Klingler, C. P. (Tile)
PAYNE—Garmroth, Geo.
Rahrig, Aug.
PERRYSBURG—Perrysburg Tile & Brick Co.
PICKERINGTON—Fenstermaker, W. E. (Tile)
PORTSMOUTH—Kaps Bros.
Peebles Paving Brick Co. (Sewer, Sidewalk, etc.)
Portsmouth Paving Brick Co.
PRAIRIE DEPOT—Hedge, F. T. & Son
RICHWOOD—Richwood Clay Mfg. Co.
RIVER STYX—Ream, A. (Tile)
ROCKFORD—King & Co.
SANDUSKY—Hinde Brick & Tile Co.
SHERWOOD—Schliesser, David
SHILOH—Prame, F. J.
SIDNEY—Bennett & Son
SOUTH ZANESVILLE—South Zanesville Sewer Pipe & Brick Co. ("Bolen's" Brown Granite & "Halwood")
SPENCERVILLE—Shaeffer, G. W. (Tile)
SPRINGFIELD—Grube, Adam & Son
Grube Bros.
STEUBENVILLE—Nicholson Brick Co.
STRYKER—Rumsey, J. D.
SUGARCREEK—Shepfer & Moomaw Bros.
SUMMIT STATION—Columbus Clay Mfg. Co.
SYCAMORE—Althouse Bros. (Tile)
TIFFIN—Hall, John A. & Co.
Heilman Bros.
TOLEDO—Auburndale Brick Wks, Nicholas bldg
Burkhart, Lawrence, Western av nr Swan Creek
Collingwood Brick Co., Spitzer bldg
Fox Clay Products Co. (Inc.), c Lagrange
Kohler Brick Co., St. Clair bldg Detroit av
Logan Brick Mfg. Co.
Northern Brick Co.
Ohio Brick Co.
Spear-Evans Co., Georgia av & L. S. & M. S. Ry.
Toledo Hollow Brick & Tile Co.
Tracy, F. E., 241 Ontario
TORONTO—Toronto Fire Clay Co.
TRIMBLE—Trimble Brick Mfg. Co. (Building, Sewer and Sidewalk)
TROY—Troy Tile & Brick Co.
UHRICHSVILLE—Riffle, J. J.
UNION FURNACE—Columbus Brick & Terra Cotta Co.
UPPER SANDUSKY—Blaser, E. G. (Tile)
Zahn Bros.
URBANA—Schaffer, George & Son
Thackery, J. C.
VERSAILLES—Murphy, John (Tile)
WADSWORTH—Wadsworth Brick & Tile Co.
WARREN—Warren Brick & Tile Co.
WAVERLY—Bauersach, G. A.
WELLSVILLE—Champion Brick Co.
Vulcan Clay & Brick Co.
WEST UNITY—Denman, W. M. (Tile)
WICKLIFFE—Kline, John Brick Co. (Building & Sewer, Capacity 5,000,000)
WILLIAMSBURG—Williamsburg Brick Co.
WOOSTER—Wooster Shale Brick Works
YOUNGSTOWN — Bessemer Limestone Co. (Wire Cut Shale; Capacity, 225,000 per Day)
Portage Silica Co.
ZANESVILLE—Oakland Pressed Brick Co.
Townsend, T. B. Brick & Contracting Co.

## OKLAHOMA.

ADA—Cooper & Bowes
ALVA—Alva Brick Co.
ARDMORE—Ardmore Brick & Tile Co.
BARTLESVILLE—Bartlesville Vitrified Brick
CHICKASHA—Baker, Frank E. Co.
Western Shale Brick Co.
CLARMORE—Howard Brick Co.
HENNESSEY—Lane, A. E.
McALESTER—Choctaw Pressed Brick Co.
McAlester Brick Co.
MUSKOGEE—Muskogee Vitrified Brick Co.
OKLAHOMA CITY—American Brick & Tile Co.
Cleveland Vitrified Brick Co.
Oklahoma Brick Co.
SAPULPA—Sapulpa Pressed Brick Co.
SHAWNEE—Danal, E.

## OREGON.

BEAVERTON—Beaverton Clay Mfg. Co.
CORVALLIS—Corbett, W. C.
NEWBURG—Newburg Brick & Tile Co.
PORTLAND—Kern, L. E., E 34th & & Tillamook
Portland Brick & Tile Co., Lumbermans' bldg
SALEM—Burton, A. A.

## PENNSYLVANIA.

ALLENTOWN—Downing, Joseph
Hausman, Wm. A.
Kichline Brick Co.
Mattern, E. G.
Swoyer Bros. Brick Co.
ALTOONA—Altoona Brick & Tile Co.
ASPERS—Asper, F. A.
AUBURN—Auburn Shale Brick Co.
BEAVER FALLS—Douglass-Whisler Brick Co.
BLOOMSBURG—Bloomsburg Brick Co.
BOSTON—Harper, C. M. C.
BRADDOCK—Keller & Milliken
BRADFORD—Alumina Shale Brick Co.
Bradford Pressed Brick Co.
BRIDGEVILLE—Mayer, C. P. Brick Co.
BROOKVILLE—Humphrey Brick & Tile Co.
BUTLER—Butler Brick & Tile Co.
CALIFORNIA—California Clay Mfg. Co.
CARLISLE—Carlisle Brick Co.
CARNEGIE—Fort Pitt Stone & Brick Co.
Rossyln Brick Co. (Building, Foundation & Sewer)
CHAMBERSBURG—Spahr, Jas. B.
CHESTER—Law, Martha
CHICORA—Chicora Brick Co.
CLEARFIELD—Clearfield Brick Mfg. Co.
Clearfield Clay Working Co.
COLUMBIA—Gohn, Daniel F.
CORRY—Corry Brick & Tile Co.
DELPHI—Miller, Jno.
DUBOIS—Dubois Clay Mfg. Co.
Dubois & Butler Brick Co.
DUNBAR—Foltz, D. C.
Pope Stone & Brick Co. (See Pittsburg, Pa.)
EASTON—Messer, John (Estate of)
Zehnder, Daniel
EAST STROUDSBURG—Zacharias, Jos. H.
EMAUS—Binder Bros.
ERIE—Dudenhoeffer, Joseph & Co.
Dunn Brick Works
Genck Bros.
Paradine, T. J. & Son
FALL CREEK—Dubois & Butler Brick Co.
FALLSTON—Fallston Fire Clay Co.
Pennsylvania Clay Co.
Standard Fire Clay Co.
Welch, Jas. H.

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FORD CITY—Ford City Brick Co.
GREENSBURG—Keystone Clay Products Co.
United Brick Co.
HANOVER—Snyder, Edw. H.
HARRISBURG—Bigler, S. L. (Est. of)
Manchester Shale Brick Co.
HOLLIDAYSBURG—Portage Brick Co.
HOMESTEAD—Homestead Brick Co.
HOWARD—Howard Brick Co.
HUNTINGDON—Barrick, John
JOHNSTOWN—Campbell, Bruce H. Brick Co.
Johnstown Pressed Brick Co.
KANE—Kane Brick Co.
KITTANNING—Daugherty Bros. Brick Co.
Kittanning Brick & Fire Clay Co.
Kittanning Clay Mfg. Co.
KUNKLETOWN—Chestnut Ridge White Brick Co. (Eight Colors)
LANCASTER—Bomberger, Henry
Pontz, Adam
Pontz, Jacob
Wise, C. & Bro.
LANSDALE—Scholl, S. L. & Sons
LANSDOWNE—Sullivan, Jno.
LATROBE—Latrobe Brick Co.
LEBANON—Dressel, Jno.
Peerless Brick Co.
LEHIGHTON—Graver, H. A.
LEWIS RUN—Alumina Shale Brick Co.
Bradford Pressed Brick Co. (See Bradford, Pa.)
McKEESPORT—Layton Fire Clay Co.
McKeesport Brick Co.
Standard Brick Co.
Tempest Brick Co.
Youghiogheny Brick & Supply Co.
MAHONING—Corbett, J. H.
MEYERSDALE—Duncombe, Geo. H.
MILLERSBURG—Heatherman, Jas. F.
MILTON—Fries, W. E.
MONESSEN—Monessen Brick, Tile & Terra Cotta Works
MONONGAHELA—Monongahela Clay Mfg. Co.
MORTON—Ackerman, Henry I.
MOUNT HOLLY SPRINGS—Cumberland Clay Manufacturing Co.
MOUNT UNION—Mount Union Silica Brick Co.
NEW BETHLEHEM—Canton Tile Hollow Brick Co.
NEW BRIGHTON—Brighton Fire Brick Co.
Ingram & Co.
NEW CASTLE—Croton Limestone & Brick Co.
Neshannock Brick Co.
New Castle Portland Cement Co.
NEW OXFORD—Allwine Bros.
Carbaugh, Wm. H.
Staub Bros.
NEWPORT—Flurie, E. E.
NEWTOWN—Worstall Bros. & Co.
NORRISTOWN—Norristown Brick Co.
OSCEOLA MILLS—Osceola Silica & Fire Brick Co.
OSGOOD—Mornewick Co.
PENNSBURG—Reed & Landis
PHILADELPHIA—Aldan Brick Co., 148 N 2d
American Brick Mfg. Co., Land Title bldg
Atlantic Brick Mfg. Co., 1218 Chestnut
Byrne, Peter (Est. of), 20th & Cambria
Carroll, H. C. & Sons, 67th & Gibson
Clay Product Supply Co., 1332 Walnut
Conway, William S., 58th c Walnut
Dobbs, Samuel B., Bailey bldg
Earley, John H., Nicetown lane, bel Front
Equitable Brick Mfg. Co., S 60th c Pine
Esseg & Myers, N 2d n Butler
Frankford Brick Works, Ditman & Bridge
Goodwin, John A., 27th c Westmoreland
Hamburg Vitrified Brick Co., Land Title bldg
Hanarty, Jno. & Sons, 58th c Cedar
Hatten, Owen J., Fisher's la, n P. R. R.
Huhn, Samuel (Est.), S 33d cor Dickinson
Hydraulic Press Brick Co., Real Estate Trust bldg
Jarden Brick Co., Land Title bldg
Lehigh Brick Co., 28th & Cambria
Leuton Brick Co., 25th & Passy'k av
McAvoy, Thomas B. Sons, Kensington av & Nicetown la
McAvoy Vitrified Brick Co., 1345 Arch
McAvoy & Morris, S 31st c Dickinson
Mack Mfg. Co. (Building & Foundation), Land Title bldg
Murtha, D. C., N 16th c Butler
North Phila. Brick Works, 3d c Luzerne
Phila. Brick Co., 25th c Passyunk av
Rose, T. J. Brick Mfg. Co., Erie av c G
SAYRE & FISHER CO. (of New York), Heed bldg. (See adv. Front Inside Cover)
Seitter's F. Sons, Nicetown la nr G
Siner, H. M. & C. B., Nicetown la & K
Tansey Brick Co., 2d st pk & Godfrey av
Webster & Keyser, 30th cor Tasker
Young, Chas. A., 1928 Pt. Breeze
PITTSBURG — Allegheny Brick Co., Keenan bldg; Works: Sharpesburg, Pa.
Beckett, J. W. N., Pacific av & Colombo
Blackfox Brick Co., 111 Market
Blair Bros., Stanton av & Blair
Booth & Flinn (Ltd.), 1942 Forbes av
Carbon Brick Co., Oliver bldg
Central Brick Co., Diamond Bank bldg
Darlington Brick & Mining Co., 6366 Frankstown av
Iron City Brick & Stone Co., Stanton & McCandless avs
Kittanning Brick & Fire Clay Co., Empire bldg
Lambert, R. R. Co., Taggart & Charlotte
Mack Mfg. Co., Arrott bldg
McFeely Brick Co., Diamond Bank bldg
Marshall Brick Co., Alpine & Iowa
Martin Brick Co., Empire bldg
Mayer, C. P. Brick Co., Park bldg
Miller Brick & Stone Co., Woods Run av
Ohio Valley Brick Co., 217 9th nr Shelby
Pennsylvania Clay Co., 421 Wood
Pittsburg-Buffalo Co., Frick bldg
Pittsburg-Callery Brick Co., Wabash bldg
Pittsburg Clay Product Co., Keenan bldg
Pittsburg & Malvern Clay Co., Farmers' Bank bldg
Pope Stone & Brick Co.; Works: Dunbar, Pa.
Sankey Bros., 2112 Carson E
Smith Bros. Brick Co., Park bldg
Squirrel Hill Brick Co., Bristol n Bigelow
Vanport Brick Co., Farmers' Bank bldg
Ward, J. H. & Sons Co., Batavia & Oakwood
West Virginia Fire Clay Mfg. Co.
Westmoreland Brick Co., 2d Nat'l B'k bldg
PITTSTON—American Brick & Clay Mfg. Co.
POTTSTOWN—Davidheiser, F. B.
Garber, Joseph S.
Roth, Adam E.
Spang, Joseph
PUNXSUTAWNEY—Nordstrom, Mrs. M. J.
QUAKERTOWN—Heckenroth, John
RALSTON—Ralston Brick Co.
READING—Kline, S.
Montello Brick Works
Parker, W. H.
Reading Shale Brick Co.
RENOVO—Renovo Fire Brick & Clay Works
REYNOLDSVILLE—Evans, Thomas E.
Reynoldsville Brick & Tile Co.
RIDGWAY—Ridgway Brick Co.
ROCHESTER—Miller Brick Co.
ROYERSFORD—Keeley, A. T.
SCRANTON—Interstate Conduit & Brick Co.
Laurie, James
SHAMOKIN—Union Brick Co.
SHARPSBURG—Allegheny Brick Co. (See Pittsburg, Pa.)
SOUTH BETHLEHEM—Bingen Brick Co. (Ltd.)
Groman Bros.
SPRING CITY—Spring City Brick Works
STEELTON—Steelton & Harrisburg Brick Co.
TELFORD—Price, Chas. H.
UNIONTOWN—Snider, Edw. Co.
Uniontown Brick Co.
United Fire Brick Co.
Williams, J. V. & Co.
VANPORT—Gloninger & Co.
Vanport Brick Co.
WARREN—Highouse, E. & Son
WASHINGTON—Donley Brick Co.
Washington Brick Co.
WAYNESBORO—Miller, W. H.
WAYNESBURG—Ross Bros.
Waynesburg Brick & Stone Co.
WEST CHESTER—Guss Brick Yard
WEST POINT—Vaughan, Edward
WILKES-BARRE—Dickover, Geo. T. & Son
WILKINSBURG—Enterprise Brick & Stone Co.
WILLIAMSPORT—Guise Brick & Stone Co.
WILMERDING—Vant Ormer Brick Co.
WINDBER—Kelley, Wm. P. Brick Co.
YORK—Grothe, William H.
Kissinger's, Benjamin Sons
Miller, Chas. E.
Spring Garden Brick Co.
York Shale Press Brick Co.

## RHODE ISLAND.

PROVIDENCE—New England Steam Brick Co.

## SOUTH CAROLINA.

CAMDEN—Camden Pressed Brick Co.
DARLINGTON—Darlington Brick Co.
GREENWOOD—Mayes, W. H.
NORTH AUGUSTA—Hankinson Brick Co.
SPARTANBURG—Hanna, G. H.
SUMMERVILLE—Summerville Brick Works
SUMTER—Sumter Brick Works

## SOUTH DAKOTA.

COLUMBIA—Granite Brick Co.
LEAD—Phillips & Bartlett
SIOUX FALLS—Sioux Falls Pressed Brick Co.

## TENNESSEE.

CHATTANOOGA — Chattanooga Press Brick Works
Chattanooga River Brick Co.
Genter Brick Co.
Howard Park Brick Co.
Southern Clay Mfg. Co. (Paving Brick)
Wells, J. W. & Bro.
CLARKSVILLE—Settle, W. A.
COLUMBIA—Simpson, Thos.
DYERSBURG—Nichols, J. M.
JACKSON—Jackson Brick Co.
Long, J. B.
Southern Tile & Brick Works
KNOXVILLE—Knoxville Brick Co.
Scott, A. A. Brick Co.
Scott, J. F. & Son
So. Knoxville Brick Co.
McKENZIE—Costen & Moore
MARTIN—Walters, Jno. G.
MEMPHIS—Lyon, C. B. & Son
Tenn. Brick Co.
NASHVILLE—Bush, W. G. & Co.
Fulcher Brick Co.
Lesueur, W. D. & C. H.
Lewis, E. T. Co.
RIPLEY—Ripley Brick Co.
ROBBINS—Southern Clay Mfg. Co.
UNION CITY—Bransford, T. L. & Sons

## TEXAS.

ATHENS—Athens Fire Brick Co.
Athens Pressed Brick Co. (Chas. H. Coleman, Prop.)
AUSTIN—Elgin Butler Brick & Tile Co.
Butler, Michael
BEAUMONT—Gulf States Brick Co.
BLOSSOM—Blossom Brick Co.
BROWNSVILLE—Gulf Coast Brick & Tile Co.
CALAVERAS—Mackey Brick & Tile Mfg. Co.
DALLAS—Atlas Press Brick Works
Harry, J. M. Brick Co.
DENTON—Denton Press Brick Co.
ELGIN—Elgin Butler Brick & Tile Co.
Elgin Press Brick Co.
EL PASO—El Paso Brick Co.
Paul's Brick Co.
Sorenson & Morgan
FERRIS—Diamond Press & Brick Co.
Ferris Press Brick Co.
Globe Press Brick Co.
Lone Star Press Brick Co.
Texas Press Brick Co.
FORT WORTH—Fort Worth Brick Co.
Texas & Pacific Coal Co.
GAINESVILLE—Gainesville Brick Co.
HOUSTON—Brady Brick Wks
Brady, Sherman Brick Co
Brown Brick & Tile Co
Butler Brick Wks, Inc
Harrisburg Brick Co
Lucas, Alfred T.
Pullum's Standard Brick Wks
South Houston Brick & Tile Co.
KENNEDALE—Kennedale Brick Works
LAREDO—Johnson, S. N.
LONGVIEW—Longview Pottery (R. F. Echols, Prop.)
McDADE—McDade Brick Co.
MARSHALL—Higgins, James
PALMER—Palmer Pressed Brick Works
SAN ANTONIO—Mackey Brick & Tile Mfg. Co.
SEGUIN—Souka, Joseph
WACO—Waco Brick Co.

## UTAH.

LOGAN—Logan Brick & Lime Co.
OGDEN—Calvert & Leek
Gessel Pressed Brick Co.
Odgen Pressed Brick & Tile Co.
PROVO—Provo Pressed Brick Co.
SALT LAKE CITY—Improved Brick Co.
Salt Lake Pressed Brick Co.
Utah Fire Clay Co.
SANDY—Benson, A.
SMITHFIELD—Smithfield Brick & Tile Co.
SPRINGVILLE—Cook, Mark

## VERMONT.

ESSEX JUNCTION—Drury Brick & Tile Co.
RUTLAND—Rutland Fire Clay Co.

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## VIRGINIA.

ALEXANDRIA—Bromilow Brick Works
ARLINGTON—Virginia Brick Co.
Walker, W. T. Brick Co.
CHARLOTTESVILLE—Charlottesville Brick Co.
CHILHOWIE—Southern Clay Mfg. Co.
COVINGTON—Allegheny Brick Co.
Covington Brick Co.
DANVILLE—Fitzgerald, N. A. & T. J.
Watson, J. T. Brick Corp'n
ELKWOOD—Nalle & Douglas
HAMPTON—Richardson, R. H. & Son
LYNCHBURG—Adams Bros. Payne Co.
MANCHESTER—Redford, Geo. E.
NORFOLK—Eureka Brick Co.
Face, E. W. & Son
Lawrenceville Brick & Tile Co.
Nansemond River Brick & Tile Co.
PETERSBURG—Brister, Chas. M.
Turner, W. R.
RADFORD—Brooks, A. M. & Son
RICHMOND—Baltimore Brick Co.
Burroughs & Mankin
Cheatwood & Blunt
Davis, W. Benjamin
Fulton Brick Works
Powers Bros. & Maynard
Powhatan Clay Mfg. Co.
Ready, Wm. J.
ROANOKE—Adams, Payne & Gleaves (Inc.) (Annual Capacity, 37,000,000)
SALEM—Pierpont, G. R.
STRASBURG—Lemley, L. F. & Sons
SUFFOLK—Suffolk Clay Co.
WATERLOO—New Washington Brick Co.
WEEMS—Buck, Levin T. & Co.
WINCHESTER—Barr, Edw. M.

## WASHINGTON.

COLVILLE—Rusch Bros.
EVERETT—Everett Brick Co.
SEATTLE—Abrahamson Brick Co.
Builders' Brick Co.
Harper-Hill Brick Co.
Hill Brick Co.
Lohse Brick Co.
Pontiac Brick & Tile Co.
Sandstone Brick & Lime Co.
Seattle Brick & Tile Co.
Steele & Steele Brick & Tile Co.
Wepusec Brick Co.
Washington Brick & Tile Co.
SPOKANE—Davie, J. T. & Co.
Dry Pressed Brick Yards (Inc.)
Spokane Brick & Tile Co.
Washington Brick, Lime & Sewer Pipe Co.
TACOMA—Goss, F. H. Brick Co.
Redondo Clay Co.
Red Rock Brick Co.
West Coast Brick & Tile Co.
WALLA WALLA—Walla Walla Brick & Stone Co.
Walla Walla Brick & Tile Co.

## WEST VIRGINIA.

CHARLESTON—Kanawha Brick Co.
CLARKSBURG—Clarksburg High Grade Shale Brick Co.
ELKINS—Elkins Brick Co.
FAIRMONT—Hutchinson-Barnes Brick Co.
HUNTINGTON—West Virginia Paving & Pressed Brick Co.
HURRICANE—McCallister, Wm. H.
MARTINSBURG—Buxton, G. W.
MORGANTOWN—Morgantown Brick Co.
NEW CUMBERLAND—Claymont Brick Works
Mack Mfg. Co. (Building & Foundation)
West Virginia Fire Clay Works
PHILIPPI—Philippi Brick & Tile Co.
WESTON—Keener, Geo. I.
Weston Brick Co.
WHEELING—Suburban Brick Co.

## WISCONSIN.

ATHENS—Athens Brick & Tile Co.
AUGUSTA—Johnson, W. E.
BARRONETT—Peterson, Martin
BURLINGTON—Burlington Brick & Tile Co.
CHIPPEWA FALLS—Chippewa Brick Mfg. Co.
DE PERE—Hockers, John
Roffers, John
ELKHORN—Sprague, E. H.
FOND DU LAC—Fond du Lac Pressed Brick Co.
GRAND RAPIDS—Grand Rapids Brick Co.
Lessig, John & Son
JANESVILLE—Janesville Granite Brick & Stone Co.
Janesville Red Brick Co.
JEFFERSON—Jefferson Brick & Tile Mfg. Co.
Kemmeter Bros.
LA CROSSE—Schnell Bros.
MADISON—Stephens, David
Wisconsin Brick Co.
MANITOWOC—Manitowoc Clay Products Co.
MENOMONIE—Hydraulic Press Brick Co.
Wisconsin Red Pressed Brick Co.
MILWAUKEE—Burnham Bros., 525 Howell av
Davelaar, M. & Son, Ellen & Pryor av
Standard Brick Co., 496 Clement av
NEILLSVILLE—Shoengarth, Aug.
NESHKORO—Nest, G. J.
NEW LONDON—Prahl, August
Zerrenner Bros.
PLYMOUTH—Krauss, Otto
PORTAGE—Sanborn Brick & Ice Co.
PORT WASHINGTON—Gunther Bros.
RACINE—Baumann, Otto
Haumerson, F. H. & Sons
Hilker Bros. Brick Mfg. Co.
SCHLEISINGERVILLE—Baehring, H. W.
Rosenheimer, Jno.
SHEBOYGAN—Sheboygan Brick & Tile Co.
Zimbal Brick Co.
STEVENS POINT—Langenberg. Wm. E.
Stevens Point Brick Mfg. & Cons. Co.
UNION GROVE—Nisen, Michael
WATERTOWN—Cordes, L. H. & Co.
WAUSAU—Ringle Brick Co.

## WYOMING.

LARAMIE—Wyoming Pressed Brick Co.

## 993—Brick (Copper Converter)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 994—Brick (Copper Reverberatory Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 995—Brick (Copper Smelting & Refining Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 996—Brick (Crucible Steel Melting Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTORies** Co. ("Star Silica." "Woodland" Brands), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Brick (Cupola)

(See Cupola Linings & Blocks)

## 997—Brick (Dross Furnace)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Brick (Dutch Clinker)

(See Brick, Clinker)

## 997a—Brick (Dutch Oven)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 998— Brick (Enameled)

American Enameled Brick & Tile Co., 1182 B'way, New York

Blue Ridge Enameled Brick Co., Prudential bldg, Newark, N. J.

**CARTER, BLACK & AYRES, Inc.** (Mfrs. Agents), 1182 B'way, New York. (See adv. index, end of book)

Enamel Brick Co., Des Moines, Ia.

Gladding, McBean & Co., San Francisco, Cal. Works: Lincoln, Cal.

Los Angeles Pressed Brick Co., Los Angeles, Cal.

Old Bridge Enameled Brick & Tile Co., Old Bridge, N. J.

**SAYRE & FISHER CO. (Also Ornamental),** 261 B'way, New York. Works, Sayreville, N. J. (See adv. Front Inside Cover)

Tiffany Enameled Brick Co., Momence, Ill.

## 999—Brick (Enameling Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## Brick (Face)

(See Brick, Front)

## 1000— Brick (Fire)

### ALABAMA.

ASHBY—Ashby Brick Co.
BESSEMER—Bessemer Fire Brick Co.
BIRMINGHAM—Bessemer Fire Brick Co.
**HARBISON-WALKER REFRACtories** Co. (Main Offices, Pittsburg, Pa.) Brower-Marx bldg. (See adv. index. end of book)
North Birmingham Fire Brick & Proofing Co.
WYLAN—**HARBISON-WALKER REfractories Co.** (Main Offices Pittsburg, Pa.) (See adv. index, end of book)

### CALIFORNIA.

ALAMEDA—Clark, N. & Sons
LINCOLN—Gladding, McBean & Co.
LOS ANGELES—Los Angeles Pressed Brick Co.
St. Louis Fire Brick & Clay Co.
SAN FRANCISCO—Carnegie Brick & Pottery Co.
Clark, N. & Sons
Gladding, McBean & Co., Crocker bldg
Steiger Terra Cotta & Pottery Works

### COLORADO.

CANON CITY—Diamond Fire Brick Co.
DENVER—Denver Fire Clay Co.
Denver Sewer Pipe & Clay Co.
PUEBLO—Standard Fire Brick Co.

### CONNECTICUT.

NEW HAVEN—Howard Co.
Stow, S. J. (Stove)

### DELAWARE.

WILMINGTON—Delaware Terra Cotta Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Keystone Furnace Co. (Interlocking)

### GEORGIA.

COLUMBUS—Columbus Fire Brick Co.
AUGUSTA—Georgia Vitrified Brick & Clay Co.
MACON—Stevens, H. Sons & Co.
ROME—Crucial Fire Brick Co.

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## ILLINOIS.

CARBON CLIFF—Argillo Works
CHICAGO—**AMERICAN REFRACTORIES** Co., 125 Clark, Chicago, Ill. (See adv. index, end of book)
Chicago Retort & Fire Brick Co., 115 Adams
Chicago Sewer Pipe Co., 79 Dearborn
Dee, Wm. E. Co., 169 Jackson blvd
**HARBISON-WALKER REFRACTORIES** Co. (Main Offices Pittsburg, Pa.), Commercial Nat'l Bank bldg. (See adv. index, end of book)
**NATIONAL FIRE PROOFING CO.,** Commercial Nat'l Bank bldg. (See adv. index, end of book)
Southern Fire Brick & Clay Co., Chamber of Commerce bldg
GRANITE CITY—Western Fire Brick Co.
JOLIET—**AMERICAN REFRACTORIES** Co. (See adv. index, end of book)
MONMOUTH—Monmouth Mining & Mfg. Co.
STREATOR—Streator Clay Mfg. Co.
UTICA—Utica Fire Brick Co.

## INDIANA.

EAST CHICAGO—**HARBISON-WALKER** Refractories Co. (East Chicago Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
EVANSVILLE—Uhl Pottery Co.
FORT WAYNE—Moellering, W. H. F.
HILLSDALE—Hillsdale Fire Brick & Clay Co.
Southern Fire Brick & Clay Co. (See Chicago, Ill.)
MONTEZUMA — Burns-Hancock Fire Brick & Clay Co

## IOWA.

MASON CITY—Mason City Clay Works

## KANSAS.

WICHITA—Wichita Silex Brick Co.

## KENTUCKY.

ASHLAND—Ashland Fire Brick Co.
HIGHLAND PARK—Louisville Fire Brick Wks
OLIVE HILL (Carter Co.)—**HARBISON-**Walker Refractories Co. (Kentucky Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)

## MARYLAND.

BALTIMORE—Baltimore Retort & Fire Brick Co., Hull c Nicholson
Baltimore Terra Cotta Works, Covington & Vulcan Fire Brick Co. Clement
FROSTBURG—Savage Mountain Fire Brick Co.
MOUNT SAVAGE—Union Mining Co.
NORTH EAST—Columbia Brick & Plaster Co.
Green Hill Fire Brick Works
North East Fire Brick Co.
United Fire Brick Co.
SALISBURY—Salisbury Brick Co.

## MASSACHUSETTS.

BOSTON—Eastern Clay Goods Co., 79 Milk
Fiske & Company (Inc.), 25 Arch
**HARBISON-WALKER REFRACTORIES** Co. (Main Offices, Pittsburg, Pa.), C. T. Jackson, 9 Chapel, West Somerville. (See adv. index, end of book)
DIGHTON—Dighton Stove Lining Co.
SPRINGFIELD—**SPRINGFIELD FACING** Co. (See adv. index, end of book)
TAUNTON—Presbrey Stove Lining Co.
Taunton Stove Lining Co.
Union Stove Lining Co.
Williams Stove Lining Co.

## MICHIGAN.

DETROIT—**HARBISON-WALKER REFRACTORIES** Co. (Main Offices, Pittsburg, Pa.), J. L. Graham, Cadillas Hotel. (See adv. index, end of book)
Holmes, F. B. & Co., Hammond bldg
Houghton, Henry, Hammond bldg
Little, C. H. Co., Peninsular B'k bldg
IONIA—Ionia Pottery Co.

## MINNESOTA.

MINNEAPOLIS—Northwestern Fireproofing Wks
Superior Mfg. Co.
NEW ULM—Aufderheide, Fred.

## MISSOURI.

FULTON—Fulton Fire Brick Co.
KANSAS CITY—Dickey, W. S.
ST. LOUIS—Blackmer & Post Pipe Co., Wainwright bldg
Central Shale Brick Co., Benvist bldg.
Works, Golden Eagle, Ill.
Evens & Howard Fire Brick Co., 920 Market
Grand View Fire Clay Mines (A. A. Van Cleave, Propr.), Dale av & Kraft
Laclede-Christy Clay Products Co.
**MISSISSIPPI GLASS CO., Main &** Angelica. (See adv. index, end of book)
Missouri Fire Brick Co., 411 Olive
Mitchell Clay Mfg. Co., 5625 Manchester av
Parker-Russel Mining & Mfg. Co., 722 Chestnut
St. Louis Vitrified & Fire Brick Co., Wainwright bldg

## NEBRASKA.

BEATRICE—Beatrice Brick Works
BURNHAM—Yankee Hill Brick Co.

## NEW HAMPSHIRE.

ROCHESTER—Kiesel Fire Brick Works

## NEW JERSEY.

CAMDEN—Reeve, Augustus
JERSEY CITY—Gautier, J. H. & Co.
KEASBEY—Didier-March Co.
MAURER — **MAURER, HENRY & SON.** (All Kinds for Steel, Iron, Copper & Glass Works, Blast Furnaces, Rolling Mills, etc.). (See adv. index, end of book)
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SOUTH AMBOY—**SOUTH AMBOY TERRA**
TRENTON—Superior Fire Lining Co. Cotta Co.
Trenton Fire Brick Mfg. Co.
Trenton Fire Clay & Porcelain Co.
WOODBRIDGE—Berry, James E.
Mutton Hollow Fire Brick Co.
Valentine, M. D. Bro. Co.
Valentine, R. N. & H. Co.

## NEW YORK.

ALBANY—Newton Fire Brick Co.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bray & Lukens Co.
Hall & Sons, 69 Tonawanda
**HARBISON-WALKER REFRACtories Co.** (Main Offices, Pittsburg, Pa.), K. D. Clark, Touraine Hotel. (See adv. index, end of book)
Lyth, A. & Sons Co., 48 Eagle
Lyth Tile Co., Ellicott sq

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Brooklyn Fire Brick Works, 88 Cooper, John, 111 Clay Van Dyke
Greenpoint Fire Brick Works, 111 Clay

### Boroughs of Manhattan & Bronx.

NEW YORK—Didier-March Co., 50 Church
Fiske & Co. (Inc.), Flatiron bldg
**FLEMING & CO. (Blue Welsh),** 253 B'way. (See adv. index, end of book)
Hammill & Gillespie (Importers), 240 Front
**HARBISON-WALKER REFRACtories Co.** (Main Offices, Pittsburg, Pa.), 30 Church, New York. Agt., J. R. Robinson, 120 E. 80th. (See adv. index end of book)
**KREISCHER BRICK MFG. CO.,** 119 E. 23d. (See adv index, end of book)
**MAURER, HENRY & SON (All** Kinds for Steel, Iron, Copper & Glass Works, Blast Furnaces, Rolling Mills, etc.) 420 E 23d. (See adv. Inside Front Cover)
**MISSISSIPPI GLASS CO., 115** B'way. (See adv. index, end of book)
**NATIONAL FIRE PROOFING CO.,** Flatiron bldg. (See adv. index, end of book)
Ostrander Fire Brick Co., 417 W 14th
Perth Amboy Fire Brick Co., 114 Liberty. Works: Perth Amboy, N. J.
**SAYRE & FISHER CO. (For All** Purposes), 261 B'way. (See adv. Inside
**Union Mining Co., 1 B'way Front Cover)**

### Borough of Richmond.

KREISCHERVILLE—**KREISCHER** Brick Mfg. Co. (See adv. index, end of book)

**(End of New York City)**

PEEKSKILL—Horton, S. D.
ROCHESTER—Rochester Brick & Tile Mfg. Co.
Rochester Sewer Pipe Co.
SYRACUSE—Pack, Geo. & Son
Robinson Clay Product Co.
**TROY—McLEOD & HENRY CO. (High** Grade). (See adv. index, end of book)
Ostrander Fire Brick Co.

## NORTH CAROLINA.

POMONA—Pomona Terra Cotta Co.

## OHIO.

AKRON—Akron Fire Brick Co.
American Sewer Pipe Co.
Robinson Clay Product Co.
ALLIANCE—Auld, Jno. & Sons Co.
CINCINNATI—Taylor's, Chas. Sons Co. (And Fire Tile)
CLEVELAND—Dover Fire Brick Co., Cuyahoga bldg
**HARBISON-WALKER REFRACtories Co. (Main Offices, Pittsburg, Pa.)** V. A. Giesey, Hollenden Hotel. (See adv. index, end of book)
**Knauff & Esterbrook, Aetna rd, at P. R. R., S E**
Minor Fire Brick Co., Superior bldg
National Fire Brick Co., Superior bldg
**NATIONAL FIRE PROOFING CO.,** Cuyahoga bldg. (See adv. index, end of
Stowe-Fuller Co., Rockefeller bldg book)
COAL GROVE—Petersburg Fire Brick & Tile
COLUMBUS—Buckeye Brick & Block Co.
Columbus Brick & Terra Cotta Co.
Ferris, Warren B. (The), Co.
DELAWARE—Delaware Clay Mfg. Co.
EAST LIVERPOOL—McLean Fire Brick Co.
**EIFORT—Portsmouth Refractories Co.**
EMPIRE—Minor Fire Brick Co.
**Standard Fire Brick Co.**
Stratton Fire Clay Co.
IRONDALE—**East Ohio Sewer Pipe Co.**
**Standard Fire Brick Co.**
IRONTON—Ashland Fire Brick Co.
**LOGAN—Logan Clay Product Co.**
MARIETTA—Cisler, Thos. & Son
MASSILLON—Everhard Co.
Massillon Stone & Fire Brick Co.
MILLERSBURG—Millersburg Brick & Tile Co.
MINERAL CITY—Federal Clay Product Co.
Holden, C. E.
NELSONVILLE—Hocking Valley Fire Clay Co.
NILES—Niles Fire Brick Co.
OAK HILL—Aetna Fire Brick Co.
Davis Fire Brick Co.
Jones Fire Brick & Cement Co.
Oak Hill Fire Brick & Coal Co.
Ohio Fire Brick Co.
PORTSMOUTH—Carlisle Paving Brick Co.
**HARBISON-WALKER REFRACtories Co.** (Portsmouth Works); (Main Offices, Pittsburg, Pa. (See adv. index, **Kentucky Fire Brick Co.** end of book)
Pyro Clay Products Co. ("Pyro," "Durex")
Portsmouth Refractories Co.
**SCIOTOVILLE — HARBISON-WALKER Refractories Co. (Scioto Star Works) (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)**
**Scioto Fire Brick Co.**
STRASBURG—Columbia Fire Brick Co.
Dover Fire Brick Co.
**National Fire Brick Co.**
TORONTO—American Sewer Pipe Co. (See Toronto Fire Clay Co. Akron, O.)
UHRICHSVILLE—Buckeye Fire Clay Co.
YOUNGSTOWN—Bessemer Limestone Co.
ZANESVILLE—Townsend, T. B. Brick & Contracting Co.

## PENNSYLVANIA.

ALLENTOWN—Downing. Joseph
APOLLO—Apollo Silica Brick Co.
BEECH CREEK—Penna. Fire Brick Co.

HENDRICKS COMMERCIAL REGISTER

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

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BLANDBURG (Cambria Co.)—**HARBISON-Walker Refractories Co. (Cambria Works); (Main Offices, Pittsburg, Pa.)** (See adv. index, end of book)
BOLIVAR—Garfield Fire Clay Co.
CATASAUQUA—Lehigh Fire Brick Co.
CHESTER—**HARBISON-WALKER REfractories Co. (Chester Works); (Main Offices, Pittsburg, Pa.), Welsh st.** (See adv. index, end of book)
CLEARFIELD—Clearfield Clay Working Co.
**CLEARFIELD FIRE BRICK CO.**
**HARBISON-WALKER REFRACtories Co. (Clearfield Works); (Main Offices, Pittsburg, Pa.).** (See adv. index, end of book)
CONNELLSVILLE—Soisson, Jos. Fire Brick Co.
CURWENSVILLE—Bickford Fire Brick Co.
DARLINGTON—Darlington Brick & Mining Co.
Steffler & Brown
DUBOIS—DuBois Clay Mfg. Co.
DUNBAR—United Fire Brick Co.
FALLSTON—Fallston Fire Clay Co.
Penna Clay Co.
Standard Fire Clay Co.
FARRANDSVILLE (Clinton Co.)—**HARBIson-Walker Refractories Co. (Farrandsville Works); (Main Offices, Pittsburg, Pa.).** (See adv. index, end of book)
GRAMPIAN (Clearfield Co.)—**HARBISON-Walker Refractories Co. (Widemire Works), (Main Offices, Pittsburg, Pa.)** (See adv. index, end of book)
HAYS STATION—**HARBISON-WALKER** Refractories Co. (Hays Works); (Main Offices, Pittsburg, Pa.), Mail, P. O. Box Hazelwood, Pittsburg, Pa. (See adv. index, end of book)
JOHNSTOWN—Haws, A. J. & Sons (Ltd.)
Savage Fire Brick Co.
Swank's, Hiram Sons
KARTHUS—Karthus Fire Brick Co.
LATROBE—McFeeley Brick Co.
LAYTON—**HARBISON-WALKER REfractories Co. (Layton Works); (Main Offices, Pittsburg, Pa.).** (See adv. index, end of book)
LOCK HAVEN—Lock Haven Fire Brick Co.
Queen's Run Fire Brick Co.
LOCKPORT STATION—Gardner, James, Jr.
McKEESPORT—Layton Fire Clay Co. Co.
Turner & Bailey Co.
Union Sewer Pipe Co.
MANORVILLE — **HARBISON-WALKER** Refractories Co. (Manorville Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
MILL HALL—**HARBISON-WALKER** Refractories Co. (Mill Hall Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
Mill Hall Brick Works
MONACA—Welch-Bright Co.
MONONGAHELA—Courtney Fire Brick Co.
Monongahela Clay Mfg. Co.
MONUMENT (Clinton Co.)—**HARBISON-**Walker Refractories Co. (Monument Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
MOUNT BRADDOCK—Eureka Fire Brick Wks
MOUNT UNION—**HARBISON-WALKER** Refractories Co. (Mount Union Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
Mount Union Silica Brick Co. (Silica)
NEW BRIGHTON—Brighton Fire Brick Co.
Ingram & Co.
Smith, A. F. Co.
NEWCASTLE—Croton Limestone & Brick Co.
Neshannock Brick Co.
Newcastle Portland Cement Co.
ORVISTON—Hayes Run Fire Brick Co. (Difficult Shapes a Specialty)
OSCEOLA MILLS—Osceola Silica & Fire Brick Co.
PHILADELPHIA—Borgner, Cyrus Co., 23d ab Boulter Mfg. Co., 234 N 23d Race
**HARBISON-WALKER REFRACtories Co. (Main Offices, Pittsburg, Pa.), Real Estate Trust bldg.** (See adv. index, end of book)
Hyzer & Lewellen, 952 N 9th
**McHenry, James, 2310 Wash'n av**
Mack Mfg. Co., Land Title bldg
**MAURER, HENRY & SON (All Kinds for Steel, Iron, Copper & Glass Works. Blast Furnaces, Rolling Mills, etc.), Penna. bldg.** (See Inside Front Cover)
**NATIONAL FIRE PROOFING CO.**
Land Title bldg. (See adv. index, end of book)
Phila. Clay Material Co., 4629 Girard av
Phila. Fire Brick Works, 2306 Vine
Remmey, Rich. C. Sons Co., Hedley & Del River
Sweeney, Geo. & Co., 1334 Ridge av
PHILIPSBURG — **HARBISON-WALKER** Refractories Co. (Philipsburg Works); (Main Offices, Pittsburg, Pa.), Mail, Wigton, Clearfield Co., Pa. (See adv. index, end of book)
PITTSBURG—**Blackfox Brick Co.**
Clarion Fire Brick Co., Fulton bldg
Dando, Geo. & Co., Fulton bldg
Darlington Brick & Mining Co.
Gloninger & Co.
**HARBISON-WALKER REFRACtories Co. (All Kinds & Shapes for All Purposes), Farmers' Bank bldg.** (See adv. index, end of book)
Kier Fire Brick Co.
McFeely Brick Co.
McLain Fire Brick Co., Fulton bldg
Mack Mfg. Co., Arrott bldg.
Manown Mfg. Co. (Also Sleeves, Nozzles & Runner, etc., for Open Hearth & Bessemer Steel Works, etc.)
**NATIONAL FIRE PROOFING CO.,**
Fulton bldg. (See adv. index, end of book)
Pittsburg Clay Product Co., Keenan bldg
Savage Fire Brick Co., Park bldg
**STAR WORKS, 22d & Railroad.**
Union Mining Co., Oliver bldg
United Fire Brick Co., Arrott bldg
Vanport Brick Co., Farmers' Bank bldg
West Virginia Fire Clay Mfg. Co.
MOUNT UNION—Mount Union Silica Brick Co. (Silica)
PITTSTON—American Brick & Clay Mfg. Co
POWELTON, (Center Co.)—**HARBISON-**Walker Refractories Co. (Retort Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
READING—Fox, E. S. & Co.
Reading Fire Brick Works
RENOVO—Renovo Fire Brick & Clay Works
ROBINSON—Garfield Fire Clay Co. **(Also Sleeves, Nozzles & Runner, etc.), for Open Hearth & Bessemer Steel Works, etc.)**
ROCHESTER—Miller Brick Co.
ROYERSFORD—Rogers & Co.
SALINA—Kier Fire Brick Co.
SANDY RIDGE—Sandy Ridge Fire Brick Co.
ST. MARYS—Elk Fire Brick Co.
SHARON—Sharon Fire Brick Co.
SOUTH FORK—South Fork Fire Brick Co.
TEMPLETON (Armstrong Co.) — **HARBIson-Walker Refractories Co. (Templeton Works); (Main Offices, Pittsburg, Pa.).** (See adv. index, end of book)
UNIONTOWN—United Fire Brick Co.
WALLACETON (Clearfield Co.)—**HARBIson-Walker Refractories Co. (Wallaceton Works); (Main Offices, Pittsburg, Pa.).** (See adv. index, end of book)
WEST DECATUR—Wynn, W. H. & Co. (Inc.)
WILLIAMS—Savage Fire Brick Co.
WILLIAMSPORT—Burns Fire Brick Co.
WOODLAND — **HARBISON - WALKER** Refractories Co. (Woodland Works); **(Main Offices, Pittsburg, Pa.)** (See adv. index, end of book)

## SOUTH CAROLINA.

KILLIAN—Killian Fire Brick Co.

## TENNESSEE.

CHATTANOOGA—Chattanooga Sewer Pipe & Southern Clay Mfg. Co. Fire Brick Co.

## TEXAS.

ATHENS—Athens Fire Brick Co.

## UTAH.

OGDEN—Ogden Sewer Pipe & Clay Co.

## VERMONT.

RUTLAND—**RUTLAND FIRE CLAY CO.** (See adv. index, end of book)

## VIRGINIA.

RICHMOND—Powhatan Clay Co.

## WASHINGTON.

AUBURN—Northern Clay Co.
LITTLE FALLS—Little Falls Fire Clay Co.
SEATTLE—Denny-Renton Clay & Coal Co.
SPOKANE—American Fire Brick Co.
Huetter, Jno. T.
Washington, Brick, Lime & Sewer Pipe Co.

## WEST VIRGINIA.

FAIRMONT—Hammond Fire Brick Co.
GRAFTON—Thornton Fire Brick Co.
NEW CUMBERLAND—Mack Mfg. Co.
West Virginia Fire Clay Mfg. Co.

## 1001—Brick (Fire Flashed)

Acme Brick Co., Cayuga, Ind.
Buckeye Brick & Block Co., Columbus, O.
Iron Clay Brick Co., Columbus, O.
Federal Clay Product Co., Mineral City, O.
**KREISCHER BRICK MFG. CO., 119** E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
Progress Press Brick & Machine Co., 3205 S King's Highway, St. Louis, Mo.
**SAYRE & FISHER CO., 261 Broad**way, N. Y. Works: Sayreville, N. J. (See adv. Front Inside Cover)
Shawnee Flash Brick Co., Columbus, O.

## 1002—Brick (Fire, Plastic)

Betson Plastic Fire Brick Co., Rome, N. Y.

## 1003—Brick (Forging Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg., Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 1004— Brick (Foundry)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies Co. (For All Purposes), Farmers' Bank bldg., Pittsburg, Pa.** (See adv. index & **branch offices, end of book)**
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)


**Hendricks' Commercial Register**

**is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.**

*When writing to firms whose names appear in this book please mention*

**Hendricks' Commercial Register**


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**CARTER, BLACK & AYERS,**

1182 Broadway, = NEW YORK

Telephone 2577 Gramercy

ENAMELED BRICKS——FIRE-PROOFING

**IMPERVIOUS FRONT BRICKS**

ARCHITECTURAL TERRA COTTA. ROOFING TILES.

## 1005— Brick (Front)

Firms indicated by a dagger (†) in front of their name manufacture both Standard & Roman sizes.

Manufacturers of Ornamental shapes are indicated thus (Also Ornamental) between their name and address.

CONSULT INDEX OF CONTENTS FOR OTHER BRICK & CLAY PRODUCTS.

### ALABAMA.

BIRMINGHAM—**Copeland Brick Co.**
Sibley-Menge Press Brick Co.
**HARBISON-WALKER REFRAC**tories Co. (Main Offices, Pittsburg, Pa.), Brown-Marx bldg. (See adv. index, end
MONTGOMERY—Holt Brick Co. of book)
**WYLAM—HARBISON - WALKER RE**fractories Co. (Birmingham Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)

### ARIZONA TERRITORY.

TUCSON—Tucson Pressed Brick Co.

### CALIFORNIA.

LINCOLN—†Gladding, McBean & Co. (Buff & Ornamental)
LOS ANGELES—California Ornamental Brick Co.
†Los Angeles Pressed Brick Co. (All Shapes & Colors)
SAN FRANCISCO—Carnegie Brick & Pottery
Clark, N. & Sons Co.
†Gladding, McBean & Co. (Buff & Ornamental), Crocker bldg
Golden Gate Brick Co.
Steiger Terra Cotta & Pottery Works
STOCKTON—San Joaquin Brick Co.

### COLORADO.

BOULDER—Boulder Pressed Brick & Lumber
DENVER—Colfax Pressed Brick Co. Co.
Denver Pressed Brick Co.
Denver Sewer Pipe & Clay Co.
Fairview Brick Co.
PUEBLO—Summit Pressed Brick & Tile Co.

### CONNECTICUT.

BERLIN—Merwin, C. P. Brick Co.
HARTFORD—Hartford Faience Co. (Enameled)
NEW HAVEN—Davis, W. E. & Co.
Howard Co.
Montowese Brick Co.
Stiles, I. L. & Son Brick Co.

### DELAWARE.

WILMINGTON—Oberly, Jas. B.

### DISTRICT OF COLUMBIA.

WASHINGTON—Hydraulic Press Brick Co. (Buff, Red & Ornamental)
Potomac Brick Co.
Virginia Brick Co.
Walker, W. T. Brick Co.
Washington Brick & Terra Cotta Co.
West Bros. Brick Co.

### FLORIDA.

TALLAHASSEE—Tallahasee Pressed Brick Co.

### GEORGIA.

ATLANTA—Hood, B. Mifflin
Chattahoochee Brick Co. (Red)
AUGUSTA—Georgia Vitrified Brick & Clay Co.
GRIFFIN—Griffin Press Brick Co.
MACON—Stevens', H. Sons & Co.
MILLEDGEVILLE—Oconee Brick & Tile Co.
ROME—Crucial Fire Brick Co. (Mottled Colors)
Rome Brick Co. (Buff & Red)

### ILLINOIS.

ALTON—**Acme Pressed Brick Co.**
BEARDSTOWN—Meyer, H. C.
BELLEVILLE—Belleville Brick Co. (Red, Press-
Standard Brick Co ed & Ornamental)
BLOOMINGTON — Bloomington Pressed Brick Co.
CHICAGO—American Brick Co., 134 Wash'n
American Sand-Lime Brick Co., 77 Jackson blvd
Bach Brick Co., 2647 Montrose blvd
Burke, Alex. S., 40th av & W 19th
Chicago Brick Co., Chamber of Com. bldg
Dee, W. E. Co., 108 LaSalle
**HARBISON-WALKER REFRAC**tories Co. (Main Offices, Pittsburg, Pa.) Commercial Nat'l Bank bldg. (See adv. index, end of book)
Hydraulic Press Brick Co. (Buff, Red & Ornamental), 138 Washington
**Illinois Brick Co.**, Chamber of Com. bldg
Kemnitz Brick Co., 1100 Oakdale av
Kimbell, S. S. Brick Co., 138 Washington
National Brick Co., 84 Lasalle
Sexton, Jno. M. L., 1459 Michigan av
COLLINSVILLE—Hydraulic Pressed Brick Co.
DANVILLE—Western Brick Co. (Red Repressed, Sand, Mould & Wire Cut)
DECATUR—Decatur Brick Co.
EDWARDSVILLE—Richards Brick Co.
HAMPSHIRE—Backus & Sholes
LA SALLE—†La Salle Pressed Brick Co. (Buff, Red & Ornamental)
MASCOUTAH—National Pressed Brick Co.
MOMENCE—Tiffany Enameled Brick Co. (Red & Ornamental)
MOUNT VERNON—Mt. Vernon Press Brick Co.
NASHVILLE—Nashville Press Brick Co.
OLNEY—Olney Paving Brick & Tile Mfg. Co.
PAWNEE—Farnum, L. C.
QUINCY—Gem City Press Brick Co.
STREATOR—Barr Clay Co.
Streator Paving Brick Co.
TROY—Troy Pressed Brick Co.

### INDIANA.

ANDERSON—Indiana Brick Co. (Sand Moulded Face)
BRAZIL—Brazil Clay Co. (Buff Iron Spot, etc.)
Indiana Paving Brick & Block Co.
BROOK—Brook Terra Cotta, Tile & Brick Co.
CAYUGA—Acme Brick Co. (Red, Buff, Mottled, Grey, Brown & Black, **Flashed, etc.**)
EAST CHICAGO—**HARBISON - WALKER** Refractories Co. (East Chicago Works); Main Offices, Pittsburg, Pa. (See adv. index, end of book)
HILLSDALE—**Hillsdale Fire Brick & Clay Co.**
HUNTINGBURG — **Huntingburg Dry Press Brick Co**
INDIANAPOLIS—Adams Brick Co., 230 E
Marion Brick Works (Red) Ohio
NEW ALBANY—**Goetz Pressed Brick Co. (Red & Colors)**
TERRE HAUTE—**Terre Haute Pressed Brick Co**

### IOWA.

DES MOINES—Des Moines Clay Mfg. Co.
Iowa Brick Mfg. Co.
GLADBROOK—Gethmann Brick Co.
GRAND JUNCTION—**Goodwin Tile & Brick Co.** (Buff, Standard Shapes Only)
JEWELL—**Jewell Brick & Tile Co.**
LEHIGH—Campbell, James
Lehigh Clay Products Co.
MASON CITY—**American Brick & Tile Co.**
Mason City Brick & Tile Co.
Mason City Clay Works
MONTICELLO—Dautremont, Frank
MUSCATINE—**Muscatine Pressed Brick Co.**
SERGEANT BLUFFS—Holman Brick Co.
SIOUX CITY—**Sioux City Brick & Tile Works**
VAN METER—Platt Pressed & Fire Brick Co
WEBSTER CITY—**Webster City Brick & Tile Co**

### KANSAS.

BUFFALO—Buffalo Brick Co.
CHANUTE—Hydraulic Press Brick Co.
CHERRYVALE—Federal Betterment Co.
Southwestern Brick Co.
COFFEYVILLE—Coffeyville Shale Brick Co.
Coffeyville Vitrified Brick & Tile Co.
IOLA—Union Brick Co. (Repressed, etc.)
TOPEKA—Capital City Vitrified Brick & Paving Co.

### KENTUCKY.

COVINGTON—**Busse Brick Co.**
FULTON—Bransford, G. H. & Son
LEXINGTON—**Lexington Brick Co.**
LOUISVILLE—Hydraulic Brick Co. (Inc.)
MAYSVILLE—**Spahr Pressed Brick Works**
NEWPORT—Newport Pressed Brick & Stone Co.
OLIVE HILL (Carter Co.) — **HARBISON-**Walker Refractories Co. (Kentucky Works); Main Offices, Pittsburg, Pa. **(See adv. index, end of book)**
OWENSBORO—Owensboro Press Brick Co.
PADUCAH—Katterjohn Brick Co.

### LOUISIANA.

BATON ROUGE—Baton Rouge Brickyard
NEW ORLEANS—Pelican Pressed Brick Co.
Salmen Brick & Lumber Co. (Ltd.)

### MAINE.

SACO—**Saco Brick Co.**
WATERVILLE—Purinton, Horace Co.

### MARYLAND.

BALTIMORE—Baltimore Brick Co. (Red), Maryland Trust bldg
Burns & Russell Co., American bldg
**Hydraulic Press Brick Co.**
Independent Brick Co., Maryland Trust bldg
**Westport Paving Brick Co.**, Abell bldg
CUMBERLAND—Queen City Brick & Tile Co.
EASTON—**White, J. H. & Son**
ST. MICHAELS—**Hope, Clifton**
SALISBURY—**Salisbury Brick Co.**

### MASSACHUSETTS.

BOSTON—**Fiske & Company (Inc.) (All Colors & Shapes), 25 Arch**
**HARBISON-WALKER REFRAC**tories Co. (Main Offices, Pittsburg, Pa.)
E. T. Jackson, 9 Chapel, West Somerville. (See adv. index, **end of book)**
Phila. & Boston Face Brick Co. (Light & Red), 165 Milk
IPSWITCH—Brown, Walter G.
NORTHAMPTON—Bailey, Wm. A.

### MICHIGAN.

DETROIT—Clippert, Geo. H. & Bro. Brick Co., 1960 Michigan av
**HARBISON-WALKER REFRAC**tories Co. **(Main offices, Pittsburg, Pa.)**
J. L. Graham, Cadillac Hotel. **(See adv. index, end of book)**
Michigan Pressed Brick Co., Lawton av &
IONIA—Vanderheyden, Fred H.
OWOSSO—Frieseke, J. & H.
ZEELAND—Zeeland Brick Co.

### MINNESOTA.

ALBERT LEA—Albert Lea Brick & Tile Co. Buff)
CHASKA—Chaska Brick & Tile Co. (Sand
DRESBACH—Remp, R. Mould Veneers)
MINNEAPOLIS—Wisconsin Red Pressed Brick
NEW ULM—Aufderheide, F. W. Co.
ST. PAUL—Chaska Brick & Tile Co. (Sand
St. Paul Brick Co. Mould Veneers)
Twin City Brick Co. (Buff, Red & Ornamental)
SHAKOPEE—Schroeder Brick & Lime Mfg. Co.
SPRINGFIELD—Ochs, A. C.
WARREN—Lundgren, August

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## MISSISSIPPI.

BROOKHAVEN—Brookhaven Pressed Brick & Mfg. Co. (All Colors)
YAZOO CITY—Montgomery Land Co.

## MISSOURI.

BRUNSWICK—Brunswick Brick & Tile Mfg. Co.
CAPE GIRARDEAU—Cape Girardeau Pressed Brick Co.
CREIGHTON—Creighton Tile & Coal Co.
FESTUS—Festus Pressed Brick Co.
JACKSON—Kasten & Schmuke Pressed Brick Co.
KANSAS CITY—Dickey, W. S. Clay Mfg. Co. (Buff & Red, Standard Shapes Only)
Flanagan Bros. Mfg. Co.
Hydraulic Press Brick Co. (Buff, Red & Ornamental), Gumbel bldg
LEXINGTON—Lexington Triumph Press Brick Co.
MOKEVILLE—St. Louis Vitrified Press Brick
ST. CHARLES—St. Charles Brick Co. Co.
ST. JOSEPH—St. Joseph Pressed Brick Co.
ST. LOUIS—Brockschmitt, Edward, 6529 Manchester av
Central Shale Brick Co. (Buff, Red & Ornamental). Works, Golden Eagle, Ill.
College Hill Press Brick Works, 1400 College av
**Continental Brick Co. (Red Pressed), 915 Olive**
**Enterprise Brick Works Co. (Red Pressed), 915 Olive**
Hydraulic Press Brick Co. (Buff, Red & Ornamental), 705 Olive
†Ittner, Anthony Brick Co. (Red & Ornamental). Odd Fellows' bldg
Missouri Fire Brick Co., 411 Olive
Missouri Press Brick & Improvement Co., Marine av c Osage
National Pressed Brick Co., 721 Olive
Progress Press Brick & Machine Co. (All Colors & Shapes), King's Highway
St. Louis Press Brick Co., Case av & Collins
Superior Press Brick Co., 3190 King's Highway
Winkle Terra Cotta Co., Century bldg

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.

## NEBRASKA.

HASTINGS—Polenske Bros. & Co.
Polenske, Schellak & Co.
OMAHA—Hydraulic Press Brick Co. (Buff, Red & Ornamental)
Smith Brick Co.

## NEVADA.

RENO—Reno Pressed Brick Co.

## NEW HAMPSHIRE.

DOVER—Gage, Elbridge G.
GONIC—Boston Brick Co.

## NEW JERSEY.

HACKENSACK—Hackensack Brick Co.
LITTLE FERRY—Mehrhof, Philip
Mehrhof Brick Co.
NEWARK—Blue Ridge Enameled Brick Co.
Sayre, Jas. R. Jr. & Co.
OLD BRIDGE—Old Bridge Enameled Brick & Tile Co. (Enameled)
ROSENHAYN—†Rosenhayn Face Brick Co.
SAYREVILLE—**SAYRE & FISHER CO.** (See adv. Front Inside Cover)
SOUTH RIVER—Pettit & Co.
Pettit & Cook Co.
South River Brick Co.
Yates Bros.
TRENTON—Applegate, Joseph H.
Donahoe & Nolan

## NEW MEXICO.

ALBUQUERQUE—Albuquerque Pressed Brick & Tile Co.

## NEW YORK.

ALBANY—Smith, Edw. J.
BUFFALO—Brush Bros. (Buff, Red & Ornamental), Builders' Exchange
Buffalo Clay Mfg. Co., Builders' Exchange
Jewettsville Brick Co., Builders' Exchange
**HARBISON-WALKER REFRACtories Co. (Main Offices, Pittsburg, Pa.)**
K. D. Clark, Touraine Hotel. **(See adv. index, end of book)**
Lancaster Brick & Tile Co., Builders' Exch.
Lyth, A. & Sons Co., 48 Eagle
Lyth Tile Co., Ellicott Sq
Schmidt, G. W., 699 Bailey av
CANANDAIGUA—†New York Press Brick Co. (Buff, Red & Ornamental)
CARTHAGE—Wrape & Peck
JAMESTOWN—Jamestown Shale Paving Brick Co.
KREISCHERVILLE—(See New York City, Borough of Richmond)
LA SALLE—La Salle Brick Works

## NEW YORK CITY.

### Boroughs of Manhattan & Bronx.

NEW YORK—**CARTER, BLACK &** Ayers (Inc.) (Mfrs. Agts.), 1182 B'way. (See adv. index, end of book)
Chestnut Ridge White Brick Co. (Eight Colors), 121 W 42d
Fiske & Co. (Inc.) (All Colors & Shapes), Flatiron bldg
**HARBISON-WALKER REFRACtories Co. (Main Offices, Pittsburg, Pa.)** 30 Church; New York Agt., J. R. Robinson, 120 E 80th. (See adv. index, end of book)
Hydraulic Press Brick Co. (Buff, Red & Ornamental), 381 4th av
**Hydraulic Press Brick Co. (Buff, Red & Ornamental), 289 4th av**
**KREISCHER BRICK MFG. CO.** (Buff, Mottled & Ornamental, All Kinds), 119 E 23d. **(See adv. index, end of book)**
Ohio Mining & Mfg. Co. (Buff & Red), 96 Wall
Powhatan Clay Mfg. Co. (White, Silver Grey & Salt & Pepper Grey), 1123 B'way
**SAYRE & FISHER CO. (Various Colors, Plain & Ornamental), 261 B'way.** (See adv. Front Inside Cover)

### Borough of Richmond.

KREISCHERVILLE—**KREISCHER BRICK** Mfg. Co. (Buff, Mottled & Ornamental, All Kinds). (See adv. index, end of book)

**(End of New York City)**

OLEAN—Olean Pressed Brick Co.
ROCHESTER—New York Press Brick Co. (Terra Cotta, Buff, Red & Ornamental)
Rochester Composite Brick Co.
Rochester German Brick & Tile Co.
SYRACUSE—Onondago Vitrified Brick Co.
Robinson Clay Product Co. (Fire & Press)
UTICA—Utica Brick & Tile Co.
WATERTOWN—Watertown Pressed Brick Co. (Red)

## NORTH CAROLINA.

ASHEVILLE—Hildebrand, David
CHARLOTTE—Charlotte Brick Co.
ELIZABETH CITY—Elizabeth City Brick Wks
POMONA—Pomona Terra Cotta Co.

## OHIO.

AKRON—Akron Brick & Tile Co.
Akron Vitrified Clay Mfg. Co.
McCausland Bros.
ATHENS—Athens Brick Co.
BATAVIA—Clermont Brick Co.
BLACK FORK—Black Fork Co. (Buff & Mottled)
BLANCHESTER—Blanchester Brick & Tile Co.
CANTON—**CANTON MFG. CO. (See adv. index, end of book)**
Canton Pressed Brick Co.
CINCINNATI—Moores-Coney Co., Union Trust bldg
Suer & Bros.
Suer, Herman & Sons
CLEVELAND—Barkwill Brick Co., 75th & Kingsbury run, S. E.
Cleveland Brick & Clay Co., Rockefeller bldg
**HARBISON-WALKER REFRACtories Co. (Main Offices, Pittsburg, Pa.)** V. A. Giesey, Hollenden Hotel. **(See adv. index, end of book)**
Hydraulic Press Brick Co. (Buff, Red & Ornamental), Schofield bldg
Ohio Clay Co. (Hollow & Face Brick), Schofield bldg
Shepard, J. J. (All Colors & Shapes), 1078 W 11th, N. W.


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Stowe-Fuller Co., Rockefeller bldg
COLUMBUS—Athens Brick Co. (Wks, Athens)
Claycraft Brick Co. (Velvet, Red, Brown, Gun Metal & Chocolate)
Buckeye Brick & Block Co. (Rough Face, Red, Brown, Black, Buff, Green, etc.)
Columbus Brick & Terra Cotta Co. (Fancy, Buff & Grey Speckled)
Columbus & Hocking Clay & Brick Co.
Ferris, Warren B. Brick Co. ("Mikado")
Ironclay Brick Co. ("Flashed," etc.)
Shawnee Flash Brick Co. (Fire Flashed)
COSHOCTON—Coshocton Brick Co. (Non-Spot,
DELAWARE—Delaware Clay Mfg. Co. etc.)
EIFORT—Portsmouth Refractories Co. (Buff &
HAMILTON—Hamilton Brick Co. Mottled)
HANOVER—Hanover Red Pressed Brick Co.
LOGAN—Logan Clay Product Co. ("Logan," Glazed Vitrified)
LOUISVILLE—Louisville Brick & Tile Co.
McARTHUR—McArthur Brick Co. (Red, Buff, Brown, Grey, etc.)
MARIETTA—Acme Brick Co.
Cisler, Thos. & Son
MASSILLON—Everhard Co.
Massillon Brick Co.
MIDDLETOWN—Smith, Wm. & Co. (Buff Only)
MINERAL CITY—Federal Clay Product Co. ("Sparta" Impervious Buff, Mottled. Flashed, Plain or Glazed)
Holden, C. E. (Buff, Mottled, etc.)
MOGADORE—Colonial Pressed Brick Co.
NEW LEXINGTON — New Lexington Press Brick Co.
**OAK HILL—Diamond Brick Co. (Red)**
PORTSMOUTH — **HARBISON-WALKER** Refractories Co. (Portsmouth Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
**Portsmouth Paving Brick Co. (Red)**
SCIOTOVILLE — **HARBISON-WALKER** Refractories Co. (Scioto Star Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
STEUBENVILLE—Nicholson Brick Co.
**STRASBURG—Columbia Fire Brick Co. (Buff)**
National Fire Brick Co.
**TORONTO—Toronto Fire Clay Co. (Buff, Vitrified)**
UHRICHSVILLE—Buckeye Fire Clay Co.
**WADSWORTH—Wadsworth Brick & Tile Co.**
**WARREN—Warren Brick & Tile Co.**
WELLSVILLE—Vulcan Clay & Brick Co.
**YOUNGSTOWN—Bessemer Limestone Co.**
**ZANESVILLE** — †Oakland Press Brick Co. (Buff, Red & Ornamental)
Townsend, T. B. Brick & Contracting Co. (Buff, Red, Standard Shapes Only)

## OKLAHOMA

SAPULPA—Sapulpa Pressed Brick Co.

## PENNSYLVANIA.

ALTOONA—Altoona Brick & Tile Co.
**AUBURN—Auburn Shale Brick Co. (Red)**
**BLANDBURG** (Cambria Co.)—**HARBISON-Walker Refractories Co. (Main Offices, Pittsburg, Pa.) (See adv. index, end of** book)
BOSTON—Harper, C. M. C. Co.
BRADFORD—†Alumina Shale Brick Co. (Buff, Red & Ornamental)
Bradford Pressed Brick Co. (Red & Buff)
Melvin & Peterson (Red)
CHESTER—Fields Brick Co.
**HARBISON-WALKER REFRAC**tories Co. (Chester Works); (Main Offices, Pittsburg, Pa.), Welsh st. (See adv. Law. M. W. index, end of book)
CLEARFIELD—Clearfield Clay Working Co.
**CLEARFIELD FIRE BRICK CO.**
**HARBISON-WALKER REFRAC**tories Co. (Clearfield Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
CORRY—Corry Brick & Tile Co. (Red Repressed)
DARLINGTON—Darlington Brick & Mining Co. (Buff & Ornamental)
DRUMMOND—Shawmut Clay Mfg. Co. (Salt
DUBOIS—DuBois & Butler Brick Co. Glazed)
DUNBAR—Pope Stone & Brick Co.
ERIE—Dudenhoefer, Joseph & Co.
FALLSTON—†Fallston Fire Clay Co. (Buff & Ornamental)
FARRANDSVILLE (Clinton Co.)—**HARBI**son-Walker Refractories Co. (Farrandsville Works) (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
GRAMPIAN (Clearfield Co.)—**HARBISON-Walker Refractories Co. (Widemire Works); Main Offices, Pittsburg, Pa.) (See adv. index, end of book)**
HARRISBURG—Bigler, S. L. (Est. of)
HAYS STATION—**HARIBSON-WALKER** Refractories Co. (Hays Works); (Main Offices, Pittsburg, Pa.), Mail, P. O. Box Hazelwood, Pittsburg, Pa. (See adv. index, end of book)
JOHNSTOWN—Johnstown Pressed Brick Co.
KITTANNING—Kittanning Brick & Fire Clay Co. (Buff, etc.)
KUNKLETOWN—Chestnut Ridge White Brick Co. (Eight Colors)
LANSDALE—Scholl, S. L. & Sons
LAYTON (Fayette Co.) — **HARBISON-**Walker Refractories Co. (Layton Wks.); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
LEHIGHTON—Graver, H. A.
McKEESPORT—Union Sewer Pipe Co.
MILL HALL — **HARBISON - WALKER** Refractories Co. (Mill Hall Works); **(Main Offices, Pittsburg, Pa.) (See adv.** index, end of book)
Mill Hall Brick Works (Red)
MONESSEN—Monessen Brick, Tile & Terra Cotta Works
**MONONGAHELA—Monongahela Clay Mfg. Co.**
MONUMENT (Clinton Co.)—**HARBISON-**Walker Refractories Co. (Monument **Works) (Main Offices, Pittsburg, Pa.)** (See adv. index, end of book)
MOUNT HOLLY SPRINGS—Cumberland Clay Mfg. Co.
MOUNT UNION—**HARBISON - WALKER** Refractories Co. (Mount Union Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
Mt. Union Silica Brick Co.
NEW BRIGHTON—Ingram & Co.
NEWTOWN—Worstall Bros. & Co.
OSCEOLA MILLS—Osceola Silica & Fire Brick
PATTON—Patton Clay Mfg. Co. Co.
PHILADELPHIA—Clay Product Supply Co., 1332 Walnut
Conway, Wm., 58th, c Walnut
Equitable Brick Mfg. Co., 60th c Pine
Hamburg Vitrified Brick Co., Land Title bldg
**HARBISON-WALKER REFRAC**tories Co. (Main Offices, Pittsburg, Pa. Real Estate Trust bldg. (See adv. index, end of book)
Hydraulic Press Brick Co. (Buff, Red & Ornamental), Real Estate Trust bldg
†Jarden Brick Co. (Red & Ornamental), Land Title bldg
McAvoy, Thos. B. Sons, Kensington av & Nicetown la
McAvoy & Morris, S., 31st & Dickinson
Mack Mfg. Co., Land Title bldg
Murtha, D. Charles, N 16th & Butler
PHILIPSBURG — **HARBISON-WALKER** Refractories Co. (Philipsburg Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
PINE GROVE FURNACE—†Fuller Brick & Slate Co. (Buff & Red)
PITTSBURG—Central Brick Co., Diamond B'k bldg
Darlington Brick & Mining Co., 6366 Frankstown av
Gloninger & Co., Arrott bldg.
**HARBISON-WALKER REFRAC**tories Co. (Mottled, etc.), Farmers' Bank bldg. (See adv. index, end of book)
Kittanning Brick & Fire Clay Co. (Buff, Grey & Mottled, Standard & Roman Shapes), Empire bldg
Lincoln Fire Brick & Shape Co., Farmers' Bank bldg
Mack Mfg. Co., Arrott bldg
McLain, E. S. & Son, Fulton bldg
Pittsburg-Buffalo Co., Frick bldg
Sankey Bros., 2112 Carson
**STAR WORKS, 22d & Railroad**
**United Fire Brick Co. (Buff, etc.), Arrott bldg. Works: Dunbar, Pa.**
Vanport Brick Co., Farmers' Bank bldg
Westmoreland Brick Co. (Buff), 2d Nat'l Bank bldg
RALSTON—†Ralston Brick Co. (Buff & Red)
READING—Montello Brick Works
Moyer & Co.
Reading Shale Brick Co.
RENOVO—Renovo Fire Brick & Clay Works
POWELTON (Center Co.)—**HARBISON-**Walker Refractories Co. (Retort Works); (Main Offices, Pittsburg, Pa.). (See adv. index, end of book)
RIDGWAY—Ridgway Brick Co. (Plain Ornamental, Buff, Grey, Mottled, Red, etc.)
ROCHESTER — Beaver Valley Roofing Tile.
Miller Brick Co. Brick & Terra Cotta)
ROYERSFORD—Keeley, Allen T.
**SHAMOKIN—Union Brick Co. (Buff & Red)**
SHAWMUT—Shawmut Brick Works
TEMPLETON (Armstrong Co.) — **HARBI**son-Walker Refractories Co. (Templeton Works) (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
UNIONTOWN—Williams, J. V. & Co.
WALLACETON (Clearfield Co.) — **HARBI**son-Walker Refractories Co. (Wallaceton Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
WEST CHESTER—Guss, H. R. (Est. of)
WOODLAND (Clearfield Co.)—**HARBISON-**Walker Refractories Co. (Woodland Works); (Main Offices, Pittsburg, Pa.) (See adv. index, end of book)
YORK—Kissinger's, Benj. Sons (Red Pressed)
York Shale Press Brick Co.

## RHODE ISLAND.

PROVIDENCE—*New England Steam Brick Co. (Red)

## SOUTH CAROLINA.

SUMMERVILLE—Summerville Brick Works
SUMTER—Sumter Brick Works

## SOUTH DAKOTA.

SIOUX FALLS—Sioux Falls Pressed Brick Co.

## TENNESSEE.

CHATTANOOGA — Chattanooga Press Brick
Chattanooga River Brick Co. Works
Southern Clay Mfg. Co.
DYERSBURG—Nichols, J. M.
KNOXVILLE—Knoxville Brick Co.
NASHVILLE—Bush, W. G. & Co.
Fulcher Brick Co.
RIPLEY—Ripley Brick Co.

## TEXAS.

ATHENS—Coleman, Chas. H.
BEAUMONT—Gulf States Brick Co.
CALAVERAS—Mackey Brick & Tile Mfg. Co
DALLAS—Atlas Press Brick Works
Harry, J. M. Brick Co.
DENTON—Denton Pressed Brick Co.
EL PASO—El Paso Brick Co.
FERRIS—Atlas Pressed Brick Works
Lone Star Pressed Brick Co.
GAINESVILLE—Gainesville Brick Co.
HOUSTON—Brady, Sherman Brick Co.
Butler Brick Works (Inc.)
South Houston Brick & Tile Co.
MILLSAP—Acme Pressed Brick Co.

## UTAH.

OGDEN—Gessel Pressed Brick Co.
Odgen Pressed Brick & Tile Co.
PROVO—Provo Pressed Brick Co.
SALT LAKE CITY—Salt Lake Pressed Brick Co.

## VIRGINIA.

DANVILLE—Fitzgerald, N. A. & T. J.
NORFOLK—Lawrenceville Brick & Tile Co.
Nansemond River Brick & Tile Co.
RICHMOND — †Powhattan Clay Mfg. Co.
White, Silver Grey & Salt & Pepper Grey)
ROANOKE—Adams, Payne & Gleavis (Inc.)

## WASHINGTON.

LITTLE FALLS—*Little Falls Fire Clay Co. (Buff, Red & Ornamental)
SEATTLE—Abrahamson Brick Co.
Builders' Brick Co.
Denny-Renton Clay & Coal Co. (Plain & Harper-Hill Brick Co. Ornamental)
Hill Brick Co.
Pontiac Brick & Tile Co.
SPOKANE—Dry Pressed Brick Yards (Inc.)
Washington Brick, Lime & Sewer Pipe Co.
WALLA WALLA—Walla Walla Brick & Stone Co.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

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## WEST VIRGINIA.

ELKINS—Elkins Brick Co.
HURRICANE—McCallister, W. H.
NEW CUMBERLAND—Mack Mfg. Co. (Vitrified)
WHEELING—Suburban Brick Co.

## WISCONSIN.

CHIPPEWA FALLS—Chippewa Brick Mfg. Co.
JANESVILLE—Janesville Red Brick Co.
JEFFERSON—Jefferson Brick & Tile Mfg. Co.
MADISON—Stephens, David (Cream)
MENOMONIE—Hydraulic Press Brick Co. (Buff, Red & Ornamental)
MILWAUKEE—Standard Brick Co.
RACINE—Hilker Bros. Brick Mfg. Co.
SHEBOYGAN—Sheboygan Brick & Tile Co.
STEVENS POINT—Langenberg, Wm. E.

## 1006–Brick (Furnace Arch & Roof)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**MAURER, HENRY & SON, 420 E. 23d,** New York; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)

## 1006a–Brick (Gas Benches & Settings)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 1007–Brick (Gas Heating Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1008– Brick (Glass)

National Glass Brick Co. (Opalescent & Colored). 24 S 7th. Phila., Pa.
Standard Glass Block Co. (Building & Facing Brick), Frankfort, Ky.

## 1009–Brick (Glass Furnace & Tank)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co. (Silica), Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1010–Brick (Glass Tank, Producer Gas)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1011– Brick (Glazed)

American Enameled Brick & Tile Co., 1182 B'way, New York
Carnegie Brick & Pottery Co., San Francisco
Federal Clay Product Co., Mineral City, O.
Logan Clay Product Co. (Vitrified, Encaustic & Rock Faced), Logan, O.
Markley, Geo. J., Mineral City, O.

## 1011a– Brick (Harvard)

**Fiske & Company (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York**

## 1012–Brick (Heating Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1013– Brick (Hollow)

Akron Brick & Tile Co. (Shale), Akron, O.
American Brick & Tile Co., Mason City, Ia.
Bessemer Limestone Co., Youngstown, O.
Binghamton Litholite Co., Binghamton, N. Y.
Blanchester Brick & Tile Co., Blanchester, O.
Brazil Clay Co., Brazil, Ind.
Buckeye Brick & Block Co., Columbus, O.
Canton Tile Hollow Brick Co., New Bethlehem, Pa.
Chaska Brick & Tile Co., St. Paul, Minn.
Deckman-Duty Brick Co., Collinwood, O.
Denver Sewer Pipe & Clay Co., Denver, Col.
Diamond Brick Co., Oak Hill, O.
Ferris, Warren B. Brick Co., Columbus, O.
Gladding, McBean & Co., San Francisco, Cal.; Works: Lincoln, Cal.
Hanover Brick Co., Morristown, N. J.
Klein, C. H. Brick Co., Chaska, Minn.
Lancaster Brick & Tile Co., Buffalo, N. Y.
McCutcheon, C. H., Lancaster, N. Y.
Mason City Brick & Tile Co., Mason City, Ia.
Mason City Clay Works, Mason City, Ia.
**MAURER, HENRY & SON, 420 E. 23d,** New York; Penna. bldg, Phila., Pa. Works. Maurer, N. J. (See adv. Front Inside Cover)
Merwin Brick Co., Berlin, Conn.
Millersburg Brick & Tile Co., Millersburg, O.
**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Ochs, A. C., Springfield, Minn.
Onondago Vitrified Brick Co., Syracuse, N. Y.
Parker-Russell Mining & Mfg. Co., 722 Chestnut, St. Louis, Mo.
Penna. Fireproofing Co., Erie, Pa.
Pittsburg & Buffalo Co., Frick bldg, Pittsburg, Pa.
Rochester Brick & Tile Mfg. Co., Powers blk, Rochester, N. Y.
**SAYRE & FISHER CO., 261 B'way,** N. Y., & Sayreville, N. J. (See adv. Front Inside Cover)
Sioux City Brick & Tile Works, Sioux City.
Troy Fireproofing Co., Troy, N. Y. Ia.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
Whiteacre Fire Proofing Co., Waynesburg, O.

## 1014–Brick (Hot Blast Stove)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1015– Brick (Ladle)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 1016–Brick (Lead Softening Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1017– Brick (Lime Kiln)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 1018– Brick (Magnesia)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
Federal Refractories Co., Rockefeller bldg., Cleveland, O.
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1019– Brick (Magnesite)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
Atkins, Knoll & Co., San Francisco, Cal.
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Stowe-Fuller Co., Rockefeller bldg., Cleveland, Ohio

## 1020–Brick (Malleable Furnace Shapes)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1021–Brick (Oil Heating Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg. Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 1022–Brick (Open-Hearth Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index. end of book)
**HARBISON-WALKER REFRACTORies** Co. (For Basic & Acid Furnaces), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1022a– Brick (Papestry)

**Fiske & Company (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York**

## 1023– Brick (Pompeiian)

Firms indicated by a (†) in front of their name manufacture both Standard and Roman sizes.
Alumina Shale Brick Co., Bradford, Pa.
Central Shale Brick Co. (Mottled or Ornamental), Benoist bldg., St. Louis, Mo. Works, Golden Eagle, Ill.
Croton Limestone & Brick Co. (Mottled & Ornamental), New Castle, Pa.
Dickey, W. S. Clay Mfg. Co. (Standard Only), N. Y. Life bldg, Kansas City, Mo.
Everhard Co. (Mottled, etc.), Massillon, O.
†Fallston Fire Clay Co. (Mottled & Ornamental), Fallston, Pa.
**Federal Clay Product Co., The (Mottled & Ornamental), Mineral City, O.**
Ferris, Warren B. Brick Co., Columbus, O.
Fiske & Co. (Inc.), 25 Arch, Boston, Mass., & Flatiron bldg, New York
Fulcher Brick Co., Nashville, Tenn.
†Fuller Brick & Slate Co. (Ltd.), Pine Grove Furnace, Pa.
†Gladding, McBean & Co. (Mottled & Ornamental), Crocker bldg, San Francisco, Cal. Works, Lincoln, Cal.
Gloninger & Co., Pittsburg, Pa., & Vanport, Pa.
†Golden Pressed & Firebrick Co. (Mottled & Ornamental), Denver, Col.
**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**Holden, C. E., Mineral City, O.**
Hydraulic Press Brick Co. (Mottled & Ornamental), 705 Olive, St. Louis, Mo.
Ironclay Brick Co., Columbus, O.
†Jarden Brick Co. (Mottled & Ornamental), Land Title bldg, Phila., Pa.
**KREISCHER BRICK MFG. CO., 119** E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
La Salle Pressed Brick Co., La Salle, Ill.
Newcastle Portland Cement Co., New Castle, Pa.
†New York Press Brick Co. (Mottled & Ornamental), Rochester, N. Y.
Powhattan Clay Mfg. Co., Richmond, Va.; 1122 B'way, New York. Works: Clayville, Va.
†Progress Press Brick & Machine Co. (Also Ornamental), St. Louis, Mo.

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†Ridgway Brick Co., Ridgway, Pa.
†**SAYRE & FISHER CO. (Mottled &** Ornamental), 261 B'way, New York. Works, Sayreville, N. J. (See adv. Front Inside Cover)
**Shepard, J. J.** (All Colors), 1078 W 11th, N W, Cleveland, O.
**United Fire Brick Co., Arrott bldg, Pittsburg, Pa. Works: Dunbar, Pa.**
Vanport Brick Co. (Standard Shapes Only), Farmers' Bank bldg, Pittsburg, Pa.

## 1024— Brick (Porcelain)

**SAYRE & FISHER CO. (Dull Finish,** White), 261 B'way, New York. Works, Sayreville, N. J. (See adv. Front Inside Cover)
Union Porcelain Works (Lock Arch & Straight), 300 Eckford, Brooklyn, N. Y.

## 1025—Brick (Pottery Kiln)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## Brick (Pressed)

(See Brick, Front)

## 1026—Brick (Puddling Furnace)

**AMERICAN REFRACTORIES CO., 125 Clark, Chicago, Ill.** (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1027—Brick (Refining Furnace)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 1028—Brick (Regenerator or Checker)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co. (Brick & Tile), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## Brick (Rock Faced)

(See Steel Brick & Rock Face Siding)

## 1029— Brick (Rotary Kiln)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 1030— Brick (Sand Lime)

Aberdeen Sand-Lime Brick Co., Aberdeen, Miss.
Church Brick Co., Sibley, Mich.
Crume Brick Co., Dayton, O.
Kings Crown Plaster Co., Cedar Rapids, Ia.
Menominee Brick Co., Menominee, Mich.
Owensboro Sand Lime Brick Co., Owensboro, Ky.
Savannah Brick Works, Savannah, Ga.
Sioux Falls Pressed Brick Co., Sioux Falls, S. D.
Sugar Grove Brick Co., Columbus, O.
Wichita Silex Brick Co., Wichita, Kan.

## 1031— Brick (Silica)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
Apollo Silica Brick Co.
Atkins, Knoll & Co., San Francisco, Cal.
Blackfox Brick Co., Pittsburg, Pa.
Carbon Brick Co., Pittsburg, Pa.
Diamontd Fire Brick Co., Canon City, Col.
Everhard Co., Massillon, O.
Federal Refractories Co., Rockefeller bldg., Cleveland, O.
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Haws, A. J. & Sons, Johnstown, Pa.
Kier Fire Brick Co., Pittsburg, Pa.
Kittanning Brick & Fire Clay Co., Empire bldg, Pittsburg, Pa.
Los Angeles Pressed Brick Co., Los Angeles, Cal.
McFeeley Brick Co., Diamond Bank bldg, Pittsburg, Pa.
**MAURER, HENRY & SON, 420 E.** 23d, New York, & Penna. bldg., Phila., Pa. Works, Maurer, N. J. (See adv. index, end of book)
Mount Union Silica Brick Co., Mount Union Pa.
Osceola Silica & Fire Brick Co. ("Coffy"), Osceola Mills, Pa.
Perth Amboy Fire Brick Co., 114 Liberty, New York, & Perth Amboy, N. J.
Savage Fire Brick Co., Johnstown, Pa.
Sharon Fire Brick Co., Sharon, Pa.; Works, Wellsville, O.
Soisson. Jos., Fire Brick Co., Connellsville, Pa.
Stowe-Fuller Co., Rockefeller bldg., Cleveland, Ohio

## 1032—Brick (Silica By-Product Coke Oven)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 1033—Brick (Soaking Pit)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1034— Brick (Soapstone)

**Maryland Soapstone Co. (Fire), Baltimore, Md.**

## 1035— Brick (Soda Kiln)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Brick (Stove Lining)

(See Stove Linings)

## 1036— Brick (Talc Fire)

Cohutta Talc Co., Dalton, Ga.

## 1037—Brick (Terra Cotta Kiln)

**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna. bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)

## 1038—Brick (Tin Dross Furnace)

**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1039—Brick (Tropenas Converter)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 1040—Brick (Vanadium Crucible)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 1041—Brick (Vitrified Paving)

(Firms Indicated by a (*) Star also Manufacture Paving Blocks)

### ALABAMA.

BESSEMER—Bessemer Fire Brick Co
BIRMINGHAM—Copeland-Inglis Shale Brick Co.
Graves Shale Brick Paving Co.
COALDALE—Southern Clay Mfg. Co.

### CALIFORNIA.

LOS ANGELES—Los Angeles Pressed Brick Co.
Pacific Sandstone Brick Co.
South California Brick Co.
SAN FRANCISCO—Carnegie Brick & Pottery Clark, N. & Sons Co.

### COLORADO.

DENVER—Denver Sewer Pipe & Clay Co.
Fairview Brick Co.
Silicated Brick Co.
PUEBLO—Colorado Brick & Tile Co.

### DISTRICT OF COLUMBIA.

ANACOSTIA—New Anacostia Brick Co.
WASHINGTON—Potomac Brick Co.

### GEORGIA.

AUGUSTA—Georgia Vitrified Brick & Clay Co.
ROME—Rome Brick Co.

### ILLINOIS.

ABINGTON—Abington Paving Brick & Tile Co.
ALBION—Albion Vitrified Brick Co.
Edwards Vitrified Brick & Sewer Pipe Co.
AVON—Avon Milling & Mfg. Co.
BELLEVILLE—Ittner, Anthony Brick Co.
CARLINVILLE—Moody, John & Son
CHICAGO—Dee. Wm. E. Co., 108 Lasalle
DANVILLE—*Danville Brick Co.
Western Brick Co.
EAST PEORIA—Carter, F. R.
EDWARDSVILLE—Banner Clay Works
GALESBURG—Purington Paving Brick Co.
KANKAKEE—Kankakee Tile & Brick Co.
LODA—Loda Brick & Tile Works
MACOMB—Macomb Sewer Pipe Co.
MATTOON—Mattoon Tile Co.
MONMOUTH—Monmouth Mining & Mfg. Co.
MURPHYSBORO—Murphysboro Paving Brick Co.
OLNEY—Olney Paving Brick & Tile Mfg. Co.
OTTAWA—Ottawa Silica Co.
QUINCY—Gem City Paving Brick Co.
SPRINGFIELD—Springfield Paving Brick Co.
STREATOR—*Barr Clay Co.
Streator Clay Mfg. Co.
*Streator Paving Brick Co. (Side Cut, Repressed, etc.)

### INDIANA.

ANDERSON—Indiana Brick Co.
BRAZIL—*Indiana Paving Brick & Block Co. (W. W. Winslow)
BROOK—Brook Terra Cotta Tile & Brick Co.
CLAY CITY—Clay City Brick & Clay Co.
CLINTON—*Clinton Paving Brick Co.
CRAWFORDSVILLE—*Poston Paving Brick Co.
INDIANAPOLIS—*Indiana Paving Brick & Block Co. (W. W. Winslow)
MARION—Marion Brick Works
TERRE HAUTE—National Drain Tile Co.
Terre Haute Vitrified Brick Co.
VEEDERSBURG—*Wabash Clay Co.

### IOWA.

BOONE—*Boone Brick, Tile & Paving Co.
BURLINGTON—Granite Brick Co.
CLINTON—Iowa Granite Brick Co.
DES MOINES—Des Moines Brick & Tile Co.
*Flint Brick Co.
Iowa Brick Mfg. Co.
Iowa Pipe & Tile Co.
GLADBROOK—Gethman Brick Co. (The)
GRAND JUNCTION—Goodwin Tile & Brick Co.
MASON CITY—Maosn City Brick & Tile Co.
Mason City Clay Works (Inc.)
OSKALOOSA—Oskaloosa Paving Brick Co.
OTTUMWA—Ottumwa Brick & Construction Co.
RIVERSIDE—Swift, H. L.
SIOUX CITY—Sioux City Brick & Tile Works
Sioux Paving Brick Co.

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## KANSAS.

ALTOONA—Altoona Vitrified Brick Co.
ATCHISON—Atchison Paving Brick Co.
BUFFALO—Buffalo Brick Co.
COFFEYVILLE—Coffeyville Shale Brick Co.
Coffeyville Vitrified Brick & Tile Co.
HUMBOLDT—Cleveland Vitrified Brick Co.
IOLA—Iola Brick Co.
Union Brick Co. (Repressed, etc.)
LAWRENCE—Lawrence Vitrified Brick & Tile Co.
LEAVENWORTH—Leavenworth Vitrified Brick Co.
NEODESHA—Verdigris Valley Vitrified Brick & Tile Co.
PITTSBURG—Pittsburg Paving Brick Co.
SALINA—Salina Vitrified Brick Co.
TOPEKA—Capital City Vitrified Brick & Paving Co.
**Topeka Vitrified Brick & Tile Co.**
WICHITA—Wichita Silex Brick Co.

## KENTUCKY.

FIREBRICK—Portsmouth Granite Brick Co.
LOUISVILLE—Kentucky Vitrified Brick Co.
PADUCAH—Katterjohn Brick Co.
PRINCETON—Princeton Brick Co.

## LOUISIANA.

NEW ORLEANS—Salmen Brick & Lumber Co.

## MARYLAND.

BALTIMORE—Burns & Russell Co., American Westport Paving Brick Co. bldg
CUMBERLAND—*Queen City Brick & Tile Co.
FREDERICK—Frederick Brick Works

## MASSACHUSETTS.

SPRINGFIELD—Standard Brick Co.

## MICHIGAN.

DETROIT—Little, C. H. Co., Peninsular B'k bldg
GRAND RAPIDS—Grand Rapids Consolidated Brick & Tiling Co.
SAGINAW—*Michigan Paving Brick Co.
***Saginaw Paving Brick Co.**
Saginaw Sandstone Brick Co.

## MINNESOTA.

MINNEAPOLIS—Minneapolis Paving & Cement
ST. PAUL—St. Paul Brick Co. Brick Co.

## MISSOURI.

KANSAS CITY—Dickey, W. S. Clay Mfg. Co.
K. C. Paving Brick & Tile Co.
ST. JOSEPH—St. Joseph Pressed Brick Co.
ST. LOUIS—Hydraulic Press Brick Co., 705 Laclede-Christy Clay Products Co. Olive
St. Louis Pressed Brick Co., Cass av & Collins

## NEW JERSEY.

MORRISTOWN—Hanover Brick Co.
SOUTH AMBOY—Perrine, H. C. & Son
SOUTH RIVER—Pettit & Co.
TRENTON—Trenton Fire Brick Mfg. Co.
WHIPPANY—Hanover Brick Co.

## NEW YORK.

BUFFALO—Lyth, A. & Sons Co.
CATSKILL—*Catskill Vitrified Brick Co. (See New York City)
CORNING—Brick, Terra Cotta & Tile Co.
JAMESTOWN—Jamestown Shale Paving Brick
JEWETTVILLE—Ellicott Brick Co. Co.
KINGSTON—Frederick Brick Co.
Hutton Co.
MECHANICVILLE—Cary Brick Co.
Champlain Brick Co.
New England Brick Co.

## NEW YORK CITY.

### Boroughs of Manhattan & Bronx.

NEW YORK—*Catskill Vitrified Brick Co., 17 Battery pl
**FLEMING & CO. (Adamantine** Clinker), 253 B'way. (See adv. index, end of book)
**KREISCHER BRICK MFG. CO.,** 119 E 23d. (See adv. index, end of book)

### Borough of Richmond.

KREISCHERVILLE — **KREISCHER** Brick Mfg. Co. (See adv. index, end of book)

**(End of New York City)**

OLEAN—*Sterling Brick Co.
ROCHESTER—Rochester Brick & Tile Mfg. Co.
Rochester German Brick & Tile Co.
SYRACUSE—Merrick, Chas. H.
UTICA—Utica Brick & Tile Co.
WATERTOWN—Watertown Pressed Brick Co.

## NORTH CAROLINA.

ELIZABETH CITY—Elizabeth City Brick Works

## NORTH DAKOTA.

DICKINSON—Dickinson Fire & Pressed Brick Co.
GRAND FORKS—Red River Valley Brick Corp.

## OHIO.

AKRON—Akron Vitrified Clay Mfg. Co.
American Sewer Pipe Co.
Cooper Bros.
ALLIANCE—Auld, John & Sons Co.
ATHENS—Athens Brick Co.
CANTON — *Metropolitan Paving Brick Co. (Daily Capacity, 300,000)
CINCINNATI—Blair, J. M. Brick Co., Builders' & Traders' Ex.
Westwood Brick Co., Union Trust bldg
CLEVELAND—Cleveland Brick & Clay Co., Rockefeller bldg
*Deckman-Duty Brick Co.
Standard Brick Co., 4393 Bradley rd, S W
COLUMBUS—Ferris, Warren B. Brick Co. (The)
CONNEAUT—United Brick Co.
GLOUSTER—*Wassall Brick Co. (Blocks)
LISBON—Excelsior Fire Clay Co.
LOGAN—*Logan Clay Product Co.
LOUISVILLE—Louisville Brick & Tile Co.
MARIETTA—Cisler, Thomas & Son
MASSILLON—*Massillon Stone & Fire Brick Co.
MINERAL CITY—Federal Clay Product Co.
Holden, C. E.
MOGADORE—Granite Clay Co.
NELSONVILLE—Hocking Valley Fire Clay Co.
NEW COMERSTOWN—Novelty Brick & Coal Co.
NILES—Niles Fire Brick Co.
PORTSMOUTH—Carlyle Paving Brick Co.
*Peebles Paving Brick Co.
Portsmouth Paving Brick Co.
SCIOTOVILLE—Scioto Fire Brick Co. ("Union")
SOUTH ZANESVILLE—*South Zanesville Sewer Pipe & Brick Co. ("Bolen's" Brown Granite & "Halwood")
**TORONTO—Toronto Fire Clay Co.**
TRIMBLE—Trimble Brick Mfg. Co.
UHRICHSVILLE—Advance Fireclay Co.
Buckeye Fire Clay Co.
WELLSVILLE—Vulcan Clay & Brick Co.
WICKLIFFE—*Kline. Jno. Brick Co. ("Buckeye"), Capacity, 5,000,000)
WOOSTER—Wooster Shale Brick Works
YOUNGSTOWN—Bessemer Limestone Co.
ZANESVILLE—*Buckeye Brick & Block Co.
***Townsend, T. B. Brick & Contracting Co.**

## OKLAHOMA.

BARTLESVILLE — Bartlesville Vitrified Brick
ENID—Enid Vitrified Brick & Tile Co. Co.
McALESTER—McAlester Brick Co.
MUSKOGEE—Muskogee Vitrified Brick Co.
TULSA—Tulsa Vitrified Brick & Tile Co.

## OREGON.

PORTLAND—Diamond Brick Co.

## PENNSYLVANIA.

CAMERON—Penn Vitrified Brick Co.
CARNEGIE—Rosslyn Brick Co. (Foundation & Sewer)
CLEARFIELD—*Clearfield Clay Working Co.
Clearfield Brick Mfg. Co.
**CONNELLSVILLE—Soisson, Jos. Fire Brick Co.**
DUBOIS—Dubois Clay Mfg. Co.
Dubois & Butler Brick Co.
FALLSTON—Fallston Fire Clay Co.
HAMBURG—Hamburg Vitrified Brick Co.
JOHNSONBURG—*Johnsonburg Vitrified Brick
JOHNSTOWN—Haws, A. J. & Sons Co.
Savage Fire Brick Co.
KITTANNING—Kittanning Brick & Fire Clay
Kittanning Clay Mfg. Co. Co.
KUSHEQUA—Kushequa Brick Co.
LAYTON—Layton Fire Clay Co.
LOCK HAVEN—Queen's Run Fire Brick Co.
OSCEOLA MILLS—Osceola Silica & Fire Brick
PATTON—Patton Clay Mfg. Co. Co.
PAWLING—McAvoy Vitrified Brick Co.
PHILADELPHIA—Clay Product Supply Co., 1332 Walnut
Hamburg Vitrified Brick Co., Land Title
*Mack Mfg. Co., Land Title bldg bldg
PINE GROVE FURNACE—Fuller Brick & Slate Co.
PITTSBURG—Dunbar Fire Brick Co., Arrott Gloninger & Co. bldg
*Mack Mfg. Co., Arrott bldg
Mayer, C. P. Brick Co.
Penna. Clay Co., 421 Wood
Pittsburg-Buffalo Co., Frick bldg
*Pittsburg & Malvern Clay Co. Works, Malvern, O. Office, Pittsburg, Pa.
Savage Fire Brick Co., Park bldg
*Standard Fire Brick Co., Empire bldg
West Virginia Fire Clay Mfg. Co.
PUNXSUTAWNEY—Nordstrom, Mrs. M. J.
READING—Montello Brick Works
Reading Shale Brick Co.
ROCHESTER—Miller Brick Co.
SCRANTON—Federal Granite Brick Co.
SHARON—Sharon Fire Brick Co.
SHAWMUT—Shawmut Brick Works
WILLIAMSPORT—*Guise Brick & Stone Co.
WINDBER—Kelley, Wm. P. Brick Co.

## SOUTH CAROLINA.

KILLIAN—Killian Fire Brick Co.

## TENNESSEE.

CHATTANOOGA—Southern Clay Mfg. Co.
KNOXVILLE—Knoxville Brick Co.
**South Knoxville Brick Co.**

## TEXAS.

ATHENS—Athens Fire Brick Co.
DALLAS—Harry, J. M. Brick Co.
FORT WORTH—Texas & Pacific Coal Co.
HOUSTON—Butler, M. ("Thurber")
SAN ANTONIO—Mackey Brick & Tile Co.
THURBER—Texas & Pacific Coal Co.

## VIRGINIA.

CHILHOWIE—Southern Clay Mfg. Co.
ROANOKE—Adams, Payne & Gleaves (Inc.)

## WASHINGTON.

LITTLE FALLS—Little Falls Fire Clay Co.
SEATTLE—Denny-Renton Clay & Coal Co.
Harper-Hill Brick Co.
Pontiac Brick & Tile Co.
Seattle Brick & Tile Co.
Steele & Steele Brick & Tile Co.
SPOKANE—*Washington Brick, Lime & Sewer Pipe Co.

## WEST VIRGINIA.

GRAFTON—*Thornton Fire Brick Co.
HURRICANE—McCallister, W. H.
NEW CUMBERLAND—Acme Fire Clay Works
Claymont Brick Works
*Mack Mfg. Co.
WHEELING—Suburban Brick Co.

## WISCONSIN.

MANITOWOC—Manitowoc Clay Product Co.
MILWAUKEE—Burnham Bros., 525 Howell av
Standard Brick Co., 496 Clement av

## 1042—Brick (Welding Furnace)

**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1043— Brick (White)

Chestnut Ridge White Brick Co., Kunkletown, Pa., & 121 W 42d, New York
Dickey, W. S. Clay Mfg. Co. (Standard Only), Kansas City, Mo.
Ferris, Warren B. Brick Co., Columbus, O.
**Fiske & Company (Inc.) (Also Ornamental), 25 Arch, Boston, Mass., & Flat Iron bldg, New York**
Gladding, McBean & Co. (Also Ornamental), Crocker bldg, San Francisco, Cal. Works, Lincoln, Col.
Golden Pressed & Fire Brick Co. (Also Ornamental), Denver, Col.
**KREISCHER BRICK MFG. CO., 119** E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
Los Angeles Pressed Brick Co. (Also Ornamental), Los Angeles, Cal.
Mount Holly Brick & Clay Co. (Vitrified White & Light Colored), Harrisburg, Pa.
Powhatan Clay Mfg. Co. (Cream White in Standard Roman, Norman & Ornamental Shapes), Richmond, Va., & 1123 B'way, New York; Works: Clayville, Va.

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**SAYRE & FISHER CO. (Also Ornamental)**, 261 B'way, New York. Works: Sayreville, N. J. (See adv. Front Inside Cover)

## 1043a—Brick & Cement Waterproofings

**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## 1044—Brick & Stone Preservative

American Wood Preserving Co. ("Antiseptine"), 1351 N Branch, Chicago, Ill.
**CABOT, SAMUEL ("Cabot's"), 141** Milk, Boston, Mass. (See adv. index & branch offices, end of book)
Parker, Preston & Co. (Inc.), Norwich, Conn.

## Bricklayers

**(See Builders, Contracting, With the Word Brick Following Their Name)**

## Bridge Builders (Steel)

(See firms designated with a Star (*) under Steel Structural Work)

## 1045— Bridge Caissons

(See also Caissons, Sheet Iron)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)

## 1046— Bridge Foundations

(See also Caisson Foundations)
Blome, R. S. Co., Unity bldg, Chicago, Ill.
Carey Construction Co. (Concrete), Cleveland, Ohio
Cowing Engineering Co., Crosby st & Nickle Plate R R. Collinswood, Cleveland, O.
**Cranford Paving Co., Home Life bldg, Wash'n,** D. C.
Cullen-Friestedt Co., Tribune bldg, Chicago, Ill.
Fath, C. H. & Son Construction Co., Cleveland, Ohio
Fath Construction Co., Cleveland, O.
Foundation Co. (Engineers & Contractors, Pneumatic, etc.), 115 B'way, New York
**Godwin Construction Co., 30 Church, New York**
Kahmann & McMurry, Kansas City, Mo.
McMullen, Arthur & Co., 149 B'way, New York
Masters & Mullen Construction Co., Rose bldg, Cleveland, O.
Neuchatel Asphalte Co. (Ltd.) (Concrete), 265 B'way, New York
O'Rourke Engineering Construction Co., 345 5th av, New York
**RAYMOND CONCRETE PILE CO., 140** Cedar, New York. (See adv. index & branch offices, end of book)
Rodgers, J. C., 121 W 125th, New York
Simplex Foundation Co., 3400 Disston, Phila., Pa.
Sutter, Jno. H., 108 La Salle, Chicago, Ill.
Syracuse Bridge Co. (Concrete, etc.), Syracuse, N. Y.

## 1047— Bridge Railings

Albree, Chester B. Iron Works, N S Pittsburg, Pa.
**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
Atlanta Wire & Iron Works Co., Atlanta, Ga.
Bayley, Wm. Co., Springfield, O.
Belmont Iron Works, 22d & Wash'n av, Philadelphia, Pa.
Climax Road Machine Co., Marathon, N. Y.
Clopp, Geo. R., 3717 Filbert, Philadelphia, Pa.
Crown Iron Works Co., Minneapolis, Minn.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Hallman, Oliver, Mont Clare, Pa.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Roanoke Iron Works, Roanoke, Va.
Toledo Bridge & Crane Co., Toledo, O.
Vilsack, Martin Co. (Ltd.), Pittsburg, Pa.

## Bridge Timbers (Creosoted)

(See Creosoting Works)

## 1047a—Bridge Wreckers (Removal of Old Structural Steel Work)

**LUCIUS ENGINEERING CO., Hartje** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 1048— Bridges (Bascule)

American Bridge Co. (Rolling Lift), Pittsburg, Pa., & 30 Church, New York.
Canton Bridge Co., Canton, O.
Jackson, Geo. W. (Inc.) ("Borg"), 756 W Jackson boul, Chicago, Ill.
Kenwood Bridge Co., First Nat'l Bank bldg, Chicago, Ill.
McClintic-Marshall Const. Co., Pittsburg, Pa.
Massillon Bridge & Structural Co., Massillon, Ohio.
Penn Bridge Co., Beaver Falls, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Scherzer Rolling Lift Bridge Co. (Rolling Lift), 1616 Monadnock blk, Chicago, Ill.
Strauss Bascule Bridge Co., Fort Dearborn bldg, Chicago, Ill.
**STROBEL STEEL CONSTRUCTION** Co. ("Rall" Bascule), Monadnock blk, Chicago, Ill.
Syracuse Bridge Co., Syracuse, N. Y.
Toledo Bridge & Crane Co., Toledo, O.

## 1049—Bridges (Coal & Ore Handling)

(See also Cold Storage Plant Construction)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Toledo Bridge & Crane Co., Toledo, O.

## 1050—Bridges (Designers of Concrete Reinforced)

**LUCIUS ENGINEERING CO., Hartje** bldg, Pittsburg, Pa. (See adv. index, end of book)
**OSBORN ENGINEERING CO., Osborn** bldg., Cleveland, O., & Land Title bldg., Phila., Pa. (See adv. index, end of book)

## 1050a—Bridges (Rolling Lift)

(See Bridges, Bascule)


NOTICE.

This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

S. E. HENDRICKS CO.,
74 LAFAYETTE STREET,
NEW YORK, N. Y.


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ELEVATOR FRONTS---EMIGRANTS INDUSTRIAL SAVINGS INSTITUTION, NEW YORK

RAYMOND ALMIRALL, Architect

EXECUTED BY

# THE GORHAM CO. ARCHITECTURAL BRONZE

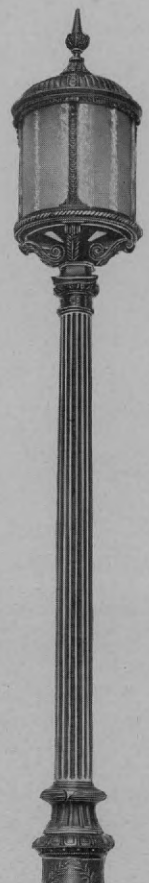
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ST. LOUIS
SAN FRANCISCO
PITTSBURGH

GORHAM BUILDING
FIFTH AVENUE AT THIRTY-SIXTH ST.
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MAIN OFFICES
FOUNDRY AND WORKS
PROVIDENCE, R. I.

(SEE PRECEDING PAGE)

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(SEE NEXT PAGE)

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## Bridges (Steel, Designers & Erectors)

(See Firms in Steel Structural Work, marked with a (*) Star)

## 1051—Bridges (Steel Girder)

(See also Firms in Steel Structural Work, indicated by a (*) Star)

American Bridge Co., 30 Church, New York
Good Roads Machinery Co. (With Gas Pipe Railings), Kennet Square, Pa., & 114 Liberty, New York
**KRATZER, W. N. & CO., 3218 Smallman**, Pittsburg, Pa. (See adv. index, end of book)
**LUCIUS ENGINEERING CO., Hartje** bldg, Pittsburg, Pa. (See adv. index, end of book)
Massillon Bridge & Structural Co., Massillon.
Toledo Bridge & Crane Co., Toledo, O. Ohio
**WORDEN-ALLEN CO., P. O. Box** 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## Brimstone

(See Sulphur & Brimstone)

## 1052— Bristles

**Armour Curled Hair Works**, 31st & Benson, Chicago, Ill.
Bieger, Adolph, St. Louis, Mo.
Cone, Fred. H. (Importer), 253 Pearl, New York
Conheim, Herman, 70 Pine, New York
Cudahy Packing Co., Omaha, Neb.
Huesmann & Co., 83 Maiden la, New York
Levy, E. & H. (Importers), 280 Pearl, New York
Von Stade, F. W., 73 Beekman, New York
Wilkens, Wm. Co., Baltimore, Md.
Woll, Peter & Sons Mfg. Co., 170 Berks, Phila., Pa.
Zeidman, M. Hair Cloth Co., 3229 S Ashland av, Chicago, Ill.

## 1053— Britannia Ware Mfrs.

International Silver Co., Meriden, Conn.
Manning, Bowman & Co., Meriden, Conn.
Pia, Peter F., 129 White, New York
Prisk, Wm. M. & Sons Mfg. Co., Yalesville, Conn.
Woodman-Cook Co., Portland, Me.

## 1054— Broilers

Barbee Wire & Iron Works (Oyster), 44 Dearborn, Chicago, Ill.
Barnard, W. H. & Co., Norfolk, Va.
Bramhall-Deane Co., 261 W 36th, New York
Dangler Stove & Mfg. Co., Cleveland, O.
**DARBY, EDW. & SONS CO. (Wire)**, 239 Arch, Phila., Pa. (See adv. index, end of book)
**ESTEY WIRE WORKS CO. (Wire)**, 59 Fulton, New York. (See adv. index, end of book)
Hall & Carpenter (Sheet Steel), Phila., Pa.
**Ideal Mfg. Co., Detroit, Mich.**
**Kilbourne Mfg. Co., Troy, N. Y.**
**MEYERS, F. J. MFG. CO. (Wire)**, Hamilton, O. (See adv. index, end of book)
**Miller, Wm. Range & Furnace Co. (Charcoal, Coke, Sheet Steel), Cincinnati, O.**
**National Mfg. Co. (Wire), Worcester, Mass.**
Parker Wire Goods Co. (Wire), Worcester, Mass.
Republic Metalware Co., Buffalo, N. Y.
**Ross Broiler Co., St. Joseph, Mo.**
**Schneider & Trenkamp (Am. Stove Co.), Cleveland, O.**
Stoutenborough, X., 277 Pearl, New York
**Watkins, J. Y. & Son, 16 Catherine, New York**
**Western Wire Goods Co., Buffalo, N. Y.**
**Wire Goods Co. (Wire), Worcester, Mass.**
Wire Hardware Co. (Wire), 1824 Besly court, Chicago, Ill.
**Woods, Sherwood & Co., Lowell, Mass.**

## 1055— Broilers (Electric)

American Electrical Heater Co., Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Prometheus Electric Co., 236 E 43d, New York
Simplex Electric Heating Co., Boston, Mass.

## Broilers (Gas)

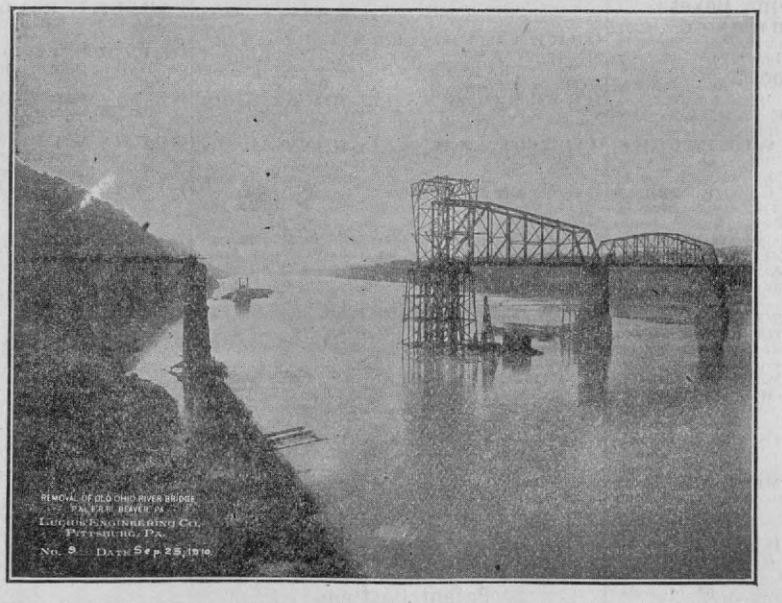
(See Stoves, Heaters & Ranges, Gas)

## 1056—Bronze (Architectural, Etc.)

Acme Fancy Wire Works, Detroit, Mich.
American Art Bronze Foundry Co., 4921 W Lake, Chicago, Ill.
American Ornamental Iron & Bronze Co., Minneapolis, Minn.
**ART BRASS & WIRE WORKS, Detroit, Mich.** (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Bureau Bros., 21st c Allegheny av, Phila., Pa.
Burkhardt, John, 614 W 55th, New York
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
Campbell, Harry E. Co., Albany, N. Y.
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Cleveland Art Metal Co., Cleveland, O.
De Rome, Louis, San Francisco, Cal.
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton**, New York. (See adv. index, end of book)
Federal Brass & Bronze Co., Astoria, Borough of Queens, N. Y.
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Gaumer, John L. Co., 22d & Wood, Phila., Pa.
Graf, Frank H., 322 7th av, New York
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.


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**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Janusch Mfg. Co., 496 E 134th, New York
Jones, Jas. Co., Los Angeles, Cal.
Klaber, S. & Co., 126 W 34th, New York
Lasar Mfg. Co., St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Midland Metal Co., 21st S Jefferson, Phila., Pa.
Mills, Wm. J. (Doors, etc.), 639 Kent av, Brooklyn, N. Y.
Mott, J. L. Iron Works, 118 5th av, New York.
**PITT, WM. R. COMPOSITE IRON** Works, 138 W 24th, New York. (See adv. index, end of book)
Richey, Browne & Ronald, Maspeth, Borough of Queens, N. Y. City.
Roman Bronze Works ("Cire-Perdue" Process), 275 Greene, Brooklyn, N. Y.
Rudger-Merle Co., San Francisco, Cal.
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, ft. of Pine, Jersey City, N. J.** (See adv. index, end of book)
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Sterling Bronze Co., 107 W 25th, New York
Tiffany Studios, 347 Madison av, New York
Tuttle & Bailey Mfg. Co., 83 Beekman, New York
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
Union Bronze Co., Rutherford, N. J.
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)
Williams, John, 556 W 27th, New York
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 1056a—Bronze (Corinthian, for Locomotives & Driving Boxes)

**LAWRENCEVILLE BRONZE CO.,** 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)

## 1057— Bronze Doors

Acme Fancy Wire Works, Detroit, Mich.
**ART BRASS & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Bureau Bros., 21st c Allegheny av, Phila., Pa.
Burkhardt, John, 614 W 55th, New York
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
**CHICAGO ORNAMENTAL IRON CO.** (Architectural, etc.), 37th c Stewart av, Chicago, Ill. (See adv. index, end of book)
De Rome, Louis, San Francisco, Cal.
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**GORHAM CO. ARCH'L BRONZE,** (Cast & Plate), 5th av & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Janusch Mfg. Co., 496 E 134th, New York
Jones, Jas. Co., Los Angeles, Cal.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Mills, W. J., 639 Kent av, Brooklyn, N. Y.
Mott, J. L. Iron Works, 118 5th av, New York
Richey, Brown & Donald, Maspeth, Borough of Queens, New York City
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, ft. of Pine, Jersey City, N. J.** (See adv. index, end of book)
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
Tuttle & Bailey Mfg. Co., 83 Beekman, New York
**TYLER, W. S. CO., Cleveland. O.** (See adv. index & branch offices, end of book)
Williams, John, 556 W 27th, New York
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, Milwaukee, Wis.

## 1058— Bronze Founders

(See also Castings, Bronze)

American Art Bronze Foundry Co., 4921 W Lake, Chicago, Ill.
Bay State Brass Foundry, Boston, Mass.
Bureau Bros., 21st c Allegheny av, Phila., Pa.
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
De Rome, Louis, San Francisco, Cal.
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Janusch Mfg. Co., 496 E 134th, New York
Johnson Service Co. (Architectural), Milwaukee, Wis.
Klaber, S. & Co., 126 W 34th, New York
McGann, T. F. & Sons Co., Boston, Mass.
Manhattan Brass Co., 338 E 28th, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Mills, Wm. J., 639 Kent av, Brooklyn, N. Y.
New Brunswick Iron Works, 9 Water, New Brunswick, N. J.
Nordyke & Marmon Co., Indianapolis, Ind.
Roessing Bronze Co., Etna, Pa.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York

## 1058a—Bronze ("Gorham" Special Patent Castings)

**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)

## Bronze Lamps

(See Lamps, Artistic Bronze & Wrought Iron)

## 1058b—Bronze ("L. B." Malleable)

**LAWRENCEVILLE BRONZE CO. (61** M. Strength to Square Inch), 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)

## 1059—Bronze Letters for Building Fronts

(See also Bronze Tablets)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Also Iron),** 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Sommerville Iron & Bronze Co., Pittsburg, Pa.
Tiffany Studios, 347 Madison av, New York

## 1060—Bronze (Manganese)

(See also Castings, Manganese Bronze)

Taunton-New Bedford Copper Co., New Bedford, Mass.

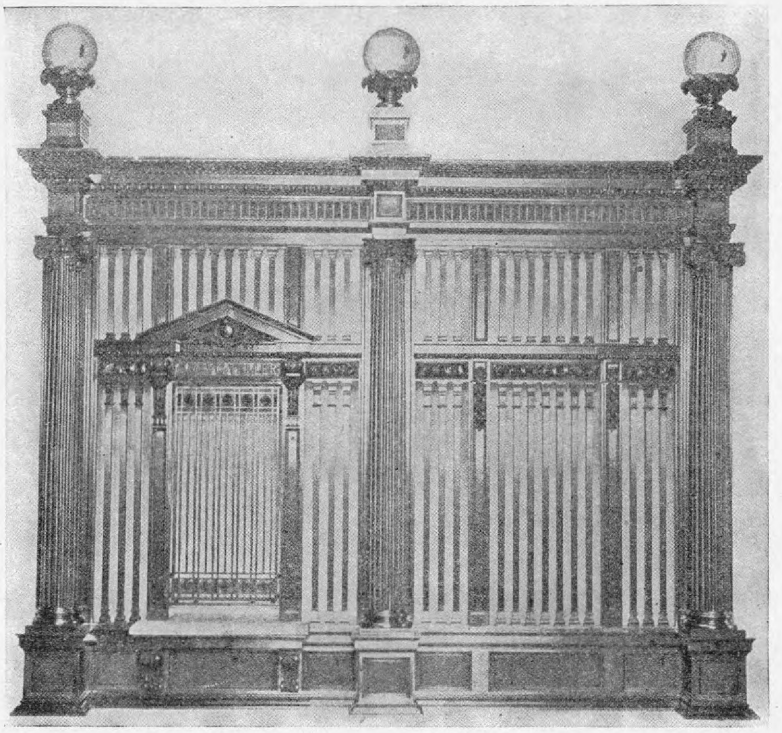
## 1061—Bronze Monuments & Statuary

Bureau Bros., 21st c Allegheny av, Phila., Pa.
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
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**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Roman Bronze Works ("Cire-Perdue" Process), 275 Greene, Brooklyn, N. Y.
Tiffany Studios, 347 Madison av, New York

## 1062— Bronze Powders

American Bronze Powder Mfg. Co., 45 Warren, New York. Works: Verona, N. J.
Arnstein, Eugene (Inc.), 4611 Wentworth av,
Ault & Wiborg Co., Cincinnati, O. Chicago, Ill.
Barrett, M. L. & Co., 219 Lake, Chicago, Ill.
Baer Bros., 25 W Houston, New York
Benda, George, 90 West, New York
**BINSWANGER, B. & CO., 115 N 4th,** Phila., Pa.
Bronze Powder Works Co., 332 E 50th, New York, & Elizabeth, N. J.
Chicago Bronze Mfg. Co., 134 Lake, Chicago, Ill.
Cullen, F. C. & Co. (Gold, Copper & Aluminum), 164 Dearborn, Chicago, Ill.
Drakenfield, B. F. & Co. ("Globe"), 27 Park pl, New York
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Philadelphia, Pa. (See adv. index, end of book)
Fuchs & Lang Mfg. Co., 29 Warren, New York

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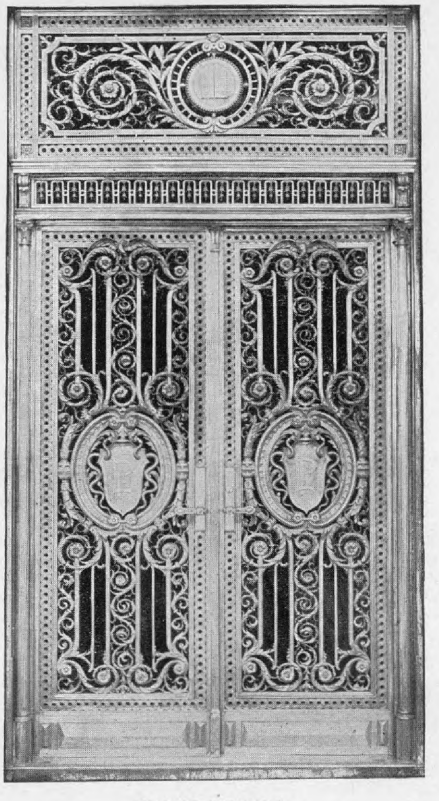
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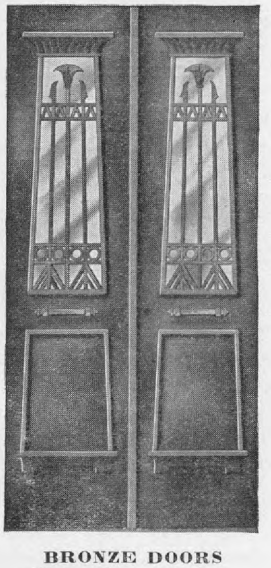
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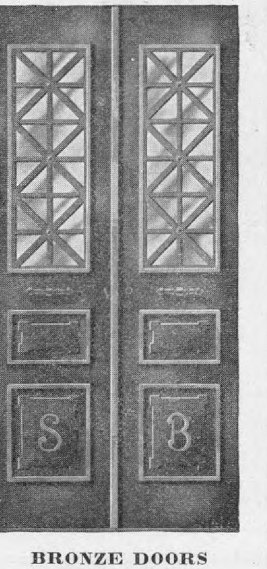
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Gerstendorfer Bros., 231 E 42d, New York
Hommel, O. Co., Pittsburg, Pa.
Horn, A. C. Co., 8 Burling slip, New York
Illinois Bronze Powder Co., 171 Randolph, Chicago, Ill.
Kemp, W. H. Co., 165 Spring, New York
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, Johnt & Co., 322 Race, Phila., Pa.
Morrill, Geo. H. Co., 49 Rose, New York
Pomeroy & Fischer, 30 Frankfort, New York
Riessner, T., Gold & Ann, New York
Rosenbush & Solomon, 719 W Washington, Chicago, Ill.
**Schlegel, Oscar Mfg. Co.** (Aluminum, Gold, Bronze & Liquid), 111 E 12th, New York
Wheeler, Asahel Co., 54 High, Boston, Mass.

## Bronze Railings

(See Bronze, Architectural)

## 1063— Bronze Sheet

Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Michigan Copper & Brass Co., Detroit, Mich.

## 1064—Bronze Tablets, Etc.

Acme Fancy Wire Works, Detroit, Mich.
**ART BRASS & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO. (Also Iron),** 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buffalo Wire Works Co., Buffalo, N. Y.
Bureau Bros., 21st c Allegheny av, Phila., Pa.
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
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Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Fiske, J. W. Iron Works, 30 Park pl, New York
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Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Janusch Mfg. Co., 496 E 134th, New Yortk
Johnson Service Co., Milwaukee, Wis.
**JONES, TREVOR F. & CO., 374 W** B'way, New York. (See adv. index, end of book)
Lobel-Andrews Co., 531 W 55th, New York
McCafferty, J. H. Co., 436 Harrison av, Boston, Mass.
Matthews, Jas. A. & Co., Pittsburg, Pa.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Mills, Wm. J., 639 Kent av, Brooklyn, N. Y.
Mott, J. L. Iron Works, 118 5th av, New York
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
St. Louis Brass Mfg. Co., St. Louis, Mo.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
Shreve, Crump & Low Co., Boston, Mass.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, Jersey** City, N. J. (See adv. index, end of book)
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Sterling Bronze Co., 107 W 25th, New York
Tiffany Studios, 347 Madison av, New York
Turner Brass Works, Sycamore, Ill
Tuttle & Bailey Mfg. Co., 83 Beekman, New York
**TYLER, W. S. CO., Cleveland, Ohio,** & 11 B'way, New York. (See adv. index & branch offices, end of book)
Union Bronze Co., Rutherford, N. J.
United Ornamental Iron Co., Security bldg, Chicago, Ill.
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)
Wells Architectural Iron Co., 219-221 E 144th, New York
Williams, Jno., 556 W 27th, New York
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1065—Bronze (Tobin Metal)

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
**HUNGERFORD, U. T. BRASS & COP**per Co. (Plates, Circles & Rods), 497 Pearl, New York
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

## 1066— Bronze (White)

New Jersey Zinc Co., 55 Wall, New York

## 1067— Bronzing Liquids

Acme White Lead & Color Works, Detroit, Mich.
Bronze Powder Works Co., 332 E 50th, New York
Detroit Stove Polish Co., Detroit, Mich.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa., (See adv. index, end of book)
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
Hommel, O. Co., Pittsburg, Pa.
Schlegel, Oscar Mfg. Co., 111 E 12th, New York
Sherwin-Williams Co., Cleveland, O.

## 1068— Brooms

**Amarillo Broom Co., Amarillo, Tex.**
American Broom & Brush Co. (Rattan, Broom Corn), Amsterdam, N. Y.
Amsterdam Broom Co. (Corn), Amsterdam, N. Y.
Antiseptic Broom Co., Savannah, Ga.
Atlantic Broom Co., Baltimore, Md.
Atlanta Woodenware Co., Atlanta, Ga.
Bookhop, F. H. (Floor, Sink, Whisk), 115 Warren, New York
Boyer Broom Co., Galesburg, Ill.
Brown, H. S. & Co., Bridgeport, Conn.
Brown, N. A. & Co., Corfu, N. Y.
Browne, F. W. (Wire), Farmington, N. H.
Caumisar, T. C., Louisville, Ky.
Central Broom Co., Jefferson City, Mo.
Charleston Excelsior Mattress & Broom Works, Charleston, S. C.
Chicago Broom Mfg. Co., 354 Dearborn, Chicago, Ill.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Colonial Brush & Mfg. Co., 348 Florida, Milwaukee, Wis.
Congleton, J., New Philadelphia, O.
Conrad, John & Co., Somerville, Mass.
Consolidated Car Fender Co. (Rotary Snow), Providence, R. I.
Cremering Bros., Cincinnati, O.
Dallas Broom Factory, Dallas, Tex.
Dean, O. M., Worcester, Mass.
Dearborn Duster Co. (Whisk, Floor), Chicago, Ill.
De Roo, P., Cincinnati, O.
Deshler Broom Factory, Deshler, Neb.
Des Moines Broom Co., Des Moines, Ia.
Detering, H. E., Houston, Tex.
Dobberton, A. C., Rochester, N. Y.
Eaton, J. C. & Co., Lyndonville, Vt.
Edison Mfg. Co., 257 Atlantic av, Boston, Mass.
Englehardt, E., Baltimore, Md.
Erie Preserving Co., North Collins, N. Y.
Evans & Liddle, Lockport, N. Y.
Evansville Broom Works, Evansville, Ind.
Fairchild, L. C., Greene, N. Y.
Feldman, L. & Co., 220 Front, San Francisco, Cal.
Frankfort Broom Co., Frankfort, Ky.
Fulton, H. K., Wilmington, Del.
Gardner Broom Co., Amsterdam, N. Y.
Garrison Broom Factory, Garrison, Tex.
Gerhardt, C. (Brewers', Steel Wire), 591 Hudson, N. Y
Goellers, M. G. Sons (House, Stable, Warehouse, Ceiling, Whisk), Circleville, O.
Haisler Bros. Co. (Stable), 234 S Water, Chicago, Ill.
Halpin, Nicholas F., Deerfield, N. Y.
Hamburg Broom Works, Hamburg, Pa.
Harrah & Stewart Mfg. Co. (Whisk), Des Moines, Ia.
Hatch, E. W. & Son, Union City, Pa.
Hemingway Bros., Stockton, Cal.
Hodges Broom Works, Atlanta, Ga.
Howard, E. D. Broom Co. (Corn, etc.), Columbus, O.
Humphrey, T. N., Memphis, Tenn.
Hunter Brush Mfg. Co. (Home, Factory, etc.), Blanchester, O.
Illinois Broom Co., 172 Wash'n, Chicago, Ill.
Imperial Mfg. & Trading Co., 253 B'way, New York
Indianapolis Brush & Broom Mfg. Co. (Corn, Factory, Foundry, Mill, Railroad), Indianapolis, Ind.
Jacobson-Peterson Co., South Bend, Ind.
Kelly, M. A., Leavenworth, Kas.
Kelly & Leonard, Ogdensburg, N. Y.
Keystone Whisk & Broom Co. (Whisk), Milford, N. J.
Kuh Bros., Sioux Falls, S. D.
Lay, Jos. & Co. (Street, Stable, Push), Ridgeville, Ind.
Lee Broom & Duster Co., Davenport, Ia., & Lincoln, Neb.
Luther Bros. Co. (Brewers' & Street), Milwaukee, Wis.
Manzelmann, Chas., Detroit, Mich.
Meese, G. & Co., Spokane, Wash.
Menominee Broom Mfg. Co. (House, Warehouse), Menominee, Mich.
Merchants Broom & Mop Co., Memphis, Tenn.
Merkle-Wiley Broom Co. (Broom Corn), Paris, Ill.
Middlebrook, W. M., Atlanta, Ga.
Miller, Aug. & Son, La Crosse, Wis.
Miller, B. A. Co., Dubuque, Ia.
Milwaukee Dustless Brush Co., Milwaukee, Wis.
Mohawk Valley Broom Co., Fonda, N. Y.
Montgomery Broom Mfg. Co., Grove City, Pa.
Muckenfuss Mfg. Co., Spartansburg, S. C.
Mulholland, Wm., 80 Lafayette, New York
New Bremen Broom Co., New Bremen, O.
Nies, S. E. & Co., Reading, Pa.
Neitzel Bros. & Theilmann, Spokane, Wash.
Noble, G. L. Sr., Thompsonville, Conn.
Noxon Broom Co., Ltd., Avoca, N. Y.
Ohio Broom & Supply Co., Toledo, O.
**OSBORN MFG. CO. (Steel, Snow,** Warehouse, Corn, Wire), 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)
Palmer, Jesse B., Baldwinsville, N. Y.
Partin, M., Mobile, Ala.
Phoenix Brush & Mfg. Co. (Steel Wire, Street Sweeping), 229 Lake, Chicago, Ill.
Pilley Packing & Flue Brush Mfg. Co. (Steel Wire), St. Louis, Mo.
Pioneer Broom Co. (Corn), Amsterdam, N. Y.
Pirrung Mfg. Co., 4436 Perry, Chicago, Ill.
Post, J. H., Waterloo, Ia.
Pounder, G. H., Ft. Atkinson, Wis.
Ripple, S. A. & Bros., Baltimore, Md.
Roseboom, J. A. & Co., Mattoon, Ill.
Round Rock Broom Co., Round Rock, Tex.
Ruppersburg, Wm., San Antonio, Tex.
Sawyer, Wm. N., Bangor, Me.
Schwartz, Geo. & Son, Savannah, Ga.
Scoville, M. G. Sons Co., Ogden, Utah
Sebastian Bros., Odin, Ill.
Shanaman, W. B., Reading, Pa.
Shanaman Bros., Reading, Pa.
Smith, J. D. Foundry Supply Co. (Steel, Wire, Fibre), Cleveland, O.
Southern Broom Mfg. Co., Ft. Smith, Ark.
Southwestern Broom Mfg. Co., Evansville, Ind.
Stewart, A. F., St. Paul, Minn.
Stoloff, H., 240 Race, Philadelphia, Pa.
Thompson, H., Concord, N. H.
Thompson, H. E., Kansas City, Mo.
Thompson, J. S. & Co., Waco, Tex.
Tighe, C. H., Avon, N. Y.
Tinker, Geo. F., New London, Conn.
Tottle, W. A. & Co., Baltimore, Md.
Twitchell-Champlin Co., Portland, Me.
United States Broom & Brush Co. (Brooms & Whisks), Clybourn av & Clybourn pl, Chicago, Ill.
Urbana Broom Co. (Whisk), Urbana, O.
Van Laak Mfg. Co., 3178 17th, San Francisco, Cal.
Ward, J. B. & Sons, Paterson, N. J.
Warth, John F. & Bro., 602 De Graw, Brooklyn, N. Y.
Washington Broom & Woodenware Co., Seattle, Wash.
Western Broom Co., St. Louis, Mo.
Wetherbee, G. C. & Co., Detroit, Mich.
Weymer, A. F. Co. (Whisk), Syracuse, N. Y.
White, Valentine Co., Urbana, O.
Whiting, J. L.-Adams, J. J. Co., Boston, Mass.
Whitmyer, H., Schnectady, N. Y.
Wichita Falls Broom Mfg. Co., Wichita Falls, Tex.
Windsor Mfg. Co., Windsor, Mo.

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Wittemeier's, F. Sons, Fort Hunter, N. Y.
Zan Bros. & Co., 316 Davis, San Francisco, Cal., & Portland, Ore.
Zelnicker, Walter A. Supply Co. (Heavy Sweeping), St. Louis, Mo.

## 1069– Brooms (Bamboo)

Lay, Jos. Co., Ridgeville, Ind.
**OSBORN MFG. CO. (Push, Scrubbing,** etc.), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

## 1070–Brooms (Bass Fibre)

Lay, Jos. Co., Ridgeville, Ind.

## 1071– Brooms (Foundry)

**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1072–Brooms (Metal Bound Mill)

Bunck, J. J. & Co., 155 Chambers, New York
Cincinnati Mfg. Co. (Wire), 1243 W 6th, Cincinnati, O.
Hamburg Broom Works, Hamburg, Pa.
Hendee, C. Cass, Milwaukee, Wis.
Indianapolis Brush & Broom Co., Indianapolis, Ind.
Lay, Jos. Co., Ridgeville, Ind.
Merkle-Wiley Broom Co., Paris, Ill.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Pilley Packing & Flue Brush Mfg. Co., St. Louis, Mo.
Thompson, Horace, Concord, N. H.

## 1073– Brooms (Push)

(See also Brooms, Street Sweeping)
Browne, F. W. (Wire), Farmington, N. H.
Bunck, Jno. J. & Co., 155 Chambers, New York
Cincinnati Mfg. Co. (Wire), 1243 W 6th, Cincinnati, O.
**DARBY, EDW. & SONS CO. (Wire),** 239 Arch, Phila., Pa. (See adv. index, end of book)
Haisler Bros. Co., 288 S Water, Chicago, Ill.
Hamburg Broom Works, Hamburg, Pa.
Hendee, C. Cass (Wire), Milwaukee, Wis.
Holcomb, J. I. Mfg. Co., Indianapolis, Ind.
Hvass, Chas. & Co., 509 E 18th, New York
Indianapolis Brush & Broom Co., Indianapolis, Ind.
Lay, Jos. Co. (Bamboo, Rattan, Wire, etc.), Ridgeville, Ind.
Manhattan Hickory Broom Co., 621 E 18th, New York
Merkle-Wiley Broom Co., Paris, Ill.
Mulholland, Wm., 80 Lafayette, New York
**OSBORN MFG. CO. (Fibre), 5401** Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Thompson, Horace, Concord, N. H.
Worth, Jno. F. & Bro., 602 Degraw, Brooklyn, N. Y.

## 1074– Brooms (Rattan)

Colonial Brush & Mfg. Co., 348 Florida, Milwaukee, Wis.
Indianapolis Brush & Broom Mfg. Co. ("Capital"), Indianapolis, Ind.
Lay, Jos. Co., Ridgeville, Ind.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Zelnicker, Walter A. Supply Co. (Also Bamboo & Tampico Fibre), 408 N 4th, St. Louis, Mo.

## 1075–Brooms (Steel Wire)

Lay, Jos. Co. (Push, etc.), Ridgeville, Ind.

## 1076–Brooms (Street & Stable)

Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
**DARBY, EDW. & SONS CO. (Steel** Wire), 239 Arch, Phila., Pa. (See adv. index, end of book)
Hunter Brush Mfg. Co. (Cane, Wire, Reed or Fibre), Blanchester, O.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1077–Brooms (Street Sweeping)

Colonial Brush & Mfg. Co., Milwaukee, Wis.
Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
Harrah & Stewart Mfg. Co., Des Moines, Ia.
Holcomb, J. I. Mfg. Co., Indianapolis, Ind.
Hvass & Co., 509 E 18th, New York
Indianapolis Brush & Broom Co., Indianapolis, Ind.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Pirrung Mfg. Co. (Wire), 4436 Perry, Chicago, Ill.
Warth, Jno. F. & Bro., 602 Degraw, Brooklyn, N. Y.

## 1078–Brooms & Brushes (Track)

Colonial Brush & Mfg. Co., Milwaukee, Wis.
Indianapolis Brush & Broom Co., Indianapolis, Ind.
Lay, Jos. Co., Ridgeville, Ind.
Mulholland, William, 80 Lafayette, New York
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Pilley Packing & Flue Brush Mfg. Co. (Steel Wire), St. Louis, Mo.

## 1078a–Brown Prints & Papers

**SOLTMANN, E. G.**
(Also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

## 1079– Brushes (Air)

Air Brush Mfg. Co., Rockford, Ill.
Dietzgen, Eugene & Co., 181 Monroe, Chicago, Ill.
Empire Cream Separator Co., Bloomfield, N. J.
Paasche, Jens A., 606 Blue Island av, Chicago, Ill.
Thayer & Chandler (Fountain), 737 W Jackson blvd, Chicago, Ill.

## 1080–Brushes (Barrel & Keg Machine Scrubbing)

Lay, Jos. Co. (Carved), Ridgeville, Ind.

## Brushes (Boiler Flue)

(See Cleaners, Brushes, Boiler Flue & Tube)

## 1081–Brushes (Bran & Shorts)

**ALLIS-CHALMERS CO., Milwaukee.** Wis. (See adv. index & branch offices, end of book)

## 1082– Brushes (Bottle)

Bradley & Smith, 251 Pearl, New York
Hanlon & Goodman, 270 Pearl, New York
Hertzberg, H. (Wire Twisted), 91 Allen, New York
Hendee, C. Cass (Wire), Milwaukee, Wis.
Leiner, M. Co., 1250 Brook av, New York

## 1083–Brushes (Butchers' Block)

**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)

## 1084– Brushes (Carbon)

American Brush & Carbon Co., St. Louis, Mo.
Baylis Co., Bloomfield, N. J.
Crocker-Wheeler Co., Ampere, N. J.
Eastern Carbon Works, Jersey City, N. J.
French Battery & Carbon Co. ("Fabius Henrion," Imported), Madison, Wis.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hart & Co. ("Langleben"), Fostoria, O.
Jeandron, W. J. ("Le Carbone"), 172 Fulton, New York
Le Valley Vitae Carbon Brush Co. (Self Lubricating), 4123 Park av, New York
Morgan Crucible Co. ("Morganite," "Battersea"), 114 Liberty, New York
National Carbon Co. ("Laclede," "Columbia," "Partridge"), Cleveland, O.
Speer Carbon Co. (Self Lubricating), St. Marys, Pa.
United States Carbon Co. ("Copley Senior"), 212 E 37th, New York

## 1086– Brushes (Chimney)

Browne, F. W. (Wire), Farmington, N. H.

## Brushes (Copper)

(See Brushes, Sheet Metal)

## 1086a–Brushes (Dustless Floor)

Milwaukee Dustless Brush Co., Milwaukee, Wis.

## 1087–Brushes (Fibre, Vegetable)

Ox Fibre Brush Co. (Wooden Back & Staple Driven), Frederick, Md.

## 1088–Brushes (Floor Polishing)

Bradley & Smith, 251 Pearl, New York
Chicago Wood Finishing Co., 1216 Elston av, Chicago, Ill.
Colonial Brush & Mfg. Co., Milwaukee, Wis.
**FRENCH, SAM'L H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Herr, Jno. Floor Co., St. Louis, Mo.
Hunter Brush Mfg. Co., Blanchester, O.
Martin's, J. M. & Sons, 116 William, New York
New Jersey Brush Co., Bloomfield, N. J.
Standard Brush Co., New Hartford, Conn.
Whiting, J. L.-Adams, J. J. Co., Boston, Mass.
**WOOD-MOSAIC CO., Main Office &** Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

## 1089– Brushes (Flue)

Browne, F. W. (Wire), Farmington, N. H.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Lay, Jos. Co., Ridgeville, Ind.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1090–Brushes for Automobile Factories

**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1091–Brushes for Canning Factories

**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1092–Brushes (Foundry, Machine & Factory)

Bradley & Smith, 251 Pearl, New York
Brand, S. H. & Co. (Wire & Bristle), 612 W Monroe, Chicago, Ill.
Brown Cottin Gin Co., New London, Conn.
Browne, F. W. (Wire Casting, etc.), Farmington, N. H.
Cincinnati Mfg. Co. (Steel), 1243 W 6th, Cincinnati, O.
Clinton, E. & Co. (Inc.), 2119 Arch, Phila., Pa.
Colonial Brush & Mfg. Co., 348 Florida, Milwaukee, Wis.
**DARBY, EDW. & SONS CO. (Wire),** 239 Arch, Phila., Pa. (See adv. index, end of book)
Dennin's, Owen Sons (Inc.), Troy, N. Y.
**ESTEY WIRE WORKS CO. (Wire),** 59 Fulton, New York. (See adv. index, end of book)
Felton, S. A. & Son Co., Manchester, N. H.
Flint, Warren F. (Steel), 103 Merrimac, Boston, Mass.
Foot Mfg. Co., 36 Germania av, Jersey City, N. J.
Gilbert & Bennett Mfg. Co. (Wire), Georgetown, Conn.
Goode, Walter P. Co., Boston, Mass.
Haisler Bros. Co. (Machine, etc.), 288 S Water, Chicago, Ill.
Heilman Machine Works, Evansville, Ind.
Hunter Brush Mfg. Co., Blanchester, O.
Indianapolis Brush & Broom Mfg. Co. (Rattan Mixed), 30 Brush, Indianapolis, Ind.
Karl, N. J., Rochester, N. Y.
Lay, Jos. Co. (Bristle, Wire, etc.), Ridgeville, Ludlow-Saylor Wire Co., St. Louis, Mo. Ind.
McCormick, J. S. Co., Pittsburg, Pa.
Mason Brush Works, Worcester, Mass.
Mulholland, William, 80 Lafayette, New York
Murphy, Leavens & Co., Boston, Mass.
**OSBORN MFG. CO. (Railroad** Brushes), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Packard, A. & Co., Boston, Mass.
**Pilley Packing & Flue Brush Mfg. Co.** (Steel Wire), St. Louis, Mo.
Pollock Brush Co., Easton, Pa.
Riddiford Bros. (Specialty Machine Brushes), 160 5th av, Chicago, Ill.
Rochester Brush Mfg. Co., Rochester, N. Y.
Schmidt, Peter & Co., 1663 N Francisco av, Chicago, Ill.
Shanafelt Mfg. Co. (Big Brush for the Foundry), Canton, O.

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**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N. W., Cleveland, O. (See adv. index, end of book)
Stevens, Frederic B., Detroit, Mich.
Thayer, P. E. Co., Pawtucket, R. I.
Thum, Charles D., 150 N 3d, Phila., Pa.
U. S. Chaplet & Supply Co. (Foundry Only), 140 Cedar, New York
Voelker, Philip L., Providence, R. I.
Ward, J. B. & Sons, Paterson, N. J.
Warner, Wm. E. & Co., 136 Centre, New York

## 1093– Brushes (Graphite)

American Carbon & Battery Co., St. Louis, Mo.
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Holmes-Fibre Graphite Mfg. Co., 5155 Wakefield, Philadelphia, Pa.
Speer Carbon Co., St. Marys, Pa.

## 1094–Brushes (Hair or Fibre Substitute)

Luther Bros. Co. (Horse, Dog, Hair, Floor & Scrub Brushes), Milwaukee, Wis.

## 1095– Brushes (Horse)

American Whip Co., Westfield, Mass.
Bradley & Smith, 251 Pearl, New York
Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
Buckeye Churn Co., Sidney, O.
Chicago Brush Co., 120 Lake, Chicago, Ill.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Colonial Brush & Mfg. Co., Milwaukee, Wis.
**DARBY, EDW. & SONS CO. (Leather** Back Bristle; Also Wire, Fibre & Rice Root), 239 Arch, Phila., Pa. (See adv. index, end of book)
Felton, S. A. & Son Co., Manchester, N. H.
Galton Mfg. Co., Cleveland, O.
Grand Rapids Brush Co., Grand Rapids, Mich.
Hendee, C. Cass (Wire) ("Dandy"), Milwaukee, Wis.
Herbert Brush Mfg. Co., Kingston, N. Y.
Hunter Brush Mfg. Co. (Fibre & Bristle), Blanchester, O.
Indianapolis Brush & Broom Co., Indianapolis, Ind.
Lay, Jos. Co. ("Victor"). Ridgeville, Ind.
Martin's, J. M. C. Sons, 116 William, New York
Milwaukee Dustless Brush Co., Milwaukee, Wis.
Milwaukee Horse Cleaner Co. ("Sanitary," Dustless Horse Cleaner), Milwaukee, Wis.
Nelms & Co., 30 N 4th. Phila., Pa.
New Jersey Brush Co., Bloomfield, N. J.
**OSBORN MFG. CO. (Wire), 5401** Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Schott, J. B. Saddlery & Mfg. Co., Quincy, Ill.
Warner, W. E. & Co., 136 Centre, New York
Whiting, J. L.-Adams, J. J. Co., Boston, Mass.

## 1096–Brushes (Hot Water Heater)

Browne, F. W. (Wire), Farmington, N. H.
**DARBY, EDW. & SONS CO. (Wire),** 239 Arch, Phila., Pa. (See adv. index. end of book)
Flint, Warren F. (For Sectional Heaters), 103 Merrimac, Boston, Mass.
Mulholland, William, 80 Lafayette, New York
**OSBORN MFG. CO. (Wire, Bristle or** Fibre), 5401 Hamilton av, N. E., Cleveland. O. (See adv. index, end of book)
Pilley Packing & Flue Brush Mfg. Co. (Wire), 606 S 3d, St .Louis, Mo.

## Brushes (Marking)

(See Brushes, Stencil)

## 1097–Brushes (Paint, Varnish, Etc.)

Bradley & Smith, 251 Pearl, New York
Burton, A. E. & Co., Boston, Mass.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Colonial Brush & Mfg. Co., 348 Florida, Milwaukee, Wis.
Dennin's, O. Sons, Troy, N. Y.
Devoe, F. W. &, T. C. Reynolds Co., 101 Fulton, New York
Dilley, Wm., 124 5th av, Chicago, Ill.
Earle Brush Co., Columbia, Pa.
Felton, S. A. & Son Co., Manchester, N. H.
Flynn Bros., Troy, N. Y.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Gerts, Lumbard & Co., 208 Randolph, Chicago, Ill.
Hanlon & Goodman Co., 270 Pearl, New York
Holcomb, J. I. Mfg. Co., Indianapolis, Ind.
Hunter Brush Mfg. Co., Blanchester, O.
Looby, Wm. H., Centerbrook, Conn.
Lucas, John & Co., 4th & Race, Phila., Pa.
Martin's, J. M. C. Sons, 116 William, New York
Miles Bros. & Co., 102 Fulton, New York
Mitchell, Edwin, 241 Centre, New York
New Jersey Brush Co., Bloomfield, N. J.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Packard, A. & Co., Boston, Mass.
Pushee, Jno. C. & Sons, Boston, Mass.
Ramus, C. F. W., East Boston, Mass.
Rubber-Bound Brush Co., Belleville, N. J.
Rubberset Brush Co., Newark, N. J.
Sheets, Wm. H. Jr. & Co., Baltimore, Md.
Thum, Chas. D., 150 N 3d, Phila., Pa.
Tottle, Wm. A. & Co., Baltimore, Md.
True Bros., Portland, Me.
United Brush Mfrs., 21 Park pl, New York
Warner, W. E. & Co., 136 Centre, New York
Whiting, Jno. L.-Adams, J. J. Adams Co., Boston, Mass.
Wolfe Brush Co., Pittsburg, Pa.
Wooster Brush Works, Wooster, O.

## 1098–Brushes (Platers', Polishers', Etc.)

Blumenthal, Herman & Co. (Brass, Copper & Circular, etc.), 241 Centre, New York
Colonial Brush & Mfg. Co., Milwaukee, Wis.
Continental Brush Co., Newark, N. J.
Dixon, Wm. (Inc.) (Wire, Bristle, etc., "Tampico" Goat Hair), 39 John, New York
Foot Mfg. Co. (Bristle & Wire Lathe, etc.). Jersey City, N. J.
Levett Mfg. Co., Matawan, N. J.
Newark Brush Co., Newark, N. J.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1099–Brushes (Pneumatic Spray)

(For Platers & Polishers)

Eureka Pneumatic Spray Co., 276 Spring, New York
Lederer, F. J. Co. ("Buffalo"), Buffalo, N. Y.
Paasche Air Brush Co., New Era bldg, Chicago, Ill.

## 1100– Brushes (Radiator)

Hunter Brush Mfg. Co. (Horsehair), Blanchester, O.
King Mfg. Co. ("King"), Newark, N. J.
Pilley Packing & Flue Brush Mfg. Co., St. Louis, Mo.

## 1101– Brushes (Railroad)

**OSBORN MFG. CO. (All Kinds), 5401** Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Thum, Chas. D., 150 N 3d, Phila., Pa.
Wolfe Brush Co., Pittsburg, Pa.

## 1102– Brushes (Roofing)

**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Hanlon & Goodman, 270 Pearl, New York
Lay, Jos. Co., Ridgeville, Ind.
New Jersey Brush Co., Bloomfield, N. J.

## 1103– Brushes (Scrubbing)

Bradley & Smith, 251 Pearl, New York
Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
Buckeye Churn Co., Sidney, O.
Chicago Brush Co., 120 Lake, Chicago, Ill.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
**DARBY, EDW. & SONS CO. (Wire),** 239 Arch, Phila., Pa. (See adv. index, end of book)
Eisemann, S. J., 102 Chambers, New York
Hendee, C. Cass, Milwaukee, Wis.
Holcomb, J. I. Mfg. Co., Indianapolis, Ind.
Hunter Brush Mfg. Co. (Fibre, etc.), Blanchester, O.
Indianapolis Brush & Broom Mfg. Co., Indianapolis, Ind.
Lay, Jos. Co., Ridgeville, Ind.
Martin's, J. M. C. Sons, 116 William, New York
Milford Mfg. Co., Mansfield, O.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Ox-Fibre Brush Co., Frederick. Md.
Standard Brush Co., New Hartford, Conn.
Thurnaeur, G. M. & Bro., 83 Worth, New York
Whiting, J. L.-Adams, J. J. Co., Boston, Mass.
Wolfe Brush Co., Pittsburg, Pa.

## 1104–Brushes (Sheet Metal)

Blumenthal, Herman & Co., 241 Centre, New York
Bogue, Chas. J. Elec. Co., 513 W 29th, New York
Chapin, Chas. E., 201 Fulton, New York
**CUTLER-HAMMER MFG. CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
Eureka Tempered Copper Works, North East,
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Ohio Elec. Specialty Mfg. Co., Troy, O.
Perfection Supply Co., 61 Park pl, New York
Phila. Electrical & Mfg. Co., 1228 N 31st, Phila., Pa.

## 1105– Brushes (Shoe)

Bradley & Smith, 251 Pearl, New York
Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Dennin's, Owen Sons, Troy, N. Y.
Gilbert, E. T. Mfg. Co., Rochester, N. Y.
Herbert Brush Mfg. Co., Kingston, N. Y.
Kilbourne Mfg. Co., Troy, N. Y.
Lay, Jos. Co., Ridgeville, Ind.
Martin's, J. M. C. Sons, 116 William, New York
Monroe Novelty Co., Rochester, N. Y.
Ox-Fibre Brush Co., Frederick, Md.
Parks & Parks, Troy, N. Y.
Pollock Brush Co., Easton, Pa.
Smith, J. Findley & Son, 545 E 116th, New York
Standard Brush Co., New Hartford, Conn.
Thayer, P. E. & Co., Pawtucket, R. I.
Weather, Geo. C. & Co., Detroit, Mich.
Whiting, J. L.-Adams, J. J. Co., Boston, Mass.

## 1106– Brushes (Sink)

Barron, Jas. S. & Co., 127 Franklin, New York
Bigelow, J. F. (Wire), Worcester, Mass.
Bing, A. & Co., 607 Bergen av, New York
Bradley & Smith, 251 Pearl, New York
Bridgeport Wire Goods Co., Bridgeport, Conn.
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Fogerty, Philip & Co., 229 Miller av, Brooklyn, N. Y.
Goldberg, C. H. & E. S., 114 Reade, New York
Hendee Wire Brush Co. (Wire), Milwaukee,
Hunter Brush Mfg. Co. (Fibre, etc.), Blanchester, O.
Kornahrens, H., 111 Murray, New York
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Ox-Fibre Brush Co., Frederick, Md.
Parker Wire Goods Co. (Wire), Worcester,
Plunkett, Chas., 205 Duane, New York Mass.
Thurnaeur, G. M. & Bro., 83 Worth, New York

## 1107– Brushes (Spiral)

Browne, F. W. (Wire), Farmington, N. H.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Colonial Brush & Mfg. Co., Milwaukee, Wis.
Foot Mfg. Co. (Bristle for Gunsmiths, Bottles, etc.), Jersey City, N. J.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

## 1108–Brushes (Steel Wire)

Browne, F. W. (For Furnaces, Flues, Heaters, Castings, etc.), Farmington, N. H.
Bunck, Jno. J. & Co., 155 Chambers, New York
Blumenthal, Herman & Co., 241 Centre, New York
Bromwell Co., Cincinnati, O.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Dean, Hy. E. & Co., Worcester, Mass.
**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of book)
**FRENCH, SAM'L H. & CO., 4th & Cal**lowhill, Phila., Pa. (See adv. index, end of book)
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Ludlow, Saylor Wire Co., St. Louis, Mo.
Phoenix Brush & Mfg. Co., 229 Lake, Chicago, Ill.
Pilley Packing & Flue Brush Mfg. Co., St. Louis, Mo.
Schmidt, Peter & Co., 1663 N Francisco av, Chicago, Ill.
Stortz, John & Son, 210 Vine, Phila., Pa.

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## 1109– Brushes (Stencil)

Bradley & Smith, 251 Pearl, New York
Hanlon & Goodman Co., 270 Pearl, New York
Hunter Brush Mfg. Co., Blanchester, O.
Martin's, J. M. C. Sons, 116 William, New York
Mitchell, Edwin, 241 Centre, New York
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Whiting, John L.-Adams, J. J. Co., 690 Harrison, Boston, Mass.

## Brushes (Street or Stable)

(See Brooms, Street or Stable)

## 1110– Brushes (Window)

Bradley & Smith, 251 Pearl, New York
Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Hunter Brush Mfg. Co. (Bristle), Blanchester, Ohio
Indianapolis Brush & Broom Co. ("Capital"), Indianapolis, Ind.
Lay, Jos. Co. ("Victor" Round & Flat), Ridgeville, Ind.
Martin's, J. M. C. Sons, 116 William, New York
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Pollock Brush Co., Easton, Pa.
Thayer, P. E. & Co., Pawtucket, R. I.
Whiting, J. L.-Adams, J. J. Co., Boston, Mass.

## 1111–Brushes (Woven Wire)

Barkelew Electric Mfg. Co. ("Sparkless"), Middletown, O.
Becker Bros. ("Perfection"), 561 Washington boul, Chicago, Ill.
Brockton Brush & Scraper Co., Brockton, Mass.
Chapin, Chas. E. ("Dickey," "Chapin"), 201 Fulton, New York
Crown Woven Wire Brush Co., Salem, Mass.
Eureka Tempered Copper Works, North East, Pa.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
tady, N. Y. (See adv. index & branch offices, end of book)
Goldmark, Jas. (German-American), 83 Warren, New York
Hart & Co., Fostoria, O.
Indianapolis Brush & Broom Co., Indianapolis, Ind.
McMurtry, Jas. E. & Co., 2342 Lincoln av, Chicago, Ill.
Ohio Electric Specialty Mfg. Co., Troy, O.
Perfection Supply Co. (Dynamo), 61 Park pl, New York
Thompson-Bonney Co. ("Acme"), 45 York, Brooklyn, N. Y.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1112– Buckets (Automatic)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)

## 1113–Buckets (Bottom Dumping)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Akron Cultivator Co., Akron, O.
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cockburn Co. ("Lockwood" Automatic or Hand Operated), Jersey City, N. J.
Focht's, Geo. Sons, Hoboken, N. J.
Hains Concrete Machinery Co. ("Hains" Concrete), Union Trust bldg, Washington, D. C.
**INSLEY MFG. CO. (Controllable** Center Dump), Indianapolis, Ind. (See adv. index & branch offices, end of book)
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
Ohio Ceramic Engineering Co. ("Eclipse"), Cleveland, O.
Peterler Car Co., Minneapolis, Minn.
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)
Sackett, H. B. Screen & Chute Co., 1685 Elston av, Chicago, Ill.
Schalkenbach & Budke ("Cyclopean Jones Patent), Jersey City, N. Y.
**Stuebner, G. L. Iron Works, Long Island City, N. Y.**
Tide Water Iron Works, Hoboken, N. J.
Union Iron Works, Hoboken, N. J.

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Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1114–Buckets (Center Dump)

**ACME EQUIPMENT & ENGINEER**ing Co. (Doud's "Acme"), Garfield bldg, Cleveland, O. (See adv. index, end of book)
**INSLEY MFG. CO. (Controllable),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1115–Buckets (Clam Shell)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Browning Engineering Co., Cleveland, O.
Browning Mfg. Co., Cleveland, O.
Channon, H. Co., 28 Market, Chicago, Ill.
**DOBBIE FOUNDRY & MACHINE** Co., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Haiss, Geo. Mfg. Co. (For Handling Coal, Sand, etc.), 363 Rider av, New York
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Industrial Works, Bay City, Mich.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kiesler Co. ("Kiesler"), Pratt & Sangamon, Chicago, Ill.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McMyler-Interstate Co. (Steam), 1799 Columbus rd, Cleveland, O.
**MEAD-MORRISON MFG. CO. (Auto**matic Steam Grab), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
Murphy & Donnelly Boiler Co., Cleveland, O.
National Equipment Co., Monadnock blk, Chicago, Ill.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Obenberger, J. & Son Co., Milwaukee, Wis.
Orton-Steinberger Crane Co., 181 Lasalle, Chicago, Ill.
Owen Bucket Co. ("Owen"), Cleveland, O.
Smith, Theo. & Sons Co., Jersey City, N. J.
Stockton Iron Works (Cast Steel for Reclamation Work, etc.), Stockton, Cal.
Union Iron Works ("Union"), Hoboken, N. J.
Wellman-Seaver-Morgan Co. ("Hulett"), Cleveland, O.
Wetherill Bros. Machine Co., Chester, Pa.
Williams, G. H. Co. ("Faivrette"), Rockefeller bldg, Cleveland, O.

## 1116–Buckets (Coal & Ore)

(See also Tubs, Hoisting & Dumping)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg Cleveland, O. (See adv. index, end of book)
Akron Cultivator Co., Akron, O.
Alliance Machine Co. (Automatic), Alliance, O.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
Aurora Boiler Works (Inc.). Aurora, Ill.
Baltimore Steel Car & Foundry Co., Continental bldg, Baltimore, Md.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Browning Engineering Co., Cleveland, O.
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Clark, W. J. Co., Salem, O.
Cockburn Co., Jersey City, N. J.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Engineering Works Co., Denver, Colo.
**DOBBIE FOUNDRY & MACHINE** Co., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Haiss, Geo. Mfg. Co., 141st & Rider av, New York
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Hendy, Joshua, Machine Works (Ore), San Francisco, Cal.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Dump), Columbus, O.
Leyner, J. Geo., Engineering Works Co., Littleton, Colo.
Lorain Boiler Works, Lorain, O.
McDermott Bros. (Coal Hoisting), New Haven, Conn.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
Magor Car Co., 50 Church, New York
Manitowoc Engineering Works (Dumping), Manitowoc, Wis.
**MEAD-MORRISON MFG. CO. (Auto**matic), Cambridge (Boston), Mass. (See adv. index, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Murphy & Donnelly Boiler Co. (All Kinds), 2511 Elm, N W. Cleveland, O.
Obenberger, Jno. & Son Co. (Automatic Dumping), Milwaukee, Wis.

ORENSTEIN-ARTHUR KOPPEL
COMPANY
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Owen Bucket Co., Cleveland, O.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
Sackett, H. B. Screen & Chute Co., 1685 Elston av, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Schalkenbach & Budke, Jersey City, N. J.
Steubner, Geo. L. Iron Works (Self Dumping & Righting), Long Island City, N. Y.
Union Iron Works, Hoboken, N. J.
Vulcan Iron Works, Wilkes-Barre, Pa.
Watt Mining Car Wheel Co., Barnesville, O.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Western Pipe & Steel Co., Los Angeles, Cal.

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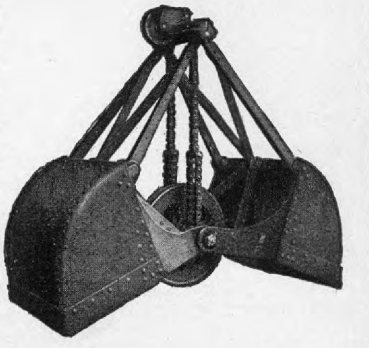
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

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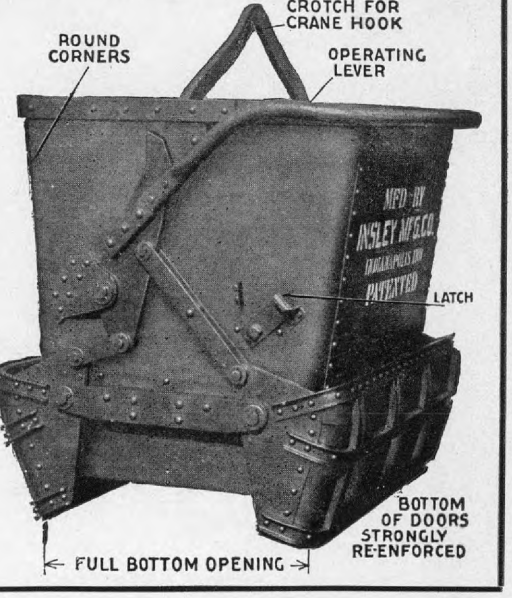
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**BROWN HOISTING MACHINERY CO.** ("Dole" Bottom Dump for Submarine Work), 4403 St. Clair, N E, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Hunt, C. W. Co. (Center Dump), West New Brighton, New York City
**INSLEY MFG. CO. (Tip, Center** Dump, Side Dump & Controllable), Indianapolis, Ind. (See adv. index & branch offices, end of book)
**RANSOME CONCRETE MACHINERY** Co. Dunellen, N. J. (See adv. index & branch offices, end of book)

## 1117a–Buckets (Contractors' Tip)

**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)

## 1118– Buckets (Controllable Centre Discharge)

**ACME EQUIPMENT & ENGINEER**ing Co. ("Doud's"), Garfield bldg, Cleveland, O. (See adv. index, end of book)

## 1119–Buckets (Conveyor, Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York

## 1120– Buckets (Drag)

Browning Engineering Co., Cleveland, O.
Eagle Foundry & Machine Co. (Excavating), Fort Scott, Kans.
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car**roll av, Chicago, Ill. (See adv. index, end of book)
Wellman-Seaver-Morgan Co. ("Dole"), Cleveland, O.
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1121–Buckets (Dredging & Excavating)

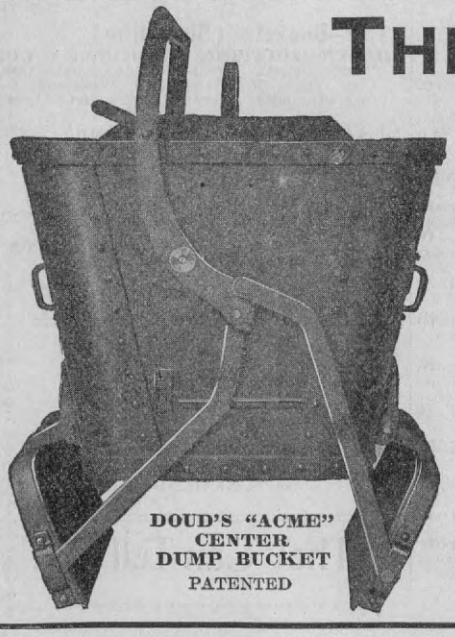
**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Cockburn Co., Jersey City, N. J.
Ervien, Chas. W. & Co., Venango & G, Phila., Pa.
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Heyworth, James O. ("Heyworth-Newman"). Harvester bldg, Chicago, Ill.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
Owen Bucket Co., Cleveland, O.
Page, John W. ("Page" Scraper Excavator). Security bldg, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Theo. & Sons Co., Jersey City, N. J.
Union Iron Works, Hoboken, N. J.
Wellman-Seaver-Morgan Co. ("Hulett" Excavating), Cleveland, O.
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1122–Buckets (Elevator & Conveyor)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
Avery Stamping Co. ("Never-Break" Seamless Steel), Cleveland, O.
**BARTLETT, C. O. & SNOW CO.** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Burrell Mfg. Co., Bradley, Ill.
**CALDWELL, H. W. & SON CO.** (Seamless Steel), 17th & Western av, Chicago, Ill. (See adv. index, end of book)
**CHAIN BELT CO. (Malleable),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams, Chicago Heights, Ill.
Clark, W. J. Co. ("Salem"), Salem, O.
Cross Engineering Co., Carbondale, Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Eagle Foundry & Machine Co., Fort Scott, Kans.
Focht's, Geo. Sons, Hoboken, N. J.
Great Western Mfg. Co., Leavenworth, Kans.
Greenwald, I. & E. Co., Cincinnati, O.
Hendrick Mfg. Co., Carbondale, Pa.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Marseilles Mfg. Co., East Moline, Ill.
Michigan Sprocket Chain Co., Detroit, Mich.
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moline Malleable Iron Co., St. Charles, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Moore & Lorenz Co. ("Salem" for Grain), 2144 W Fulton, Chicago, Ill.
Pennsylvania Eng. Works, New Castle, Pa.
**PITTSBURG CONVEYING MACHIN**ery Co. (Steel, Mall Iron, Bronze, etc.), Pittsburg, Pa. (See adv. index, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Robins Conveying Belt Co., Passaic, N. J.
Sackett, H. B. Screen & Chute Co., 1685 Elston av, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)
Schmahl, Jacob Co., Buffalo, N. Y.
Skillin & Richards Mfg. Co., 46th av & Courtland, Chicago, Ill.
Specialty Engineering Co., Emerald & E Cornwall, Phila., Pa.
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Stephens-Adamson Mfg. Co. ("S. A."), Aurora, Ill.
Taylor Iron & Steel Co., High Bridge, N. J.
Union Iron Works, Hoboken, N. J.
Union Iron Works (Inc.), Spokane, Wash.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E North** av, Chicago, Ill. (See adv. index, end of book)

## Buckets (Fibre)

(See Pails, Fibre)

DOUD'S "ACME" CENTER DUMP BUCKET PATENTED

# THE ACME EQUIPMENT And ENGINEERING CO.

Contractors' Equipment and Supplies

Buckets, Concrete Elevators, Carts, Barrows, Etc.

INDUSTRIAL CARS AND RAILWAYS

GARFIELD BUILDING

CLEVELAND, - - - - OHIO


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## 1123– Buckets (Fire)

(See also Pails, Galvanized Iron)

Atlantic Stamping Co. (Galvanized), Rochester, N. Y.
Central Stamping Co. (Galvanized Iron), 174 Fulton, New York
Cordley & Hayes (Paper), 7 Leonard, New York
Fairfield Rubber Co., Fairfield, Conn.
Geuder, Paeschke & Frey Co. (Galvanized Iron), Milwaukee, Wis.
Goodyear Rubber Co. (Rubber), 787 B'way, New York
Gutta Percha & Rubber Mfg. Co. (Rubber), 126 Duane, New York
Hayward, S. F. & Co., 39 Park pl, New York
Hodgman Rubber Co. (Rubber), 806 B'way, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Hunt & Dorman Mfg. Co., Cleveland, O.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Lalance & Grosjean Mfg. Co. (Galvanized Iron), 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk" Galvanized Iron), Canandaigua, N. Y.
Mineralized Rubber Co. (Rubber), 18 Cliff, New York
National Enameling & Stamping Co. (Galvanized Iron), 374 B'way, New York
New Orleans Roofing & Metal Works, New Orleans, La.
Northern Fire Apparatus Co. ("Waggoner" Sanitary), Minneapolis, Minn.
Republic Metal Ware Co. (Galvanized Iron), Buffalo, N. Y.
Rochester Stamping Co. (Galvanized Iron), Rochester, N. Y.
Safety Fire Extinguisher Co., 29 W 42d, New York
Victor Stamping Co. (Galvanized Iron), Twightwee, O.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## Buckets (Galvanized Iron)

(See Pails, Galvanized Iron)

## 1124–Buckets (Gold Dredging)

**ALLIS-CHALMERS CO., Milwaukee.** Wis. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

## 1125– Buckets (Grab)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**BROWN HOISTING MACHINERY CO.** ("Brownhoist"), St. Clair, N. E., Cleveland, O. (See adv. index & branch offices, end of book)
Browning Engineering Co. (Automatic Square Type), Cleveland, O.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO. (Self-Filling),** Columbus, O. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Owen Bucket Co., Cleveland, O.
Pawling & Harnischfeger Co. ("P. & H.," for Foundry Use), Milwaukee, Wis.

## 1126– Buckets (Grease)

Gem Mfg. Co. ("Gem" Brazed Steel), Spruce av, nr 33d, Pittsburg, Pa.
Lane, C. L. ("Wooden"), East Swanzey, N. H.

## 1127–Buckets (Hard Rubber)

American Hard Rubber Co. (For Acids, Dyes, Brine, etc.), 11 Mercer, New York

## Buckets (Hoisting & Dumping)

(See Tubs, Hoisting & Dumping)

## 1128–Buckets (Malleable Iron)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1129–Buckets (Orange Peel)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
Browning Engineering Co., Cleveland, O.
Browning Mfg. Co., Cleveland, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Channon, H. Co., 34 Market, Chicago, Ill.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, (Crushed** Stone Handling), 50 Church, New York. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
**MEAD-MORRISON MFG. CO. (Orange** Peel Grab), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
National Equipment Co., Monadnock blk, Chicago, Ill.
Smith, Theo. & Sons Co., Jersey City, N. J.
Wellman-Seaver-Morgan Co., Cleveland, O.
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## Buckets (Ore)

(See Buckets, Coal & Ore)

## 1130– Buckets (Pump)

Cleveland Galvanized Works, Cleveland, O.
Combination Rubber & Belting Co. (Rubber), Bloomfield, N. J.
Continental Rubber Works (Rubber), Erie, Pa.
Cronk & Carrier Mfg. Co. (Chain Pumps), Elmira, N. Y.
Diamond Rubber Co. (Rubber), Akron, O.
Freshour, Henry O. (Rubber), Bridgeport, Conn.
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO. (Rubber),** Reade & Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO. (Rub**ber), Jeannette, Pa. (See adv. index & branch offices, end of book)
Republic Rubber Co. (Rubber), Youngstown, O.
Springfield Tire & Rubber Co., Springfield, O.
Union Mfg. Co., New Britain, Conn.
**WYCKOFF, A. & SON CO. (Chain** Pumps & Buckets), Elmira, N. Y., & Alexandria, La. (See adv. index, end of book)

## 1131–Buckets (Sand Handling)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1132–Buckets (Scraper, Clam Shell)

**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1133–Buckets (Scraper, Excavator)

(See also Excavators, Scraper)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church** New York. (See adv. index, end of book)
Channon, H. Co., 34 Market, Chicago, Ill.
**MONIGHAN MACHINE CO., 2034 Car**roll av, Chicago, Ill. (See adv. index, end of book)
Page, John W. ("Page" for Earth, Rock, Gravel, etc.), Security bldg, Chicago, Ill.
**UNION ELEVATOR & MACHINE CO.,** (Channon" Adjustable), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1134–Buckets (Self-Dumping)

(See also Tubs, Hoisting & Dumping)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Eagle Foundry & Machine Co., Fort Scott, Focht's, Geo. Sons, Hoboken, N. J. Kans.
**INSLEY MFG. CO. (Concrete Eleva**tor), Indianapolis, Ind. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. ("Surelock" Steel), Columbus, O.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**McCOY, HENRY J. CO., 65-67 Dey,** New York. (See adv. index, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.
Peterler Car Co., Minneapolis, Minn.
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1135–Buckets (Self-Loading Power Scraper)

**Page, John W. ("Page" Automatic Dumping), Security bldg, Chicago, Ill.**
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1136– Buckets (Sewer)

Akron Cultivator Co., Akron, O.
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Hornhorst, Joseph Co., Cincinnati, O.
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
National Enameling & Stamping Co., 374 B'way, New York
Potter Mfg. Co., Indianapolis, Ind.
Stuebner, G. L. Iron Works, Long Island City,
Stoutenborough, X., 277 Pearl, New York N. Y.
Syracuse Chilled Plow Co. (Steel), Syracuse, N. Y.
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 1137–Buckets (Shoveling)

**BROWN HOISTING MACHINERY CO.** ("Brownhoist" for Limestone, Coal, Ore, Clay, etc.), St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)

## 1137a–Buckets (Side Dump)

**INSLEY MFG. CO. (Controllable),** Indianapolis, Ind. (See adv. index & branch offices, end of book)

**If You Are In Doubt**

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

**They Can Tell You**

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# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

## Hendricks' Commercial Register

### 1138— Buckets (Slag)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)

### 1139—Buckets (Soil, for Jails)

Crown Iron Works Co., Minneapolis, Minn.

### 1140— Buckets (Stone)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)

### 1141—Buckets (Tramway)

Manitowoc Engineering Works, Manitowoc, Wis.

### 1141a—Buckets (Turn Over)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)

### 1142— Buckets (Well)

**EDWARDS MFG. CO. (Galvanized),** 545-565 Eggleston av, Cincinnati, O., & 81 Fulton, New York. (See adv. index, end of book)
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Lisk Mfg. Co. (Ltd.) ("Lisk" Galvanized, with Drop Ears), Canandaigua, N. Y.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

### Buckets (Water)

(See Pails, Galvanized Iron)

### Buckets (Wooden)

(See Pails & Buckets, Wood)

### 1143—Buckets & Pails (Collapsible)

Abercrombie & Fitch Co., 57 Reade, New York
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
Goodyear Rubber Co., 787 B'way, New York
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hayward, S. F. & Co. (Folding Buckets), 39 Park pl., New York
Hodgman Rubber Co., 806 Broadway, New York
Mineralized Rubber Co., 18 Cliff, New York
National India Rubber Co., Bristol, R. I.
Safety Fire Extinguisher Co., 29 West 42d, New York

### 1144— Buckles (Back Hand)

**STANLEY WORKS ("Samson" &** "Stanley"), New Britain, Conn. (See adv. index & branch offices, end of book)

### 1145— Buckles (Bale)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Baling Tie Buckle Co. ("Star" Baling Tie Buckles), 1929 Harvard, Cleveland, O.
**CARY MFG. CO., 29 Roosevelt, New** York. (See adv. index, end of book)
De Haven Mfg. Co., Brooklyn, N. Y.
Oliver Iron & Steel Co. (Cotton Tie), Pittsburg, Pa.
Sharon Steel Hoop Co. (Cotton Tie, etc.), Sharon, Pa.
**Standard Bale Wire Buckle Co., Fort Worth, Tex.**

### 1146— Buckles (Belt)

American Buckle Co., West Haven, Conn.
Connecticut Web & Buckle Co., Bridgeport, Conn.
Conlan, Bernard & Co., Newark, N. J.
Havell Mfg. Co., Newark, N. J.
North & Judd Mfg. Co., New Britain, Conn.
O'Neill & O'Neill, Newark, N. J.
Poeter, E. & Co., Newark, N. J.
Smith & Griggs Mfg. Co., Waterbury, Conn.
Thompson, J. L. Mfg. Co., Waltham, Mass.
Waterbury Buckle Co., Waterbury, Conn.
Waterbury Button Co., Waterbury, Conn.
West Haven Buckle Co., West Haven, Conn.
Whitehouse, H. G., Newark, N. J.

### 1147— Buckles (Pipe)

Boston Bolt & Iron Co., Boston, Mass.

### 1148— Buckles (Wire)

North & Judd Mfg. Co. ("Anchor" Brand), New Britain, Conn.
Spencer Wire Co., Worcester, Mass.
Wire Novelty Mfg. Co., New Britain, Conn.

### 1149— Buckram

Adams Mfg. Co., 106 Grand, New York
Chandler Oil Cloth & Buckram Co. (One, Two & Three-Ply Burlap), East Taunton, Mass.
McLean, Andrew Co., Passaic, N. J.
Richter Mfg. Co., Tenafly, N. J.

### 1150—Buddles or Slime Tables (Revolving)

Mine & Smelter Supply Co. ("Wilfrey"), 42 B'way, New York, & Denver, Col.
Power & Mining Machinery Co., Cudahy, Wis.

### 1151— Buffers (Board)

Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.

### 1152— Buffers (Car)

Brill, J. G. Co. (Angle Iron), 62d & Woodland av, Phila., Pa.
Commonwealth Steel Co. (Cast Iron), St. Louis, Mo.
Gould Coupler Co., 345 5th av, New York; Rookery bldg, Chicago, Ill.; Works: Depew, N. Y.
National Car Coupler Co. ("National" Platform & "Hinson" Friction), Monadnock blk, Chicago, Ill. Works: Attica, Ind.
Railway Appliances Co., Old Colony bldg, Chicago, Ill.
Standard Coupler Co., 2 Rector, New York

### 1153—Buffers (Hand, Electric)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)

### 1154— Buffers (Rubber)

**BOSTON BELTING CO., 260 Devon**shire, Boston, Mass. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Massachusetts Chemical Co., Walpole, Mass.
Mattson Rubber Co., Lodi, N. J.
National India Rubber Co., Bristol, R. I.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO. (Auto**mobile, Carriage, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

### 1155—Buggies (Buhr-Stones)

Hasbrouck, J. J. & Co. ("Esopus"), Office & Quarries, New Paltz, N. Y.

### 1156— Buggies (Charging)

(See Barrows, Furnace Charging, also Cars, Charging)
Kilbourne & Jacobs Mfg. Co. (Steel Coke), Columbus, O.
Pennsylvania Engineering Works, New Castle, Pa.

### 1157—Buggies (Coke & Ore)

**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.

### 1158—Buggies (Fire Chief's)

Stewart, A. F. & S. Co., Rochester, N. Y.

### 1159— Buggies (Lumber)

Curtis & Co. Mfg. Co., St. Louis, Mo.
Streich, A. & Bro. Co., Oshkosh, Wis.

### 1159a— Buggies (Wire)

(See Trucks, Wire Mill; also Cars, Plate & Sheet Mill)

### 1160— Buggy (Armature)

American General Engineering Co. ("A. G. E."), 253 B'way, New York
Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N. Y.

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## 1161—Builders (Contracting)

(See also Contractors, General)

NOTE—The difficulty in separating Builders from Journeymen, especially in small towns where a man is a builder for one operation and returns to the bench when it is completed; and the fact that they are not generally rated, makes this a most unsatisfactory list to compile. Thorough revision has been made from the best sources obtainable and the list is as correct as such a line can be, considering the wide field covered. Brick or Mason Contractors have the word "Brick" or "Mason" following their names.

### ALABAMA.

BIRMINGHAM—Beasley, J. T.
Blackburn, Richard
Evans Bros. Const. Co., 2310 Avenue F
Stockmar, H. A. (Large), 2200 Avenue A
Thompson, T. C. & Bros. (Large)
HUNTSVILLE—Hutchens, Chas. E.
MOBILE—Chamblin, G. A.
Dufree, S. E. & Co.
Fleming, F. H. & Co.
Interstate Construction Co.
Jett Bros. Contracting Co.
Smith, Michael
Ward, E. E. & Co.
Williams & Williams
MONTGOMERY—Blair, Algernon, Hill bldg
Cook & Laurie Contracting Co. (Large), 212 N Lawrence
Hodgson, Jas.
Hodgson & Hannon, 113 Sayre
Hugger Bros., 18½ S Perry
Riverside Brick Co.
TALLADEGA—Kershaw, C. G.

### ARIZONA TERRITORY.

PHOENIX—O'Connell & Cottroll (Brick)
TUCSON—Henry, Benj. Co.
Monier, Q.

### ARKANSAS.

FORT SMITH—May, W. F. & Co., 601 S 13th
O'Neil, L. S.
Paine, R. L., 2403 Tiles
Reddick, T. T., 2701 Kinkead
Schleuter, Fred, 702 N 18th
Truschel, Jacob. 901 N 14th
HAZEN—Proctor, C. S.
HOT SPRINGS—Brack, J. D.
Mills, Gibson (Stone)
JUDSONIA—Bowden, E. C.
LITTLE ROCK—Apple, S. M.
Black & Sons
Booher, C. A.
Bush, Matt. M.
Casey, W. R.
Clark, C. W.
Collins, E. T.
Crawford, Busch
Davis, I. B.
Dumm, Toney
Fair, George W.
Geughan, Fred.
Krah, D.
Mick M. H.
Miller, Son & Co.
Odom, J. S.
Powers, Patrick
Slagle, C. B.
Smeltzer, John
Stanton & Collamore
Stewart, W. R.
Thalman & Reed
Wendler, M. O.
PARAGOULD—McDonald, W. J.
PINE BLUFF—Bruce, M. M.
Dutton, John
Holton, W. S.
Lane, R. W.
Owens, Newton
VAN BUREN—Allen, R. B.

### CALIFORNIA.

ALAMEDA—Powell Bros. Construction Co.
MacRae, Chas. W., 2315 Encinal
BERKELEY—Estey, Fred.
Sheridan, Phil.
FULTON—Shriver, J. B.
GRASS VALLEY—Body, W. C. D. & Son
LODI—Young, W. A. Lumber Co. (Large)
LOS ANGELES—Aaron, D. W., 411 S Main
Acme Building Co., Stimson bldg.
Anderson, W. J. & Son, 408 S Spring
Anslyn, C. M. & Sons, 1620 Wall
Artherholt, O. M., 218 B'dway
Ashbridge, T. A. (Brick), 1020 W 1st
Ashby Building Co., 256 S Spring
Atkinson, J. F., Harvard bldg
Black, A. W., 746 S Main
Beer & Beer, 438 S Chicago
Bottema Bros., 315 B'way
Brainerd, H. J., Chamber of Commerce
Brandt & Rhodes, Byrne bldg
Bryant, Oliver C., 1503 Magnolia av
Builders Exchange, Stimson bldg
Butcher, Jas. M., 2309 S Hoover
Cady, W. C. (Brick), 914 E 39th
Carr, G., 416 W av 56
Carter, J. A., 257 S Spring
Coast Construction Co., 411 S Main
Connor & McCann, 3120 Manitou av
Co-Operative Home Builders' Assn., Severance bldg
Cossar, Wm. C. (Brick), 1009 Bridge
Cowper, H. M., 106 W 3rd
Crandall, W. N., 310 Stimson
Crowell, Weymouth, Pacific Elec. bldg
Daniels, J. A., 1620 Palo Alto
Dawson, J. B., Pacific Elec. bldg
Dennis, S. B., 922 Court Circle
Drew, R. T. & Son, 1804 Pacific av
Engstrum, F. O. Co. (Brick), E 5th c Colyton
Grannis, R. W., 321 W 16th
Greenamyer, C. E., 129 W 2nd
Gribling, A. L., 207 New High
Harbou, George, 224 S Spring
Haupt, Paul, 315 S B'dway
Hicks, W. A., 203 B'dway
Hood, W. G., 228 W 4th
Hopper, E. L. & Son, Laughlin bldg
Houck & Slosser, 341 E Vernon av
Hughes & LeVere, 215 Concord
Hull, A. M. & Son, 3040 Lanfranco
Hurwitz, M. Bryson bldg
Jackson, W. H., 130 S B'dway
Jones, A. S., 1102 Temple
Kendall, Edward, 256 S priing
Knerr, H. E., Douglas bldg
Knerr, H. E. (Brick), Douglas bldg
Kubach, C. J. Co., Pacific Electric bldg
Larkins, W. P., S San Pedro
Leaver, Guenthart & Co., 608 S Main
Long, J. R., 256 S Main
Los Angeles Building Co., Delta bldg
Los Angeles, Bungalow Co., 106 W 3rd
Los Angeles Co., 608 S Main
McDermott, J. F., 736 S San Pedro
McCabe, R. M., 608 S Main
Mitchell, J. Burris & Co., Douglas bldg
Peterson, A. A. Co., Stimson bldg
Pioneer Building Co., Bradbury bldg
Poole & Jones, 218 W 3rd
Pratt, G. T., 440 E 3d
Powers, B. N. Co., 315 S B'way
Pozzo Construction Co., 501 Macy
Putnam, J. H. & Sons, 3047 Inez
Rebman, John, 253 S B'dway
Richards-Neustadt Const. Co., Stimson bldg
Robrts Construction Co., 106 W 3d
Bucker, Elmer, 1057 W 38th
Sage & Little, 145 S Spring
Salveter, H. D., 702 S Spring
Scott, Benjamin, 1622 Main
Seelye, O. L., Citizens National Bank
Smith, Ross W., 2270 W 23d
Taylor Bros., 608 S Main
Tyler & Co., Bumiller bldg
Walker, O. A. (Brick), 1152 Jasmine
Weesner, C. (Brick), Pacific Elec. bldg
Walker Cottage Co., rear 420 W 6th
Western Construction Co., 408 S Spring
Weston, Eugene, 106 W 3d
Wiechmann, Henry & Son, 3409 S Main
Williamson, E. S., Grant bldg
Winona Building Co., 430 S B'dway
Yard & Hichborn, Citizens National Bank bldg
Yarnell, B. F., 315 S B'dway
OAKLAND—Allyn, B. C., 820 Isabella
Amador Marble Co.
Anderson, W. W., 461 Chestnut
Barnard, C. S.
Blake & Bilger Co.
Bullock, O. M.
Caldwell, J. C.
Davis, Wm. & Son, 57 12th
Doss, C. A., 1016 E 15th
Dingwell, J. F., 1515 West
Dingwell, J. H., 1502 West
Forbes, W. A., 963 Franklin
Gilman, A. E.
Greene, S. A., 109 Cameron
Gunn, J. F., 823 Isabella
Hitchcock & Son
Johnson, O. P.
Jones, F. G., 1113 Webster
Koenig & Kroll, 878 B'dway
Laughland & Schnebly Co., 1443 B'dway
Law, T. R., 527 18th
Leiter, Geo. L., 3700 West
McCarter, H. T.
McDonald, J. B., 764 19th
Maxwell & Havens, Piedmont
Norman, S. A., 1362 West
Prenville Co., 265 12th
Reardon-Crist Const. Co.
Shrader, J. F., 522 16th
Thomson, A., 127 San Pablo av
Watson Roof Co.
Wilkins, C. W.
PALO ALTO—Bentley, Geo. H.
SACRAMENTO—Harvie, N., 2204 O
Harvie, N., 2204 O
Shadinger, M. H., 2101 10th
Sillers Bros.
Wendt, G. A.
Wolf, P., Jr.
SAN FRANCISCO—Alpha Building Co.
Anderson & Co., 1623 Eddy
Atlantic Gulf & Pacific Co., Monadnock bldg
Bagge, W. H. & Son Building & Cons. Co., Balboa bldg
Bateman, J. C., Monadnock bldg
Beach, H. Ward, 3686 20th
Behm, Joseph & Co., 141 Oak
Bergren, L. G., 209 Sanchez
Blume, C. A., Cons. Co., 185 Stevenson
Bovyer & Son, 2377 Pine
Bowles, J. R., 117 Geary
Brady, Matthew V.
Builders Exchange (The), 180 Jessie
Butler, Thos., Custom House
Butterworth Co., 850 Treat av
Button, I. V., 533 14th
Caldwell, F. Cook, 969 Fell
Campbell, James Co., Chronicle bldg
Campbell, Jno. V., 1040 Bryant
Campbell, Mark & Son
Christian, Thomas, 540 Haight
Coast States Cons. Co., 503 Market
Coburn, Ira W., 548 Duboce
Collman & Collman, Harrison av & 7th
Concannon, W. N., 112 Market
Condon-McGlynn Co., 789 Mission
Connors, W. P., 860 Potrero av
Currie & Currie, 1215 3d av
Days, Thos. H. & Son, Monadnock bldg
Duebel, Chas. Co. (Inc.), 225 Harrison
Dowling, J. J., 925 Fulton
Duebel, Chas. A., 225 Harrison
Ellis, Seely E., 2016 Filmore
Equality Home Building & Loan Co. (Inc.), Pacific bldg
Farquharson, D. B., 1760 Ellis
Fee, Grant, 469 Frederick
Fennell, Martin M., 68 Post
Ferguson & McCunn, 1739 Union
Ferrolite Co., 338 Pine
Gale, Merritt F. & Son, 185 Stevenson
Gingg, J. H., 918 Larkin
Gneggo, M. & Co., 36 Wood
Golden Gate Commandery Co. (Building), 2137 Sutter
Gompertz, Chas. W., 120 Bush
Harney, C. S., 3619 18th
Harney, J. G., Pacific bldg
Healy, Tibbits Cons. Co., 268 Market
Hock, Chas. H., 910 Devisadere
Helbing, Wm., 1420 Market
Hooker & Lent, 1st & Market
Hyde, Harjes & Co.
Jack, Wm. Robt., 1925 O'Farrell
Jess, W. N., 2011 Dvsdo.
Karp, H. & Son, 711 Valencia
Kittle Construction Co. (Large)
Klyce, Harvey A., Monadnock bldg
Knowles & Reichley, 693 Mission
Land & Nugent, 2165 Market
Lange & Bergstrom, 787 Market
Larsen, H. H. & Bros. (Masons)
Leach, Richard, 65 Matoma
Little, William Estate Co. (The), 3462 19th
Lynch, P. J., Monadnock bldg
Long & Hoyt Co. (Large)
McCullough Contracting Co., 2023 Market
McGowan & Butler, 180 Jessie
McKee Bros., 50 Spencer pl
McKenzie, W.
McKillican Bros., 338 Pine
McKillop Bros., 534 Cole
McLean, Murdock, 3773 Sacramento
McSheehy Bros.
Mahony Bros., Crocker bldg
Mahony Bros., Jr., Crocker bldg
Marcuse, Felix
Mason & Morrison, Monadnock bldg
Mercer-Fraser Cons. Co., 1525 Mission
Miller, Geo. E., 710 Montgomery
Mitchell, J. W., Pacific bldg
Mitrovich, J. I. Building Co., 1036 Golden Gate av
Moller & Sons, 520 Jessie
Moore, C. P. Building Co., Mills bldg
Morehouse, C. C. (Plasterer)
Mortensen Construction Co., 19th & Indiana
Murphy, J. J., 2859 California

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# DOYLE & COMPANY

## Contractors and Builders

## 1519 and 1521 Sansom Street

PHILADELPHIA, PA.

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# *Jacob A. Zimmermann,*

*MASON, BUILDER*

*AND*

*General Contractor,*

**505 Fifth Ave.,** *NEW YORK.*


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Nimmo, Geo., 345 8th
Northern Building Co., Humbolt Bank bldg
Olmo, J., 2823 25th
Pacific Construction Co., 16 California
Palmer, McBryde & Quayle, Monadnock bldg
Penny, Isaac, 412 O'Farrell
Pettus, T. A., Mechanics Bank bldg
Plant, Wm., 40 Spencer pl
Porter, W. F., 718 Bryant
Price & Hutcherson, 1550 Turk
Pringle, Dunn & Moscrip, 338 Pine
Pynn, Hugh E., 1349 B'way
Reed, Walter N., 233 Precita av
Remington, E.
Riley, Jno. F., 1717 Webster
Ringrose, Rhody, 2618 Sacramento
Salanave, Jno., 915 Pacific
San Francisco Concrete Building Const. Co., Monadnock bldg
San Francisco Rebuilding Co.
San Francisco & Suburban Home Bldg Co.,
Sass & Son, 629 California 201 Euclid av
Scott Building Co., 326 5th
Segurson Bros., 1545 Folsom
Selfridge & Sypher, 16 Geary
Sheehan, Jno. R. Co. (Inc.), 350 Post
Smyth, John T. E., 1238 Masonic av
Snook, Jas. A. & Co., 247 Davis
Summit Construction Co., Kohl bldg
Thompson-Starrett Co., Bush & Kearny
Trost, Robert, 3336 Army
Trounson, J., 21 Mason
Tucker, E. W. & Co., 215 Spear
Urfer, Chas. E., 2650 Post
Walker, P. J., Monadnock bldg
Watson, Daniel, 515 Pine
Western Stair Works, 2691 Maryosa
Wilhelm, A. H., 428 Capp

SAN JOSE—Bates, A. C. & Bigger
Childers, W. E.
Curtis, F. A.
Davis, F.
Emstrong, F. O.
Field, C. O.
Fletcher, A. B.
Frace, V. M. & Keith
Gardiser, F.
Green, M. D.
House, A. F.
Lamb, J. B.
Morrison Bros.
Pawley & Moore
Smith, E. F.
Stewart, D. L.
Strottenhammer Bros.
Summers, R. O.
Thorp, J. C.
Woehl, H. F. & Bacon

SAN LUIS OBISPO—Mitchell, F. C.

SANTA CRUZ—Folsom, C. D.
Knapp, J. B.

SANTA ROSA—Hoyty Bros.
Neurauter, Joseph (Brick & Stone)

STOCKTON—Clark & Henery Construction Co.

VACAVILLE—Sharpe, G. H. (Large)

WOODLAND—Curson, W. H.
Winne, W. H.

## COLORADO.

COLORADO SPRINGS—Atkinson, Lynn S.
Schlessinger & Harlan (Stone & Brick)

DENVER—Doak, Jas. M., 2429 W. 37th av
Dunn, Chas. J.
Dustman, John H.
Fewlass, Robert
Geiger, John
Graham, Matthew, 620 14th
Hamman, J. A.
Hatch, C. O., 1846 Arapahoe
Hervey, S. C.
Hudson, Jno. W., 1625 Pearl
Hughes, Wm. H.
Humphrey, A. O.
Jackson, Jas. B.
Jewett, F. D.
Johnson, Thos.
Kirchhof, Chas. E., 2705 Walnut
Lesenea, John A.
Little, George
Lund, Ernest
McArthur, P. C.
Morcum, Chas., 1932 Lawrence
Needles, Avery
Norton, Uri M.
Pearce, S. A., 1856 Arapahoe
Pedersen, Rasmus
Ripley, A. S. Building Co.
Skeel, Prentice M.
STEWART, JAS. & CO., Century bldg
Stocker & Fraser, Continental bldg
Traver, N. L. (Brick)
Treff, C. A.
Van Meter, M. H., 1531 Cleveland, pl
White, J. T.
Wilber, A. H.
Wolff, H. J.
Young, C. A., 1640 Champa

FORT COLLINS—Brawner, E. M. (Brick W'k)
Brown, L. W. (Brick Work)
Hughes, Wm. G., 2019 Champa
Button, C. A.
Conley, M. G.
Earley, W. T.
Finger, J. (Stone)
Garnick & Son (Large)
Leonard, R. B.
Loveland, C. J.
Lunn, John (Brick Work)
McDaniel, G. R.
Schroeder, H. W.
Suiter & Ryan (Concrete)

PUEBLO—Anderson, Gust. (Mason), 1143 Claremont av
Baum, A. C. (Mason), 825 E 4th
Campbell, Alex, 316 W 6th
Clark, W. H., 612 Court
Fraser, W. G., 217½ S Union av
Hadwiger, J. L., 112 W 5th
Hill, A. W., 1331 E 10th
Lyons & Axtell, 1502 Clermont av
McKee, W. C. (Mason), 227 W. 14th
Mahoney, Daniel, 1000 Carteret av
Marble Bros., Routt & Mesa avs
Merz, J. A., 529 Van Buren
Mills, Jas. W. (Stone), 208 N Santa Fe av
Parker, Silas, 216 W 8th
Pearson, Axel, 617 W 4th
Pitman, D. A. (Mason), 1110 E. 6th
Rapalle, R. L., 912 E 2d
Reynolds, Geo. E., 1019 W 13th
Richardson, J. A., 319 Court
Schmidt, H. C., Evans & Fairview
Standard Construction Co., Board of Trade
Tayor, Frank, 15 Triangle blk bldg
Whitlock, W. J., 110 Santa Fe av

TRINIDAD—Crouch Lumber & Cons. Co.
Emerick, Chas. (Mason)
Rupp, W. G. (Mason)
Pierce Lumber & Mfg. Co.

## CONNECTICUT.

ANSONIA—Alcott, Rufus C.
Barnes, W. A.
Beardsley Building Co.
Brandt, Frank
Coles, Alfred
Dwyer, John
Hall, Richard J.
Holbrook, Royal (Stone), 53 Franklin
Holzwig, Louis
Nelligan, Michael J.
Penders, T. H., Prospect
Potter, Wm. (Stone), Rockland av
Ransome & Smith Co.
Rolston, C. A.
Woodruff, C. Y.
Wooster, C. B. (Stone), 263 Wakelee av
Wooster, Dwight, 277 Wakelee av W A

BETHEL—Gilbert Bros.
Senior, A. H.

BRANFORD—Bradley, Richard (Large)
Hosley, Benjamin F.

BRIDGEPORT—Anderson Bros., Nash's lane
Behrens, F. W., 319 E Washington av
Belleizzi, M., 255 Grand
Bjorkland, C. A., 1490 Park
Bjorkland, C. S., 114 Poplar
Blycher, A. W.
Bishop, John H.
Bostford, Chas. H.
Bown, Alfred A.
Burnes, H. A.
Burnes, J. E., 221 Colorado av
Burns Co. (The), 83 Fairfield
Chatneuff, Chas., 113 Wood av
Christensen & Christensen
D'Agostino, Sparano & Cennino
Dalton & Wallenta, 133 Union av
Dowling & Bottomley, 1119 Broad
Foley, G. B.
Filmer, Sterling, 65 Kossuth
Frederickson, Bros. Co., 629 Railroad av
French, Geo. F. & Son, 480 Park
Garvey, Patrick
Gough, John, 839 Railroad av
Grive, J. Andrew, 1231 Pembroke
Haight, Edward F., 45 Ellsworth
Hoffman, Henry C. & Co., 249 Water
Hoffman, Lewis W.
Hubbell, Samuel W. Building Co., 59 Knowlto
Hurlburt, Walter S. Building Co., 225 Joh
Jackson, John & Co., 500 Park
Johnson, A. L., 21 Stratford av., Fairfiel
Jones, Clarence L.
La Forge, Marcus E., 15 Hayes
Laister, Percival, 31 Kossuth
Locke & Huddy, 952 E Main
McCarthy, Geo. T., 933 Iranistan av
McFarland, John J.
Martin, Wm., 705 N Washington av
Mills, Geo. E., 207 Knowlton
Morehouse, Andrew & Sons, 804 William
Muirhead, Wm. R. Co., 1362 Pembroke
Nettleton, H. H., 189 Wordin av
Nordling, George
O'Brien, T. & Son, 137 Black Rock av
Pilotti, P. & Son, 373 Main
Purdy, Hy. M. Co., 550 Water
Sanger, Jos. M., 520 William
Schindler, John
Schwarz Bros., 166 Lindley
Sherman, Adolph, 195 6th
Smith, W. A. Building Co., 190 Cannon
Squires, Seth B. & Sons, 51 Elm
Stewart, Thos., 6 Ashley
Stone, Lorenzo D., 116 Arctic
Toole & Sunderlin, 83 Fairfield
Turrill, Jas. C., 153 John
Vanstone & Vanstone, 106 Austin
Whelan, Robt. W., 411 Gregory
Wilkins, Philip, 446 Beechwood av

BRISTOL—Benoit, W. F. (Stone)
Burr, F. E.
Crothers, W. W.
Fogg, W. E. (Large)
Freeman, James
Hall, D. W.
Hough, Edgar A. (Stone)
Lacourse, G. J.
Linstead, F. W.
Linstead, Wm. (Large)
Nystrom, Niles E.
Stewart, L. L. (Large)
Taillon, A.
Thompson, M. C.
Whittlesey, D. L.

CROMWELL—Condon, H. W.
Johnson, E. T.

DANBURY—Barry, Henry, Crosby n Maple av
Bell, Alfred, 104 Elm
Benedict, John H., 4 Moss av
Blackman, W. B., Crosby
Bunnell, Jno L., 10 Pearl
Crossley, Chas. C., 24 Griffing av
Cunningham & Patchen, 34 Lincoln av
Foster Bros., 21 Delay
Hager Bros., 11 Meadow
Hewitt & Warden
Hill & Reynolds
Leahy, Edmund, 7 Clark
L'Heureux, Henry, 28 Main
Mallett, Judson B., 23 Rowan
Marsh & Knapp, E. Franklin
Northrop, Warren H., 16 Bates pl
Olmstead, F. C., 19 Crosby
Osborne, Peter M., 353 Main
Parsons, Abel, 28 George
Schnable, Philip W., Stevens pl
Selleck & Hathaway
Sunderland, W. W., 7 Spring

DANIELSON—Stone, S. S.

DANIELSONVILLE—Gilbert, J. A.

DARIEN—Scofield, Hy. & Son
Whitney, Wm. M.

DERBY—Austin, Daniel, Mt. Pleasant
Durrschmidt & Co.
Hession, Wm., 922 Smith
Yocher, J. G., Jr.

EAST HADDAM—Galdwin, Casper S.
Mack, J. T.

EAST HAMPTON—Carpenter, H. E.
Darling, A. R.
Flood, Andrew
Strong & Hale

EAST HARTFORD—Bragg, J. Merrick, 7 Elm
Carroll, Jos. E., 15 Central
Dutton, Leslie, 14 Rector
Driggs, Waldo J., 62 Hartford av
Fairbanks, C. P.
Gehan, John B., 63 High
Jones, Chas, A., 32 Hartford
Whaley, A. M., 41 Olmsted
Whaples, Jno. F.

ESSEX—Southworth, Jos. P.

FAIRFIELD—Birch, Robert J., Southport
Busser, Ignace
Cobb, John H.
Forsyth, Thomas
Godfrey, Eugene, Banks South District
Gray, Charles, Southport
Perry, Frank E.
Reed, Joseph
Rigney, Jas.

GREENWICH—Anthony, Daniel & Co.
Burn, E. E.
Crosby, Jos. P.
Cumiskey, James
Duge, John L.
Eagan, Thos. J.
Ferris, J. H.

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Mead, W. H.
Mills, S. A. & Co.
Reynolds, James (Banksville)
Ritch, Thos. J.
Roina, Angelo
Schubert, Bernard
Selleck, W. Sands
Stoothoff, Stephen
Thompson, Anthony
Wanamaker, Geo.
Weir, Joseph T.
Wigmore, Thos. E.
Young, Thomas

GROTON—Edgecomb, J. F., 34 Ramsdell
Hanover, Clinton D.
Marquardt Bros.
Tiffany, Albert N.
Watrous, Horace G.

HAMDEN—Bassett, George A.
Wooding, B. H.

HARTFORD—Alcorn, Robert T., 21 Gold
Andrus, Chas. B. & Son, 902 Main
Angus, Alex.
Ashwell, R. R., 145 Vine
Barrett Bros., 46 Trumbull
Barrett, Fred. W.
Belden, E. S., 217 Laurel
Benner, A. J.
Bering, P. H., 34 Hubbard
Best, Herman J.
Brabazon, Thos. F.
Brodeur, A. J.
Browne, Edmund, 1419 Main
Budde, A. W., 107 Hungerford
Calder, Geo., 140 Sargeant
Cairns, Robt. & Son, 80 Clark
Caulkins, W. E. & Son, 2 Chapel
Cook, Charles C. (Large), 401 Trumbull
Couture, Joseph H., Clermont
Crane, Patrick W., 90 John
Curtiss & Dean
Deming, Wm. B., 19 Columbia
Denison, George E., 168 Pearl
D'Esopo Bros., 1179 Main
Dodge, D. W., 36 Kinsley
Donovan, Anthony
Egan, James F.
Farrel, Patrick R.
Erickson, M. H., 77 Ward
Flynn, Jno., M., 27 Vernon
Flynn, Martin, 62 Lincoln
Flynn, Thos., 96 Buckingham
Fox, T. R. & Son, 36 Pearl
Frary, John
Gellert, A. N., 275 High
Geretz & Sullivan
Gradisky, L. W. H., 80 Ann
Grozier, Jas. H., 125 Warrenton av
Gustafsen, Elon W., 49 Pearl
Hannon, Hugh, 1191 Park
Helmovitch, Wm., 14 Avon
Hills, A. L., 720 Main
Hills, Jno. R., 754 Main
Hoggson Bros., 36 Pearl
Hollis, D. W. & Son, 212 Asylum
Hoye, F. P., 70 Lenox
Johnson, Richard, 27 Pawtucket
Jones, R. F., 36 Pearl
Keep, W. E.
Kent, F. D.
Lasher, P.
Low, David
Low, Oswald
Low, W. B. & Son
Lowe, W. T.
Lykke, John P., West Hartford
McCann, Patrick A., 33 Vernon
McIntyre & Ahern, 50 John
McKensie, John A.
Mahl, Herman
Malcolm, Thos., 26 State
Meloney, Chas. D., 27 Spring
Murphy, J. P., 1337 Park
Nevels Bros., 7 Central
Newton, Theodore & Co., 77 Pearl
Newton, Thos. S., 116 Clark
Nolan, John F., 54 Benton
Norton, Malcolm A., 71 Highland
O'Brien, Wm., 136 Retreat
O'Loughlin, James, 756 Main
O'Neil, Michael, 24 Pawtucket
O'Nell, Wm. F., West Hartford
Parker, G. S., 187 Pearl
Pellett, A. D., 240 Smith
Penders, James
Peterson, A. P., 18 Baltimore
Philbrick, Halsey B., 26 State
Porteus, Robert, 13 Forest
Provost, Napoleon L., 142 Brown
Purves, Adam, 334 Asylum
Reemer, G. A.
Richmond, C. F., 2 State
Rogers, James H., 58 Belden
Rosen, J. Co., 12 Suffield
Rowley, Frank H., 607 Albany
Rowley, J. H., 32 Raymond
Scanlon, John W.
Scott, John, 48 King
Scoville, A. W. Construction Co., 756 Main
Scoville, W. H., 720 Main
Sherman, Rogers W.
Simms, W. J., 80 Pearl
Sinnott Bros., 87 Lincoln
Slattery, Austin P.
Smith & Des Champs
Snell, O. W., 2 Central
Snow, G. W.
Squires, Walter L.
Stenson, O. E., 16 Cone
Sullivan, D. M., 42 Adelaide
Svenson, Chas., 54 Woodbine
Taylor, Peter, 101 Bartholomew
Tremonto, D.
Tryon, Watson & Son, 720 Main
Walch, Thomas
Welch, Thomas
Westland, W.
Wilcox, W. A., 36 Raymond
Wilson, Samuel
Woodward, Fred'k E., 66 Madison

MANCHESTER—Palmer, Robert W

MERIDEN—Arnold, G. A., 225 Curtis
Bagley, George, 48 Linsley av
Barrow, R. W., 27 Union
Bloomfield, Garry, 18 Chestnut
Clancy, John F.
Fitzgerald, M. F., 15 S 1st
Haigis, Matthias, 184 Broad
Kooreman, C.
Lanoue, Walter, 121 State
Lawrence, J.
Lines, H. Wales Co. (General), 134 State
Lyman, Austin J.
Miller, W. F., Kensington Heights
Morehouse Bros. Co., 20 Miller
Morehouse, H. L.
Moses & Arnold, 8 Perkins
Penfield, O. H.
Russel, Thos. W. & Sons
St. Cyr, Z. J., 26 Wood
Stecker, Henry, 29 Gales
Stiles, F. W., Butler & Hanover
Suzio, Leonardo, 185 Lewis av
Williams, G.
Wright, A. G.

MIDDLETOWN—Brazos, A. & Sons, 82 Oak
Burke, Robert W., 84 Pearl
Butler, H. R., Church
Donahue Bros.
Loewenthal, Gustav, off Front, nr Russell
McConnochue, H.
Murray, A. A. & Sons
Mylchreest Bros
Mylchreest, Wm. & Sons, 9 Brainerd av
O'Brien, Dennis, 42 Crescent
Robinson, A. B. & Son, 145 Main
Southworth, Jos. E., 520 High
Stone, C. O. & Son
Tryon, J.
White, Frank H., 27 Park pl
Young, J. B. 50 S Main

MILFORD—Baldwin, S. H.
Bristol, Dennis M.
Clark, Elbert N.
Miles, J. L.
Smith, David E. & Co.

MYSTIC—Cromwell, C. S.
Crumwell & Heath
Heath, John H.
Mattison, Robert R.
Miner, Manning
Tufts, Caleb

NAUGATUCK—Christenson, Andrew
Dunn, Jere. H., 180 Church
Gorman, Jno. J., Gorman c Lewis
Hotchkiss, E. A., Beacon Valley
Kennedy, T. A.
Matson, Lawrence V., 215 N Main
Reynolds, Joseph W., Cherry
Winslow, Lester H.

NEW BRITAIN—Allen, John W. & Son, 231 Chestnut
Andrews, W. A., 32 Camp
Bergstrom, August
Bradley, Wm. S., 14 Kelsey
Burk & Johnson
Carlson, Eric U.
Carlson, Jno. August, 157 Dwight
Carlson & Torell, 67 N Fairview
Christopher, H. L., 126 Jubilee
Clifford, A. D. Co.
Conlon, F. & Son, 93 Tremont
Crowe, Thomas W.
Curtis Building Co.
Dohrwend Bros. Co.
Doolittle Bros. (Brick & Stone), Linwood
Downes, John E.
Edwards, Clark, 60 Lafayette
Ganske, E. G. H., 338 Park
Hennessy, Timothy & Son, 166 Hartford av
Hibbard, B. H. Co. (Inc.), 153 Arch
Holmes, Chas. W., 110 Fairview
Johnson, Chas. F., 147 Jubilee
Johnson, S. J.
Mansworth, Edward, 16 Beaver
Meskill, John E.
Moran, J. D., 85 Hartford av
Norton, Henry
Paonessa, Angelo M. K
Ramage, R. J. (Brick & Stone), 42 W Pearl
Anderson, Mathew S. av Whitneyville
Rowley, C. E., 111 Dwight
Rutherford Bros.
Sparks, Wm. B.
Webb, Thomas (Stone), 58 Chestnut
Whaples, Henry N.
White, Walter B.
Zink, Pius

NEW HAVEN—Andersen, H. M., 188 Putnam
Arnold, L. H.
Baldwin, Elbert H., 37 Gill
Barnes, Wm. E., 75 Gibbs
Bassett, Geo. A., Ridge rd, Hamden
Beloff, A. & Son
Berman, Louis, 11 Vernon
Bohn, Geo. & Sons, 798 Congress av
Brainerd & Benson, 120 Commerce
Brett, Edw. P.
Burke, J. E. & Bros.
Carey, John E.
Carmichael, A. J., 595 Whitney av
Carroll Bros., 13 Anderson
Church, James A. Co., 262 Sherman av
Clark, David H. Co., 166 Brewery
Clark, G. Wilbur, 244 Sherman av
Coffey, Lawrence J., Autumn nr Canner
Conlan Bros., 176 Franklin
Cook, Geo. H.
Countryman, Edwin
Coyne Bros.
Crocker, B. F., 267 Water
Curtiss, Walter B., 869 Quinnipiac av
Dauenhause, Chas., 313 1st av, W. H.
Davis, T. L., 41 George
Dean, Geo. W.
Dean, J. LeRoy, 65 George
De Lucia, Gennaro, 70 Haven
Difrancesco & Mali
Doherty, Timothy F., 195 Poplar
Dutcher, Oscar W., 25 4th av, W. H.
Elwell, F. J., 113 California
Farnham, Arthur N.
Fitzgerald, Garrett J.
Fogarty, J. A.
Fowles, Harry I., 90 Poplar
Frisco, Carlo, 495 Columbus av
Galligan, Jas. E., 137 State
Gayton, Wm. A. (Stone), 31 Whiting
Gibbud, Mervin J., 83 Water
Gilhuly, Bernard, 41 Martin, W. H.
Gillette Construction Co.
Goldstein, A., 71 Prince
Goodale, Wm. M.
Grant, Geo. M. Co. (Large), 865 Chapel
Grenier, Abraham, 730 Howard av
Gutzeit, Louis, 9 Alling
Hagan, Jno. A., 83 Whalley av
Hawken Bros.
Hayes, Wm. H.
Hedges, Geo. L.
Heft, Richard, 90 Thompson
Hildreth, J. D. & Son, 514 Elm
Hine, E. L., 72 Asylum
Hogan, James H., 138 Davenport av
Hubbell-Merwin Co., 19 Artizan
Humphrey, C. E. & R. T., 233 Main, W. H.
Humphrey, G. W. & Sons, 153 Washington av, W. H.
Ideal Building Co., 36 Stanley
Knoll, Carl A. & Son, 51 Sherman av
Leonard, John N. & Co., 902 Chapel
Lettney, W. H., 193 Main, W. H.
Lewis, John W., 338 Lighthouse rd, nr Morris cove
Lipson, Philip, 157 Washington av
Lowe, H. E., 354 Ferry
Lowe, John, 352 Grand av
McCauley, Harry
McFeters, Charles, 370 Orchard
McWilliams, Alex. & Sons
Maher, Thomas F.
Malcolm, J. D.
Martin, Francis, 246 Thomas, W. H.
Morcaldi, Dominick, 126 Orchard
Morgan, S. H., 80 E Pearl
Morton, J. C., 478 State
Murdock, Chas. W.
Osborne, John S.
Overton, E. W.
Parmelee, Hy. E.
Paterson, Wm.
Perry & Woodmansee

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Platt, Philip E., 152 Peck
Prince, Edw. A., 498 Howard av
Rathgebar, Geo., 178 George
Razee, Geo. E.
Reed, Chauncey F., 59 Forest
**Reid, Wm. J., Shelton av & Read**
Ritchie, Wm. Co., 115 Bishop
Robertson, Wm. H., 57 Crown
Rogers, S. R. & Sons, 492 Orchard
Shannon, James
Sherman, Jno. L. & Son, 253 1st av, W. H.
Sperry & Amos
Sperry Co. (Large), 902 Chapel
Sperry & Treat (Masons), 39 Church
Stowe, F. A. & Son, 115 Fountain
Stone, Abraham
Thomas & Hobora Co., 340 Howard av
Thomas, Lewis R., 824 1st av, W. H.
Thompson, John H., 270 Lenox
Thorpe, James Co.
Todd, James E., 546 State
Valente, P.
Warner, F. A., 862 Dixwell av
Warner, H. E., Jr., 27 B'way
Warner, John W.
Waterhouse, C. R., Jr.
Wharton, Geo. D.

NEW LONDON—Archer, Jos. H.
**Dolan, Jos. A. (Mason)**
Douglas, Hamilton R., 27 State
Dunkar, Burtis H.
Fowler Bros. (Masons), 181 Ocean av
Fowler, O. L. (Mason), 164 Willett av
Geer, N. Elbert, 367 Bank
Goddard, A. O., 345 Broad
Grane, J. G. (Mason), 87 Jeerson av
Griswold, H. R., Broad nr City line
Gunn, Wm.
Harvey, Wm. A., 311 Ocean av
Hewitt, Geo. W.
Holmes, G. H., 38 Front
Hull & Gould
Linicus, B. R., 743 Bank
Lyon, I. U., 26 Colt
MacDonald, G. D., rear 352 Bank
McQueen, Geo. A. (Mason), 346 Montauk
Martin, Lake R., 24 Montauk av
Mineault, Geo. A.
Murphy, Dennis J. (Brick), 29 Tilley
O'Connell, Michael, rear 52 Bank
Pierce, Edgar B. (Bricklayer), 29 Golden
Post Bros. (Stone), Hempstead cor. Home
Prentice, Herbert B., Ledyard cor. Bayonet
Roe, W. L., Jr.
Rogers, H. E. Construction Co.
Ryan, J. J. (Stone), 105 Blackhall
Smith, Joseph, 2d, 576 Bank

NEW MILFORD—Beach, C. M.
NOROTON HEIGHTS—Skelton, R. F. (Masonry, etc.)

NORWALK—Banks & Co., 42 5th, E N
Bedient, Fred'k H., 15 Centre av, N
Beess, Wm. Platt
Berger, E. & Co., 45 Wall, N
Chariott, Salvator (Stone), 26 Wood, S. N.
Clark, E. F.
Gamble, Leslie, 12 Seaview av, E. N.
Gregory, Franklin B., 6 Westport av, N.
Hendricks, Harry A., Silver Mine av nr Comstock av, N.
Hoyt, Dudley E., Highland av, S. N.
McMahon, Wm. H., 30 Seymour av, S. N.
Malkin, A. R. & Co., 3 Mechanic, N.
Maring, H., Conn. av nr. W Norwalk av
Mather, Henry W., 49 Water, S. N.
Morehouse, Samuel C., W. N.
Smith, F. J., 14 Water, N.
Smith, W. H., 39 West, S. N.
Waldron & Riordan, 29 Haviland, S. N.
Walsh, T. L., 8 Pine, N
White, W. F., 83 Winfield, S N
Yost, Charles, 80 Main, N.

NORWICK—Beckwith, Frank E., 90 W Main
Blackledge, H. & Co., 27 7th
Bowers, Gilbert, 130 Washington
Carpenter, Albert N., 23 Commerce
Cruthers & Lillibridge
Dodd, Thos. (Stone), 36 4th
Fellows, Geo. E., 343 Franklin
Fowler, Edward B., 5 Carter av
Hiscox, James
Hyde, Geo. M.
Kinne, Elmer A.
Peck, McWilliams & Co., (Brick & Stone), Perkins, C. W., 44 W Main 47 W Main
Rice, Frank G.
Stetson & Young, 50 W Main
Torrance, Archibald (Heavy), Prospect, head
Williams, C. M., 218 Main of 9th
Willis, Irving J., 56 Pearl

PUTNAM—Bellrose, Julien
Carpenter, E. J. (Bricklayer & Plasterer)
Carpenter, S. S. (Bricklayer & Plasterer)
Chase, E. V. & Son
Coville, Henry, Grove st
Hopkins, H. F.
Wheaton Building & Lumber Co., Front

RIDGEFIELD—Kennedy, J. M.

ROCKVILLE—Arnold, George & Son
Caposto, D. F.
Hutchinson, Frank
Street, A. F.

SEYMOUR—Beecher, Frederick
Jorey, Chas. H.
Kempf, Chas. J.
Lanyon, Joseph L.
Peck, Arthur T.
Tomlinson, Edward K.

SOUTHINGTON—Knapp, Jacob F.

SOUTH MANCHESTER—Bloom, Charles H.
Corbin, J. Arthur
Hawley, J. E.
Hohenthal, E. L.
Mercer, Arthur
Schreiber, Gustav
Treat, Charles O.

SOUTH NORWALK—(See Norwalk)

STAMFORD—Anderson, Clais
Anthony, R. M.
Avery, B. B.
Ballard, Elah (Mason)
Bell & Seeley (Masons)
Bland, Thomas
Bradt, William H.
Buchichio, Leonard (Mason)
Burke & Julius
Buttrey, Fred. (Mason)
Caldwell, Chas,
Christensen, Anton
Daly, Chas. P.
Elliott, S. E,
Ennis, John
Gregory, Stephen A.
Gourley, A. G.
Harris Const. Co. (Masons)
Hawes & Daly (Masons)
Hook, Frank
Laureno & Sons (Masons)
McAdams, Thomas (Mason)
Mollett, C. T.
Naylor, Samuel
O'Connell, Daniel (Mason)
Parsons, Harold A.
Parsons, Harold A. (Mason)
Paul, Edward G. (Mason)
Raymond, Everett
Rogers, G. A. & Son
Roreck, John
Rubertucee, Peter (Mason)
St. John, S. Y.
Scofield, Arthur A.
Selleck, Walter
Shannon, James F.
Studwell, D. W.
Studwell, J. W.
Swenson, Chas.
The Shea & Sullivan Co. (Masons)
Thompson, S. B.
Vuono Const. Co. (Masons)
Weed, Eugene A. (Mason)
Weed, George N.
Wood, Frederick

STRATFORD—Blakeslee, Chas. W.
King, Benjamin

SUFFIELD—Brown, F. W.

THOMASTON—Watrous, John N.

TORRINGTON—Christensen, Theo. A. (Brick)
Clinton, G. R.
De Michel, Jno. & Bros. (Stone)
Farley, J. L.
Fuller, Frank W.
Gleeson, Patrick
Hotchkiss Bros. & Co.
Jenks, George
Kirsch & Racheter
Lathrop & Shea
Longhi, Louis & Bro. (Brick & Stone)
Peck, Geo. H.
Robbiati, A.
Torrington Building Co. (Large)

WALLINGFORD—Botsford, Horace, Cherry
Wooding, C. F.

WATERBURY—Ahern & Dillane, 38 John
Baham, James J., 24 Adams
Berardi, Joseph & Co., 60 Clark
Bergen, Edward & Sons, 475 Baldwin
Bernier, Victor, 1011 Baldwin
Bronson Knibbs Co., 24 E Liberty
Butler, Thos. F. (Brick & Plasterer), 145 Buetner, J. F., 227 N. Willow Bishop
Carey, Owen, Crescent
Chatfield, G. S. Co. (Brick & Stone), 73 Canal
Chatfield & Chatfield (Brick & Stone), 94 Chetzlanoff, Julius Benedict
Cronin, D. E., 11 E Main
Daniel, Alfred
Delowry, Thos. A., 65 Cherry
Dixon, A. B.
Dulac, M. A.
Fidelity Construction Co.
Gaffney, J. W. & Son, 427 E Main
Gay, Victor, 22 Union
Goodwin, Jos. S., Munro pl
Greene, H. T., 30 Woodruff
Hanson, Julius
Hulburt, W. M. Co.
Iiron, A.
Ketchen, C. A., 432 N Willow
Lovett, Jeremiah A., 59 Fuller
Lariviere, Alfred
Lariviere, Mathias
**Leboeuf, Felix**
**Macauley Construction Co., 49 Chatfield**
Mraz, John 419 S Leonard
Riggs, Gardner G., 108 Bank
Seeley, Chauncey & Co., 85 Bishop
Shapiro, I. M.
Smith, Edw. C., 399 N Willow
Tracy Bros. Co., 52 Benedict
Upham, George A.
White, John F.

WATERTOWN—Griffin, J. E.

WEST HAVEN—(See New Haven)

WILLIMANTIC—Caisse, Alexis
Jones, J. H., 128 Windham
Larkin, H. A. & Son, 73 Spring
Larrabee, C., Jr.
Latham & Crane, 159 Valley
Martin, Jos. A.
Paquette, H.
Sullivan, J. O., 48 Jackson
Sullivan, Michael (Stone), Scotland

WINDSOR—Griswold, Charles
Tryon, Watson & Son

WINSTED—Beckley, E. R.
Beers, N. D.
Carey, Jos. F. (Stone & Brick)
Hotchkiss, Lester E.
Johnson, H. V. (Stone)
Parsons, E. B.
Roe, John W.
Ryan, James
Thibault, N. J.

## DELAWARE.

DOVER—Coffin, G. E.
Cohee, John
Collins & Cohee
Fisher, William
Hirons, Jas. A.

LEWES—Johnson, Frank E.
Johnston, C. W.
Johnston & Virden
Virden, Wm. H.

MILFORD—Shockley, Wm. S.

NEWARK—Jacobs, L. B.
Litte, Samuel (Stone Mason)

WILMINGTON—Anderson, Chas. E., 3 E. 13th
Austin, W. B. Contracting Co.
Bader, J. A. & Co.
Barkley, J. Warren
Barkley, N. Smith. 1324 W 5th
Berg, Aaron P. (Mason)
Brierly, Arthur W.
Chandler, Philemma, 907 Monroe
Charles, Geo. S. & Son, 10 W 8th
Clowd, Newton H.
Cox, Canby, 412 Walnut
Christiana Construction Co.
Dangel, David & Sons, 506 Van Buren
Downward, Alfred, 716 Shipley
Eckman, Aument, 1509 Gilpin av
Foulk, W. H. & Son, 223 W 10th
Haddock, Wm. D. & Co., 804 Orange
Hamilton, J. S. (Mason), 829 Orange
Healy, John E.
Hewes, James W.
Jones, Wm. H., 839 Market
Kane, James H. & Sons
Lenderman, Jacob
Lutton, Norris S., 2612 W 18th
Lynch, Henry S., 409 Orange
Manufacturers' Contracting Co.
May, W. Howard
Melvin, Thomas H., 525 E 9th
Phillips, J. M.
Reed, A. S. & Bro. Co. (Brick) (Large Builders), 815 Shipley
Seth, Chas. H.
Simmons & Bros., 102 W 5th
Tatnall-Brown Co.
Tindall, Chas. H. & Son
Tindall, Wm. C., 511 W 9th

## DISTRICT OF COLUMBIA.

WASHINGTON—Allared & Appeby, 609 13th
Anderson, Notley, 1402 G. N W
Bache, Arthur J., 1225 11th, N W
Barkman, Geo. W., 721 A, S E
Beall, R. J. Construction Co., 1217 F, N W
Beckwith & Quackenbush, 2925 M, N W
Bieber, Henry, 503 M, S W
Blethyn, Benj. I., 1803 Oregon av
Blundon & Simons, 30 Quincy, N W

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Boryes & Smith
Bottsford-Dickinson Co., Colorado bldg
Bowersox & Harper, 114 Florida av, N E
Boyer & Smith, 1204 C, N W
Brinkley, S. J., 1322 S Capitol
Brown, H. Z., 939 L, N W
Burden, Joseph, 609 G, N W
Burgess & Parsons, 627 F, N W
Bursey, I. B., 615 5th, N E
Carter, Leroy H., 225 1st av, N W
Cassel, E. D., Lawrence bldg
Cassidy, Chas. J. Co., 523 13th, N W
Cissell, D. T., 1220 11th, N W
Cissel, S. C.
Cogan Bros. & Forschner, Colorado bldg
Colburn Bros., Colorado bldg
Collins, Chas. D., 719 18th, N W
Corbett, Geo. W., 507 9th, N W
Cowsill, Arthur, Colorado bldg
Cozzens, Richard E., Bank bldg
Denham, Chas. S., 820 19th, N W
Denham, Lewis C., 909 20th, N W
District Construction Co., Colorado bldg
Dowrick, Jas. A., 1625 1st, N W
Drew, Fred'k Colorado bldg
Dunn, J. M., 1324 5th
Eckhardt, Nicholas, 1140 18th, N W
Edmonston, Samuel H., 611 G, N W
Edwards & Simpson, 717 12th, N W
Emmert, Louis H., 1110 15th, N W
Fersinger, Peter, 1 N, N W
Fissel & Wagner, Home Life bldg
Fitzpatrick, Jas. (Brick), 116 C, S E
Getz, Aug. & Son, 402 6th, N W
Gibbons, Jos. H., 1314 N. C. av, N E
Gilbert, H. P., 1002 32d, N W
Graham, Wm. I., 1407 Q N W
Harrison, G. W., 505 4th, S E
Hazen & Latimer, 463 K, S W
Henderson, John, 1214 E, N W
Henderson, Thos. C., Corcoran bldg
Herriman, M. H., 224 12th, S E
Holtzclaw, W. B., 1705 Pa. av, N W
Horton, Geo. P., Jr., 550 Columbia rd, N W
Hull, Henry, 1418 F, N W
Hutchinson & Harbin, 211 12th, N W
Kemp & Kennedy, 1623 L, N W
Kennedy & Davis Co., 1413 G, N W
Kesler, Wm. H., 215 New Jersey av, N W
Kimmel, Wm. A., 1508 Columbia, N W
King, Chas. W., 1311 G, N W
Knell, Benj. B., 221 John Marshall
Knott, Richard H., 1302 F, N W
Landvolght, Edward, 2100 1st, N W
Lane, Jno. H., 1725 3d, N E
Langley, Chas. A., 310 12th, N W
Lankford, J. A., 317 6th, N W
Larcombe, Jno. S., 808 17th, N W
Leaman, Lafayette, 1004 9th, N W
Lewis, Timothy L., 51 U, N W
Lipscomb, W. P. & Co., 1405 F, N W
McCollum, Edw., 4 I, N W
McCray, Wm. H., 718 14th, N W
McGee, Lawrence, 1515 Gales, N E
McGregor, John, 729 12th, N W
McIntosh, James, 1518 E Capitol
McIntyre. John H., 3221 Volta pl, N W
McKay & Morris, 1320 New York av, N W
Macarty, Daniel J., 1419 G, N W
Maloney, William E., 11 5th, N E
Mandley, Jos. C., 230 H, N W
Martin, Jas., 1333 S Capitol
Marshall, Jas. L., 614 13th, N W
Matthews, L. J., 130 W, N W
May & Pierson, 1467 P, N W
Melton, T. H., 621 F, N W
Milburn, Harry E., 1743 N Capitol
Millar, Alex, 1215 Ohio av, N W
Montgomery, Victor F., 1112 4½, S W
Mooney, W. E., 1425 New York av
Newman & Smith, Colorado bldg
Newton, Geo. P., 1006 F, N W
Nolan, James F., 1709 New Jersey av, N W
Parry, R. L., 1006 13th, N W
Parsons, James L., Pa. av & 13½
Piper & Kenyon, 729 15th, N W
Plumley, Samuel M., 408 H, N W
Potts, F. C., 17th nr Q, N W
Prescott, Samuel J. Co. (Large), 814 13th,
Pumphrey. Geo. C., 414 7th, S W N W
Reeve, Wm. K., 1319 30th, N W
Reynolds, Jos. S., 1816 7th, N W
Richardson & Burgess (Inc.), Colorado bldg
Rinehart & Dennis Co., Colorado bldg
Sanford, H. V., 1321 G, N W
Saxton, Edmund, 841 Bladensburg rd, N E
Scaggs, R. A., 1225 Franklin, N E
Schaffert. John L., 427 I, N W
Scott, John H. (Brick), 320 10th, N E
Sonneman, F., 1205 Rhode Island av, N W
Soran, Chas. H., 1409 New York av, N W
Sorrell, Richard H. (Brick), 329 N, S W
Sorrell, Wm. H., 244 8th, S E
Speir, W. E. (Large), 1342 New York av
Spencer, Wm. S., Bond bldg
Spitzer, G. C., Home Life bldg
Thompson, F. L., 3534 Brightwood av
Turner, Watkins L., 41 Q, N W
Turton, James E. & Son, 1007 K, N W
Van Ness, E. M., 1252 Girard, N E, B'kland
Volland, Chas. D., 1526 1st, N W
Volland, Wm. A., 1315 V, N W
Walker, Jno. T. & Son, 1920 N, N W
Walker, Littleton W., Colorado bldg
Wardman, Harry, 717 14th, N W
Wickline & Campbell, 1316 G, N W
Wynkoop, J. A., 628 F, N E
Zepp Bros., 1305 F, N W

## FLORIDA.

FERNANDINA—Mann, John R.
JACKSONVILLE — Blackmer, F. C., Dyal-Upchurch bldg
Boden, J. H., 329½ W Forsyth
Brown, Q. E., May nr Gilmore, R
Boykin & Burwell, 107 W Forsyth
Burwell & Hillyer
Cotter, Wm. T. (Large)
Green, Henry
Hadlow, W. T. Co. 510 West bldg
Halsema Woodcock Const. Co., 403 Main
Hammett Contracting Co., 1027 Main
Kooker, J. H., 35 W 5th
Lyttle, Wm. H., 720 Park
McCarroll Compo. Stone Stucco Co.
Onley, J. E., 41 W Union
Palmer & McKenzie (Large), 426 W Forsyth
Richardson, W. P. & Co., 128 E Bay
Silsbe, Richard, Jr., 11 Livingston bldg
Swisher & Demere, Placide bldg
Taylor, Lennis, 536 W Union
Trout, Fred J.
Yates, Henry H., 317 W State
KEY WEST—Kerr, Wm. R.
ORLANDO—Mathews, T. W.
PENSACOLA—Clubbs, A. V. (Large)
Davis, L. M. (Large)
Heine, Robt. B.
Pons & Sunday
Wills & Broughton
ST. AUGUSTINE—McGuire & McDonald
ST. PETERSBURG—Eureka Stone Paving Co.
TALLAHASSEE—Childs Building & Lumber Co.
Gilmore & Davis
TAMPA—Levick, Harry
Sherrell, T. B.

## GEORGIA.

ALBANY—Guest, E. L.
Leonard, F. B.
Smith, C. D.
ATHENS—Brown & Cobb
ATLANTA—Aikins, S. C., 608 Peters bldg
Allen, D. C., 416 Peters bldg
Bailey, J. H., 350 Ashby
Bensel, Wm. 66 E Ellis
Brown, I. N., 705 Peters bldg
Callaway, Quinn, 22 W. Mitchell
Clayton, G. A., 507 Gould bldg
Corbally, J. A., 126 Windsor
De Leon, Moise (Large), 4th Nat. Bank bldg
Donaldson & Pearson, 2 Wall
Fischer, J. A., 162 Whitehall
Flindt, Wm., 113 Pulliam
George, W. H., Prudential bldg
Hamilton, A. L. & Son, 69½ S Pryor
Harris, M. A., 450 S Pryor
Harvil, J. J., 68 Lee
Heifner, F. P., 221 Gordon
Higdon, J. F., 227 Georgia av
Hudson, B. E., Peters bldg
Ittner, Geo., 1015 Prudential bldg
Ittner, N., 1015 Prudential bldg
Lane Bros., 1027 Candler bldg
Lee, D. J., 555 Whitehall
Lee, J. B.
Lowe, J. H., 918 Austell bldg
Ludewig, F. G., 414 Empire bldg
McCaul, C. Co., Walton cor Fairlie
Miles & Bradt Co., 800 Austell bldg
Padgett, B. & Sons, 1202 Candler bldg
Pittman Co., 1131 Candler bldg
Slater, A. J., 136 Rawson
Terry, N. H., 94 Whitefoord av
Wagener, Fred.
Warner, S. I., 40½ N Forsyth
Warthen, B. & T. Co., 602 Eng.-Am. bldg
Wesley. P. J. & Son, 218 Peters bldg
Williams, H. A., 822 Empire bldg
AUGUSTA—Daly, T. J.
Holby, C. B.
Jones, W. W.
MacMurphy, Charles L.
Mobley, E. H.
Palmer, L. E.
Rowland, A. K.
Sibert, J. W.
Skinner, R. E. & S. W.

BRUNSWICK—Anderson, W. C.
Bowen & Thomas
Conzelman, J. G.
COLUMBUS—Barlow, M. C.
Callahan, A. R.
Pollard, M. J. C.
Wooton, L. E.
MACON—Beeland, W. J., 220 2d
Bishop, F. J.
Hilly Bros.
James, B. W.
Jones Bros., Grand bldg
Oliver, E. L.
Shaw Bros.
Smalling, R. H. & Sons
Wilder & Paullin
ROME—Bradfield, W. P.
Broach, T. B.
Dupree, J. F. & Son
Edwards, J. R.
McKinzie, C. C.
SAVANNAH—Artley, A. A.
Brown, E. D.
Dickson, T. C.
Eason, J. R. & Son, 316 Waldburg W
Gadsden Contracting Co.
Gould, John D.
Hawley, W. O.
MacMahon, J. J. & Son
Nesseler Contracting Co.
O'Connell, Chas. S.
Rabey, P.
Savannah Cut Stone Co.
Von Eberstein, F. A. & Son
Wimbish, A. L.
Wood, Henry M., 219 Duffy W
Young, H. O.
THOMASVILLE—Arnold, H.
Gribben, James
WAYCROSS—Morton, A. S. & E. O.

## IDAHO.

BOISE—Capital Construction Co.
Faris-Kesel Construction Co.
Grimes, J. K.
Hubbard & Carlson
Little, C. B. (Large)
McLean, J. W.
Michael, Frank
COEUR D'ALENE—Carscallon Bros.
Kreig, E. M.
LEWISTON—Madgwick, H. T.
TWIN FALLS—Ball Bros. Co.
White, Ernest

## ILLINOIS.

ALTON—Ash, E. J. (Brick)
Ash, W. M. (Brick)
Beiser, W. & H. (Masons)
Dilling, William (Mason)
Hagan, James (Brick)
Hoffmann, John (Mason)
Kleinschnittger, A. W.
Wardein, Henry
Wuellner, J. J. & Son
Yungck, J. P.
ARCOLA—Goggin & McNally
Hunt, V. G.
ARLINGTON HEIGHTS—Boeger, J. C.
Meyer, Henry G.
Schulenburg, John
AURORA—Briggs, E. D.
Conklin Construction Co.
Doan & Ambruster (Large)
Frisch, Nicholas
Graham, W. H.
Hawkes, P. F.
Heitkotter & Sons
Little, Jas.
MacKimmie, Jno. (Large)
Sylvester, Lewis & Son (Large)
BELLEVILLE—Ehinger, Emil
Reeb Bros.
BLOOMINGTON—Evans, J. W. Sons Co. (Large)
Greenlee, Tyler T.
Walsh, Michael (Stone)
BREESE—Klunto, A. J. Lumber Co. (Large)
CAMBRIDGE—Peterson & Pierson
CAMP POINT—Liggett Lumber Co. (Large)
CAIRO—Carrol Contracting Co.
Ferguson, Frank
Fraser, A. S.
CANTON—Pool & Sweet
CHAMPAIGN—English Bros.
Freeman & Brooks (Masons)
Norman, W. G.
Showers & Loper
Stines, John W., Sr. (Brick; Large)
Stoolman, A. W. (Large)
CHARLESTON—Muchmore, C. B.
CHICAGO—Abbott, Frank I., 405 5th av
Abhau, J. & Co., 4109 Archer av
Adler, Chas., 153 W Chicago av
Adsit, W. R., 1835 W Madison

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Allan, George & Co., 625 W 69th
Allison & Golbeck, 115 Dearborn
Almquist, John K., 635 W 61st pl
Anderson, Adolph, 5765 Wentworth av
Anderson, Aug. M. Co., 11115 Commercial av
Anderson, A. & E., 121 Lasalle
Anderson & Wold, 1920 Humboldt av
Annand, Thomas, 5331 Cottage Grove av
Appel, Henry Sr., 172 E Washington
Armstrong, C. D., 6735 Lafayette av
Ashbeck, L. A. & Co., 938 Greenwood Terrace
Asplund, Emil R., 3241 Cottage Grove av
Avery, William, 36 E Walton pl
Bach Ole S., 24 Superior
Baldwin, M. E., 204 Dearborn
Barr, Jno. F., 3447½ Indiana av
Barry, W. H., 205 Lasalle
Barry, M. & Son, 446 N State
Bartell, William, 86 Fifth av
Bartzen, Peter, 4771 Lincoln av
Baudler, Geo., 5141 S Campbell av
Beahan, John J., 1463 E 53d
Behrer & Benson, 1545 63d
Bellie, Avile M., 5230 S Morgan
Beste & Casati, 1127 George
Birkhoff, Geo., 85 Washington
Bishop, Harry A., 115 Adams
Bostrom & Olsen, 3605 N Clark
Brahm, Valentine C., 646 N Homan av
Brinkman, William, 2223 School
Brisch Bros., 3441 Douglas blvd
Brown Bros., 380 Dearborn
Brown, Chas. H., 3212 Washington blvd
Brown, F. E. & Co., 215 Dearborn
Brust, Michael A., 815 S Robey
Buck, A., 646 41st
Buck, Niels & Co., 145 Lasalle
Bulley & Andrews, 115 Dearborn
Burlin, W. S., 941 W Lake
Busch, Rud. J., 557 E 47th
Byrne, M. P. Cons. Co., 88 Washington
Byrne, Thomas, 5502 S Halsted
Campbell, Archie M. Co. (Large), 217 La Salle
Campbell, Murdock, 112 Clark
Carlson, Albert, 519 E 37th
Carlson, Claus, 4161 W 25th
Carnegie, J. L. & Co., 159 Le Salle
Carson, C. E. & Co., 159 La Salle
Carter, Wm. G., 138 Washington
Chalstrom, A., 1451 E 53d
Chamberlain, T. T., 3253 Forest av
Champion, Henry, 923 53d av
Chapman, Charles, 84 La Salle
Chegwidden, Thos., 7923 Lowe av
Chelius, Fred'k N., 211 83d
Chevalier, Louis G., 704 W Monroe
Chicago Building Repair Co., 253 Lasalle
Christensen, Christian, 7316 Yates av
Christy, G. R. & Co., 1st Nat. Bank bldg
City Erection Co., 112 Clark
Clark, A. R. & Co., 1st Nat. Bank bldg
**CLARK, C. EVERETT CO.** (Large), 100 Washington. (See adv. index, end of book)
Cockburn, James, c 131 Lasalle
Cohigraff, Henry, 1106 Webster av
Collins, Chas. W., 44 N Paulina
Collins & Morris, 138 Washington
Constantine, Albert W., 95 Washington
Cooper, Douglass A., 2725 Calumet av
Copp, Gideon A., 821 Rush
Cordes, Henry, 130 S Hoyne av
Cormack, Jos., 145 La Salle
Couleur, John B., 1024 R Robey
Crawford, A. M., 200 Laflin
Crear, Wm., 125 N Curtis
Crilly, Daniel F., 167 Dearborn
Crilly, W. M. Co., 167 Dearborn
Cripe, Simon H., 5512 W Higgins av
Croake & O'Brien, 145 La Salle
Crook, Edwin (Large), 4004 Cottage Grove
Cullen, Geo. P., 78 Lasalle av
Custodis, Alphons Chimney Construction Co., 164 Dearborn
Daegling, Arthur V., 9000 Houston av
Daniels, Oscar & Co., 79 Dearborn
Danielson, Charles A., 10061 av L
Dearborn Cut Stone Co., Dearborn & 61st
De Boer, Germ., 2030 N Hamlin
Degerman, Axel, 1240 Lawrence av
De Laby, Julian A., 1455 N Fairfield av
Denton, John, 3564 Cottage Grove av
Desmond, Owen E., 49 Plymouth ct
Dettmers, Hy., 1159 N Clark
Dewar, Wm. A., 5509 Kimbark av
Diegley & Campbell, 143 Lasalle
Diehl, John E., 350 W 63d
Doherty, Frank E. (Large), Chamber of Commerce bldg
Doolan, Albert, 4710 Wabash
Doyle, David H., 3708 Douglas blvd
Dresser, Van S., 108 La Salle
Du Plissis, Eugene, 664 E 64th
Dusil, Richard, 2553 S Trumbull av
Earl, Johnson, 438 N Pine av
Edis, John T., 5525 W Lake
Egerter, J. G., 12 Throop
Ehrhart, W. G., 7 Lasalle
Eilenberger, H. Co., 153 La Salle
Eisenberg, J. W. 13 Laflin
Ericson, Axel L. (Large), 145 Lasalle
Erickson Bros., 84 Lasalle
Ericsson, Hy. Co., 84 Lasalle
Erikson, Oscar, 87 E Washington
Ewen, John M. Co., The Rookery
Fader, Alexander, 6400 Ingleside av
Falkenan Const. Co., 108 Lasalle
Ewen, John M. Co., The Rookery
Fader, Alexander, 6400 Ingleside av
Falkenan Cons. Co., 108 La Salle
Farrell, J. & Son, 3547 Prairie av
Federal Improvement Co., The Rookery
Findlay, Alexander, 7252 Princeton
Findlay, John S., 7006 Perry av
Fitton, Joshua, 556 E 35th
Flick, John P., 1116 Montana
Ford & Phillips, 18 Lomax pl
Forrer, Hy., 3904 Indiana av
Fortin, Eugene, 3244 Vernon av
Forst, Anton, 2359 S St. Louis av
Foster, Thos. D. & Son, 522 Millard av
Fox & Klippel, 5109 Cornell av
Freeman, Hart & Co., 138 Washington
Frost, Chas., 209 S Water
Fuller, Geo. A. Co. (Large), 204 Dearborn
Furst, Louis, 43 Market
Galbraith, Thos. B., 2130 Indiana av
Gardner, J. T., 7 21st
Gareau, Cesaire, 1954 W Harrison
Gawne, Daniel, 3133 Princeton av
Gebhart, Hy., 2128 Lewis
Gerten, John, 2202 Cleveland av
Gilbert, Harry S., 1825 Iowa
Gilliard, James, 145 La Salle
Gilsdorff, Henry & Sons, 163 Randolph
Gindele, Chas. W. Co., 3333 Lasalle
Gitzen, Matthew, 5542 Union av
Goetzinger, Wm., 3820 Lowe av
Gomoil, Ernest W., 3116 Lowe av
Gore, W. K., 145 La Salle
Grady, Michael, 744 S Winchester av
Grant, Frank W., 16 S Lincoln
Gray, Nathaniel B., 12 Laflin
Gregory, John R., 3813 Wilton av
Gressman, Herman, 3625 S Hamilton av
Griffiths, Jno. & Son (Large), 135 Adams
Guthrie, Robert M., 4209 Park av
Haeger, A., 1706 W Huron
Haigh, Jos., 204 Dearborn
Hamilton, John, 2155 W Lake
Hammond, Jno. & Co., 95 Washington
Hansen, Andrew H., 9123 Exchange
Hansen Bros., 1166 N Clark
Hansen Bros., 59 Dearborn
Haskins, John H., 846 Roscoe
Heck, Joseph D., 1211 W 104th
Heinkel, Adolph, 10437 Avenue N
Henderson, Erin D., 12134 Eggleston av
Hendry, Alex., 320 Indiana
Henney, D. W. & Co., 520 W Jackson blvd
Hibbs, Wm. R., 86 Federal
Hill, Albert, 505 E 37th
Hinchcliff, Geo. Co., 211 S Clinton
Hodges, T. M. L., 249 32d
Hoffman, W. L. & Co., 146 W 47th
Homewood, Harry, 6606 Rhodes av
Hoppe, Gustav, 2629 S Lawndale av
Horsman, Edw., 15 N Desplaines
Hough, A. G., 6750 Emerald av
Hughes, Hugh, 3336 Washington blvd
Hughes, Wm., 330 S Lincoln
Hunter, Samuel M. Co., 5643 Jefferson av
Hyink, Edw. & Bros., 444 E 43d
Industrial Const. Co., 216 N Clinton
Iverson, E. & Sons, 189 La Salle
Jackson, Wm. S., 6643 Ingleside av
Jacob, John, 1219 S Fairfield
Jeffrey, John, 79 Dearborn
Jaergermann, Aug., 840 E 75th
Johnson, Chas., 1145 W 49th
Johnson, Chas. A., 1158 Farwell av
Johnson, E. J., 1043 Newport av
Johnson, G. A. & Son (Large), 1335 N Clark
Johnson, John H., 134 Washington
Jones, Wm. R., 335 San Francisco av
Joslin, Burt B., 3833 Elmwood av
Jung, Peter F., 2246 Burling
Jyrch, Karl E., 2318 Washington blvd
Kalchbrener, Jno., 138 Washington
Kasofsky, Jacob, 1743 W Polk
Kavanagh, John, 1429 Hood av
Kayerod, William, 2449 Lexington av
Kebil, Jos. B., 120-26 Eggleston av
Ketler-, Albert C., 2946 Cottage Grove av
Killeen, John P., 4839 Augusta
Kipp, Fred., 865 Newport av
Kirsch, Fritz W., 59 Burton pl
Klassen, Michael, 2202 Orchard
Kreamer, Fritz G. H., 1356 N Clark
Kruse, F. A., 6227 Carpenter
Kumke, Paul, 5635 Loomis
Labinsky, C. W., 1920 Warner
Ladd, Edward, 5507 Iowa
Lane, A. W., 153 La Salle
Larocco Bros., 16 Laflin
Lanquist & Ilisley Co. (Large), 1100 N Clark
Lauk & Miller, 3257 Grenshaw
Layer, Frank C., 2710 S Millard av
Leafgreen Const. Co. (Large), 145 Lasalle
Leafgreen, Hans (Large), Chamber of Com.
Ledgerwood, A. J. C., 184 La Salle bldg
Lee, Jacob N., 4105 W Ravenswood pl
Legge, David E., 4646 W Ravenswood pl
Leonard Construction Co. (Large, Especially Large & Heavy Buildings)
Lewis, E. & Son, 1907 Indiana av
Lililjestrom, Aug., 5752 S Peoria
Lindstrom, F., 1052 E 47th
Lobstein, John G. Co., 1334 W 21st
Lord, Eugene L., 6731 Parnell av
Lotz, Philip, 58 Wabash av
Lowes, F. J., 375 S Clark
Lund, Abraham, 188 Madison
Lyman, James & Co., 59 Clark
Lynch, Jas. J., Chamber of Commerce bldg
McArthur, P., 361 5th av
McCarthy, J., 1504 E 56th
McCarty Bros. (Inc.), 134 Monroe
McCumber, Wm., Polk & 5th av
McDonald, D. Y., 1440 Wabash av
McDonald, Henry, 3238 5th av
McKeand, Edw., 1237 E 55th
McKeown Bros (Large), 4817 Cottage Grove av
McLachlan Building Co., Pullman av c
McLean, M. H., 4221 Lake av 112th (P)
McLennon, H., 1st Nat. Bank bldg
McNamara, M. H., 616 Blue Island av
McPherson, A. Scott, 4340 Champlain av
Major & Wheatley, 153 W 69th
Martin, G. R. & Son, 1361 N Clark
Masek, Frank, 1096 W 19th
Maurer, John E. & Co., 2804 Calumet av
Mavor, Wm. Co., 164 Dearborn
Maynard, E. W., 343 W. 64th
Meeker, Chas., 2206 Indiana av
Meiling & Walther, 84 La Salle
Menke, Hy. & Son, 112 Clark
Meyer, Herman P. Co., 412 N State
Miles, Jas. P., 27 N 45th
Moe, Ingwald, 138 Washington
Moeller, Ernst, 5920 Emerald av
Mole, Robert, 2638 Lexington
Moreland, Hugh O. Co. (Large), 97 Clark
Morley, Wm., 184 Washington
Morrice & Barron, 125 La Salle
Morrison, George, 108 La Salle
Morse, Allan C., 3503 State
Mortenson, Justus, 5625 Princeton av
Moses, C. A. Cons. Co., 138 Washington
Mueller, Carl R., 3810 Rokeby
Mueller, Herman, 3020 Pine Grove av
Mueller, Oskar, 643 Barry av
Mueller, Paul F. P., 109 Rand
Murphy, Malachi, 5315 Wabash av
Nash Bros., 84 La Salle
Nelson & Lewin, 84 La Salle
Nelson & McLeod, 84 La Salle
Newhouse Co., 115 Dearborn
Nicholson, Thomas, 138 Washington
Nielsen, S. N. & Co., 3059 Augusta
Nisbet, Alex. L., 164 Van Buren
Norwood, C. L., 620 E 39th
Ockerlund, Nils & Son, 2519 Montrose av
Olsen, Viggo F., 1415 Morse av
Olson Bros., 6501 S Peoria
Orser, D. M., 148 Lasalle
Overland & Wallace, 2332 W Ohio
Overstreet, Harry E., 115 Adams
Paddock, B. A. & Co., 115 Dearborn
Parker, John & Son, 314 S Winchester av
Pease, Frank J., 4333 Elston av
Perkins, Clarence A. Co., 3845 W Lake
Peters, A. E. & Co., 126 Quincy
Petersen, F. E., 54 E 25th
Petersen, H., 3226 State
Petersen, John P., 5541 S Halsted
Petersen, Niels H., 1310 N Kedzie av
Peterson, John & Co., 153 La Salle
Petterson, Erick G., 5762 Wentworth av
Phimster, David G., 2846 Flournoy
Pilditch, Edwin J., 7409 Princeton av
Pillinger Bros., 428 N Park av
Prendergast, T. J., 5303 Wabash
Prescher, John, 1720 Girard
Pruitt & Moore, 145 Lasalle
Puvogel & Schiddel, 935 Dakin
Ramcke, John, 2037 Seminary
Rasmussen, N. A., 1018 E 46th
Rauen, Matthew & Bro., 112 Clark
Read, Chas. H. & Sons, 159 Lasalle
Reagle, Frank A., 12145 Parnell av
Ritchie, Wm., 85 Dearborn
Rix, P. K., 4426 Cottage Grove av
Robinson, J. C. & Son, 122 Monroe
Rodatz, Jacob, The Rookery
Rosenthal, O. W. & Co., 320 Railway Ex

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Salomon, M. Co., Monadnock blk
**Salomon, W. E. & Co. (Large), 159 La Salle**
Samuelson, Andrew J., 913 Belden av
Samuelson Bros., 7018 Indiana av
Sanders, David W., 4069 Princton av
Schleyer, Chas., 6919 S Elizabeth
Schmidt, J. F. Bros. & Co., 107 Washington
Schneider, George, 2441 Wentworth av
Schoening, Wm. A., 10520 Torrence av
Schultz, Hy., 84 5th av
**Scott, John, 4211 Champlain av**
Scott & Hunter Bldg. Co., 91 Dearborn
Scouller Contracting Co., 108 La Salle
**Scown, Wm. J. Building Co., 115 Dear-**
Scribner, Gilbert H., Jr., 184 Lasalle born
Severin, N. P., 105 E Washington
Seymour, Jas. W., 1043 Washington blvd
Shank Co., 108 La Salle
Sherman, J. J., 375 Dearborn
Shields, R. P. & Son, 121 La Salle
Siebold, Fred'k A., 729 Brompton av
Siebold & Meunkirchen, 112 Clark
Simmons, J. L., 4739 W Madison
Sinclair, Jas. H., 514 S Claremont av
Skoglund, Aug. H., 4920 N Clark
Smith, R. J., 2347 W Adams
**Snyder, Jno. W. (Large), 160 Washington**
Soderlund, Olof, 3006 Cottage Grove av
Solitt, Ralph & Summers Co. (Large), 6
Sorensen, Louis, 188 Madison Adams
Spear, Henry H., 3961 W Irving Park blvd
Spiering, Edward, 97 Clark
Sproul, Elliott W. Co., 215 Dearborn
Stapleton & Buckel, 826 W Lake
Stegman, C., 4624 Cottage Grove av
Steinmueller, Louis, 1927 Hudson av
Stephens, Henry J., 3430 N Oakley
**STEWART, JAS. & CO. (Large),**
Stinton, Thos., 2746 Wilcox av Fisher bldg
Stocker, T., 759 E 39th
Strnad, Joseph, 1846 S Ashland av
Sundene, Andrew, 3902 Lowell av
Surber, Clark W., 4309 Lake av
Swanson, Jacob, 131 La Salle
Sweiberg, Chas. E., 6338 Magnolia av
Swift, Geo. B. & Co. (Large), 188 E Madi-
Tank, Henry H., 145 Lasalle son
Taylor, John R., 524 Bryant av
Theboult, Frank, 6324 Madison av
Thompson-Starrett Co. (General Building Construction), 279 Dearborn
Thomson, G. & Son Co., 145 La Salle
**Todd, Jas. & Co. (Large), 145 Lasalle**
Toney, Frank C., 6414 S May
Tregay, J. F., 2245 Walnut
Tubbs, Nathan, 21 Quincy
Tucker, Fred. J., 617 N Pine av
Tullgren, Mauritz S., 6129 S Morgan
Turnbull, G. W., 84 La Salle W
Turner, F. A., 6979 N Clark
Turner & Co., 315 Loomis pl
Turnes, W. J. Co., 167 Dearborn
Van Etten Bros., 143 E 111th
Vermeer, Richard, 5142 Lake av
Vermeersch, Emil, 2834 W Diversey blvd
Waful & Deuchler Co., 204 Dearborn
Wakefield, Ole A., 215 E Washington
Walker, Mathias, 85 Dearborn
Wallin, Peter, 320 Honore
Walsh & Masterson, 97 Clark
Walther, Ferdinand, 172 Washington
Warner Construction Co., 112 Clark
Warren Construction Co., 61 E North av
Watts, Joshua, 718 N Pine av
Watts, R. W., 4309 Berkeley av
Webb, Geo. A., 14 N Morgan
Weber, B. F. & Co., 6101 N Clark
Wedekind, Aug., 5807 Henry
Wedeles, Solomon, 4920 Ellis av
Wehrmann, Max, 274 5th av
Wehrwein, Albert C., 6428 Vermont av
Wehrwein, William G., 1251 W 73d
Weick, L. E., 2012 Cleveland av
Wells Bros. Co. (Large), Monadnock blk
Wells & Campbell, 1953 S Ayers av
Whittaker, Herbert, 3523 Archer av
Williams, M. O., 3521 Evanston
Willliams, William H., 84 Lasalle
Winterson, William, 323 N Oakley av
Wise, Emory C., 145 La Salle
Wolff, Paul T., 10258 Avenue H
Wolfinger, Clarence I. (Large), 78 Lasalle
Wood, A. E., 12 N Wood
Wood, Geo., 4540 Prairie av
Woodley, Walter, 6250 Michigan av
Woodard, J. W., 751 E 43d
World & Corcoran, 169 Jackson boul
Yawger & Co., 138 Washington
Young, Wm., 4537 Cottage Grove av
Ytterberg, Chas., 1236 W 61st
Zadeck, B. M. Co., 135 Adams
Zetterlund, Gustave, 713 Grace
Zulewsky, Jno., 5845 Drexel av

CHICAGO HEIGHTS — Fuller, Geo. H. Co.
COLLINSVILLE—Vuitech, Jos. (Large)
DANVILLE—Davis, Mitchell & Co.
Fairchild, J. N.
Gillespie, Lovell
Howell, J. W.
Krauel, F. L.
Krauel, Herman (Mason)
Moore, L. M. & Son, 820 N Vermilion
Ramsey, F. H.
Schingel, Jos., Jr.
Sheets & Ingersoll
Shields, H. A.
Yeager & Son
DECATUR—Brooks, B. S.
Parke, V. H. & Son Co.
DIXON—Baum, W. D.
Grieg, W. T.
McAlpin, W. J. (Large)
Smith, M. D.
Uhl, E. E.
Welstead, J. U.
DOWNERS GROVE—Wolfersheim, H. H.
Worley, J. W.
EAST ST. LOUIS—Bosquit, W. C.
Dunlop, O. T. Co.
Gain, E. C.
Gray, C. L. Construction Co.
Inter-State Contracting & Supply Co.
Keating
Way, Clark H.
Weber Bros. (Brick)
ELGIN—Bosch, Jno.
Boxton & Shannon
Huber, Gottlieb
Logan & Giertz
Judy Bros. (Large)
Kenyon Bros. (Large)
Lind, Jacob & Son
Marckoff Bros. (Large)
Palm, Lors Eric (Large)
Seiger, Henry W.
Villars, Jno.
Wilcox, W. G. (Large)
Wright, Jno. A.
EVANSTON—Bartlett, C. T.
Brace, L. H.
Bradford, E. K.
Bray, J. L.
Connor & McCann
Curry, T. J.
Foley, M.
Lane, Oliver
Peterson, F.
Short, John S.
Swanson, Nils & Co.
Wigginton, Jas., Oak av
FREEPORT—Ascher, Wm. (Mason)
Frisbie & Haney
Hamlyn, J. E.
Hineline, J. M. & H. H.
Kluth, August B.
Kruse, Fred. C. (Mason)
Miller, E. U.
Richter, Simon (Mason)
Rockey, Thos. U.
GALENA—Toepel Bros.
GALESBURG—Chalstran, E. A.
Dahlberg, John J. (Large)
Davidson & Rundquist (Large)
Hawkinson, Charles
Miller, Charles
Munson, P. O. (Large)
Olson, Peter T.
Ream, J. A. (Large)
Sweeney, M. E. (Large)
Zitterholm, Emil J.
GRANITE CITY—Draper, C. L.
HARVARD—Butts, Albert
Ward, W. H. & Son
HARVEY—Bloodgood, J. C.
HIGHLAND PARK—Berube, Louis N.
Clow, Fred
Laing, Edward M.
Obee, Wm. J.
HINSDALE—Bucholtz, Henry
Froscher, Adolph
Johnson, Wm. (Large)
JOLIET—Bannon, P. R.
Bryant, W. H.
Campbell, Geo. M.
Latz, Henry
Pease, S. B.
Seeley, John
Tunny, Wm.
Wenberg & Wenblad
KANKAKEE—Alberts, M., Jr.
Dufault, Nelson
Paulissen, J. P.
Root, Oakley
Stenard, E. J.
KEWANEE—Bredt, Wm.
Granquist, Nels
Gutschlag, Cove
McFarland, C. W.
LA SALLE—Burdick, L. A.
Culver, Chas.
Goodman, E. & Co.
Hartnett, Michael F.
Hoffman, Henry
Noonan, J. F.
LINCOLN—Hungerford, W. (Large)
Simpson, J. A. (Large)
MATTOON—Capen, A. T.
Loomis & Rose
MENDOTA—Bierworth, H.
MOLINE—Brandt, Swan J.
Carlson, Axel
Gust, Ed. & Sons (Large)
Heaps, Clarence E. (Large)
Huich, C.
Lorenz, Paul H.
North, Chas. C. (Large)
Peterson, Peter (Large)
Peterson, Oscar & Co.
Safe, August
MONMOUTH—Cochran, A. W.
Davis, Geo. B.
Duan, A. W.
Feilman, W. E.
MURPHYSBORO—Smith, A. L.
NEWMAN—Vermillion, Wm. J.
NORMAL—Sylvester, Thos.
OAK PARK—Bedard & Morency Mill Co.
Bernard, J. & Co.
Cameron's, W. H. Sons (Masons)
Caron, August S.
Goetter & Hillman
Harper & Buttendorf Co. (Masons)
Schroeder, Henry J.
Sias & Grenfell
OTTAWA—Eichelkrout, Chas.
Glen, John (Mason)
Kerste, August
McCormick, John C.
Sanders Bros. Mfg. Co.
Schnierding, E. C.
Sinnott Bros.
PAXTON—Denman, D. D.
PEKIN—Albrecht, E.
Conklin-Reuling Co. (Large)
Evans, Henry
Jansen & Zoeller (Brick)
Lampitt & Lampitt
Saal & Brooking
Skaggs, J. M.
Zimmer, E. & Co.
PEORIA—Allen, Wm. M. Son & Co. (Large),
Bashell, A. A. & Son Woolner bldg
Benson, Walter F., 1203 4th av
Coleman, A. & Sons, 802 E Nebraska av
Coleman, W. H. Contracting Co. (Large),
Crescent Contracting Co. 802 Main
Fardon Bros., 111 N Glendale av
Flinn, John L. (Large), 124 S Washington
Hoffman, Louis J.
Jobst, Jacob J., Masonic Temple
Jobst, V. & Sons
Kammerer, Charles, 815 5th av
McDonald & Co.
Meuitz, Fred
Schwerm, J. H. William (Brick & Stone)
Seehaas, William F., 926 Main
Thompson, Almon D.
Wall, Wm. G. & Son, Aiken av nr Sterling
PERU—Boeckling, C. M. av
Elderbrook & Hoschitt
Koehler, Fred'k A.
POLO—Ruth, T. P.
PRINCETON—Hed, John
Nelson & Swanson
Omer, Charles
Stein, Henry
QUINCY—Brinks, Henry, 521 N 16th
Buerkin & Kaempen (Large), 500 6th av, S
Dieker & Son, 916 Jersey
Dunker, Jos. H., 1103 Lind
Fick, Adam, 416 S 10th
Heidbreder & Weiss, 1405 Ohio
Konefes & Son (Brick), 206 S 12th
Lange, Geo. & Son (Large), 813 S 11th
Lux, Ernst, 601 S 12th
Menke, F. W. Stone & Lime Co. (Large)
Roehl, Anthony M. (Large), 1606 Spring
Schmits, Gerhard, 1137 N 11th
Schutte, Wm., 830 Adams
Shanahan, James J., 732 Jersey
Steinbach Bros. (Large), 219 Jersey
Vonderhaar, Geo. C. (Brick), 1330 Spring
ROCK FALLS—Burdick, Chas. (Mason)
Burdick, Warren (Mason)
Jansen, Peter
Miller, John
ROCKFORD—Ackerson, Nels
Alberts, A. E.
Alberts, W. L.
Alexander, J. F. (Mason, Large)
Baker, Otho
Blomberg, E. E.

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Boden, Andrew T.
Carlson, David (Large)
Carlson, J. A. (Mason)
Clarke, T. H.
Clikeman, S. D.
Clubb, Alexander (Mason, Large)
Cook, Wm. H. (Large)
Curren, T. F.
Dinnie, John (Large)
Edstrom, G. A.
Ennett Bros. (Masons, Large)
Fosberg, Nels
Grimes & Sullivan
Gripp Bros. (Masons)
Gustafson, S. F.
Holm, Gust. (Large)
Keyt, W. A.
Larson, Alf. G. & Co. (Large)
Lint, Christ. (Large)
Lofgren & Nelson (Masons)
Lyddon, B. Arnold
Lyddon, B. R.
McEachran, Hugh
McKenzie, G. T. (Mason)
MacKenzie, Roderick (Large)
McLee, John (Large)
Maffioli, G. Son (Masons, Large)
Maffioli, Henry (Mason, Large)
Morsheno, J. H.
Newbury & Co.
Nygren Bros.
Olsen, J. G. & Son
Palm, J. A. (Mason, Large)
Pearce Bros. (Large)
Roberg, W. P. W. C.
Schrueling & Broitzman (Large)
Sundstrand, L. G.
Van Alstine & Co. (Large)
Winchester, Thos. (Large)
Woodward & Newcomber

ROCK ISLAND—Anderson, Aaron
Anderson, Ans
Blankenburg, Gustaf
Bleuer, Frank
Chambers, F. M.
Collins Bros. (Large)
Hohenboken, Dietrich
Horst, Henry W. (Large)
Hudson & Collins (Large)
Kennedy, David J.
Kononsky, John H.
Lange & Tonn
Leaf, John G.
McConochie, Wm. & Sons (Stone & Brick)
Paulsen, Henry F.
Sievers, Jasper
Tappendorf, Henry
Verhale, Modest A.
Volk, Jno. & Co. (Large)

SPRINGFIELD—Ballee, H. C.
Black, C. W.
Coffin, J. B.
Gehlman, Fred'k
Howard, W. M.
Irwin, L. L. (Brick)
Lorscheider, Joseph
Sime, John

STERLING—Beecher, Abner
Capp, James A.
Danreiter, Percy
Hess, Eli
Little, Lincoln (Mason)
O'Hare, Denis (Mason)

STREATOR—Corniskey, E. J.
Cool & Stahl
Johannsen, S. C.
Johnson, Oscar
Morgan, T. S.
Schlachter, Philip, Jr.

SYCAMORE—Anderson, A. W.
Quist, Samuel

WAUKEGAN—Brean, Geo. H.
Patterson, H. C.

## INDIANA.

ANDERSON—Bickham, F. M. (Stone)
Brookins, J. H.
Campion & Wyant
Daniels, Chas. H.
Eshelman & Son
Kelly, Thos. P.
Lyst, E. E.
Savage, Chas. M.
Thompson, W. E.
Wright, H. C.

ANGOLA—Maxwell, W. H.

BRAZIL—Fitzpatrick Bros.
Hadley, Geo. W.
Hawkins, Harvey
Hawkins & Hawkins
Stonehart, A. F.
Tiefel Bros.

COLUMBUS—Davis, Folger & Co.
Evans, Chas.
Everrond, Wm. & Son
Hege & Co. (Large)
McCormack, P. H. Co. (Large)
Robertson, Geo. M. & Co. (Large)

CONNERSVILLE—Newman, Geo. S.
S. & J. Mfg. Co. (Large)
Sylvester, E.

COVINGTON—Brown, Chas. A.

CRAWFORDSVILLE—Bishop, J. M.
Carr, W. C. & Son
Doyle, Albert R.
Irwin, O. C. & Co.
Johnson, John
Morrow, E. M.
Nolan & Slattery
Pennefather, E. J.
Richard, D. L.
Shelley, Geo.
Speed, Sidney
Stout, Geo.
Waugh, Jas. M.
Wert, M. V.

DELPHI—Clauser, W. H. & Sons
O'Connor, Jno. C.

ELKHART—Bushnell, G. B. & Co. (Large)
Duncan, G. I.
Helpin, Frank
Kautz, Louis M.
Kistner, Geo. C. (Large)
Moyer, A. H.
Pletcher, Jno. A.
Thomas, Fremont
Welter, L. H.
West, William
Yost, John

ELWOOD—Digel, S. H. (Stone)
Douge, L.
Hicks, W. R.

EVANSVILLE—Abeler, William
Anderson & Veatch
Boehne, John F.
Bippus, Jacob & Son
Butsch, Philip
Detroy, Jacob
Gibbs & Bright
Goodge, G. W. & Son (Masons)
Gosser, G. W.
Hoffman, B. F.
Hoffman, M. J. Construction Co.
Kanzler, Chris. & Son
Kirves, C. F. & Son
Koch, John
Koch & Griesbacher (Masons)
Meier & Nickens (Masons)
Moers & Kessler (Masons)
Padgett, E. D. (Mason)
Scarborough-Davies Co.
Voelkel, Jacob
Tate, George

FORT WAYNE—Bartenick, Wm.
Boester, Fred. H.
Borkenstein, Bernard
Breimeier, E. H. F. (Mason)
Brown, J. O.
Buesching, Hagerman & Co. (Masons)
Coblentz, F. E.
Delagrange, L. C.
Ehle, E. C. & Son (Masons)
Ehle & Hargenroether (Masons)
Franke, C. H.
Fuhrmann, Wm. J.
Gallmeier, Wm.
Griffith, J. M.
Grotholtman, H. A.
Henry, James M.
Hilgemann Bros.
Hockemeyer, H. C.
Irmscher & Westhoff (Masons)
Kanning & Hachmeier (Masons)
Kinder, Michael
Kinder, Paul P.
Kintz, A. W. & Son (Masons)
Liebman, E. F.
Mollet, H. L.
Nassenstein, Wm.
Rump, Fred. J.
Snook, Tom
Snook, Zachary
Suelzer, John
Wehrenberg, Henry (Mason)
Wermuth, Chas. R.

FRANKFORT—Frankfort Brick & Cons. Co.
Frankfort Construction Co.
Kelleher & Slipher
Ross, Jno. A.

FRANKLIN—Ferguson, Ashley

GOSHEN—Hatch, W. W. & Son Co.
Isbel, M. F.
Miller, Frank I.
Myers, John D.

GREENCASTLE—Graham, R. S.
Parker, Green B.
Torr, J. C. & Co.

GREENFIELD—Fry, J. L.
Knight, J. P.
Smith, Marshall T.
Vaughn, W. N. & Co.
Willey, Arthur A.

GREENSBURG—Foley, Edward
Lowe & Craig

HAMMOND—Blaemine Bros. (Stone)
Brenkus, Jos.
Gaskill, Denton L.
Moser, Peter
O'Shea & Shea
Parker, Wm. W.
Zimmerman, Richard

HUNTINGTON—Keefer & Bailey

INDIANAPOLIS—American Construction Co.
Banks & Co., 620 Mass. av
Baumann, A. & Son, 1818 Singleton
Baxter, J. V.
Beard, Alvin G.
Bedford Stone & Construction Co., Traction Terminal bldg
Bender, Conrad
Brandt Bros., Builders' Exchange
Bruner, A. & Co. (The)
Buck, C. C.
Cash, Richard M.
Clements, George
Clifton, Jno. & Son, 20 N Meridan
Cochrane, S. W. & Son
Cornelius, Henry D.
Cotton, M. M.
Culbertson, John D., 203 N Warman av
Despo, A. O.
Dunn Bros., 2305 W Michigan
Elder, Robert L.
Elliott, J. T.
Ent, Harry A.
Faught, A. E.
Hackedorn Contracting Co.
Halstead, W. C. & Co.
Hamilton, Chas. L.
Henschen, Harry C.
Hogan-Carse Construction Co.
Honecker, Louis C.
Hoosier Construction Co.
Hoss, J. D. A.
Jose, G. C., 1714 Orange
Jungclaus, Wm. P. Co., 825 Massachusetts av
Klattau, Wm.
Kennedy, Benj. C.
Kennedy, C. R.
Kennedy, Omar R., 2924 Central av
Kennington, John R.
Kiel, Henry C.
Lovett, Chas. H.
Luebking, Wm.
Miller Bros.
Milliken, I. W.
Moon, Clarkson H.
Mason, John P.
Mosley, Alvin O.
Noe, Nicholas M.
Nuerge, Chas. & Co.
Pease-Buzatt Construction Co.
Pence, Geo.
Reinking, H. E. & Son
Roberts, J. H.
Schreiber, Fred
Scott, David I., 924 E Washington
Scott, W. P., 133 W Court
Shallenberger, Alex.
Shover, Oran D.
Stewart, John
Tjelking, H. W.
Trefz, Wm. J.
Twinane, John I. & Son
Vincent, W. H.
Volpp & Fritz
Ward, Carey J.
Warren, John R.
Weaver, Geo. A.
Weddle, Andrew D., 3320 N Illinois
Wehking, Chas. F. Co. (Brick), 124 Olive
Wolf & Ewing
Yaryen, J. J.
Yawger, A. J. & Co.

JASPER—Schmidt, John M.

JEFFERSONVILLE—O'Neil, Thos.

KOKOMO—Bion, Frank
Dixon, Hunt
Donnelly & Kellar (Paving)
Moore & Danner (Large)
Watson, J. H.
Williams, J. S.

LAFAYETTE—Bals, Fred. C.
Boyer, S. H. P.
Budge, Henry (Concrete Construction)
Chew, Joshua (Brick & Stone)
Cors, Adam
Frey Bros. & Co.
Herzog, Geo. P.
Kessner, Henry Lumber Co.
Levandouski, Peter
Pfrommer, George J.
Sense Bros. Co.

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Stevenson, Albert E. (Brick)
Stillwell, William F.
Taylor, Henry Lumber Co.
Western Construction Co. (Paving)
LA PORTE—Bloomquest, Victor
Brockmann & Schneider
Lambert, Samuel A.
Larson-Danielson Const. Co.
Struss, Chas. (Mason)
Vankirk, Jno. P.
Wainscott, Jos.
LEBANON—Busby, G. W.
Miller, Tom. J.
Shahan & McCarty
Swiggert, Perry C.
LOGANSPORT—Barnes, Jas. I.
Boyer, A. S.
Casparis Stone Co. (Stone)
Medland, Frank
Medland Bros.
Donat, Wm. A.
Forsee, John, Sr.
MADISON—Cassidy, T. W.
Kirk, Wm.
Schofield Contract Co. (Not Inc.)
White, James
MARION—Barley, C. W.
Barnes Bros.
Benner, F. M. (Stone)
Johnson, L. J.
Michaels & Minnick
Peele, Pasco
Simmons, O. J.
Tjulander, Edward
Yates, Wm.
MICHIGAN CITY—Harbart, A. F.
Koellen, Henry
Ohming Bros. (Brick & Stone)
Ohming, Wm., Sr.
Pepple, G. W.
Roellen, Henry
Schneider, Aug.
MUNCIE—Glass, Lee M.
Gubbins, Jno.
Hager, O. J.
Hathaway, Marion
Higman, Geo. H.
Illingsworth, Fred. & Co.
Kiser & Williams
Leonard, J. C.
Ludlow, J. B.
NEW ALBANY—Baker & Brooks
Beeman & Schefold
Mann, Jno. W.
NEW CASTLE—Cook, D. K.
Elliott, S. H. & Son
Faust, Samuel
Garvey, Jas.
Martin Bros.
Moore, B. F.
Neff & White
New Castle Cons. Co.
Richardson, C. J.
Scott, Wm.
NOBLESVILLE—Adkins, John
Durfinger, John W.
Heinzmann Bros.
NORTH VERNON—Anderson, Theobald & Co.
Brolley, Thos. W.
Deputy Bros. & Wagner
Hicks, E. & Co. (Concrete Masonery)
North Vernon Lumber Co. (Large)
PERU—Bruck, Anthony J.
Goddall, J. B.
Theobald, Jacob
RENSSELAER—Coen & McColby
Donnelly Bros.
Warren, E. G.
RICHMOND—Benfeldt, Z. & Son
Dietrick & Hasleoster
Hodgin, Jos. N.
Lamb, Chas.
Long, John (Mason)
Miller, Oran A.
O'Lank & Jenling
ROCHESTER—Caffyn & Carter
Hoffman, Fred.
RUSHVILLE—Kelly, Robert
Redman, W. M.
Walker, Edgar
Winship, Morris & Son
SEYMOUR—Davis & Godfrey
Degolyer, James
SHELBYVILLE—Ballard, A. B.
Bols, Marion
Gunn, Curtis (Cement)
Powell, J. E.
Walton, Geo. R.
SOUTH BEND—Buchanan, Geo. J. (Mason)
Burner, E. & Co.
Christman, H. G. & Co. (Large), 125 S St.
Co-Operative Cons. & Building Co. Joe
Eckler Mfg. Co. (Large)
Duck & Marger (Masons)
Gunderman, G. J.
Hickey, Louis A.
Hoffman, Geo. J. Co.
Indiana Lumber & Manufacturing Co., 742
Kemble, Harry S Michigan
Kemble & Kuehn
Metzler & Good
Miller & Donahue Co.
Myers, John H.
Neitzel, B. H., 713 W La Salle
Nelson, John
Neuwerth, A. H.
Palmiter, M. J. (Mason)
Sieg, Christian
Staley, E. T. (Mason)
Stahley, W. H.
Vermande, John C. (Mason)
Yant, John (Mason)
SPENCER—Babbs, Geo. R.
SULLIVAN—Nichols, J. F. (Brick)
TERRE HAUTE—Abbott, C. W. (Mason)
Central Mfg. Co.
Coffin, J. K. (Common)
Houff, A. Dale Co.
Kennedy-McGinnis-Whitlock Co. (Concrete)
Kintz, P. C. & Sons
Martin, T. J. Co.
Miller, Jacob W. & Son
Modern Construction Co.
Roehm Bros.
Kintz, R. H.
Pierson, S. E.
Haring, Anton
Ohm, August
Parker, T. A. & Co.
Roberts & Co.
Wabach Construction Co.
White, Wm. J.
TIPTON—Bowlin, M. L.
Henry, E.
Pope, Aug. H.
Porter & Bowlin
Roode, F. M.
UNION CITY—Hoke, J. S.
VALPARAISO—Dickover, C. W.
Smith Bros.
VINCENNES—Clark, J. M.
Combs, A.
Fries, Jas. (Brick)
Katzorke, Frank
Kellar, John
Sparrow, Geo.
WABASH—Hipskind, Jno. & Son
Showalteo, Daniel
WARSAW—Frusch, J. P. & Son
WASHINGTON—Brown, R. A. & Co.
McKernan, Hugh
WINCHESTER—Moorman & Goodrich
Sanders, A. E.

## IOWA.

ATLANTIC—Aldrich, J. B.
Dennison, Samuel
BOONE—Samuelson, E. H.
BURLINGTON—Anderson, C. A.
Beck, H. A.
Binder, Geo. W.
Bokenkamp, Henry
Burlington Construction Co.
Dalgleish, W. S.
Gilbert-Hedge Lumber Co.
McLain, J. W.
Miller, Louis J.
Pearson & Son
Woodcock, Clarence
Young, N. L.
CEDAR RAPIDS—Bartlett & Kling (Large)
Edinger, Edward (Stone)
Loomis Bros., Kimball bldg
Wallace, R. A.
CENTERVILLE—Centerville Brick & Material
CLARINDA—Crabill, J. M. Co.
Welsh, W. W. (Large)
CLINTON—Curtis Bros. & Co.
Ingwerson, Borheck & Co.
Lake, John & Son
COUNCIL BLUFFS—Anderson Bros.
Consolidated Construction Co.
Herman, F. L.
Jensen, Nels (Mason)
Jensen Bros.
Liles & Pennell
Norgaard, C. C.
Peterson, Peter
Rasmussen, Nels
Reynolds, S. W. & Son
Saguin, James (Bridge)
Schneider, Thos. H. & Co.
Wickham, Jas. & O. P. (Large, Brick, etc.)
Wind, P. H.
CRESTON—Creston Planing Mill
Young, Chas. C. (Large)
DAVENPORT—Arnould, Alphonse A. (Large)
Coen & Conway (Large), 320 Division
Carstang, Valentine & Co. (Brick), 1540 W
Ehmke, P. H. 2d
Jensen, Fred.
Nebergall, J. Frank, 2212 Grand av
Osborn, C. Edwin, 1221 Harrison
Peters, John, 1320 Warren
Phillips, H. W.
Pyle & Puls (Brick)
Soller, John
Strohbehn & Sons
Tri-City Construction Co. (Large), Masonic
Volquardson, H. Temple
Westphal, Wm. August F., 1323 Brown
DES MOINES—Benson & Marxer
Cram, Frank, 505 Grand av
East Side Carpenter Shop
Herrick, O. P., 109 Locust
McGorrisk, Wm.
Magden & Sheeley, Clapp blk
Maine, Jas. & Sons Co., 119 8th
Mitchell, W. F. & Co., 116 8th
Stark, N. M. & Co. (Bridge)
Turner-Roland Co.
Tusant, J. E., 580 7th
DUBUQUE—Burt, C. & Son (Brick)
Byrne & Sane (Masons)
Ellis & Woodrich (Brick)
Keeler & Luckerham (Brick)
Lee, James & Son (Paving)
McEvoy Co. (Brick)
Ney, Albert
Schulte, B. & Son
Skemp, Chas.
Wagner, Henry
EMMETSBURG—Dooley, Jno.
Wells, Patrick R.
FORT DODGE—Anderson, A. P.
Boyer, J. W.
Grosklaus & Kehm (Masons)
Hansman, F. J. & Co.
Steinley & Kehm (Masons)
FORT MADISON—Brandenberg & Currie
Hansman, F. J. & Co.
Nieters, Jos. H.
Rissinger, W. A.
Smith, A. W.
GLENWOOD—Tipton, John H.
GRINNELL—Coutts, R. G.
GRISWOLD—Huckins, E. G.
Reed, E.
HAMPTON—Bailey, H. L.
Crawford, B. L.
Hunt, Samuel
Johnson, J. W.
Kibbs, A. J. (General)
Roberts, Stewart
Sargent, G. E. (General)
Simonson, C.
Wheeler, F. F.
HARLAN—Larson Bros.
IOWA CITY—Metzinger, J. W.
Rowson, Jas. & Son
KEOKUK—Cameron, McManus & Joyce
Dollery & Wooley
KEOSAUQUA—Prall & Vance
OSKALOOSA—Carlon Construction Co.
OTTUMWA—Ottumwa Mill & Cons. Co.
SHENANDOAH—Dunnegan, J. J.
Wright, T. B.
SIOUX CITY—Short, B. E.
WATERLOO—Blackhawk Const. Co.
Chapman, F. W.
Lauritzen, L. J.
Main & Son
Miller, J. G.
Shippy & Burke
Wasson, Chas.
Werner, C. H.
WEBSTER CITY—Zitterell, W. J. (Large)

## KANSAS.

ATCHISON—Seip & Co.
EMPORIA—Barthel Co.
Lewis, L. W. (Stone)
FORT SCOTT—Coe, Elmer
Keplinger, A. L.
HUTCHINSON—Campbell, J. H.
Harmony, Jack
Hutchinson Lumber & Planing Mill Co.
McDonal, H. C. (Mason)
Shears, J. H. & Son (Masons)
INDEPENDENCE—Addington, D. M.
Bender, F. N.
Philbrook & Stanton
Riney, Wm. B.
JUNCTION CITY—Cook, W. W. & Son
Zeigler Bros.
Ziegler & Dalton
KANSAS CITY—Hillenbeck, E. B.
Hitsch, Carl
Johnson & Brown
Lusk, J. N. & Son
Phillips, G. W.
Ronderbuch, G. G.
Taylor, J. W.
Thompson, F. A.

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LAWRENCE—Carter, W. R.
Kaufman & Honey
Nadelhoffer, Wm.
Stubbs, J. E. Construction Co.
LEAVENWORTH—Mexos (The)
Stanton, M. & Co.
Willcott, John
Yoakum, R. B.
MANHATTAN—Manhattan Const. Co.
OLATHE—Bushong, E. E.
West & Ekengreen
PARSONS—Cramer, Wm.
Medaris, C. F.
PITTSBURG—Massman, Fred.
TOPEKA—Barber & Mills (Masons)
Betts, J. B.
Blanch, Frank
Clark, E. F. A.
Council, M.
Douglas & Evans
Heery, Michael
Kellar, N. E.
Lardner, James (Mason)
Marshall, J. B.
Mull, N. W.
Nelson, J. A. (Mason)
Plank, M. C.
Sheloske, Robert & Sons
Spencer, F. M.
Swanson & Sons
Tulien & Bro. (Masons)

## KENTUCKY.

ASHLAND—King, J. M.
Standard Planing Mill & Bldg. Co. (Large)
COVINGTON—Boyd, Mandreville
House, C. W.
Jones, John
Keefer, Geo. W.
Kieley & McDermott
Northcutt Bros.
Pohlkamp, H. & Son
CYNTHIANA—Karrick, A. C.
Poindexter, J. R.
Raymond Bros. Co.
DAYTON—Smith Contracting Co. (The)
HENDERSON—Bailey & Koerner
Clark, R. M.
HORSE CAVE—Owens, Clarence
LEBANON—Carter, R. H.
LEXINGTON—Batesman, W. M.
Combs Lumber Co. (Large)
Corbin, Frank
Curran, Wm. & Son, 162 N Limestone
Dalton, F. R.
Hulett, F. H.
Lexington Lumber & Mfg. Co.
LOUISVILLE—Bailey & Koerner, 31st & Market
Barnes, R. A.
Bartman, Chas.
Bicker, Jos.
Breslin Bros.
Carter & Carter
Chreste, John
Figg, L. R.
Gregory, Dudley (Brick), Tyler bldg
Greiner, John
Greiner, Tobias
Hall, C. S. & Co.
Hercules, Geo.
Jeunessee, R.
Just, L. & Co.
Keller, Louis & Son
Kentucky Construction Co.
Kilgus, Christ. F.
Kuadler & Fraucke
Markham, A. & Co. (Inc.)
Minor, J. S. & Son
Rommel Bros., 915 E B'way
Sebler, Jos. & Co.
Southern Building Co.
Steward Bros. (Carpenters)
Steward Bros. (Construction)
Weatherton, Thos. J.
Willett, D. J.
MAYFIELD—Mellett, W. B.
Hord & Farrow
Dea, John V. & Co.
McDowell & Cass
NEWPORT—Allen, H. F.
Covington Const. Co.
Theile, Henry
Wilson, L. H.
Wright, James C.
OWENSBORO—Bosley Bros.
Owensboro Planing Mill Co.
OWINGSVILLE—Palmer, Oscar
PADUCAH—Agnew, J. W.
Coleman, C. A.
Murray, Arthur (Brick)
SHELBYVILLE—Craig, J. M.
Gruber, L. H. & Sons
WINCHESTER—Clark Construction Co.
Jones, J. H.
Lucas, H. V.
Powell, N. A.
Wheeler, J. W.

## LOUISIANA.

BATON ROUGE—Kroger, John B.
MONROE—Paillet & Kirk
NEW ORLEANS—Baehr, John, Jr.
Booth, Thomas
Borne, Benj. W.
Dameron & White, Hennen bldg
Gardner, J. H. Cons. Co., 505 Tchoupitonlas
Glover, Geo. J. (Office, Railway & Manufacturing Buildings), Hibernia Bank & Trust bldg
Grimm, H. F.
Hebert, E. A.
Huber, Geo. W.
Huet, Max
Inter-State Construction Co.
Jefferson Construction Co. (Not Inc.)
Jones, Fred. A. Building Co. (Engineers & Builders)
Lagasse, Paul
Lagman, J. V.
McCarthy, Richard, Jr.
Markel, Jules W.
Meyer, Henry C.
Morse, Abram H.
Muir & Fromberz (Large), 211 Camp
Ridgeley Bros.
Rodrick, John A.
Sarre, Wm. A.
STEWART, JAS. & CO. (Large), Hibernia Bank bldg
Stone, John C. (Ltd.)
Tranchina, D. & G.
Van Meter, W. W.
Walther, Otto, 313 St. Charles
SHREVEPORT—Chatwin Bros.

## MAINE.

AUBURN—Keene, Fred. W.
Shaw, David T.
AUGUSTA—Burns, Ernest H.
Fletcher & Robbins
Greenleaf, John & Son
Jackson, Wm. W.
Jewett & Hanson
Nichols, J. M. & Co.
Rollins, Thos. M.
Wellman, Frank R.
BANGOR—Carter, J. T.
Cowan & McCarthy
Cutter, L. W.
Eastman & Emerson (Masons)
Flanders & Son (Masons)
Gatchell, E. B.
Matheson & Frazier
Nelson, Otto
Sawyer, W. N. (Mason)
Ward & Clough (Masons)
BAR HARBOR—Bunker, David A.
Hapworth, Hubert E.
Savage, Fred. L.
Shea Bros.
Small & Ingalls
Whittaker, E. H.
BATH—Bishop, Daniel A.
Frederic, H. F.
Minot, A. M.
Trask, A. G.
BELFAST—Parker, Israel W.
Pottle, Nathaniel J.
BENTON STATION—Brown, J. E.
BETHEL—Merrill, Edmund
Tuell, Gilbert
BIDDEFORD—Allen, Isaac A.
BLUE HILL—Mason, Frank L.
BOOTH BAY HARBOR—Dodge, C. F.
Holton, W. R.
Searey, John
BREWER—Copeland, S. D.
BRUNSWICK—Gahan, William P.
Sawyer, James E.
BRYANTS POND—Bacon, H. A.
CAPE NEDDICK—Phillips, Edward H.
Stover, Howard M.
Winn, Sidney D.
CARIBOU—Astle & Page
Ireland, A. F.
CASTINE—Gardner, J. C. M.
CENTER LOVELL—Russell, Benj., Jr.
CHARLESTON—Brooks, E. R.
CHEBEAGUE ISLAND—Hamilton, Howard S.
CLINTON—Kidder, W. H.
COLUMBIA FALLS—Peterson, P. B.
CORNISH—Bradley, John
CUMBERLAND CENTER—Merril, Wallace L.
Frank, L. A.
DETROIT—Harris, Chas. T.
DIXFIELD—Eastman, W. O.
EAST LEBANON—Gerrish, F. H.
EAST MACHIAS—Foster, James A.
Hall, Chas. L.
EAST MONMOUTH—Perkins, B. J.
FALMOUTH FORESIDE—Randell, L. L.
FORCROFT—Atwood, Samuel F.
Brown, Walter L.
FRIENDSHIP—Mitchell, John D.
Murphy, Burt A.
FRYEBURG—Shirley, Eldon E.
FRYEBURG CENTER—Emerson, J. E.
Farrington, C. W.
GUILFORD—Seabury, Stanley E.
HAINES LANDING—Walker, W. F.
HALE—Walker, W. F.
ISLESBORO—Pendleton, A. A.
ISLESFORD—Bryant, A. J.
JONESBORO—Fish, Chas. E.
KENTS HILL—Lovejoy, H. W. S.
KEZAR FALLS—Palmer, W. H. & Son
KINGSFIELD—Hinds, A. V.
KITTERY POINT—Raynes, Daniel
Davis, W. L.
Dionore, Emerich
Leave, Geo. W. (Mason)
Lemieux & Chevalier
Libby, Wm. A. & Son
Roy, Ely
Sauciers, Thos.
White, J. W. & Co. (Mill)
LISBON FALLS—Blethen, W. D.
Philbrook, Jos. & Son
LITTLEFIELD—Silver, A. H. & G. T.
LIVERMORE FALLS—Farrington, Jos. H.
Greenwood, E. H.
Holley, A. L.
LOVELL—Brown, W. O. & Son
LUBEC—Trecartin, Frank W.
MANSET—Dolliver, B. T.
MILBRIDGE—Leighton, Lincoln H.
Strout, Leverett
MILLINOCKET—Rush, Frank W.
MONSON—Smith, Percy
MOODY—Hilton, Benj. H.
Hilton, Harvey A.
NAPLES—Morris, Edward E.
NEWPORT—Josslyn, Joseph L.
Newcomb, Chas. F.
NORTH BERWICK—Goodwin & Gerry
Littlefield, W. B.
NORTHEAST HARBOR—Lamson & Hodgdon
Ralph, I. E.
Soulis, James H.
Wilson, L. A.
NORTH HAVEN—Calderwood, Henry E.
Lermond, O. D.
NORWAY—Pike, Horace
OLD TOWN—Wilbur, G. H. & Son
OQUNQUIT—Littlefield, David M.
Littlefield, W. C.
Perkins, Moses S.
ORRS ISLAND—Wilson, Lewis A.
PEMAQUID—Hawes, E. A.
PHILLIPS—Sargent, Samuel J.
PORTLAND—Anderson, Oliver
Bean, Thomas C.
Brett, Jos. K.
Bruns, Neils A. N.
Bryant, C. W.
Blackstone & Smith (Masons)
Burrowes, John W.
Burrowes, William
Cann, W. L.
Cobb & Webster
Cunningham & Sons (Masons)
Cook, Norman H.
Dellatorre, Norman A. (Mason)
Dunscombe, Wm. J. (Mason)
Fillmore, David K.
Hauson, Charles A.
Hayden & Dingwell
Hunt, Enoch W.
Howatt, C. B.
Johnson, E. G. & Co.
Johnson, Everett C.
Lewis, Wm. E.
Littlefield, Robert B.
Livingstone, Philip
Lowe, Robert B.
Mahoney Construction Co. (Masons)
McCausland, W. B.
Marland, Geo. A. (Mason)
Pollard, W. H.
Rackley, John W.
Redlon Co., N. E. (Masons)
Rich, Rufus E.
Robinson, W. C.
Rogers, Spencer & Son
Russell, E. E.
Shortill, James A.
Shanahan, R. D. (Mason)
Smith & Rumery Co.
Swanhelm, Karl F. A.
Willis & Rumery
Wilson, A. C.
PRESQUE ISLE—Smith, Chas. H.
PRINCETON—Mercier, J. B. & Co.
PROSPECT HARBOR—Chase, E. D.
PROUTS NECK—Googins, Alonzo L.

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RANGELEY—Hoar, Anson M.
Jacobs, Frank
RAYMOND—Strout, Fred L.
READFIELD—Sedgeley, F. C.
RIDLONVILLE—Dunn, Isaac H.
ROCKLAND—Fale & Simmons
Sherman, Geo. A.
Stanley, F. A.
Ulmer, C. E.
SACO—Chellis, A. L.
SANGERVILLE—Rollin, F. E.
SCARBORO—Higgins, Walter S.
SEAL HARBOR—Candage, B. W. & Sons
SEARSPORT—Wentworth, Edwin J.
SKOWHEGAN—Clough, Wm. A.
Purington, Horace Co. (Large)
Reed, Horace E.
SMALL POINT—McIntire, C. H.
SORRENTO—Foster, N. P.
SOUTH BRIDGETON—Gamage, Warren L.
Johnson, D. C.
SOUTH BRISTOL—Gamage, L. A. & Son
SOUTH FREEPORT—Curtis, Reuben B.
Jones, H. E.
SOUTH HANCOCK—Smith, Rodman C.
SOUTH PARIS—Murch, J. M.
SOUTH PENOBSCOT—Gray, W. L.
SOUTH PORTLAND STATION—Dyer, C. G.
Forgume & Romana
Hoyt, Jas. D.
Marshall, Frank H.
Newell, Hubbard F.
O'Neil, James H.
Paige & Conary
Rowe, Ansel B.
SOUTHWEST HARBOR—Tracey, Henry
SOUTH WINDHAM—Files, Herbert G.
SPRINGVALE—Chamberlain, F. J.
STANDISH—Elwell, W. H. C.
SULLIVAN—Workman, Henry S.
THOMASTON—Beverage, John T.
TREVETT—Gove, Allen
UPTON—Abbott, Hallis I.
WATERVILLE—Cary & Parent
Fitzgerald, Geo. W.
Harris, John A.
Kidder, Chas. B.
Witham, E. Payson
WAYNE—Berry, J. B.
WEST HARPSWELL—Merriman, Leon B.
Randall, Wm.
Stover, Calvin F.
WEST JONESPORT—Noyes, W. L.
WEST KENNEBUNK—Clark & Jones
Grant, Randall J.
WEST TRENTON—Hopkins, E. A.
WINTER HARBOR—Grover, Chas. E.
Joy, Fred. V.
Smallidge, J. L.
Weston, Frank E.
WINTHROP—Bishop, Frank I.
Stevens, H. W.
YORK—Goodwin, E. Everett
YORK BEACH—Bean, M. Q.
Leavitt, F. P.
YORK CORNER—Brewster & Grant
Booker, S. B.
YORK VILLAGE—Balentine, Elijah
Sewall, Noah M.

## MARYLAND.

ANNAPOLIS—Evans, Geo. W. & Co.
Feldmeyer, Wm. E.
Gardner, Wm. B.
Parkinson, E. E.
BALTIMORE—Armstrong & Lalta, American
Bennett, B. F., 123 S Howard bldg
Brady, Edw. & Sons (Large), 1109 Cathedral
Brady, J. P.
Brown, Harry, 109 Clay
Brown, Leonard
Bunnecke, Geo. & Son, 305 St. Paul
Butzler, Wm. & Co.
Callaway, Frank H.
Davis, Jacob C., Jr.
Davis, Milton C., 15 E. Fayette
Decker, Fred & Son, 1200 E Biddle
Flagg, Wm. F.
Forrester, John R.
Graf, Conrad
Grempler, Henry M.
Heath, Geo. R.
Herbold, Chas. & Sons
Hiltz, John & Sons, 3 Clay
Hopkins-Barnett Co.
Hughes, John Jr.
Hyatt, Gouverneur
Jefferies, Geo. R.
Locke, Thos. F.
McKnight, John
McLean Contracting Co.
Miller, J. Henry (Inc.)
Monmonier & Sorrell
Moran, John A., 915 Park av
Morrow Bros. (Large), 218 W Saratoga
Moylan, John J.
Noel Construction Co. (Large), U. S. Fidelity & Guaranty bldg
O'Connell, Timothy J.
O'Laughlin & Co., 209 N Sharp
Plant, Wm. M., Law bldg
Porter, Wm. H. & Son, 505 E Forrest
Reed, Benj. F.
Rippel, Henry S., 7 Clay
Rippel & Fisher, 800 W Duncan
Rothenberger, John W.
Russell Construction Co. (Not Inc.)
Silberstein, Israel, Equitable bldg
Stockhausen, Chas. L. (Large), Marine Bk. bldg
Talbott, M. A. & Co. (Large), Am. bldg
Walch, J. J. & Son
Waters, John, 23 E Centre
Watters, Edward & Co.
Williamson, C. S., Law bldg
CAMBRIDGE—Brown, J. Ben.
Nichols, J. W.
CHESTERTOWN—Culp, W. S. & A. M.
Dwyer, Frank E. (Large)
Pippin, Walter T.
CUMBERLAND—Mertens, F. Sons (Large)
EASTON—Whitby, W. H.
EASTPORT—Smith, Wm. H.
ELKTON—Stephens, Wm.
Strickland, A. M.
FEDERALSBURG—Messenger, R. W.
HAGERSTOWN—Lamkin, S. Lewis
LUKE—Sigler, Wm. T. (Large)
SALISBURY—Abbot, Merrill
Elliott, John T.
Ennis, W. J.
Johnson, Lee
Johnson & Jenkins
Powell, W. C.
Pusey, W. P.
Slemmons, T. M.
SNOW HILL—Corddry, W. D. & Son
TAWSON—Burns, Wm. K.
Thomas, Chas. E.
WESTMINSTER—Hunter, Chas. B.

## MASSACHUSETTS.

ADAMS—Barrett, P. J.
Water, Frank M.
AMESBURY—Moran, John H.
AMHERST—Blodgett & Spaulding
Bosworth, Geo. E.
ARLINGTON—Disston, Geo. A.
Lowe, Geo. H.
McDonald, Angus G.
Marton, O. R. & Co. (Not Inc.)
ATHOL—Fredette, Edward
ATTLEBORO—Bowen, C. L. (Mason)
Currie, Malcolm
Dexter, Everett O. (Mason)
Fales, William (Mason)
Grant Bros.
Horn, John (Mason)
Rawson, Henry A.
White, Herbert
Young, Daniel & Co.
AUBURNDALE—Beardsley, Maurice E.
BARNSTABLE—Jones, Leslie F.
BARRE—Bassett, H. M.
BELMONT—Johnson, Olof
Loomer & Allen
BEVERLY—Connolly Bros. (Stone)
Crosby, Forman A.
Donkins, J. M. & Son
Flint, Walter S.
Gadbois, Arthur J.
Geary, John
Guarino, Cassiniero
Hallis, H. Merritt
Hanson & Batchelder
Hurlburt, Job F.
Linehan, D. & Son (Stone)
Morgan, Chas. E.
Ober, Prince, 363 Cabot
Stewart, Frank W.
BILLERICA—Hosmer, Victor J. (S. B.)
BLACKSTONE—Kenney, John
Taft, L. A.
BOSTON—Abbott, E. A., 95 Milk
Adams, Terrance, 1812 Washington
Allen, Adelbert H., 26 Brattle
Allen, C. S. Co. (The), 9 Allston, Alls.
Altman, Samuel, 12 Holborn, Rox.
Ambursen, Hydraulic Cons. Co., 176 Federal
Anderson, Carl T., 243 Everett, E. B.
Atlantic Construction Co., 6 Beacon
Atlas Construction Co., 683 Atlantic av
Bagloe, John C., 16 Waltham
Barrett, Joseph J., 615 Dorchester av
Barry, W. J., 32 Fenwood rd
Barter, John E., 817 South, Rox.
Beal, A. B. & Son, 43 Tremont
Belleden, C. H., 35 Wareham
Benard, Thos. H. & Son, 39 Deponset av (Dorchester)
Bertranm, Jas., 307 W 3d (South Boston)
Bigelow & Harriman, 127 Federal
Bishop, J. W. Co., 683 Atlantic av
Bixby, John G., 320 W First, S. B.
Blackwood, Ira B., 75 W Dedham
Boden, Henry J., 51 Evelyn, Mat.
Bogart, I. H. & Son, 25 Barrett
Boretto, Julius, 109 Norfolk av, Rox.
Boulter, Leroy S., 26 Wyoming, Rox.
Bourne, George F., 148 Mt. Vernon
Boyd & Berry, 11 Grampion wy (Dorchester)
Boyle, J. M. & Co., 22 Allston
Brock, Edward, 35 Winthrop, Chsn.
Brock, Nathan S., 2 Walnut
Broderick, Thomas F., 40 Custer
Brown, Bedford F., 17 Randolph rd, Mat.
Brown, C. F., 12 Charles (Dorchester)
Brown, Jas. W., 63½ Chestnut
Brown, Wm. H., 904 Harrison av
Bryne Contracting Co., 46 School
Bryne, Geo. M. Co., 79 Milk
Bryne, Willard B., 262 Washington
Burt, J. H. & Co., 1617 Blue Hill av, Mat.
Campell, John P., 2 Agassig pk.
Cann, G. S., 1206 Harrison av
Carroll, Michael T., 104 Spencer (Dorches'r)
Carter, A. B., Tremont bldg
Caverly, Geo. W., 2080 Washington
Cefalo, Antonio, 220 Devonshire
Chamberlain, Wm. A., 2249 Dorchester av
Chandler, J. H. Co., 29 Scotia
Chisholm, Alex. C., 1320 Blue Hill av
Chisholm, Donald C., 15 Freeport, Dor.
Clark, Edward W. & Co., 7 Water
Clark, Eldon A., 65 F (South Boston)
Clark, Frank W., 287 Adams
Clark, Henry S., 490 E B'way, S. B.
Condon, Thos., 80 Maple (West Roxbury)
Coleman, Daniel, 16 Oscar, Rox.
Coleman, John C. & Son, 16 Bynner, J. P.
Connell, Wm. A., 37 Harvard
Connery, David, 47 River House
Connolly, Thos. H., 124 Devonshire (Rox.)
Coutanche, Joshua, 18 Harvard pl
Crane, Wm., 7 Water
Cranitch, John J., 7 Water
Crawford, Andrew, 7 Tebroc, Dor.
Creber, F. B. & Son, 43 Eustis (Roxbury)
Crosby, Riley G., 23 Barry, Dor.
Crosby, Wm. H., 40 Rosedale, Dor.
Curley, John P., 167 Centre, Dor.
Currier, C. E. Co., 110 Summer
Cusack, Andrew M., 95 Milk
Daniel, John, 166 Devonshire
Daunt, John A., 355 E. S. B.
Davidson, Gideon L., 15 Brenton
Davidson, James H., 51 Esmond, Dor.
Davis, Geo. M. & Son, 46 Cornhill
Dean, Geo. A., 45 Howard av, Dor.
Delano, Wm. J., 2a Bowditch st, Rox.
DeWitt, John E., 170 Bellevue, Rox.
DeWitt, Kenneth S., 218 Centre, Dor.
Dibblee, Theo. L., 687 Centre, J. P.
Dingwell Bros. Co., 214 Brooks
Donahue, Michael, 4 Washington (M.)
Donovan, Patrick F., 115 Terrace, Rox.
Douse, John W., 1069 Dorchester av
Douse, John W., 22 Downer av, Dor.
Dow & Rose, 35 Wareham
Doyle, James E., 17 Harvard pl
Drake, John W., 406 Border, E. B.
Duff, John W., 170 Summer
Dunlop & McElaney, 92 Utica
Eadie, Wm. 633 Columbia rd, Dor.
Eagles & Erwin, 7 Appleton
Eddy, L. W., 707 Dudley (Dorchester)
Eisenberg, H. F., 35 Stillman
Elston, A. A. & Co., 166 Devonshire
Fallon, James D., 481 Tremont
Ferguson, James H., 22 Parkman, Dor.
Ferguson, John, 481 Tremont
Fifield, Wm. S., 25 Bowker
Finn, Barnard, 151 Devonshire (Dorchester)
Fishbein, Louis, 57 Auburn
Flynn, John J., 95 Milk
Fossett, Matthew H., 4350 Wash. Rox.
Fowler, Daniel S., 24 Storer
Fox, Benj. (Inc.), 15 Exchange
Frame & McPherson, 99 Border, E. B.
Freeman, Ed. F., 2 Ramsey
Fuller, Geo. A. Co., Board of Trade bldg
Gerrish, H. D. & Co., 129a Centre, Dor.
Gerry & Northup, 166 Devonshire
Gilman, Joseph N., 22 Pitts
Goudey, Gilbert O., 8 Rozella, Dor.
Gow, Chas. R. Co. (The), 79 Milk
Graham, John, 82 North
Graves, Rupert A., 118 Charles
Gregory, Edward R., 60 W Dedham
Griffin, John F. & Co., 95 Milk
Hamilton, I. J., 1048 Harrison av (Rox.)
Hannon, Frank J., 166 Devonshire
Hanlon, Thos. H., 1752 Dorchester av

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Harkins, John F., 31 Paris, E. B.
Harting, Paul G., 34 Linden
Hatch, Wilbus J., 75 Minot, Dor.
Hathaway, A. Sons, 77 River
Havey, John A., 43 Mendum, Rox.
Hawes, Benj., Jr., 14½ Harrison av
Henderson, James, 8 Fletcher, Rox.
Henderson, Wm. T., 8 Victoria
Hersey, Ira G., 166 Devonshire
Hertel, Frederick W., 124 Boylston, J. P.
Hildreth, J. W. & Son, 397 Atlantic av
Hodges, F. S., 166 Devonshire
Holland, James, 666 Columbia rd, Dor.
Holmes, Chester D. (Estate of), 20 Creek sq.
Horn Bros., 18 Cambria
Horne, Richard F., 139 W Brookline
Horton & Hemenway (Large), 683 Atlantic
Hurley, John J., 27 Knapp
Jacobs, David H. & Son (Mason), 166 Devonshire
Jefferson, Wm. J., 147 Dudley, Rox.
Johnson, Alfred & Son, 292 Main, Chsn.
Johnson, Frederick, 84 Chestnut
Johnston, Chas. J., 80 Munroe (Roxbury)
Jones & Meehan, 10 Tremont
Julien, Francis X., 22 Vernon, Rox.
Kellough, Wm. J., 7 Pine
Kelly, John A., 261 Columbia rd, Dor.
Kelly, John E., 186 Sycamore, Rox.
Kennedy & Peterson, 18 Cambria
Keylar, Thomas, 15 Winship, Br.
Kinney, Alfred F., 99 W Brookline
Lahaise, Lomer, 43 Cranston, J. P.
Lamont, Alvin & Co., 1200 Harrison av
Lavean, Edward, 46 North (Roxbury)
Lawlor Bros., 16 City sq (Charlestown)
Lawson, Chas. L., 78 Fairbanks, Br.
Letteney, C. F. & Co., 51 Waretown
Letteney, Wells T., 43 Chelsea (Charlest'n)
Leverone, Frank, 97 Fulton
Lindemann, S. Walter, 126 Water
Litchfield, Edwin M., 127 W Brookline
Locatelli, J. E. Co., 46 Cornhill
Lombard, James H., 87 Warren, Rox.
Long, John & Son, 9 N Russell
Lord, Rufus E., 40 State
McAleer, John B., 21 Province
McArdle, Jas. W. (Mason), 95 Milk
McAuley, Daniel A., 641 Warren, Rox.
McCoy, James E., 166 Devonshire
McCracken, Wm. J., 20 Jones av, Dor.
McDonough, Domonick J., 111 Draper, Dor.
McGahey & O'Conner, 95 Milk
McGaw, John & Son, 128 Washington
McGregor, John B., 83 W Concord
McGovern, James, 875 Adams, Dor.
McGuire, Martin, 3 Linden ct
McIntosh, A. J., 2 Creek sq
McKenzie, Murdock, 340 Belgrade av
McKillop, Daniel R., 160 Appleton
McLane, Edward R., 47 Tower, J. P.
McLean, Austin W., 84 Chardon
McLean, C. Garfield, 83 Haverhill
McLean, Joseph W., 1010 Tremont, Rox.
McLellan, Jas. D., 19 Wareham
McLeod, Wm. A., 48 Cohasset, Rox.
McMorrow, John, 322 Adams, Dor.
McNeil Bros., 90 Freeport, Dor.
McPherson, John A. & Co., 12 Chestnut
McPherson, John T., 399 Massachusetts av
Mack, J. J. & T. F., (Masons), 166 Devon'e
MacDonald, Angus, 161 Devonshire
Mackinon, Neil, 415 Chestnut Hill av, Br.
Maguire, Thos. F., 14 Jess, J. P.
Maguire, Thos. F., 764 Huntington av, Rox.
Mainland, John, 166 Devonshire
Marquis, George, 80 Clifford (Roxbury)
Mattey, Anable, 14 N Grove
Mead, Charles H., 15 Beacon
Mead, Mason & Co., Tremont bldg
Merritt & Jarvis, 12 Marshall
Mills, Joseph F., 116 Harvard, Dor.
Milton, David, 40 Staniford
Mitchell & Sutherland, 166 Devonshire
Moore, Patrick H., 126 Fisher av, Rox.
Moorhouse, Robt. B., 58 Troy
Morrison, Geo. 138 Gardiner
Morrison, Newton, 10 Province
Mowatt, Clifford M., 22 Welles av, Dor.
Moxon, Edwin B., 41 Beverly
Munroe, Wm. B., 101 Tremont
Murphy, James H., 7 Woodward Park St. (Dorchester)
Murphy, John J. & Co., 114 Broad
Murphy, Michael R., 9 George (Brookline)
Newborg, John C., 23a Oakwood (Dorch'r)
Newcombe, Wm. H., 23 Hamilton (Dorch'r)
Nickerson, Daniel E., 70 Joy
Nicholson, Jos. & Son, 101 Tremont
Norcross Bros. Co. (Large), Tremont bldg
Norwood & Ramsdell, 3½ Arch
O'Hearn, Patrick, 1464 Dorch av
Oakman, H. P. Sons, 3 Oakman (Dorch'r)
Oliver, Walter I., 165 Harrison av
Orne & Lawrence, 46 Cornhill
Page, G. & J. W., 213 Pleasant
Pierce, Frederick L. & Son, 827 Adams,
Piotti, Ambrose, 38 Olney Dor.
Power, Jacob P., 583 E B'way (S. Boston)
Powers, Edward, 28 Beach
Rankin, Joseph S., 5 Alden
Preble, Walter H. Co., 166 Devonshire
Rayner, A. W., 247 Harvard
Reed, Geo. T., 24 Webster av, Alls.
Rice, Henry J., 72 Florida (Dorchester)
Riley, Daniel F., 68 Auckland (Dorchester)
Roberts, Chas. F., 10 E Springfield
Roberts, John H., 12 Hawley pl
Robertson & Ferguson, 4 Stanwood (Rox.)
Rockwell, Mrs. Jeremiah S., 569 River (Mat.)
Rockwell, Fred. J., 261 Bowdoin
Rodd, Wm. G., 382 W B'way, S. B.
Roebling Construction Co., 101 Tremont
Rood & Palmer, 45 River
Root, W. A. & H. A. (Masons), 42 Dunbow (Roxbury)
Ruggles, Harvey R., 45 Brooks, Br.
Sanby, Wm., 213½ Commercial
Sanford, Thos. A., 15 Braintree, Alls.
Schneider, John, 26 Cline, J. P.
Schneider, Peter, 14 Egleston, J. P.
Shea, John T., Jr., 696 E Sixth, S. B.
Shea, Thos. J., Stedman, J. P.
Sherman, Wm. U., 18 Lyndhurst, Dor.
Shorey, Albro F., 902 Huntington av, Rox.
Soule, L. P. & Son, 166 Devonshire
Smith, Edward M. & Son. 166 Devonshire
Smith, Wm. H. Co., Tremont bldg
Snow, Franklin A., 178 Devonshire
Spinney, A. O., 21 Harvard pl
Sprague, Isaac, 149 Dudley, Rox.
Staples, Wm. E., 311 Border, E. B.
Stedman, Walter, 12 Cherry
Steward, Chas. Almont, 71 Brent, Dor.
Stillman, Edward N., 143 Main
Stone, Corydon O., 15 Essex
Sullivan, Michael J., 10 Lambert (Roxbury)
Sullivan, Michael J., 752 E B'way, S. B.
Swanson, Victor, 263 N Beacon, Br.
Swift, John O., 2253 Dorchester av, Dor
Thisland, John N., 91 Homer, E. B.
Tobin, Thos. J., 3628 Washington, J. P.
Todesca, Joseph, 59 Bellevue av, Rox.
Tracy, Walter, 72 Bedford, Chsn.
Trower, John, 52 Charles
Tufts, Geo. M., 29 Wareham
Turner, Geo. W., 116 Rutherford (Charles'n)
Varnerin, John & Sons, 321 Norfolk av
Vincent, Henry E., 36 Ormond, Mat.
Walch, John P., 1 Regent ct, Rox.
Walsh, Bros., 848 Tremont bldg
Ward, Robert D. & Co., 1357 Columbus av (Roxbury)
Webster, Wm. H., 1809 Washington
Wells, T. B. & Co., 65 Joy
Wentworth, Walter A. & Co., 15 Exchange
West, Derrick L., 678a Centre (J. P.)
Whidden & Co. (Inc.), 155 Milk
Whitcomb, E. Noyes Co., 49 Wareham
Whitcomb, F. L., 17 Wareham
Whiteacre, Robert W., 2 Alexander (Dor.)
Wight, W. E., 194 Bowdoin
Willcutt, L. D. & Son, 166 Devonshire
Wills, Thos. E., 110 Newburg, Rox.
Wood, Nehemiah S., 41 Beverly
Woodbury & Leighton Co., 201 Devonshire
Woodman, Chas. E., 9 Ferdinand
Wyatt, F. W., 221 Mass. av
Wylie, Charles & Co., 9 Province
Young, W. N., 166 Devonshire
Zieman, Max, 89 W Cedar

BOURNE—Blackwell, E. A.
Ryder, Robert J.
Waterhouse, M. E.

BRIDGEWATER—Ball, John H.
Benson, Chas. A.
Neville & Glenn

BROCKTON—Beal, John F.
Cremmins, Wm.
Donnelly, Wm. H.
Fowler, Wm. H.
Hall, Dormenio
Hanson, Willard
Irving, David
Lays, Samuel T.
Lorrie, Frank
Mitchell, Clarence A.
Nye, Joseph B.
Olson, Chas. T.
Pearson, Nils
Peck & McKay

BROOKLINE—Carver, Albert P.
Driscoll, Dennis (Stone), 21 Kent
Driscoll, James & Son
Driscoll, Timothy
Emerson, Fred. M.
Flynn, Martin
James, Horace
Lone, James
Lyon, Levi T.
McThomas & Son
Mealey, Francis
O'Hearn, M. J.
Quimby, B. F.
Shearman, John

CAMBRIDGE—Barker, John
Barrett, James T.
Blaikie, Luther
Brosnahan, John F.
Byrne, John B. (Mason)
Condon, Wm. F.
Coulson, Samuel
Elston, A. A. & Co.
Hawkings, Chas. S.
Hogan, Wm. S.
Linehan, Chas. (Mrs. Mary A.)
McGahey & O'Connor
Currie, A. Y., 376 Harvard
McGirr, Jno., C., 1522 Cambridge
Newcomb, Chas. S.
Norcross Bros., foot Brookline
O'Connel, Wm.
Perrault, Peter
Riley, John M.
Thomas, James E.

CANTON—Curtis, Harlan W.

CHELMSFORD—Dix, R. W.
Miner & O'Neil
Moore & Coggeswell

CHELSEA—Chambers, Richard J.
Coughlin, Daniel
Gordon, Morris
Higginbotham, James
Kaplan & Fisher
Webster, Dixon & Co.

CHICOPEE—Canty, D. G.

CLINTON—McMahon, John T.

CONCORD—Lowden, Andrew S.

CONCORD JUNCTION—Beharrell, Isaac B.

DANVERS—Dunnells, Lorenzo

EAST BRAINTREE—Dobson, Geo. R.
Hayward Bros.
Miller Construction Co. (Not Inc.)

EAST DOUGLAS—Stockwell, F. E. (Mrs. B. A.)

EAST FALMOUTH—Jenkins, Wilson R.

EASTHAM—Rogers, Chas. A.

EASTHAMPTON—Pepin, Delos T.

EAST LONG MEADOW—Champlin, W. S.

EAST MILTON—Barry, Michael J.

EAST NORTHFIELD—Holton, S. C.

EVERETT—Brown, Geo. D.
Henderson, James
Karston, Gustave
Oakes, Geo. W.

FALL RIVER—Beattie & Wilcox (Large)
Benoit, Samuel
Borden, Wm. A.
Brigg, John
Bryant, Herbert C.
Bullock, Chas. V.
Burt, P. S.
Cahoon, Chas. T.
Cooper, Thos. H.
Darling, Jos. M.
Donnelly, Jos. A.
Dorley & Flores
Ford, Naehaniel
Gifford, Frank W.
Gifford, Otis E.
Grant & Sampson
Grinnell, D. D. & Son
Labrie, Jos. P.
Le'Clair, Chas.
Lincoln, Newman M. & Son
Logan & Armstrong
McDougall & Puleston
McQuillan, Alfred W.
Manchester, Geo. R.
Manley, Stephen W.
Moore, Daniel
Sears, C. H. (Mason)
Sherman, Chas. H.
Snyder & Manchester
Southworth, E. S.
Steward, John
Terry, Joseph C.
Wagner, John O.

FITCHBURG—Kennedy, M. J.
Lawrence, S. S. & H. N. (Large)
Wellington, Augustus

FRANKLIN—Dudley, Frank E.
Murphy, John, Jr.
Stevens, Roswell K.

GARDNER—O'Dell, D.
Quigby, A. C.

GLOUCESTER—Day, Walter P.
Garland, Simon
Griffin, E. S.
Jackman, Eli (Mason)
Lane, Wm. M. (Mason)
Maddix, Wm. A.
Norwood, Chas.A.
Pomeroy, E. A. (Mason)
Ricker, P. R. (Mason)

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GREAT BARRINGTON—Barrington Building Co. (Not Inc.)
GREENFIELD—Burnham, F. W.
Frizzell & Keefe
Holden, Dwight D.
Lyons, F. L.
Pray, R. E.
GREENWICH VILLAGE—Griffin, W. H.
GROTON—Clark, L. H.
Wood, Arthur A.
HAMILTON—Adams, G. M.
Appleton, C. W.
Horne, Thomas
Lawrence, E.
Peterson, C. A.
Trussell, Frank P.
HARDWICK—Barnes, Hiram E.
HAVERHILL—Cashman, Jno.
Kelly Bros., 6 Park
Ross, C. O. & Sons
Sargent, Chas. B., Jr.
Shannon, Edgar F.
HINGHAM—Bartlett, Edward W.
Horton, Geo. W.
HINGHAM CENTER—Ripley, Francis M.
HOLLISTON—Austin, Wm. H.
HOLYOKE—Ducharme, Israel
Fowles, J. H.
Goddard, V. V.
Jones, L. F.
Labiberte, Arthur
Labiberte Bros.
La France, Louis A. (Large), 400 High
McCormick, A. D., 43 Gates
O'Connell's, Daniel Sons (Large), 188 Hampton
O'Neil, F. F.
Prew, John J., 887 Main
Ranger, Casper (Large), 10 Bond
Thorpe, Geo. L.
HUDSON—Green, Wm. T.
HULL—Hatchard, Geo. H.
Knight, Edward G.
HYDE PARK—Black, James I.
Coveney Building Co.
Dolan & Marks
IPSWICH—Picard, Henry A.
Woodward, B. W.
LANCASTER—Thayer, Otis C.
LAWRENCE—Cram, R. F.
Daly, Maurice
Dugrenier & Lachapello
Edmonds, Peter
Gilbert, Albert
Gillen, Michael C.
Guerin, Patrick
Hollund, Phillip
Keefe, Edson N.
Nebb, Robert H.
Searle, J. S.
Smith, Walter
Woodruff, H. R.
LEE—Camarco, M. L.
Harding, Z. & Son
Martin, Nelson
LEEDS—Warner, H. W.
LEICESTER—Warren, Silas G.
LENOX—Biglin, James
Clifford & Sons
Deloyey, C. G.
Fielding & Mahecket
Kilmer, Chas.
Peters, L. C.
LEOMINSTER—Dargis, Alfred L.
Guenette & Benoit
Holmes & Hall
Lyon, Albert E.
Powers, Elmer
Smith, E. M.
Stacey, H. H.
LEXINGTON—Glass, E. W.
Washburn, A. C.
LONG MEADOW—Provost, John W.
LOWELL—Adams, John H.
Baker Construction Co.
Berard, Gilbert
Conners, Bros. Co.
Edgecomb, Pater D.
Gray, Willie
Guthrie, C. E. & Son
Hamel, Chas.
Hands, Stephen W.
Jalbert, Joseph B.
Jean, Amedec
Murphy, Michael T.
O'Hearn, Patrick
Simpson, John
Smith, James L.
Snow, Samuel E.
Staples Bros. Co.
Thomas, Jos. T.
Thompson, Wm. W.
Varnum, C. F. & J. B.
Ward, W. H. (Estate of)
Wilson, Francis T.
LYNN—Alexander, Albert H.
Bryor, Arthur E.
Butterick, Geo. G. S.
Cohen, Jacob
Connor & Keene
Croscup, James A.
Cunningham, C. S.
Cunningham, Daniel
Daley, Thomas F.
Davidson, Benj. H.
Dearborn, Edward D.
Donaghy, Elija
Eigner, Joseph
Eklund, Arvid W.
Fulton, James H.
Goodwin, Cyrenus
Grant, John E.
Green, Daniel J.
Healy, Joseph A.
Kelly, C. F.
Kelly, Frank G.
Little, Lawrence D.
McDonald & McNeil
Mayo, Fred D.
Pevear, Everett S.
Potter & Healy
Reynolds, Edward T. (Large), 61 Exchange
Sheehan, John & Sons
Strout, E. E., 319 Union
Tinkham, E. B.
Van Blascom, J. W.
Wilson, Edward
MALDEN—Buckford, George T.
Caplan, Abraham
Chadwick, W. P.
Chase, David W.
Clark, Charles F.
Coburn, H. S.
Dever, John M.
Donahue, Peter & Co.
Gillespie, David
Greene, John B.
Hammond, George C.
Hawkins, C. W.
Hodgkins, M. A.
Howard, Richard J.
Howard, T. R.
Hunnewell, F. E.
Jacobson, Alfred
Kenney, Ann
Lenehan, Edward F.
Lenehan, Patrick H.
Loome, Chas.
Newhall, Stephen O.
O'Brien, Timothy
Presley, Wm. C.
Russell, Chas. B.
Sears, Willard
Sullivan, Patrick F.
Sweezle, Artemas B.
Welch, Francis J.
Wilson, George W.
Walk, Barnet
MANCHESTER—Roberts & Hoare
MANSFIELD—Angell, Wm. H.
Gifford, B. T.
MARBLEHEAD—Martin, Benj. F.
MARION—Briggs, Geo. S.
Ellis, Chas. M.
Richards, George F.
Washburn, Chas. R.
MARLBORO—Cousins, Daniel M.
Newcomb, Richard L.
Powers, E. L.
MARSHFIELD—Davis, J. A.
Ewell, F. T.
Lewis, Howard C.
White, Luther
MARSHFIELD HILLS—Damon, E. D. W.
MATTAPOISETT—Hammond, J. S. & Son
MAYNARD—Shattuck, Sidney P.
MEDFORD—Clark, Richard W.
Crockwell, John J.
Potter, James E.
Ritchie, E. C.
Soderlund, Nils J.
Sweeney, J. E.
MELROSE—Harris, Albert E.
Hunnewell, H. E.
Love, T. S.
McDonald, John
Morss, William
Philpot, Robert
Steward, J. A.
Toomey, John
MELROSE HIGHLANDS—Mower, George C.
MERRICK—McCarthy, J. F.
Provost, Samuel
METHUEN—Eceles, W. & F.
Smith, George A.
Stowers, Fred. W.
MIDDLEBORO—Phinney, Frank
Pierce, F. E.
Porter, H. G.
Shaw, C. Henry
Starbuck, George W.
Thomas, C. H.
Thomas & Connor
MILFORD—Dillon Bros.
Lent, H. H.
Trask, H. E.
Waters & Hynes
Weed, W. W.
Whitney, Otis & Son
MILTON—Babcock, Alton & Co.
Chute, Carey
Lawerance, John R.
MITTINEAQUE—Roberts, Arthur
MONSON—Moulton, H. D.
Steward, J. S.
MONTAGUE—Whitney, Edward E.
NAHANT—Perkins Bros.
NANTASKET—Smith, John
NANTUCKET—Holmes & Pease
Ring, J. C.
NATICK—Ferguson & Hall
Harris, Chas. O.
Linehan, Luke & Co.
McKeil, John D.
NEEDHAM—Devine, Elbridge
Flewelling, H. A.
Sutton, E. D.
NEEDHAM HEIGHTS—Low, Franklin
NEW BEDFORD—Bennett, Frank C. (Mason)
Bosworth, Geo. A.
Brightman, Chas. O.
Buffington, Arthur E. (Mason)
Bulman, Henry T.
Cook, D. Herbert (Mason)
Davis, E. B. Corp'n
Demoranville, James B.
Faunce, Chas. L.
Gay, Geo. W.
Hammond, F. W.
Hathaway, D. L. & Son
Hook, Gilman E. (Mason)
James, F. E.
Jones & Dodge
MacKay Malcom A.
Moore, James J.
Pierce, Chas. E.
Sherman, R. A. & Son
Sistare, F. B.
Sullivan, John B. & Son
Sullivan, Martin H.
NEWBURYPORT—Currier, Arthur C.
NEWTON—Beal, Jarvis T.
Gowing, Frederick H.
Joyce, John (Estate of)
O'Brien, Patrick H.
Porter, W. E.
Weldon, Wm. B.
NEWTON CENTER—Hurley Bros.
Kneeland, Frank E.
Kneeland, John B.
NEWTON HIGHLANDS—Mitchell, Wm. H.
Sanderson, Richard
NEWTON LOWER FALLS—Donahue, Thos. F.
NEWTON UPPER FALLS—Moses, A. C.
NEWTONVILLE—West, George G.
NOBSCOT—Cutler, Virgil M.
NORTH ABINGTON—Curtis, Frederick
Ewell, Edwin H.
Turner, S. N.
NORTH ADAMS—Whitney Bros. (Masons)
Wood, H. C. & Co.
NORTHAMPTON—Bailey, Myron C.
Bishop, A. & Son
Gagne, Jos. A.
Harlow, Orzo F.
Livermore, O. E.
Whiting, Chas. F.
NORTH ANDOVER—Adams, Edward
NORTH CHELMSFORD—McMahon, P. T.
Miner & O'Neil
NORTH EASTON—Baldwin, Joseph W.
Dewitt, George H. & Son
NORWOOD—Douglass, Chas. H.
Goodwin, A. L.
Spear & Smith
Walker, H. F.
OAK BLUFFS—Burgess, Geo. A.
Buzzell, Alfred A.
Eddy, Herbert A.
Kidder, Samuel N.
Leighton, Eli A.
Matthews, E. H.
Smith, Arthur C.
Smith, Benj. D.
Thatcher, Horace A.
Warren, Andrew
ONSET—Roundseville, L. L. Co.
Savery, Wm. C.
ORANGE—Cobb, George L.
Howe, G. D.
Kelton, James E.
McKenna, James A.
Tyler, C. N.
ORLEANS—Myrick, Richard S.
Roger, Joseph L.
Smith, Thomas F.

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OSTERVILLE—Daniels, Charles
Hinckley, Ira L.
PALMER—Flynt Building & Construction Co.
PEABODY—Martin, Patrick J.
Nichols, Lewis L.
PETERSHAM—Johnson, A. P.
Waugh, George C.
PIGEONS COVE—Saundler, Chas.
PITTSFIELD—Beckwith & Pike (Masons)
Dodge, Jas. C. (Mason)
Faulkner, G. W.
Foote & Jones (Masons)
Hall & Son (Masons)
Hume, E. B.
Kloseman, H. B.
Leidhold, Geo. E.
Lester, Geo. E.
Ley Construction Co.
Merriam, Geo. W.
Michael, M. M.
Miller, S. I.
Osteyee Bros.
Roscoe & Stone
PRINCETON—Merick, G. C. F.
Padchan, E. A.
QUINCY—Andrews, Frank C.
Cashman, Jno.
Crowley, Dennis F.
Ferrari, Bros.
Hayes, Daniel & Sons
Johnson, John S.
Nelson, Albert
Parlee, Edward F.
Raymond, Clifford R.
Smalley, Henry C. Granite Co. (Inc.)
Thompson, John & Sons
RANDOLPH—Campagna, Eugene W.
Taylor, Geo. F.
READING—Johnson, Henry R.
Steward & Robertson
REVERE—Egleston, Earnest J.
Hurvick, Frank
Ray, Milton
Shay, Alex. H.
Simons, Wm.
Sullivan, Timothy
Tibbetts, Elmer S.
Young, Horatio L.
ROCKPORT—Smith, Rutherford
ROWLEY—Goodwin, F. W.
Rundlett & Millett
SALEM—Chalifour, Eli.
Dawson, Chas. H.
Lord & Neal
Mack, J. J. & T. F.
Merrill, Samuel S.
Peterson, Jos. N. & V. S., 62 North
Pittman & Brown Co. (Large), 255 Derby
Welch, Jas. J. & Co.
SALISBURY—French, Luther W.
SANDWICH—Grant, Ellis O.
SAUGUS—Greenlay, W. Geo.
SAXONVILLE—Hall, James E.
SHARON—Curtis, Chas S.
SHELBURNE—Newhall, A. A.
SHELBURNE FALLS—Merrill, G. G.
SHIRLEY—Marsh & Son
SHREWSBURY—Gates, George N.
Stone, Henry J.
SOMERVILLE—Andrews, J. M. & Son, 172 Berry, Arthur W. B'way
Bowlby, Henry R.
Bowlby, Lester F.
Brown, Roscoe M.
Burnham, Ira F.
Buttimer, Jeremiah
Buttimer, Maurice
Ellis, Robert H.
Essensa, Chas.
Gallagher, Joseph P.
Gordon, Thom.
Hartwell, Hayard
Hayden, James
Henderson, Wm. A.
Hines, A. H.
Hutchins, Elmer N.
Lang, Albert W.
Lewis, Stephen H.
Lingley, Thomas W.
McCarthy, Wm. J. & Co.
McGray, H. R., 95 College av
Mabie, Annie M. (Horatio N.)
Meserve, Chas. A.
Olson, Otto
Skelton, Daniel J.
Smith, Alfred A.
Snow, John C. H.
Spofford, Harold E.
Tibbets, Harris P.
Warren, Frederick C.
SOUTH ACTON—Jones, Samuel, Jr.
SOUTHBRIDGE—Bail, Hormidas
La Liberte, Frank X.
SOUTH DEERFIELD—Gass, Wm.
SOUTH DUXBURY—Soule & Glover
SOUTH FRAMINGHAM—Cutler, Virgil M.
Egan, Harry L.
Freese, Edwin A.
Garrahan, John F. (Mason)
Hall, Jas. E.
Haskell, Chas. P. (Mason)
Merrill & Taber
Morrisey, Thos. F. (Mason)
Preston, E. C.
Prindiville, J. J. & Co. (Masons)
Rowe & Perini Construction Co.
Smith, James F.
Swan, A. D. (Mason)
Thompson, W. J. & Son
SOUTH HINGHAM—Cushing, Elijah H.
SOUTH NATICK—Caswell, Frank P.
SOUTH WAREHAM—Vose, Oren C.
Vose, Robert L.
SOUTH WEYMOUTH—Miller, Joseph E. L.
SOUTH YARMOUTH—Eldridge, Nelson
Eldridge, Wm. H.
SPENCER—Cantara, Oliver
SPRINGFIELD—Angers, J. A. & Bro., 327 Main
Burnham, George M., 53 Bridge
Burt, J. S.
Collins, J. M.
Converse, F. F.
Donohue, Jos.
Gagnier & Angers, 327 Main
Kibbe, C. W.
King, Herman L.
Ley, Fred. T. & Co., 307 Main
Muir, James (Out Stone), Bay st av
Newton, W. A. & Co., 337 Worthington
O'Donald, John C.
Sachett Bros.
Scott, John L., 282 White
Scott, L. H. & Co.
Shattuck, E. W. (Large), 98 Taylor
Shea, Daniel C. (Large)
Shea, Jeremiah L.
Springfield Portable Construction Co.
Steward, H. A.
Wells & White
Wood, L. S., Willow & Stockbridge
STOCKBRIDGE—Lawless, T. J.
STONEHAM—Gove, Linwood L.
Swan, John B.
Webber, Parker G.
STOUGHTON—Curtis, Geo. P.
Jones, Frank M.
White, Fred. H.
Witt, H. C.
SWAMPSCOTT—Belben, Nathaniel
Butcher, J. Watson
Delano, Gilbert
Ellis, Albert R.
Hardy, Harry E.
Hudson, Levi
Lyons, James T.
McDonough, Michael D.
Rowell, Fred. E.
Tuttle, H. Scott
SWANSEA—Young, Elmer D.
TAUNTON—Alger, Macombe & Co.
Barstow, Chester
Bassett, E. J. & Son
Bassett, Eugene P., Merchants' la
Bassett, Irving L.
Bassett, Lester E.
Bassett, Lewis C.
Briggs, Abrah T. (Stone), 86 Winthrop
Chase, Wm. H., 15 Trescott
Crane, John A., 16 2d
Crapo, Henry B., Tremont c Fremont
Ellis, N. E.
Fletcher, W. W.
Freeman, Wayne M.
Hardy, Jno. H., 3 Maple av
Harmon & Hopkins, (Brick & Stone), 28 Main
Howes, H. G., Fairview av
Judge, James D., 13 Grove
Leary, Cornelius W.
Lockwood, Joseph
Mann, Wm. H.
Manter, Chas. L., 14 Trescott
O'Connell, D. J., 172 Middleboro av
Sullivan, D. J., 83 B'way
Walker, Jno. C.
Wilbur, Jas. K.
Williams, Frank D., 229 High
Witherill, L. M., 29 Court
TEATICKET—Stevens, Frank L.
TURNERS FALLS—Royer, Jno. B.
Thomas Bros.
UXBRIDGE—Henry, Albert F.
Lackey, Eugene
Malley, Thos.
VINEYARD HAVEN—Hinckley, Herbert N.
Manter, Wm. G.
WABAN—Kellaway, Arthur N.
Kneeland, John B.
WAKEFIELD—Bryer, Jno. H.
Butler, Aaron A.
Feindel, H. A. & Co.
Kilorin Cont. Co.
Prescott, Wm. A., 372 Main
Wanamaker & Webber
WALPOLE—Allen, M. W. & Son
Boyden, Porter S.
McCarthy, Michael F.
WALTHAM—Archambeault, Jos. J.
Brouillette, Jos. P.
Bull, Edw. H.
Cormey, Jno. E.
Dawson, George, Music Hall av
Geoffrion, Louis
Glancy, R. E., 53 Cushing
Gregg, Herbert M., 67 Lawrence
Howe, W. C., 40 Chestnut
Lyons, Wm. E.
McCusker, F. W.
McCusker, Jno. H.
Maloy, Patrick & Son
Moran, Jno. E.
O'Malley, P. J., Massasoit
Prebel, Chas. A.
Rose, Norman J., 188 Hammond
Smith, Edw. B.
WARE—Cummings, Herbert P. & Co. (Large)
Whelan, Patrick, J.
WAREHAM—Barnes, Elmer & Son
WARREN—Nevins, Thos.
WARTERTOWN—Bowlby, L. S.
Flannery, Owen
Iliffe, Wm., Malendy av
Moody, Geo. H.
Murdough, Albert B., Russell av
Whiting, Moses, Royal
Wilson, Wm. H.
WAVERLEY—Melanson Bros.
WAYLAND—Small, E. W.
WEBSTER—Cazeault, J. T. & Bro.
Goddard, Joel & Co.
Hall, George F.
Murdock, Jno.
Plasse, Paul
Towne, W. E.
WELLESLEY—Hapgood, Frost & Co.
WELLESLEY HILLS—Donohue, Thos. J.
McCabe, John W.
Taylor, Chas. N.
WENHAM—Elliott, Chas. F.
Porter, Herbert W.
WEST ACTON—Harris, Frank E.
Hoar, John S.
WEST BARNSTABLE—Jenkins, Z. H. & G. S.
WEST BROOKFIELD—Conway, John A.
WEST DIGHTON—Horton, Chas. A.
WEST FALMOUTH—Bourne, Timothy C.
Bowman, Frederick N.
Lambert, Orlando M.
WESTFIELD—Blodgett, Frank A. (Mason)
Butler, John E.
Ferry, Frederick N.
Green, T. J.
Humphreville, E. M.
Little, Thos. (Mason)
Mahoney, P. J. (Mason)
Snow, Frank A.
Toole, John J.
Wood, H. C. (Large)
WESTFORD—Cummings, Chas. M.
Harrington, P. Henry
Sutherland, Alonzo H.
Wright, Hammet D.
WEST HARWICK—Lathrop, John A.
WEST MEDFORD—Clark, J. M. & Co.
Cunningham, Nason B.
Elmes & Constantine
Ham, Frank W.
Lovering, Lewis H.
WEST NEWTON—Beal, Herbert M.
Cotter, Jeremiah & Sons
Gallagher, James R.
Gannon Bros., 125 River
Hargedon, Jno., Derby nr City line
Jepson, Geo.
Keller, Jno. H. & Wm.
McDonald, M. J.
McKay, Donald
Tange, Hans L.
WESTON—Brown, John J.
Cooper, Howard L.
McDonald, J. O.
WEST SPRINGFIELD—McCarthy, Jas. F., Provost, S., 342 Main, Merrick 359 Main
WEST TOWNSEND—Sherwin, W. Z.
WHITINSVILLE—Burgess, J. E.
Van Steenberg, J. B.
WHITMAN—Black, Paul
Faunce, A. L. & Son
Whitmarsh, A. C.
WILLIMANSETT—Carreau, Louis & Son
Rivers & Young
WINCHENDON—Hildreth, W. P.
WINCHESTER—Blaikee, Dexter B., 72 Everett av
Carroll, Hy. J.
Enman, J. L. M., Kendall nr Mt. Vernon
Hatch, Wm. S.

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McEwen, Jas. H.
Ogden, Geo. C.
WINTHROP—Belcher, M. Henry
Churchill, Gilbert F.
Floyd, Thomas
Griffin, Sidney H.
Johnstone, J. B.
Mahaney, T. J.
Noceti, Louis
Stafford, W. F. & Co.
Steves, Zebulon M.
Woolcott, Frederick W. F.
WOBURN—Anderson, Severine
Ellis & Bushwill Co.
Fowle, George E., 32 Prospect
Greydon, Fraw W., 7 Lowell
Herrick, J. E., Jr.
Ring, Timothy J., 18 Stoddard
Smith, Alexander Y.
WOODS HALE—Grinnell, Chas. J.
Norton, Braman G.
Swift, Ezekiel E. & Son
WORCESTER—Belisle, Eli
Bishop, J. W. Co. (Large), 107 Foster
Bonneau, Louis O.
Booth, A. N.
Buckley, J. M. & C. J., 67 Harrison
Central Building Co., 58 Front
Coderre, Homer
Coderre, Louis, Jr.
Colburn, C. A., 660 Pleasant
Colby, Rufus W.
Cutting, Geo. H. & Co. (Large), 11 Foster
Dorais & Urgel, 3 New Sutton la
Foley, Thomas D. & Co., 26 Perry av
Fortier, Adelard I.
Fortier, Napoleon P.
Gardiner, Oscar
Higgins, Jeremiah J., 518 Main
Howard, S. I., 3 Harvard
Hubbard, John S.
Isenberg, Bernard
Jaques, Benj. C.
Johnson, Frithrof C.
Joyce, Frederick M.
Kane, Michael J.
Kelley, Chas. A.
Le Clair, Amable
Loftus, John
Lynch Bros., 268 Shrewsbury
McDermott Bros.
Mark, F. W., Day bldg
Melican, Thos. F., 3 Chapin
Mellen, Henry & Son, 41 Queen
Miles, James & Son, 54 Beeching
Murphy, Patrick D.
Nelson, Nicholas
Norcross Bros. Co. (Large), 10 E Worcester
Oslund, Gottfried
Oslund & Anderson
Peters, Chas. L., 38 Newbury
Petterson, L. M., 21 Edward
Pickford, Jno. H. & Son, 439 Park av
Pike, Horace S.
Power, Jno. J., 1 Granite
Putnam, W. E.
Quarn, John F.
Rankin & Woodside, 38 Burncoat
Robbins, A. P., 452 Main
Roberts, Joseph J., 133 Grafton
Scoville & Wheeler, 518 Main
Simonds, Wm. F.
Smith, Robert
Stone, Bertrand W.
Taylor, John E.
Tetreault, Joseph
Tucker, Norman B.
Vaughan, C. A., 28 William
Ward, Edward D., 82 Foster
White, P. Foster
Whitehead, Ernest, 21 Foster
Yates, Francis J.
WRENTHAM—Willard, Artemus
YARMOUTH PORT—Taylor, Elbridge

## MICHIGAN.

ADRIAN—Gray, B. H.
ALBION—Albion Lumber Co.
ALPENA—Fox, Owen
Gebhardt, Morrow & Co. (Also Planing Mill)
Koch Bros. (General)
ANN ARBOR—Sauer Bros.
BATTLE CREEK—Cole, Serin B.
Doland, Jno. L., 21 Coguac, W
Gillis, Chas. H.
Hall Bros. & Co.
Hill, James F.
Miller, Silas A.
Snyder, H. E. & Son (Large)
BAY CITY—Campbell, Hugh
Crampton, Wm.
Fish, W. T.
Lamont, Mathew (Large)
Miller, Aleson R.
North American Construction Co.
Steinbaur, Fred. J.
BENTON HARBOR—Richards, W. H.
Sullivan & Howard
BIG RAPIDS—Jones & Green
CADILLAC—Dutton, C. W.
CALUMET—Milford, W. F.
Roehm, P. B.
Ulseth, Edw.
DETROIT—Albrecht, Albert A. & Co. (Large), 1212 Penobscot bldg
Apel, Henry A., 483 Grand River
Archer, John & Co. (Masons), McGraw bldg
Armstrong, A. R., 145 E. Willis
Armstrong, U. & Co., 703 Beaubien
Austin, W. F., 68 Baker
Baker, Henry W., 20 Jones
Baker, R. & Co., Home Bank
Baker, W. H. & Co., 290 Richton
Ballman, W. E., 82 B'way
Bartholomaei, Max W. & Son Co., 466 Warren av
Belanger, A. C., 1717 22d
Berres, Matthias, Jos. Campau & Berres avs
Binders & Berres, 1892 Jos. Campau av
Bingaman, D. A., 118 4th av
Bloom, Charles
Blunt & Dederich, 1358 Woodward
Bowhall, J. W., 805 Grandy
Campbell, Lee, 135 California
Carmichael, A. T., 145 W. Forest av
Chapman Bros. (Masons), 571 Tillman
Carmichael, A. T., 145 W. Forest av
Chase & Schulz (Masons), Chamber of Commerce bldg
Chevillot, Louis F., 78 Henry
Clark & Pierce, 475 Sheridan
Colwell, W. J., 70 Trumbull
Currie, Thos. E., McGraw bldg
Damm & Hausen, 116 Farmer
Denewith & Roberts, 1432 Maxwell av
Dierick, Lawrence, 761 E. Fort
Finn, John & Co., McGraw bldg
Fisher, Geo. W. & Co., 55 Selden
Frazer, John P., Majestic bldg
Gearing Bros., 15th & M. C. R. R.
George & Co. (Inc.), Penobscot bldg
Goddard, Frank H. (Mason), Ford bldg
Goddeeris, Chas., 291 Van Dyke av
Goodenow, L. B. & Co. (Masons), 587 Military
Goodenow & Genn (Masons), 435 Vinewood
Gray, Adam, 19 W. Willis
Gray, Samuel P., 1310 24th
Haberkorn, J. H. A., 384 14th av
Haberkorn, Roy, 169 Seward
Harcus & Lange, 770 Russell
Hedtke & Teller, 186 6th
Helson, Richard, 21 Gilman
Hill, Geo. 305 Greenwood
Home Construction Co., 2887 Woodward
Jaynes, S., 274 Bragg
Johnson, Fred R., 179 Mott av
Kersey, Wm. J. & Sons, 93 John rd
Koch, John M., 355 Sheridan av
Lennane Bros. (Masons), Union Trust bldg
Lesinski, Leszezyrske Co. (Masons), 515 E. Forest
Lloyd Construction Co., Greenwood & Belt R. R.
McCausland, W. H. & Son, 116 W. Larned
McCormick, Alex. J., 351 E. Larned
McEnhill Bros., 214 Cherry
McIntyre, R. W., 776 Canton
McIntyre & McIntyre, 703 Sheridan
Marentette, J. E., 137 W. Larned
Mayhew, J. T., 317 Grand River av
Misch, Otto, Home Bank bldg
Moynes, J. E., 138 Cass
Moynes, Jas. A. & Co., 759 Beaubien
Mock & Malott, 562 Greenwood
National Construction Co. (of Detroit), Majestic bldg
Oakwood Contracting Co., Oakwood River
O'Connell, H. P., 565 4th
Osgood, David J., 1142 W. Fort
Overshine, Reuben G., Chamber of Commerce bldg
Paterson Bros. & Co., Tolsma bldg
Peterson & Horner, 142 Park bldg
Persinger, A. & Son, 104 E. Congress
Putnam & Moore (Masons), 753 Wabash
Riley, F. M., 335 Grand River
Saunders, Amos, 75 W. Columbia
Schmied-Sisman Co., 395 Beaufait
Scholl, L. & Sons (Masons), 298 12th
Shumaker, W. H., 124 Calumet
Smith, A. J. & Sons, Ford Motor Plant
Smith & Socall, 447 Lincoln
Spitzkey, J. H. & Son, Van Dyke & Tonti
Standfield, Robert, 36 Park pl
Steverman, Thos. E., Penobscot bldg
Stokes & Whittingham (Masons), 78 Linden
Sweet, H. M., 514 W. Willis
Tait & Laurenson, 848 Champlain
Teakle, Robert T., 660 Grand River
Town & Schreiber, Trumbull & Grand River
Traves, W. H. (Large), 335 5th
Vinton Co. (Large), 126 Woodbridge, E.
Wallace & Korpp, Hammond bldg
Wardell, Wm., 456 17th
Watterman, Roy & Co., 233 Grand River av
Whitney, F. J., Brush & Wilkins
Whittaker, John & Co., 51 Church
Wilson, U. Y., 87 W. High
Witt, Herman, 121 Cass
Wood, F. B., 64 Gibson
Wood, W. E., ft. of Concord
Wood & Mapes, 614 8th
Young, Wm. D. (Mason), 216 Bethune av, W
Zoller, Otto D., 460 Springwells av
DOWAGIAC—Judd, Mark & Son
ESCANABA—Williams, Nicholas
FLINT—Matthewson, Fred. C.
GRAND RAPIDS—Gentz Bros.
Hoertz, Chas. & Son
Oltman, L. P.
Schliess, F. C. (Mason)
Tibbets, S. B.
GREENVILLE—Chandler, George
HANCOCK—Gauthier Bros.
HOUGHTON—Northern Construction Co.
Superior Construction Co.
IRON MOUNTAIN—Parmelee & Son
IRON WOOD—Olsen & Bergquist
ISHPEMING—Wahlman, John & Son
JACKSON—Bradt & Lusk
Conway, Henry D. (Stone), 214 N West av
Moloney, Thomas, Cortland & Michigan av
North & Bradshaw, 1424 1st
KALAMAZOO—Flaitz, Frank
Foy, Thos. W.
Kastead, E.
Rickman's, Geo. Sons Co.
Shannon, W. H.
White, Albert J.
Wolf & Fellows
LANSING—Bernard, J. V.
Britten, W. T.
Chittenden, C. M.
Daman, Chas.
Fitzpatrick, M. E.
Hagameir, Geo.
Neller, Louis
Nichols, Albert J.
Schmidt, Geo.
Stoll, Fred.
Stolte, Frank
LAURIUM—Anderson, Chas. A.
Vairo, Vincent
LUDINGTON—Wedmark, H. P. & Son
MANISTEE—Newcombe, R. J. B.
MARINE CITY—Rivard, Fred. L.
Zimmerman, C. F.
MARSHALL—Hart, W. C. & Son
MONOMINEE—Spaulding, E. P.
MOUNT CLEMENS—Hubarth, Schott & Co.
MUSKEGON—McIntosh, Alex
NEW BALTIMORE—Sommer, August
NILES—Asmus, Adam
Baker, M. D. (Brick Mason)
Beswick, H. C.
Dunn, F. W.
Smith, W. Hillis (Brick Mason)
Van Dusen, F. H.
Zwergel, Philip
PERRY—Green, M. H.
PETOSKEY—Kopke Bros.
McDonald, Dudley
Seibert, P. L.
PONTIAC—Heitsch Bros.
Slater Construction Co. (Large)
Stearns Bros.
PORT HURON—Germain, G. S. & Sons
Jenks-Wade Co.
Jones, Wm. E.
McMonagle, Timothy
O'Sullivan, James (Large)
Port Huron Construction Co.
Wilson, W. T.
PORT SANILAC—Schlichting, Henry
REPUBLIC—La Forais, Louis
SAGINAW—Arndt, F. A.
Aseltine, H. B.
Bamford, John F.
Blank, Leonard J.
Boehmer, M.
Bryce, G. C.
Burdick, C. P.
Damon, Chas.
Dittmar, L. C.
Fitzerald, C. R.
Ford, G. C.
Forster, R. R.
Fruechtel, John C.
Gelinas, A. & Son
Hagemeyer & Scully
Harrison, Arthur
Hausler, Henry
Hendrick, Roger C.
Hendricks, P. H.
Kerns, J. H.

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Kerns, Jas. & Son
Kerns, Thomas A.
Kerns, W. G.
Koenig, Adam
Mueller, W. C. (Brick), 116 N 6th
Leidlein, J. J.
Lincoln, A. H.
McElgunn, Jos.
Maturin, Andrew
Metcalf, E. B.
Mutscheller, Michael
Nickodemus, J. P.
Parth, John
Rock, John
Ruff, John M.
Runchey, J. G.
Ryckman, Albert H.
St. John, E. F.
Schaitberger, G. L.
Seiferlein, C. L.
Shimmons, C. H.
Sing, S. G.
Spence, Hugh & Bro.
Spindler, George
Stegmeyer, Jos.
Stevens, F. & R.
Taub, F. & Son
Terry, J. B.
Thurman, P. L.
Tucker, C. H.
Wynes, J. G.

ST. JOHNS—Pouch, Ananais
Pulfrey, Columbus F.

ST. JOSEPH—Stock, M. W.

WILLIAMSTON—Higbee, Hiram E.

WYANDOTTE—Belleville, Wm.

YPSILANTI—Norton, Frank A.
Wardner, Wm. F.

## MINNESOTA.

ADA—Gilge, E. A.

AITKEN—Holden, N. J.

ALBERT LEA—Tapager & Hanson

ALDRICH—Odden, S.

ALEXANDRIA—Alton, Thos. R.

ANOKA—Case Bros
Wasielewski, A. L.

AUSTIN—Martinsen, T.
Waterman, H.

BARNESVILLE—Tulley, D.

BEMIDJI—Atwood & Reeves
Johnson, Thos.
Kreatz, Geo. E.

BIRD ISLAND—Dresow, Frank

BLOOMING PRAIRIE—Thomas, A. C.

BRAINERD—Everett, Alonzo
Pearce, J. K.
Rowley, C. B.
Vaughn, J. F.
White Bros.

BRECKENRIDGE—Bedlinger, Jacob

CANBY—Bye, O. O.

CARLTON—Cain, W. M.

CARVER—Hanson, Olaf

CHASKA—Geiser, Frank

CLOQUET—Conners, Levi.
Long, John
O'Burke & Norberg

COHASSET—O'Brien, M.

COLERAINE—Boberg & Nelson Co. (Not Inc.)

CROOKSTON—Johnson, Louis
Ross, Chas.

DAWSON—Carson, J. W.

DELANO—Erickson, Swan

DETROIT CITY—Detroit Building & Mfg. Co.

DULUTH—Anderson & Gow, 322 W. 2d
Barr, David C.
Berg, Wm., 114 S. 18th av, E.
Berglund & Olsen, 2618 W. 2d
Bergquist Bros., Exchange bldg
Brown, H. C., 603 S. 71st av, W.
Campbell, L. & Co., Lonesdale bldg
Carlson, Frank A., 1913 E. 3d
Fawcett, Hugh, Mesaba blk
Fawcett, Wm., Woodland pk
Frederickson, C. J. (Mason), 931 E. 7th
Grandy, John, Burrows bldg
Hanson, Richard, 618 25th av, W.
Hillard, J. W. Co., Sellwood bldg
Jacobson, Jacob, Irwin Sloan bldg
Johnson, John A. (Mason), 4727 Magellan
Johnson, Otto (Large), 2615 W. 3d
King, W. F., Sellwood bldg
Knudson & Ferguson, 320 Michigan
Linden & Danielson, Torrey bldg
Lounsberry, G. H. (Large), Providence bldg
McLeod & Smith (Large), Sellwood bldg
Mueller, Nicholas, 813 E. 5th
Nauffts, Theophilus, Burrows blk
Nolan, John, Columbia bldg
Olson, O. W. (Mason), 424 9th av, E.
Paulson, Chas., 5708 Grand av
Pearson, Harry, 1018 E. 3d
Quigley, J. R. & Son (R. R. Buildings, etc.), Hunters pk
Ramstad, Louis (Brick), 5505 W. 6th
Robert, A., 1606 Minnesota av
Robert, J. A., 227 7th av, W.
Roberts, Kingston Cont'g Co., Lyceum bldg
Robertson, Archibald, 4715 Pitt
Roy, Joseph, 525 12½ av, E.
Schleunes, J. F., Manhattan bldg
Smith & Vokes, Exchange bldg
Thoburn, Thomas, Palladis bldg
Todd, Hugh M. (Mason), 4531 Cambridge
Waterworth & Fee, Torrey bldg
West, Cyrus J., Burrows bldg
Zauft, Emil J., 5810 Wadena

ELY—Dinsmore, John A.

ELYSIAN—Thompson, W. H.

EVELETH—Anderson, Gust

FAIRMONT—Petrie, G. W.
Popple, C.

FARIBAULT—Keuhl, A. F.
O'Neil, Jno.
O'Neill, William & Son
Peltier, C. H.

HASTINGS—Stewart, W. W.

LINDSTROM—Otis, Carl

LITTLE FALLS—Euke, G. H.
Harrison & Peterson (Large)
Kopacz, Frank
Molde, Andrew

MANKATO—Anderson, S. A.
Bishman Bros.
Carlson, Jno.
Mahlke, E. O.
Neitge, Otto
Nelsen, J. B. & Co. (Large)

MINNEAPOLIS — Anyon, Frank & Co., 2716 Lyndale av, S.
Archer, Geo., Boston blk
Archer, H. & Co., 314 10th, S.
Aronson, B., Boston blk
Baltuff, Guy M., 3433 Aldrich av, S.
Baltuff, Jos. M., 3233 Harriett av
Barnett & Record Co. (Grain Elevators & Heavy Structures)
Bauman, H. J., 212 4th
Benson, J. A., 2534 Dupont av, S.
Brown, J. Ernest, 3512 3d av, S.
Bruce, Nels, 2624 14th av, S.
Bryant, F. R., 12 Spruce pl
Buhl, L. & Co., 913 Hennepin av
Cedarstrand, A. & Co., 984 Central av
Chadwick, L. L., 112 E. Lake
Cheney, R. J. & Co., 716 11th av, S.
Chose, M. J., 3042 Hennepin av
Clark, W. O., 3348 Park av
Congdon Const. Co., Oneida blk
Constantine, John H., 112 Wash'n av, N.
Cooke, Geo., Boston blk
Cooper, Barcley, 1114 Yale pl
Craig, W. H. & Co. (Elevator Builders), 415 6th av, S.
Crawford, W. M. & Co., 14 4th, S.
Dahlin, John, 1711 E. Lake
Davis Const. Co., 304 Kasota bldg
Elliott, J. & W. A., Lumber Exchange
Elmburg Bros., 2738 Stevens av
Engquist, John, 3201 Colfax av, S.
Erickson, A. G., 404 Prior av, N.
Evenson & Madsen, 303 N. W. bldg
Fall Fred. H., 3625 Chicago av
Fisher, W. H., 817 Nicollet av
Fetterly, J. A., 2705 3d av, S.
Forsberg, P., 718 4th, S.
Giguere, Peter C. & Son, 411 Central av
Grady W. H. & Co., 367 Priar av
Gutzman, O. R., 213 8th, S.
Haglin, O. F., Lumber Exchange
Hagstrom, Chas. E., 819 N. W. bldg
Hall, W. J. Co., 1412 5th, S. E.
Halladan, Paul O., Guarantee Loan bldg
Healy T. P., 3115 2d av, S.
Heaton & Ellison, 1818 4th av, S.
Holwick, Thos., Lumber Exchange
Husby, Thos., 887 Raymond av
Ibberson, T. E. (Elevator Builder, etc.), Corn Exchange
Ingermann Co., 1930 St. Anthony av
Jeub, Herman, 2027 Crystal Lake av
Johnson, C., 2920 Nicollet
Johnson, J. A., 606 2d av, S.
Klarquist, S. M., Webb blk
Kneeland, E. & Co., 328 E. Grant
Lambert, Jules, 56 Norder av, N.
Larawa, J. B. & Son, 217 S. 5th
Lathrop, T. A., 112 5th, S. E.
Law, Paul A., 631 Jackson, N. E.
Leck, H. A. & Co., 2515 5th av, S.
Leck, Jas., 311 7th, S.
Leighton, H. N. Co. (Large), 213 16th, S.
Libbey & Libby Co., 244 2d av, S.
Libby & Nelson Co., 460 Temple Court
Lindquist, Gust., Bank of Commerce bldg
McMillan, F. G., 2 E. 5th, S.
Madsen, Mads., 2512 E. 22d
Melin Bros., Palace bldg
Moffett, C. W., 3008 4th av, S.
Myhr, John, 1200 18th av, N.
Newcomb, E. M., 915 2d av, S.
O'Brien, James, 704 20th av, N.
O'Donnel, Jas. S., 4118 Park blvd
Oyen, O. O., 315 3d av, S.
Palmer, F. A. & Co., 3040 Hennepin av
Parsons, Henry, Metropolitan bldg
Pelton, R. B., 418 6th av, S.
Pike & Cook, 416 5th av, S.
Pilgrim, Jas. E., 2828 Pleasant av
Pryts, Peter J., 3324 E. 24th
Raidt, Frank H., 1623 Dupont av, N.
Rhode, Erick, 1520 Adams, N. E.
Robinson, J. L., 511 S. 7th
Rydell & Carlson, 2308 2d av, N.
Schaper, August H., 1711 Emerson av, N.
Schumacher, Maurice, 39 Dill pl
Stenvig, John O., 2514 6th, N.
Swan, Andrew A., 2207 Irving av, N.
Swanstrom, Geo., 1604 University av
Theisen, M., 1905 Logan av, N.
Trainor Bros., 424 Boston blk
Tyler & Co., 717 6th av, S.
Vertz, Geo. R. & Co., 63 Oak Grove av
Welch, F. E., 1507 S. 3d
Winston-Dear & Co.
Woodruff, A. S., 501 E. 24th
Woodward, L. L., 315 2d av, S.
Wunder, John (Large), Lumber Exchange

MINNEOTA—Jonason, S. W.

MONTEVIDEO—Everson, Everett
Rodeberg, Thos T.

MOORHEAD—Bjorkquist, Carl
Fridlund Bros.
Merritt, W. H.

NEW ULM—Gronan, John G.
Kopp, Hermann
Puhlman, August
Schapekalm, Herman
Welland & Stegeman

NORTHFIELD—Johnson & Childs
Miller, Theodore

ORTONVILLE—Anderson, G. A.

OWATONNA—Hammel Bros.

PIPESTONE—Redmon, G. S.

RED WING—Johnson & Nelson
Longeer, W. J.

ROCHESTER—Pollock & Riedell

RUSH CITY—Poechman, Mathias

ST. CLOUD—Heimann, John
Kropp, Carl
Schellinger, Joseph
Steckling, Hy. P.

ST. JAMES—Anderson & Krone
Schweppe Bros.

ST. PAUL—Anderberg, P. A. & C., 399 Selby av
Andreen, Chas. J. (Mason), Smith & Chestnut
Baumeister, Wm., 1205 Ross
Brandhorst, J. H. 652 Mississippi
Bredy & Co., 383 Rosabel
Buell, C. J., 1546 Laurel
Carlson, A. J., 417 Sibley
Carlson, J. M., 229 W. 5th
Dahlman, Aron, 224 W. 5th
Daly Eugene J., 38 W. Lawson
Doherty, Patrick, 2078 Summit av
Dorrance, Geo. W., 568 Grand av
Doyle, Andrew, 292 Sturgis
Eggar, A. H., 705 Selby
Ellstone & Mortenson, 563 B'way
Erickson, A. G. (Large), 404 N. Prior av
Fahl, Daniel, 36 Stickney
Fitzpatrick Building Co., 17 W. 9th
Frandsen, H. J., 505 Rice
Frankman Bros., Globe bldg
Fransen, Nels P. & Co., Endicott bldg
Goss & Sleeger, 303 Jackson
Grady, W. H. & Co., 367 Prior av
Grant, Geo. J. Const. Co. (Large), N. Y. Life bldg
Guertin, Joseph, 20 E. 8th
Hagan & Kimmerstad, 449 Wacouta
Harmon, H. C., 349 Sherman
Hartigan, M. J., 475 Roberts
Hennessey, P. M. Const. Co. (Large), N. Y. Life bldg
Hoffman, John H., Cedar & Exchange
Holm, O., Smith & Chestnut
Hoy, W. J. (Large), Chamber of Commerce
Husby, Thos., 887 Raymond av
Ingemann Bros., 1930 St. Anthony av
Johnson, Axel, 66 W. 4th
Johnson, E. J., 902 Thomas
Kuhlman, L. S., 423 W. 7th
Larson, Louis J., 182 Milford
La Rue, Oscar R., 90 W. Winifred
Lauer Bros. (Stone Masons), Dayton & Summit
Linden, John O., 820 Payne av
Lone, J. B. & Son, 1190 Marshall av
Loyene, C. N., 984 Bayless
Molin, John, 677 Sherburne av
Murray, R. J. K., Nat'l Ger.-Am. B'k bldg
Nelson, John W., 863 Laurel
Nickel, J. H., Endicott bldg
Nickow, Louis, 160 W. 4th
Norlander, Fred. C., 1025 Bradey
Nyman, H., 744 Grand av
Nystrom, A. (Mason), 224 W. 5th
Oakes, Geo. W. & Co., 336 Endicott bldg
O'Connell, Daniel E., 301 Selby av

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Peterson, Emil, 804 Selby av
Rankin, Andrew, 484 Selby av
Rheault, Arius, 196 Central av, W.
Romer, F. J. Const. Co., 196 Ramsey
St. Paul Building Co., 460 Rice
St. Paul Contracting Co., Ger. Life bldg
Schmit, J. R., 630 Fuller av
Sinclair, Robert, 208 W. 5th
Skooglum, Chas., 6th & Smith av
Stanley, Fred., 195 W. 6th
Swanstrom, Geo., 1604 University av
Swenson, Olof, 945 Clark
Taylor, Matthew, 201 W. 5th
Telander F. G. & Co., 140 Mackubin
Thuemmel, E., 476 Roberts
Westby, Nick, 131 Concord
Wilcken F. J. & Co., 228 McBoal
Wildung, C. P., 325 Van Minden

ST. PETER—Brogan, Thos.
Frederickson, Ole
Olson, Albert S.
Smith, Jas.

SANDSTONE—Larson Bros.
Myer, W. S.
Northey, Miss Effie
Olson, O. H.

THIEF RIVER FALLS—Dorge, F. S. & Co.

TWO HARBORS—Johnson, A. L.
Pastoret & Lunz
Spurbeck, G. H.

TYLER—Johnson Bros. & Kruse

VIRGINIA—Butler, Chas. C.
Grande, Andrew
Johnson, Chas. A.
Olson, J. H.
Osterberg & Johnson
Rinnert, F. J.
Sampson, Jas.
Shaner, W. B.

WILLMAR—Bjorsell, Andrew

WINDOM—Christofferson & Westgard
Huseman, Fred.
Knopp, John
Lohse, John
Polzin, Frank H.
Siedlitz & Werner (Large)

WINONA—Abell & Brady Co. (Not Inc.)
Becker, K. G.
Becker, K. J.

WINTHROP—Lindstrom, A. P.

WORTHINGTON—Peterson, J. H.

## MISSISSIPPI.

ABERDEEN—Brannin, Addison

AMORY—Camp, J. R.

BAY ST. LOUIS—Gardebled, C.

BELZONA—Edwards, R. L.

BILOXI—Harkness, W. T.

BLUE MOUNTAIN—Robertson, W. L.

CLARKSDALE—Leonard, Jack

CLEVELAND—Nott & Ward

COLDWATER—Duboise, H. A.

COLUMBUS—McClannahan, D. S.
Stansell, Arthur
Stansell, J. P. & Son
Stansell, J. W.

COURTLAND—Brannum, M. C.
Huron, W. A.

CRYSTAL SPRINGS—Bennett, W. G.

GREENVILLE—Harty, J. J.
Hecker, Gus.

GREENWOOD—McGunnis, S. L. & Co.

GRENADA—Moss, W. H.

HATTIESBURG—Crymes, T. P.
Graham Construction Co.
Limbaugh, J. B.
Ward & Roberts

INDIANALOS—Chandler, W. H.

ITTABENA—Reese, R. C.

JACKSON—Barnes, J. F.
Garber, I. C.
Hull, F. B. Construction Co.
McGee, W. J.

KOSCINSKO—Storer & Miller

LAUREL—Norris & Gardner

MAGEE—Polk, H. A.

MAGNOTIA—Easley, W. W.

MERIDIAN—Carson & Richardson
Dabbs, C. H. & Co.
Hopkins, Fred.

NATCHEZ—Bost, R. E.

NEW ALBANY—Reeds, T. L.

OXFORD—Tyer, W. A.

POPLARVILLE—King, C. T.

PORT GIBSON—Jordon, E. C.

RICHTON—Blackwell, G. G.

SARDIS—Bridge, G. E.
Johnson, Andrew & Son

SENATOBIA—Mothershed, E. L.

TUPELO—Callow, W. G.

VICKSBURG—Beck, J. W.
Gregory, T. S.

WINONA—Gesty, R. & Co.

YAZOO CITY—Morford, Wm.

## MISSOURI.

ARCADIA—Miller, Louis

BOONVILLE—Cochran, W. J.

CAMERON—Dildine Bridge & Construction Co.

CAPE GIRARDEAU—Danes Bros.
Vogelsang Bros.

CARTERVILLE—Holman, M. A.

CARTHAGE—Bolle, N. E.
Davis, Leslie F.
Missouri Stone & Construction Co.
Ross, James S.

CHILLICOTHE—Glore, O. P.

COLUMBIA—Miller, F. P.

DE SOTA—Herman, Otto

EXCELSIOR SPRINGS—Pryor & Co.
Stawser & Bryan

FARMINGTON—McCarthy Construction Co.

HANNIBAL—Walley, E.

HARRISONVILLE—Jones & Edwards

INDEPENDENCE—Roberts, Thos. W.
Yetter, Christian

JOPLIN—Archer, L. D.
Bane & Hoffman
Burgehagen, Wm.
Henley, D. W.
Jones, J. L.
Joplin Construction Co.
Kee, A. J.
Lauderback, W. L.
Stange, H. F.
Thomas, John R. & Co.
Winterholder, C. W.

KANSAS CITY—Arrow Head General Cons. Co. (Not Inc.)
Boyd, R. J. & W. M. Construction Co.
Brown, Gen. L. & Son, American Bank bldg
Clay Construction Co.
Corcoran, James G. & Co.
Coumbe & Bachman Construction Co.
Crosby, L. & Sons
Cullen-McCurdy Construction Co.
Economy Construction Co.
Farmer, Lawrence Cons. Co. (Not Inc.)
Farney, A. W.
Freeborn Engineering & Construction Co.
Fuller, Geo. A. Cons. Co., Hall bldg
Gate City Contracting Co.
Green, H. M.
Hallinger, Job Construction Co.
Halpin, Dwyer, Construction Co.
Hayde, S. J. Cont. Co., 597 K. C. Life bldg
Hayes & Beverforden, Sheidley bldg
Henry, John
Home Construction Co., 1407 Walnut
Hone, John
Hucke & Sexton Cont. & Building Co.
Huggins, G. W., 216 Shukert bldg
Hurlbut, Frank A.
Kinghorn, Alex.
Kirn, Gottfried
Latimer, Frank H.
Launder, Construction Co. (Not Inc.)
Leviston, Walla, 14 W 3d
Love, James
Love, Wallace, 3801 Genesee
Ludlow, F. H.
McTernan & Halpin Construction Co.
Marshall, D. E. (Brick), 209 Postal Tel. bldg
Middleton, A. J. & Son Construction Co.
Morley, Patrick J., 1643 Wyandotte
Neevel, J. B., New Ridge bldg
Nilson, C. A., Scarritt bldg
Norton Bros.
Pfost Construction Co. (Not Inc.)
Reyborn-Laird B. & C. Co., Bryant bldg
Richards, E. F. (Brick), 1821 Paseo
Robertson, L. D.
Rowland, L. M. & Co., 1206 Forest av
Schwerger, T. G. Contracting Co., 1309 Balto. av
Sharp, C. H. Contracting Co.
Smith, Chas. C.
Stiver, Harvey
Stone, J. H., 4119 Oak
Swenson, Construction Co.
Tarbet & Byrne
Taylor & Winn, Mass. bldg
Thomas, J. D., 1312 E 33d
Turner Bros.
Urban Construction Co.
Western Contracting Co.
White, J. C., 3223 Washington
Wilson, W. A., 613 Postal Tel. bldg

KIRKSVILLE—Anderson, C. C.
Holmes, A. L.

LIBERTY—Hayes, B. F.

LOUISIANA—Stewart, Ralph

MARSHALL—Page, E. R.
Rose Bros.

MEXICO—Reid, A. F.

NEVADA—Beagle & Dye
Daly, J. A. (Large)

ODESSA—Ryland, F. M.

RICH HILL—Jaeger, G.

ST. CHARLES—Pfaff, Jno.

ST. JOSEPH—Arnhold, Geo. & Son
Hotchkiss, Sam
Lehr, J. W., 1702 Fredrick av
Stamey, J. W.

ST. LOUIS—Alles Herman, 2322 Athlone av
Althans Construction Co., 810 Olive
Anderson, A. & Co. (Large), Victoria bldg
Anderson, John H. & Co., 2722 Henrietta
Anger, John, 3136 New Ashland pl
Bardsley, Edward, 2842 Belt av
Barnes, W. W. & Co., 1522 Chestnut
Barry, Wm. D., 3829a Sullivan av
Bauer, Herman, 2126 Nebraska av
Beetz, Henry C., 2664 Nebraska av
Beinke, Henry F., 4807 Cote Brilliante av
Black, James Masonry & Contracting Co., Wright bldg
Boland, John V. Construction Co., 721 Olive (Not Inc.)
Borneman, John, 6212 Gravois av
Botts, W. P., 6505 Michigan av
Brewster-Ames Building Co., 810 Olive
Bright, James H. Contracting & Building Co., 706 Chestnut
Brockett, John M. Contracting Co., 4408 Vista av
Broderick, John J., 5711 N Market
Bush, Wm. R. Construction Co., 211 N 7th
Casey & O'Keefe Construction Co., 816 Olive
Chapline Realty & Cons. Co., 407 N 8th
Charleville, Benj. G., 1107 Chestnut
Clostermeyer & Green, 3047 S B'way
Cooney Construction Co., 122 N 7th
Crosby, H. W., 4048 Evans av
Crotty, M. M. & Son, 4347 Finney av
Daman, Wm., 810 Olive
Danes Bros., 2736 Chariton
Denham, Wm. L., 407 N 8th
Dentman, Richard, 7027 Michigan av
Diedrick, Chas. G., 1418 S 18th
Dilschneider, John, 5722 Etzel av
Dooley, Frank X., 4368 Delmar blvd
Dooley, James, 4208 Delmar blvd
Duffner & Stecker, 113 N 11th
Edwards Bros., 816 Olive
Elias, Wm., 4245a Finney av
Ellerman, E. August, 3446 Sidney
Erdbruegger & Beumer, 2909 Nat. Bridge rd
Evans, Daniel Const. Co., 816 Olive
Evans, Lewis J., 203 N 10th
Eyssell, M. Construction Co., 420-21 Odd Fellows bldg
Ferris, Wm. H., 816 Olive
Fischer, A. A. Architectural & Building Co. 728 Chestnut
Fischer, Carl G., 4214 La. av
Fitzgibbon, J. D., Chemical bldg
Flannery, Joseph, 1420 Morgan
Fleming, Alex., 5141 Ridge av
Frein Building Co., 1113 Chestnut
Frieling, Christian 3240 N 20th
Gaertner, Aug. H., 2045a Adelaide av
Galvin, Jas. B., 4589 Easton av
Geisel Construction Co., 620 Chestnut
Gerber, G. L., 3705 Juniata
Gerhard, E. C. Building Co., 805 Victoria bldg
Germania Cons. & Building Co., 1340-42 Syndicate Trust bldg
Gillespie, R. M. (Brick), 816 Olive
Globe Construction Co., 721 Olive
Gray, C. L., Construction Co. (Large)
Griffith, Wm. F., 816 Olive
Grone, L. H., 202 N 9th
Haase, Christ. E., 2808 S 9th
Hartman Bricklaying & Cons. Co., Odd Fellows bldg
Harvey & Hall, 721 Olive
Helm, John, 4223 Louisiana av
Heman Construction Co., 122 N 7th
Heman, Harry F., 721 Olive
Hennessy, John M., 4592a Evans av
Hill-O'Meara Construction Co., 1413 Syndicate Trust bldg.
Hinchman-Renton, Cons. Co., 922-23 Holland bldg
Hinricks, J. G., 7509 Virginia av
Hoffman Contracting Co., Globe-Democrat bldg
Hogg & Reid, 407 N 8th
Imkamp, Chas. A., 3152 School
Jones, S. L. Building Co., 620 Chestnut
Karberg, Fred. A., 620 Park av
Kelleher, J. P., 1723 Bacon
Kellerman Contracting Co., Roe bldg
Kiel & Danes, Bricklaying & Contracting Co., 816 Olive
Kirkwood, Matthew, 3955 Page boul
Kohlmeyer, A. H., 810 Olive
Kuhlman, Chas. F., 2203½ Sullivan av
Kuhnert, John L., 4246 Easton av
Lang, Florian, 708 N 3d
Lee, T. C., Architect & Building Co., 511 Merchantile bldg
Lloyd, Hiram Building & Cons. Co., 816 Olive
Lohman, Wm. H. P., 3841 Indiana av

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Louisiana Contracting Co., 3839 Duncan av
Low, Jno., Benoist bldg
Loyd, Robert J., 4145 Magnolia av
McClure, Richard P. Construction Co., 203 N 10th
McCormack-Combs-Brainerd, Cons. Co., 802 Columbia bldg
McCully Construction Co., Houser bldg
McInroy & Cousins, 4732 Vernon av
McKelvey Construction Co., 816 Olive
McCrea, J. R., 1712 Arlington
McMahon, John J., 3313 Easton
McTaggart, Edward, 202 N 9th
Manning, L. W. & Son, 24 S 11th
Matheson & Baker, 3662 Park av
Mayer, Benedict, 217 Lafayette av
Merton, S. D., 319 N 4th
Midland Contracting Co., 509 Chestnut
Milburn & Rich, 207 8th
Milne & Gordon, S Jefferson av nr Mo. Pac.
Mockler, Thos., 4478 McPherson av Ry.
Morley Bros., 1727 S Jefferson av
Morrison, R. W. Construction Co., 722 Moynihan, P. J., 1918 Olive Chestnut
Mueller, Albert A., 2712 Virginia av
Mueller, F. C. & Bro. Const. Co., 717 Locust
Mueller, Jacob J., 2915 Indiana av
Muir, M. W., 816 Olive
Mulcahy, Patrick, 3216 St. Louis av
Murch Bros. Construction Co., Odd Fellows
Neir, Samuel, 1039a Marion bldg
Neuroth & Lindner, 3425 Oliver
Nicolson, Theo., 4700 Cook
O'Brien, Jos. H., 4728 McMillan av
O'Malley, John, 1447 Sarsfield pl
Paulus, Robert, 2205 Ann av
Peters, H. L. & Son, 2758 Gravois av
Petty, Benj. Contracting Co., 2413 N 9th
Pipe, Edward C., 5619a Maple av
Pollman, Aug. F., 2417 Indiana av
Prendergast, Geo. G. Construction Co.,
Price, G. D., 722 Chestnut Chemical bldg
Raithel, Eberhard, 4018 Grove
Raterman Building & Contracting Co., 1943 St. Louis av
Re-Inforced Concrete Construction Co., 803 Columbia bldg
Reinschmidt-Hanni Cons. Co., 906 Olive
Remmers, Harry J., 1015 Goodfellow
Remmers, Jacob H., 1318 Allen av
Rich Construction Co., 510 Pine
Riechers, Chas. P., 2815 St. Louis av
Riley, Wm. F. Const. Co., 617 Chestnut
Robinson, J. C. & Son (Large), Lindele blvd & Newstead av
Roeder, Geo. W., 2924 Magnolia av
Roehl, E. J., 2920 Hickory
Ruhaack, U. F., 2625 Texas av
Rupp, J. F., Building & Contracting Co., 1901 E Warne av
Ruprecht, Wm. & F., 8011 S B'way
St. Louis Contracting Co., Odd Fellows bldg
Saltmarsh, Dan. R., 3837 Easton av
Sanquinet, R. V. Arch. & Bldg. Co., 407 N 8th
Schaefer, Jos. B., 7227 Michigan av
Schaperkoetter, Louis, 4015 N 25th
Schatz, Adolph, 5212 N 21st
Schenck, Jacob Building & Contracting Co., Salena c Penn
Schneider, Peter, 2508 Elliott
Schober, Frank E., 3116 Eads av
Schubert, Wm., 2140 Allen av
Schuler, C. W., 2842 Texas av
Schulte, W. H., 8337 Emma
Schultz, Bernard, 4120 N Taylor av
Schultz, Chas., 3419a Humphrey
Schumacher, W. A., 609 Leggett bldg
Selden-Breck Cons. Co., Fullerton bldg
Settle, J. C. & Co., 810 Olive
Shasserre, E. P., 202 N 9th
Shinnick, Richard, 4186 Morgan
Sinclair Quarry & Construction Co., 620 Wainwright bldg
Skrainka Cons. Co., 806 Security bldg
Smith, Thos. L., 1962 Semple av
Spore, H. C., Ozark bldg
Stansburg, James A. & Bro., 816 Olive
Stedger, John H., 819½ N 10th
Steininger, E. A. Construction Co., 407 N
Stevens, David, 2815 Clark av 8th
**STEWART, JAS. & CO., New Nat'l** Bk. of Commerce bldg
Storck, H. & Co., 819 N 11th
Sullivan, John, 2026 E Harris
Sullivan, Michael G., 4291 Margaretta av
Sutherland, Wm. M. Building & Cons. Co., Victoria bldg
Taussig, A. J. Building & Contracting Co. Navarre bldg
Taxis, Harvey Construction Co., Victoria
Theby, Michael, 7316 Michigan av bldg
Thomas, L. A., 3205a S 7th
Thomson, Henry, 4843 Cote Brilliante av
Tranel, Geo. H., 2229 Madison
United Building & Cons. Co., 717 Locust
U. S. Conduit & Cons. Co., 407 N 8th
Vickery, Henry H., 5166a Fairmount av
Vollmer, Aug., Jr., 5246 Northrup av
Voss & Korte, 2346 Palm
Wade Bros. Construction Co., 2272 Old Manchester rd
Wagner, E. L. Construction Co., 506 Victoria bldg
Wahlers, Wm. G. C., 3543 Wyoming
Walchshauser, John, 2800 Texas av
Ward, Edward, Chemical bldg
Ware, J. A. Construction Co., Houser bldg
Wende, Frederick, 2613 N Spring av
Westlake Cons. Co. (Large), 717 Locust
Wharton, J. J., 2829 University
Widdicombe, E. H., 816 Olive
Widdicombe, Richard, 620 Chestnut
Widmaier, Wm., 2262 S Jefferson av
Williams, W. H. & Son, 704 Chestnut
Wilson, J. W. & Son, Odd Fellows bldg
Wind, Anton, 1026 N 14th
Wise, Julius H., Victoria bldg
Wisman, Lorenz & Co., 3009 St. Vincent av
Woitchek, E. G., 813½ Chestnut
Wright-Gallagher, Cons. Co., 408 Chemical bldg
Zabaren Cons. Co., 926 Victoria bldg
Zadow, Henry R., 6007 Virginia av
Zeller, Geo. P., 4524 Chouteau av

SEDALIA—Johnson, T. H.
SPRINGFIELD—Bearden, B. F.
Bowman, A. R.
Bowman, T. K.
Budlong & Son
Burgin, William
Gear & Shinn
Humphrey, T. K.
Killbuck, H. W.
Landers & Davis Mfg. Co.
Lloyd Bros. (Brick Masons)
Mansell & Bulger
Myers, H. T.
Schumaker & Son
Sharp, W. L. & Son (Masons)
WEBB CITY—Helm, E. T. (Brick)
Smith Bros.
Tarrant Bros.
Wiggington & Milton

## MONTANA.

ANACONDA—Hamill & Caluan
BILLINGS—Billings Construction Co.
Gagnon & Company
Welch & Cederholm
BOZEMAN—Morris, Peter T.
Vreeland, F. W.
BUTTE—Goddard, C. C.
McCafferty, A. P.
Montana Construction Co.
McSherry, M. D.
Smith, G. M.
Walsch, W. E.
Welch, Jas.
Wortman, Geo. & Co.
FORSYTH—Robinson, L. W.
GREAT FALLS—Coombs, Frank
Donlin, Jas. H.
Lease &, Richards
HARDIN—Gray, A.
HAVRE—Fuller & Bossnet
HELENA—Benson, Ben.
Dryburgh, John
Gebhardt, Henry
Jacoby, Cas. J.
Koetitz, Paul
Smith, Hadley
Wagner, Edw.
MILES CITY—Northwestern Building Co.
MISSOULA—Gibson. A. J.
MUSSELSHELL—Claseman, H. J.
WARM SPRINGS—Mitchell & Mussigbrod
WHITCOMB—Baker Bros.

## NEBRASKA.

ALLIANCE—Reck, S. C.
ALMA—Hostetter, J. E.
ARAPAHOE—Distrow, Edward
COLUMBUS—Ochiltree, H. M.
FALLS CITY——Heineman, C. H.
FREMONT—Denny, P. D.
DAVID CITY—Bushell, W. H.
GRAND ISLAND—Geer & Harrison (Large)
HASTINGS—Cowten, H. H.
LINCOLN—Assenmacher, W. G.
Bush (Mason)
Campbell, C. D., 1702 S 11th
Campbell, J. A. & Son
Campbell, W. L., 921 Peach
Harrison, T. P.
Jensen, Louis (Large, Mason)
Shaul, Geo. A. (Mason)
Stephens Bros. Co. (Large)
LOUP CITY—Ohlsen Bros.
NEBRASKA CITY—Hoops, E., 1313 Central av
OMAHA—Ahern, Wm.
Anderson, James Jr.
Beck, Alexander
Berkshire & Son
Bilger, Curtin W.
Borchman, Albert O.
Buck, George W.
Busk, Andrew
Butke, Robert
Carter, Noah E.
Christianson, Fred. & Son
Collins, George J. S.
Creedon, P. J. & Sons
Davis, Samuel D.
Deverell, William P.
Doedyns, James C.
Everitt, Wm.
Flesher, H. A.
Ford, Michael
General Construction Co.
Goodrich & Goodrich
Grove-Wharton Construction Co.
Hall, E. C.
Hamilton, R. P. & E. O.
Hardy, John A.
Harte, John H.
Hastings & Heyden
Henderson, Wm. & Son
Hokanson, Chas. W.
Jobst, Bernard J.
McKay & Cathroe
Merriam, J. E. (Brick)
Metropolitan Construction Co.
Newman & Johnson
Ordens, Frank A.
Parsons & Kiene
Peterson Bros.
Peterson, Wm. & Sons
Powers, M. J.
Prendergast, John
Redgwick, Wm.
Rocheford, Wm. & Son
Shane, Daniel L. (Brick)
Strechlow, Robert C.
Traver, Chas. P.
Watt, Joseph I.
Weeks & Voos

## NEVADA.

CARSON CITY—Hudenreich, Henry
ELKA—Nelson, N. P.
Noland, W. H.
ELY—Dobson, Bros.
Schraven, J. F. & H. E.
GOLDFIELD—Corregan, G. S.
MANHATTAN—Cook, Joseph
RENO—Burke Bros.
Paterson, Andrew
TONOPAH—Flenley, J. J.

## NEW HAMPSHIRE.

ALSTEAD—Dickey, John F.
AMHERST—Burtt, Edwin K.
ASHLAND—Fillfield, Frank
ATKINSON—Mason, S. Burleigh
BERLIN—Rowell, H. C.
Stewart & Snodgrass
BRADFORD—Hemphill, George A.
CANAAN—Welch, Wm. H.
CENTER HARBOR—Leighton, James P.
CHESTER—Hardy, Albert M.
CLAREMONT—Beckwith, H. R., Union blk
Stockwell, George T. Tremont sq.
COLEBROOK—Hicks Bros.
Spencer, John
Young, Ellsworth D.
CONCORD—Fellows, C. L. & Co. (Masons)
Horne & Hall
Hutchinson, E. B. Bldg. Co. (Masons)
Rowell & Plummer (Masons)
Sargent, Walter H.
Swain, C. H., Ferrin blk
Virgin & Forest (Masons)
CONWAY—Chase, John F.
Sawyer, I. A.
Whittaker, John T.
Wiggin Bros.
COOS—Davidson, John L.
Golbert Construction Co.
DERRY—Bradford. Calvin H.
Griffin, Oscar C.
Martin, Cyrus A.
Proctor, Gilbert H.
DOVER—Beede, Augustus H., 20 Mt. Vernon
Bishop, R. G., 8 Fisher
Blanchord, Jno. H.
Coleman, W. S.
Cornell, John
Dorr, Chas. C.
Frost, E. H., 270 Central av
Langley, Currier W.
Moulton, Otis E.
Palmer, Orrin

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Roberts, Preston F.
Shaw, H. M., 14 Hough
DUBLIN—Patterson, Herbert A.
Sander, Thos. W.
DURHAM—Bunker, John J.
EAST JAFFREY—Hodge, Harlon F.
EPSON—Holmes, Hiram A.
EXETER—Exeter Construction Co.
Stewart, B. D., 14 First
Twombly & Son
Webster, Geo. A.
Wiggin, Orlando R.
FARMINGTON—Copp, F. R.
FRANCESTOWN—Colburn, Ephraim W.
FRANCONIA—Whipple, Elmore
FRANKLIN—Babbitt, C. M. (Large)
Dresser, Jno. W.
Felch, Fred. A.
Kimball, Benj. F.
Morrison James O.
Norwell, Jas. C.
Putney, Nelson J.
GOFFSTOWN—Dodge & Barnard (Large)
GORHAM—Willey, J. E.
HAMPTON—Dearborn, Samuel W.
Joplin, Abbott L.
Stevens, Chas. V.
HANCOCK—Wood, J. Frank
HANOVER—Bond, John J.
Porter, Asa
HENNIKER—Bunnell, Seth A.
HILLSBORO—Annis, Leon D.
Rumriel, Peter & Sons
HOLDERNESS—Long, A. C.
Perkins, John H.
HOLLIS—Gates, Wm. J.
HUDSON CENTER—Smith, Isaac
INTERVALE—Ward, A. R.
JACKSON—Harriman, Andrew C.
KEARSARGE—Nute, J. L.
KEENE—Burnham, F. K., 66 Mechanic
Gordon, Geo. A., 64 Beaver
Poole, George E.
Purcell, Henry, Railroad
White, C. M., Leverett sq
LACONIA—Davis, A. L.
Guay & Wallace
Marceau, Gideon
Stone, Harvey H.
Stone, H. S.
Thompson, Carl B.
Thompson, Henry H.
Tucker, Wm. H.
LAKEPORT—Meader, John M.
Merrill, Geo. D.
Muzzey, Orvis T.
LANCASTER—Sherwood, W. H.
Simonds, E. E.
Smith, John H.
Stebbins, Jas. A.
LEBANON—Phelps, H. F.
LISBON—Gondie, Lawrence W.
Morgan, S. D.
LITTLETON—Bishop, Henry D.
Fogg, E. O.
Pennock, Ira F.
LONDON CENTER—Tilton, B. F.
MANCHESTER—Bixby, Clinton H.
Brendle, Frank J.
Brunelle & Co.
Bunton & Bernard
Burton, J. F. (Stone)
Colburn, C. H.
Cross, Edward J.
Dana, Joseph
Demers, Jos. C.
Eastman Bros. (Masons)
Granite Const. & Realty Co.
Grenier, Alphonse
Head & Dowst Co. (Large)
Holbrook, George
Laflamme, Frank X.
Landry, Wm. G. (Stone), 390 Cedar
Larivere, Gideon
Lemire, Napoleon (Mason)
Lodge, Ernest L.
Manchester Real Estate & Mfg. Co.
Marston, Geo. H. (Mason)
Mendell, J. H. & Co., 1276 Elm
Osberg, Sam
Paige, Nelson W.
Piper, H. A., 112 Manchester
Provost, F. T. & Co., 21 Amory
Seward, Jno. F., 27 Warren
Veasey, E. B., 383 Concord
Whittemore, Cyrus
Wilson, Jno. K.
Wilson, Wm. C.
Wyman, H. S.
MELVIN VILLAGE—Hunt, C. R.
MEREDITH—Bartlett & Smith
MILFORD—Brooks, Ernest C.
Cassidy Bros.
Demontigny, Henry
Johnson, Keith
Winslow, Worcester L.
MOULTONVILLE—Connor, Chas. L.
NASHUA—Atwood, Henry O.
Chagnon, Alphonse, 103 Ash
Cone & Mailhot, 9 Clinton
Erb, W. M. & Co.
Gibson, E. J., 56 Lake
Gibson, Harry W.
Holt, Duane F. & Son, 282 Main
Nashua Building Co.
Osgood Construction Co.
Sanders, James A., 7 Union
Spalding, Chas. C., 34 Norton
Tetrault, Adolph J.
Watson, Jas. F.
Willard, George A., 115 Vine
NEW BOSTON—Marden, Chas. F.
NEW CASTLE—Davidson, Geo. H.
NEW HAMPTON—Tilton, Joseph C.
NEWINGTON—Hoyt, Benj. S.
NEW LONDON—Smith, R. F.
NEW MARKET—Griffin, Maurice N.
Herson, Louis & Co.
NORTH HAMPTON—Brown, Irving W.
Moulton, Warren B.
NORTH HAVERHILL—Coburn, Willard W.
NORTH WEARE—Hadley, Harry A.
PENACOOK—Barnett, Chas. H.
Chandler, Wm. P.
Morrill, Henry
Sebra, Louis J.
PETERBORO—Nickols, Wm. K.
PITTSFIELD—Caswell, Louis L.
Winkley, Herbert C.
PLYMOUTH—Emerson, Thos. I.
PORTSMOUTH—Chickering, Jas. E.
Cox, Geo. E.
Dame, Byron
Hodgdon, W. A.
Holmes, Chas. H.
Humphreys, Chas. W.
Ireland, Wm. W.
Junkins, Albert R.
Kiernan, W. F.
McKenney, N. A. & Co.
McNabb, E. N.
McNeil, Fred.
Magraw, Chas. H.
Manning, C. H.
Marden, J. W.
Paterson, Edward
Pendexter. Daniel P., 13 Hanover
Spinney, Frank A.
Sugden Bros., 27 Cabot
Trefethen, E. W. (Mason)
Trueman, Sidney S.
Weston, W. R.
RANDOLPH—Boothman, John H.
RAYMOND—Healy, Edward S.
ROCHESTER—Dame, John W., 20 Pine
Letourneau, Jos.
RYE—Rand, Chas. M.
SALEM DEPOT—Bailey, Loring E.
Borchers, Chas. H.
Thom, Geo. W.
SANDOWN—Kelly, John D.
SPOFFORD—York, J. W.
STRATHAM—Brewster, Frank H.
SUNCOOK—Batchelder, Geo. F.
Colby, James D.
McDonald, Moses
TEMPLE—Tuttle, Frank A.
Tuttle, James S.
TILTON—Cross, Fred. H.
Gilman, Frank A.
Lawrence, Frank P.
Page, Daniel M.
Sanborn, Ford T.
Sargent, Wm. C.
Worthen, Arthur L.
WEST SWANZEY—Nash, O. C.
WHITEFACE—Weed, L. D.
WHITEFIELD—Thayer, Harvey A.
WILTON—Emerson, Henry L.
Robbins, Chas. E.
WINCHESTER—Hildreth, E. C.
WOLFBORO—Goodwin, J. F.
Hershey, Fred. E.
WOODSVILLE—Gordon, James
Lowe, James R.

## NEW JERSEY.

ALLENDALE—Van Blarcom, S. G.
ALLENHURST—Morrow, Geo. D.
ALLENTOWN—Vanhorn, Chas. P.
ALLOWAY—Bee, Geo. E.
ANDOVER—Snyder & McCreddon
ANGLESEA—McLinden, Jas.
ARLINGTON—Abel, Alvah W.
Bellis, Wm. C.
Dunn, J. J. (Mason)
Harrison, A. E.
Jersey, S. Y. & Co.
Pierce, Cyrus A.
Rogers, J. S. Co.
Salmond Bros. Co.
ASBURY PARK—Burke, John
Burton, Darius E.
Lippincott & Son
Martin, J. W.
Reed, T. R.
Smock, B. L.
Taylor, I. R. & Co.
ATLANTIC CITY—Albertson, Smith J.
Balestrieri, R. & Co.
Beaumont, Wilbert
Buckley, Elwood
Conover, Josiah
Cramer, Augustus
Creighton, J. H.
Cunningham, Frank M.
Goff, Garner T.
Hampton Bros.
Headley, Samuel H.
Henry, Lemuel H.
Higbee, Wilbert S.
Horner, Chas. F.
Ingersoll & Weeks
Knauer & Co.
Kohl, Chas. R.
Lee, Edward S.
Marcus, Andrew
Mathis, Hiram
Mathis, Job & Son
Miller, Augustus C.
Moore, Alfred
Mulock, H. G. & Co.
Parsons, Howard
Scull, Harry G.
Smith, Ellsworth E.
Smith, W. H.
Steelman, Jas. E.
Thompson & Stiles
Young, Nicholas W., 13 S Ohio av
ATLANTIC HIGHLANDS—Miller, Calvin W.
Monmouth Contracting Co.
Roberts, D. J.
Stout, Jacob T. & Son
Wells, Wm. L.
Woodward, John
AUDUBON—Lange, Fred.
AVALON—Holmes, Hughes H.
Kates, Geo.
BARNEGAT—Tolbert, A. H.
Tolbert, Harry A.
BARNSBORO—Skinner, John T.
BASKING RIDGE—Allen, J. Walter
Allen, Samuel A.
Benden, Geo.
Snable, Sidney
BAY HEAD—Ferry, F. Jr.
Morton, Jos. F.
BAYONNE—Ahlfeld Bros. & Co.
Bayonne Building Co.
Bunn, John W.
Cane, W. H. & F. W.
Eberling, S.
Kolender & Beck
Konigsberg Bros.
McCabe Bros.
Odell, S. M.
O'Leary, J. & Sons
Pharo, J. Anderson
Sippel, Gustav
Stringham, M. V.
Tocci, Nicholas
White, Michael
Winters, H. W.
BEACHHAVEN—Butler, Wm. L.
Hewitt, H. C.
BEDMINSTER—Flomerfelt & Huyler
Tuttle, John W.
BELLEVILLE—La Faucherie, John C.
Mellis, Daniel
Mutch, Edw. J.
Travers, John
Williams, Robert H.
BELMAR—Hutchinson, Forman S.
Pierce & Mount
BERGEN FIELD—Abrahams, Oscar
Bogert, Harry
Demarest, Chas. L.
Demarest, Wm.
BERNARDSVILLE—McWilliams, H. & J.
BEVERLY—Hammel, Joseph E.
Kolster, Joseph E.
Merrit, Theo. G.
BLAIRSTOWN—Logan, J. R.
BLOOMFIELD—Butterworth, G.
Dodd, Jos. A.
Griffith, Eben L. (Mason)
Jacobus, Geo. (Mason)
King, Hugh D.
Moorman Bros. (Masons)
Raab, Wm. R.
Schofield, G. H.
Twidle & Boyd
Walter, A. (Mason)

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BLOOMINGDALE—Mead, S. & W.
Provost, J. H.
Sisco, John F.
BLUE ANCHOR—Hunter, Erford C.
BOGOTA—Boros, Michael
BOONTON—Miller, E. S.
Simons, J. G.
Tompkins, Daniel D.
Van Ness, Josiah
BORDENTOWN—Herbert, Thomas
Higgins, Jos. W.
BOUNDBROOK—McNab, Jno.
McNabb, Jno. & Chas.
Miller, Jas. F.
Miller, J. Theodore
Moorecraft, Wm.
Stryker, Geo.
BRADLEY BEACH—Bennett Bros.
BRANCHVILLE—Thompson & Price
BRIDGEBORO—Gaskill, Rodman P.
BRIDGETON—Bacon, Smith
Conover, Albert
Elwell, Hy. C.
Lupton, Alfred H.
Pierce, Wm. H.
Sharp, Leander
Steelman, Joseph
Williams, Mark H.
BURLINGTON—Keple, Atwood
Lippincott, J. D., 165 W Broad
Norcross, J. J., 450 Locust av
Williams, Harry H.
BUTLER—Gormley, Chas.
Shippie, Jno.
CALDWELL—Beach, Joseph E.
Beach & Welton
Gould, Wilbur B.
Harrison, Samuel D.
Paddock, Sherman & Son
CAMDEN—Anderson & Brogan
Bachmann, Geo.
Barcklow & Fulton
Baxter, Charles E.
Bleakley, J. W. F. & Co.
Draper, James W.
Foulkes, Harry L.
Fraizer, Wm. L. (Brick)
Hinchman, Henry G.
Holl, Lewis S.
Horlbeck, Charles R. (Brick)
Howell, E. W.
Jones, Edwin F.
Larsen, Mockett Construction Co.
Lorigan, Wm. H.
Manning, John H. (Brick)
Mansfield, Harry
Pike, Lemuel H.
Pine, H. Howard
Severns, William
Sharp, Daniel H.
Shuster, Charles H.
Townsend, John S.
Turner & Stewart (Large)
Wells, Robert M.
Welsh, John J.
Wrifford, William
CAPE MAY—Cassaday, Wm. F.
Garretson, Chas. T.
Godfrey, Hiram W.
Hanes, Jos. H.
Hoffman, Reuben S.
Sickles, J. Edward
York Bros.
CARLSTADT—Kastner & Semper
Kock, Julius Co.
Letzelter, Peter
Rasmus, John N.
Ruezinsky, Harry
CARTERET—De Bow & Glendining
Hansen, Hans
CHANGEWATER—Castner, Theodore
CHATHAM—Collins & Lersch
Miller, C. J.
Reed, R. D.
Trowbridge, Alfred M.
CHATSWORTH—Adams, Chas. E.
CHROME—Koed, Soren
McCarthy, Philip D.
CLAYTON—Downs, Samuel
CLIFFSIDE—Richard, C.
Thiel Contracting Co.
CLIFTON—Brackett, G. F.
May, Jas. & Son
CLOSTER—Bell, Wm. H.
COLDSPRING—Hoffman, Joseph
Woolson, Albert H.
COLLINGSWOOD—Doughty, Andrew K. H.
Fletcher, Chas. S.
Gill, Henry
Jaggard, John
McGill & Loper
Patterson, Walter L.
COLUMBUS—Nixon, A., Jr.
Page, Abner J.
COYTSVILLE—Brannigan, T.
CRANBURY—Scott, Harry N.
CRANFORD—Currie, D. B.
Dickenson, Frank R.
Fox, Chas. J.
Gabbett, John
Kreiel, Deidrich
Loveland, Lyman J.
Moore, Jas. G.
Teichman, Carl
CRESSKILL—Westervelt, Simeon
CRYSTAL LAKE—Bush, C. H.
DELANCO—Hamlin Bros.
DELAWARE—Denee, Alfred M.
DENVILLE—Ellsworth, Joseph
DOVER—Drake Bros.
Fanning, Thos. (Mason)
Shoemaker, Abram L.
DUMONT—Jacob & Graves
Russell, Omar G.
Van Orden & Hopper
Waldron Bros.
Whitaker, Benj. J.
DUTCH NECK—Bowers, Lewis O.
EAST NEWARK—Duffy, Thos.
Hoffman & Grafe
Launghlin Bros.
McGlennon, Patrick
Mather, G. W. & Son.
EAST ORANGE — Apgar & Co. (Inc.), 6 N. Maple
Barrasdale, Jas. G., 237 Elmwood av
Cronsbrey, Geo. H., 52 Sanford
Curtis Bros., 39 Main
Cyphers, L. W., 171 Dodd
Cyphers, Samuel, 35 McKinley av
Davis, Jos., 138 Elton pl
Doremus, Elijah, 174 Main
Grobert, Henry, 246 S. Clinton
Harrison, Robert, 276 Elmwood av
Hartman & Chalmers, 202 Sanford
Hickson, Wm. T., 334 Central av
James, Wm. T., 125 N. Maple av
Kelly & Boland (Masons), 75 Sanford
Kennah, Wm. C., 175 William
Larson, L. A., 337 Central av
McDermott, Robert, 382 Main
McGovern, Bernard, 46 Shepherd av
Morel, C. A., 253 Burnett
Olsen & Lenart, 482 Main
Rowe & McCallum, 66 Hollywood av
Shauger, J. Andrew, 1565 Munn av
Shauger, John W. (Mason), 16 Sterling
Smith, P. H., 34 Amherst
Steele, Wm. Sons Co., Lawrence
Stewart & Co., 536 Main
Struck, Frederick M., 22 R. R. pl
Van Horn, Wm. T., 7 Charles
Walters, Geo. H., 233 S. Clinton
Warren, Albert E., 65 Greenwood av
Weber, Frank F., 12 Washington
EATONTOWN—Walters & Minton
ECHO LAKE—Speaker, Chas. H.
EDGEWATER—McGarry, John J.
Reid, Ralph H.
White, Geo. C.
EDGEWATER PARK—Pennington, E. E.
Shaner & Miller (Large)
EDINBURG—Tindall, John Henry
EGG HARBOR CITY—Green, Jacob
ELDREDGE—Cummings, Wm. L. & Son
Ewing, Samuel E.
Hand, Walter N.
ELIZABETH—Applegate's, John K. Sons, 136 B'way
Barnes & Van Bergen
Beglan, Michael, 428 Fulton
Bretthauer Bros., 614 1st av
Budd, Thomas B., 318 Morris av
Byrnes, Michael Building Co. (Large), 430 Westfield av
Calabro & Co. (Masons), 527 4th av
Clifford, Wm. (Large), 360 Union av
Cole & Booth (Masons), 568 Adams av
Connelly & Franklin, 629 Franklin
Craig, Chas. A., 83 Bayway
Dippel, Daniel, 533 Franklin
Elbacher, Charles (Large), 32 4th
Fischer, Spencer L., 123 Orchard
Flocken, Chas., 681 Newark av
Frederick, Chas. L. & Sons, 421 Franklin
Glasby, J. P. (Mason), 40 Caldwell pl
Jacques, L., 339 Pearl
Kerr, Alex. & Son (Large), 309 Trinity pl
Lammerding, Devine Co., 227 Broad
Ludwig, John J., 900 2d av
Merrill, D. A., 118 Elm
Peckworth, Chas. H., Westfield av
Pierson, Caleb C., Walnut
Pierson, Walter C., 1175 E. Grand
Pullen, Frank, 731 South
Sayre, G. R., 46 Orchard
Schlotterer, G. H., 622 Franklin
Schmieder, Frank & Son, 408 Rahway av
Slakin, H. A., 2 Julian pl
Stephens, Wm. C., 952 Lafayette pl
Thomas, Chase, 706 Livingston
Thornton, H. L., 252 B'way
Thorpe, Silas H., 518 Magie
Warren, James W. (Large), 261 W. Grand
Watson, J. H., 142 Burnett
Wilson & Tyron, 1001 Lafayette
ENGLEWOOD—Bogert, Chas. A.
Bogert, G. D. & Bro.
Bried, Jas. L. (Mason)
Browne Bros.
Brucker, Chas.
Demarest & Son
Fitschen, J. F.
Grasing, Albert
Gulnac, Jas. M.
Mackenzie, R. H.
Moore & Hawkins
Reeve, Wm. D.
Vignaux, W. A.
Westervelt, John S.
ERIAL—Shellinger, R. V.
FAIRFIELD—Kanouse, Theo.
FAIR HAVEN—Smith, Arthur E.
Smith, Geo. W.
FAIRVIEW—Fink, Henry D.
Iasillo, Alfred
FAIR HILLS—Flomerfelt & Huyler
Layton, Joseph
Moore, Thos.
Pantley, Wm.
FORT LEE—Abbott, John L.
Palmer, Wm. C.
Searls & Fischer
FRANKLIN PARK—Bodine, John A.
FREEHOLD—Brower, Frederick A.
Emmons, Conrad (Brick)
Pitcher, H. B.
Soden, Wm. H.
GARFIELD—Passaic & Garfield Cons. Co.
Strys, J.
GARWOOD—Schaefer & Neuman
GIBESBORO—Smith, Geo. S.
GLADSTONE—Bodine, John
GLEN RIDGE—Doremus, A. Co.
Higgins, Thomas H.
Jacobus, I. & Son
GLOUCESTER CITY—Bowe, Lawrence A.
Casey, Geo. A.
Walker, Harry W.
GRANTWOOD—Key, Joseph H.
Raas Bros.
Schneider C. Contracting Co.
Scioli, Nicoli (Large)
GREAT MEADOWS—Merrill, John
GRENLOCH—Williams, T. P.
GRIGGSTOWN—Becker, Otto
Voorhees, Wm. A.
GUTTENBERG—Cade, Jno. R. & Son
Franzmann, Robt.
Muller & Gunnassen
Zucchi, Velmaro
HACKENSACK—Birley, Geo. H.
Broadhurst, Wm. G.
Collins, Geo. (Large)
Delaney & Ferber (Masons)
Hoth, John C. (Large)
Long, F. R. Co. (Large)
Whyte, W. H. (Large)
Yerance, R. H.
HADDONFIELD—Capern, Wm. S.
Holloway, Frederick
Hoopes, John C.
HADDON HEIGHTS—Hughes, Chas. H.
HAMBURG—Rumsey, T. B.
HAMMONTON—Ballard, Daniel (Brick)
Hannum, I. B.
Myers, Charles P.
Strickland, E. W.
HARRISON—Bruder, M. J.
Cook, James B.
Coyle, John J.
Coyle, Wm. H.
Harper, David
Higgins, Michael
Keegan, Thos.
Lawless, Martin
Leen, John J.
Newbon, Henry W.
Sanford & Coyle
HARRISONVILLE—Swigert, Michael
HASBROUCK HEIGHTS—Hatfield & Bazire
Thurston, Lester L.
HIGH BRIDGE—Hoffman, I. N.
HIGHLAND—Walsh, Robert J.
HIGHTSTOWN—Dillon, Wm. H.
Reed, Edward
HIGHWOOD—Grasing, Albert
Muench, Herman
Stagg, Chas.
HOBOKEN—Bussanich & Lovrinovich, 509 2d
Farrell, Martin & Son (Masons), 1106 Garden
Korbach, Wm., 808 Park
Muller & Co., 78 Madison
Rath, Robert L., 521 Garden
Runton, John & Son, 805 Clinton
Rust, John (Mason), 122 Monroe

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Scuttelaro, Frank, 533 Monroe
Thomas, Jos., 507 Monroe
Von Der Lieth, Wm., 77 Monroe
Waldo, Wm. B., 14th
Whan, Alex., 1317 Garden
HOHOKUS—American Building Co.
HOLLY BEACH—Barber, C. E.
Hewitt, Harry
Norton, Chas. A. (Large)
Scully, C. J.
HOPEWELL—Drake, W. F.
Drake, W. W.
Sutphin, H. D.
HURFFVILLE—Jones, Jesse
IRVINGTON—Dover, M. D. & J.
Gruhn & Schwarz Co.
Hennington Bros. (Masons)
Horsch, P. (Mason)
Huttenbach, L.
Irvington Building Co.
Jones, Thomas E.
Lomonte, F. C.
Matthews, C. D. (Mason)
Rhoades, George W.
Serne, Nich. Co.
Trainer & Ellis
Volker, Andrew
ISLAND HEIGHTS—Applegate, Harry W.
Bogart, James H.
McKaig, Chas.
JAMESBURG—Perrine, Buckelew Co.
JERSEY CITY—American Realty Const. & Imp. Co., 30 Huron av
Anderson, W. S., 635 Palisade av
Anderson & Johnson, 19 Delaware av
Bachus's, J. Sons, 213 Winfield av
Brown, Leslie A. (Large), Fairmount av
Byrne, Henry, 392 Mercer
Calumet Construction Co., Union
Cane, W. H. & F. W., 8th
Carroll, J., 211 Fulton av
Connolly, Jas., Boulevard
Cook, Robert, 385 Fairmount av
Cornman & Levine R. & Const. Co., Boulevard
Crone, A. W., 489 Central av
Cummings, W. F. & D. J., 534 Mercer
De Cristofano, J., 76 Larch av
Delatush, Henry Co., 562 Newark av
Dittmar, A. J. & Son, 261 12th
Dougherty & O'Keefe, 16 Elliot pl
Drake, John M., 772 West Side av
Dunn, John J., 748 West Side av
Edwards, L. H., 449 West Side av
Eichman, Robert W., 234 Summit av
Feldra, R. & Co., 69 Congress
Galvin & Doris (Masons), 269 Bergen av
Gelato, Louis, 10 Parnell pl
Goodman, L., 160 Montgomery
Groklaus, J. & Son, 299 Old Bergen rd
Grossarth, Lewis, 356 Virginia av
Hackett, M. & Sons, 296 Central av
Hahn, Henry, 247 Summit av
Hankin Construction Co., 169 Monticello av
Hanley, Charles E., 324 Barrow
Henry & McGivney, 15 Exchange pl
Hudson Realty & Const. Co., 2 Foye pl
Internal Contracting Co., Black Tom
Jeandron, J. E. (Mason), 318 Fairmount av
Jewkes, Jos. & Sons (Large), 676 Montgomery
Johnson, E. F., 281 7th
Kenny & Fitzhenry, 379 York
Kloy, K. D., 138 Prospect
Kretzmer Bros., 35 Charles
Lane, J. J., 621 Communipaw av
Laskowski & Son (Masons), 52 Grace
Lesher & Wagner, 142 Pavonia av
Lothrop, John M., 2381 Boulevard
McCarty, Jos., 771 Ocean av
McDonough, H. (Mason), 265 Bergen av
Mannix, Jas., 25 Gilchrist
Marten, R., 69 Giles av
Meloro, Rufus (Mason), 329 1st
Micucci, N., 487 Palisade av
Miller, F., 8 Cliff
Muller & Lauer, 72 Greenville av
Murphy, D. J., 37 Monticello av
Niblett, Henry E. & Sons, 2 Wayne
Niblett, Henry Z. & Sons, 123 R. R. av
Pickell, Geo. J., 521 Communipaw av
Piper, Chas. R., 546 Ocean av
Progressive Realty & Construction Co., 15 Clendenny av
Robertson, Wm. & Son (Large), 15 Exchange pl
Rode Bros., 153 Garfield av
Rodman, Chas. B., 514 Summit av
Ross, Alex., 144 Manning av
Rowland, J. T. & Son 197 1st
Russell, Edw., 619 Communipaw av
Scott Bros., 531 Bramhall av
Shannon, T. & Son, 1920 Boulevard
Shedden & Simms, 46 Prescott
Stillman, F. M. Co., 26 Exchange pl
Stonier, W. J., 23 Gregory
Tumulty, P. Jr., 59 Brunswick
Tuorto, M., 405 2d
Walsh, J. F. Co., Van Cleff
Walsh, W. J. & Sons, 430 Fairmount av
Wells, Geo H. & Son (Masons), 132 Boyd av
Wheelihan, Jas. F., 767 Montgomery
Whyte, Wm. R., 36 Oakland av
Wiegand & Jones (Masons), 265 Danforth av
KEARNY—Carruthers, Jno.
Collins, John
Connelly, P. J. Co.
Crookall, Henry
Dunn, Elizabeth (Mrs. Jas. G.)
Entice Bros.
Levison, Christian
Mackie, Frank A.
Nairn, Wm. Co.
Rizzolo, Vito A.
Ross, John
Smedberg, Alfred
Williamson, Alex. G.
Young, Robert & Son
Zeliff, Zetheo E.
KEYPORT—Davison, G. L.
Langan, Geo. M.
Young, Geo. N.
LAKEWOOD—Allen, R. C. & J. I.
Applegate, Howard
Irons, Geo. E.
Shue, A. W.
Tappen, Wm. H.
LAMBERTVILLE—Arnett, Geo. W.
Lambertville Construction Co.
Parker, Fred R.
LEONIA—Bogart, Arthur D.
Harden, I. C. & Son
Parker, P. J.
Richards, Wm. P.
Walsh Bros. (Masons)
LINDEN—Linden Bldg. & Const. Co.
LITTLE FALLS—Francisco Bros.
Van Ness, Geo. W.
LONG BRANCH—Alexander, W. H. Bros.
Baxter, Geo. W.
Brand, Frank
Brand, W. D.
Brehm & Schulthrop
Campbell, Jas., Jr.
Cloughly, Jas. S.
Conk, Wm. (Mason)
Cubberley, J. N.
Finn, Jos. & Co. (Masons)
Huff, C. H. & G. W. (Large)
Hughes, R. H. (Large)
Hurley, B. J., West End
Nelson, Frank
Poole, M. V. (Mason), West End
Proctor, Thomas
Schaukenberg, D.
Schoenthaler, E. (Mason)
Stanton, Horace
Tappin, Robert
Weber, August
White & Coyne
Wood & Patton (Masons)
Wooley & Burchell
LYNDHURST—Burke, Jno. H. (Large)
LYONS FARMS—Bailey, C. C.
MADISON—Apgar & Collivar (Masons)
Corbett, Jno. V. (Stone & Brick)
MAHWAH—Valentine, David
Valentine, Jacob J.
MANTOLOKING—Stillwell. Jos. (Large)
MENDHAM—Babbitt, Stephen E.
Carley, C. D.
Garabrandt, E. L. & Co.
Hoffman, J. M. (Mason)
MIDDLETOWN—Scott & Scott
MIDLAND PARK—Bakels & Taun
Procoopio, F.
Van Dyke, Jacob (Mason)
MILLBURN—Carter, E. L.
Wolf-Jilson-Douglas Co.
MILVILLE—Chambers, A. J.
Goodwin, Eugene B. (Large)
Hoffman, Henry
Hoffman, Jas. S.
Sheppard. Seeley F.
MONTCLAIR—Bescherer, Jacob S.
Bettinson, Harry C.
Boon, Meindert
Boxall, George W. (Mason)
Brooks, Abraham
Brooks, William H.
Campbell, George
Carlson, J. S. & L. Co.
Cestone, P.
Clark, Allison P., Jr.
Cokefair, Eugene H.
Crawford Co.
Curtis, T. A.
Doyle, J. J. (Mason)
Emerson, Gustaf
Feeny, Owen
Gardner, J. B.
Gibbs, Fred. W.
Gibson & Collins
Godfrey Land & Building Co., U. P.
Greener, Alfred
Jacobus, William B.
Kent, John H.
McNamara, John J.
Manuel, John
Mead, H. C.
Mullins & Braddock
Nelson, Nels P.
Northwestern Construction Co.
O'Neill, Jas. P.
O'Neill, Jeremiah L.
O'Neill, John F.
Picken, John
Ring, Edw. D.
Roberts, J. B. & Co.
Rushmer & Collinson
Sigler, Chas. P. (Mason)
Sigler, Melvin (Mason)
Sigler, Theo.
Sims, Benj. G.
Thieringer, Gottlob
Trobridge, C. Shaw Co.
Vought, H. H. & Co.
White, J. E.
Wickstrom, William
Wilmarth Building Co.
MONMOUTH BEACH—Heitzman, W. H.
MOORESTOWN—Rogers, J. S. Co. (Large)
MORRISTOWN—Allen, Geo. T.
Barkman, W. F.
Collins, John D. (Mason)
Dalglish, Robert
De Coster & Mills (Large)
Dempsey & Cooney (Masons)
Gordon, Geo. R.
Hays Bros.
Lepine, J. W.
Lindsley, Chas. R.
Marinaro, Nicholas
Mills, George A.
Mitchell Bros.
Mooney & Lyons (Masons)
Nelson, J., Jr. Co. (Masons)
Reeve & Burr (Large)
Smith, H. P.
Sturgis Bros. (Masons, Large)
Wesp, Louis H.
Wilday, David H.
Wilson & Griffith
MOUNT ARLINGTON—Cook & Beatty (Masons)
MOUNT HOLLY—Allen, Walter
Couples, E. D.
Esham, E. W.
Gale, W. S.
Howell, Frank P.
NEWARK—Allen, Wm. H., 145 Belleville av
Apgar, Fank B., 13 Arch
Ballard, Wm., 277 Runyon
Becker, L. C. & Bro., 415 13th
Beegle, A. L. & Co., 161 1st
Bingham, Wm. K., 395 Mulberry
Blanchard, Wm. L., 160 Sherman av
Bonkowski, F., 10 Kirk alley
Burns, Jas. M. (Mason), 29 Freeman
Callan, John, 70 S. 11th
Carmer Bros., 302 Riverside
Carter, A. P., 344 7th av
Cassidy, Isaac, Summer av
Chapman, Thos. (Mason), 2d
Christiansen, Wm. A., 14 Fairview av
Clark's, A. H. Sons (Masons), 45 Clinton
Clynes, W. K., 185 Market
Collyer & Coddington, 12 Hedden pl
Connolly, W. H., 95 Tyler
Connolly, Wm. H. (Mason), 137 S. 7th
Conroy, T. (Mason), 225 Clinton pl
Cronin, D., 18 Fairmount av
D'Allesio, Jos. & Son, 222 Washington
D'Armato & Steffanelli, 74 Summer av
Day, Chas. Y. & Co., 618 N. 7th
Decker, Zahn Co. (Masons), 333 Elizabeth av
Demarest, H. (Mason), 303 Sanford av
Dermody, Thos. H. (Mason), 163 Halsey
Dey, J. F. & Co., 292 N. 5th
Dickson, Henry (Mason), 22 Clinton
Donahue, A. J., 231 N. 4th
Donkersloat & Williams, 363 Bank
Doremus, Harry C., 113 Vanderpool
Doremus, H. M. Co., 36 Orange
Duckworth-Crawford Co., 111 High
Duryea Bros., 217 Clinton av
Eitel, Fred. & Co., 146 Brill
Elin Bros., 16 Avon av
Enstice Bros., 45 Clinton
Filippone, Vincent, 115 N. 7th
Fillips, Chas. S. (Mason), 170 Parker
Frankel & Milone, 238 Washington
Fredericks, Geo. J., 278 Ridge
French & Ames, 23 Lanark av
Fusco, Jas. J., 756 Broad
Garrabrants, A. J., 24 Nichols
Gatchell, Albert N., 304 Sussex av
Gegenheimer, Philip, 290 Camden
Globe Building Co., 443 Broad
Gordon Bros. Co. (Masons), 47 Marshall

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Gordon, Wm. R., 124 S. 9th
Great Eastern Building Corp., 156 Market
Guerin, Isaac B. (Mason), 23 William
Haas & Kunz, 76 Wall
Hammel, John, 131 Van Buren
Harrison Const. Co. (Large), 837 Broad
Hedden, Charles M., 273 Halsey
Hedden Construction Co., ft. Carlisle pl
Hedden, V. J. & Sons Co., 431 Ogden
Herrman, Theobold, 570 S. 12th
Heyeck, Wm., 43 19th av
Hopkins, Robert L., 91 S. 14th
Hopper, Daniel, 199 Woodside av
Husk, Lewis E., 84 Peabody pl
Ingling Construction Co., 222 Washington
Jackson, Wm. & Son, 113 Vesey
Jacobus, Frank (Mason), 111 7th
Jacobus, Jas. W., 54 Irving
Johnson, S. P. & Co., 43 Camp
Kilgus, Fred. (Large), 138 6th
Kleissler, Christian Mason), 92 Barbara
Landgraf, Geo. & Son, Clinton pl
Linden Bldg. & Const. Co., 825 Broad
Loebel, Chas., 222 Washington
McCue, Francis F., 84 Harper
McDougal, W. S., 44 Gould av
McLaughlin & Co. (Masons), 217 Warren
Maccia & Moretti (Masons), 18 Brookdale av
Maier, Christian, 389 S. 19th
Matzner & Frisch, 101 Baldwin
Meisol, A. J., 95 Shepard av
Merdinger, George, 80 Alyea
Merrill, George M., 27 Wright
Mickens, Ludlow, 160 Sylvan av
Miller, Aaron W., 630 Summer av
Miller & Sons Co., 33 S. 13th
Milome, Alex. J., 83 Littleton av
Milone Const. Co. (Not Inc.), 800 Broad
Mossey, Robert L. (Mason), 192 S. 9th
Mulcahy, David B., 97 Washington av
Nerto, A. & Son, 31 Boyden
Neuhaus, Frederick, 567 S. Orange av
Nicklas, Geo., 271 Chadwick av
Noviello, A., 92 Malvern
Oakley, E. I., 18 Walnut
Obner & Reichert, 75 N. 14th
Oliver, Chas. (Mason), 203 Sylvan av
Oliver, Edward O., 194 Barclay
Oschwald Bros., 305 Johnson av
Oschwald, Joseph (Large), 118 Market
Otto, Paul W., 779 Hunterdon
Parker, Lewis Bldg. & Const. Co. (Large), Parker, Wm. C., 12 Miller 40 Lafayette
Parkington & Bailey, 87 Court
Patrick, Robert W., 57 Halleck
Payne Bros., 22 Clinton
Pelleschia P. (Mason), 21 Mt. Pleasant av
Peter, Lucas, 57 Darcy
Pfeifer, Mathias, 89 Barbara
Rawlings, E. K., 31 S. 13th
Reynolds, P. J., 308 S. 9th
Rhodes, Chas. K., 61 Beverly
Rizzola, Donato, 10 6th av
Roh, Robert, 308 S. 7th
Roll, Chas. W., 79 Bleecker
Russell-Robinson Co. (Large), 109 Frelinghuysen av
Sanford, A. E. Co. (The), ft. 4th av
Schaedel, Charles & Bro., 118 Bruce
Schapiro & Blake, 3d
Schneider, Herman C., 500 15th av
Schoelzke, O. H. (Mason), 370 Badger av
Schoner, Edw. D., 279 Mulberry
Schoonover, Abram D., 553 Hawthorne av
Schubert, Joseph C., 364 S. 11th
Scharwell, William G. & Co., 381 N. 6th
Shaw, Jas. S., 75 Chestnut
Shaw, John W. & Son Co., 351 S. 9th
Siebenson Bros., 149 Hobson
Siebrecht, Conrad F. (Mason), 277 Littleton av
Smith, Frank R., 10 Rowland
Sommer, Joseph, 51 Winans av
Staeger, Oscar & Sons, 448 S. 9th
Stillman, F. M. Co., 9 Clinton
Sutphen, Court V., 132 Wakeman av
Terhune, Frank A., 668 Mt. Prospect av
Trautwein, Gottlob, 107 Peshine av
Trivett & Walters Co., 7 Bond
Tromans, Alfred, 1126 S. Orange av
Union Building Co., 9 Clinton
Vanderhoff, Myron E., 533 Hawthorne av
Vanderhoff, Peter & Sons Co. (Large), 285 Broad
Van Ness, John H., 69 Bloomfield av
Varley, George & Sons, 29 Hudson
Vliet, John W., 85 Academy
Voorhis, George, 359 Woodside av
Waldron, Edward M. & Co. (Large), 845 6th
Weeks, D. C. & Son, 281 Washington
Wengel & Leber, 14 Warren pl
Whitman, J. C., 157 Summer av
Whitney Steen Co., Broad
Willetts, Enos (Mason), 458 Jelliff av
Winterbottom & Van Houten, 148 N. J. R.
Wlasak, Alois, 487 S. 18th R. av
Wonderly, W. F. & Co., 252 N. J. R. R. av
Zeliff, John Sherman, 640 Summer av
Zincone, H. M., 67 Stone
Zobarsky, Max, 213 Newark
Zwigard & Schroverer Bldg. Co., 524 Bergen

NEW BRUNSWICK—Barnwell, R. F. (Mason), Fourth av, Highland pk
Board, Louis, 120 Easton
Brower & Conover (Masons), 240 George
Conway, Martin, Raritan av, Highland pk
Hendricks, John & Son (Large). 205 Handy
Hendricks, P. H. & Son (Masons), 290 Redmond
Holman, Thaddeus, 215 Redmond
Horner, Aaron E., 157 Codwise av
Leary, Wm. E., 299 Powers
Outcalt, Jacob V., Drift, c Townsend
Rule, George B., 71 John
Van Sickle, Wm. H., Jr. (Mason), Drift & Welton
Voorhees, Abram, 27 Handy

NEWFIELD—Van Hook, David
NEW DURHAM—Austin, F. R.
NEW MILFORD—Winters & Lynch
NEWTON—O'Donnell & McManiman
NORTHFIELD—Sheppard, Chas. S.
NUTLEY—Ackerman, Henry
Bross & Keyser
Carter, Chas. H.
Cueman, A. & S.
Housby, W. J.
Kierstead. Lester
Mutch, Jno.
Norman, Walter
Stager, Arthur
Weiman, Jno.
Whitfield, H.

OAKLAND—Bush, C. H.
OCEAN CITY—Bourgeois, Geo. A. & Son
Carson, Leander S.
English & Johnson
Scull & Marts Co.
Steelman, Jacob C.
Townsend, Otis M.

OCEANIC—Emery, Ira A.
Yeomans, Jno.

ORADELL—Cooper & Demarest
Voorhis, Peter E. (Mason)

ORANGE—Anderson, J. S., 30 Centre
Attridge, Thomas, 18 N. Centre
Berryman, John, 7 Alder pl
Bitterle, Alfred, 361 Central av
Bliss & Griffiths, 153 Centre
Brennan & Finnegan (Masons), 48 Cory
Carhart, Hennell, 26 Stetson
Coyne, Chas. F. (Mason), 132 Day
Dexheimer, P. & Son, 61 Day
Dodd, Chas. E. Co. (Masons), 249 Main
Driscoll, John F., 214 Hickory
Edwards, Wm. F. & Co., 24 N. Centre
Everett, John B. & Son, 11 Elm
Finneran & Keeley, 34 Langdon
Gasner, Jos. F., 144 Alden
Hay, Wm. A., 245 Valley
Kliefuss, F., 46 Globe
Knorr & Hoppes, 21 Taylor
McCloskey, Charles A., 28 Summer
McElnea, D., 16 Webster pl
McElnea, Henry, Wheeler
Morlock, Sebastian, 19 N. Jefferson
Neil, Chas., 94 Watchung av
O'Connor, M. J., 47 Ward
Oakley & Roberts, 211 White
Oates, John, 60 Hill
Preiss & Co., 127 Essex av
Pruden, W. E., 66 William
Thatcher, Norman H., 164 Alden
Wallman & Co., 316 S. Jefferson
White, Edw., 146 Day

PALISADE PARK—Steenland Construction Co.
PALMYRA—Hall, Geo. W.
Headington, Wm.
Shade, Jno. W.
Shanner & Miller
Sherman, Stewart L.
Wallace, Samuel C.

PASSAIC—Anderson, R. B. & Co.
Baker, Garrett
Baker, William
Boon, Meindert
Coman, M. J.
Conant, Warren F.
De Vries, Daniel
Kevitt, Edw. N. Co.
Rossma Bros.
Skvarla, John
Snoop, Herbert
Union Building & Construction Co.
Van der Vliet Construction Co.
Woods, John

PASSAIC FALLS—Breen, Samuel
PATERSON—Atkinson, John, 460 Park av
Bailey, Wm. H., 128 Vreeland av
Breen, Frank (Mason), 223 N. 6th
Breen, Leonard, 45 Lowe
Byrnes, Thomas, 44 Taylor
Dickinson, Andrew, 82 Goodwin
Elman, John, 857 Market
Ferguson, John W. Co. (General, large), United Bank bldg
Gattlieb, L., 89 Hamilton av
Gleek, Albert, 63 Garfield av
Gutherson, W. T., 684 E. 18th
Hamilton, Job, 83 Jefferson
Henry, David Bldg. Co., Main
Hoilsma, Peter, 263 E. 23d
Houman, John (Mason), 37 Clark
Jackson, Frank R., 77 E. 20th
Jersey, Theo., 611 E. 24th
Kay, Jas. E., 319 Godwin
Keil, Jos., 259 Marshall
Knott, Jacob, 222 Clinton
Kook, B., 49 N. York
Kramer, Phillip, 954 Madison av
Lee, John R., Second National Bank bldg
Lynch, Michael Construction Co., 1247 Madison av
MacDonald, Geo., 140 Market
Mersereau, C. H., 724 E. 28th
Murray, Francis P., 109 Bond
Pittet, Felix G., Silk City bldg
Platt, Wm. L. Const. Co., United Bank bldg
Quigley, John J., 634 Main
Reliable Building Co., 88 Graham av
Riley, Joseph, 151 Van Houten
Ritchie, John J., 467 E. 31st
Schaub, August, 78 18th av
Schwartz, Henry Bldg. Co., 308 Getty av
Sikkelee, Nau Bldg. Co., 917 Madison av
Stam, Peter, 146 N. 7th
Steele & Hopper, Citizens Trust Co. bldg
Tanis, Nicholas, 71 York av
Troost, Martin, 192 N. 4th
Van Buiten, John, Belle av
Vandenbree, Arthur, 452 E. 35th
Van Houten, A. B. & Son, 76 Paterson
Van Houten, Jas., 81 Godwin
Van Houten, Wm. H. H., 84 Hamilton av
Van Kirk, P. S. Co., 50 De Grasse
Ver Duin, Abraham, 111 York av
White, James, 186 Mill

PERTH AMBOY—Christensen, C. C.
Christensen, Fred. Construction Co.
Crouse, Ira R.
Dayton, Spencer
Dimond, Tube
Dinesen, M. J.
Donehue, John C.
Feddersen, A.
Greisen, Hans
Hansen, Martin
Henderson Bros. (Masons & Bldrs.)
Hoagland, G. W.
Koyen, Emil
Koyen, Jens P.
Meagher & Smith
Olsen, Soren C.
Ostergaard, Iver C.

PLAINFIELD—Abbott, John, 418 W Front
Apgar, Walter
Beck, Louis F. C.
Bird, Wm. D.
Doane, Chas. E.
Drake, Chas. E.
Hoffman. H. H.
Laury, Titus H.
McInerney, F. T. (Mason)
Manning, Jas. C.
Miline, Alexander
Mundy, John W. (Mason)
Nielson, C. & Son
Rimmer, Apgar & Cuzans
Rouse & Fullagar
Smith, Wm. C. (Mason)
Tallamy, B. F. & Bro. (Masons)
Tallamy, Wm. (Mason)
West, Ira N.
Wiegand, George
Wyman & Haberle
Williams, Seaman (Mason)

PLAINSBORO—Okerson, Lewis
PLEASANTVILLE—Adams, Chas. S.
Adams, Winifield
Collins, Chas.
Cuff, Chas. H.
Lafferty & Turpin
Yates. James

POMPTON—Colfax & Steele
Emmons, A. S.

PRINCETON—Gill, Jno. P.
McCarthy & Sons Co.
Stillwell, S. H.
Warren, Benj. R. & Sons

RAHWAY—Lamphear, C. P.
Muddell, David I.
Weldon Const. Co.

RARITAN—Hickey, Philip A.
RED BANK—Bryam, Frank C.
Davis, O. E. (Large)
Early, Johnson & Frake
Finkel, Frank (Mason)
Hercules Construction Co.
Matthews, Ambrose & Co.

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Minugh, Elwood
Scott & Scott
RIDGEFIELD PARK—Niehaus, August
Niehaus, Herman
Vanderbick, Harry I.
RIDGEWOOD—Adamy Bros.
Christopher, J. H. (Large)
Cooper & Berdan
Estes, Harry E.
Goater, E. W.
Hubschmitt, A. T.
Phillips & Sons
Zabriskie, P. L.
RIVERSIDE—Arndt, Geo.
Scheley, Geo. L.
RIVERTON—Lowden, Louis F.
ROSELLE—Dennick, Geo. W.
Klov, Emil
RUMSON—Bruce, J. P. (Mason)
Jennings, John W.
Pearsall, Wm. H.
Yeomans, John
RUTHERFORD—Ahrens, Claus & Co.
Brower, Henry & Son
Colonial Construction Co.
Ellis, Chas. B., Jr.
Gunther, Franz
Hackett, Augustus T.
Rusk, Hugh R.
Van Boden, Frank
Winkel, Wm.
SADDLE RIVER—Storms, F. H. & Son
SALEM—Bell, Jos. (Planing Mill)
Brandiff, Robt. A.
SEA BRIGHT—Prichard & Williams
Shropshire, Chas. V.
SEA ISLE CITY—Arnett, Edw. B.
SHREWSBURY—Borden, A. W. (Large)
SOMERVILLE—Barras & Smith
Conners, Wm. & Son
Cramer, Chas.
Dalley, Wm.
Gunzelman, Fred.
Hardgrove, Wm. (Large)
SOUTH AMBOY—Munday, Furman W.
Munday, Oscar M.
SOUTH ORANGE—Barrett, John
Batt, Ludwig
Becker, Henry & Son
Farrell, J. F. (Mason)
Halsey, Isaac W.
Shiels, Archibald
Stieve, J. W. (Mason)
Van Iderstine, D. W.
SPRINGFIELD—Denham, Wm. B.
Meisel, Peter H.
SPRING LAKE—Allgor, R. A. (Mason)
Miller, Jno. R. (Large)
Moore, H. H.
Norris, Wm. H.
Smith, Wm. J. (Large)
STANWICK—Rogers, J. S. Co. (Large)
SUMMIT—Cain, Isaac S.
Coffey, Thos. J.
Gilchrist, David D.
Helms, F. W. & Co.
Lamb, Jno. J.
Lumb & Shipman
Owens, Jas. G.
Post & Coggshall (Masons)
Reeve, W. A. G.
Smith, Wm. H. (Mason)
TENAFLY—Arzonico & Benzoni
Brewster, Geo. M.
Geissner, Chas. M. & Co.
Gleasner, C. M. & Co.
Hill, Geo.
Scheffler, Wm. R.
Westervelt, Geo. E.
TINTON FALLS—Cook, D. H.
TOMS RIVER—Harris, A. Judson
TOWN OF UNION—(P. O. Weehawken)
Bond & McNally, Main
Boyd & McIntyre, 302 Central av
Bradley, Wm., Paterson Plank rd, N. B.
Brandt Mfg. Co., 49 8th
DeRiso Bros. (Masons), 211 3d
DeRiso & Arena (Masons), 322 5th
Funesti, Julius, 132 Main
Schreiber Const. Co., 920 Thaphagen, N. B.
Theil Contracting Co., 324 Franklin av
Vatcky, Henry, 908 Traphagen, N. B.
Young, J. & Son, 558 Hamilton av
Zucchi, V., 404 Franklin av
TRENTON—Barlow, J., 130 W Hanover
Benson, G. E., 220 Butler
Bugbee, Newton A. K. & Co.
Case, A. J., 249 Jackson
Clayton, I. H., 264 Bellevue av
Cubberly, Daniel I.
Decknert, Stephen
Donegan, Thos. F.
Donnelly & Welsh
Drafter & Cotter, 5 2d
Dugan, Daniel A.
Egan, Jas.
Freedman, Louis
Lanning, J. W. (Large), 314 N Broad
Lawton, Lewis & Son, Broad St. Bank bldg
McGovern, W. F.
Martin, Jos., 220 N Warren
Mather, S. W., 30 S. Clinton av
Michalis, John T. & Geo. B.
Mordaunt, John E.
Morgan & Gibbs
Morris, W. J. & J. H., Broad St. Bank bldg
Newton, Richard
Reeger, Edward, Broad & Jay
Rickey, Swann Co.
Roebling Construction Co.
Schaefer, Wm.
Trier, Jos.
Voorhees, Ashley C., 592 Brunswick av
Walling, C. H.
TUCKAHOE—Goodwin & Hess (Large)
Steelman, Jno. R.
VERONA—Jacobus & Farrand
VILLA PARK—Braly, Jno. M.
VINELAND—Allen, William E.
Foulk, Walter L.
McKillin & Mole
Nutt, Philip, Sr. (Mason)
Pasquale, Jas. (Mason)
Savidge, Chas. W.
Turner, Walter E. (Large)
WASHINGTON—Deremer, James P. & Sons
Lance, Archie
WEEHAWKEN—Berger, E. W. & Bro., 300 Bulls Ferry
Weehawken Cont. Co., 146 Bulls Ferry
WEST CAPE MAY—Cummings, Wm. L. & Son
Hand, Walter N.
WESTFIELD—Baker, Frank R.
Cash, John H.
Clark, Aaron B.
Frazee, Jno. H.
French, Chas. H.
Goltra, John Q.
Howarth, Wm. F.
Jimerson, W. S.
Ledley, John
Moffatt, James
Moffett, Joel
Stiles, A. W.
Wilcox & Pope
Winters, S. D.
WEST HOBOKEN—Berke, F., 720 Dodd
Brenner, L., 629 Central av
Capone, A., 710 Shippen
Decker, Gottlieb (Mason), Charles
Lepore, P. (Mason), 520 Central av
Muller, F. R., 20 8th
Ottino, L., 610 Syms
Richards, F., 811 Shippen
Scarnecchio, S. & V., 427 Summit av
Wallheinke, H., 716 High
Wesp, E. J., 364 West
Wyckoff, C. W., 722 Dubois
WEST LONG BRANCH—(See Long Branch)
WEST NEW YORK—Curry, Thomas
Murphy, Dennis J. (Large)
WEST ORANGE—Halbig, Jno. A. & Co.
Hay, Wm. A.
Hays, Frank V.
Macintosh, Walter S.
Miele & Bruno
Steele, Jno. R.
Vogel, Adolph (Large)
Wolf, Jilson-Douglas Co.
WESTWOOD—Brickell, Thos. E.
Demarest, Peter W.
WOODBRIDGE—Coddington, Jonas
Lee, F. Randolph
McEwen, Jos.
Treen, John, Jr.
WOODBURY—Allen, Thompson
Best, Joseph B.
Henry, Albert (Brick)
Henry, Edw. P.

## NEW MEXICO.

ALBUQUERQUE—Anson, A. W. (Large)
Strong, W. W.
EAST LAS VEGAS—Sundt, M. M.
FORT BAYARD—Harlan, J. A.
SILVER CITY—Black & Atkins
Manville Bros.

## NEW YORK.

ALBANY—Bell, Thos, 216 N Pearl
Bermel, Peter, 797 Madison av
Burdick, G. D., 344 Hudson av
Carr, Stephen A. & Son, 346 Hudson av
Cassidy & Gallagher, 68 Park av
Collins Bros., Bensen bldg
Cook, Asbury, 197 Elk
De Tiere, F. J.
Dyer, Jno., Jr., Albany Co. Bank bldg
Fahrenkopf & Ruefle, 120 Franklin
Feeney & Sheehan Bldg. Co. (Large), 160
Filkins, Chas. E., Capitol Montgomery
Finn, J. J. & Son 75 N Boulevard
Gander, Anton, 14 Osborne
Gick & Sayles, 264 Hudson av
Hahn, Chas. L.
Havens, Elmer H. Bldg. Co., 92 Madison
Keeler, Peter Bldg Co. (Large), 464 Orange
Keeshan, Dennis J., 117½ Elk
Lebuis Building Co., 7 Trinity pl
McCann, Patrick, Dove c Sheridan
Maas, Jno. J., 236 Sherman
Menges, Henry, 562 Clinton av
Nicol, Wm. C., 201 Spruce
Nolan, Jas. C., 357 Orange
Pattinson, Jas. W.
Reilly, Wm. F., 52 S Hawk
Ryder, M. L. Building Co., 356 State
Sewell, R. P. & Son
Smith, Philip H., 317 Lark
Stephens, Thos. & Sons, 275 Lark
Waldbillig, John B., 425 1st
White, Jas. H., 171 Myrtle av
AMITYVILLE—Ketcham, Milford H.
Pearsall, A. A. (Mason)
AMSTERDAM—Clemens, Chas., Caroline c Division
Cavey, Wm.
Dessau, F. W.
Doty, C. E.
Fick, C. E.
Grieme, Hy. W., 39 Bridge
Jones, John B.
Kane, Thos. F.
Lasher, J. D.
McNeil Mfg. Co. (Not Inc.)
Machold, C. B.
Madden, Dennis
Mallia, John
Mohawk Contracting Co.
Reed, H. L.
Rogers, H. C.
Slater, Geo. F.
Sweet, Garrett E.
Terwilliger, Geo. P.
Turner, Jno. J., 53 Union
Wright, Geo.
AUBURN—Barnes, W. B. & Co. (Masons)
Gilmett, John
Koon, E. B. & H. J.
Smeting, George B. (Mason)
Williams, Luke
BABYLON—Burton, Chas. W.
Howell, Elmer W. (Large)
Kellum, Henry J.
Ketchum, W. A.
Rogers & Blydenburg
Van Weelden, H.
BALDWINSVILLE—McCarthy & Ward
BATAVIA—Buckholtz, John & Son
Cummings, J. C.
Dellinger, E. J.
Ditzel, Philip
Glade, Jno. (Large)
Homelius, H. W.
Howard, M. M.
King, Asa
Manning, John (Plasterer)
Pickert, Jno.
Savacool Bros.
Schafer & Lochnicht (Brick & Stone)
Uphill, J. L.
Wade & Uphill
Waterman, A. J.
BATH—Clough & McChesney
BAY SHORE—Farley, Thos.
Hein, Jos.
Jones, W. R.
Kirkup, Chas. E.
BINGHAMTON—Badgley, A. E.
Carrington, S. H. Co.
Clark Bldg. & Const. Co.
Ford, M. I.
McCallum & Stevens
Mitchell & White
Moffat Bros.
Moore, R. H.
Nearing, J. B.
O'Neil, Jas.
Owens, M. A.
Shirley & Simpson
Wheeler, G. B.
BROCKPORT—Cleveland, M. A. (Large)
Heinrich & Vineyard
BROOKLYN—(See New York City, Borough of Brooklyn
BUFFALO—Adams, R. O. (Mason), 67 Preston
Ahrhart & Son, 48 W Eagle
Allespach, Michael, 282 Northampton
Allison, J. F., 50 Plymouth av
Bailey, J. B., Chapin blk
Barnum, Chas. O.
Barnum, Chas. O., 110 Carlyle av
Barnwell, Chas. P. (Mason), 398 14th

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Barrows, Chas. P., 81 Lafayette av
Batt, Chas. A., 38 Northampton
Baynes, Fred'k A., 31 Pearl
Baynes, Henry T., 160 Pearl
Beaser, Andrew B. (Mason), 72 Sanford
Beck, Frederick F., 206 Richmond av
Beck & Oehler Co., 465 Riley
Bellanca, Joseph G., 104 Virginia
Bender, Daniel, 17 Bender pl
Berrick's, Chas. Sons (General Masonry, etc.), 1151 Main
Bettendorf, Wm., 191 Glenwood av
Bingel, Conrad, Jr., 618 Oak
Blacklock, Jos. G., 177 Forest av
Boehme, Frederick A., 250 Woltz av
Booth, Alex., 300 Leroy av
Bournique, A. F., 994 Fillmore av
Bowers, E. J., 23 Copeland pl
Braun, Chas., 446 Goodyear av
Breidenstein Bros., 84 Edson av
Bremer, Frank, 107 Vanderbilt
Brown, Andrew B., 44 Richmond av
Brown, Wm. W., 1183 Seneca
Burgard, Henry P. Co., 275 Lathrop
Burke, Michael J., Prudential bldg
Caldwell, Robert W., 1167 E Ferry
Carter, Geo. W. & Sons Co. (Masons & Builders), 25 Builders' Exchange
Chabot, Frederick G., 272 Glenwood
Chadeayne, Geo. H., 217 Mutual Life bldg
Chilcott, Walter, 13 Mesner av
Christensen, Andrew, 40 Littell av
Christensen, John L. (Mason), c Clinton & Holley
Churchyard, Jos. J. (Also Planing Mill), 648 Clinton
Cieslinski, Stanislaus, 175 Sobieski
Coatsworth, W. F., 79 Milton
Colgan & O'Malley (Masons), 7 Tennessee
Craine, Robert C., 268 Breckinridge
Crocoll, Chas. F. (Mason), 721 Hopkins
Crooker, B. I. Co., Builders' Exchange
Cutler, W. E., 150 Lancaster av
Dawson, W. H., 398 Baynes
Dean, Henry, 636 E Ferry
De Fries, John, 476 High
Dill, Wm. H. (Mason), 116 Southampton
Donaldson, Geo. S., 24 Norwood av
Dunn, Emil (Mason), 1904 Fillmore av
Durolithic Co., 460 Endicott sq
Dwyer, J. W. & Son, 875 Ellicott sq
Eberhardt, John H., 284 Potomac av
Eastern Concrete Steel Co., Morgan bldg
Eddy, David N. (Mason), 19 Herschbeck
Einach, E. D.
Einach, Chas., 21 E Bennett
Elliott, Geo. F., 136 Dearborn
Erckert, Albert A., 986 Fillmore av
Everitt, Chas. H., White bldg
Farr-Fisher Co. (Contractors & Real Estate), Law Exchange
Fatta Bros., 115 Front av
Feist, John & Sons Co. Also Planing Mill), Ferris, Wm. M., 28 Brennan 115 Ash
Fillinger, John J., 54 A
Fitzgerald, Wm. S., 1202 West av
Fliere, Christian (Also Planing Mill), 1356 Forback, Christian, 204 French Genesee
Frank, Geo. E. (Mason), Builders' Exchange
Frank, Peter H. (Mason), 74 Linwood av
Frey, Geo., 316 Cornwall av
Friedman, F. J. & Sons (Masons), 38 Fox
Fromwiller, Geo., 56 Hartman pl
Galbo, Mariano (Mason), 139 7th
Garvey, Fred H., 8 Burch av
Gangnagel & Co., 100 Kelhoffer
Geiger, John, 481 7th
Gibbons, J. G. & C. L., 1069 Niagara
Gies, Edward (Mason), 429 Dearborn
Gould, Chas., 972 Sycamore
Graesser, Herman C., 649 Eagle
Grain Storage Cons. Co., Mutual Life bldg
Grenzebach, John E., 2383 Seneca
Gruner, H. A., 52 Eaton
Grupp, Edward & Son (Masons), 51 Riley
Habicht, Geo., 218 Guilford
Hager, Edw. M. & Sons Co. (Also Planing Mill), 141 Elm
Hall, Thom. R., 446 De Witt
Halliday, Raymond, 297 Woodward av
Hann, Louis F., 555 Best
Hansel, Alois, 215 Ludington
Hardre, Henry (Mason), 287 Northampton
Harriman, Benj., 90 Chenango
Harryman, E. B., 315 Brisbane bldg
Hasselbeck, Jacob, 971 Walden av
Heiss, Christian F., 1872 Clinton
Heibling, John Geo., 53 Pratt
Held, Alexander, 364 Sherman
Helffenstein, Geo. J., 75 E Parade av
Heinrich's, Wm. Sons (Also Planing Mill), 193 Spring
Hepfer, Christian, 286 Fillmore av
Hibbard, F. W., 108 Fargo av
Hoag, Jas., 916 Fillmore av
Hoecsh, J. G., 426 High
Hoelsher, Theo., 25 Morton pl
Hoffmeyer Bros., 308 Dearborn
Hughes, Geo. M., 211 E Utica
Ireland, Gilbert, 210 Ashland
Jennings, W. S., 44 W Chippewa
Jochim, Peter, 205 Johnson
Johengen, M. Albert, 416 Goodyear av
Johnson, John, 136 Delaware av
Johnson, John P., 85 Lilac
Karcher, Henry J., 124 Kilburn av
Kavany, John J., 367 Niagara
Kempf's, Geo. Sons, 99 Locust
Kirchgasser, John B., 245 Watson
Klager, David C., 195 Winslow av
Klein, Jacob (Mason), 170 Lafayette av
Klopp, John F., 100 Dorchester rd
Koch, Wm. C., 325 Benzinger
Koch, Wm. F., 155 Davey
Kurth, Chas. L., 495 Northampton
Labunski, Joseph, 218 Cable
Lacroix, Julius, 446 High
Lamb, Alfred F., 659 Grant
Lanctot, Clyde H., 742 Richmond av
Lang, Oscar S., 699 7th
Lannen, John (Mason), 667 Ook
Lehman, Edwin W., 516 Woodlawn av
Leman, Geo. D., 56 Tillinghast
Lennon, John, Son & Co., 370 Prospect av
Lenz, Frederick, 145 Moselle
Lenz, Herman & Sons, 249 Moselle
Leverance, Andrew, 137 Dewitt
Little & Metzger, 7 Carlyle av
Luedeman, Fred. (Mason), 510 High
McCormack, Wm. C., 29 Auchinvole
McDermott, P. W. (Mason), 20 Baynes
Mahoney, D. J., 348 Winslow av
Mathewson & Parsons, Law Exchange
Menges, Wm., 2335 Genesee
Menth, G., 31 Walden av
Metz Bros., 1295 Fillmore av
Metz, Joseph & Sons (Also Planing Mill), 292 Elm
Metzler, Fred. (Mason), 227 Ludington
Miller, Ernest F., 236 S Hampton
Miller, Fred. C., 287 East
Morley, Wm. H., 601 Sycamore
Nease, Samuel, 34 Eugene
Neumann, Joseph, 675 Riley
Niederpruem Co. (Also Planing Mill), 72 Noblett, John E., 382 E Utica Kingsley
Noblett & Hartmann, Morgan bldg
Olmsted, Wm. C., 6 Arnold
Palmr, John W., 418 W Delaware av
Paris, Croce (Mason), 122 W Eagle
Peacock, Wm. W., 44 Winter
Peggie, Thomas, 511 Crescent av
Pellman, H. F., Mutual Life bldg
Petit, Frank A., 59 Alexander pl
Post, Herman A. (Mason), 91 Preston
Randall, W. J., 145 Potomac av
Ranney, Geo. F., 38 Orchard pl
Rassler, Hugo (Mason), 9 Frederick pl
Reardon & Weyand, 2163 Seneca
Rehler, Frank H., 431 Humboldt Parkway
Reimann, Benj., 463 E Utica
Reinhart, John J., 1971 Clinton
Reynolds, F. T., 525 Prospect av
Rieman, Geo. H., 215 Clinton
Riemer, Adolph. 885 Clinton
Riemer, Otto, 202 Reed
Ringer, Chas V., 107 Edna pl
Robrts, Pascho, 126 Esser av
Roos, Edward H., 636 Linwood av
Rosenkranz, Philip J. P., 18 Sweeney
Rost, Victor, 32 Wohlers
Roth, August & Son, 414 Dearborn
Ruby, Frederick A., 48 Lisbon av
Ryan, M. V., Const. Co.
Sandel, Wm. C. (Mason), 608 Linwood av
Schaaf, Geo. (Mason), 547 E Utica
Schaefer, Henry (Large), 599 Michigan
Schall, Emil & Son, 1535 Genesee
Schlender, Geo. F., 147 Burgard pl
Schmeh, Anthony, 87 Briggs av
Schultz, Geo. S., 352 Glenwood av
Schwedt, Chas., 453 Clinton
Shamo, Joseph, 38 Essex
Siener, Geo. A., 76 Thompson
Simon, Geo. H., 123 Laurel
Slattery, Jas. W., 455 Pearl
Sorgi, Gagriele (Mason), 207 7th
Spang, Joseph, 401 Parkside av
Stage, F. N., 1016 Lafayette av
Steinmiller, Geo., 46 W Balcom
Stewart & Lyall, 262 Sumner av
Stokes' Bros., Brisbane bldg
Sweeney, Eugene, 580 Eagle
Thiedt, Wm., 32 Bardol
Thomas, Richard, 297 Howard
Tilden, J. H. Co., 12 Henry
Tremaine, Wm. J., 131 Congress
Uschold, Wm. J., 437 Madison
Vogt, Bergner & Co., 97 Washington
Wahl, Ernest A., 14 Fox
Waite, Geo. C., 85 Parkside av
Walker, Wm. A., 583 W Utica
Warren, John J., 276 Vermont
Waszewski, Isadore, 475 Sweet av
Watson, John C. (Mason), 295 S Division
Wegener, Louis H., 952 Jefferson
Wheat, Ernest G., 68 Pascal
White, Arthur E., 27 Ripley pl
Wilkes, Oliver C., 42 Tryon pl
Willett, Lincoln A., 315 Woodward av
Williams, W. M., 122 Genesee
Wilson, Chas. E., 1345 Seneca
Wilson, John E., 884 Walden av
Wood, James R., 176 Heath
Woodhouse, Joseph, 282 Baynes
Yokom, Edw. O., 70 Dewitt
Young, John, 172 Tryon pl
Youngman, C. R., 650 West av

CANANDAIGUA—Barrett, J. A. & Son
Brown, Wm. J.
Elton, E.
Hogan, R.
Rouse, Geo. A.
Saunders, D. N.
Smith, Hugh M.

CASTILE—Elitsac Mfg. Co.

CASTLETON CORNERS—(See New York City, Borough of Richmond)

CEDARHURST—Ball, G. M.
Davison, Oliver S.
Smith, E. & Son
Vandewater, D.

CLIFTON—(See New York City, Borough of Richmond)

COBLESKILL—Karker, H. D. & Co.
Murphy, W. H.

COHOES—Archibald, Andrew, Amity nr Columbia
Auringer, Tracy
Reavey, Thos. A.
Buchanan, Wm. D., 29 Imperial av
Clement, Ernest N.
Dooley, Jas. J. & Son, 65 White
Goddard, Aaron
Molleur, Israel
Neary Bros. Construction Co.
Sarrault, Alfred

COLLEGE POINT—(See New York City, Borough of Queens)

COOPERSTOWN—Houck, Lafayette
Smith, John C.

CORINTH—Young, Floyd
Thomas, E. K.

CORNING—Benger, Jno., 11 Montague av
Bradley, J. C.
Corning Building Co.
Ferenbaugh, U. G.
Warner, E. N. & Son
Drehmer, H. J.
Runner, D. M.

CORNWALL—Taft-Howell Co. (Large)
Taylor, Harvey R. (Large)

CORONA—(See New York City, Borough of Queens)

CORTLAND—Beers & Warfield

DELHI—Hume, R. H.

DEPOSIT—Brokaw & Howell
Phillips, J. H.

DOBBS FERRY—Ackerman, Alonzo
Alworth, Wm.
Creedon, Michael
Hasbrouck, Garrett R.
Lester & Cummings
Nichols Cons. Co.
Young, Arthur

DUNKIRK—Aldrich, B. F., 425 Swan
Camello, F.
Dunkirk, Mason Contracting Co. (Not Inc.)
Hubbard, Jas.
Meister Contracting Co.
Richardson, E. T.
Taylor, J. A.
Thompson, L. E.
Union Builders' Co-Operative Cont. Co.

ELMHURST—(See New York City, Borough of Queens)

ELMIRA — Allington, Jacob & Son (Large), Railroad av, c 7th
Compton Realty & Building Co., Masonic
Cunningham, John (Large) Temple
Durfey, Harry L.
Enck & Lowman, 407 Baldwin
Hathaway, Wm. W., 370 Fulton
Johnston, Fredk. H.
McConnell, Chas. E., 206-208 Howe
Miller, C. L.
*Murphy, Patrick
Neish, Wm. A.
Pulford & Dempsey, 157 Falck
Spalding, C. T., 600 S. B'way
Thurston & Haskell (Large), 363 State
Wells & Wilson
Whipple, Albert G.

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Williamson, J. C., 55 Sly
Williner, Wilmot
ELMIRA HEIGHTS—Buckley & Garine
Jackson & McKay
EVERGREEN—(See New York City, Borough of Queens)
FISHKILL LANDING—Jaycox, Edward L.
Murray, James A.
Ryan, Richard C.
Jones, Amos (Mason)
FLUSHING—(See New York City, Borough of Queens)
FORT EDWARD—Clum, B. Ray
Sanderspree, C. W.
FREDONIA—Luke, John F.
Schultz & Goggin
Sly & Coddington
GENEVA—Baker, Chas. W.
Benjamin, C. K.
Brewer, Henry
Crego, William
Finn, Jas. E.
Frantz, Wm. (Mason)
Henry, J. G.
Hilkert, A. B.
Legg, Charles
McLaren, James
Nagel, Samuel (Mason)
Persons, S. F. & Co.
Schnirel, R. R.
GLEN COVE—Burns, D. E.
Lawson, W. I.
Pine, F. A.
Underhill, E. M.
GLENS FALLS—Alexander & Peppers
Denton, Roswell
Floyd, W. J. (Mason)
Hartman, James B.
McAuley, Frank W.
Shippey, Frank P.
Thomson, W. J.
GLOVERSVILLE—Boorman, John J., Jr.
Brace, A. E., 10 Temple
Brott, H. R. (Large)
Duell, Asa E.
Dye, John K.
Dye, Walter F.
Finkle, W. T. & J. J.
Handy, Webster, 16 High
Hays, De Witt A.
Hemstreet, J. E., 335 Hamilton
Henry, A. L., 10 Hamilton
Lair, John M.
Rumrill, Theron E.
Wager, Merritt C.
Waltamath, C. R.
Young, Abram
GRANVILLE—Norton, Alonzo
GREAT KILLS—(See New York City, Borough of Richmond)
GREENPOINT—Albertson Cons. Co.
Fanning, Gilbert & Son
Hawkins, S. A.
Monsell, Isaac A. & Son
Moore, Parker P.
Wells & Butler
HEMPSTEAD—Ansell, Wm. C.
Coles, E. J.
Duryea, Benj.
Patterson, A. G.
Smith, Moses R.
Smith, E. P., Fulton
HERKIMER—Beckwith-Clinton Engineering & Contracting Co.
HIGHLAND FALLS—Dornberger & Darcy
Graber, Leo
Muller Bros. (Large)
HOOSICK FALLS—Bootman, J. & Son
HORNELL—Butler, E. Y.
Miller & Gray
Roberts, H. E.
Spink, Wm. H.
Tacker, Seth L.
Wing, John H.
HUDSON—Cramer & Flick
Cruise, Thomas (Mason)
Fitzgerald, John (Mason)
Hester, Dennis (Mason)
Obermeyer, August (Mason)
Miller, Levi
Saulpaugh, Robert (Mason)
Simmons, Lyman
Van de Carr, Arthur
Weaver & McWilliams
HUNTINGTON—Bunce & Holmes
Conklin, M. B.
Gallienne, Frederick
Ireland, David S.
Wauser & Lewis
Zoeller, Frank
INWOOD—Merritt & Safford
IRVINGTON—Behrens, R.
Buckhout, Sylvester
Gory, Thos
Hunter, Alex. M. & Son
Huston, Bernard
Kiernan, Michael
Lord & Burnham Co.
Murphy, Thom.
ITHACA—Gibbs & Waltz
Hughes, C. S.
Ithaca Contracting Co.
Miller, W. H.
Oltz, S. M.
Sprigg, Edward
Willis, Wm. H.
ISLIP—Hobbs, A. D.
Raynor, Willis P.
Velsor, W. S.
Wright, F. S.
Driscoll Bros. & Co., S Aurora
Ithaca Contracting Co.
Sprigg, Edward
JAMESTOWN—Haas, Chas. (Brick)
Haas, Chas. (Brick)
Lawson, Andrew J.
Lawson, Jno.
Lindbeck, Chas.
Morse, C. E., 109 Winsor
Nelson Bros.
Shellberg & Linquist
Swanson, Chas. (Brick)
JOHNSTOWN—Hess, Jonah, W Main
Howarth, G. H. & Son
Nolan Bros.
Seaman, Jas., 303 S Perry
Simmons, P. M., 18 S Market
KINGSTON—Costello, Wm. D., 237 W Chestnut
Darling Bros.
Dederick, A. E.
Green, W. S., 150 Fair
Gronemeyer, Frank, Sr., Mary's av
Hudler, John H.
Hunt Bros.
McCullough, Wm., 270 W Chestnut
McNamee & Rice
Mauterstock, Albert, 109 B'way
Osterhoudt, Peter C., 48 Clinton av
Powley, J. L. Const. Co. (Not Inc.)
Rhymer, Geo. E.
Weeks & Sylvester
LANCASTER—Adolf, Joseph
Bame, F. W.
Earle, H. W.
Safford, Henry A.
LE ROY—Sherman, E.
LESTERSHIRE—Decker, F. H.
LITTLE FALLS—Boyer, Horace M.
Dale's, Thos. Sons
Eagan, Chas.
LOCKPORT—Blackley, Wm. J. (Large), 54 Pine
Fogle, Jno. C.
Huston, Wm. E., Lincoln bldg
Lardner, Martin
Lentz, B. F.
McDonugh, Martin J.
Mangold, John
Markley, Thomas P., 91 Mulberry
Miland, Patrick F.
Moon, John
Nottleman, Wm. H., 567 Walnut
O'Brien, Andrew M., 339 East av
Ranney & Richardson Const. Co.
Sherman, Edw. W.
Stainthorpe, C. N. & Co., 126 Main
Wille, L. C., 421 Washburn
LONG ISLAND CITY—(See New York City Borough of Queens)
LOWVILLE—Rich, W. H. Son & Co.
Wisner, Chas. & Son
MALONE—Murtogh, P. J.
MAMARONECK—Burger, George
Coles, S. E.
Krewett, J. F.
Reardon, Michael
Sands, Merritt
Spader, Peter H.
MARINER HARBOR—(See New York City Borough of Richmond
MATTEAWAN—Forrestal, James
Holt, John (Mason)
McKee, Wm. J.
Tillman, S. H. (Mason)
METROPOLITAN—(See New York City, Borough of Queens)
MIDDLETOWN—Bates, C. M.
Black, G. H., 5 Bonnell
Donnelly, John
Lewis & Edwards
Lovely, John A.
McWilliams, Edwin
Miller, Peter F., 38 Houston
Stever, D. D.
Haylor, C. Z., 7 John
MILLERTON—Bees & Trafford (Large)
MOUNT VERNON—Borgwald, Fred'k, 31 Pearl
Borgwald, Joachrm
Bradley, Geo. G.
Coyle Bros.
Durr, Sebastian, 318 Locust
Evans, S. T., 118 Park av
Flick, J. H. Cons. Co., 57 S 4th av
Haag, J., 11 W Sidney av
Harris, G. W., 47 Union la
Jenks & Plume
Kain, James
Kolpin, Chris., 229 N 7th av
McCaffrey, Jas. Co.
McCarten, A. J., 246 E Sidney av
Malligan Co.
Moebus, Wm., 261 W Lincoln av
Mottola, Chas.
Nordone, Frank, 232 S 7th av
Petrillo, Bros.
Piro, James, 36 N 4th av
Reehl Bros.
Reid, Jas. M., 202 E 3d
Robinson, Harry J., 149 N 4th av
Robinson, W. J., 341 S 4th av
Sergeant, Wm. H., 139 Franklin av
Stolte Bros., 324 N 7th av
Ultcht, Albert A., 255 S Columbus av
Vernon Contracting & Cons. Co., 8 Claremont pl
Weldon, Geo., 141 Franklin av
NEWARK—Nolan, Wm. H.
Plighter, Wm.
Schattner, John S.
Van Buren, Chas W.
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Burhans, Ira
Burhans, Lewis
Creviling, Whitfield
Convery's, John P. Sons (Masons)
Griffin, Elias P.
Hamilton, William
Hilton, Wm. H.
Huddleson, Robert (Mason)
Metrustry, David (Mason)
Moores, Wm. R.
Sager, William (Mason)
Stewart, James (Mason)
Templeton, Jas. F. & Son
Thorn, Wm. H.
Todd, James
Tweed & Woodruff
Usher, George
Wheeler, H. Ambrose
White & Sons, Geo. A.
Wilson, J. D. (Mason)
NEW ROCHELLE—Anzolut, August, Lockwood av
Bantel, M., 9 5th av
Bartnett, Michael, Old Boston rd
Booker, Marshall O., 6 Prospect
Dassler, S. W., 21 Walnut
Doherty, Michael, Old Boston rd
Doyle, John, 14 Walnut
Eckstein, Gustave, Sycamore pk
Ensinger, Louis V., New Rochelle Heights
Gahan, Jas. P., Hazelhurst pk
Kirchoff, William, Church
McCabe, John
Mahlstedt, Geo. W., North av
Murphy, Patrick H. & Son
New, J. & Son, 24 Clinton pl
Nixito, Frank
Pioneer Cont. Co., New Rochelle Heights
Reid, Thos. J. & Co., 230 Huguenot
Rivers, Anthony J., 236 Huguenot
Rivers, Philip, 98 Walnut
Robinson, Chas. T., 85 Centre av
Smith, Thos. & Son, 37 Morris
Thompson, John N., 121 Church
Walter, J. & A., 121 Webster av
Watson, Geo., Beauchamp
Wilson, S. B.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Abrams & Stockton, 4824 3d av
Akerly, Hiram A., 173 Berry
Andersen, Anton, 100 Raymond
Anderson, Andrew, 5312 3d av
Anderson's, John D. Sons, 359 Fulton
Armendniger, M. & Son, 1153 Myrtle av
Ashfield, F. J. (Large), 350 Fulton
Auer, John & Son, 648 Lexington av
Auer, Wm., 730 Willoughby av
Bauer, Emil C., 6 Stanhope
Beach, George, 86 Logan
Bell, Wm. & Son, 3d av c 93d
Bonert, Louis, 487 4th
Borough Construction Co., 44 Court
Briley, Arthur, 1893 Pacific
Brown, Henry J. & Son, 1534 Fulton
Brown, Rufus H., 1357 Rogers av
Brown, W. A. A. (Large), 738 Flatbush av
Byrne, John, 530 Dean
Calder, Wm. M., 252 Windsor pl
Carlin, F. W. Cons. Co., 307 Washington
Carlin, Thos. G., 8th av, c 2d Parkway
Carlson Bros., 369 Flatbush av
Cashman, Jno. J., 44 Court
Caufield, Jas. A. (Large), 469 Marion
Chapman & Ryan, 35 Lincoln pl
Chatterton, Jas. M., 108 S 8th

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Cieslinskie, A. J., 230 E 9th
Clarke & Stowe, 221 Greenpoint av
Cleary, Peter (Large), 235 Bainbridge
Corbin, Jno. R. & Co., Foster av & Brighton Beach R. R.
Cranford Co. (The), 52 9th
Cranford, Chas. Foster av c 16th
Cranford & McNamee (Inc.), 190 Montague
Cronin, Barth S., 573 Clinton
Dady, Michael J. Co., 350 Fulton
Deighan, James, 2711 Tilden av
Detlefsen, Charles M., 6 Sullivan
Diamond, Bernard, 18 Bergen
Dickson, Robert, 208 S Oxford
Doenecke, Christian J., 216 Washington av
Donlon, Thos. C., 294 Butler
Draper, Hy. C., 247 Bridge
Driscoll, George F., 548 Union
Eberle, Otto A., 10 Nassau
Eckart, F. W., 174 Huntington
Edling, Julius, 211 Sumpter
Eggers, John D., 599 Leonard
Etter, N. A., 128 Kosciusko
Ferguson, Robt. B. (Large), 254 Lee av
Fitall, John C., 142 Emerson pl
Franz, Chas., 365 Kosciusko
Frazer, John, 44 Rochester av
Fuller & O'Connor Const. Co., 26 Court
Gallagher, B. & Son, 134 B'way
Gallagher, F. J., 490 Park pl
Gately, A. L., 114 Bedford av
Gay, W. C., 410 Berry
Gibbons, John, 504 Court
Gittins, Edward, 162 7th
Gload, Adolphus, 804 Jefferson
Greeman, W. B. (Large), 350 Fulton
Greer, Andrew H., 502 Franklin av
Grening, Paul C. Construction Co., 26 Court
Hall, Alzie C., 146 Cumberland
Hall, Rhinehard, Coney Island av nr Avenue O
Hansen, Harry, 308 President
Hart, Chas. 617 Degraw
Herman, Cons. Co., 199 Montague
Herod, Wm., 256 E 32d
Hesterman, John, 174 Hamburg av
Hill, Henry B., 215 Montague
Hodgson, Jos., 474 Sumner av
Holler, J. & F., 17 Kosciusko pl
Hossack Bros., 62 Schermerhorn
Hough, Samuel L. (Large), 344 Roebling
Hoyt, Frank H., 83 Ashland pl
Humbert, Paul, 781 Atlantic av
Jersey Construction Co., 1041 Pacific
Johanson, John A., 98 Stuyvesant av
Johnson, Nicholas, Avenue X nr E 14th
Jung, Fred'k, 273 Evergreen av
Kane, Jas., 82 Rapelye
Kay, Wm. E., 4605 5th
Keeler, Jno. J., 344 Sackett
Kelly's, F. J. Sons, 215 Montague
Kennedy, Jno. & Son, 175 Front
Kerr & Scott Const. Co., 60 Crescent
King, Martin, 844 Madison
Kinsey, Jno., 14th av & 73d
Kirches, Henry, 51 Butler
Kleinert, Albert E., 16 Court
Kohlmeier, Wm., 318 S 1st
Kordes, Henry E., 243 Moffat
Lineburgh Bros., 700 Lexington av
Lusso, Hector, 89 Fulton
MacArthur, Jas., 22 Ormond pl
McGarry, Wm. P., 236 Huron
McKane, Theo., Surf av c W 8th
McNamee, John, 16 Court
Mack, Andrew T., 406 9th
Mader, Louis, 220 Vernon av
Maguire, E. J., 1384 Dean
Maillie, Jno. F., 1253 Prospect pl
Martin, Geo. J., 1440 Flatbush av
Martin, Lemuel N., 1317 Fulton
Meehan, Thos. F. & Co., 47 Van Brunt
Metzler & Hadden, 164 Reid av
Meyer, Henry Bldg. Co., E 25th
Miller, Wm. G., 16 Bedford
Miller & Schmidt, 394 Waverly av
Monahan, Thos. & Sons, 190 3d
Moore, John W., 307 Kingsland av
Moran, Wm. J., 134 B'way
Morrison, Geo. N., 228 State
Murphy Bros., 25th av c Cropsey av
Murray, P. J., 20th av, c 78th
Nelson, John F., 693 Hicks
Newman Cons. Co., 215 Montague
Norris, Fred'k B., Midwood c Flatbush av
Norton & Gorman Cont. Co., 303 Douglas
O'Grady, John, 69 N 8th
Olsen, Andrew, 1650 59th
O'Rourke, John H., 264 39th
Otis, H. F., 488 Clermont av
Peterson, Martin, 42 Seeley
Phraner, Chas. A., 431 Carlton av
Port & Crane Co., 233 Norman av
Post, Samuel W., 7704 19th av
Pruden, Chas. L., 468 59th
Ratner, Louis, 341 Stone av
Reynolds, Chas. G., New York av, c Lincoln pl
Riley, Jas. S., 645 Degraw
Rocker, Henry, 129 Bradford
Rush, Frank H., 393 Greene av
Rush, Myron C., 327 Franklin av
Ryan, Daniel J., 723 3d av
Sage Bros. (Inc.), 1017 Gravesend av
Sawkins, Wm. H., 450 Argyle rd
Schneider, Christian, 122 Debevoise
Schneider, N. Sons Co., 142 21st
Sherwood, Samuel T., Dorchester rd c E 19th
Singer, Frank L., 1181 Brunswick av
Singer, Otto, 621 St. Johns pl
Sley, Jas. & Sons, 6913 3d av
Smith, Howard J. & Son, 256 St. James pl
Smith & Thompson, 47 Park pl
Stiner, Munroe, 4718 6th av
Strauss & Charig, 778 Remsen
Sutterlin, Ernest F., 13 Russell pl
Toback, David, 1513 Eastern parkway
Trevor, John, 161 Rodney
Tritschler, Chas. C., 214 Bainbridge
Tunison, Willard E., 262 Greene av
Vail, Edward G., Jr., Bay 22d nr Bath av
Van Duyne, Frank E., 94 Bradford
Van Gassbleck, R. N., 225 Adelphi
Veit, Herman, 255 De Voe
Volfrei & O'Hearn, 417 40th
Wagner, Jos., 84 Debevoise
Walker, John J., 474 Classon av
Weekes, Samuel M., 66 S 10th
Welch, Wm. L., 456 Tompkins av
Welcher, Chas., 60 Patchen av
Wilson, John, 456 14th
Wischerth, Adam, 179 Boerum
Wood, Boyd H., 439 43d
Woodham, Frederick R., Cortelyou rd, c Stratford rd
Wright, Wm. W., 250 Vanderbilt av

## Boroughs of Manhattan & Bronx.

NEW YORK—Acker, Henry, 1338 Prospect av
Acme Building Co., 32 Union sq E
Adams, C. J., 24 Gold
Adams, Louis, 217 5th
Adamson, J. H., 57 Ann
Ahneman & Younkhere, Bailey av c W 234th
Alexander, Robert, 119 W 24th
Allegro & Spallone Const. Co., 317 E 154th
Amend, Geo., 16 Grand
Ammann Mfg. & Cons. Co., 155 Avenue D
Amsterdam Bldg. Co., 41 W 27th
Anderson, Alfred B., 56 E 122d
Anderson, John C., 67 Pearl
Anderson, Wm. & Son, 148 W 37th
Angus, John, 152 E 36th
Anselmo & Martino, 84 Carmine
Ast, Chas, 2072 Belmont av
Baecker, Geo., 160 Maiden la
Ball, Stephen, 3682 B'way
Banta, John G., 8 University pl
Barrow, William, 45 Pine
Barry, Edward, 106 W 103d
Barry, Edward A., 1149 Boston rd
Baxter, Chas. R., Middletown rd
Beers, Isaac, 114 E 23d
Beinhauer, Alfred (Large), 289 4th av
Benenson, Benj., 407 E 153d
Benjes, Christian & Son, 80 Avenue A
Bennett, Wm. H. & Son, 133 Cedar
Benson Bros., 306 W 133d
Berlin Cons. Co., 220 B'way
Berrie, Joseph. Von Humboldt av nr W 259th
Berry's, Martin H. & Son, 60 Cliff
Best, H. D. Co., 103 Park av
Bishop, J. W. Co., 345 5th av
Blaine, James T., 231 W 46th
Blewett, Jas., 663 Lexington av
Block, David L. Co., 79 W 181st
Boland & Son, 204 E 64th
Bond, Alfred, 334 W 24th
Booth, H. F., 1123 B'way
Booth, S. H. & Sons, 30 Centre
Boran, Michael F., 910 9th av
Borgia Contracting Co., 1133 B'way
Bottsford, Dickinson Co., 1170 B'way
Boyle, Frank & Sons, 500 W 44th
Braender, Philip, 141 W. 125th
Breen & Rinn, 510 E 71st
Brengel, Wm., 755 7th av
Brennan, Peter J., 624 Madison av
Bresnan, Peter J. & Sons, 538 W 35th
Brigham, Walter S., 2255 B'way
Broderick, Edmund D., 1382 Lexington av
Brogan, Wm. J., 1667 3d av
Brose, Andrew, 1 Madison av
Brown, Alex. Jr., 33 E 20th
Brown, W. J., 600 W 136th
Buckley, Jos. R., 843-947 6th av
Bulman, Hy. T., Ft. Washington av & 160th
Bunn & Nase, 1123 B'way
Burke, Jas. A. & Son, 180 W 102d
Burke, Luke A. & Sons (Large), 25 W 42d
Burns, Wm. N., 103 E 125th
Butler Bros. Const. Co., 1170 B'way
Byrne, Jas. C., 434 W 54th
Calumet Construction Co., 15 E 59th
Cameron, Alex., 241 W 120th
Campbell, Christopher, 10 E 33d
Campbell, Wm., 214 W 68th
Canavan Bros. Co., 518 W 36th
Cane, W. H. & F. W., 17 Park row
Carlin, P. J. Construction Co., 16 E 23d
Casey, Richard H. (Large), 109 W 30th
Centurian Concrete Steel Co. (Concrete Construction), 1182 B'way
Chandler, B. D., 11 Thompson
Chapman, Robt., 1874 Park av
Christie, Jordan, 1233 3d av
Christie, Robert & Son, 122 W 29th
Chute, H. N., 23 E 86th
Cippolla, C. & Co., 2d av & 213th
Clark, Jas. A., 464 Canal
Clark, John W., 86 Roosevelt
Cluse, Robt. J., 509 Willis av
Cobban, G. & J., 162 W 21st
Cobban, Robert & Sons, 961 Columbus av
Cockerill, Thos. & Son (Large), 147 Columbus av
Coffey, Wm. J., 498½ W 55th
Colon, George & Co., 81 E 125th
Colonial Const. Co., 2 Rector
Colwell, Hugh, 395 Brooks av
Comyns, David J., 147 4th av
Concrete Steel Co., 29 B'way
Connors, Thos. D., 1123 B'way
Conover, Frank E., 253 B'way
Conrady Bros., 232 E 42d
Cook, Ferguson A. & Son, 127 W 40th
Cook, O. W. & Son Co., 127 W 40th
Corning, Edward Co., 100 William
Corson, George W. & Sons, 161 E 84th
Cosgrove, David W., 142 W B'way
Coventry, Frank, 1230 Lexington av
Cowen, Chas. A. & Co. (Large), 1123 B'way
Craig, Wm., 42 W 67th
Cramp & Co. (Large), 36 E 23d
Crawford, Wm., 5 E 42d
Crockett, Thomas A., 179 W B'way
Crockett, W. & W. F., 306 E 59th
Cronk, John, 115 W 37th
Crosbie, Martin J., 240 Spring
Cunningham & Kearns Cont. Co., 434 E 91st
Cusack, M. F., 233 Grand
Dall, J. Construction Co., 10 E 23d
Davie, Jas., 107 W 100th
Davin, D. W., 74 Irving pl
Davis, John W., 543 W B'way
Davis, Jos. H. Bldg. Co., 281 Edgecombe av
Davis, Jos. W., 211 E 19th
Davis, R. L., 625 Hudson
De Baun, Jno. F., 1368 B'way
Deeves, J. H. & Bro., 287 4th av
Deeves, Richard & Son, 309 B'way
Deisler & Stevenson (Large), 225 5th av
Delaney Bros., 63 Madison
Densmore-Compton Bldg. Co., 307 Fifth av
Deverman, Chas. E., 2040 Blackrock
Devine & McGrail, 51 Ann
Devlin, John O. Co., 103 Park av
Diamond, Joseph, 1139 Wyatt
Dick, James, 941 6th av
Diller, Wm. E., 101 W 66th
Dixon, Wm. F. Bldg. Co., 949 B'way
Doane & Edelman, 126 William
Doern, Peter, 18 E 42d
Donahue, Cornelius A., 175 Waverly pl
Dowd & Maslem, 217 W 125th
Downey, Jno. (Est. of), 410 W 34th
Duffy & Collin, 131 W 31st
Duncan, Alex. & Son, 101 Prince
Duncan, Wm. M., 852 Washington
Durkin, Jno. J., 1 Madison av
Eakins, John R., 689 Columbus av
Edgar's, Geo. C., Sons, 2 W 88th
Egan, Jas. F., 64 Ann
Egan & Hallecy Const. Co., 284 Columbus av
Eickhoff, Chas. F., 2704 B'way
Elgar, James, 103 Park av
Engesser, Henry, 403 E 16th
Erskine, Archibald Jr., 126 W 19th
Evans & Thomas, 147 W 53d
Farley, James A., 571 5th av
Ferguson, Robt. & Sons (Inc.), 119 Manhattan av
Fessler, Albert L., 451 W 40th
Finley & Hanford, 124 William
Finney Building Co., 103 Park av
Flanagan, Thos. J., 217 E 125th
Fountain, Gerard, 103 Park av
Fountain & Choate (Large), 114 E 23d
Fraad Contracting Co., 245 W 26th
Frame, Jas. A. & Son, 830 Westchester av
Frisbie, Benj. F., 455 E 164th
Fuller, Elam H., 175 W Houston
Fuller, Geo. A. Co., Fuller bldg
Gabler Const. Co., 339 W 18th
Galbraith, Andrew, 607 W 46th
Gallagher, Patrick, 1181 B'way

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Gallin, Jno. W. & Son, 509 Grand
Gamp, Henry S., 1935 Clinton av
Garland, James J., 8 Peck slip
General Bldg. Cont. Co., 177 Cherry
Gest, Guy M., 277 B'way
Getty, Hugh, 359 W 26th
Gilbert, Wright L., 144 Chambers
Gilleran, M. J., Pond pl & 197th
Gillespie, T. A. Co., 90 West
Gillies, Campbell Co., 1 Madison av
Giordano, Thomas, 864 E 180th
Goetschius, John H., 539 Hudson
Goldman, Chas. A., 6 Liberty pl
Graf, Henry, 391 Avenue A
Grant, Alex., B'way & 178th
Grant & McCloskey, 1123 B'way
Gray, A. & W. & Co., 237 W 37th
Green, Warren E., 1133 B'way
Greenlee, Wm., 429 E 238th
Greenless, Thos., 3762 Barnes av, Williams-
Gross & Herbener, 162 E 23d bridge
Guidone, T. & Galardi, 162 E 23d
Gumpel, David L., 83 Bleecker
Gunn & Grant, 2335 Old B'way
Gussaroff, Elias, 600 W 140th
Haas, Julius, 221 E 59th
Haas & Freid, 90 E 10th
Hall, W. W. & T. M., 11 E 42d
Hammer, Ernest E., 2850 Marion av
Hankinson, Christie Co., 232 W 40th
Hanretty, Wm. R., 2110 Prospect av
Harding, Lewis, 335 E 46th
Hardy, Geo. H., 119 W 30th
Harper, William G., 229 W 50th
Hartman & Horgan, 934 Ogden av
Haydock, Ephraim, 300 W 11th
Hearn, John J. Const. Co., 509 Fifth av
Hedden Construction Co., 1 Madison av
Hedlund, John, 218 E 21st
Heesch & Sibbert, 131 Beekman
Henderson, Alex., 307 W 21st
Henderson, Wm., 3017 Eastern blvd
Hendrickson, C. Cyril, 20 W 34th
Heningham, R. E. (Builder), 1 Madison av
Hennebique Construction Co., 1170 B'way
Herbst & Co., 25 W 42d
Hildebrand, Geo. (Large), 38 Park row
Hillers, August H., 184½ E 72d
Hilyard, Geo. D., 215 E 36th
Hines, Frank H., 104 W 124th
Hirschey, Urban C., 18 E 42d
Hoe's, James C., Sons, 10 Liberty pl, 831
Greenwich & 54 Gansevoort
Hoffman, Wm. H. R., 273 W B'way
Holding, Wm. F. (Large), 2426 Davidson av
Holmes Bros., 265 B'way
Holmes, Jas., 53 King
Hopper, Isaac A., 231 W 125th
Horne, Wm. Co., 71 W 132d
Horsfall Const. Co., 20 E 42d
Houlihan, Daniel, 2867 Bainbridge av
Houston, Thos. H. & Son, 101 W 57th
Hubener & Eschner, 748 Melrose av
Hughes Bros., 162 W 27th
Hunt, James W., 653 E 236th
Hurley, John, 114 W 39th
Hynd Bros., 30 Church
Imhoff, Anthony G., 249 W 18th
Jacob, A. & Son, Morris av & 179th
Jacob & Youngs, 1133 B'way
Jeans, Edward, 59 Carmine
Jennings & Welstead, 237 W 50th
Johnson, Robert, 204 E 58th
Johnson, N. & Co., 314 Madison av
Johnston, Bros., 1567 Park av
Johnston, Jas., 325 W 11th
Johnstone, Jas., 3284 Hull av
Jones Construction Co., 1 Union sq
Jones, Thomas W., 32 Burling sl
Jorgensen, Chas. G., 1283 Hoe av
Jung, Jacob, 131 E 83d
K. L. & W. Cons. Co., W 145th nr St.
Kelley, Samuel D., 4 Gold Nicholas av
Kelly, Joseph, 189 9th av
Kelly, Robert E. .220 E 41st
Kelly & Kelley, 45 E 42d
Kennedy, John J., Mosholu av nr B'way
Kennedy, Jno. & Co., 1133 B'way
Kennedy, Richard, 619 10th av
Kennelly, Maurice V. & Son, 64 Vesey
Kerr, James F., 205 W 30th
Kerwin, Andrew J. Co., 1133 B'way
Ketcham, Treadwell, 420 E 165th
Kerwin, Andrew J., Jr., 53 W 24th
Ketcham, Treadwell, 694 E 165th
Kirkpatrick, Wm. J., 437 Lenox av
Klappert's, C. W. Sons, 328 E 25th
Klein, Wm., 418 E 83d
Klein, Wm. & Sons, 191 E 3d & 505 E 15th
Kramer, Max J., 35 Nassau
Kreps & Nezold, 80 Duane
Lahr's, A. Sons, 50 3d av
Laimbeer, John Jr., 103 Park av
Lanning, Wm. A., 300 W 152d
Larrimer Construction Co., 30 Church
Lawrence, Isaac C., 348 W 16th
Lawrence, R. Warren, 348 E 140th
Lawrence, Thos. H., 110 Greenwich
Leahy, Thos. B. Bldg. Co. (Large), 1 E 42d
Leddy & Moore, 41 Christopher
Lein, H. W., 425 W 43d
Levin & Levin Contracting Co., 320 5th av
Lewis, Geo. W., 407 E 31st
Lindsay, Joseph, 103 Park av
Lithgow, George W. & Son, 41 King
Long & Trenholm Co., 362 Willis av
Lowry, Jas. L., 305 W 40th
Lstbader Const. Co., 1464 Fifth av
Lustig & Weil, 157 E 85th
McAfee, Robert, 55 Ann
McBrien, John. D., 71 Morton
McCallum, John, 323 E 22d
McCarty & Macy, Westchester av, c South-
McClosky, James, 580 W 187th ern blvd
McCullagh, John H. & Sons (Large), 148 W
McDermott & Hannigan, 404 W 17th 4th
McEntee & O'Brien, 1123 B'way
McEntyre, P. B. & Son, 401 Greenwich
McGill, Hugh, 101 W 88th
McGillen, J. J. & Co., 300 E 31st
McGregor, Chas., 235 Third av
McGuire, T. J. Cons. Co., 100 W 139th
McKean's, Wm. Sons, 200 E 38th
McKee, John, 2200 Eigth av
McKee, John, 372 Lenox
McKeefrey, John, 1416 B'way
McKeown, Thos., 103 Park av
McKiernan, Jno. J., 2421 B'way
McKune, C. S. Co., 503 5th av
McNulty, John, 3058 Bainbridge av
McWalters, James, 2434 B'way
Macdonald, Jno. H., 359 W 16th
Maguire, Michael, 88 Greenwich
Maher, William G., 1133 B'way
Mahony Bros., 101 W 42d
Mahoney, Robt. J., 1133 B'way
Manson, Donald A., 50 New
Markenfield Const. Co., 50 Church
Marschall, Frank, 142 E 42d
Mathison, Jas., 547 Broome
Meehan, Jas. F. Co., 875 Hunt's Point av
Melin, Otto, 176 Wooster
Metz, I., 179 Third av
Meyer, Frank, 1299 Lexington av
Miller, Wm. S., 141 E 40th
Milliken Bros., 11 B'way
Mitchell, Donald, 304 W 53d
Mitchell, Jas. E., 334 W 24th
Monk & Vermilya, 98 Eigth av
Moore's, A. Sons, 1 W 68th
Moreland, J. & L. Co., 1910 Park av
Morgan, Chas. F., 14 Pearl
Morison, David, 119 W 33d
Morrell, Cornelius S., 59 Ann
Mortensen & Co., 401 W 24th
Muldoon, Francis, 624 Madison av
Muller, Louis, 500 5th av
Mulligan, Geo. Co. (Large), 33 E 32d
Murdock, Harvey (Large), 116 Nassau
Murphy Bros., 489 Fifth av
Murphy, John H., 1026 6th av
Murphy, Patrick, 371 E 14th
Murphy, Patrick, 371 E 144th
Murray, Wm. J., 316 E 96th
Murray, Wm. J., 147 E 125th
Murray & Charleston, 146 E 16th
Naumann, Henry C., 128 E 87th
Nelson, Andrew, 158 E 115th
Nesbit, F. T. Co. (Inc.) (Large), 116 Nassau
Nickisch, Jno. H., 217 W 125th
Nickisch, Theo. H., 1843 Harrison av
Niewenhous, S., 1 Madison av
Noble & Gaus Const. Co., 862 Elton av
Norcross Bros. Co., 160 5th av
North Eastern Cons. Co., 225 5th av
Nurnberg, Paul, 219 E 59th
O'Brien Bros., 55 South
Ocemore Building Co., 435 W 147th
O'Connell & Hanna, 271 W 125th
O'Connor, Francis X., 249 W 52d
O'Keefe, Jno. J., 1 Hague
O'Leary, John J. Co., 39 Cortlandt
Oppenheim, L. & S., 1571 Second av
O'Rourke, T. B., Newbold av, n Castle Hill
O'Shea, P., 148 W 28th av
O'Shea, Walter L. & G. H., 29 B'way
Otis, H. W. & Co., 39 E 42d
Outwater, Edwin, 225 Fifth av
Ovens, Edward, 106 W 135th
Overhulse, Benj. F., 179 E 77th
Parker, John H. Co., 42 E 23d
Parkinson, Charles, 67 Greenwich
Parry, Elton E., 2231 B'way
Partridge, Chas. R., 1123 B'way
Pasquini, Attilio, 1123 B'way
Paul, Edw. E., 289 4th av
Peaston, Peter, 372 Water
Peckworth, Chas. H. (Large), 415 Hudson
Penney, Thos., 19 Thames
Pennock, J. E. & A. L., 1133 B'way
Perry, Wm. H., 3226 Hull av
Pfost, Gustave, 187 Franklin
Pfund, Hippolyte, 342 E 61st
Pigueron, Geo. H., 32 Union sq. E
Pihlman, Gustav I., 266½ William
Poerschke, Edw. R., 107 Bible House
Polley, Jacob W., 1023 Washington av
Potter & Foubister, 132 W 16th
Potterton Bros., 215 W 28th
Power, James, 482 Pearl
Probst, Herman, 103 Park av
Prodgers, Geo. W., 287 4th av
Pugh, Paul B. & Co., Riverside dr & 109th
Quinn, Thomas J., 3219 3d av
Rae, Thomas & Son, 253 W 27th
Raiman & Ackerman, 241 E 29th
Randall, Stephen M. & Son, 1123 B'way
Rapp Cons. Co., 301 E 94th
Rasmussen, James, 126 W 19th
Ravekes, Albert & Son, 6 Sullivan
Ray, F. A., 240 W 23d
Reed, Washington, 312 W 43d
Regan, Edward, 16 Abingdon sq
Reid, M. & Co., 114 W 39th
Reinhardt Bros., 643 5th
Republic General Cons. Co., 34 W 33d
Rice, Lawrence J., 103 Park av
Richter, George, 100 William
Riley & Corrigan (Inc.), 140 W 42d
Rixson, Oscar C., 7 E 42d
Robb, James, 341 W 31st
Roberts, James S., 189 E 115th
Roberts, Jno. B. & Co., 1 Madison av
Roberts, P. & Co. (Inc.), 37 Sullivan
Robertson, John, 1046 St. Nicholas av
Robertson, John, 708 E 138th
Robertson & Gammie, 708 E 138th
Robinson, A. J. Co., 123 E 23d
Robinson, J. C. & Son, 1 Madison av
Rodler, Albert, 186 William
Rodgers, J. C. & Son, 121 W 125th
Rogers, Geo. W. & Co., 29 B'way
Ross-Push Co. (Large), 34th & B'way
Ross, Chas. R., 20 Cedar
Rossell & Pfeffer, 1 Madison av
Rubing, Henry, 243 E 38th
Ruddell, Geo. W., 25 W 42d
Rue, Elwood, 219 W 29th
Russ, John P., 984 2d av
Russell Contracting Co., 156 5th av
Russell, Edward M., 165 Crosby
Rutherford, Richard A., 336 Delancey
Ryan-Parker Cons. Co. (Large), 21 Park row
Ryan, Peter J. (Large), 314 W 44th
Savage, W. E. & Co., 37 Liberty
Schaefer, John V. Jr. & Co., 5 W 31st
Schoeffler, Frank C., Bible House
Schlesinger, Max I., 449 W 41st
Schloss, D. & Sons, 234 Delancey
Schmitz & Eulenstein, 1960 Anthony av
Schnaier, Robt., 957 Madison av
Schubiger, Jacob, 242 Pearl
Schuck, Geo. A., B'way & 177th
Scott, John H., 63 Prince
Scott, Thos., 400 W 53d
Schuh, Chas. P., 4 Albany
Schuyler, Philip, 121 Watts
Schwarzler, Albert J., Brook av & 169th
Scrafford, Fred. A., 315 W 21st
Sebover, David, 620 6th av
Sedore, Conrad, 79 Charlton
Sexton, Wm., 136 W 34th
Shone, James, 207 W 20th
Silman & Whittle, 114 University pl
Silverman, C. M. & Sons, 3492 B'way
Singhi, Henry W., 2648 Jerome av
Slevin, Jas. J., 2538 Eighth av
Sloane & Moller (Large), 316 E 65th
Smith, Charles & Son, 102 Maiden la
Smith, Elward & Co., 43 Ann
Smith, F. V. Contracting Co., 147 E 125th
Smith, Havilah M. & Son, 99 Varick
Smyth, Samuel, 41 Liberty
Snare & Triest Co., 143 Liberty
Sodergren, Eric, 159 St. Nicholas av
Somerville, Wm., 317 E 122d
Southern & Marshall, 207 E 49th
Spangenberg, Chas., 211 E 59th
Spence, James, 131 E 18th
Spence, Jas. B., 232 W 149th
Springsted & Adamson, 424 E 107th
Staats, Wm., 225 E 58th
Staiger, Chas., 224 E 9th
Stannard, Ambrose B., 1133 B'way
Stanton, George, 37 Lafayette
Steel, Alex., 228 W 10th
Stegmayer, Jas., 168 E 91st
Steward, Duncan, 131 W 124th
**STEWART, JAS. & CO. (Large), 30 Church**
Stewart, P. C. Co. (Large), 1123 B'way
Stoddard & Hughes, 246 W 29th
Story & Flickinger, 5 Gt. Jones
Strand, Anton, 152 E 53d
Sullivan, Patrick, 389 Broome

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Sutherland & McNeill, 265 Greene
Swallow, W. Shelton Co., 507 Fifth av
Taylor, Wm. J. Co., 7 E 42d
Temple & Veraneau, 217 W 125th
Tennant, John H., 4 7th av
Thompson-Starrett Co. (General Building Construction), 49 Wall
Thompson, Walter E., 1123 B'way
Thornton Bros. Co., 1320 Clay av
Tide Water Bldg. Co. (Large), 1499 B'way
Trapp, Nicholas H., 17 Thames
Turner, Ernest M., 1123 B'way
Udall, John Clark, 29 W 34th
Ungrich, L. K. & L., 1676 Amsterdam av
Utterson, Chas. S., 908 6th av
Vail, Benj. H., 58 West
Van Aken, Chas. H., 148 W 4th
Van Doorn, Wallace & Son, 229 W 36th
Van Houten, Erskine, 1181 3d av
Van Name & Co., 80 Wall
Van Wagoner-Linn Cons. Co., 110 W 28th
Vickers Const. Co., 1777 B'way
Vondendriesch, Albert (Large), 204 E 86th
Vought, H. & Co. (Large), 103 Park av
Vreeland, J. C. Building Co., 1 Madison av
Wahlig, Frank A. Co., 406 E 149th
Wakeham & Miller, 103 Park av
Walker, Geo. L. Co., 571 W 139th
Wallace, Wm., 203 W 18th
Walsh, John F., Jr., 136 Charlton
Walsh, J. F., 2391 Tiebout av
Walsh, P. Co., 420 W 25th
Walsh, Patrick J. (Large), 280 Columbus av
Walsh, Richard L. Co., 100 William
Watson, John, 259 W 21st
Watson, Thos. B., Jr., 122 William
Watt & Sinclair, 160 5th av
Watts, William, 38 W 13th
Webber Construction Co., 1 Madison av
Weber, John & Sons, 12 E 23d
Weber, Louis Building Co., 1 Madison av
Webster, Lewis C., 59 William
Wechsler, Louis, 1133 B'way
Weeks, D. C. & Son, 287 4th av
Wells Bros. Co., 160 5th av
Wendt, Chas., 261 Pearl
Wennemer Bros., 2146 Honeywell av
Westervelt, John D., 50 Grove
West Side Cons. Co., 200 Riverside av
Wexler, Adolph, 204 Bush
Whisten, Stephen A., 25 W 42d
Whitenack, J. Odell, 99 Vandam
Wielandt, Michael, 166 E 23d
Wilkens, Henry, 207 E 51st
Williams, Jas. C., 241 W 125th
Williams, John T., 114 Liberty
Wills, Chas. T. (Inc.) (Large), 156 5th av
Wills & Marvin Co., 1170 B'way
Wilson, Andrew, 53 Rose
Wilson, J. B., 11 E 10th
Winberg, William, 15 E 13th
Wright, Garret S., 421 W 24th
Wright, Wm. H. & Son (Large), Valentine av & 192d
Wright & Brown, 304 W 25th
Young, G. Thos., 206 W 51st
Young, Wm. Co., 650 W 41st
**ZIMMERMANN, JACOB A. (Large),** 505 Fifth av. (See adv. index, end of book)

## Borough of Queens.

AQUEDUCT—(See Woodhaven)
ARVERNE—(See Rockaway Beach)
COLLEGE POINT—Carroll, Patrick
Muller, Herman
Rau, John F.
CORONA—Collison, Chas.
Dioguardi, Chas.
Labriola, Frank
Monteverde, Frank S.
Rausciana, Domenico
Schrott, Ames, 35 Prospect
LOUGLASTON—Hamilton, Wm. J., Pine
ELMHURST—Card, W. C.
Kempf, Otto
Lurz, Frank, 7 Plain
Surbeck, E. F.
EVERGREEN—Kull, John
Michel, John
Obach, Geo. Peter & Son
Roeder, Fred.
Spitzer, Geo.
FAR ROCKAWAY—Borchardt, Max
Bouker, D. C., Jr.
Fulcher, Chas. A., Grove nr Cornago av
Kaiser, Geo., Remsen av
O'Rourke, Ralph, Grove
Pepper, T.
Roche, Edward, Grand View av
FLUSHING—Cadoo, John C. W., Amity
Christ, John M.
Fowler, Jos. B., 151 Washington
Fox, M. H., 20th
Grimmer, Henry G., 189 22d
Haak, Wm. A., 318 Barclay
Mara, P. J., Whitestone av
Peace Bros.
Richardson, Edw., 43 Percy
Roberts, Evans J., 330 Amity
Roberts, Bull & Co., 93 Amity
Simmons, John J., Lincoln
Stapleton, Edward
Sullivan Bros., 11 Main
Walters & Woodill, 32 Madison av
Warfield, Geo. A., 3 Wilson av
Wilson, John H.
GLENDALE—Quinn & Grennan
Stier, Paul
JAMAICA—Anderson, John E.
Burke, E. H.
Bangert, Valentine, 34 Orchard
Carmen, Fred'k E., 101 Harriman av
Carmen, Stephen, 32 Ackroyd av
Cohen, Koppel
Hoffman, Chas., 21 Ackroyd av
Meyn, Henry, Canonbury rd
Mullen, H. J., Fulton
Siebert, Martin, New York av
LONG ISLAND CITY—Brahy, Jno. N., 288 Crescent
Brown, Thos. A., 699 Crescent
Clark & Tuniston, 188 Jackson av
Couch, Wm., Main cor Woolsey
Fischer, Geo. & Co., 406 12th av
Foster, Joseph H., 459 Steinway av
Geiser, Jos., 835 Albert
Herold, Christian, 219 First av
Koch, Wm., 543 Steinway av
Miller, Philip, 30 Wilbur av
Murnane, James 272 Crescent
Pearson, S. & Sons (Inc.), Front
Richensteen, Wm., 36 Jackson
Smith, John, 491 Radde
Stevenson, Jas. A., 3 Court sq
Van Riper, F. G. & G. T., 24 Jackson av
Weeks, D. C. & Son, Gale
Woodruff, C. Curtis & Co., 213 10th
Woodruff, J. T. & Son, 65 3d
MASPETH—Lesee, Frank
MIDDLE VILLAGE—Ehman, Chas.
OZONE PARK—Beadle, V. H.
METROPOLITAN—Kirchner, W. & Son
Knolt, L.
RICHMOND HILL—Collins, Thos., Chestnut
Reichard, John F.
Reis, Chas., 230 Briggs av
Riis, Andrew J.
Vetter, C. Ernest, Hillside av
Wade, W. H., Jr., 415 Grant
White, J. A.
Woodin, David B.
ROCKAWAY BEACH—Esterbrook, Le Grand
Gloss, Geo. H.
Jorgensen, Joseph
Stultz, Geo.
WINFIELD—Klein, Theo.
Tymann, Christian, Madison av
Worth, W. S.
WOODHAVEN—Brust, John
Guthy, Peter
Singer, Chas., Woodhaven av

## Borough of Richmond.

CASTLE CORNERS—Vroom, G. B. & Son
Vroom, Richard B. & Son
DONGAN HILLS—Butler, T. E.
FORT WADSWORTH—(See Rosebank)
GRANITEVILLE—(See Port Richmond)
MARINER HARBOR—Bailey, Robert & Son, 15
Osborne, W. & Son Lockman av
NEW BRIGHTON—Brabyn, Edwin, York ter
Cahaline, Daniel J.
Lyon, Robt., 96 York av
McIntyre, Archibald
Norman & Young, 1st
Ripley, David, 4th av
Russell, Wm. H. C.
NEW DORP—Coleman, J. S.
PORT RICHMOND—Conklin, H. M., Richmond ter
Donovan Bros.
Hagaman, Andrew
Hardy, Chas.
Milnes, John Co.
Simonson, Henry L. & Co.
Whitford, E. K.
PRINCE BAY—Peterson E.
ROSEBANK—Willshaw, Thos. H.
STAPLETON—Beinert, Chas.
Cummings, Thos., Jr., 15 Metcalf
Langworthy, Henry J.
McDermott, Wm.
Morgan, Thos., 58 McKern
Spruck, Henry L. & Son, 181 Broad
Wolff, Philip & Son, 14 Wright
TOMPKINSVILLE—Andrews, W.
Peterson, Henry
TOTTENVILLE—Joline, Wm. E.
Lee Bros.
WEST NEW BRIGHTON—Archer, Christopher, 20 Bodine
Donovan, J. F., Henderson av
Filmer, Drew
Lynch, Wm. H.
Markham, Clarence H.

## (End of New York City)

NIAGARA FALLS—Allen, Fred. J.
Andrews, Thos. Sons (Masons)
Bartlett, Percy L.
Blows, Russell
Brass Bros. Co.
Brown, Lewis
Cowdrick, William J. S.
Eagen & Cox
Elia, Frank
Fairl, Peter
Finnell, John H.
Hartman, Fred.
Horst, Geo. & Son
Lennon, John Son & Co.
Martin, Bernard J.
Mitchell & Willson
Neighbour, Frank
Newson, David E.
Obemhack, Adam & Son
Ryan, Martin T.
Steinbrenner, August
Steinbrenner, Carl
NORTHPORT—Baldwin, John
Brush, Geo. W.
Burt, Henry W.
Conklin, Clarence A.
Ruland, D. S. B.
NORTH TONAWANDA—Bredlan Bros.
Gemlo, Jno.
Hildebrandt, Fred.
Hofert, Wm. F., Jr.
Ideal Sectional Building Co. (The)
Jacobs, Calvin
King Construction Co.
Morris & Allen (Inc.)
Ostwold, Wm.
NYACK—McElroy, Charles
Magee, John
Post, John H., 19 Bridge
Rooney, John M.
OGDENSBURG—Brown, H. N.
Castle, C. E. (Mason)
Feely, John (Mason)
Pooler & Castle
West, John
Whalen, Thos. & Son
OLEAN—Anderson, S. H.
Button, S. E.
Corsett, L. E.
Dean & Havens
Donahue, Ed.
Gillingham & Son
Nichols, G. A.
Ritzauer, G. C.
Rudolph, L. C.
Sheldon, J. A.
Taylor, B. U. (Large)
Weagraff, F. C.
Wetherill, James & Son
Worden, Chas. H.
ONEONTA—Briggs, N. H. & Son
McFee & Borst
Packer, J. W.
OSSINING—Carpenter, Daniel
Cuatt, Wm.
Furnaro, James
Gerow, Wright A.
Haff, John W.
Murray, A. B.
Powers, Wm. O., Belleview av, W. H.
Smith, Gilbert
Smith, John
Valentine, Eli, 1 Terrace av
OSWEGO—Barnett Cont. Co., 119 Water
Paine, A. & Sons, 142 W 2d
OWEGO—Ford, Lucius
OZONE PARK—(See New York City, Borough of Queens)
PATCHOGUE—Conklin, J. H.
Gerety, John L.
Petty, Ernest E.
Van Slingerlandt, G. W.
Vrooman, Clarence H.
PATTERSON—Mead, Alex.
Newcomb, L. A.
PEEKSKILL—Barker, Asbury
Birdsall & Thomas
Durum, Patrick A.
Gaudnier & Wildman
Golden, W. H.
Ham, Chas. E.
Hill, Eugene B.
Hopkins, Requa & Hopkins
Lindenan, Paul
Miller, James
Renza, A. S.
Smith, Eugene T.
Thompson & Baxter Cons. Co.
Washburn Bros.

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PENN YAN—Flahive, James
Kelly, C. M. & Co.
Waddell, Geo. W. & Son
Wheeler, W. E.
Willoughby, T.
Willoughby, W. H.
PLATTSBURG—Boissy & Brow
Buckley Cons. Co., 21 Clinton
McQuillan, Arthur
Shutts, Stephen A.
PORT CHESTER—Alves, Conrad
Gleason, George
Hamilton, Wm. (Mason)
Kennedy, L. J. & Sons (Masons)
Mertz, W. J. Mason)
Mertz's, Geo., Sons (Inc.)
Nethercott, John J. (Mason)
Smith & Lynt
Stamboni, Michael (Mason)
Strickland & Francis
Studwell, Thos.
Weir, James (Mason)
Williams, C. H.
PORT JEFFERSON—Lawrence Bros.
PORT JERVIS—Goble, Floyd S.
Post, G. A.
Raymond, F. B.
PORT RICHMOND—(See New York City, Borough of Richmond)
PORT WASHINGTON—Carpenter, Eugene E.
Cocks, Chas. D.
Henderson, Edwin
Hulls, Wm. H.
POUGHKEEPSIE—Becker, Peter
Carter, Fred. N.
Central Hudson Cons. Co., 33 Market
Davis & Shover
Freer, Irving & Ackert
Greene, Oliver A.
Higgins, Peter J.
Hillery, James P.
Keating, Jos. S.
Madsen, Fred., 1 Grove
Manning, Marcus W.
Martin, Jas. E.
Mitchell, Chas.
Montford, W. J.
O'Donnell, John
Rust, Wm. H. & Son, 363 Mill
Titus, Willet, 59 Catherine
Van Aken, Geo. J.
PRINCE BAY—(See New York City, Borough of Richmond)
QUEENS—(See New York City, Borough of Queens)
RENSSELAER—Dahm, Geo. B. & Son
Finkle, C. J. & Son
Hart, Geo.
Sitser, Fred. P., 1114 3d av
Zepp Bros., 2 4th av
RICHMOND—(See New York City, Borough of Richmond)
RIVERHEAD—Hempstead, Chas. H.
Lane Bros.
ROCHESTER—Albright, Edmund L., 1006 Insurance bldg
Belt, Fred. E.
Bennett, Milo
Binsack, Frank
Brotsch, Frank V. Co.
Brotsch, F. A. & Son, 12 Triangle bldg
Burling, Jos. W.
Calnan, John, 521 Plymouth av
Christiaansen Bros.
Clark, Geo. W.
Congdon, Richard
Cowles, Horace N.
Crouch, Jas. H., 202 Jones
De Jonge Bros., 395 Joseph av
Delano, F. B.
Dick, Wm.
Doyle & Smith
Enders, ..P Rustic n Clifford
Erion Bldg. Co.
Ets, Norris, 5 Orleans
Ferge, George F., 22 Henrietta
Field, Wm. H., 54 Breck
Fisher, Henry C., 58 Finch
Ford, R. T. Co., 200 South av
Frederick, A. & Sons Co. (Large)
Garrison, G. B. (Large)
Gleason, Fred'k A., 31 Appleton
Goldstein, Abraham
Gorsline & Swan Const. Co.
Greece Cons. Co., 718 Chamber of Commerce
Hack, Adolph, 7 Englert
Hammill, J. P., 5 Bauer
Harris, J. D.
Hasenauer, Chas.
Henley, Geo. S., 77 Grand av
Hetzler Chas. & Son, 330 Smith
Hoffman, C. J. & Sons
Hoffman, G. F.
Honeck, Hy.
Horn, Chas. L.
Huber, Philip, 1063 N Goodman
Ingran, Geo. P., 53 Berkeley
Isler, Herman, 430 Joseph av
Justice, John H., 695 St. Paul
Kamm, Casper, 423 Joseph av
Karweick, John & Son, 48 Rauber
Keith, Clifton A.
Kelly, Thos. J.
Kenny, Wm., 86 Frost av
Kingston, Geo. G., 97 Bronson av
Kircher, Geo., 444 Alphonse
Knapp, Homer
Kramer, Karl P.
Kusse, A. J. & Son
La Force, Martin, 69 Remington
Lauer, Edward C., 406 Powers bldg
Lauer, Harvey M., 785 Portland av
Lays, Edward J., 35 S Water
Levin, William, 10 Rhine
Link, A., 654 South av
Luther, John & Sons Co., 162 North
McKibbon, Daniel S.
Mass, Wm. F.
Mahaney, M. 263 Flint
Matthews, Wm. L., 407 Jefferson av
Matzig, Joseph, 292 Averill av
Marson, Wm. H.
Meyer, Anthony, 896 Clinton av
Moll, Frank J.
Morgan, Geo.
Oberlie's, Henry Sons, 704 Clinton av S
Oliver, H. T., 328 South av
Osborne, Jas. P., 68 Spring
Pappert, Aug. & Sons, 707 Clinton av S
Perkins, W. A., 308 Plymouth av
Peters, Wm., Dewey av
Pike, John B., 13 Minerva pl
Potter, L. H., 145 Champlain
Rapp, Fred. H. & Co.
Rice, Henry
Rice, Henry, 85 S Union
Ripton & Murphy
Robinson, Elmer E., 21 Montrose
Ruebsam, Blasins, 326 Joseph av
Salter, Thomas, 118 Frost av
Saucke, Wm., 82 Saranac
Sauer, F. J., 31 S Water
Sauer, Henry G., 42 Gregory
Schieven, Geo., 497 Joseph av
Seitz, F. C., 207 Hudson av
Selbert, Geo.
Siebert, Florin F.
Smith, Chas., 4 Rainier
Stewart, J. L.
Stoecklein, Martin, 53 Herman
Strauchen, Edward, 309 Portland av
Strogen, Chas. P., 17 Columbia av
Summerhays, Wm. & Sons, 9 Exchange
Thiem, Herman C. & Co., 963 St. Paul
Trangott, F. G., 207 Wilham
Verwey Bros.
Wagner, J. G.
Walch, Robert, 51 Taylor
Wegman, George, 720 N Clinton av
Yates, Chas. H., 56 Davis
Yauch & Pfluger, 53 Lincoln
Zielinski, Stephen, 543 Hudson av
ROME—Carey Cons. Co.
Gerwig, J. W.
ROSEBANK—(See New York City, Borough of Richmond)
ROSSVILLE—(See New York City, Borough of Richmond)
SANDY HILL—Cushing, M. E.
Gibson Bros.
SARANAC LAKE—Branch & Cahaman (Large)
Eicholtz, H. F. Cons. Co. (Not Inc.)
SARATOGA SPRINGS—Adee, Wm. L.
Case, W. J. & Son, 45 Philadelphia
Crocker, Harry, 63 Putnam
Dunn, Thos.
Fitzgerald, J. P.
Ledlie, David B.
Palmer, C. E.
Robertson, Wm. S., Putnam
SAUGERTIES—Howard, L. B.
McNally, Geo. W.
SAYVILLE—Bason, Wm. & Son
Hulse, Chas. H.
Nunns, Robt.
Strong, Nelson
SCHENECTADY—Avery & Simons
Bennett, Dubois (Mason)
Brougham, Geo. B. M.
Brown & Lowe
Caw, Wm. G.
Chubb, H. W.
Conway, J. M.
Davis, A. G.
Dickhoff, Samuel
Eggleston, G. W.
Ferguson, John
Fink Bros.
Gridley, C. M.
Griesmer, Andrew F.
Hall, Fred. C.
Hanigan, Edw.
Hanrahan Bros. (Masons)
Hewitt, E. C.
Jeffers, Allen
Jeffers, Lewis E.
Kinum, Andrew
Lewis & Burroughs
McDermott, John (Mason)
Maloney, James
Porter, E. R.
Reynolds, W. A.
Sager, Van D.
Service, B. G.
Simpson, W. H. Co. (Not Inc.)
Swolensky, A.
Taylor, F. K.
Wellman, Walter (Mason)
Winston, Geo. C. & Son
SENECA FALLS—Fleming, F. W.
Stahl, Peter A.
SPRINGLAND—(See New York City, Borough of Queens)
STAPLETON—(See New York City, Borough of Richmond)
SYRACUSE—Burns, Wm. J. Co.
Carr, William, 113 E Castle
Dickison, Guy B., 213 Kirk bldg
Gee, John W. & Son
Gorman Bros.
Heffernan, T. & Son
Hodge, I. A. & Co. (Inc.)
McCarthy, Wm. H.
O'Brien & Hoolihan (Large)
O'Connor Bros.
Ruston & Lewis
Sherlock, John J.
Spicer & Elliott
Tuck Woodworking & Building Co.
TARRYTOWN—Blouin, Alfred
Blouin, Joseph
Brewer, Jas. P.
De Rever, Irving
Duell, Jas.
Minnerly Constantine & Son
Page, David
Van Tassel, Milton
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TONAWANDA—Brown, Chas.
Chase, Geo. E.
Rogers, E. H., Jr.
Smith, Peter
Winters, Carl C.
TOTTENVILLE—(See New York City, Borough of Richmond)
TROY—Bergemann, Andrew
Boland, Chas. P. Co.
Breton, Fred. F.
Bulmer, James S.
Calhoun, David H.
Campaigne, Thos.
Campbell, Wm.
Cary, Geo. W.
Cary, Robt. T., 1704 Highland av
Casey Bros.
Collins, Chas.
Collins, Thos.
Cordwell, Thos.
Corliss Cons. Co.
Crutchey, Jos. W.
Curtis, Geo. A.
Cushing, Garrett
Daly, Patrick
Darrow & Gallagher
Dollard, James Co. (Large), 200 9th
Duncan, Charles (Large), Hill
Edwards, John N.
Ellis, Jno. E., State Bank bldg
Gontier, Edw., 42 Church
Haynes, Catherine L.
Hudson Valley Const. Co.
Jackson, M. G. & Son
Joyner Bros. & Co.
Kearns, P. J.
Koerner, Wm. G.
Kroneck, John H.
Lasher, Guy W.
Mack, Nathan
Martin, Wm. E. (Large), Front nr Grand
Milligan, G. & F.
Miorin, Anthony, 107 Church
Morrissey, James H., 371 2d
Murray, Martin
Neal Bros. Construction Co., head of Douw
Phillips, Frank M.
Powers & Mansfield Co.
Richardson, Mervin
Roth, Wm.
Skov, John
Soutare & Ritchie, 42 Bridge av
Spence, Geo., Jr., 53 Church
Stone, John A.
Wench, Jas. A.
UTICA—Antes, John 229 Dudley av
Balch, Orville
Byrnes, Thos. F. (Mason)
Doll, M. & Son
Gassner, A. & Son, 48 Shaw

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Griffiths & Pierce, 72 Charlotte (Masons)
Lancaster, Harry (Mason)
Lloyd, Richard G., 39 South
Kerner, P. & Son, 2 Canal (Masons)
McDermott, Thos. C.
Richards, Richard & Son, 42 Elizabeth
Shippy, Geo. W. (Mason)
Thomas & Hughes, 70 Charlotte
Ulrich, John
Yoemans, D. A., 63 South

WALDEN—Crawford, Jas. L.
Kidd, Willard
Wooley & Sinsabough

WARSAW—Burlingame, Chas. A.
Christ, Otto
Crocker, Dell G.
Williams, Herbert

WATERFORD—Eveline, Jas. B.
Griffin, John J.
O'Connor, B.
Sherman, Ephraim

WATERTOWN—Case & Folsom, 12 River
Charlebois Bros. (Also Mfrs.), 85 Factory
Semper, W. J.

WATERVLIET—Carr, Matthew J., 5th c 6th av
Nolan & Lennon
Preston, Richard W. & Son
Sheehan, Thos. F.
Smith, John T.
Young, Jas. T., 19th nr R. R.

WATKINS—Coughlin, John
White, George R.

WAVERLY—Baldwin, H. J. & Son (Large)
Higgins, J. J.

WEST BRIGHTON—(See New York City, Borough of Richmond)

WEST NEW BRIGHTON—(See New York City, Borough of Richmond)

WHITEHALL—Edmunds, W. J.

WHITE PLAINS—Bedford, Edward (Mason)
Briante, Rocco (Mason)
Brown, Chas. F.
Holden, Patrick
Houle, Geo. A.
Locke, Wm.
McCarty, Thos. F.
Miller, Geo. L.
O'Rourke, John & Sons (Masons)
Preston Chas. E.
Smith's, Stephen W. Son
Sonberg, August
Thompson & Alexander
Tucker, Frank
Vermett, J. T.
Waite, Emmet E.
Wesley, W. H.

WHITESTONE—(See New York City, Borough of Queens)

WOODBURG—(See New York City, Borough of Queens)

WOODHAVEN—(See New York City, Borough of Queens)

WOODMERE—Schiffmacher, Chas.

WOODSIDE—(See New York City, Borough of Queens)

YONKERS—Arnold, C. F. & Son, 58 N B'way
Bark, Henry & Co. (Masons)
Brewer, W. B., 24 Poplar
Bruce & Walk (Masons)
Cahill, Daniel, Central & Yonkers av
Chadburn & Edwards, 109 Linden
Craven & Westervelt (Masons)
Currie, Walter W.
D'Ambrasio, Virgilio (Mason)
Dawson, Alexander A., 29 John
Earl, Wm. J.
Ferguson, Robert, 45 Victor
Flagg Bros., 57 Armstrong av
Flannery, P. J., 90 Vark (Mason)
Forsyth, Jno., 80 Livingston av
Gower, Fielding, St. Andrews sta.
Hall, Henry, 555 Van Cortlandt Park av
Hooper & Robbins (Masons)
Hoyt & Miles, 183 Linden
Kingsley & Maxwell, Riverdale
Leonhardt, Matheas L.
Lutkins, Andrew R., 165 Highland av
Mackay, K., 64 Main
Mallison & Phillips, 17 John
Mangini, Nicholas, 177 Waverly
Marotta, Vincent (Mason), 112 New School
Mee, F. B., 3 Bashford
Myers, John M., 134 Beech
Pyne, Thos., 71 Fairview
Rundle, Geo.
Scott, Oliver John, 40 John
Sherwood, J. F., 31 Cedar pl
Smith, Geo. A., 62 Cornell av
Soeteman Bros., 4 River
Stewart, Alfred K., 330 Hawthorne av
Suterland, Edward A. (Mason)
Sutherland, Spencer K., Lewis parkway
Thomas, Stuart W.
Walsh, Michael, 117 Palisade av
Wood, Eber S., 40 Park Hill av
Woodhouse, H., 9 Halcyon pl

## NORTH CAROLINA.

ASHEVILLE—Blue Ridge Construction Co.
Chunie, Chas. E.
Cowan, J. W.
Frost & Co.
Joyner, J. E.
McDowell & Spears
Merchant, L. L.
Tenant, J. A.

BURLINGTON—Christian, L. C.

CHARLOTTE—Asbury, S. J.
Blythe & Isenhour
Cochrane, W. E.
Foard, J. D.
Gardner, J. D.
Grandy & Sons
Hunter, R. N. Co.
Jones, J. A.
Thompson, T. C. & Bros. (Also Birmingham, Ala.)

CONCORD—Probst, A. H.

DURHAM—Houston, R. B.
Lawrence I. G.
O'Briant, P. P.
Salmon & Salmon
Smith, H. L.
Stanley, J. B.
Underwood, N.
Wilkerson, O. F. & R. E.

ELIZABETH CITY—Elizabeth City Cons. Co. (Not Inc.)
Hayman, L. L.
Martin, J. W.
Pearson, H. C.

GOLDSBORO—Angle, G. F.
Fussell, T. J.
Porter & Goodwin
Waddell, L. J.

GREENSBORO—Central Carolina Cont. Co.
Hoecker, Chas. W.
Holloday & Crouse
Hunt, J. T. & Co.
Morris, J. C.
Waynick, J. J.

HENDERSON—Bunn, Robert
Weaver, E. L.

HICKORY—Abee & Edward
Elliott, J. D.

HIGH POINT—Baker, D. H.
Hall, Dennis H.
Montgomery, W. I.

LEXINGTON—Harbin, W. Lee

NEWBERN—Blalock & Hancock
Hartsfield, J. L.
Rhodes & Underwood

RALEIGH—Barrow, W. B.
Ford Bros.
Hill, D. C.
Moser, M. A.
Moser & Adams

SALISBURY—Martin, Geo. B.
Propst, C. R.

WILMINGTON—Brady, R. H.
Rogers & Thomas
Schwab, Jos.
Spooner, J. W.

WILSON—Killette, E. F.
Wilkins Bros.

WINSTON SALEM—Bowman, E. C. Co.
Fogle Bros. (Large)
Holt, J. H.
Lohman, Chas.
Miller Bros. Co. (Large)

## NORTH DAKOTA.

BISMARK—Lovin, Nils H.
Rhud, Hans C.

FARGO—Allen, Henry E.
Anderson, Geo. A.
Bowers Bros.
Hogan, Andrew S.
Jensen, H. B.
Pearson, W. D.
Powers, Thos. F.
Wilson, Stewart

GRAND FORKS—Eikhoff, John
Green, Robert H. (Mason)
Hunter, K. C.
Melby & Standal
Northern Construction & Engineering Co.
Sturtevant, J. M. & Son

JAMESTOWN—Norton, W. A.

VALLEY CITY—Curran, W. J.
Lenhard, Edw.
MacDonald, Duncan

WAHPETON—Blanchard, Jno.
Northwestern Construction Co.

## OHIO.

ADA—Anspach, D. M.
Rowles, Isaac E.
Sousley Bros.

AKRON—Carmichael, Geo. W. & Co. (Large)
Hamilton bldg.
Crisp, Geo. & Son, 215 S. B'way
Crisp, John & Sons, 173 Annadale
Dietz Lumber Co., Case av & River
Franklin, W. A., 327 Cuyahoga
Hamlin Bros., 56 Hamilton av
Henry, H. C., 282 Torrey
Hunsicker Bros., 52 Hurlburt av
Hunt & Wigley, 35 N. Maple
Star Planing Mill Co., 55 Cherry
Windsor Brick Co. (Large), 1011 Grant
Witwer, C. J., 45 Highland av
Wohlfeld, Frank, 156 W. Thornton

ALLIANCE—Applegate, M. & Son
Boone, Robert M.
Devine, J. C.
Joliet, S.
Miller, E. L.

ASHLAND—Thomas, Myers & Wolf

ASHTABULA—Warran, M. G. & Co.

ATHENS—Fenzel, Geo. L.
Kircher, C. P. & Co.
Nice, H. D.
Robbins, J. F.
Ward, Thos.

BARBERTON—Jackson Lumber Co.

BELLAIRE—Hallarbeck Contract Co.
Houston, A. L. (Brick & Stone)

BELLEFONTAINE—Coleman, H. F.
Defenbaugh, Wm.
Filson, A. R.
McLean, S. W.
Mitchell Contracting & Cons. Co. (The)
Parker Bros.
Shank, Chas. D.
Snyder, Mary E.
Sugrue, J. A.
Woodside, George M.

BLUFFTON—Althouse, Ewing & Co.

BRIDGEPORT—Loe, C. B. (Brick)

CAMBRIDGE—Bayless, H. J.
Forney, Chas. W. (Large)
Harris, J. M.
Hoyle & Scott (Large)
Jackson, James H.

CANAL DOVER—Negley & Baer
Hammond, Marion
Maurer, Chas. W.
Union Lumber Co.
Wagner Lumber Co.
Wenez, F. & Co.

CANAL FULTON—Biller, Dan

CANFIELD—Blim, G. & Son
Porter, A. S.

CANTON—Berdell, J. G.
Bostick, Cyrus S.
Bowen, C. E.
Braumbaugh, Samuel
De Vault, James & Co.
Goodman, W. W.
Hadley, John K.
Huff, K. E.
Jones, H. R.
Landor, E. J.
Naftzger, H. A.
Schneeder, W. H.
Shoof, Austin H.
Shoof, Wm. & Son
Van Kirk, J. L.
Whike, George H.
Zettler Building Co.

CARTHAGE—Hellming, August & Co.

CHICAGO—Andrews, S. P.
Williams, W. A.

CHILLICOTHE—Banks, Jacob
Gartner & Riehle
Gerber, Jos. & Son
Litter Bros. 5th c Ewing
McIntyre, Jerome
Pfaff & Smith
Talbott & Son

CINCINNATI—Allard, A. A., 560 Delta av
Atkinson, Robert K., 938 Linn
Ausdenmore, Henry (Stone), 916 York
Aufdembrinke & Son, 19 W Canal
Babel, W. F., 1217 Freeman av
Bagley & Heeg, 2207 Victor
Bankers Const. Co., First Nat'l Bank bldg
Barr, W. B., 805 B'way
Beckmann, F. W., 716 Laurel
Behrens, Henry & Co., 15 E Ogden pl
Belmont, Louis Bldg. Co., 2177 Gilbert av
Bentel Bros., 3250 Montana av
Bice, Edward, Roanoke Flats
Boekelman & Son, 1634 Freeman av
Bohne, Henry, 1655 Bruce av
Bohnen, Leonard & Sons, 3821 Tozzer
Boller, Louis, 1426 W Liberty
Bothe, Herman, 4211 Leeper
Brockmann, John H., 1608 Logan
Broeman, Frank, 3140 Goff av
Burke, John, 427 Lawrence
Casey, L. J., Builders' & Traders' Ex.
Clark, A. H., Builders' & Traders' Ex.
Colter, Archibald, Grand Opera House bldg
Concrete Steel Co. (Large), Mitchell bldg

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**Cotteral Bldg. Co., Second Nat'l Bank bldg**
**Cramer, W. T. V., 15-16 Wiggins blk**
**Dale, J. C., 610 Sycamore**
**Dauch, G., 2924 Vaughn**
**Drake, C. F., Vandalia av, E of Apple**
**Evans, Evan (Brick), 1226 Ida**
**Evans-Rendigs Co., 2017 Reading rd**
**Fairweather, G. M., 820 Locust**
**Farrell, Jas. A., 765 Kenyon av**
Farrell, Patrick (Large), 2d Nat'l B'k bldg
Feller, John G., 2429 Vine
Ferro-Concrete Construction Co. (Concrete Const., Large), Richmond & Harriott
Flynn, Wm. P., Chase av & Dane
Folz, Frank W. & Co. (Large), Dayton & Freeman
**Forshee, W. E. & Co., Builders' & Traders' Exchange**
**Fox, C. E., 2216 Reading rd**
**Fuerst, Cornel & Son (Brick), 2287 Vine**
**Gehred, N., 645 Neave**
**Gerke, John, 2338 Wilder av**
**Gest, G. M., 1122-24 Union Trust bldg**
**Gilfillen, Samuel, 4215 Turrill**
**Glassmeyer, Jos. St. Clair, 2719 Hackberry**
**Glassmeyer, Jos. J., 544 Hopkins**
**Glazer, W. A. & Co., 703 Reading rd**
**Goldkamp, Albert, 1706 Madison rd**
**Goldkamp, Louis, Builders' & Traders' Exchange**
Goodman, John, 2133 Florence av
Green, W. T. & Co., 413 Second
Griffith, Jas. & Sons Co. (Large), Burnet Woods Park
Harders & Joehnk (Brick), 434 W McMicken
Harig, Henry & Co. (Large), 31 E 4th av
Harvout Bros., 606-7 Mercantile Library
Heck, A. R., 1704 Queen City av bldg
**Heffron, Wm. Cons. Co. (The), 810 Neave**
**Heister, Peter, 231 Main bldg**
**Helmig, Wm. H., 2030 Eastern av**
Henkel, A. J., 703 Mercantile Library bldg
**Henkel, A. J. & Bro., Mercantile Lib'y bldg**
**Herman, Henry, 1673 Blue Rock**
**Hiener, Anthony, 2958 Colerain av**
**Hirschfield's, Theo. Sons, 1040 Straight**
**Hoke Bros. Bldg. Co., 13 Allen bldg**
**Iliff, Chas. E. & Bro. (Brick), 314 E 6th**
Holtzineer, H. E., Builders' & Traders' Ex.
**Hotchkiss, Elisha, 1220 Manns av**
**Hummel, David Building Co. (Large), 2629 Spring Grove av**
**Hunt, Geo. A., 954 E McMillan**
**Jewell, John A. & Son (Brick), 1612 Hopple**
Kaiser, A. & Son, Buiders' & Traders' Ex.
Keps, Brehm Co. (Large), Alms pl & Chapel
**Keystone Cons. Co., 1113 Traction bldg**
**Kiewit, John, 1115 Queen City av**
**Kirchner Construction Co., 8th & Plum**
**Langhorst, Fred., 1907 Western av**
**Leeds, W. C., 2915 Observatory av**
**Leimann, Wm. & Bro., 2303 Clifton av**
McDermott, Joseph, 2521 Essex pl
**McGarvey & Co., 32 Thomas bldg**
McLennan Bros., Pickering bldg
McMiller & Taft, 1308 Central av
**Maloney, Thos., 1858 Humboldt av**
**Marcus, M., Building Co., 1515 Plum**
**Mason, Geo. E. (Brick), 129 Builders' & Traders' Exchange**
Meier, Edw. 3555 Montgomery pike, Evanston
Meinken, Dietrich, 2118 Wetsern av
**Meyer, Anthony, 1376 Avon pl**
**Meyer, Wm., 2623 Linden**
Miles, Eugene, 3837 Edgewood av
Miller, Wm. & Son, 2020 Elm
Mills & Ott, 216 George
**Murr, Samuel, 526 Reading rd**
**Otte Building Co. (Not Inc.), 2010 Linn**
**Otte, Fred. 1924 Western av**
**Payne Bldg. Co., 631 W Court**
Peacock, Samuel D., 12 E Commerce
**Pickel, Peter, 301 Goodman**
**Plump, G. H. & Sons, 1415 Mansfield**
**Price, John, 1450 Eastern av**
**Quill, M. F., 528 Walnut**
**Rawlings, C. A., Builders' & Traders' Ex.**
**Reuwer, Fred. H., 1831 Sycamore av**
**Rhea, Al. P., 1830 Dana pl**
Roche & Brunner Building Co. (Large), Rolfes, John, 222 E 12th Johnston bldg
**Rosenstiel, Chas. & Son, 606 Reading rd**
**Ruebel, John & Bro., 4120 Vandalia av**
**Schardt, August, 2234 Victor**
**Schloss, A. & Son, 304 E 3d**
**Schmitt, J. B., 216 E 6th**
**Schmitz, J. J., Observatory av e of Herschel**
Schuberth, Wm., Jr., 239 Mill av
**Scully Cons. Co., Builders' & Traders' Exch.**
**Sheridan, Kirk Cons. Co., Mer. Lib. bldg**
**Specter, Samuel, Cresap av (23d ward)**
**Steinbicker Bros., 953 W Court**
**Strack, Thomas P., 31 Goodall bldg**
**Sulau, Geo., 4172 Chambers**
**Vondebrinke, Theo., 1701 Montrose av**
**Waldron, L. W., 220 Post sq**
Walton, Reuter & Co., Pickering bldg
Webb, Lincoln M., 703 Mt. Hope av
Weber, Adam, 4220 Spring Grove av
Weddig, A., 703 Mt. Hope av
Werdman, H., 1075 Grand av
White, Thos. C., 705 B'way
Wiley, F. B., New Richmond pike
Wiley, W. C. & Sons, 1211 Herschel av
Woodward, W. & F. H., 817 Elberon av

CIRCLEVILLE—Fosnaugh, Henry W.
Hoffman, Frank
**Reichelderfer Bros.**
Salter, W. K.

CLEVELAND—Alexander Bros., 323 Williamson bldg
American Cons. Co., Rockefeller bldg
Anders Const. Co., 413 Champlain
Austin, Samuel & Son Co., 4401 B'way, S E
Beers & Doolittle, 716 Society for Savings
Brightmore, Geo. J., 415 Champlain av, N W
Carey Construction Co. (Concrete Const.)
Cleveland Cons. Co., Citizens bldg
Connelly Cons. Co. (The J.), Schofield bldg
Dall, A. & Son, Lennox bldg S W
Dunbar, Wm. & Co., 511 Champlain av, N W
Enterprise Paving & Cons. Co., 202 American Trust bldg
Fath, C. H. & Son Const. Co., Electric bldg
Fath Construction Co., Electric bldg
**Gick & Fry, Builders' Exchange**
Gill, John & Sons (Large), Citizens bldg
**Griese, D. C., & Walker Co., 1417 Prospect, S E**
Harris, Wilson & Son, 1897 W 3d, S W
Hunkin Bros., Cons. Co., Cuyahoga bldg
**Kurz, W. A. & Co., 410 New England bldg**
**Landbu, P. O. & Co., 1818 W 30th (N. E.)**
Lease, Chas. W., 3704 Kelly
Lindhorst, F. & D., Superior bldg
McAllister, Wm. B. Co., 2165 E 31st, S E
McMillan, Geo. B., 313 Bangor bldg
Marquard Bldg. Co., 1818 W 30th (N. W.)
**Marthey, Frank C., 2181 E 82d (S. E.)**
Masters & Mullen Const. Co., Rose bldg
**Moore, John D., 301 Lennox bldg**
**Moore, Wm. Co., 1285 W Second (N. W.)**
National Co. (The), 505-6 Williamson bldg
**Nims, W. A. Co., 1226 Williamson bldg.**
Reaugh Cons. Co. (The), 516 Garfield bldg
Rutherford, Geo. A. Co., 2060 E 4th
Skeel Bros., 1656 Columbus rd, N W
Slatmyer, Henry G., 203 Lakeside av, N W
Standard Contracting Co., Wade bldg
Stevenson, F. D. Contracting Co. (Large) The Arcade
Strempel Const. Co., 2107 Clover (S. W.)
Strong, C. H. & Son, Cuyahoga bldg
Stroud, E. G. Co. (The), 1023 Rose bldg
Tuttle, I. D., Blackstone bldg
Vanderwerf Co., 1234 Chestnut, N E
Warren, Jay B., 600 Champlain, N W
Water Works Cons. Co. (The), 727 Citizens bldg
Webber, B. T. Co., 2350 Franklin av A
Williams Bros. & Morse Co. (The), Builders Exchange
Williams, Henry T. Co., Builders' Exchange
Wilson, John, Independence rd
Wittenberg, M. & Co., 6415 Woodland (S. E).
Woodford & Co., 2708 Franklin (N. W.)
Younger & Farmer, 2273 E 71st, S E

COLUMBUS—Abbott, N. B., 85 N High
Armentrout, Harry C., 451 E Rich
Barton, E. H., 51 W Frambes av
Beard & Jacques, 259 S Pearl
Beasley, L. F., 664 S Champion av
Beckett, E. E., 674 S Ohio av
Berry, Eli, 1987 Tatnick boul
Blair, Jos. F., 1718 Bryden rd
Bolin, B. F., 1367 Wesley av
Boyer, Adam, 2 High n of N B'way
Braun, John, 564 E Fulton
Broomhall, T. W., 1217 Hunter av
Brown, F. A., Jr., 216 Marshall av
Brush, J. D., 27 W Northwood av
Bues, Frank E., 107 N Washington av
Burkett, D. C., 509 Linwood av
Burns, M. J., 40 Board of Trade
Callahan, Thos. R., 434 E Long
Capell, Thos., 2586 Terrace av
Carruthers, W. J., 1232 Madison av
Cherry, Wm. W. E., 40 W Main
Cockell, Harvey, 200 W 10th av
Coleman, J. H., 57 W Park av
Collins, Walter, 199 N 21st
Coulter, J. B., 2198 N 4th
Cranston, Walter H., 81 W Frambes av
Cull, Patrick C., 247 N Garfield av
Culp, Hy. N., 1413 Oak
Denman, Chas. W., 860 Dennison av
Duvall, Leroy M., 1159 E Long
Eisele, Wm. & Co., 767 S 27th
Elevier, A. E., 175 S Scioto
Erfurt, Fred'k, 1067 City Park av
Ewers Bros., Vine & Armstrong
Ewers, Thos. G., Spring & Dennison av
Fletcher, C. H., 1439 Cole
Francis, Albert, 225 N 17th
Fravel, Sereno, 70 N 21st
Fuller, W. N., 546 Linwood av
Garrison, C., 1471 Michigan av
Good, Jacob, 562 E Main
Goss, Chas. O., 1048 W Broad
Gray, Stanley E., 1105 Fair av
Grube, F. A., 43 E Innis av
Hagerty, John D., 252 S 18th
Hall, E. M., 455 S Champion av
Harding, Michael, 762 Hamlet
Heckart, John W., 1111 Michigan av
Heiser, John, 710 Gilbert
Henton Bros., 68 E Russell
Hetrick, L. D. & Bro., 749 Wilson av
Hibbs, E. K., 735 Columbus Trust bldg
Hina, J. H., 711 Oakwood av
Horlocker, John W., 1601 Granville
Hummel, John, 846 S 5th
Isabel, J. B., 215 E 9th
Isabel, S. J., 137 W 10th av
Jaeger, Otto, 396 Parsons av
Jaquith, Louis W., 215 Hayden bldg
Jones, Isaac O., 707 Grove
Jones, Morgan, 546 E Long
Julian, V. S., 1085 Hunter av
Kanmacher, G. H., 7 Auburn av
Kientz, Jno., 788 S 5th
Kling, G. W., 46 16th av
Knight, Robert, 262 St. Clair av
Kuhn, Winfield S., 1248 Penna. av
Kuhnheim, John, 902 Mohawk
Kuntz, J. E., 171 N Monroe av
Lang, E. & C. (Stone), 551 S 5th
Latham Cons. Co. (The)
Lawler, Thos. C., 769 W Town
Lawson, Robt. (Stone), 1134 N High
Lawson, Wm. O., 14 W Frambes av
Lohrer, Jacob, 333 E Mount
Lucas, John H., 2438 W Broad
McAllister, Chas. A., 86 Miami av
McCarty, John, 1324 E Broad
McGrath, D. W., New 1st Nat. B'k bldg
McNichols, H. S. & Son, 525 Germania
McVey, Edward L., 1947 S 9th
Maxwell, Allen O., 257 E Germania
Merkle, Wm., 625 S 5th
Mitchell, J. M., 529 W 4th av
Mohing, J. T., 1394 Oak
Mueller, H. W., 662 S Briggs
Neely, S. G., 545 Hill av
Nunemaker, Jas. P., 48 Avondale av
Ohio Realty & Cons. Co., 1006 Capitol Trust bldg
Owston, Thos. F., 961 Highland
Pitts, Adam, 36 W Tompkins
Plemmer, Richard, 1188 Oak
Poppenhager, J. J., 156 Mithoff
Richter, Henry, 711 S Front
Roberts, D. W., 79 N 21st
Roberts, W. A., 321 Reeb av
Ruisinger, Jacob, 735 S 5th
Saum, Israel C., 197 N 18th
Sauter, Frank, 658 Lathrop
Schillinger Bros. Co., 40-41 Douglas bldg
Schirtzinger, Frank X., 705 New York av
Schlapp, P. A., 1183 S High
Schneider, C. W., 632 Linwood av
Seliger, J. N., 685 S 3d
Shaw, Harry J., 609 Outlook bldg
Sisco, Albert A., 180 N 21st
Skinner, W. D., 83 W Maynard
Smith, Bert F., 216 Lexington av
Snider, Jas. E., 603 E Mound
Spencer, David, 244 W 9th av
Stevens, B. F., 996 Bellows av
Stirgwaldt, John, 1953 Mt. Vernon av
Street, Milo P., c Clark & Windsor avs
Stropes, Jas. A., 369 Charles
Sturm, L. E., 310 (The), Wyandotte
Stutson, J. W., 642 E Main
Sullivan, B. F., 667 W Town
Sweeney, John W., 894 E Livingston av
Thompson, Wm. H. & Son, 56 N Skidmore
Tonkinson, Chas. W., 93 Dakota av
Trapp, Geo., 280 Germania
Tuggle, Chas. H., 89 Midland av
Walter, Bert, 361 Buttles av
Watson, Wm., 307 W 9th
Wells, Robert E., 766 Sullivant av
Westwater & Casey, 701 Wyandotte bldg
Winters & Farrington, 214 McCune bldg
Wise, O. P., 1170 Mt. Pleasant av
Wright, R. Clark, 80 N High
Wygant, Clarence, 604 E Mound

COSHOCTON—Boch, Geo. J. & Son
Burrell, T. H.
Kissner, J. N.-Sons Cons. Co. (The)
Norman, Thos. J.
Richards, Jacob
Shaw, John L.
Williams, S. M.

CUYAHOGA FALLS—Bates, A. R. & Co.
Falls Lumber Co. (Large)

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DAYTON—Boren, John W.
Colonial Const. Co. (The), 278 Arcade
Ditzel, Henry F., Bickham nr Linden av
Hall-Kepple Co., Davis
Hawker, David, 454 S Quitman
Hosket Bros. & Waltz, 25 E Union av
Hosket, Chas. F. (Brick), 662 E Richard
Kempert, A. F. (Brick), 245 S Morton av
Luyster, W. W., 915 U. B. bldg
Ovens, Chas. S., Davies bldg
Parish, E. K. (Mason), W Third
Rouzer, John Co. (Large), 71 S Wyandot
Talbott, H. E. & Co., Reibold bldg
Teigler Bros. (Masons), Patterson bldg
Wehner, Jos., 121 W Ziegler
Wysong, Jacob, 416 S Summit
DELAWARE—Cullen, L. H.
Dent, J. H.
Hessey, H. D.
Long, Wellington
McDonald, James
Riddle, Chas. W.
EAST LIVERPOOL—Cain, Jno. C.
Carroll, M. K.
Foraker, H. R.
Gamble-Surles & Co.
Hill & Wallace
McHenry, Harvey
Nease, C. & Co.
Phillips, Geo. J.
Rinehart Bros.
EAST PALESTINE—Hofmeister, J. C.
EATON—Donaldson, A. C. & Co.
FINDLEY—Duttweiler, F. W.
Folk Bros.
Horne, Geo. J.
FRANKLIN—Roof, Wm. S.
FREMONT—Wolfe, C. M.
GALLIPOLIS—Danner, J. E.
Duvall Bros.
Leonard, M. F.
Mullineaux Bros.
GREENFIELD—Hallam, Jas.
GREENVILLE—Beanblossom, Thos.
Clark, Chas.
Clark, S. J.
Fry, W. S.
Irwin Bros.
McKeon, C. S.
Medford, G. C.
Neiswonger, A.
HAMILTON—Bender Co. (Large)
Boaz Pattern Works
Davis, Frank J.
Eisel, C. F.
Graver Transfer & Cons. Co. (The)
Kinch, Frank
Lingler, Geo., 322 Hanover
Loutham, W. H. & Co.
Riegler, J. C.
Ross, John L. (Large), 218 Sycamore
HILLSBORO—Hern & Lepley
IRONTON—Akers, Thos. C.
Black, S. G.
Cook, H.
Dyer, E. B.
Francisco, H. M.
Francisco, J. H.
Fugitt, W. H.
Hall, F. Mack
Hall, T. B.
Ironton Cons. Co. (The)
Mulligan, M. A.
Schweickart, Wm. L.
Tri-State Improvement Co.
Wileman, Jas.
Wileman & Hebling
JACKSON—Bierley, Sherman
Brown, H. M.
Eisnaugle, Bros.
Hankle, Jno.
Long, Lewis:
KENTON—Burkart, Jno.
McArthur, D. R. & Co.
McGill & Lambert
Scott, John S.
LANCASTER—Brooks, Albert H.
Crook, J. Carl
Geiser, Jacob
Gray, Jos. H.
Henry, R. F.
Justus, C. F.
Kober, Wm. H.
Manger, M. F.
Mowery & Darbyshire
Older, Geo. W.
Schmelzer, Blase
Strachan, Wm.
LEBANON—Hopping, W. H.
Monroe & Johnston
LIMA—Blank, Edward
Buffenbarger, S. W.
Bullinger, J. G.
Clark, J. R.
Duden, W. H.
Fletcher, John
Heil, Valentine (Mason)
Kiplinger, C. L.
Ley & Slimers (Large)
Ohio Valley Construction Co. (Large)
Raudabaugh, J. R.
Ruhlen & Miller, 122 E Wayne
Sherfey, Chas.
Smith & Sherrick, W., 161 E Eureka
Walter, J. H.
LISBON—Forse, Geo.
LOCKLAND—Wilson, W. A.
LOGAN—Stephens, Chas. H.
LONDON—Carter & Foster
Illiff Bros.
MADISONVILLE—Boyd, J. W. & G. M.
Cornelle & Linder
Gomien & Settle
Grosse, C. Chas.
Haas, Alfred
Mathis, Daniel (Brick)
MANSFIELD—Berry, Chas. V. (Large)
Hancock, A. E. (Mason)
Heuss, Chas. (Mason)
Hursch, Jos.
Jones, Will M.
Lomax, Ralph (Mason)
Mowrey, Samuel
Schell & Baker (Large, Masons)
Small, Simon & Son (Large)
Wolff, Jacob
MARIETTA—Carter, Thos. (Brick)
Conner & Battersby
Cornell, Levi
Dickinson & Beardsley
Petrie, Frank (Brick)
Phillips, Lee (Brick)
Smith, Albert H. (Brick)
Zoller, Louis (Brick)
MARION—Apt, J. F.
Beringer, Jno. E.
Brady, A. G.
Brady & O'Connell
Carroll, Thos. J.
De Lander, L. H.
Drake & Son
Hoffstetter & Dawson
Hummer Cons. Co.
Kelly, P. & Co.
Kinsler, J. H.
Leffler & Bland (Large)
Molloy, D. F. & Bro.
Moon, E. S.
Murphy, Jos.
Orr, Geo. B.
Shaw, M. W. & Co.
Stafford, W. C.
Wooley, W. C.
MARYSVILLE—Fleck, E.
Kennedy & Millice
Sharer, D. & Son
Tracy, T. C.
Weidman, W. R.
Welch & Jones
Wood, Hylas
MASSILLON—Converse, Emil
Diefenbacher, Philip & Son
Vogt, W. H. & Sons
Wendling, A. F.
MIDDLEPORT—Beeson Bros.
Boice, Hollis
Talbott & Lindsay
Wise & Beach
MIDDLETOWN—Bauers, Henry
Caldwell & Iseminger (Large)
Denny, Chas. (Large)
Dome, Geo.
Dorne, Henry
Fresh, E. L. & Bro.
Gingerich, David
Gingerich & Lanier
Jacobs, Stephen R.
Kilgour, James R.
Mininger, Wm.
Smith, Wm. & Co.
NELSONVILLE—Hill, Jno.
Landis, B. F.
Vorhes, Chas.
Vorhes, W. H. (Brick & Stone)
NEWARK—Abbott, J. T.
Cramer, Melville
Cripps, S. E.
Davis, A.
Debard, Hugh
Fristoe, S. B. & Son
Hamelback, J. H.
Hawkins, O. J.
Jones, B. B.
Kinney, F. H.
Linn, Jas. C.
Palmer Bros.
Phillips, P. S.
Shauck, Edgar A. (Large)
Smith-Cramer Cons. Co. (Not Inc.)
Taylor, D. J.
Wagenheim, M. J.
Wells, W. C.
Whitehead, E. F.
NEW COMERSTOWN—Brodie, W. J.
NEW PHILADELPHIA—Dick, Chas.
Doughnerty, O. O.
Negley Lumber Co.
Rapp, Geo. D.
Springer, Leroy
Thompson, Wm. M.
Union Lumber Co.
NILES—Mango, V. & Co.
Niles Lumber Co.
NORWALK—Carpenter, W. G.
NORWOOD—Baker, J. M.
Eyre, Louis
Greiwe, E. R.
James, O. A.
Kleine, F. G.
O'Brien, J. T.
Rottman, Herman
Stagge, Henry
PIQUA—Anderson, Jno. H.
Gertner, John
Phillips, Fred. & Son
Richardson, O. W.
POMEROY—Bauer, George (Brick) & Stone)
Kautze, Abe J.
PORT CLINTON—Bertsch, Edward
PORTSMOUTH—Bradley, Wm.
Dawson, Richard L.
Donaldson, W. W.
Goodrich, B. F.
Gustin, D. W.
Hossman, Henry
Kaps Bros.
Kelly Bros.
Mann, Thos. O.
Mead, Isaac F.
Monroe, Samuel & Son
Nave-Ryan-Curtis Cons. Co.
Pfeiffer, E. W.
Pratt, Wm.
Smith, Joseph L.
RAVENNA—Frank, P. L.
ST. BERNARD—Espel, Jas. F. (Stone)
SALEM—Buell, Samuel
Jessup, Jas H.
Kille, E. I.
SANDUSKY—Feick, John A.
Walsh Bros. (Brick)
Waterfield, Thomas
Zorbach, L.
SIDNEY—Altenbach, Jas. & Son
Buckeye Churn Co. (Large)
Fisher, Geo. D. (Mason)
Harp, Wm. R. (Brick)
Loudenbach, H. L.
Love, Samuel H.
McCune, John G. (Brick)
Oldham, David
Orr, John (Brick)
SPRINGFIELD—Brennan, Thos. (Mason)
Campbell, John
Crist, W. L. (Mason)
Dixon, Henry
Graham, T. A.
Harris, G. H.
Hinckle, J. A. (Mason)
Jacoby, D. W.
Logan, G. H. (Mason)
Moore, J. H.
Morningstar, W. F.
Poole, William
Ports, J. S.
Poss, J. A.
Quinn, T. F. (Mason)
Reeder, John D.
Walker, Robert
Yeazell, Paul
Yost & Sullivan (Masons)
STEUBENVILLE—Capeto, Samuel
Coyne, Jas. A.
McDonald, A. W.
McFeeley Bros.
Martin, E. E.
Nicholson, Edw. (Large)
Yocum, C. M.
TIPPECANOE CITY—Tipp Building & Mfg. Co. (Large)
TOLEDO—Bentley, A. & Sons, 37 N Huron
Jackson, J. & Son
Kerlin Bros. Co. (The), 602 The Nashby
Maumee Wrecking Co. (The), 369 S Erie
Toledo Cons. & Supply Co., Nicholas bldg
TROY—Dilts, Milton T.
Pearson, Willis A.
Smith, M. Z.
Suber, F. A. & Sons
URBANA—Dickerson, Louis
Poffenberger, Ira
UHRICHSVILLE—Lickey, J. H.
Westlafer, Philip H.
WARREN—Bullus, Benj.
Coe, Thos. R.
Watson & Sutherland (Brick & Stone)
Wilkins, R. S.

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WASHINGTON C. H.—Barber, D. J.
Hammer, W. H.
Parker-Woods Co. (Large)
Williams, Jas. R.
Wilt Bros.
WELLSVILLE—Aughinbaugh, H. C.
Forbes, Jas. A.
Murdock, G. F.
WESTERVILLE—Karg, H.
WILMINGTON—Custer, Albert
Doyle, Jno.
McCullum, Frank
Shepard & Sons
Thompson, Jno. H.
Wakefield, J. J.
XENIA—Anderson, Horace
Berry, T. E.
Dice Bros.
Farrell, Jno.
Griesbaum, Jos.
Lyod Contracting Co. (Not Inc.)
McCurran Bros.
McCurren & Son
McGarry, Jno. C.
Owens, Thos. C.
Rader, E. C. (Brick)
Spahr, A. J.
Thornhill Bros.
YOUNGSTOWN—Beede, Theo. G.
Frolund, M. W., 2 Woodland av
Frush, Marcus L.
Heller Bros. Co., W End Raven av
Hersey, Geo. D.
Hess, Geo. D.
Hillman, A. D.
Hohlock, Fred.
Joyce, M. J.
Lightbody, Thomas M. (Large)
Loney, John
Merrian, W. F.
Miley, A. S.
Niedemeier & Restle
Palmer, W. H. Co.
Peat, W. R.
Sprague, P. E., 566 High
Thomas, J. O., 731 Thomas
Tibbits, B. C. Lumber Co.
Vogelberger Bros.
ZANESVILLE—Atkinson, C. L.
Clifton Bros.
Denny Bros.
Dunzweller Bros.
Evans, R. H. & Co., 622 Main
Frazier, Wm. S., 247 Ridge
Fritz Bros.
Handshy, W. C., 248 Ridge
Hoffman, S. W.
Humphrey, J. C.
Israel, F. L., 451 Moxahala
Linn, J. W., 32 Hall
Marple, O. H.
Mast, Emanuel E., Green av
Nesbit, J. H.
Price, J. D.
Townsend, F. M.
Townsend, T. B. Co.
Vinsel Co., Brighton boul
ZIMMERMAN—Lantz, Geo. W.

## OKLAHOMA

EL RENO—Buse, E. E.
Gilligan, John
Gilligan, T. G.
Ellsworth, J. E.
Hubbard, J. C.
Kilipke, A. C.
Leak, Mack
McDonald, V. H.
Newsome, Robert
Riley, W. H. & Co.
GUTHRIE—Brickner, J. T.
Kennedy & Cotton
KINGFISHER—Sockler, Chas. E.
MUSKOGEE—Municipal Contracting Co. (The)
OKLAHOMA CITY—Anderson, T. R. Cons. Co.
Duemcke, Albert
Powers, J. C.
POTEAU—Terry, J. S. Cons. Co.
SHAWNEE—Shawnee Cons. Co.
SPIRO—Holt, W. S.
TAHLEQUAH—Alston, Wm.
TALIHINA—Root, W. J.
WOODWARD—Faira, C. R.
Hansen, J. H.

## OREGON.

ALBANY—Hadley, I. F.
ARLETA—Berger, F. W.
ASHLAND—Payne, E. C.
ASTORIA—Birch & Jacobson
Edison, Jacob
Fastabend, J. A.
Ferguson & Houston (Large)
Frederickson Bros.
Goodwin, W. A.
Gustafson, E.
Hartwig, Ludwig
Lebeck, Leander
Mattison, John
Miller, William
Palmberg, C. C.
Wilson Bros.
BAKER CITY—Grant, Thos. E.
White, J. C.
BARLOW—Andrews, John A.
BONANZA—Pattee, Chas.
BOYD—Clark, Neal
CLATSKANIE—Hiatt, J. P. & Son
McKay, I.
DOLPH—Steinmassl, Joseph
EUGENE—Heckert, W. O.
Lombard, A.
McFarland, V.
GARFIELD—Davis, J. J.
Palmateer, J. H.
GLENADA—Colter, G. H.
GRASS VALLEY—Claxton, T. J.
HARRISBURG—Canter, M. W.
Scott & Stephens
HEPPNER—Hill, Wm.
Johnson, Henry
HOOD RIVER—Frederick & Arnold
Stranahan & Slaven
Wright, J. M.
JACKSONVILLE—Ficke, Fred. J.
JUNCTION CITY—Linder, H.
LA GRANDE—Haworth, S. R.
Krieger, George, Jr.
Slater, J. L.
LAIDLAW—Hall, Wm.
Updyke, G. W.
LAKEVIEW—Handley, James
LEXINGTON—Davis, W. G.
LOGAN—King, Foster H.
McMINNVILLE—Seiters, Jacob
MARSHFIELD—Holland, Wm. W.
McGann, F. G. & Sons
Marshfield Girdiron & Cons. Co.
MEDFORD—Gray, R. W.
Medford Brick Co.
MIDDLETON—True, C.
MILTON—Wormington, Frank
MILWAUKEE—Birkemier, F.
Kerr & Spindler
Snyder, J. M.
Totes, T.
NEWPORT—Flowers, A. F.
Flowers, J. W.
Sheffield, C. E.
OAK GROVE—Bentley, L. E.
OAKLAND—Miller, T. T.
ONTARIO—Draper, J. A.
PAISLEY—Woodward, J. C. & Son
PARKPLACE—Peckover, H.
PENDLETON—Boothby & Hale
Gibson & Cole
Harlow, E. E.
La Dow, Geo. I.
OREGON CITY—Baker, F. S.
White Bros.
PORTLAND—Beat, Robt. B., 453 Washington
Bingham, Jno. (Brick & Stone), 5th & Adler
Bingham & McClelland
Bridges, J. B.
Brooks & Downing
Camp, Herbert L.
Currier, R.
Donaldson, G. W.
Findley, Flex
Freeman, M. E.
Friberg Bros.
Gallagher, J. H. & Co.
Gangloff, Flynn & Co.
Gardner & McLennan
General Contracting Co.
Gensch, K. H.
Giebisch & Joplin, Labbe bldg
Giedhart & Tanbert
Gordon, G. W., 208 4th
Green, T. C.
Grieder, John
Griffis, J. H.
Griffith, Frank S.
Grimshaw, Henry W.
Hand, John F.
Hobkirk, Peter
Holmes, J. W. & Co.
Horn, I. D.
Howard, Harry A.
Hughes, N.
Hyland, James
Keenan Bros. Co.
Kilgreen, J. G., Chamber of Com. bldg.
Krimble, Jacob
Langford & Walker
Lewis & Lewis
Litherland, F. L.
Lynds, E. A.
Lystrup, Max
McInnis & Reed
McKenzie, A. M.
Madden, W. J.
Marshall, James I.
Melton, J. A., 204 4th
Merchant, J. M.
Millard, F. A. & Co.
Muir, Alex.
Multnomah Mill & Cons. Co.
Nash Bros.
Nelson & Riding
Neylon, Ed. M.
Northwest Investment & Cons. Co.
Oliver, G. W.
O'Neil, John R.
Palmer & Ellison
Peterson, A. F., 52 Lucretia
Phelps, S. E.
Pinckney Bros.
Preston, P. A., 334 Stark
Reder, E. W.
Richardson, J. J.
Riner, R. M.
Ryan, Edward
Ryckman, Peter A.
Seed, John S.
Shorno, L. C.
Simpson, Fred. M.
Sinclair & Sims
Smith, B. F.
Smith, Geo. D.
Smith, H. N.
Snyder, J. H. & Son
Standard Cons. Co., Sherlock bldg
Steele, W. B. Cons. Co.
Stewart & Winslow, 330 Couch
Stokes, Wm. R. & Co., 109 Grand
Sweeney, J. W.
Velguth & Pierce, 375 Holloday av
Wallace, J. M.
Williams, James O.
Wiser, Peter L. G.
SALEM—Dalrymple, W. H.
Erb, Ira
Headrick, A. L.
Hewitt, Joel
Jory, Oliver
Mourer, Geo. C.
Nelson, Jno.
Snook, Herman
Southwick, A. M.
Southwick, F. B.
Veatch, J. P.
Welch & Mourer
Young, J. W.
SEASIDE—Davis, T. A.
SPRINGFIELD—Chezen, John R.
Innis, J. B.
Walker, Herbert E.
THE DALLES—Fox, G. B.
Maxon, R. D.
Tyler, F. C. & Co.
TILLAMOOK—Brodhead, Sam. A.
Morris, W. A.
UNION—Nowell, T. G.
VERNONIA—Sessman, R.
WAMIC—Pratt, C. E.
WILSONVILLE—Boeckman, H. F.
Chalupsky, Jos.

## PENNSYLVANIA.

ALLEGHENY—(See Pittsburg)
ALLENTOWN—Adams, Albert H. (Brick)
Albright, A. A. & Son
Bast, DeForest (Mason)
Bauer, Magnus S. (Brick)
Bittner, Elmer J. J.
Brader & Fisher (Brick)
Butz, Solomon
Calder, Geo. H.
Chamberlain, Robt. J.
Daubenspeck, Chas. B.
Donecker, Orin C.
Follweiler, Oliver
Fichter, Wm. (Mason)
Fried & Son (Brick)
Fry & Meyers (Brick)
Gangemere, Wm. H. (Large)
Gery & Peters
Good Amos
Hardner, Geo. H. (Large)
Heimbach, Howard T.
Herzog, Adam A.
Huber, Edwin D. (Brick)
Koch, Wm. H. (Brick)
Lehr, Harry F.
Morris, Chas. H.
Nagle, Jacob A. (Large)
Ochs, Milton T. J. (Large)
Phillips & Biery
Rathbun, R. S. (Large)
Ritter, Jas. M.
Roth, Thos. N.
Schoudt, Chas. A.
Seip, Roth & Keck (Brick)

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Stein Bros.
Wieder, Levi A. (Brick)
ALTOONA—Altoona Construction Co. (Large)
Bartley, C. B. & Sons (Large)
Brancher, Elmer
Burket, A. M.
Counsman, D. & Son (Large)
Elder & Cassidy (Large)
Fickes, H. & Son
Finn, Peter W. (Large)
Fishell, J. T.
Fleck, J. S. (Large)
Fluke, J. B.
Gulick, Lorenzo D.
Herr, W. H. (Large)
Hersh, A. J.
Hess, Harvey A.
Hinkle, H. G. (Inc.)
Hoffman, S. R.
Ivory, J. C.
Latchford, P. A.
McAllister, Daniel W.
McFadden, J. W.
McGinley, John B.
Mackey, Leroy B.
Nichols, S. R.
Orner, Martin V.
Orr, J. C. & Son (Large)
Pennock, W. L.
Rhodes, Samuel
Ritchey & Isenberg
Rupp & Riggle
Seedenburg & Fouse
Wilkenson, B. P. & Co.
ARDMORE—Cotter, Lewis L.
Dyson, Joseph
Foster, Herbert F.
Haws, Samuel R. & Son
Henzy, Peter
McConaghy Bros.
ASHLAND—Christ & Falker
Dreshman Bros.
Leibig, Charles P.
Madgeburg, Wm. (Large)
Maurer, Jacob J.
Young, Chas. H.
ATHENS—Foley, M. P.
AVOCA—Widdall, H. S.
BAKERSTOWN—Glasgow, R. R.
BANGOR—Graffin, W. T.
Merrill, Erwin
Stiles, John
BEAVER—Anderson & Cook
Tallon, Farr & Co.
BEAVER FALLS—Creese, Samuel & Son, 1505 6th av
Haller, Jno.
Kirker, L. C. & Son, c 4th av & 9th
BEDFORD—Lessig Bros.
BERWICK—Dodson, B. H.
Everhart, A. C.
Fahringer, Frank
Krug, Wm.
Sitler, J. W.
Zeiser Bros.
BETHLEHEM—Heller, Geo. W.
Speck, Forrest F.
Stoudt, Howard E.
Suder, Harvey D.
BIRDSBORO—Focht, L. H.
Mauger, A. E.
Moore, R. & Son
BLAIRSVILLE—White, W. J.
BLOOMSBURG—Casey, Michael
Reimard, C. H.
BRADDOCK—Bartley, Wm. W. (Brick)
Braddock Union Planing Mill Co.
Campbell, R. M.
Copeland Cont. & Supply Co.
Dowler, Eli R.
Hassett & Renick
James, D. J.
Kramer & Ridge
Lewis, A. L.
Phillips & George
Sharah, P.
Tomlinson & Whitehouse
Wallace, A. L.
BRADFORD—Blair, J. D.
Boss Bros.
Gayton & McKinney
Hall, F. D. (Mason)
Hane, F. O.
Hanley, William
Hayes, James W.
Jacobson, N. T.
Kelly, D. J.
McKinney, Ferguson & Co.
Osgood, H. H.
Rizutte & Chido
Unruh, E. N. (Large)
BRAEBURN—Schantz, D. B.
BRIDGEPORT—Kerns, R.
BRISTOL—Crichton, Wm.
De Groot, John N.
Lawrence, Ernest
Peirce, E. M.
Wollard, Chas. S.
BROOKVILLE—Hall & Lucas
Truman & Heidrick
BUTLER—Hobaugh, J. S.
Hoffner, Adam
Schenck, George
Weigand, Edward & Son
CALIFORNIA—Powell, J. A. & Co.
CANNONSBURG—Hall, Robert T.
McNary, E. E.
CARBONDALE—Atkinson, Hugh
Edgett & Patterson (Large)
Gibbs, John (Brick)
Howell, F. J. & Co. (Inc.)
Nemire, R. P.
Nolan, Jno. J.
Robinson, N. B.
Wright, Albert L.
CARLISLE—Brindle, A. N.
Brown, Harry G.
Faber, Lewis, Jr. & Son
Lackey, H. A.
Porter, James
Shatto, Jos. W.
Tritt, Jos. A.
Yarnall, W. S.
CARNEGIE—Clark, H. & W.
Davis, Robt.
Dushane & Lewis (Large)
Gow, George
Harris, Morgan
Morton, E. Clark
CATASAUQUA—Emanuel & Co. (Inc.)
Goldsmith, Franklin & Son
CHAMBERSBURG—Cump, C. E.
Frederick, Chas.
Hafer, Frank
Keagy, Franklin
McCanns, Jno. W.
Minnich, D. B.
Minnich, Geo. & Son
Rhoads, Morris R.
Thomas, Abraham
CHESTER—Babe, James
Barnett, Benj. F.
Bell, Samuel R., Jr. (Large)
Bunyea, Martin B.
Bunyea & Dickerson
Hewes, Geo. D.
Hewes, Samuel A.
Holcroft, W. H. & Co.
Jaggers, Robert H.
Krotee, Harry J.
McCray, David H.
Morris, H. Lewis
Nolan Bros. (Large)
Oliver, Wilson
Phipps, Joseph H.
Plumley, Morris W.
Provost, William, Jr. (Large)
Reilly, Michael
Sheaff, A. P.
Taylor, J. Irvin (Large)
Ward, William
Wiegand, Geo.
Wiser, William J.
CLEARFIELD—Lukens, Wm. A.
Snoke, J. D. & Bro.
Thompson, Geo. I.
CLIFTON HEIGHTS—Manly, T. F.
Morgan, John
Shee, Frank
Winterbottom, Edward M.
COATESVILLE—Ash, Charles H.
Dean, Frank A.
Doan, J. Ellsworth
Dunleavy Bros.
Elliott, Wm.
Entriken, John M.
Miller, Samuel C.
Super & Moulder
Thompson, W. A. P.
COLUMBIA—Broome, John C. (Plasterer)
Forry, John D.
Lockard, D. K.
Paules, G. W.
CONNELLSVILLE—Connellsville Cons. Co.
Keystone Planing Mill Co.
Sisley, J. M. Co.
CONSOHOCKEN—Blanche, Lawrence N.
Cox, Christopher
De Haven & Jones
Hallowell, R. T. S.
Jones, A. H. & G. W.
Steele, Wm. & Sons Co., Spring Mill
CORAOPOLIS—Boyd, H. C.
Curry, W. C.
Knoff, H. A.
CORRY—Long, John
Mount, A. P.
Munger, A. F.
Sandburg, V. M.
Thomas Bros. (Masons)
DANVILLE—Reifsnyder, G. F. (Brock), 332
Trumbower & Werkheiser (Large) Church
DARBY—Baker, Edwin S.
Fink, Jos. P.
Gotshall, Adam J.
Roberts, John T.
Staley Bros.
DORRANCETON—Carle, Thos. D.
Marcy, Geo. L.
Moyer, Wm. H.
Ransom, Coray B.
Ransom, Geo. E. & Son
DOWNINGTON—Guthrie, G. Thompson
Johnson, G. Curtis
DOYLESTOWN—Cloud, Morris E.
Hager, William L.
Hohlefelder, Wm. J.
Nyce, David D.
Treffinger, Lewis
Wilson, J. Harrison
Worthington, F. L.
DUBOIS—Betts, Stiteler & Co.
Kline & Potts
Overdorf, W. H.
Sober & Hatten
DUNMORE—Gibbons, Martin
Greaves, Walter
Huff, Curtis
DUQUESNE—Kerr, C. W.
EASTON—Adam, Harry W.
Bouden, Jno. W.
Cameron, Jos. A.
Coleman, Levi J.
Donnelly, Jas. R.
Getter, Samuel
Heller, Thos. J. (Brick)
Hunt, Daniel (Brick)
Keim, Ruben (Large)
Keiper, Howard
Kunsman, Edwin O.
Lanterman, Wm. A.
Lerch, F. J. & Co. (Large)
Lutz, Geo. A.
Nickum, Harry W.
Raub, Jacob
Smith, Asa
Smith, Jos.
Smith & McCormack (Large)
Stein, Jas. H.
Steinmetz, Amandas (Large)
Wickkiser, J. L.
EAST STROUDSBURG—Hoffman, A. Y.
Hoffman, C. S.
EDWARDSDALE—Bryant, Joseph A. & Son
Jones, Herbert S.
ELLWOOD CITY—McCandless, J. A.
National Supply & Const. Co.
ERIE—Ackerman, Wm. & Son, Cadillac bldg
Baldwin, James, 710 State
Constable Bros. (Large). 5th & Sassafras
Dodsworth, R. P., 1040 W 12th
Held, Joseph, 2620 Cherry
Himberger, H. H., 629 Browns av
Kirschner Bros. (Large), 421 E 9th
Leach, James L.
Lynch, James A.
Mayerhoefer, Jacob, 555 E 7th
Middleton, Clark C.
Milloy, D. S., 939 W 9th
Randall & Roos, 103 E 12th
Schafer, Julius H., 124 E 5th
Schaper, Chas. H., 256 W 21st
Schrock, Adolph (Large), 906 E 11th
Shenk, Henry Co. (Large), Sassafras c 12th
Uht, Amandus, 434 E 9th
Walker, James D.
Weber, A. S., 554 E 9th
Williams, Jos. H., 837 E 6th
Wilson, I. N. & Son, 314 Sassafras
Zesinger, P. J., 26th & Browns av
EXPORT—Kunkle, E. E.
FAIRCHANCE—Darby, J. L.
FRANKLIN—Amsler & Shafer
Bigley, R. A.
Burford & Lundager
Burgard, J. R.
Burgard, Samuel
Craig, Leland
Eshelman, W. H.
Hunsberger & Ritchie
Long, H. W.
McKenzie, E. E.
Northwestern Construction Co.
Osborne, Edwin
Osborne, John
Theobold & Thomas
FREELAND—Boyle, J. W.
Griffith, Jas. E.
Lentz, Louis H.
Lentz, R. E.
GALETON—Grannot, Philip
GALLITZIN—Schultz, M.
GEIGERTOWN—Moyer, L. S.
Wells, Geo. E.
GETTYSBURG—Comfort, Chas. H.
Johns, Wm. H.

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GIBSONIA—Staley, W. L.
GIRARDVILLE—Maurer, Jacob J.
Scheele, Chas.
GREENSBURG—Bott, L. W.
Coulter & Furtwangler
Fulmer, R. B.
Stark, H. F.
GREENVILLE—Bortz, L. G. & Son
Heilman, G. H. & G. A.
GROVE CITY—Atwell, E. F.
Bohlender, F. W.
Maxwell, J. B.
HAMBURG—Raubenhold, A. J., S 4th
HANOVER—Coulson, J. W. & Bro.
Klunk, W. J.
Pressell, Jno. A.
Rohrbaugh, J. F. (Large)
Slagle, W. H.
HARRISBURG—Barnhart, G. F.
Bastress, J. N. & Co.
Berrier, Harry J.
Brady & Snavdy
Central Construction & Supply Co.
Coder & Miller
Fraun, H. S.
Harrisburg Construction Co. (Not Inc.)
Hocker, A. C.
Kamerer, Andrew N., 9th nr Market
Kinsley, D.
Kline, Samuel
Lebo, E. N., 1922 Berryhill
McKelvey, J. J., 1311 N Front
Markley, Wm. D.
Marks, D. B.
Mentzer S. F.
Miller, Chas. H., 824 N 7th
Morrow, Jos. W.
Myers, John
Ness, J. K., 220 Peffer
Seller, G. L.
Strapf & Benfer
Stucker Bros. Construction Co. (Inc.)
Wagner, W. H.
Weaver, V. M.
Weaver, W. O. & Son
Wildman, Aug.
HASTINGS—Keough, Orville
Lord, J. A.
Stuttmatter Bros.
HAZEN—Swanson Bros.
HAZLETON—Boyle, J. A.
Boyle, P. F.
Campbell, Hugh
Frederick, Samuel Y. (Large)
Gregory, Jno., Jr.
Guttshall, Jacob
Irvin, W. H.
Itter, Chas.
Jacoby, Jacob (Mason)
Kokensberger. F. H.
Kramer, Ludwig (Mason)
Leffler, John A. (Mason)
McDermott, Peter L.
Matuskowitz, Jos. & Sons
Myers, Martin P. (West)
Rausch, Benj.
Sell, Geo.
Stumpf & Youngcourt
Thomas, Wm. F.
Veale Bros.
Wetterau, Chas. & Co.
Woodring, Geo. E.
Ziegler, Wm. D. & Son
Zierdt, Wm. & Sons
HOLLIDAYSBURG—Condron, Jos. B. (Large)
Drass, Jno. B.
Hunter, M. S. & Sons (Large)
Meyers, A.
Schilling, Wm.
HOMESTEAD—Hall, George M. (Large)
Snyder, J. O.
HONESDALE—Brown, R. H.
Kreitner Bros.
HUNTINGDON—Edelblute, Jno.
Gutierrez, F.
Hall, J. C.
Isenberg, John L.
Kidd, W. S.
Kidd & Corbin
Oakman, Isaiah
O'Mara, W. J.
Peightal, Nevin
Wittaker. E. B.
INDIANA—Hastings, John S.
Lockard, E. M.
IRWIN—Bender, Jos.
JEANETTE—Fairchild, J. W.
JENKINTOWN—Carson, Samuel D.
Fitgerald, Thos.
Horan & Leswing
O'Neil, Jas. D.
JOHNSTOWN—Overdorff, E.
Rose, W. J. & Sons, 328 Lincoln
Scharman, Otto
Seigh, W. F.
Smith, W. H. & Bro., Hickory
Witt, A. S.
KINGSTON—Coon, A. H.
Shepherd, J. M.
Williams, R. A.
KITTANNING—Milson, Bert
LANCASTER—Auxer, Adam J., 528 E Chestnut
Bachman, J. M., 830 Columbia av
Bally, C. Wilmer
Bally, Samuel H., 514 S Shippen
Breneman, Jos. P.
Burger, Henry
Denlinger, Wm. T.
Eicholtz, Herbert E.
Evans, Clifton, 28 S Lime
Flick, G. Samuel, 606 E King
Gable, John S.
Heidig, John B.
Hergenrother, Geo.
Moore, Ambrose
Morrow, Robert M.
Oster, Geo., 136 N Mary
Rapp, D. H., 536 St. Joseph
Reith, John W.
Roschel & Klos
Shaff & Brubaker
Stumpf, Jacob & Son
Wiant, Herman L.
Wissler, Henry K.
Woerth, John K.
Wohlsen, Peter N., Jr.
Zook, B. D. & Son
Zook, Joseph S., 527 N Lime
Zook & Kendig
LANSDALE—Boorse, A. S. & Son
Conver, Wm. B.
Detwiler, Jno. B.
Fry, Abel
Godshalk, Chas. D.
Kauffie, Jno. J.
Scholl, Seth L. & Sons
LANSDOWNE—Burdsall, Wm. H.
Garrett, E. C. & Bro.
Ingram, Jas. K.
Moore, Chas. T.
Roberts, Richard R.
Shuster, Wm. C., Jr.
Taylor, James H.
Tyas & Banham
Wilson, J. S.
LANSFORD—Hall, Thos. J.
Riebe, Herman Co.
Smith, Thos. H.
LATROBE—Anderson, Geo. C. & Sons (Planing Mill)
Herman, Jno.
Kuhn, A. L.
Osborne, S. M.
LEBANON—Allwein, F. M.
Buffamoyer, David & Sons
Cilley, Harry F.
Dullenbawm, Geo. D.
Greiner, J. H.
Millard, J. B. & Son
Schwegler, Matthew
Seibert. David H.
Swope, Chas. D.
Weikel, Wm.
Wengert, Martin B.
Witmer, A. H.
LEECHBURG—Ehrenfeld, C. A.
Muffley & Stewart
Walferd, Michael
LEWISTOWN—Clinger, Wm. J.
Harris, Jno. V.
Mechley, Willard
Mitchell, F. W.
Montgomery, Harry B.
Shreffler, James L.
White, Wm. J.
LUZERNE—Moore, Walter L.
Pemberton, W. J.
LYKENS—Douden, F. A.
Rettinger & Son
Ritzel, John
McDONALD—Hunter, J. G.
McKEESPORT—Boyer, U. G.
Brieck Bros.
Carroll, H. C.
Hoey, Edw. D.
McCord, Wm.
Nowell, Wm.
Pitzer, H. B.
White, E. L.
McKEES ROCKS—Green, Samuel
MAHANOY CITY—Christ, H. K.
Cunningham, John J.
Degler, Frank L.
Donahue, John
Klitsch Bros.
Schoener, Wm. M.
MANHEIM—Fisher, Christ F.
Gingrich, N. W.
MARIETTA—Cassel, H. Burd
Reinhold, Jno. J.
MEADVILLE—Harris, G. M.
Morrison, Wm. E. & Son
Richards, Paul H.
Stolz, Alfred C.
Wimmer, Isaac, 477 Poplar
MECHANICSBURG—Baum, H. A.
Dougherty, W. H.
Pentz, Hy. H.
Susquehanna Cont. & Cons. Co.
Weaver, Calvin
MEDIA—Broadbelt, Wm. K.
Fisher, Geo. F.
Flounders, Albert L.
Flounders, Jas. B.
Hart, B. F. C.
Henderson, Robert M.
Hinkson, W.
Parlette, H. L.
Seal, Jos. C.
Thomas & Graul
Worrall, Winfield S.
MIDDLETOWN—Baumbach, Adam
Hoffman, H. C.
MIDWAY—Taylor, A. A.
MINERSVILLE—Dornbach, H. H.
Kueck, J. H. & Son
MONONGAHELA—Yohe Bros. (Large)
Yore, C. N. & Sons
MOUNT CARMEL—Geiger, Gibson & Co.
Keefer, George H.
Morse, Geo.
MOUNT PLEASANT—Swartz, E. B.
NANTICOKE—Fahringer, I. & Sons
Hamilton, Jno.
Jones, Thos. P. & Son
Kamowski, Joseph
May, Alfred W.
NAZARETH—Hahn, Frank P.
Messinger, Jacob H.
Roth, Henry W.
NEW BRIGHTON—Garmen, C. & Sons (Large)
McDaniel, R. B. & Co. (Large)
Martsolf Bros. (Large)
Twentieth Century Construction Co.
NEW CASTLE—Barnett Bros.
Breeder, W. H.
Chambers, W. H. (Brick)
Hoagland, A. A. (Brick)
Huey, Samuel
McCandless, J. N.
Patterson, W. C.
Strobecker, Geo. & Son
NEW HAVEN—Duggan, Jno.
Patterson, Cooper
NORRISTOWN—Cassel, J. Norman
Charles, Henry F.
Greger, Jacob B.
Groff, J. B.
Heavener, F. R.
Himes, Jno. S.
Houpt, Daniel E. (Mason)
Lawler, Michael F.
Matz, I. J.
Oberholtzer, Frank D.
Rehrer, Elmer
Templeton, D. F., Sr.
Wager, B. F.
White. Daniel H. (Brick)
NORTH EAST—Lyon, F. K.
Pendergast, T. R.
OIL CITY—Crouch, E. M.
Dickson & McMillen
Hallett, H. H.
Kealas, Frank
Kramer C. F.
Lesher, Joseph M.
Lewis, Jno. A.
Mundt, H. C.
Schubert, Wm. C. F.
Snyder, C. C.
Stanford, W. R.
Weaver, W. B.
Weikal, David
OXFORD—Brown, D. F. & J. T.
Jones, Geo. E.
Walker & Gibson
PEN ARGYL—Ede, Walter
Hoppock, E. B. (Brick & Stone)
PENN STATION—Myers, J. E. (Mason)
PHILADELPHIA—Alman, S. A., 635 Carpenter (Gtn.)
Albertson, Wm. H. K., 1319 Pearl
Allen, Jas. T. & Son, 212 S 10th
Allison, Frank W. & Co., 1710 Rittenhouse sq
Ambler-Davis Co., 14 S Broad
Anderson, John M., 1321 S 18th
Andrews, Chas. F., 8328 Germantown av
Appleton & Burrell, 1204 Chancelor
Armstrong & Latta, Land Title bldg
Ashby, Jos,, 7920 2d Street Park
Atkinson, John (Brick), Builders' Ex.
Axenroth, Chas. A., 330 N Lawrence
Bader, Daniel S., Betz bldg
Baldwin & Brown, 1019 Oakdale
Ballinger, R. C. & Co., 218 N 13th
Barnes, Wm. G., 2055 E Allegheny av
Barrett, G. McN., 5306 Magnolia av
Bateman, Jno. J., 845 Locust av, Gtn.
Baton, Henry E., 10th & Sansom

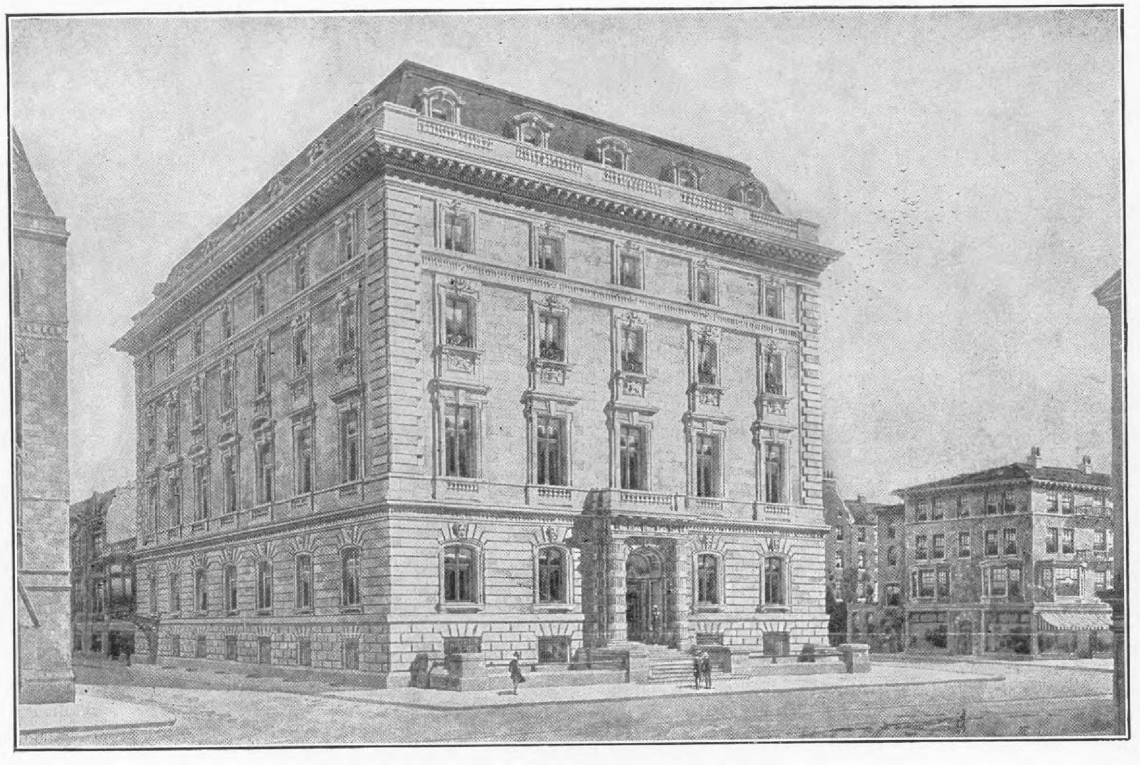
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G. M. MAICAS

# JAMES G. DOAK & CO.

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Bechtel, Joseph, 140 Fairmount
Beck, Ambrose, 136 N 13th
Bell, Chas. E., 225 S American
Benson, W. A., 1534 Ritner
Berger, Samuel & Co.
Bertrand, Paul, 1021 Lawrence
Bertrand, Wm. C., 1031 N Lawrence
Bertsch, Wm., 1314 N 16th
Biggard, Wm. S., 1431 Susquehanna av
Bilyeu, Geo. A., 3055 N 16th
Bird, Jos. & Co., 213 N 11th
Biscoe, W. E., 3950 Ludlow
Blatz, Francis J., 4923 N Lawrence
Boas, Francis J., 14 S Broad
Boorse, David O., 1625 Thompson
Bortwick & Pringle, 8018 Germantown av
Bottoms, Abel & Sons, 41 S 15th
Botwright, F. C., 1823 Bainbridge
Bowers & Logan, Heed bldg
Boyce, John H., 2004 Diamond
Boyd, Hugh & Son, 704 S 11th
Bradin, James A., 2036 Sansom
Bradley, Richard P., 221 Earp
Brady-Dackert Co., 2306 Washington
Bramble, Collin F., 2202 N Colorado
Branagan, James M., 537 Erie av
Brann & Stuart Co., Arcade bldg
Brenneman, J. E., 1523 S Front
Brinkworth, John H., 2149 E Dauphin
Brockelhurst, Harry, 512 W Norris
Broome, Fred'k, 4003 Sansom
Brown, T. Frank, Vernon bldg
Brown, Wm. R., 2145 E Firth
Brownlee, Alex. R., 367 E Chelten av (Gtn.)
Bubeck, Wm. D., Maple av nr Bustleton
Buckley, Wm. E., 2602 N Fairhill
Bull, Henry, 815 Spruce
Bunch, Samuel J., 406 N 41st
Bunner, Andrew J. & Son, 218 E Wister
Burnett, J. H., 347 N 4th (Gtn.)
Burrows, T. H., 5127 Kershaw av
Buhnell Bros., 1807 E Easton
Butler, Howard J., 1236 Olive
Button, S. M., 2228 N Orkney
Buvinger, A. G., 911 N 16th
Buzby, Howard A., 5153 Wakefield
Buzby, H. H., 6368 Germantown av
Buzby, Wm. P., 241 S Hutchinson
Cail, Alex., 48 Chestnut Hill av, C. H.
Carberry, Thos. J., 110 E Chelten av
Carr, Hiram A., 112 Queen, Gtn.
Carr & Hinkle, 5822 Germantown av
Castor, Frank G., 8204 Frankford av
Chambley, Alex., 243 S 10th
Chapman, Wm. R. & Sons (Masons), 15th & Wash'n av
Chase, Elias, Welch rd nr Ashton
Christensen, Adolph, 1433 Brown
Clark, H. K. (Brick), 741 N 20th
Clark, Richard B., 2036 Callowhill
Cluck, Harry, 170 E Walnut la, Gtn.
Codori, John A., 5117 Parrish
Coilfesh, Aug. J., 2516 N Dover
Columbia Contracting Co., 922 Arcade bldg
Comey, Dennis F., 2141 Mt. Vernon
Conneen, Andrew M., 1256 N 10th
Cornell, Jno. S. & Son (Large), 233 Land Title bldg
Costello, P. E., 3500 Disston (Tacony)
Courtnell, Joseph, 4738 Worth, Fkd.
Cramer, Sam, 2317 N 29th
Cramp & Co. (Large), Denckla bldg
Crawford, John, 5145 Locust
Cridland, Sylvester, 1633 N Camac
Crouse, Joseph, 2076 E Cumberland
Dagney, J. H. & T. W., N 7th c Oak la
Dahl, Henry C., 241 S 6th
Dallas, Thos., 422 Diamond
Daniels, Morris J., 252 S Juniper
Davis, F. B., 35 S 17th
Davis, James A., 116 Sumach, Wiss.
Dean, Henry, Shawmont nr Ridge, Rox.
Dear, John, 4544 Greene, Gtn.
Delmar, James J., 2425 E Allegheny av
Denny, Chas. W., 1330 Arch
Devlin, Patrick, 2443 E Sergeant
Dieterle, John G. (Stone), 104 W Penn, Gtn
Dillon, Martin P., Jr., 2527 Tulip
Doak, Albert (Brick), 2001 Front
**DOAK, JAMES G. & CO. (General** Building), 1420 Chestnut. (See adv. index.
Dodds, John A., 250 N 22d end of book)
Donovan, Jno. I., 139 N 12th
Dorsey & Smith, 111 N 7th
Douglass, Leslie, 146 Broad
Doyle, James & Sons, 878 N 46th
**DOYLE & CO. (Large), 1519 San-**som. (See adv. index, end of book)
Drake & Stratton Co., 503 Pennsylvania bldg
Draper, Thos. W., 328 N 5th
Drummond, Wm. J., 2343 S 16th
Dunbar, Daniel J., 1517 S 2d
Duncan, John, 920 Walnut
Dunlap, James F., 1510 Melon
Dutton, Wm. H. & Bro., 411 S 5th
Easterbrook, Wm., 519 Commerce
Eccles, Thos., 1728 Reed
Eckman, Chas. H., 2127 N 16th
Eddleman, Wm. H., 453 Green la, Rox.
Elvidge, Fred'k, 5614 Germantown av
Emery, Jno. W., 1524 Sansom
English, Frank G., 1608 N Carlisle
Erb, Wm. H., 4531 Springfield av
Erwin, Jos. J., 1618 N Carlisle
Evans, Burd P. & Co., 636 N 16th
Evans, James L., 1815 Clifton
Evans, D. Ridgway, 1918 Westmoreland
Ewing & Enderback, 1942 De Lancey
Eyre, Shoemaker Co., Arcade bldg
Faries, Jas. H., 712 S Marvine
Farrar, Joseph, 1529 Ellsworth
Fatz, Harry, 4913 N 5th
Fay, Edward & Son, 1521 Ranstead
Ferguson, Wm. E., 635 W Tioga
Ferguson, Wm. & Son, 405 S 21st
Ferry, Neil J., 504 S 21st
Finlay & Belfield, 130 N 12th
Fitzgerald, Jas. A., 1623 Snyder av
Fleming, Wm., 7151 Germantown av
Fonder, Edw. F., Land Title bldg
Ford, James, Holstein av, nr 89th
Fossell, Geo. C., 128 Chetten av, Gtn
Foster, Jas., 3200 Samson
Foulk, Wm., 7821 Germantown av
Fox, Wm. H., 2043 E Clementine
Fraim, A. P., 319 Market
Freiling, Wm., Orkney nr Huntingdon
Fretz, A. & Son, 1222 Chancellor
Fullerton & Bro. (Brick), 2154 E Norris
Funk, E. Y., 2240 E Woodstock
Gaertner, Jacob, 2214 N 3d
Gaertner, John F., 329 Girard av
Gaffney, P. J. & Co., 130 N 12th
Gardner, Geo. W., 511 N 40th
Getz, Jacob R., 1312 Filbert
Gibson, Harry, 3937 Haverford
Gill, Harry, Jr., 2200 Gtn av
Gill, Jno. N. & Co., 1215 Filbert
Given, J. L., 2714 Columbia av
Glenn, Geo. A. & Co. (Brick), 930 N 8th
Gohn, Andrew, 3824 Hamilton
Gold, Abraham, 257 S 6th
Goll, John & Co., 1539 Filbert
Goodwin, John H., 1325 E Haines, Gtn
Gordon, John H., 2314 E Lehigh av
Gottschaulk, John B., 2240 N Orkney
Graham, James, 473 York av
Graham, Thos., 1938 S Bancroft
Grant, J. Frank, 1625 N 13th
Grau, H. E. Co. (Large), 1707 Sansom
Gray, Geo., 4665 Paul, Fkd.
Greene, Jno. F. (Brick), 950 N Marshall
Griffith, Robt. B., 38 S 33d
Groman, R. B., 2224 N 6th
Grubb, Chas., Old York rd, nr Chelton av, (Bordentown)
Gruhler, Wm. J., 219 E High, Gtn
Guenzel, Herman C., 408 Buttonwood
Haibach, Phillip Cont. Co., 2530 Thompson
Haines, Wm. W., 1925 Master
Haldeman, Geo. D., 1417 N Marvine
Hand, Joseph A., 8029 Frankfort av
Hare, Chas. F., 1933 S 17th
Harris, Franklin M. & Co. (Brick), 1820 Wylie
Harshaw, Edward, 2303 Cathernel
Harting, Samuel, 6 E Johnson, Gtn
Havens, Fred. A. & Co. (Large), 845 N 19th
Havens, Herbert E. (Lewis), Franklin Bank
Hawn, Edward C., 1106 Sansom bldg
Haws, Geo. W. (Brick), 1802 Wylie
Hayes & Sons, 2935 Ellsworth
Hazlett, Hugh, 1701 N 20th
Headman, Enos R., 2541 Germantown av
Hefling, Fielding, 5110 Frankford
Heinicke, H. R. (Inc.), 840 Drexel bldg
Heist, Harry H., 1827 Tioga
Heist & Doeherty, 1216 N 11th
Helsengreen, Theo. H., 4049 Olive
Henderson, Wm. & Son, 327 S 20th
Hennebique Cons. Co., Witherspoon bldg
Herbert, Wm. H., 3620 Powelton av
Herring, F. G., 447 Queen, Gtn
Hess, Jacob P., 217 Sansom
Hill, Chas. L., 932 Moyamensing av
Hill, Frank R., Cheltenham av nr 7th, Oak la
Hinkle, J. H. & Co., Hutchinson c Venango
Hoctor, James F. (Brick), 4625 Lancaster av
Holmes, Joshua M., 158 Luray
Hoover, F. L., & Sons (Inc.), 305 Builders' Exchange
Howard's, Jas. W. Sons (Brick), 1714 Bain bridge
Howden's, Jno. Sons, 245 N 16th
Huber, Christopher, Old York rd nr 69th
Hudson, Henry H., 156 Queen, Gtn
Hudson, Wm. C., 637 Preston
Hunsberger, U. S., 731 Sansom
Hurley, P. J., 1216 Chancellor
Hyzer, Wm. C., 1230 Marlborough
Ingham, Wm. F., 2401 Oxford
Irwin, Henry M., 1613 Ranstead
Jackson, J. Richard, Perry bldg
Jacobs, Jerome, 622 Gaul
Jacoby, Wallace D., 105 De Lancey
Jarden, Chas. R., 6202 Morton, Gtn
Johnson, W. H., Jr., 816 Crozer bldg
Johnson, James, 1721 Ludlow
Johnston, James B., 1721 Ludlow
Kane, Thos., 3825 Fairmount av
Keas, Geo. & Son, 39 E Seymour, Gtn
Keas, Wm., 4624 Penn., Fkd
Keefer, Elisha H. & Son, 1308 Rodman
Keeney, Thoe, M., 116 N 16th
Kelley, John Jay, 2443 Oakdale
Kelley, John & Co., 512 Penn. bldg
Kelly, P. H., Lippincott bldg
Kerr, Wm., 2004 Naudain
Ketcham's, B. & Son, 1029 Brown
Kilpatrick, John T., 1933 Moravian
King & Hay, 1701 Gratz
Kinnier's, Jas. Sons, 111 E Chelten av, Gtn
Kister, Henry M., 129 S 7th
Klebe, John, 2228 N 11th
Klinke, Wm. J., 628 Sigel
Knoll, Geo. W., 2647 Amber
Koch, Henry, 408 Fairmont av
Kramer's, Jno. Sons, 1314 N Front
Krautter, Fred'k J., 2843 Kensington av
Kreitzburg, Ernest J., 1345 Arch
Krewson, Thos. C., 803 Master
Kuehne, Otto J., 2539 N Opal
Kuhn, Albert A., 4540 Mulberry (Frankford)
Kurtz, I. Ross., 8235 D (Fox Chase)
Lam Building Co., 624 Cherry
Lange, Frederick, 2208 N Woodstock
Latta & Terry Construction Co., Penn bldg
Lauer, Wm., 5007 Pentridge
Leger, Nathan J., 6535 Haverford
Lehrman, Nathan, 324 Christian
Lesley & Basehore, 846 N 16th
Levin, Joe., 1530 S 6th
Lingo, J. M., 6 N 20th
Linn, Amos W. & Sons, 4767 Garden
Lisowski, Marion L., 417 Heed bldg
Little, Thomas & Son, 1615 Sansom
Loflin, Jno. B., 3512 Filbert
Lovett, Henry L., 316 Callowhill
Lower, E. K., 217 Quarry
Luff, Samuel L., 700 N 19th
Lynch Bros., Lippincott bldg
McCarty & Whitman, 345 York av
McCaul, Charles Co., 10th c Sansom
McCauley's, J. Sons, 1321 E Eyre
McChesney & Biddle, 616 Race
McCleman, H. A. & Bro., 13th c Shunk
McClintock & Weaver, 24 W Phil Ellena, Gtn
McCloskey, Jas. F., 210 New
McCormick & Co., 14 S Broad
McDermott Cont. Co., 1116 Penna. bldg
McDevitt, P. J., 1918 Cherry
McDowell, John, 37 N 7th
McElwee, Geo., 1629 South
McFadden, John, 2039 Rittenhouse
McGlathery, Joseph J., 428 Walnut
McGlathery, Richard, 2306 N 26th
McGonigle, James, 1003 S St. Bernard
McGraw, Jas & Co. (Heavy Buildings, etc.), Arcade bldg
McIntyre, Hugh & Son, 1610 S 16th
McKenna, John, 2210 N 20th
McKibben, David, 2900 Frankford av
McLaughlin & McNamara, 4305 Germantown av
McLeister, John, 2123 Cypress
McNicol, Jas. P. & Bro., Betz bldg
McShain, John, 631 N 17th
McShane, Wm. J., 1517 S 13th
McVaugh, Thos. F., 7243 2d st pk
MacTavish & Hazzard, 1515 Pine
Maguire, Francis T., 1710 Sansom
Mahon, P. F., 3016 Chestnut
Marshall, Thomas, 413 Locust
Matlack, John C., 2356 E York
Matthews, Robt. W., 8032 Montague, Hbg
May, Fred'k & Son (Brick), 120 E Haines, (Gtn.)
McGraw, John, Land Title bldg
Melody & Keating (Large), 508 Bailey bldg
Mendenhall, Hayes & Son, Drexel bldg
Metzger & Wells, Heed bldg
Meyer, Wm. Co. (Ltd.), 206 Quarry
Middleton, John B., 1705 Ellsworth
Miller, Adam, 1322 Bristol
Miller, John F., 3913 N 6th
Miller, Warren T., 627 Filbert
Mills, Geo. H., 2140 N 9th
Mitchell Bros., 2125 Race
Mitchell, David A., 132 S Clifton
Mole, Jas. & Son, 1718 Cayuga
Mollenkof, Geo., Jr., 5430 Morris, Gtn
Monagan, Jas. H., 2009 Sansom
Monteith, Thos., 661 N 53d
Moore, Samuel E., 2217 Dickinson
Morgan, Wm. A., 2654 Tulip
Morgner, Ricard C., 2046 N 5th
Morris, John, 2213 Ridge av
Morrison, Matthew, 2540 N Front
Morrison, Samuel, 3639 N 5th
Morrow, Wm., 320 Harmony
Mowery, A. Frank & Son, 411 Walnut

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**Moyer, D. C.**, 2344 N Carlisle
**Mullen, Jas. A.**, 5512 Vine
**Munns, Henry C.**, 24 S 7th
**Murphins, G. Townsend**, 720 N 15th
**Murphy, M. P.**, 263 S 10th
**Murray, Chas. P.**, 2045 N 3d
**Myers, Jacob & Sons**, 608 Witherspoon bldg
**Myers, Jos. F. & Son**, 1237 Ridge
**Neff, Reuben W.**, 6609 Germantown av
**Nutz & Worthington**, 1308 Wallace
**O'Dea, Dennis W.**, 5219 N 5th
**O'Donnel, John**, 1161 S 13th
**Oler, Horace A.**, 1600 N Front
**O'Neill, Chas.**, 1216 S Broad
**Oberholtzer, M. S.**, 5528 Pulaski av, Gtn
**Orr, James W.**, Bustleton av, ab Dark Run la, Fkd
**Parker, S. D.**, 5921 Baynton, Gtn
**Parvin, Edward G.**, 2033 S Bancroft
**Pascoe, Christopher W.**, 1832 Christian
**Patterson, Wm. J.**, 46 W Southampton av,
**Paul, Jos. W.** (Brick), 2222 N 6th c Hill
**Paulson, Fred'k** (Brick), Island rd, c Dicks rd
**Payne, Geo. F. & Co.**, 401 S Juniper
**Payne, John L.**, 327 Walnut
**Pennock, J. E. & A. L.**, Land Title bldg
**Pepper, David Jr.**, Commonwealth bldg
**Pfau, Jos.**, 2255 N 5th
**Pilkington & Kendrick**, 244 S 40th
**Pinkerton, Cons. Co.**, 539 Land Title bldg
**Plank, W. W.**, 1117 S 47th
**Platt, Chas. J. W.**, 1015 Arch
**Ploucher, Wm. H.**, 5915 Walker, Wiss.
**Prentzel, A. H., Johnson & Sherman**
**Price, Jos.**, 2048 Rittenhouse
**Proud, Alfred K.**, 2237 N Woodstock
**Quinn, Joseph**, 1404 N Front
**Quinto, Bernard**, 524 Pine
**Raff, A. Raymond**, 1635 Thompson
**Raffetto, Louis**, 2464 N Garnet
**Raid, Joseph**, 3047 N 9th
**Rambler, David**, 2317 N 31st
**Rayner, Wm. F. Sons**, 4128 Pechin, Rox.
**Rea, H. U.**, 1731 N 19th
**Rea, J. Harvey**, 1026 Appletree
**Rea, Samuel J.**, 1608 Fairmount av
**Reber, C. M.**, 1018 Spring
**Rees, Chas. E.**, 2017 E Clearfield
**Rees, Wm. R.**, 2016 E Allegheny av
**Reeves, J. W. & C. H.**, 925 Darien
**Reeves, Stacy & Sons** (Large), 1611 Filbert
**Register, A. L. & Co.**, 712 Fidelity, Mutual
**Reilly, Thos.**, 1616 Thompson Life bldg
**Reilly & Riddle**, Walnut la & Oros
**Rheiner, Wm. J.**, 1345 Venango
**Ribble, Nicholas**, 1510 Cuthbert
**Richards & Shourds**, 1125 Spring
**Riley, James**, Forrest av nr E Johnson, Gtn
**Rinker, Frank H.**, 416 W Coulter
**Ritchie, Geo., Jr.**, 3724 Irving
**Ritchie, Joseph**, 2733 Oxford
**Roberts, W. S. & Co., 1673 Foulkrod (Fkfd)**
**Robinson, Russell**, 8954 Frankford av, Hbg
**Robinson, Wilfred**, 7319-21, Fox Chase
**Robson, Robt.**, 1827 Naudain
**Roebling, Cons. Co.**, 1416 Land Title bldg
**Rogers, Calvin W.**, 319 Heed bldg
**Roth, Geo. S. & Sons**, 230 E Graver's la,
**Rowland, Alonza**, 4332, Pechin, Rox
**Roydhouse, Arey & Co.**, Fidelity bldg
**Ruch, G. W. & Co.**, 2851 N Hutchinson
**Ruff, John G.**, 823 Cherry
**Rust, Harry R.**, 828 Filbert
**Schmid, Matthew**, 1308 N 6th
**Schmitt, Albert** (Brick), 2449 N Hancock
**Schock, Wilbert B.**, S Southampton av, C. H.
**Schoenberg, Joseph**, 2516 N Fairhill
**Schuler, Cloyde A.**, 3246 N 6th
**Schultz, Henry G. & Son**, 3340 N Carlisle
**Scurci, Frank & Son**, 902 S 9th
**Seeds, Thomas M., Jr.** (Large), 1207 Race
**Seka, Jos.**, 14 Highland av c Hill
**Sergeant, Jos. Co.**, 617 S 20th
**Shaffer, Morris W.**, 1742 N 11th
**Shanley, J. F. Co.** (The), 400 Arcade bldg
**Shepherd, Darius**, 1342 Girard av
**Shoemaker, H. B. & Co.**, 24 S 17th
**Shriner, R. F.**, 474 N 7th
**Simpson, Alex. P.**, 431 Winona av
**Simpson & Armstrong**, 314 Heed bldg
**Sipps, Geo. L.**, 907 Walnut
**Sladen, G. E. & Co.**, 1224 Clover
**Smith, Chas. & Son**, 4215 Haverford
**Smith, Hardican Co.**, 1606 Cherry
**Smith, James**, 1609 S 22d
**Smith, Peter E.**, 1923 Master
**Smith, Wm. B.**, 1329 N 21st
**Snyder, Geo. F. & Co.**, 129 S 5th
**Snyder, L. Sons**, 260 N Marvine
**Snyder, L. V.**, 205 Ionic
**Spare, Benj. F.**, 1601 Brandywine
**Spenard, A. H.**, 830 Wood
**Sperry, D. W.**, 1305 Arch
**Stafford, John**, 1112 Chestnut
**Steele, Wm. & Sons** (Large), 1600 Arch
**Stevens, Wm. F.**, Poquessing av bet. Bustleton av & Somerton
**Stewart Bros.**, 2526 N Orkney
**Stitzer, J. H.**, Commonwealth Trust bldg
**Stoll, Frank A.**, 1432 Germantown av
**Stone, Wm. E.**, 2069 E Dauphin
**Straw, R. J.**, 3742 Cuthbert
**Street, Tammany P.**, 903 Carlton
**Streeton, Harry A.**, 2131 S 7th
**Strickler, Chas.**, 2075 Margaret, Fkd
**Strode, R. W. & Sons**, 6 N 18th
**Stroup, Oliver P.**, 1733 N 10th
**Struse, Chos. O. & Sons**, 4012 Ridge av
**Sullivan, John**, 4916 Woodland av
**Sumption, Jas. D.**, 227 N 65th
**Suplee, Amos**, 1210 Federal
**Suplee, Edwin F.**, 3440 Filbert
**Sutton & Stephenson** (Masons), 1317 Wash'n
**Swain, S. L.**, 1326 S 33d av
**Taylor, Wm. H. H. & Son**, 119 S 4th
**Tecklenburg, Wm.**, 2008 N 5th
**Thayer, Geo. W. Co.**, 1232 Commerce
**Thompson, John B.**, 1627 Ludlow
**Thompson, Jos. N.**, 2044 Cuthbert
**Thompson, Samuel**, 214 Chancellor
**Thompson, Wm. N.**, 1529 Filbert
**Thompson-Starrett Co.** (General Building Construction), North American bldg
**Tomlinson, Jos. S.**, 1710 Venango
**Tourison, Ashton S. Co.**, 7014 Boyer (Gtn.)
**Townsend, Asher C.**, 331 Montrose
**Townsend, Jos.**, 1018 E Berks
**Trafford, Thos. C.** (Large), 2335 N 15th
**Trego, Samuel C.**, 5102 Pentridge
**Trexler, Daniel & Son**, 136 E Sharpnack
**Virden, B. F.**, 2841 Ridge av (Gtn.)
**Voigt, Herman, S E c 28th & Thompson**
**Walker, Benj.**, 3953 Germantown av
**Wallace, Frank E.**, 1210 Samson
**Walter, Chas., Jr.**, 5023 Larchwood av
**Walter Cons. Co.** (Not Inc.), 416 Heed bldg
**Walter, J. H.**, 168 E Walnut la, Gtn
**Warner, H. G.**, 717 N 42d
**Warner, Wm.**, 433 Green la, Rox
**Warren, Robt. T.**, 2134 S Colorado
**Weaver, Alvin M.**, 2010 Vine
**Weber, Philip**, 1326 N 4th
**Weightman, Atwood**, 1745 N 27th
**Wells, C. F. & Son**, 228 S 8th
**Wells, Mark P.**, Witherspoon bldg
**Welsh, John**, 138 N 7th
**Welsh, Matthew J.**, 7000 Woodland av
**Welsh, Thomas M.**, 774 S Broad
**Welstead, Ambrose**, 416 S 22d
**Wetherstine, Harry**, 226 Hansberry, Gtn
**Whelan, John M.**, Witherspoon bldg
**Whitehead, Alfred**, 1624 Latimer
**Whiteside, Rush J. & Sons**, 2115 Wallace
**Wiggins, Jno. R. & Co.**, 717 Heed bldg
**Wildey, Chas. R.**, 1133 Crease
**Wilkinson, Robt.**, 1705 Carlton
**Williams', Arthur H. Sons**, 419 Locust
**Wilmer, Samuel S.**, 3211 Comly, Wiss.
**Wilson, Alex. C.**, 2344 Tasker
**Wilson, Geo. H.**, 7206 Germantown av
**Wilson, John A.**, 1506 Thompson
**Wilson, John J.**, 3724 Filbert
**Wilson, J. Sims**, 1125 Brown
**Wintz, Frank I.**, 1618 N 27th
**Wolf, John**, 4110 Terrace, Myk
**Wright, Arthur J.**, 2041 Westmoreland
**Wulff, Theo. A.**, 301 Tabor av (Olney)
**Yundt, Charles J.**, 301 Tabor av, Olney

PHILLIPSBURG—Rhule, Geo. M.

PHOENIXVILLE—Carter, Harry
Elliott, Harvey V.
Harley & Young
Hawke, A. D.
Keenan, Jas.
Kneer, Wm.
Lowery, Irvin B.
Pennypacker, J. C. & Co.

PITCAIRN—Palmer, C. W. (Large)

PITTSBURG—Aitkenhead, Wm., 122 Irwin av (N. S.)
Alston, A. & Son, Penn & Grant avs (N. S.)
Beatty, W. D., 900 W Diamond (N. S.)
Blendinger, Fred. A. (Brick), 824 O'Hara (N. S.)
Bollinger Bros. (Breweries a Specialty)
Breitweiser, W. G., G & Oakmont av
Brick Construction Co. (Brick Work), 3212 Smallman
Broido & Baumgardner, 1848 Centre
Bruggeman, P. F. & Co., 502 Avery (N. S.)
Busse & Dettling, 112 Wabash
**City Contracting Co., Ferguson bldg**
Cochran & Davis, 104 Erie (N. S.)
Cochrane, G. A. & Co. (Large), 1210 Washington av (N. S.)
Corcoran, James G. Co., 4 Smithfield
Cuthbert Bros. Co., 604 Bessemer bldg
Dauenbauer, G. & Sons Co., 84 Arlington av
Dravo, Contracting Co., 814 Lewis bldg
Duff, Patents Co., 918 Frick bldg
Dumont, Joseph, 51 Boggs av
Duquesne Construction Co., Bessemer bldg
Eder Construction Co., Ferguson bldg
Fauble, P., 307 Arlington av (N. S.)
Fischer, F. L., 1148 S Negley av
Gillespie, T. A. Co., Westinghouse bldg
Golden & Crick, 3512 5th av
Greenwood Const. & Supply Co., 337 Water
Groah, Benj. A. & Co., Empire bldg
Gwinner, Fred'k, 1801 Market (N. S.)
Hall, Geo. M. Co., 135 Seventh
Hays & Dodds (Large), 2050 Chartiers
Howley, John F. & Co., 237 4th av (N. S.)
Howley, W. E., Frick bldg
**Huff, A. L.**, 6102 Penn av
Jones, Evan & Co., 3600 Liberty av
Kerr, C. H. Co., 2565 5th av
Kerr's, Wm. Sons, 605 Smithfield
Keown, Thos., 215 Park Way (N. S.)
Kissock, W. J., 2209 Bedford av
Kreusler, H. L., 3301 Penn av
Kund & Eiben, 204 Keiser
Lambie, C. S. & Co., Wabash bldg
Lamont Bros., 3109 Penn av
Lash, David H., 720 Grandview av
Ley Const. Co. (Large), 1220 Pak brldg
Lydon, Mark, 5409 Keystone
Lynd, W. J., 191 38th
McCain, S. H., 1300 Veto (N. S.)
McClure, Geo. W. Son & Co., Bessemer bldg
McGinnis Bros., Sheridan & Bryant
McQuade, James H., Besesmer bldg
McSpadden, J. C., 326 Fourth av
Martsolf Bros. (Brick), 4 Smithfield
Miller, Wm. & Sons Co. (Large)
Moorehouse, Geo. E., 82 Sylvania
Murdock, W. H., 721 Lewis bldg
Murphy Bros., 213 6th av
Murphy & Hamilton, Herren bldg
Naismith & Son (Brick), 6312 Butler
**Negley, H. D., 7134 Idlewild**
**Nicola Building Co., Warmers' Bank bldg**
Ott Bros. Co., 414 Washington av
**Payne, W. J. & Sons Co., Beltzhoover & Washington avs**
**Pitt Construction Co., 821 Fulton bldg**
**Poorbaugh, Jno. M. Co., Magee bldg**
**Resmer, Frank, Lorenze av & Crucible**
**Richmond, A. & Son** (Large), 541 Wood
Schlieper Eng. Co., 707 Wabash bldg
**Shenk, Henry Co.** (General), Lewis blk
**STEWART, JAS. & CO. (Large), Oliver bldg**
Sweeney, F. E., 7729 Susquehanna
**Sweeney, Thomas Co., 4906 Cypress**
Tannehill, R. C. & Son, 1315 Federal (N. S.)
Tannehill, John H. & Bro. (Large), 2022 Chartiers (N. S.)
Trimble, W. F. & Sons Co., 1719 Greenwood (N. S.)
**Ventress, Geo., 3417 Boquet**
Victor Const. Co., 1514 Franklin (N. S.)
Waite, Wm. & Son, 2504 Jane
Wherry, James & Co., 857 W North av
Wilson, A. & S. Co. (Large), 543 3d ave.
Wineland Cont. & Bldg. Co., 430 Fourth av
Wissner, Henry, 1715 Washington (N. S.)

PITTSTON—Allen, W. R.
Bostock, Fred. L.
Brandenburg, David L.
Brenton, Wm. C.
Dershimer & Griffin, 123 S Main
English, Robt. J.
Frey, Milo S.
Holmes, Alvin
Howell, F. J. & Co. (Inc.)
Jenkins, D. F. & T. W.
Johnson, John A.
Jones, T. E.
Myers, Wm.
O'Boyle & Fay
Reilly, J. J.
Snell, W. G. & Son, W P
Van Luven, J. H.
Wicks, John
Wilson, G. K.

PLYMOUTH—Cooper, J. D.
Hayward, Geo.
Marks, L. E.
Ransom, Chas. C. (Large)
Watkins, Chas.

PORT CARBON—Ruddy, John C. & Bro.
Runke, Chas. H.
Slattery, John T.

POTTSTOWN—Dampman, I. K.
Davidheiser, F. B.
Davidheiser & Wiand (Large)
Grubb, H. C.
Halteman, J. L.
Hertzog, W. D.
Hutt & Knod
Keiser, F. H.
Missimer, H. H.
Rush, John H.
Willauer & Son
Yocum, Newton K.

POTTSVILLE—Dietrich, Samuel
Fisher, Joseph

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Griesbaum, Wm. J. (Mason)
Heffner, Jas. E. (Mason)
Henne, W. & Co.
Houser, A. H.
Kilgus, Jacob
Knoll Bros.
Medlar, L. T., 7 N 9th
Messersmith. Clarence A.
Miller, Louis (Mason)
Simmons, Robt. A.
Wertley's, Walter Sons
Zimmerman, Jno. H.

PUNXSUTAWNEY—Long, J. K. & Son

QUAKERTOWN—Barringer, Jas. L.
Foulke, Jos. E.
Martin, Wm.
Mease, David W.
Riehn, Milton B.
Shuler, F. M.
Stonebach, Jas. B.
Stoneback, J. W.
Taylor, C. M.

READING—Beard, Geo. W. & Co. (Inc., Large), Colonial Trust bldg
Bennethum, James M.
Borry, Addison W.
Dampman, D. E., 529 Court
Davis, Samuel H.
Dechant, Wm. H.
Diener, Endy & Fisher
Fick, Howard J.
Fisher, Wm. E.
Focht, L. H. & Son (Large), 529 Court
Garman, N. H. & Bro.
George, Samuel (Mason)
Graeff, Isaac L. & Bro.
Hart, Chas. H.
Hartman, John S.
Heine, Jos. A., 1904 Perk av
Hemmig, Albert
Hemmig, Francis M.
Henne, Ephrian
Hunter, D. H., 820 N 11th
Huyett, Garson M.
Kline, Geo. W.
Kretz, A. H. (Large), 1201 Perk av
Kretz, Frances C.
Matz, Jas., 13th & Cotton
Mayer, Jacob
Meinholz, Geo. H.
Price, H., 810 Franklin
Price, R. A., 606 Washington
Ramer & George, 1209 Olney
Randenbush, Henry J.
Rehr & Fricker (Large), 124 Cedar
Rummel, F. L. (Large), 234 Moss
Schelb, Wm.
Sharp, W. A., 1036 N 10th
Shearer, D. R., 1422 N 10th
Sherman, G. H., 722 N Front
Ubil, J. G. & Son, 251 S 10th
Weidner, John E.
White & Wagner, 1207 Oley

RENOVO—Baird, Jas. H.

REYNOLDSVILLE—Evans, Thos. E.
Swab, H. A.

RIDGWAY—Edwards, Wm.
Hyde, Murphy & Co.
Miner, W. H.
Newburg, Carl A.
Newburg & Olson
Ross, P. C.

RIDLEY PARK—Meckert, J. W. & Co.

ROCHESTER—McDonald & Hartman (Brick & Stone)
Miller, Wm. & Sons Co. (Large)

ROYERSFORD—Adams, Lewis
Brunner, Samuel
Mowry, Jacob (Large)

ST. CLAIR—Havel, Jacob J.
Kear, H. J.
Lawless & Crone
Smith, Edward D.
Thorn, W. W.

ST. MARYS—Brehen, Andrew
Butsch, M. C.
Glass, Matthew
Jacobs, Jno. A.
Jacobs, Jos.
Schlumin, F. G.
Schlumin, Jos.
Valentine, Thos. J., Jr.
Villing, Frederick W.
Wegener, Peter

SAYRE—Johnson, F. H. (Large)
Rockwell. E. A.

SCENERY HILL—Keenan, D. F.

SCHUYLKILL HAVEN—Becker, Irwin H.
Henne, W.
Phillips, Daniel H.
Reed, Harry D.
Renninger, John H.

SCOTTSDALE—McCullough & Kelly

SCRANTON—Alworth, John W.
Apostolico, Alonzo
Baker, Wm. E.
Boland Bros., 1131 Pittston av
Boland, Christian T.
Bown, Quarries & Construction Co.
Cadden, Michael A., 1125 Luzerne
Capewell, Geo. N.
Caputo, Louis, 140 S. Main
Carlucci Stone Co. (Large)
Colvin, Fred'k C.
Dale & Gaynor
Dean & Price, 1440 Church av
Deubler, M. L. & Co.
De Witt, O. D.
Donahue, Michael A.
Dunn, Benj. F.
Elias, David P., 1310 Washburn
Engineering Construction Co.
Eshleman, O.
Flanaghan, John
Flanaghan, Stephen & Son
Giblin, John W.
Houck & Simons
Hower & Stender, Jeff av & Ash
Hughes, Edwin G. & Co., 230 S Main av
Hurlbutt, Henry R.
Kadz, Jos. A.
Keiper, Jacob
Kennedy & Maloney
Kingsley, Chas. R.
Langan, John F.
Latham, Ernest D.
Lathrop, Shea & Henwood Co. (Large).
Leitner, F. V. Board of Trade bldg.
Lord & Wateran, 948 Wyo. av
Marwick, J. & Co., 1427 Luzerne
May, Patrick F., 344 S. Wash'n av
Maynard, Chas. M.
Melvin, S. D.
Morris, John, 306 N. Rebca av
Moyer, F. M., 1101 Penn av
Mulherin & Judge, 1400 Remington
Mullarky, Anthony J. Co.
Nauman, J. D.
Oakley, W. D.
O'Malley, Wm. T.
Peck Lumber Mfg. Co. (Large), 111 E Market
Perks, John, Wyoming av & Gibson
Ricca, Frank
Richardson, Thos. W. & Co.
Roberts, Rob't.
Ruddy, M. J., 421 Lackawanna av
Spruks Bros., 220 Webster av
Stipp Const. Co., Board of Trade bldg
Stipp, L. T., 1716 Ridge row
Stipp, Peter (Brick & Stone), 327 N Wash'n
Stonier, Chas. R.
Stonier, Lindley J.
Sykes, F. E. & Co.
Sykes, S. & Sons, 1235 Penn av
Szynyter, W. H.
Tanner, Eugene
Washburn, Williams & Co. (Large), 131 Mer'dn
Wheeler, Irving H., 1330 Wash'n av
Wheeler & Haines Co., (Large), 920 Penn av
Williams, Ewin S., Coal Exch. bldg av
Williams, Wm. W.
Woelkers, Beilman & Zitzelman (Stone, etc., Large), Mears bldg
Woodling, B. S.
Woolsey, J. & Co., 312 Forrest ct

SEWICKLEY—Challis, Daniel W. & Son
Hill, R. M.
Shearer Bros. (Stone)

SHAMOKIN—Coates, T. J. & Bro.
Fry & Davis
Raup, H. P. & Sons (Large)

SARON—Baker & Taylor
Bell, A. W. (Stone)
Budd, B. F.
Cairey Bros.
Flower, Chas. S.
McCleery, Richard H. & Co.
McIntyre, Wm. & Son (Large)
Peters, A. R.
Sharon Bldg Co. (Ltd.)
Taylor Bros.
Wishart, A. & Sons Co. (Large)

SHARPSBURG—Charles & Emerich
Houggy, C. W.
Moyes, W. E.
Schran, J. H.
Yerkins, Geo.

SHARPSVILLE—Bombeck & Miller

SHENANDOAH—Britt, Wm. J.
Cleary, P. J.

SHIPPENSBURG—Pomeroy, John B.
Pomeroy, Wm.
Robinson, L. M.

SLATINGTON—Horn & Neff

SOUTH BETHLEHEM—Beysher, John (Large)
Birkel, Benedict H.
Danzer, Wm. F. & Co.
Groman Bros. (Brick & Stone, Large)
Pfeifle, Robert

SPRING CITY—Keiter, John
Spotts, Henry

STEELTON—Barley Bros.
Martin, W. F.
Smith, A. B.
Wright, E. B.
Wright, H. C.

STROUDSBURG—Miller, Gideon H.
Palmer & Dreher
Phillips, M. L.
Shifer Bros.

SUMMIT HILL—Breslin, Andrew
Stout, Chas. H.

SUNBURY—Keefer, G. W.
Keefer, J. S.
Keefer, Peter R.
Simpson, John & Son
Wolf & Eister

SUSQUEHANNA—Benson, L. C.

TAMAQUA—Becker, Hy.
Delzert, Christ
Mayer, Nathan
Rice, Jacob
Scheid, Jno.
Schilbe, J. A.
Schlegal, Jas. D.
Smith, Julius
Urich, Jos. B.
Williams, O. B.

TARENTUM—Gravatt, Jas. A.

TELFORD—Wolf, J. B. (Sashes, Doors & Blinds)

TITUSVILLE—Foster, David
Hesch, P. M. & Son
Johnstone, Robert
Nixon & Lamont

TOWANDA—Kisner, Chas.

TREVORTON—Schweitzer, Charles A.

TYRONE—Beam, John B.
Heinly, A.
Nevling, John A.
Reese, Chas. R.
Shirk, T. T. (Large)
Waring, Frank B.

UNION CITY—Clark, Eugene E.

UNIONTOWN—Burchinal & Frankberry
Carr, Jno. D.
Carroll Lumber Co. (Large)
Cornish Bros.
Eggers Lumber Co.
Humbert & Co.
Ingraham, W. B.
McCormack, W. C.
Steinbower, J. T.
Stark, H. F.
Uniontown Construction Co.

WARREN—Baker, Edwin F.
Beck & Ott
Dunham, O. E.
Hamm, Chas. E.
Holmberg, Solomon
Levery, W. R.
Pixley, A. L.
Shaw & Hand
Shutt, K. G.
Smith, W. A.
Swanson, J. A.
Swanson, Theo. F.
Uhdey, C. W.

WASHINGTON—Gasper, P. J.
Reitsch Bros. (Stone, etc.)
Vester, Stewart & Rossell (Large)
Walker & Slater (Large)

WAYNE—Lengle, John D.
McGuire, Frank T.
Morris, John (Mason)
Palmer, Chas. B.
Rossiter, Morris

WAYNESBORO—Dukehart, A. C.
Monn, Samuel
Rider, John F.
Strine, Geo. L.
Warner, A. R.

WAYNESBURG—Acklin, F. D.
Baker, Wm. (Bricklayer)
Biggins, Thos. (Stone)
Black, F. L. & Bro.
Blair, W. F. (Large)
Chambers, J. N. (Stone & Brick)
Clayton, Sam'l L. (Stone Mason)
Funk, Jonathan M.
McKay & McDonald (Stone Masons)
Manning, Walter (Stone Mason)
Meek & Co.
Milliken, Robt. L.
Waynesburg Eng. & Cons. Co.

WEST CHESTER—Baldwin, C. R.
Burns, Wm. H.
Corcoran, Cons. Co.
Darlington, Howard G.
Farra, Harry W.
Griffith, E. R. & W. H.
Hickman, Lewis M.
Jefferies, P. E.
Jones, William H.
Lewis, Thomas L.
Sullivan, Daniel S.
Townsend, Geo. F.

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WEST NEWTON—Neff, C. C. (Also Planing Mill)
Scholl, M. F. & Son
WILKES-BARRE—Allen, Willard F.
Amesbury, Wm. H.
Aston Bros.
Banks, John F.
Banks & Sickler
Behrens, Otto J.
Buckley, Dennis
Burlingame, A. J.
Campbell, A. D.
Coil, L. J., 59 Gildersleeve
Cooke Bros. & Co.
Clark, Peter J.
Davey & Washey, 110 E Market
Dickover, Geo. T., Simon Long bld.
Dobson, John B.
Eberly, C. C.
Eckenrode, Jerome W.
Eckert, George P. F., 434 Carey av
Eddy, Fred W.
Everman, Joseph, 519 S River
Eyerman, Edward
Fedar, Andrew V.
Gaynor, Joseph M. & Co.
Hahn, L. H., 103 N Meade
Hendler, Chas. & Co.
Hilderbrand, Adam M.
Hoover, Chas. D.
Houser, John B., 19 Barney
Hughes, Richard
James, John E.
Kehoe & Mowery, 720 S Franklin
Kingston, Cons. & Eng. Co.
Kline, Daniel M.
Kressley, James
Krieg, Frank C.
Krugg, Elwell M.
Lange, F. & Son
Leach, J. M., Jr.
Lipko, Joseph
Long, J. B.
Malloy, Michael C., 389 N Wash'n
Mandeville & Son, 121 S Fell
Melan, Henry J.
Mitchell Bros.
Morris & Nordstom
Peiffer, H. B.
Ross, Giles, 345 S River
Roth, M. L.
Schmitt, John A. (Brick & Stone, Large),
Schmidtt & Co. 202 E Market
Shepherd, Wm. H. & Sons (Large), 478
Shiber, Chas. C. S Main
Silyius, George D. (Large), 33 S Welles
Smith, Wilson J. (Large), 318 S Franklin
Smith & Moskovitz
Snawley, Wilson A., 167 Academy
Snyder, Harry
Thomas, John R,
Thomas & Kear
Walborn & Barney
Williams, Owen
Wilson, Chas. F. (Brick), 79 South
WILKINSBURG—Ecker, A. C., 1226 Franklin
Iron City Stone & Cons. Co.
Lee, B. F. Co.
Lindsay, W. A.
Long, J. Luther
Robinson & James
Peffer, E. Z.
Ward, J. H & Sons, 817 Penn av
WILLIAMSPORT—Bennett, Jas. V. & Co.
Harman Bros.
Hartman, John H. & Bros.
Huffman's, W. H. C. Sons
Larrivee, Samuel
Meek, Charles I.
Woodnutt, Charles E.
Zitch, M. R.
WRIGHTSVILLE—Smith, J. P.
Weller, R. H.
WYOMING—Durland, Robt. L.
Roselle Bros.
Safford, Robt. L.
Stiff & Mullin
Sutton, W. Byron
YORK—Blauser, Edward
Boyer, Calvin A.
Codorus Planing Mill Co. (Planing Mill)
Crist, Jacob H.
Epley, Horace C. (Mason)
Gilbert, Geo. W.
Glatfelter, Samuel F.
Hake, A. M. & Co.
Hake, Lewis F.
Hake, Samuel
Heindel, Sylvester
Hoff, Henry
Menough, James L.
Minnich & Hess
Oermann, Casper
Plonk, Joseph (Mason)
Seacrist's, Jacob Sons
Shartzer Bros.
Spahr Bros.
Stare, Eli & Bro.
Werner, Frank
Wolf, Howard N.
ZELIENOPLE—Garmen, N.
Rape, Geo. W.
Stauffer, E. H.

## RHODE ISLAND.

APPONAUG—Green, Jno. R.
BARRINGTON CENTER—Fisher, L. T.
Martin, Wm. R.
BLOCK ISLAND—Hayes, Jno.
BRISTOL—Ball, Sumner
Barbour, Chas. A.
Buffum, Jos. L.
Durant, Jos. O.
Le Clair, Eugene
Rounds, Chas. U.
West, Everett
CAROLINA—Gates, Herbert A.
CENTRAL FALLS—Morean, Louis
Simmons, Geo. A. Co.
CONIMICUT—Darr, Geo. E.
DIAMOND HILL—Haskell, A. F.
EAST GREENWICH—Holland, James
Person, A. J.
EAST PROVIDENCE—Brown, William T.
Champlin, John C.
Cummings, Hugh
Grant, H. L.
Healy, F. B.
McCormick, J.
McDonald, Allen
Millard, Frank F.
Miner, Joseph & Son
Perry, T. A.
Rhodes, W. H.
Straight, E. S.
Whitford, Stephen A.
Whitmarsh, Leander F.
HAMILTON—Straight, John
HARRISVILLE—Mathewson, F. L.
HOPE VALLEY—Barber, E. A.
Palmer, George L.
JAMESTOWN—Anthony, George D.
Anthony, Lewis W.
Head, Alton
Wright, Thomas D.
LIMEROCK—Murray, John B.
LONSDALE—Collinger, R. T.
MANVILLE—Fortier, C.
Guay, Omer
NARRAGANSETT PIER—Bristow, John
Burns, Robert
Congdon, Alphone
Kissouth, Alex. M.
NATICK—Remington, W. T.
NEWPORT—Armstrong, G. E.
Barlow, Wm. F.
Booth, Alexander
Borden, Wm. M.
Bosworth, P. S.
Brown, Jas.
Bryer, Walter B.
Bullock, Joseph H.
Burdick, Edmond, S.
Carter & Sherman
Clark, C. E.
Coffin, Wm. E.
Collon, John
Cotton, J. P.
Curry, Robert W.
Curtis, Sheldon H.
Darling & Slade
Dawley, William P.
Dillon, Nicholas
Dring, Walter
Fagan, P. J.
Fludder, A. J.
Friend & Maguire
Gillies, Jas. M.
Graham, James
Hodgson, Jno.
Kane, John F.
Keeher & Smith
Kerr & Beeson
Kirby, Michael J.
Kirwin Bros. (Large)
Langley, Wm. H.
Lucas, Thomas
McCormick, M. A.
McLean, Duncan
Maher, Anthony
Mason, John
Melville, Jno.
Morgan Bros.
Murphy, Michael F.
Nicol, Alexander
Patt, David A.
Peckham Bros. Co.
Peckham, Howard G., Middletown
Radford, Jno. (Large)
Reagan, Thos. H.
Stoddard, Geo. S.
Sullivan, Jno. F.
Tanner, B. F.
Weaver, Freeborn C.
White, Benjamin T.
Wright, John J.
PASCOAG—Buffum, Chas. C.
Gory, Fred A.
Harvard, Napoleon
Smith, Edward C.
PAWTUCKET—Casavant, Wilfred P.
Cole, Wheaton
Chartier, Francis
Cruise & Smiley Const. Co.
Dolan, J. Stephen
Le Peante, Alfred R.
Murphy, Louis A.
Reynolds, Vinton I.
Rowley, Frank G. Co.
Salisbury, Joseph F.
Smith, Benjamin F. Co.
Vigeant, Henry
Wilmarth, D. L.
Wilmarth & McKillop (Large)
PORTSMOUTH—Coggeshall, Jno. R.
Grinnell, R. J.
Manchester, Jno. E.
Sherman, George S.
PROVIDENCE—Adams, Harry C., 70 Linwood
Aiello, Antonio, 35 Grape av
Anderson, A. M. & Co., 56 Reservoir av
Andrews, Geo. L., 688 Public
Archibald, S. A., 28 Corinth
Baldwin, J. D., 67 Alverson av
Ball, A. R., 189 Grand av
Barney, O. C. & Son, 3 Custom House
Barry, David J., 64 E Manning
Bates, J. H., 24 Carey av
Beaty, Thos. F., 20 Stokes
Bebeau, J. J., Jr., & Co., 76 Hillwood
Beck, E. H. (Mason), 113 Pleasant
Beck, Vere W., 75 Westminster
Belford, A. F., 137 Waverly
Benson, Emil, 334 Willard av
Bigney, E. H., 891 Westminster
Bishop, Jno. W. Co. (Large), Butler Exch
Bouchard Bros., 172 Linwood av
Bowen, Vincent & Co., 107 Chapin av
Bradley, Edw. & Co., 20 Clifford
Briggs, Louis, 31 Plainfield
Budlong, Louis A., 27 Bowen
Budlong, Moses, 160 Benefit
Burlingame, Asa, 10 Schaffer
Calder, Chas. W., 125 Whittier av
Candelet, J. E. & Co., 10 Warrington
Chapin, A. W., 29 Page
Chapman, G. E. & Co., 148 Linwood av
Chapman, Wm. A. & Co., 49 Westminster
Charles, Andrew F., 4 Pearl
Charles, Peter F., 18 Plum
Chase, John A., 5 Baltimore
Clautier, Henry & Co.
Cole, A. L., 238 Ohio av
Crankshaw, Chas., 400 Plainfield
Crowe, Thos. A. & Co., 7 Ward
Cruickshank, Stewart C., 8 Steeple
Dinsmore, Samuel, 122 Brownell
Doane, Thos. H., 99 Chapin av
Douglas, Wm. & Co., 109 Waterman
Douglass, Daniel P., 254 Thayer
Duggan, John H. (Mason), 17 Meeting
Evans, H. R., & Son, 10 Mathewson
Fahey, Thos. J., 63 Terrace av
Famiglietti Bros. Co., 539 Charles
Foster, Chas. A., Chas. Field c Hope
French, Geo., & Co., 54 Friendship
Furlong, John W. & Co.
Gaboriault, H. A., 957 Westminster
Gammons, S. W., 238 Massachusetts av
Gilbane, William & Bro., 96 Harris av
Glover, David & Co., 358 Benefit
Guartiere, Sisto & Sons, 49 Dean
Halcrow, Wm. J., 88 Clifford
Hamlyn, W. H.
Harding, P. E.
Harris, John K., 223 Gano
Hartwell & Kingston, 49 Westminster
Helgerson, John, 251 Rhodes
Hogg, William J., 37 Meeting
Hopkins, Gilbert (Mason), 131 Garden
Humes, Cons. Co., 76 Dorrance
Jackvony, Antonio, 633 Charles
Jordan, C. B., 732 Plainfield
Lee, Oscar F. (Mason), 113 Messer
Lockwood, R. W., 107 River av
McDonough, Patrick, 22 Bancroft
McDuff, Geo. F., 504 N Main
McDuff, Robert A. & Co.
McGehearty, F'k A., 655 N Main
McGhee, Robt., 81 Friendship
McGregor, Jas., 12 Charles
McKindall, Frank D.
McLaren, John, 582 Smith
McLeod, John, 517 Hope
McNamara, Luke, 189 Amherst
McPherson, John G., 66 Woodbine
Manchester, Albert C. Large), 136 Dorrance
Mann, Martin, 21 Ralph
Matteson & Stone, 23 Central
May, John G., 97 E George

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Mitchell, Jno. C.
Mullin, John E., 35 Baker
Murray & Lamb
Nichols, Wm. L., 9 Camden av
Norcross Bros. Co., 16 Exchange
Norquist, P. Oscar, 8 Hamlin
Northrup, S. G., 62 N Main
Norton, John, 47 S Main
Parr & Watts Co., 55 Jewell
Pay, Alfred W., 16 Crawford
Peck, Jas. C. (Mason), 73 Westminster
Phillips, Lemuel O., 15 Camden av
Pierce, F. L., 75 Westminster
Pierce, Lewis J., Bldg Co., 17 Custom House
Raftery, Jno. T., 55 Candace
Redford, Benj., 111 Orange
Ross, Thos. B. & Son (General), 75 Westminster
Scott, Jno. A., 87 Orange
Smith, Thos. P., 1076 Westminster
Spencer, Geo. G., 53 Barrows
Stubbs, Thomas, 369 Washington
Sullivan, J. H., 665 Prairie av
Sullivan & O'Neil
Sundberg, Nils M., 350 Orms
Tallman, N. I., 240 Pearl
Turgeon, E., 16 Babcock
Waterman, W. E., 918 Plainfield
Watson, Wm. H. J., 120 Governor
Welch & McGreen, 229 N Main
Whalen, Jas. F., 30 Evergreen
Williams, William, 29 Weybosset

PRUDENCE—Le Clair, Eugene, Jr.
RIVER POINT—Vaughn, F. L. & Co.
RIVERSIDE—Beloin, O. C.
Jenks, Frank
Kirby, E. E.
RUMFORD—Belcher, D. W.
SHANNOCK—Card, E. S.
TIVERTON—Summer, J. M.
VALLEY FALLS—Morin, John B.
WAKEFIELD—Bell, L. F.
Brown, J. W.
Bullock, Geo. H.
Holland, C. H.
Oatley, Lincoln N.
Pollock, R. A.
Shumway & Potter
WARREN—Hall, William
Loughran, Thos. J.
Murphy, J. H.
Nichols, H. A.
Smith, Richard
Watson, E. K. Co.
WARWICK—Lockwood, J. A.
WASHINGTON—Shippee, H. M.
WESTERLY—Babcock & Wilcox
Baggs, Joseph E.
Barber, Wm. H.
Barber, W. W.
Coy & Watrous
Dunham, Charles
Kenyon, H. T. & Co.
Maxson & Co. (Large)
Sherman, Robert A. & Son
Talbot, D. T.
WICKFORD—Bullock, James H.
Straight & McKenzie
WOONSOCKET—Allaire, Victor
Archibald, Geo. W.
Bouvier, J. C. N.
Bradford, Jas. E.
Breault, Laurent & Son
Daigneault, Alfred
Fleurant, John F.
Gilman, Jos. & Co.
Kennedy, Andrew
Lamoreaux, Dosithee
Lavimodiere, Paul
McLaughlin, Michael
Menard, Louis, Jr.
Norton, W. F.
Simard, Adolphe E.
Warfield, Geo. P.

## SOUTH CAROLINA.

ABBEVILLE—Minshall, Fred
AIKEN—Laird, Jno.
ANDERSON—Brissy, W. L. (Lumber)
Guest, C. M.
Hembree, J. L.
Mukkey, W. M.
CHARLESTON — Bullwinkel, J. D., 23 Montague
Bullwinkel, J. D., 23 Montague
Grant, C. McK.
Kramer, B. F., 60 Meeting
McArtney Bldg Co.
McCarrell & Sloan
Oliver, Henry (Large), 2 Mott la
Schumacher, H. D. (Large), 614 King
Simons-Mayrant Co., 16 Broad
Treahy, M. J., 5 Horlbeck
Whitmer Cons. Co.
CHESTER—Carpenter, J. C.
Simvill, J. R.
COLUMBIA—Barret, S. J.
Cain, J. J.
Columbia Stone Co.
Lide, C. M.
Thomas, Hasel
CONWAY—Little, H. P.
DARLINGTON—Mooney, C. & Son
FLORENCE—Bounds, S.
GREENVILLE—Brown & McGee
Gallivan, J. F. Bldg Co.
Grandy, J. F. & Son
Grandy, L. S.
Jamison & Morris
Shumate, W. T. & Co.
GREENWOOD—Greenwood Granite & Cons. Co.
LANCASTER—Bowers Bros.
NEWBERRY—Leroy, O. W.
Livingston, W. T.
ORANGEBURG—Blackman, S. A.
Robinson, W. F.
SPARTANBURG—Hertzog, Ernest L.
Martin, J. B.
Willard, Charles R.
YORKVILLE—Keller, J. J. & Co.

## SOUTH DAKOTA.

ABERDEEN—Brandes, E. A.
Fossum, A. C.
Halsos, R. K.
Lepper, C.
McLaughlin, D. G.
Narregang, George
DEADWOOD—Mullen & Munn
HURON—Baker, L. D.
Jacobson, Otto
Phillips, Chas.
MADISON—Garner, A. J.
MITCHELL—Kiegs, A. J.
REDFIELD—Stolte & Miencier
SIOUX FALLS—Booth, F. M.
WATERTOWN—Brickell Cons. Co.
Gray Cons. Co.
Rowe Cons. & Heating Co.
Stover Cons. Co.
YANKTON—Burgi, Frederick
Goetz, August

## TENNESSEE.

BRISTOL—McCrary, Jas. F.
McCrary, Samuel
Scharf, C. R. & Co.
Smith & Wilson
CHATTANOOGA—Adams & Schneider (Large),
Allen & Curry 120 E 8th
Brandon & Davis
Dewey, J. J. & Son
Dunlap & Barley
Dutton, Jas. F.
Edwards & Frankhouse
Fisher & Brown, P. O. B., 246
Gibbs, L. C.
Hitzfeld, L. A., 14 E 7th
Noll Cons. Co.
Smith, Chas. E.
Troutt, John (Stone), 1090 Market
Weigel Wm. A.
CLEVELAND—Marshall, S. W.
COLUMBIA—Simpson, Thomas (Brick)
COVINGTON—Shelton, R. B.
DYERSBURG—Nichols, J. M. (Large)
FAYETTEVILLE—Brogan & Cummings
GALLATIN—Simpson & Sons
HUMBOLDT—Campbell, J. E.
McIlwain, Chas.
JACKSON—Fleenor, R. L.
Heavner, U. R. & Co.
Parish Bros.
KNOXVILLE—Brimer & England, 516 S Gay
Brimer & England, 516 S Gay
Callahan Cons. Co., Empire bldg
Cooley & Sons, 402 Chamberlin
Galyon, L. A., 205 N Florida
Monday Cons. Co.
Scott, J. Foster
Worsham, Hugh F., 2540 Jefferson av
MEMPHIS—Abele, W. N., 157 N 3d
Anderson, Axel (Stone), 870 Autumn av
Crawford, D. M. & Co., Builders' Exchange
Creson, R. F. Builders' Exchange
Emmons, D. & Co., 61 Madison
Gettingby, A. W. (Large), 996 Madison av
Harris, J. M., 22 N 3d
Hunter, C. W., 67 Monroe av
Jenkins, Thos. (Stone), 278 Madison
Kelly, M. J., Builders' Exchange
McKnight & Barker, Builders' Exchange
Mohr, Geo., 19 Huling
Moselage, J. H. (Large), Builders' Exch
Parlow, W. E.
Pritchard Bros. (Large), 642 S Camilla
Quinn, C. B. & Co.
Ramsey, J. P., 1995 E Courtland pl
Rettew, H. J.
Roach & Stansell, N Memphis Savings B'k bldg
Seldon-Breck Cons. Co., Tenn. Trust bldg
Silk & Chambers (Brick), Builders' Exch
Slater, O. F.
Southern Improvement Co.
Wagner, Clinton J. (Large)
Wooten, L. E. & Co.
Wright, J. N.
Wright, W. G., 335 Adams
Young, Fred. B. (Large)
MORRISTOWN—East Tenn. Wood Working Co.
Willing, C. B.
MURFREESBORO—Crosslin, J. S.
Dean, J. E.
Henry, W. F. & Co.
Hoffman, Chas.
McAdoo, W. B.
Thompson, J. E. & Co.
Willias Bros.
NASHVILLE—Barnard, Chas. H., 901 Warren
Berry, Nathaniel, 2004 W Jefferson
Biggers, Thos. J., 131 Ford av
Blackman, F. H., 134 3d av, N
Blankenship & Everson, 213 Cleveland
Bowers, S. H., Printers' al n Union
Bowling, James A. & Sons, 306 3d av, N
Brooks, J. T., 1012 Scovel
Brown, Thompson A., 411 Union
Brown, W. A., Lutie & Nolensville rd
Burnett, L. T., 1405 Wheless
Burton, F., 523 N 1st
Busby, P. R., Hart & Mansfield avs
Bush Bldg Co., 41 The Arcade
Carter, Clark C., 2207 Murphy av
Central Cons. Co., 701 Stahlman bldg
Chilton & Billis, 911 Church
Christman, J. Arthur, 404 3d av, W N
Cooper & Ferguson, 1114-26 First av
Cuzzort Bros., White Creek rd & N 1st
Dean, Joseph E., 116 N 4th
DeHart, I. N. & Son, 211 13th av
Douglass, Robert L., Printers' al n Union
Dunn, W. F., 1006 Buchanan
Finney, R. R., Caldwell av n 17th
Foster & Creighton, Berry Blk
Graham, M. M., 418 Deaderick
Griffin, H. & Bro., Printers' al n Bank al
Griffin, O. W. & Co., 425 Deaderick
Griffin, R. A. & Son, Mulberry n S High
Guarantee Cons. Co., First Nat'l B'k bldg
Howell, James L. & Sons, 129 3d av, S
Jones, Green L., 500 14th av, N
Kincaid & Co., 214 4th av, S
Kirk, Eli S., 709 Kentucky av, W. N.
Lanier, Samuel A., 1418 Chadwell av
Lawrence, Edward J., 1st & Main
Lewis, E. T. Co., 59 The Arcade
Lightman, Joseph, 1906 West End av
Lowe, Wm. D., 1107 Horton
McCollum, R. B., 1909 State
McConnell, F. P., 1219 5th av N
McDonald, W. N. & Co., Cole bldg
McEady & Mason, 20th av & Church
McKissick, Geo., 413 4th av, N
Mitchell, J. B., 322 Arrington
Moore, G. & Sons (Large), 521 8th av, S
Norman & Rhodes, 410 Cedar
Pease, T. J., 523 7th av, S
Peter, Jos. H. & Co. (Inc.), 1st & Main
Price, Winfield S., 1105 Boscobel
Primrose, Benj. F., 1104 Porterfield
Proctor, Joseph A., 67 Bridge av
R. C. Cons. Co., 1300 Church
Rives, C. W., 418 Deaderick
Robeson, John C., 401 6th av
Robinson, J. M. & Co., 514 B'way
Ruffin, J. W., 701 Joseph av
Sanders, James S., 83 S 4th
Schuyler, Schuyler & Co., 905 3d av, S
Scott, J. W., 1282 4th av S
Sloan, James A. G., 57 Bridge av
Smith, Cory W., 303 3d av, N
Tolar, T. J., Commerce & Vendome al
Trotter, J. K., 2425 25th av, S
Tucker, J. P., 300 Fillmore
Vaughn, S. M. & Bro., 313 Demonbreun
Vester, J. J., White's Creek pike, 2 miles
Wade & Hobdy, 1st & Oldham
Walden, Harry M., 418 Deaderick
Walker, Peter, 1622 Church
Warren, Thomas P., 304 W Cloud al
Wassmer, Adolphus, 1418 3d av, N
Webb, J. A., 818 Shelby av
Wilkes, M. S. & Son, 30 Bridge av
Willard, Theo. F., 138 8th av, N
Williams, Edward L., 1103 Louisiana av,
Williams, John R., 7 N 1st W. N.
ST. ELMO—Hollahan & Malone (Brick)
SMYRNA—Ward, L. A. & Son

## TEXAS.

ABILENE—Totten, Milo
AUSTIN—Butler, M.
Fiegle, Geo.
BEAUMONT—Whitney, W. C.
BURTON—Nienstedt, Wm.

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DALLAS—Jones, Fred A. Building Co. (Engrs. Slaughter, John W. Const. Co. & Bldrs.)
Watson, Alex.
DENTON—Lovell, Thos. & Sons
EL PASO—Corning & Gray
Hewett & Son
Holland, T. J.
Kerr & Boudett
Krueger, Otto
Ponsford Bros. (Masons)
Peterson, C. A.
Powers, Frank
Rheinheimer, W.
Stewart & Crawford
Sorenson & Morgan (Masons)
Whorley, King
Youngberg, C. M.
FORT WORTH—Bardon, John
Bryce, Wm. Building Co.
Buchanan & Gilder
Flynt, A. W.
Lusher & Rocket
Tomlinsen, S. A.
Worthington, Thos.
GALVESTON—Bowden & Worth
Deats & Morris
Palliser, Robert
HOUSTON—Jones, Fred A. Bldg. Co. (Engrs. Miller, Wm. & Sons Co. & Bldrs.)
MARSHALL—Forsland, Wm.
SAN ANTONIO—Boelhauwe, Chas. G.
Boettler, L. P.
Findlay Bldg. & Const. Co.
Flaig, C.
Fuessel, August
Lindsay, Otto
Loessberg & Reinbold
Moehrig, Albert
Richter, Clemens
Skirving, J. R.
Wagner, Jacob H.
Wiedenfeld, E.
SEGUIN—Goodrum, John W.

## UTAH.

SALT LAKE CITY—Allen, W. L. N., 24 I
Alston, C.
Anderson, P. M.
Armstrong, T. J.
Ashton Bros. (Stone), 464 W 1st S
Asper, Noall & Co., 157 W. N. Temple
Brain, C. J., 73 S Main
Bingham Cons. Co.
Black & Lefler
Brittian, J. H.
Burke, J J. & Co.
Clement & Strange
Commercial Mill & Bldg Co., 141 S 3d, W
Curley, Geo. (Stone), 345 N 1st N
Davis M. & Son
Doran, Frank
Eardley, John A.
Eckert, J. L.
Engdahl, O. M.
Farrell, J. W.
Fletcher, F. E.
Hamlin, A. L.
Hanley, J. C. Cons. Co.
Grunfor, Andrew, 726 W 6th N
Hanson, H. P.
Hartwell, O. E.
Hodgson, O.
Holmes & Watkins
Inter-Mountain Lbr. & Bldg Co.
Jenkins, A. J.
Jones, J. E.
King, M. M.
Lester, Samuel, Jr.
Lister, Wm.
McGinty, G. E.
Marron & Baker
Martin, L. D.
Mellen, J. W., Jr.
Mickel, Henry
Mickelson, A. P.
Morrow, Geo., 512 Constitution bldg
Nelson, Ole
Nilson, Olof
Pacific Cons. Co.
Percival, J. W.
Ritter, L. K.
Rudden, A.
Rushton & Burkinshaw
Salt Lake Bldg & Mfg. Co., 40 N 2d W
Schraven, J. F. & H. E.
Shaw, A. & L. C.
Sholvaker, W. J.
Showell Bros. & Belcher (Inc.)
Sunter, W. R.
Tuddenham, W. J., 663 2d
Warren, O. P.
Warren, Samuel P.
Wattrous, Ray
West, Cornelius
Wheelon, E. R.
Whitman, Edward M.
SPANISH FORK—Spanish Fork Cons. Co.

## VERMONT.

BARRE—Bradford, W. F.
Bugbee, C. L.
Churchill, Chas. A.
Waters, Fred'k
BENNINGTON—Carpenter, Theo. A. & Sons
Dunham, Walt. E.
Filling, Robert E.
Remington & Wood
Silk, Jas. S.
BRANDON—Rogers, Thos. W.
BRATTLEBORO—Bailey, Martin A.
Cushman, Wm.
BURLINGTON—Austin, Z. T., 244 College
Mitchell, Frederick P.
Moore, Eugene F.
Spear Bros., S Battery c Bank
Spear, Chas. W
Vermont Cons. Co.
Whitney, Chas., 10 Townsend pl
FAIR HAVEN—Wood, Nelson
HARDWICK—Angell, Timothy E.
Shepard, Chas. O.
Trow, Geo. C.
ISLAND POND—Ladd, M. B.
LUDLOW—Chapman, Geo. H.
Lawrence, Harry S.
MONTPELIER—Alexander, A. J.
Jackson, W. E.
Perkins, Jas.
NEWPORT—Norris, Charles A.
RUTLAND—Adams, Arthur L.
Conniff, Frank, 55 Evergreen av
Houston, Byron K., 53 Chestnut av
Page, Chas. E., 141 N Main
Remington, F. H.
ST. ALBANS—Butler, J. E.
ST. JOHNSBURY—Bragg, Alfred L.
Brunnelle, Jos.
Foye, James M.
Lynch, C. R.
SPRINGFIELD—Burpee, Chas. E.
Burpee, Warren L.
Morse, Jos. E.
Morse, Wm. P.
WATERBURY—Deal, William
Hazelton, Walter
WINDSOR—Morrill, H. E.
WOODSTOCK—Goble, Peter A.

## VIRGINIA.

ALEXANDRIA—Chauncey, G. W. & Son
Rogers, Joseph F., South Fairfax
BEDFORD CITY—Bondurant, J. E.
Hill, C. R.
Overstreet & Wingfield
BERKLEY—Johnson, A. S. & Co.
Jones, Jno. W.
Phelps & Old
BRISTOL—McCrary, J. R. & Son
Scharf, C. R. & Co.
Smith & Wilson
BUENA VISTA—Grow, W. H. Co.
Newland, Wm. P.
CAPE CHARLES—Grimmer, Conrad
CHARLOTTESVILLE—King Lbr. Co. (Large)
CLIFTON FORGE—Alleghany Construction Co. (Large))
Emswiler, L. A.
DANVILLE—Deitrick & Pearson
Fitzgerald, J. H. & Co.
Fitzgerald, W. G. B.
Graham, R. B., 312 Patton
FARMVILLE—Bolling, Thos. A.
Cox, Geo. E.
Pollard, Daniel
Twetvetress, F. H.
FREDERICKSBURG—Stearns, Frank P.
Worter, Geo. W.
GROTTOES—Eutsler Bros. (Large)
HAMPTON—Brinson, J. H.
Holtzclaw, C. T.
Messenger, P. B.
Pully, L. O.
Richardson, R. H. & Son
Seymour & Mears
Tennis Cons. Co.
Tennis, R. B.
Weston, Alex.
LEXINGTON—Layne, D. S.
LYNCHBURG—Adams-Monroe Mfg Co. (Large)
Agnor, Lee S. & Son
Bartemus J. P.
Bennington, S. B.
Ellis-Winfred Cons. Co.
Hancock, C. W. & Son
Jones, W. T.
McLaughlin, Jas. T., 211 Ninth
Pettyjohn, John P. & Co. (Large)
Smoot & Shehan
Snead, W. B. & Co., 1321 Main
Womack, C. W. & Co.
MANCHESTER—Walker, R. D.
MARTINSVILLE—Burge, L. J.
NEWPORT NEWS—Akers, W. H.
Barbour, D. B. & Co.
Curtis, Jas. C., 114 35th
Davis, J. W. (Brick)
Davis, Jno. W., C. & M. Bank bldg
Downing, Julian E., 231 20th
Frazer, J. J.
Gayle, M. W.
Harwood & Moss
Morgan, E.
Phipps, D. J.
Richardson, West, Silsby bldg
Via, Geo. A., 114 27th
Ware, Geo. G., 2401 Orcutt av
NORFOLK—Abrames, Harvey
Addenbrookes, J. W. Sons, Grandby & N.
Anders, J. D., 23 Esse bldg & W. Ry.
Ashton, Wm. J., 220 E Brown av
Baker & Brinkley
Banks, Geo. T.
Brent, Wm. J., 322 Board of Trade bldg
Cahoon, Gray & Co.
Davis, Lewis M.
Dear & Tott&y
East & Hobbs
Fearing, Chas. E.
Ferguson, Robert T.
Gregory, Robert H. (Brick)
Gregory & Williamson
Jarvis, C. W.
Johnson, Jesse
Lenoir & East
McLean Contracting Co.
McMahon, John T.
McNamara, Henry
Myers, Turpin Const. Co.
Monk, John
Pierce, J. H.
Proceher, Geo. L.
Richardson Const. Co.
Roberts, I. C.
Sanford & Brooks
Sawyer Bros.
Sharply & Graham
Spann, Edgar (Brick)
Spann, John F. (Brick)
Specialty Const. Co.
Tatterson, Elbert
Tyree, W. E., Lowenberg bldg
Vega & Richardson
Williams, S. G. & Co.
PETERSBURG—Benson, Lewis O.
Brister & Harrison (Inc.)
Brown, B. F.
Goodwin, Geo. M.
Harrison Cons. Co.
Rowell, J. C., Sheppard
PHOEBUS—Cross, E. & Son Co.
Culpepper, Z. O.
PORTSMOUTH—Boswick, Jas. R., 1112 Effingham
Foreman, Edward S.
Godwin, David W., 922 Effingham
Hutchins, S. B., 409 Wythe
Johnson, C. C.
Keeler, J. B. & Son
Nelms, C. F.
Ogg, A.
Overman, E., County ex. c Virginia av, C P
Perdue, Wm. A.
Tee, John C.
Turner, W. R.
Webb, John N., 332 High
White, H. S.
Williams, C. T.
Williams, Jas. F.
RADFORD—Dudley, Jacob W.
Stump, J. T.
RICHMOND—Ancarrow, N. E., 724 E Main
Atlantic Bitulithic Co., 413 Mutual bldg
Barry, Thos. A. & Co.
Batkins, C. L.
Bedfor, A. C.
Beveridge, W. H., Jr., 507 W. Clay
Bradley, W. B. Cons. Co., Dock nr 17th
Chesterman, W. A. (Large), Cham of Com.
Cosby, Benjamin F., 109 N 8th bldg
Davis Bros., 2513 Floyd av
Dietrich, E. J., 270 E Main
Elmore, R. E. & Co., 1625 W Broad
Ford, E. P., 2611 W Main
Fox, Jas. & Sons, 207 Mayo
Gilman, W. J., 1810 W Grace
Heppert, Joseph, 908 W Clay
Houston, A. C., 10 S 6th
Jenkins, L. Chastine
Langford, Chas. H.
Mankin Cons. Co., 812 E Main
Mason, C. A.
Matthews, Harvey L., 9 S 6th
Maynard & Ford, 1900 Floyd av
Moore, Wm. H., 1321 Ross
Netherland & Enbank, 2701 N Cary
Newell, Wm. B., 1315 Park av

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Nuckols, John T., 1111 E Main
Parsons, Geo. W., 413 E Canal
Pollard, C. W., 1208 N 20th
Powers, John T., 2406 Grove av
**Roney & Atkinson**
Schminke, J., 615 Albemarle
**Siewers, Richard A.**
Sims, C. T., 309 W Clay
Swann, Thos. C., 3419 E Clay
Thomas, Jos. W., 408 N 5th
Tiller, Geo. W., 415 W Clay
Walkup, Alva M., American Bank bldg
Wilson, Jno. T. (Large), Mutual Assurance Society bldg

ROANOKE—Barbour, John F., Crystal Springs
Brooke & Hunter Ex
Conley, D. C. (Stone), 233 Gilmer av
Figgatt, R. A.
Grove, W. H., 348 Elm av, S. W.
Harris, J. G.
Keffer, O. D., 403 Highland av, S. W.
Kirkwood, G. G.
Markley, C., 8 Campbell av, S. W.
Marshall, A. L.
Nesbitt, Jos. C.
Pollard, J. B., 116 10th, S. W.
Rhodes & Wade
Shockey & Field

SOUTH NORFOLK—Johnson Bros.

STAUNTON—Blackburn, John H. & Bro.
Blackburn & Lohr
Larner, Wm.
Lavick, A. J.
Payne, Montague

SUFFOLK—Darden, J. M.
Riddick, B.

WINCHESTER—Dieffenderfer, E. H.

## WASHINGTON.

ABERDEEN—American Cons. Co.
De Lodge, Paul A.
Taylor, Fred
Tiefenthaler, J.

ANACORTES—Barnett, C. C.
Davis, D. J.
Dean, Jesse
Pennington & Trafton
Robertson, J. S.
See, E. G.
See, J. J.

BELLINGHAM—Baumeister, W. I. & Co.
Beebe Bros.
Booker & Campbell
Campbell & Anderson
Lind, Chas. E.
Martinson & Ossberg
Riddle & Kavanaugh
Sauset, K.
Waples, Magnus

CHEHALIS—Anderson & Robinson
Robinson, Geo. A.

COLFAX—Good, J. R. & Co.

ELLENSBURG—Ackley, H. C.
Ames Bros.
Moon, Jno.
Riggs, Alonzo

EVERETT—Baptie, Walter
Bergeron, T. J.
Bishop, Geo. H.
McAdam, A. D.
McAdam, Robert B.
Thorzig, A. & Co.

HOQUIAM—Grays Harbor Const. Co.
Hall, C. T.
Knack, F.
Romans, O. H.
Waldron Bros.

MOUNT VERNON—Stackpole, F. H.

NORTH YAKIMA—Friesen, G. E.
Howard, A. E.
Lum, C. E.
Switzer, A. F.
Wise, W. A.

PORT ANGELES—Gate City Cont. Co.
Wood, P. J.

**PORT TOWNSEND—Stegerwald, Andrew**

PULLMAN—Pullman Improvement Co.
**Valk, A.**
Ritzville—Carlen, G. A.
Roth, Benj
Schuler, S. S. & Sons

ROSLYN—Adam, Wm.

**SEATTLE — Anderson-Power Construction Co., People's Savings Bank bldg**
**Anderson & Christiansen, Hinckley block**
**Arctic Const. Co., Arctic Club bldg**
Arvesen, Marcus B., 219 Spring
**Barnes, Frederick M., Arcade Annex**
**Bauman & Rominger, 901 28th av**
**Black, Jas. Masonry & Contracting Co., Alaska bldg**
**Bliss & Wilkin, New York Life bldg**
**Bryant, Eliza, 6702 Jones av, N. W.**
**Bungalow Co., Oriental block**
Cannon, Francis S., Arcade Annex
Coleman, John K., Alaske bldg
Columbia Realty Co., 4858 Rainier av
Combs, P. S. & Co. (Large), B. S. Johnston Co. bldg
Criddle, Frederick J., 1518 Bigelow av
**Davidson & Hawkins, 2154 Alki av**
**De Lage, Wilfre, Epler blk**
**Dexter & Son, 3242 Hudson**
Ditlefsen & Gerring (Large)
**Doty, O. M., 816 Union**
**Douglas, Napoleon B., Bailey bldg**
Elder & Carkeek, 427 E. Denny way
Enterprise Const. Co., Northern Bank & Trust bldg
Foster, D. D., 112 Pike
**Frantz, J. J., Sullivan-Considine bldg**
Gallinger, Robert L., Pacific blk
Geske, C. & Co., Pacific blk
Ginnold, Alonzo R., New York bldg
Gould & Champney (Large)
Groppenbacher, Geo. J. & Co., Central bldg
**Hamman & Thistlethwaite, 309 4th av, N.W.**
**Heinrich, Benj. F., New York bldg**
**Heuver & Ayers, 828 Yesler way**
**Holt & Jones, People's Savings Bank bldg**
Hudson Bros., 907 N. 79th
Jimerson Bros., 1720 Boren av
Jones Construction Co., Arcade Annex
**Kimball, Fred. M., New York bldg**
Klaboe & Quist, Bailey bldg
Kriegel, Emil, 211 Union
**Layton, Fred'k W., Washington bldg**
**Leary Building Co., American Bank bldg**
**Lucas, W. M. Building Co., White bldg**
Lylliaasen & Sands (Large)
McCullough, Samuel M., People's Savings Bank bldg
McLean, Wm. J., Walker bldg
Manhattan Co., Central bldg
Maple Mfg. Co., 91 Blanchard
Megrath & Duhamel, White bldg
Noyes & Dutton, Central bldg
Pattison, Oscar A., New York bldg
Pearson, Alexander, New York bldg
Pemberton Bros., Central bldg
Queen City Const. & R. Co., Hinckleb yld
Rochford, John C., Central bldg
Siefert & Weston, Bailey bldg
Stanchfield, John W., New York bldg
Stewart, Hope D., Marion bldg
Sundstrom & Ross, 2625 W. Andover
Syliaasen & Sando, Arcade bldg
Weed, Theodore D., 3839 Edmunds
Wigmore-Knowles Co., Arcade Annex
Williams, Chas. L., New York bldg
Winquist, Frank G., Empire bldg
Woeck, Peter, Oriental blk
**Young, Thomas E., American Bank bldg**

SEDRO WOOLLEY—Ennis, D. B.

SOUTH BEND—Rude, C. O.

SPOKANE—Broad, Jas. C.
Huetter, J. T. E.
Jasper, Chas.
Lahr, Ernest E.
Murphy, M. C.
Peterson, P. L. (Large)
Phair, Frederick E.
Scott, Salter & Scott
Willett & Camp

TACOMA—Bertelson, S. & Sons
Black, A. S., 726 St. Helens av
Blows & Tuell
Bonnell, J. E. (Large), 758 Commerce
Cornell Bros.
Farr, Wm. E.
Hoffman & Godfrey
Huntington, John & Co., 1712 Commerce
Hurley-Mason Co.
Jones, N. A., 425 California bldg
Ketner Bros.
Knoell Bros., 1211 S L
Lance & Peters (Inc.)
Lister Const. Co., 516 Berlin bldg
Snyder, Frank, 821 Court A
Wells Construction Co.
Western Engineering Co.
Winston Bros. & McDougall
Young, W. B.

VANCOUVER—Ferris, F. L.
Hardin & Moore
Rectar, A. B.
Sanderson, W. G.
Sypneski, Martin

WALLA WALLA—Bailey & Lambert
Bessett, Henry E.
Caris, C. F.
Cox, E. G.
Wassell & Taylor

WENATCHEE—Bailey, I. J. & Co.
Rogers, F. A.

## WEST VIRGINIA.

BLUEFIELD—Kirkbridge, T. W.

CHARLESTON—Newsume, W. D. Co.
Withrow, A. F. & Co.

CLARKSBURG—Hickman, C. L.
Howell, C. P.
Ivenchell & Elliott
Lawman, I. F.
Offner, J. E.
Primns, Tom
Prunty, C. E.
White, J. E.

FAIRMONT—Amos & Phillips
Barchinal, T. L.
Fleming, O. J.
Heckman, W. R.
Holbert & Spedden
Moats, D. D.
**Silly, Geo.**

GRAFTON—Keane, J. M.
Magill, J. L.

HUNTINGTON—Shultz, J. B.

MARTINSBURG—Couchman, G. H.
Westenhauser, S. A. (Large)

MORGANTOWN—Smith Cons. Co.

PARKERSBURG—Davidson, S.
Keenan, Christy (Brick)
Keenan, Samuel (Mason)
Lowther, S. H.
Reich, Matthew

PIEDMONT—Sigler, Wm. T.

SALEM—Davis, M. W.
Robinson, J. T.
Watson, A. J.

WELLSBURG—Davis, J. G. W.
Jacobs, Emory
Mathews, J. H.

WHEELING—Beltz, J. W. & Sons, 18th c Goff
Geisey, John L., 149 15th
Hamilton, N. C. & Sons (Brick)
Jackson, T. W. (Stone)
Murray Bros. (Stone), 1200 Goff
Perkins, B. Frank (Brick), 2331 Goff
Rosenberg, J. H. & Son (Stone), 2810 Goff
Wilson, W. A. & Son, 1215 Main
Woods, W. W. Co., 3d & Chapline

## WISCONSIN.

ANTIGO—Otis, J. W.

APPLETON—Appleton Const. Co. (Gen'l Bldrs.)
Ashman, George
Beske, Herman R.
Blake, Walter (Mason)
Fraser, A. A. (Also Lumber Dealer)
Greinke, Herman (Mason)
Hackworthy Const. Co. (Large. Heavy & Mill Bldgs., etc.)
Hegner, John H. (Large)
Hoeppner, Fred.
O'Keefe-Orbinson Eng. & Const. Co. (Paper & Pulp Mills)

ASHLAND—Asselstine, Henry
Eagan, Daniel
Jacobs, Barney
Pugh, T. E.
Sandstrom, John
Scott-Taylor Co. (Large)
Wilkinson, Geo.

BARABOO—Graff, Henry
Isenberg Bros.
Judivine, Arthur

BEAVER DAM—Kathlow, R. F.
Klatt, Albert
Klatt, Edward
Linde, John

BELOIT—Cliff, John
Cunningham Bros. (Large)
Dearhammer, A. L.
Fitzgerald, Wm. (Mason)
Kiesling, H. J.
Lathers, J. M.
Ledell, J. H.
Magill, W. K.
Meagher & Cook
Quinn, W. H.
Schneiberg, Anton (Mason)
Schneiberg, John (Large)

BERLIN—Ceman, Julius F.
Haminiski, Frank E.
Kramp & Ceman
Otetter, Louis

BURLINGTON—Diener, Chas.
Rottering Bros.
Rueter, Jas. A.
Salsbury, Joseph C.
Zarnecke, Gustave

CHIPPEWA FALLS—Campbell, A. J.
Lister, Wm.
Stanley, F. G. & C. A. Co.

EAU CLAIRE—Arnold, L. L. & Co.
Hoeppner, Bartlett & Co. (Large)
Lang & McAnulty
Meyers, Wm. L.
Peterson Bros.

EDGERTON—Hargreaves, Geo. W.
Henderson, J. O.

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FOND DU LAC—Dreis, Mathew (Mason)
Hutter, Jos., Sr.
Immel, John W.
Ley, Julius
Ludenbergen, Jos. & Co. (Masons)
O'Connell, Thos.
Scheer, Otto
Sizer, F. E.
Voeil, Anton
Weeks, H. O.
FORT ATKINSON—Griffin, C. J.
GRAND RAPIDS—Weinberg, J. F.
GREEN BAY—Agamaite, Edw.
Allard, Philip
Anderson, Peter N.
Biebel, Joseph
Braasch, Walter
Capelle, John (Mason)
Colomb, Joseph (Mason)
Crone, Joshua
De Groot, Peter
Farby, Louis (Mason)
Feldhausen, Nickolas
Geniesse, Jule H.
Green, Adolph (Large)
Hansen, Niels
Henkelmann, Edw. F. (Mason)
Johnson, Magnus
Kosciuk, Joseph (Mason)
Larsen, Peter H.
Larson, Rasmus P.
Le Fever, Eugene (Mason)
Lindenborn, Geo.
Manson, Alex. G.
Minahan Building Co.
Naumann, John (Mason)
Nitz, Gustav R.
Norcaust, Frank (Mason)
Petersen, Hans T.
Rose & May (Masons)
Schmidt, Herman (Mason)
Selmer, Henry J.
Servotte, Ernest W
Tickler, Albert J.
Tilkens, Michael
Tillemans, Frank (Mason)
Warwick, James
Weber, Joserh L.
Wozniak, Thomas (Mason)
HAYWARD—Martinson, Chas.
HUDSON—Kircher, Peter
Lee, John
JANESVILLE—Baker, Orlando
Calling, Geo. K.
Cullen, J. P. & Co. (Large)
Dailey, Chas. W.
Donehoe, Edward
Ford & Boos
Hager, Julius (Mason)
Hager & Iseller
Hays, W. & C.
Heise & Roherty
Hilton, Elroy B.
Kelly & Mason
Nowlan, Oscar F.
Roesling, Fred. C.
Shearer. James (Large)
Stewart, David
JEFFERSON—Christ & Lindi
Krussing, Geo. G.
KAUKAUNA—Smith, Geo. L. Co.
KENOSHA—Andersen, Ernest G.
Gaastra, Douwe
Jensen, Jas. (Mason)
Knudson, Knud P.
Larsen, Fred. (Mason)
Larsen, John (Mason)
Tully, Jos. H. (Mason)
KIEL—Becker, Henry (Mason)
Klein, Joseph H.
Neumann, August
LA CROSSE—Barney, T. J. (Brick)
Daten & White (Masons)
Drake, Henry
Gutzke, Albert
Hilliker & Reiley
Miller, Jno. A.
Mitchell, A. H.
Nelson, Peter (Large)
Noble, C. W. Co. (Large, General)
Schwalbe, F. N. (Large)
Sorensen, Ori J.
Stormont, James
Wallace, Edw. (Mason)
LAKE GENEVA—Huntress, H. W.
La Salle, Chas. O. & Son
Reinert, Malsch & Baumbach
Soutar, R.
Thomas, T. E.
Vipham, Thomas (Brick)
LANCASTER—Brackett, F. A.
Brooker Bros. (& Planing Mill)
Price, Daniel
MADISON—Bischoff, Geo. L.
Butler, Dawson R.
Copp Bros.
Cork & Holt
Doran, M. M.
Faber, Peter
Findorf, J. H. (Large)
Forbes, Geo. W.
Frederickson, A. D. & V. J. (Large)
Fritz, Carl
Gilbert, L. B. (Large)
Hanson, Fred, 26 N Baldwin
Hines, Geo.
Johnson, Adolph
Luetcher, Jacob J., 807 E Johnson
McCarthy, T. C. (Large)
Mead, Daniel W.
Melentine & Christhopher
Mitchell, J. H.
Morgan & Morgan (Large)
Oakley Buser
Parr, L. L.
Paunach, Edward
Quinn, Nichols
Sayle Building & Mfg. Co.
Sieler, W. F.
Stephens, David
Tyrrell, Jos. 444½ W Gilman
Vogel, Geo. C.
MANITOWOC—Bartel, Wm. (Mason)
Braasch, Walter
Brachmann & Levenhagen
Goetzler, Rudolph (Large; Mason)
Hermann, Benjamin
Kelley, Patrick (Mason)
Kennedy, G. W.
Koutrick, Wenzel (Mason)
Schadeberg, Geo. (Mason)
Sporer, Thomas
Steuber, Jos. (Mason)
Strothoff & Rambadt
Tomchek, A. C.
MARINETTE—Utke, Julius E.
MENASHA—Lux, John
MENOMONIE—Bunker & Doolittle
Govin, Stephen
MERRILL—Hesterman, Fred
Juve, A. O.
MILWAUKEE—Ahrendt & Nero, 322 Ogden av
Baltes, A. & Son, 108 Lincoln av
Beck, C. Co., 1150 Kinnikinnic av
Biemann, Otto & Son, 1303 Richards
Buchach & Clauer Const. Co., 395 Third av
Buchholz, Richard, 3116 McKinley boul
Buestrin Const. Co. (Large), 565 E Water
Christiansen & Brunk, 315 Mineral
Clas, L. A., 564 Marryland av
Conrad, Joseph B., 204 Reed
Debbink, John, 1621 Vine
DeWolf Cons. Co., 96 Wisconsin
Ellis & Coogan, 599 Jackson
Emerson, F. M. Co., 135 Grand av
Fromm, Oscar, 892 5th
Galke, Paul & Co., 832 Winnebago
General Cons. Co. (Large), 106 Mason
Graf, Wm. M., 825 28th
Graham Cons. Co., 748 Cass
Grellinger, Nicholas, 2447 Walnut
Gruendler, Geo. Sons, 481 B'way
Guetzkow, Herman A., 557 3d
Guetzkow, L. A., 142 2d
Hahn. Ernst, 723 Prairie
Hansen, Robt P. & Co., 563 27th av
Hassler, Frank, 502 37th
Hathaway, J. E. & Co., Canal w of 1st av
Hausmann, Jacob, 777 36th
Hausmann, Nicholas, 135 Grand av
Hegeman, Henry W., 557 Oakland av
Holstein, Aug., 1726 Chestnut
Hove, Henry, 1922 State
Huebner, Herman, 520 Jefferson
Hunholz, Frank. 2820 McKinley boul
Hunholz, John, 713 33d
Johnson, F. O., 727 34th
Johnson, Wm. F., 733 31st
Jones, John G., 209 Pleasant
Junck, H. F., 762 Pryor av
Kasten, Wm., 769 9th
Keller, Richard, 785 45th
Kelling, Aug., 170 Garfield av
Kelling, Henry C., 876 Cotton pl
Koerner, Theo., 629 Summit
Kindt, Charles F., 2023 Syeamore
Kindt, Otto H., 1016 30th
Klaeser, John, 548 19th
Kleppe, C. A., 878 2d
Koehn, John, 602 Maple
Koenew, Jacob, 864 Robinson av
Kowske, Chas., 406 Herman
Krueger, Herman, 997 8th av
Landguth, J., 1211 Galena
Langenberger Cons. Co., 302 6th
Lauer, Nick, 1719 Galena
Lauer, Peter, 3934 Vliet
Lentz & Schiller, 832 Richards
Lutz, Henry C., 1345 10th
McCann Bros., 461 Van Buren
Meredith Bros. Co., 1043 Kinnikinnic av
Miller, Lorenz, 982 26th av
Nuedling, A. & Son, 998 16th
Pierce Mfg. Co., 613 Cherry
Posson, Peter E., 427 Summit av
Quinn, James J. Co., 208 Milwaukee
Raulf, Conrad, J., 533 24th
Riesen, Paul (Large), 1022 Humboldt
Riesen, Richard (Large), 240 24th
Riesen & Wilkie, 421 3d
Sand & Teske, 633 Madison
Schauer, Herman C., 1084 25th av
Schmitt, Herman, 1511 Ring
Schramka, Leo, 878 N Pierce
Schuett & Frey, 791 Weil
Schulz, Erdmann, 673 Kinnikinnic av
Smith, D. E. & Co., 221 Grand av
Stollenwerk, Elias & Co., 952 Aldrich
Story Bros., 204 Grand av
Strack, W. F., 143 Clark
Taddey, Adolph G., 748 46th
Taddey, F. W. & Son, 1705 Chestnut
Van Rhienan, Wm., 134 Grand av
Van Roo, Jacob, 538 10th
Vogel, F. L. & Son, 508 State
Wallschlaeger, Hy., J., 1411 Cedar
Wilk Building Co., 711 37th
Williams, Wm. G., 352 Jackson
Ziemann, Henry, 313 1st av
Zunker, William L., 3023 Mt. Vernon av
MINERAL POINT—Ellery, Jas. & Co.
Enzenroth, Herman
Gibbens, Lawrence
MONROE—Bauman & Keister
Iseley, Samuel
NEENAH—Austin, Jas.
Kittow, D. A.
Neilson, Anton
Sindahl, Wm.
NEW RICHMOND—Traiser & Barrett
OCONOMOWOC—Andrews & Jacobson
Flotow, Louis
Nelson, J. & Son
W. E. Company
OSHKOSH—Barber, A. H.
Euler, John F.
Fluor, Casper
Fluor, R. & Bro. Const. Co. (Large)
Hoppe, Fred.
Kitz, H. F.
Kuntzendorff, H. W.
Mace Bros.
Mace, Edward
Mayer, Chas. R. & Son (Masons, Large)
Mertz Bros.
Miller, Anton F.
Miller, Jerome H.
Myers & Peterson
Pitz, August (Large)
Raycraft, J. T. (Large)
Schwertfefer, Henry O.
PLATTEVILLE—Hughes, J. O. & Son
Kleinhammer, Henry
Rose, J. M. & Son
Satterlee & Knautz
PLYMOUTH—Radloff, Franz
Runge, Wm.
PORTAGE—Brodie, Harry G.
Kutzke Bros.
PORT WASHINGTON—Berners, Hubert
PRAIRIE DU CHIEN—Steiner Bros.
RACINE—Allen, John H. & Co. (Masons)
Andersen, Hans
Bain, Peter (Mason)
Coonley, George
Hansen, Frederick
Harcs, Adam H. (Large)
Hay, Thomas (Large)
Hocking, Josiah (Large)
Jacobson. Anton L. (Large)
Jensen Bros. (Large)
Johnson, Chas. O.
Jones, Llewellyn S.
Kapple, Andrew C. (Large)
Larsen, William
Menden, Theodore
Nelson & Co. (Masons, Large)
Owens, John
Seater, George (Mason)
Sorenson, Julius (Mason)
Svenvig, Christian (Mason)
Wahlen, Gerhard (Mason)
Williams, Edward
Williams, Wm. L.
REEDSBURG—West Side Building Co.
RICHLAND CENTER—Miner, Grant L.
RIPON—Howe, A. S.
RIVER FALLS—Ostness, O. H.
Turnquist, Louis
SHEBOYGAN — Ackerman, C. & Son (Masons, Large)
De Karske, Aug. (Mason)
Geib, Frank
Guenther, Wm. & Son (Masons)
Haack, Charles
Jahn, Rudolph

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Kramer, Aug. & Sons (Masons)
Luecke & Hilpertshauser Masons, Large)
Mai & Haun (Masons)
Meir, H. E. & Louis (Large)
**Quasius, George**
Schneidewind, Fred. (Mason)
Schuetz, Guenther & Sons (Large)
Sievers, Hans
Stubenrauch & Grasse
Trimberger & Rath (Masons, Large)
STOUGHTON—Hill, Fred.
Ovren, Aug. E. (Large)
STURGEON BAY—Falke & Greisen Const. Co.
**SUPERIOR—Baxter, Fred.**
**Dauploise, A. J.**
**Joos & Osmundsen**
**McKenzie & Arris**
**Runions, R. W. & Co.**
**Schmidt Bros. & Hill**
**Sedlacheck & Arris**
**Shunn, W. H.**
**Stott Briquetting Co. (Brick)**
**Whitney Bros.**
**Zachau, Aug.**
TWO RIVERS—Kappelman, Henry
Krause, Chas.
Rath, Michael (Mason)
Rehrauer, John
Reis, John
Schwab, Edw.
Wolfe, F. L. (Mason)
WATERTOWN—Bartlett, E. L.
Cowan, Frank
Reimann & Strassburg
WAUKESHA—Advance Cons. Co.
Blair, P. R.
Frank, John
James, Chas.
Laughlin, Edw.
Meyer, Mike
Smith, Frank S.
WAUPACA—Jenson, Simon
Knudson, H. P.
Nelson, T. G. Lumber Co.
WAUPUN—Howard, Jno.
WAUSAU—Anderes, Jno. & Son
Dean, W. H. H.
Miller, John
Miller & Krause
WAUWATOSA—Dittmar, Christ
Mueller, Jno. A.
Sparleder, F. H.
WEST ALLIS—Carson, W. T.
Marks. Bros.
Weber Bros.
WEST END—Riesch, Ben.
WHITEWATER—Bonnett, E.
Tubbs, A. H.

## Builders' Cast Iron Work

(See Firms in Iron, Architectural & Ornamental, marked with a Star (*); also Machinists & Founders)

## Builders' Hardware

(See Hardware Manufacturers)

## 1161a—Builders' Cast Iron Work

(See Iron, Arch'l & Ornamental; also Iron Railings & Fences; also Iron Stair Builders; also Steel Structural Work)

## Builders' Mill Work

(See Interior Hardwood Work)

## Building Blocks

(See Blocks, Hollow Building)

## 1162— Building Directories (Changeable)

Changeable Sign Co., 415 B'way, New York
Monash-Younker Co., 1407 W Jackson blvd, Chicago Ill.
**TABLET & TICKET CO., 541-553** Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)
U. S. Changeable Sign Co., 3 W 29th, New York

## 1163—Building Materials (Second Hand)

Buckeye Wrecking & Building Co., Cincinnati, Ohio
Buffalo House Wrecking & Salvage Co., Buffalo, N. Y.
Candee & Krekeler Co., 472 Hamilton av, Brooklyn, N. Y.
Chicago House Wrecking Co., 35th & Iron, Chicago, Ill.
**Elston, A. A. & Co., 113 Devonshire, Boston, Mass.**
Greene, Byron W., Jr. Co., 309 Av B, New York
Jump House Wrecking Co., 45 W 34th, New York
Lash, Aug. F. Co., 29 D, Boston, Mass.
Missouri Wrecking Co., Jefferson av & O'Fallon, St. Louis, Mo.
Pachoud Bros., 1037 Gilbert av, Cincinnati, O.
Reeber, Jos. Sons, 3rd av & 140th, New York
Seagrist, F. W. Jr., & Co., 304 Avenue B, New York
Southard, Chas. H. Co., 59 9th av, New York
Van Keuren & Son, Jersey City, N. J.
World's Fair Wrecking Co., Richmond & Horne, Cincinnati, O.

## Building Papers

(See Paper, Roofing, Sheathing & Building, Manufacturers, Also Asbestos Materials)

## 1164—Building Sheathing (Felt)

(See also Felts, Roofing)

Barrett Mfg. Co. (Red Rosin Sized, etc.), 17 Battery pl, New York
Diem & Wing Paper Co., Cincinnati, O.
Field & White, 116 Nassau, New York, & Boonton, N. J.
Hydrex Felt & Engineering Co., 120 Liberty, New York
Keystone Hair Insulator Co. (Hair Felt), Pittsburg, Pa.
New England Felt Roofing Works, Boston, Mass.
Standard Pipe Covering Co., Cleveland, O.
**Stewart, W. H. Mfg. Co., 65 Delevan, Brooklyn, N. Y.**
Union Fibre Co. ("Linofelt"), Winona, Minn.
**WATSON, H. F. CO. (Asbestos), Erie,** Pa. (See adv. index & branch offices, end of book)

## 1164a—Building Sheathing Quilt (Asbestos)

**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## 1164b—Building Sheathing Quilt (Cabot's)

**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## 1165—Bulbs (Incandescent Lamp)

Corning Glass Works, Corning, N. Y.
Fostoria Glass Specialty Co., Fostoria, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gill Bros., Steubenville, O.
Libbey Glass Co., Toledo, O.
Pairpoint Corporation, New Bedford, Mass.
Phoenix Glass Co., Pittsburg, Pa.
Wagner Glass Works, 697 E 132d, New York

## 1166—Bulkhead Builders (Concrete)

**RAYMOND CONCRETE PILE CO., 140** Cedar, New York. (See adv. index & branch offices, end of book)

## Bulldozers

(See Bulldozer or Bending Machines)

## 1167—Bulletins for Office & Loft Buildings (Changeable)

**TABLET & TICKET CO., 541-553** Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

## 1168— Bullion (Copper)

American Metal Co., 52 B'way, New York
Beer Sondheimer & Co., 42 B'way, New York

## 1169— Bullion (Lead)

American Metal Co., 52 B'way, New York
American Zinc, Lead & Smelting Co., Caney, Kans.
Beer, Sondheimer & Co., 42 B'way, New York
Selby Smelting & Refining Co., San Francisco, Cal.
U. S. Metals Refining Co., Boston, Mass.
U. S. Smelting Co., Salt Lake City, Utah
Vogelstein, L. & Co., 100 B'way, New York

## 1170—Bumpers (Automobile)

Turner Brass Works ("Harroun"), Sycamore, Illinois

## 1171—Bumpers (Car Seat)

Acme Rubber Mfg. Co., Trenton, N. J.
Consumers Rubber Co., Cleveland, O.
Continental Rubber Works, Erie, Pa.
Elastic Tip Co., Boston Mass.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Massachusetts Chemical Co., Walpole, Mass.
Morgan & Wright (Inc.), Detroit, Mich.
**NEW YORK RUBBER CO. (Rubber),** Reade & Church, New York. (See adv. index, end of book)

## Bumpers (Rubber)

(See Rubber Bumpers & Cushions)

## 1172—Bunchers (Asparagus)

Wyckoff Bros., Hightstown, N. J.

## 1173— Bunchers (Clover)

American Buncher Mfg. Co. ("American," "Prairie"), Indianapolis, Ind.
Blacki, F. Co., Sheboygan, Wis.
Gaterman Mfg. Co., Manitowoc, Wis.
Thornburgh Mfg. Co., Bowling Green, O.

## Bung Mfrs.

(See Plugs, Wood)

## 1175— Bung Starters

Boston & Lockport Block Co., Boston, Mass.
Freeman Mfg. Co., Kalkaska, Mich.
Piqua Handle & Mfg. Co., Piqua, O.
Redlich Mfg. Co., 637 W Oak, Chicago, Ill.
Sandusky Tool Co., Sandusky, O.
Sommers, Jno. Faucet Co., Newark, N. J.
Union Hardware Co., Torrington, Conn.
White, L. & I. J. Co., Buffalo, N. Y.

## 1175a—Bung Straps for Barrels

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1176— Bunting Mfrs.

Horstmann. Wm. H. Co., Phila., Pa.
New England Bunting Co., Lowell, Mass.
United States Bunting Co., Lowell, Mass.

## 1177— Buoys (Gas)

Safety Car Heating & Lighting Co. ("Pintsch"), 2 Rector, New York

## Buoys (Life)

(See Life Preservers)

## 1178— Buoys (Mooring)

American Gas Accumulator Co., 5 Beekman, New York
Armstrong Cork Co., Pittsburg, Pa.
Drein, Thos. & Sons, Wilmington, Del.
Marine Mfg. & Supply Co., 158 South, New York
Manitowoc Engineering Works, Manitowoc, Wis
Riter-Conley Mfg. Co., Pittsburg, Pa.

## 1179—Burial Cases & Vaults (Concrete)

Automatic Sealing Vault Co., Peru, Ind.
Egyptian Vault Co., Rockville, Ind.
Mead, F. J. ("Loresch"), Orange, N. J.

## 1180—Burial Cases & Vaults (Slate)

American Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Excelsior Slate Co., Pen Argyle, Pa.

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Hahn, Granville, Walnutport, Pa.
**Hamman Structural & Roofing Slate Co., Bangor, Pa.**
Hercules Slate Co., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
**National Slate Vault Co., Bangor, Pa.**
Peerless Slate Co., Delta, Pa.
Penna Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 255 E 138th, New York
Pittsburg Slate Co., N. S. Pittsburg, Pa.

## 1181—Burial Vaults (Steel)

American Steel Grave Vault Co., Galion, O.
Clark Grave Vault Co. (Burglar & Waterproof), Columbus, O.
Galion Metallic Vault Co., Galion, O.
Kelly Mfg. Co., Bucyrus, O.

## 1182— Burlaps

Bemis Bros. Bag Co., St. Louis, Mo.
Bemis-Indianapolis Bag Co., Indianapolis, Ind.
Chase, H. & L. (Importers), 223 State, Boston, Mass.
Cheever, John S. (Mfr. & Dealer), 275 Congress, Boston, Mass.
Chelsea Fibre Mills, 33 Union sq, New York; Factory: Brookiyn, N. Y.
Clapp, H. D. B. & Co. (Waste), S24 N American, Phila., Pa.
Davis, T. L. & Co. (Dealers), 110 State, Boston, Mass.
Grimond, J. & A. D. (Ltd.) (H. N. Gildea, Agent), (Jute Decorative & Bagging Burlaps), 309 B'way, New York
Gulf Bag Co., New Orleans, La.
Halsted, E. S. & Co., 64 Pearl, New York
Haskell, Edw. H. (Dealer), 176 Federal, Boston, Mass.
Hoffman-Corr Mfg. Co., 415 Market, Phila., Pa.
Kent, Percy Co., 90 Front, New York
Mente & Co., New Orleans, La.
Milwaukee Bag Co., Milwaukee, Wis.
Oriental Textile Mills, Houston, Tex.
Reach, Herman & Co. (Inc.), (Mfrs. & Importers), Peoria & Kinzie, Chicago, Ill.
Richards, Atkinson & Haserick (Importers), 152 Congress, Boston, Mass.
Richter Mfg. Co. (Plain, Decorated, etc.), Tenafly, N. J.
Royal Bag & Yarn Mfg. Co., Charleston, S. C.
Texas Bag & Fibre Co., Houston, Tex.
Thompson's, Samuel Nephew & Co., (Importers), 142 Duane, New York
**WALSH'S SONS & CO., Harrison, N. J.** (See adv. index, end of book)
Winne, F. W. & Son, 237 Market, Phila., Pa.
Young & Metzner, Long Island City, N. Y.

## 1183—Burners (Acetylene Gas)

Acetylene Apparatus Mfg. Co., 150 Michigan av, Chicago, Ill.
Acetylene Gas Illluminating Co., 405 Broome, New York
American Brass & Copper Co., 138 Lafayette, New York
American Acetylene Burner Co. ("Gem," "Schaffer," "Pearl," & Multiple), Hoosick Falls, N. Y.
American Lava Co. ("Alco"), Chattanooga, Tenn.
Brown, Frank P., 45 N 6th, Phila., Pa.
Carroll, J. Bruce ("Hahn," "Columbia," "Auto"), 217 W Illinois, Chicago, Ill.
Colt, J. B. Co., 69 Warren, New York
Crane, W. M. Co. ("Import," "Brays"), 16 W 32d, New York
Crescent Burner Mfg. Co. ("Crescent"), 380 2d av, New York
Davis Acetylene Co. ("Bray," "Davis"), Elkhart, Ind.
Daylight Acetylene Gas Co. ("Starr"), Louisville, Ky.
Dietz, R. E. Co., 61 Laight, New York
Drake Acetylene Burner & Supply Co., San Jose, Cal.
Eagle Generator Co. ("Eagle"), 1530 Pine, St. Louis, Mo.
Gas Tip & Self Lighter Co., 149 Church, New York
Gleason, E. P. Mfg. Co., 37 Murray, New York
Hauck Mfg. Co., 140 Cedar, New York
Iden & Co., 40 University pl, New York
Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
Kirchberger, M. & Co. ("Von Schwartz" Perfection, "Crescent"), 339 B'way, New York
Novelty Burner Co., Chattanooga, Tenn.
Starr Acetylene Gas Burner Co., Chattanooga, Tenn.
State Line Mfg. Co. ("Wonder," "Acme," "New Century," "Meteor"), Chattanooga, Tenn.
Steward, D. M. Mfg. Co. ("E. H.," "Steward's Dolan"), Chattanooga, Tenn.
United Metal Mfg. Co., 525 W 26th, New York
Williamson, R. & Co., 609 N Washington, Chicago, Ill.
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## Burners (Automobile)

(See Burners, Kerosene, Automobile; also Burners, Gasoline, Automobile)

## 1184—Burners (Brazing & Blast)

Best, W. N. & Son, 11 B'way, New York
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker" Process, for Burning Fuel Oil Under Low Pressure), Springfield, Mass. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. (Gas), 336 Frankfort av, N E, Cleveland, O. (See adv. index, end of book)
Turner Brass Works, Sycamore, Ill.

## 1185—Burners (Coal Dust)

**BARTLETT, C. O. & SNOW CO.** ("Triumph"), French st., Cleveland, O. (See adv. index & branch offices, end of book)

## 1185a—Burners (Coke Oven)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 1186—Burners (Electric Gas Lighting)

Bogart, A. L. Co. ("Bartholdi" Automatic), 123 Liberty, New York
Cleverly Electrical Works, 17 N 7th, Phila., Pa.
Electric Goods Mfg. Co. (Automatic Pendant), Boston, Mass.
Holtzer-Cabot Electric Co. (Automatic), Brookline, Mass.
Parke, Jno. Y. & Co. ("Jypco"), 127 N 7th, Phila., Pa.
Roberts, H. C. Electric Supply Co. ("Victor"), 905 Arch. Phila., Pa.
Stevens Mfg. Co., Woodbury, N. J.
Vallee, Garrett A. & Co., Land Title bldg., Phila., Pa.
Webb Gas Lighter Co. ("Webb"), Columbus, O.

## 1187— Burners (Fuel Gas)

Albany Foundry Co. ("Argand"), Albany, N.Y.
**AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J.** (See adv. index, end of book)
Anthony Co., 45 W 34th, New York
Combustion Utilities Co. (Brick, Cement & Lime), 60 Wall, New York
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
**KEMP, C. M. CO. (For All Purposes), 401 E Oliver, Baltimore, Md.** (See adv. index, end of book)
Mechanics' Supply Co. ("Kell"), Pittsburg, Pa.
**Parson Mfg. Co., 149 B'way, New York**
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W, Cleveland, Ohio.** (See adv. index, end of book)

## 1188— Burners (Fuel Oil)

American Equipment Co. ("Fox"), Norristown, Pa.
Anthony Co., 45 W 34th, New York
Best, W. N. & Son, 11 B'way, New York
Braun Corporation (For Assayers' Liquid Fuel Furnaces), Los Angeles, Cal.
Burns Hydro Carbon Burner Co., Fort Plain, N. Y.
Carr Fuel Oil Burner Co. (Water Cooled, for Open-Hearth & Regenerative Furnaces), Wheeling, W. Va.
Cox & Sons Co., Lafayette bldg., Phila., Pa.
Creaghead Engineering Co., Cincinnati, O.
**CROSSLEY MACHINE CO. ("Lee"),** State & Monmouth, Trenton, N. J. (See adv. index, end of book)
D. & M. Fuel Oil Co., Iola, Kans.
Eagle Foundry & Machine Co., Fort Scott, Kans.
Gearhart, A. W., Fresno, Cal.
**GILBERT & BARKER MFG. CO.** (For Burning Fuel Oil Under Low Pressure), Springfield, Mass. (See adv. index & branch offices, end of book)
Hammel Oil Burner Co., Los Angeles, Cal.
Hauck Mfg. Co., 140 Cedar, New York
Illinois Supply & Construction Co. ("Schur's, for Burning Brick, Clay Boilers, etc.), St. Louis, Mo.
Johnson, S. T. Co. ("Johnson" Low Pressure Air System), San Francisco, Cal.
Lassoe, V. F., S Bridge, New York
McCallen Mfg. Co., Sharon, Pa.
Mechanics' Supply Co. ("Kell"), Pittsburg, Pa.
Mircs Fuel-Oil Equipment Co., Norfolk, Va.
Monarch Engineering & Mfg. Co., Baltimore, Md.
National Supply Co., 416 W Indiana, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Parson Mfg. Co., 149 B'way, New York
**PETROLEUM IRON WORKS CO.** ("The Gem," for Crude Oil Under Boilers), Sharon, Pa. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO. (For** Crude Oil Under Boilers), 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Rogers, Jno. M. Works, Gloucester City, N. J.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
**TATE, JONES & CO., (Inc.), ("Kirkwood" for Boilers, Locomotives, Furnaces, Forges, Glass House Work, Open-Hearth, etc.), Empire bldg., Pittsburg, Pa.** (See adv. index, end of book)
Western Railway & Mill Supply Co. ("Van Boden," "Ingles," for Locomotive, Marine & Stationary Boilers), San Francisco, Cal.
Witt, G. E. Co., Inc. ("Little Giant"), 848 Howard, San Francisco, Cal.

## 1189—Burners (Furnace Gas)

Creaghead Engineering Co., Cincinnati, O.
Monarch Engineering & Mfg. Co., Baltimore, Md.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Standard Heating & Radiator Co., Pittsburg, Pa.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.) Empire** bldg, Pittsburg, Pa. (See adv. index, end of book)

## Burners (Garbage)

(See Heaters, Water, Garbage Burning)

## 1191—Burners (Gas, Inverted)

**KEMP, C. M. CO., 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)
McDowell Mfg. Co., Pittsburg, Pa.

## 1192— Burners (Gas, Self-Lighting)

Gleason, E. P. Mfg. Co. ("Gem," "Economic" & "Matchless"), 37 Murray, New York
Matchless Mfg. Co., 31 Washington, Brooklyn, N. Y.

## 1193—Burners (Gasoline, Automobile)

Auto Supply Co., 1789 B'way, New York
Carroll, J. Bruce, 217 W Illinois, Chicago, Ill.
Dangler Stove Co., Cleveland, O.
Forg, Peter, Somerville, Mass.
Janney, Steinmetz & Co., Central Trust bldg., Phila., Pa.
Locke Regulator Co., Salem, O.

## 1194—Burners (Gasoline Engine)

Turner Brass Works, Sycamore, Ill.

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## 1195—Burners (Gasoline Gas)

Best Light Co., Canton, O.
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
Incandescent Light & Stove Co. ("Stubbs"), Cincinnati, O.
Kelly Handle Bar Co., Cleveland, O.
Merkel, Herman, 511 Elm, St. Louis, Mo.
Planet Mfg. Co., 203 Pine, St. Louis, Mo.
Providence Gas Burner Co., Providence, R. I.
Sun Vapor Street Light Co., Canton, O.
Tirrill's Gas Machine Lighting Co., 509 5th av, New York
Turner Brass Works, Sycamore, Ill.

## 1196—Burners (Hot Blast, Gas Stove)

Weimer Machine Works Co. ("Weimer"), Lebanon, Pa.

## 1197—Burners (Hydro-Carbon)

Best, W. N. & Son, 11 B'way, New York
Braun Corp. ("Cary"), Los Angeles, Cal.
Burns Hydro Carbon Burner Co., Fort Plain, N. Y.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Denver Fire Clay Co. ("Case"), Denver, Colo.
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
Hauck Mfg. Co., 140 Cedar, New York
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**TATE, JONES & CO. (Inc.) Empire** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 1198—Burners (Incandescent Gas)

Block Light Co., Youngstown, O.
Crane, W. M. Co. ("Gem" Bi-Pass), 16 W 32d, New York
**GILBERT & BARKER MFG. CO.** ("Springfield"), Springfield, Mass. (See adv. index & branch offices, end of book)
Hipwell Mfg. Co. ("Pittsburg"), Pittsburg, Pa.
Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
**KEMP, C. M. CO., 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)
Kern Burner Co., 88 Warren, New York
Iron City Stamping & Mfg. Co. (Upright & "Venus" Inverted Light), Pittsburg, Pa.
Manhattan Brass Co., 338 E 28th, New York
Manhattan Screw & Stamping Works ("Royal"), 166 West End av, New York
Matchless Mfg. Co., 31 Washington, Brooklyn, N. Y.
Miller, Edw. & Co., Meriden, Conn.
Momand, S. S. Light Co., 305 Columbus av, New York
Pittsburg Lamp, Brass & Glass Co., Pittsburg, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rector Gas Lamp Co., 131 W 31st, New York
Solar Light Co., 381 Broome, New York
Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.
Turner Brass Works, Sycamore, Ill.
Unique Art Glass & Metal Co. ("Star"), 105 Vandeveer, Brooklyn, N. Y.
Welsbach Co. ("Universal," "Standard" & "Consol"), 1008 Filbert, Phila., Pa. Works, Gloucester, N. J.
Wiederhold Light Co., 70 Cortlandt, New York

## 1199—Burners (Japanning or Baking)

**AMERICAN GAS FURNACE CO. (Gas),** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)

## 1200 Burners (Kerosene, Automobile)

Ofeldt, F. W. & Son, Nyack, N. Y.

## 1201—Burners (Kerosene Oil)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hauck Mfg. Co., 140 Cedar, New York
Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rider-Ericsson Engine Co., 35 Warren, New York
Scovill Mfg. Co., Waterbury, Conn.
Turner Brass Works, Sycamore, Ill.
Waterbury Brass Goods Corp., Waterbury, Conn.

## 1202—Burners (Lamp)

Best Light Co., Canton, O.
Bing Burner Co. ("Bing"), Minneapolis, Minn.
Bristol Brass Co. (Kerosene), Bristol, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Electric Burner Co., Aurora, Ill.
Gottschalk, F. C. (Kerosene Incandescent), 97 Chambers, New York
Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Waterbury Brass Goods Corporation, Waterbury, Conn.
Wheeling Stamping Co., Wheeling, W. Va.

## 1203—Burners (Natural Gas)

Advance Mfg. Co., Erie, Pa.
American Stove Co. ("Quick Meal," "Reliable," "Jewel"), St. Louis, Mo.
Brown, Frank P., 45 N 6th, Phila., Pa.
Clough, Theo. (Est. of), Dobbs Ferry, N. Y.
Crane, W. M. Co. ("Gem" Self-Lighting), 16 W 32d, New York
Creaghead Engineering Co., Cincinnati, O.
Denver Fire Clay Co. ("Case"), Denver, Colo.
Enterprise Foundry Co., N S, Pittsburg, Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Hollands Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Kern Burner Co., 88 Warren, New York
Lawson Mfg. Co., Homestead, Pa.
Lord, L. L. Co. ("Victor"), Meadville, Pa.
McKenny & Waterbury, 181 Franklin, Boston, Mass.
Matchless Mfg. Co., 31 Washington, Brooklyn, N. Y.
Minneapolis Gas Fixture Co., Minneapolis, Minn.
Novelty Burner Co., Chattanooga, Tenn.
Odin Stove Mfg. Co., Erie, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
O'Rielly, M. J., Buffalo, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.

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**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
Stamford Gas Stove Co., Stamford, Conn.
Standard Heating & Radiator Co. ("Standard" for Hot Air, Steam & Hot Water Heating Boilers), Pittsburg, Pa.
State Line Mfg. Co., Chattanooga, Tenn.
Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.
Superior Mfg. Co., N S, Pittsburg, Pa.
Union Gas Burner Co., 367 Ellicott, Buffalo, N. Y.
Van Houten, E. J. S., 74 Park pl, New York
Wheeling Stove & Range Co., Wheeling, W. Va.
Williamson, R. & Co., 609 W Washington, Chicago, Ill.

## 1204–Burners (Natural Gas Fuel)

**OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa.** (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), ("Klein," "Kirkwood" for Fuel Under Boilers and for Furnaces, Kilns, Dryers, Welding, etc.), Pittsburg, Pa.** (See adv. index, end of book)

## 1205–Burners (Oil, for Furnaces, Boilers & Melting Tanks)

Best, W. N. & Son, 11 B'way, New York
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), Empire** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 1206– Burners (Oil, for Locomotive, Marine & Stationary Boilers)

**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), Empire** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 1207–Burners (Pyrites & Sulphur)

Bethlehem Foundry & Machine Co. (for Chemical Mfrs., etc.), South Bethlehem, Pa.
Larrabee, H. C. & Co. (For Chemical Mfrs.), Baltimore, Md.
Raquette Foundry & Supply Co., Massena, N. Y.

## 1208– Burners (Refuse)

Casey-Hedges Co., Chattanooga, Tenn.
Clark, W. J Co. ("Safety"), Salem, O.
Jackson-Church-Wilcox Co., Saginaw, Mich.
**MacKINNON BOILER & MACHINE Co.** (Sawmill Refuse), Bay City, Mich. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
Quinn & Co. ("Quinn," Flat Top Dutch Oven Furnace), Cincinnati, O.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
Shannon Mfg. Co. ("Incinerite," Refuse Destructor), 124 Lexington av, New York

## 1209–Burners (Rotary Sulphur)

Stebbins Engineering & Mfg. Co. ("Stebbins" Oxidizing), Watertown, N. Y.

## 1209a– Burners (Star)

**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)

## 1210– Burners (Tar)

Best, W. N. & Son, 11 B'way, New York
Parson Mfg. Co. ("Parson"), 149 B'way, New York
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)

## 1211–Burners (Turn-Down)

American Lava Co. ("Alco," Acetylene), Chattanooga, Tenn.

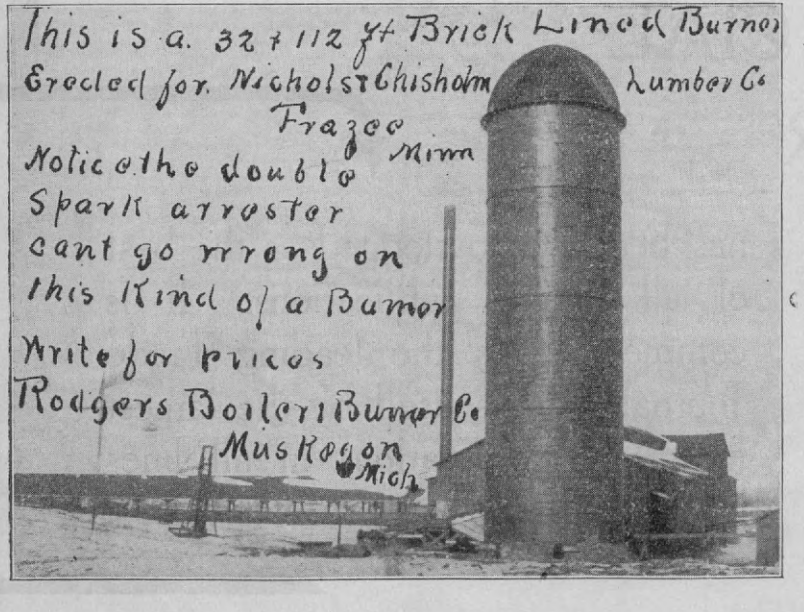
## 1212– Burners (Weed)

Commonwealth Steel Co. ("M. K. & T.," for Removing Weeds from Tracks), St. Louis, Mo.

## 1213– Burning Brands

Black, A. S., Cincinnati, O.
Gibson, A. C. Co., Buffalo, N. Y.
Hanson, C. H., 44 Clark, Chicago, Ill.


**RODGERS BOILER AND BURNER COMPANY**
**MUSKEGON, MICH.**





Illig & Hartmann, 211 Pine, St. Louis, Mo.
Mulhaupt, F. Jos., Lafayette, Ind.
Murdock, Jas., Jr. Co., Opera pl, Cincinnati, O.
Northwestern Stamp Works (Also Shingle Brands), St. Paul, Minn.
Parker, T. M., Hartford, Conn.
Sackmann, F. A. ("F-A-S"), Cleveland, O.
Schwerdtle Stamp Co., Bridgeport, Conn.
Stewart & Holihan (Brass), 201 B'way, New York
Stortz, John & Son, 210 Vine, Phila., Pa.
Vulcan Electric Heating Co. ("Vulcan," Electric), 540 W Jackson blvd, Chicago, Ill.
Wright, Gregory G. & Son, Cincinnati, O.

## 1214–Burnishing (Steel Ball Process)

**ABBOTT BALL CO. ("Abbott"), Hartford, Conn.** (See adv. index, end of book)

## 1215– Burrs (Riveting)

**BETTCHER MFG. CO., Clark av, at** C. C. C. & St. L. Ry, S. W., Cleveland, O. (See adv. index, end of book)

## 1216– Bushings

Aird, Alanson A. (Cast Iron, Radiator Bushings a Specialty), Watervliet, N. Y.
Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
American Pulley Co. (Metal, to Fit Any Shaft), 29th & Bristol, Phila., Pa.
**ARGUTO OILLESS BEARING CO.** ("Arguto" Oilless), 149 Berkley, Phila., Pa. (See adv. index, end of book)
Belknap Mfg. Co. (Brass), Bridgeport, Conn.
Brown Engineering Co. (Ring Oiling, Loose Pulley), Reading, Pa.
**CALDWELL, H. W. & SON CO.** (Brass for Pulleys, Sheaves, etc.), 17th & Western av, Chicago, Ill. (See adv. index, end of book)
**CONTINENTAL FIBRE CO. (Vulcanized Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Darling Pump & Mfg. Co. (Ltd.) (Brass), Williamsport, Pa.
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)
Edna Brass Mfg. Co. (Brass), Cincinnati, O.
General Fire Extinguisher Co., Providence, R. I.
Graphite Lubricating Co. (Graphite & Bronze), Boundbrook, N. J.
Hamlin & Emery Brass Co. (Brass, Flush & Hexagon), 26 Island, Rox, Boston, Mass.
Kokomo Brass Works (Brass Soldering), Kokomo, Ind.
More-Jones Brass & Metal Co., St. Louis, Mo.
National Fibre & Insulation Co. (Fibre), Yorklyn, Del.
National Tube Co. (Cast & Malleable Iron, Eccentric), Pittsburg, Pa.
Newbury, J. H., Goshen, N. Y.
**NORTH AMERICAN METALINE CO.** Loose Pulley, Oilless), 4 West av, Long Island City, N. Y. (See adv. index, end of book)
Ohio Brass Foundry Co., Cincinnati, O.
**PARKER, J. C. & SONS FIBRE CO.** (Vulcanized Fibre), New Castle, Del. (See adv. index, end of book)
Quride Co. ("Quride"), Syracuse, N. Y.
Pressed Steel Mfg. Co. (Ball Bearing), Land Title bldg, Phila., Pa.
Reeves, Paul S. & Son (Brass, Bronze & Phosphor Bronze), 1415 Catherine, Phila., Pa.
Sherman, H. B. Mfg. Co. (Hose), Battle Creek, Mich.
**UNION ELEVATOR & MACHINE CO.,** (Self Lubricating Graphite Bronze), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Universal Tool Co., Springfield, Mass.
Waltham Screw Co. (Brass, etc.), Waltham, Mass.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1217–Bushings (Adjustable Pipe)

**ARMSTRONG MFG. CO. ("Bard"),** 278 Knowlton, Bridgeport, Conn. (See adv. index & branch offices, end of book)

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## 1217a—Bushings ("Arguto")

**ARGUTO OILLESS BEARING CO.,** Wayne Junction, Phila., Pa. (See adv. index, end of book)

## 1218— Bushings (Brass)

(See also Bushings)

Kelly & Jones Co. (Malleable Iron, etc.), Pittsburg, Pa.

## 1219— Bushings (Bronze)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Le Grand Bronze Co., Bayonne, N. J.

**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index, end of book)

**NORTH AMERICAN METALINE CO.,** 4 West av, Long Island City, N. Y. (See adv. index, end of book)

## 1219a—Bushings (Conduit)

(See Bushings, Outlet & Locknut)

## 1220—Bushings (Expansion)

Brown & Sharpe Mfg. Co., Providence, R. I.

## 1221— Bushings (Glass)

Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.

## 1222—Bushings (Graphite)

Graphite Lubricating Co., Bound Brook, N. J.
International Acheson Graphite Co., Niagara, Falls, N. Y.

## Bushings (Hard Fibre)

(See Fibre, Hard)

## 1222a—Bushings (Metaline)

**NORTH AMERICAN METALINE CO.,** 4 West av, Long Island City, N. Y. (See adv. index, end of book)

## 1223—Bushings (Outlet & Locknut)

Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Appleton Electric Co., 212 N Jefferson, Chicago, Ill.
Belcher & Loomis Hdw. Co. ("Boss"), Providence, R. I.
Bonnell, W. A. Co., 132 Church, New York
Bossert Co. ("Monitor," "Ericskon"), Utica, N. Y.
Buchanan, J. F. & Co., 1228 Race, Phila., Pa.
Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.
Fairmount Elec. Mfg. Co. ("Bendhicks"), 2203 Pearl, Phila., Pa.
Federal Electric Co., 640 W Lake, Chicago, Ill.
Fox Mfg. Co., Brooklyn, Wis.
Gillette-Vibber Co., New London, Conn.
Grabler Mfg. Co., Cleveland, O.
Gwilliam Supply Co., 1339 Ridge av, Phila., Pa.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Leveridge, Chas. W. ("L. & L."), 183 Greenwich, New York
Pass & Seymour, Solvay, N. Y.
Pratt Chuck Co., Frankfort, N. Y.
Sprague Elec. Co., 539 W 34th, New York.
Star Metal Box Co., 201 Fulton, New York
Steel City Elec. Co. ("Fullman," "Star," "Flexbox"), Pittsburg, Pa.
Thomas & Betts Co., 299 B'way, New York
Troy Electrical Co. ("Teco"), Troy, N. Y.

## 1224— Bushings (Pipe)

**LUNKENHEIMER CO. (Brass),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 1225—Bushings (Porcelain)

**(See also Porcelain Specialties, Electrical, Mechanical, Etc.)**

**Electric Porcelain & Mfg. Co.,** Trenton, N. J.
**Federal Electric Co.** (Clamp), Lake & Desplaines, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Pass & Seymour, Solvay, N. Y.
Pittsburg High Voltage Insulator Co., Derry, Pa.
Thomas, R. & Sons Co., East Liverpool, O.

## Bushings (Rawhide)

(See Gears & Pinions, Rawhide)

## 1226— Bushings (Reaming)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 1227—Bushings (Roller Bearing)

Hyatt Roller Bearing Co., Harrison, N. J.
Jackson, J. S. & Son, Bath, Me.
Torrey Roller Bushing Works, Bath, Me.

## Bushings (Rubber)

(See Rubber Manufacturers, Mechanical)

## 1228— Bushings (Socket)

Arrow Electric Co., Hartford, Conn.
Auburn Button Works, Auburn, N. Y.
Dickenson Mfg. Co., Springfield, Mass.
Federal Electric Co., 640 W Lake, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hubbell, Harvey, Bridgeport, Conn.
**JOHNS, H. W.-MANVILLE CO. ("Electrobestos"),** 100 William, New York. (See adv. index & branch offices, end of book)
Scranton Button Co. (Socket & Plain), Scranton, Pa.
Siemon Hard Rubber Corporation, Bridgeport, Conn.
Stewart, Frank H. Electric Co., 35 N 7th, Phila., Pa.

## 1229—Bushings (Trolley Wheel)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Eureka Tempered Copper Works, North East, Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Graphite Lubricating Co., Boundbrook, N. J.
Ives, H. B. Co. ("New Haven"), New Haven, Conn
**NUTTALL, R. D. CO., Fayette & Garrison** pl., Pittsburg, Pa. (See adv. index, end of book)
Torrey Roller Bushing Works, Bath, Me.
United Copper Foundry Co. (Graphite), Boston, Mass.

## Butter Workers

(See Dairy Apparatus & Supplies)

## 1230—Butterises (Blacksmiths')

Germantown Tool Works, Gtn., Phila., Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Sargent & Co., New Haven, Conn.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 1231— Button Mfrs.

Akron Mfg. Co., Akron, N. Y.
American Pearl Button Co. (Pearl), Washington, Iowa
Automatic Button Co. (Pearl), Muscatine, Ia.
Ball & Socket Mfg. Co., West Cheshire, Conn.
Chalmers, Harvey & Son (Pearl), Amsterdam, N. Y.
Davenport Pearl Button Co. (Pearl, etc.), Davenport, Ia.
Elk Pearl Button Co. (Pearl), Amsterdam, N.Y.
Elmwood Button Co. (Wood), Bridgeuport, Conn.
German-American Button Co., Rochester, N. Y.
Griffin Button Co. (Horn), Shelton, Conn.
Hampshire Pearl Button Co. (Pearl), Amsterdam, N. Y.
**Havell Mfg. Co.** (Steel & Fancy), Newark, N. J.
Hawkeye Pearl Button Co. (Pearl), Muscatine, Ia.
Haydenville Button Co., Haydenville, Conn.
Illinois Button Co., Quincy, Ill.
International Button Co., Rochester, N. Y.
Iroquois Pearl Button Co. (Pearl), Amsterdam, N. Y.
Kuper & Folmer (Pearl), West New York, N. J.
**Lane Mfg. Co. (Metal), Waterbury, Conn.**
M. B. S. Button Co., Rochester, N. Y.
Manchester Pearl Button Co. (Pearl), Amsterdam, N. Y.
Masinda, Wm. (Pearl), West Willington, Conn.
Montgomery Pearl Button Co. (Pearl), Amsterdam, N. Y.
**Morgan & Wright, Inc.** (Rubber, "M. & W."), Detroit, Mich.
Morley Button Mfg. Co., Portsmouth, N. H.
Nord-Buffum Pearl Button Co. (Pearl), Louisiana, Mo.
Ontario Button Co. (Pearl, etc.), Utica, N. Y.
Patent Button Co., Waterbury, Conn.
Platt Bros. Co. (Metal), Waterbury, Conn.
Rochester Button Co., Rochester, N. Y.
Rockport Pearl Button Co. (Pearl), Amsterdam, N. Y.
Saugatuck Mfg. Co., Saugatuck, Conn.
Schoor, Samuel Co. (Pearl), West New York, N. J.
Scovill Mfg. Co. (Military, Livery, Railroad, Silk & Dress, etc.), Waterbury, Conn.
Scranton Button Co., Scranton, Pa.
Smith, E. F. & Son, Union City, Conn.
Steel & Johnson Mfg. Co. (Metal), Waterbury, Conn.
Tri-City Button Co., Davenport, Ia.
Valley Button Co., Quincy, Ill.
Vigilant Button Works (Pearl), Taunton, Mass.
Warsaw Button Co., Warsaw, N. Y.
Waterbury Button Co. (Military & Metal, Pearl, Ivory, Silk, Fancy Metal, etc.),
White, L. C. Co. (Metal, etc.), Waterbury, Conn.

## 1232— Buttoners (Glove & Shoe)

Applebee & Neuman (Shoe), 100 Grand, New York
Cassady-Fairbanks Mfg. Co., 6106 Lasalle, Chicago, Ill.
Havell Mfg. Co. (Glove), Newark, N. J.
Novelty Cutlery Co., Canton, O.
Ross, Jos., Jr. & Co. (Glove), Irvington, N. J.

## 1233— Buttons (Door)

**ARCADE MFG. CO. (Cast Iron), Freeport,** Ill. (See adv. index, end of book)
Brass Goods Mfg. Co., 280 Nevins, Brooklyn, N. Y.
Corbin, P. & F. Co., New Britain, Conn.
Hardware Supply Co., Grand Rapids, Mich.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Ney Mfg. Co., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co., Freeport, Ill.
Watrous, E. L. Mfg. Co., Des Moines, Ia.
Yale & Towne Mfg. Co., 9 Murray, New York

## 1234— Buttons (Shoe)

German-American Button Co., Rochester, N. Y.
Rhodes, M. M. & Sons Co., Taunton, Mass.
Waterbury Button Co., Waterbury, Conn.
Whitehead & Hoag Co., Newark, N. J.

## 1235— Buttons (Stair)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 1235a— Buttons (Uniform)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)

## Butts (Brass)

(See Hinges, Butt)

## 1236—By-Product Plants (Designers & Erectors)

**American Coke & Gas Construction Co.** (By Products Coke Ovens), 17 Battery pl, New York
United Machinery & Engineering Co., Commonwealth bldg, Phila., Pa.

## Cabinet Work for Buildings

(See Interior Hardwood Work)

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## Cabinet Work (Metallic)
(See Bank & Office Fixtures, Metallic)

## Cabinets (Blue Print)
(See Blue Print Filing Cabinets)

## 1237— Cabinets (Bath)
World Mfg. Co., Cincinnati, O.

## 1238—Cabinets (Catalogue)
Leonard Mfg. Co., Grand Rapids, Mich.

## 1239—Cabinets (Clothing)
Builders Supply Co. ("Ideal"), Joliet, Ill.
Grand Rapids Show Case Co. (Sectional), Grand Rapids, Mich.
Heimann-Miller Mfg. Co. ("Missing Link"), 1404 Washington av, St. Louis, Mo
Welch Mfg. Co. (Sectional), Grand Rapids, Mich.

## 1240—Cabinets (Drill, Steel)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)

## 1241—Cabinets (Electrotype)
Hamilton Mfg. Co., Two Rivers, Wis.
Leonard Mfg. Co., Grand Rapids, Mich.
Tubbs Mfg. Co., Ludington, Mich.

## 1242—Cabinets (Ice Cream)
Bishop-Babcock-Becker Co., 49th & Hamilton av, Cleveland, O.
Chocolate Cooler Co. ("Grand Rapids"), Grand Rapids, Mich.
Doering, C. & Son (Inc.), 1376 Lake, Chicago, Ill.
Nelson, C. Mfg. Co., St. Louis, Mo.

## 1243— Cabinets (Kitchen)
Hoosier Mfg. Co. ("Hoosier"), New Castle, Ind.
I. X. L. Furniture Co., Goshen, Ind.

## 1244— Cabinets (Oil)
Bowser, S. F. & Co. (Inc.) (Roll Top), Fort Wayne, Ind.
Franklin Oil Filter Co. ("Franklin"), St. Louis, Mo.
New York Oil Cabinet Co. ("Wiley"), 221 Front, New York
Perfection Oil Tank Co., Syracuse, N. Y.
Wadsworth, C. J., Cleveland, O.
Welch Mfg. Co. (Sectional), Grand Rapids, Mich.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 1245—Cabinets (Panel Board, Metal)
Bissell, F. Co. ("Security"), Toledo, O.
Bonnell, W. A. Co., 132 Church, New York
Burns, James F., 715 Cherry, Phila., Pa.
Cleveland Switchboard & Electric Co., Cleveland, O.
Columbia Metal Box Co., 226 E 144th, New York
Connecticut Electric Mfg. Co., Bantam, Conn.
Crouse-Hinds Co. (Also Wood), Syracuse, N. Y.
Cuthbert Electrical Mfg. Co., 725 Fulton, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hinsdill Electric Company, Troy, N. Y.
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Metropolitan Switchboard Co., Long Island City, N. Y.
Mutual Electric & Machine Co., Wheeling, W. Va.
Newgard, Henry & Co. ("Newgard"), 953 Wash'n boul, Chicago, Ill.
Paiste, H. T. Co. ("Le Manquais"), 32d & Arch, Phila., Pa.
Pike Electric Mfg. Co. ("Builtrite"), Minneapolis, Minn.
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Renim Specialty Co., 37 Parkman, Br., Boston, Mass.
Troy Electrical Co., Troy, N. Y.
Trumbull Electric Mfg. Co., Plainville, Conn.
Wesco Supply Co., St. Louis, Mo.
Wurdack, Wm. Electric Mfg. Co., St. Louis, Mo.

## 1246— Cabinets (Syrup)
Bishop-Babcock-Becker Co., Cleveland, O.

## 1247—Cabinets (Toilet Paper)
A. P. W. Paper Co. ("The Onliwon"), Albany, N. Y.

## 1248—Cabinets (Tool, Steel)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)

## Cabinets & Filing Cases (Metallic)
(See Filing Cabinets & Devices, with the words Metallic or Steel following their names)

## 1249— Cable (Ignition)
Boston Insulated Wire & Cable Co., Boston, Mass.
Champion, Albert Co., 36 Whittier, Rox., Boston, Mass.
Goodson Electric Ignition Co. (Insulated Wire), 94 Point, Providence, R. I.
Herz & Co., 295 Lafayette, New York
Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
Lemke Electric Co., Milwaukee, Wis.
Mosler, A. R. & Co., Inc., 163 W 29th, New York
**OKONITE CO. (Ltd.), 253 B'way, New** York. (See adv. index, end of book)
Packard Electric Co., Warren, O.
Post & Lester Co., Hartford, Conn.
Shain, Chas. D., 1926 B'way, New York
Splitdorf, C. F. ("Splitdorf"), 261 Walton av, New York

## Cable Railways
(See Wire Rope Tramways)

## 1249a—Cables (Car Central)
**KERITE INSULATED WIRE & CA**ble Co., 30 Church, New York. (See adv. index, end of book)

## 1250—Cables (Drilling, Manila)
**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York. (See adv. index, end of book)
**LESCHEN, A. & SONS ROPE CO.** (Wire & Manila), 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**NEW YORK CORDAGE CO. ("Nycord"),** 85 Wall, New York. (See adv. index, end of book)

## 1250a— Cables (Ignition)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 1251—Cables (Lamp Board)
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)

## 1252—Cables (Mining Machine)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

## Cables (Rubber Covered)
(See Wire, Rubber Covered)

## 1252a—Cables (Skidding)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## 1253—Cables (Submarine & Lead Encased)
(See also Wire, Insulated)
American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlantic Insulated Wire & Cable Co., 120 Liberty, New York
Bay State Insulated Wire & Cable Co., Hyde Park, Mass
Bishop Gutta Percha Co., 422 E 25th, New
Diamond Rubber Co., Akron, O. York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Habirshaw Wire Co., 253 B'way, New York
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
Moore, Alfred F., 200 N 3d, Phila., Pa.
National Conduit & Cable Co., 41 Park row, New York
National India Rubber Co., Bristol, R. I.
New York Insulated Wire Co., 114 Liberty, New York
**OKONITE CO. (Ltd.), 253 B'way, New** York. (See adv. index, end of book)
Simplex Electrical Co., Boston, Mass.

## 1254—Cables (Suspension Bridge)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J.. (See adv. index & branch offices, end of book)

## 1255—Cables (Underground)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**KERITE INSULATED WIRE & CABLE** Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
**OKONITE CO. (Ltd.), 253 B'way, New** York. (See adv. index, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J.. (See adv. index & branch offices, end of book)

## Cables (Weatherproof)
(See Wire, Weatherproof)

## Cableways (Aerial)
(See Wire Rope Tramways)

## 1256—Cableways (Logging)
**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
**LESCHEN, A. & SONS ROPE CO.** (Overhead), 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. **(See adv. index & branch offices, end of book)**

## 1257—Cableways (Sewer & Trench Excavating)
**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
New York Cableway & Engineering Co., 90 West, New York

## Cableways (Wire Rope)
(See Wire Rope Tramways)

## 1258— Cadgers (Mining)
Gem Mfg. Co. ("Gem" Steel, for Miners' Oil Reserve Supply), Pittsburg, Pa.

## 1259— Cadmium
Grasselli Chemical Co. (Pure in Sticks & Cadmium Sulphide), The Arcade, Cleveland, O., & 60 Wall, New York

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## 1260—Cages (Bird, Animal, Etc.)

Dufur & Co. (Brass Enameled Bird; also Wooden), Baltimore, Md.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Empire Cooping Co. (Cat, Pigeon, Poultry), Fultonville, N. Y.
Glen Mfg. Co. (Bird, etc.), Ellwood City, Pa.
Heinz & Munschauer (Bird, Squirrel, etc.), Buffalo, N. Y.
Hendryx, Andrew B. Co. (Bird, Parrot, Squirrel), New Haven, Conn.
Lindeman, O. & Co. (Bird, Mouse, Parrot, Squirrel), 35 Wooster, New York
Maxwell, John (Bird, Parrot, Squirrel), 259 Pearl, New York
**MEYERS, F. J. MFG. CO. (Bird,** Squirrel, Wooden), Hamilton, O. (See adv. index, end of book)
Osborn Mfg. Co. (Brass, Silver Plated & Solid Bronze Bird), 685 Hudson, New York
Page Woven Wire Fence Co. (Bear, Bird, Monkey), Adrian, Mich.
Phillips & Buttorff Mfg. Co. (Squirrel), Nashville, Tenn.
Root, A. J. Co. (Queen Bee), Medina, O.

## 1261— Cages, (Mine)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Bartlett, A. F. & Co., Saginaw, Mich.
**CENTRAL IRON WORKS (Self-**Dumping Coal), Quincy, Ill. (See adv. index, end of book)
Chalmers & Williams, Chicago Heights, Ill.
Connellsville Machine & Car Co., Connellsville, Pa.
Danville Fdry. & Mach. Co. (Self-Dumping & Ordinary), Danville, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Engineering Works Co., Denver, Colo.
Duncan Foundry & Machine Works (Self-Dumping), Alton, Ill.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Eagle Iron Works ("Olsen's" Self-Dumping), Des Moines, Ia.
Ellison, Wm. & Sons Mfg. Co., St. Louis, Mo.
Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.
Hendy, Joshua Iron Works, San Francisco, Cal.
Herzler & Henninger Machine Works (Automatic & Plain), Belleville, Ill.
Imperial Iron Works, Duluth, Minn.
**JEFFREY MFG. CO. (Drop Rail), Colum-**bus, Ohio. (See adv. index & branch offices, end of book)
Lake Shore Engine Works, Marquette, Mich.
Leyner, J. Geo., Engineering Works Co., Littleton, Col
Litchfield Fdry. & Machine Co. (Self-Dumping & Ordinary), Litchfield, Ill.
Lucas, A. & Sons (Self-Dumping), Peoria, Ill.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end
Marine Iron Co., Bay City, Mich. of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Mineral Ridge Mfg. Co., Mineral Ridge, O.
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
Nelsonville Foundry & Machine Co., Nelsonville, O.
Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
**OTIS ELEVATOR CO., 17 Battery pl.** New York. (See adv. index & branch offices, end of book)
Ottumwa Box Car Loader Co., Ottumwa, Ia.
Ottumwa Iron Works. Ottumwa, Ia.
Prox. Frank Co., Terre Haute, Ind.
Scottdale Foundry & Machine Co. (Automatic), Scottdale, Pa.
Stine, S. B. (Automatic), Osceola Mills, Pa.
Union Iron Works Co., San Francisco, Cal.
Union Iron Works (Inc.), Spokane, Wash.
Vulcan Iron Works, Wilkes-Barre, Pa.
Wellman-Seaver-Morgan Co., Cleveland, O.
What Cheer Tool Co. ("Walker" Automatic Reversible), What Cheer, Ia.

## Cages (Squirrel)

(See Cages, Bird, Animal, Etc.)

## 1262— Caisson Foundations

(See also Bridge Foundations)

Chicago Dock & Canal Co., 34 Clark, Chicago,
Clark & Co., 225 5th av, New York. Ill.
Cranford Paving Co., Washington, D. C.
Cullen-Friestedt Co., Tribune bldg., Chicago, Ill.
Foundation Co. (Engineers & Contractors, Pneumatic, etc.), 115 B'way, New York
Gahagan, Walter H., 189 Montague, Brooklyn, N. Y.
Great Lakes Dredge & Dock Co., 138 Washington, Chicago, Ill
Houston, C. B. & Co., Franklin Bank bldg,
Huebner, J. A., Baltimore, Md. Phila., Pa.
McMullen, Arthur & Co., 149 B'way, New York
Missouri Valley Bridge & Iron Works (A. J. Tullock, Prop.), Leavenworth, Kan.
O'Rourke Engineering Construction Co., 345 5th av, New York
Simplex Foundation Co., 3400 Disston, Phila., Pa.
Stebbings, W. L., Monadnock blk, Chicago, Ill.
Steers, Henry, 17 Battery pl., New York
Sutter, Jno. H., 108 La Salle, Chicago, Ill.
United Engineering & Cont. Co., 17 W 42nd, New York

## 1263—Caissons (Cast Iron)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Builders' Iron Foundry, Providence, R. I.

## 1264—Caissons (Sheet Steel)

Aurora Boiler Works (Inc.), Aurora, Ill.
Coatesville Boiler Wks. (Steel), Coatesville, Pa.
Cockburn Co., Jersey City, N. J.
East Jersey Pipe Co., Paterson, N. J., & 50 Church, New York
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO., ALLIANCE, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., 56 Water, Pittsburg, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.

## 1265— Caissons (Wood)

**BALTIMORE COOPERAGE CO., c** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 1265a— Calcimines

**FOX, M. EWING & CO. ("Muralite"** & "Calcitine"), 240 E 136th, New York. (See adv. under Kalsomine Mfrs.)

## 1266—Calcium Acid Phosphate

Sholes, Chas. E. Co., 164 Front, New York

## 1267— Calcium Carbide

American Carbolite Co., Duluth, Minn.
Union Carbide Co., 79 Wall, New York; Works: Niagara Falls, N. Y., & Sault Sainte Marie, Mich.

## Calcium Chloride

(See Chloride of Calcium)

## 1268— Calcium Cyananied

American Cyananied Co., Baltimore, Md.

## 1269— Calipers

(See also Gauges. Dividers, Caliper; also Rules, Caliper; also Squares, Caliper; also Micrometers; also Spherometers)

Athol Machine Co., Athol, Mass.
Billings & Spencer Co., Hartford, Conn.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stevens Co., Pine Meadow, Conn.
Davis Mfg. Co. (Tubular Micrometer), Milwaukee, Wis.
Eagan, Thos. F., Worcester, Mass.
Johnson, Wm. (Hedenberg Works), (Registering, Double, Navy, etc.), Newark, N. J.
Kraeuter & Co. (Register, Outside, Navy, etc.), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Massachusetts Tool Co. (Firm Joint), Greenfield, Mass.
Peck, W. A., New Haven, Conn.
Pratt & Whitney Co., Hartford, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Slocomb, J. T. Co., Providence, R. I.
Smith, E. G. Co. ("Columbia"), Columbia, Pa.
Smith, H. B. Machine Co. (Chisel, for Hand Turning), Smithville, N. J.
**STARRETT, L. S. CO. ("Fay"), Athol,** Mass. (See adv. index & branch offices, end of book)
Union Caliper Co., Orange, Mass.
Welles, Fred A. (Adjustable, etc.), Waukesha, Wis.

## 1270— Calipers (Beam)

Athol Machine Co., Athol. Mass.
Billings & Spencer Co., Hartford, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**Smith, E. G. Co. (Graduated), Columbia, Pa.**

## 1271—Calipers (Gear Tooth)

Brown & Sharpe Mfg. Co., Providence, R. I.

## 1272— Calipers (Log)

Humphrey Machine Co. (Decimal), Keene, N. H.
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.

## Calipers (Micrometer)

(See Micrometers)

## 1273— Calipers (Spring)

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Massachusetts Tool Co., Greenfield, Mass.
**STARRETT, L. S. CO. ("Fay"), Athol,** Mass. (See adv. index & branch offices, end of book)

## 1274— Calipers (Vernier)

Brown & Sharpe Mfg. Co., Providence, R. I.
Smith, E. G. Co. ("The Columbia" Metric), Columbia Pa.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 1275— Calipers (Winged)

Bemis & Call Hardware & Tool Co., Springfield, Mass.
Johnson, Wm. (Hedenberg Works) (Inside & Outside), Newark, N. J.
Johnson, Wm. (Hedenberg Works) (Inside & Outside), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.

## 1276— Calorimeters

Bausch & Lomb Optical Co., Rochester, N. Y.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Elmer & Amend, 205 3d av, New York
Ellison, Lewis M. ("Ellison" Throttling-Evaporating), 6238 Princeton av, Chicago, Ill.
Gaertner, Wm. & Co. ("Mahler," Bomb Type, etc.), 5349 Lake av, Chicago, Ill.
Improved Equipment Co. ("Doherty" Gas), 60 Wall, New York
Sarco Fuel Saving & Engineering Co., 90 West, New York
Sargent Steam Meter Co. ("Sargent" Gas), 152 Lake, Chicago, Ill.
**SCHAEFFER & BUDENBERG MFG.** Co. ("Carpenter" Throttling, Separating & Coal), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**SCOTT, C. U. (Jobber), Davenport,** Ia. (See adv. index, end of book)
Standard Calorimeter Co. ("Parr Standard"), East Moline, Ill.
Taylor Instrument Co.'s ("Rosenhain," Fuel), Rochester, N. Y.
Western Meter Co. ("Perfection"), Davenport, Ia.

## 1277— Cambolts

General Specialty Co. ("B. & S."), 24 S 7th, Philadelphia, Pa.

## 1278— Cameras

Ansco Co., Binghamton, N. Y.
Anthony, E. & H. T. Co., New York
Bauer, Max, Jersey City, N. J.
Bausch & Lamb Optical Co., Rochester, N. Y.
Eastman Kodak Co., Rochester, N. Y.
Gennert, G., 24 E 13th, New York, N. Y.
Gundlach Manhattan Optical Co. ("Korona"), Rochester, N. Y.

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Ingersoll, Robt. H. & Bro., 51 Maiden la, New York
Multiscope & Film Co., Burlington, Wis.
Mountford, W. S., 100 Maiden la, New York
Obrig Camera Co., 147 Fulton, New York
Seneca Camera Mfg. Co., Rochester, N. Y.
Vitex Camera Co., Springfield, Mass.
Wing, S. & Co., 100 Cambridge, Boston, Mass.

## 1278a—Camp Cooking Outfits & Stoves

**WILSON, F. CORTEZ & CO.,** 232 Lake, Chicago, Ill. (See adv. index, end of book)

## 1279—Camp Stools & Chairs

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Gold Medal Camp Furniture Mfg. Co., Racine, Wis.
McKinnon Dash Co. (Folding), Buffalo, N. Y.
**STANLEY WORKS ("Stanley" Folding** Camp Stool), New Britain, Conn. (See adv. index & branch offices, end of book)
Troy Carriage Sun Shade Co. ("Troy," Folding Camp Stool), Troy, O.

## 1280— Camphor

American Camphor Refining Co. (Refined), Boston, Mass.
Baker, H. J. & Bro. (Refined), 100 William, New York
Barrett Mfg. Co., Phila., Pa.
Cresol Chemical Co. (Oriental Rice, etc.), 8 Van Buren, Brooklyn, N. Y.
Ferguson Bros., 109 Chestnut, Phila., Pa.
Johnson & Johnson (Refined), New Brunswick, N. J.
Jones, E. F. Chemical Co., 51 Jay, New York
Lehn & Fink (Japanese), 120 William, New York
Mallinckrodt Chemical Works (Refined), St. Louis, Mo.
Parke, Davis & Co. (Japanese), Detroit, Mich.
Pfizer, Chas. & Co. (Refined), 81 Maiden la, New York
Phillips, Chas. H. Chemical Co. (Refined), 128 Pearl, New York
Schieffelin & Co. (Refined), 170 William, New York

## 1281— Cams

Bilgram Machine Works, 1235 Spring Garden, Phila., Pa.
**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Chalmers & Williams ("New Blanton"), Chicago Heights, Ill.
Chester Steel Castings Co., Chester, Pa.
Chrome Steel Works (Canada Chrome Steel, Self-Locking), Chrome, N. J.
Denver Engineering Works Co. (Cam Shafts for Stamp Mills), Denver, Colo.
National Steel Casting Co., Montpelier, Ind.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Drop Forge Co. (Drop Forged), 358 W Indiana, Chicago, Ill.

## 1282— Candles (Coach)

Will & Bowmer Co., Syracuse, N. Y.

## 1283— Candles (Electric

Dow Portable Electric Co., Braintree, Mass.

## 1284— Candles (Mining)

Goodwin Mfg. Co., St. Louis, Mo.
Great Western Oil Co., Cleveland, O.
Schneider, E. & Co., 277 Dearborn, Chicago, Ill.
Standard Oil Co. ("Electric Light," "Granite," "Snowflake Granite"), 555 W 25th, New York
Will & Baumer Co., Syracuse, N. Y.

## 1285—Candles (Plumbers')

Emery Candle Co., Cincinnati, O.
Goodwin Mfg. Co., St. Louis, Mo.
Gross, A. & Co., 90 West, New York
Knapp Mfg. Co., 20 Warren, New York
St. Louis Candle & Wax Co., St. Louis, Mo.
Schaeffer Bros. & Powell Mfg. Co., St. Louis, Mo.
Schneider, E. & Co., 277 Dearborn, Chicago, Ill.
Standard Oil Co. ("Which Will Tin"), 555 W. 25th, New York
Will & Baumer Co., Syracuse, N. Y.

## 1286— Candles (Sulphur)

Seabury & Johnson, 59 Maiden la, New York

## 1287—Candlesticks (Colonial)

American Ring Co. (Brass), Waterbury, Conn.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Buffalo Mfg. Co., Buffalo, N. Y.
Elm City Brass & Rivet Co., Plainville, Conn.
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Reed & Prince Mfg. Co. (Solid Brass Candlesticks), Worcester, Mass.
Janusch Mfg. Co., 496 E 134th, New York
Rostand Mfg. Co., Milford, Conn.
**TURNER & SEYMOUR MFG. CO., Torrington,** Conn. (See adv. index, end of book)

## 1288—Candlesticks (Miners')

Ludlow-Saylor Wire Co., St. Louis, Mo.
Tower & Lyon Co., 95 Chambers, New York
Varney, N. E., Denver, Colo.

## 1289— Canisters

Castle, Wilmot Co. (Coffee), Rochester, N. Y.
Fernald Mfg. Co. (Tea, Coffee), North East, Pa.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hemp & Co., St. Louis, Mo.
Morgan & Cornell (Tea, Coffee, Grocers'), 211 Duane, New York
New York Stamping Co., Brooklyn, N. Y.
Republic Metalware Co. (Tea, Coffee), Buffalo, N. Y.
**ST. LOUIS PAPER CAN & TUBE CO.** (Dry Products), 3115 B'way, St. Louis, Mo. (See adv. index, end of book)

## 1290— Cannon (Yacht)

American & British Mfg. Co., Providence, R. I.
Barney & Berry, Springfield, Mass.
Brown, R. H. & Co., New Haven, Conn.
Naval Co. ("B. & H."), Newburgh, N. Y. & 126 Liberty, New York
Snow & Petrelli Mfg. Co., New Haven, Conn.

HENDRICKS COMMERCIAL

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

REGISTER

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## 1291– Canoes

(See also Motor Boat, Launch & Yacht Builders)

Carleton Canoe Co. (Birch Bark, Canvas Covered), Old Town, Me.
Crane Bros. (Linenoid Seamless), Westfield, Mass.
Detroit Boat Co. (Cedar & Canvas), Detroit, Mich.
Racine Boat Co. (Sailing, Paddling), Racine, Wis.
Rushton, J. H. (Sailing, Paddling), Canton, N. Y.

## 1291a– Canopies (Iron & Bronze)

Skaneateles Boat & Canoe Co. (Sailing, Paddling), Skaneateles, N. Y.

(See Marquees; also Awnings, Corrugated Steel)

## 1292–Canopies (Lawn or Umbrella Tents)

Troy Carriage Sun Shade Co. ("Trojan"), Troy, O.





"THE ARROW CAN"

Trade Mark Registered U. S. Patent Office

For Ashes and Garbage

SIX SIZES:
No. 01, 15 x 18;
No. 1, 15 x 24;
No. 2, 17 x 24;
No. 3, 19 x 24;
No. 10, 10 x 12;
No. 12, 12 x 12.

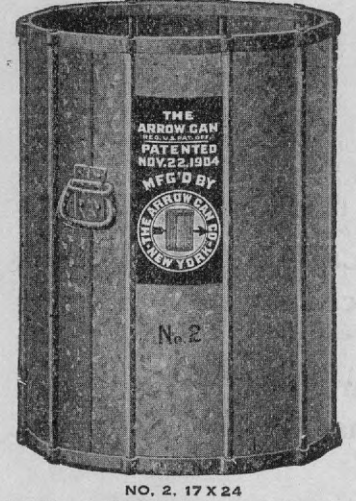
PROTECTED BY PATENTS

NO. 12, 12 X 12

An Improved Pressed Steel Can which has no rivets to pull out, linked hoops to pull off, or thin bottoms to rust out.

GALVANIZED AFTER ASSEMBLING

Especially adapted for use in HOTELS, APARTMENT HOUSES and OFFICE BUILDINGS




NO. 2, 17 X 24

THE ARROW CAN CO.

Corner of Warren and Church St.

NEW YORK, N. Y.

PRESSED METAL SPECIALTIES


## 1293–Cans (Ash & Garbage)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow," Pressed** Steel), Warren & Church, New York. (See adv. index, end of book)
Atlantic Stamping Co. ("Atlantic"), Rochester, N. Y.
Bishop-Eberle Mfg. Co. ("Security" Garbage), St. Louis, Mo.
Brooklyn Ash Can Co., 2196 Fulton, Brooklyn,
Brown Stamping Co., Toledo, O. N. Y.
Bushnell Tank Works, Bushnell, Ill.
Central Stamping Co. ("Giant," "Monitor," "Central"), 174 Fulton, New York
Cincinnati Galvanizing Co., Cincinnati, O.
Cockburn Co. (Heavy Sheet Steel), Jersey City, N. J.
Diener, Geo. W. Mfg. Co., Monticello av & Kinzie, Chicago, Ill.
Dairymen's Mfg. Co., Jersey City, N. J.
Dover Stamping & Mfg. Co. ("Dover" Galvanized Steel, also with Safety Coal Sieve), Cambridge, Mass.
Durlach, I. (Indestructible), 54 Vesey, New York
Ely & Williams Co. (Engines), 257 B'way, N. Y.
Geuder, Paeschke & Frey Co. ("Cream City"), Milwaukee, Wis.
Guarantee Ash Can Co., 301 E 100th, New York
Harry Bros. Co. ("Harry's," Corrugated Galvanized Steel), Newport, Ky., & New Orleans, La.
Henning Bros., 3924 Indiana av, Chicago, Ill.
Ironclad Mfg. Co. (Galvanized), 204 Varet, Brooklyn, N. Y.
Justrite Mfg. Co. ("Justrite" Sanitary), 333 S Clinton, Chicago, Ill.
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk" Aluminum Galvanized), Canandaigua, N. Y.
Montauk Sanitary Improvement Co. (Inc.), 115 Old B'way, New York
National Enameling & Stamping Co., 374 B'way, New York
New England Enameling Co., Middletown, Conn.
New York Standard Ash Can Co., 436 E 10th, New York
North Star Ash Can Co. (Engineers' Steel), 167 Chrystie, New York
Ohio Galvanizing Mfg. Co. (Heavy), Niles, O.
Republic Metal Ware Co., Buffalo, N. Y.
Rochester Can Co., Rochester, N. Y.
Wheeling Corrugating Co., Wheeling, W. Va.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)
Witt Cornice Co. ("Witt's"), Cincinnati, O.
Wotherspoon, Jas. R., 238 N Front, Phila., Pa.

## 1294–Cans (Automobile Oil)

**ARROW CAN CO. ("Arrow"), Warr**en & Church, New York. (See adv. index, end of book)
Columbia Can Co., St. Louis, Mo.
Dover Stamping & Mfg. Co. ("Dover" Cylinder Oil), Cambridge, Mass.
National Can Co., Detroit, Mich.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.

## 1294a– Cans (Benzine)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)

## 1295– Cans (Decorated)

(See also Boxes & Cans, Litho. Metal)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)

## 1296– Cans (Faucet)

Stuart & Peterson Co. (Porcelain Lined), Burlington, N. J.

## 1297– Cans (Fibre)

**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)

## 1298– Cans (Gasoline)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow"), Warr**en & Church, New York. (See adv. index, end of book)
Atlantic Stamping Co. ("Atlantic," 1 to 5 gallon, Spout Faucet, etc.). Rochester, N. Y.
Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Columbia Can Co., St. Louis, Mo.
Delphos Mfg. Co. ("Legal"), Delphos, O.
Dover Stamping & Mfg. Co. ("Dover"), Cambridge, Mass.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Lisk Mfg. Co. (Ltd.) ("Lisk" Anti-Rust Spout with Screw Top, etc.), Canandaigua, N. Y.
McNutt Non-Explosive Can Co. (Non-Explosive), 352 Pearl, New York
Roseland Can & Specialty Co. (Plain Tank for Oil & Gasoline), Rockford, Ill.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.

## 1299– Cans (Glass, Oil)

Ball Bros. Glass Mfg. Co., Muncie, Ind.
**BERGER MFG. CO., The, Main Office** & Works, Canton, O. (See adv. index & branch offices, end of book)
Harpe, J. A. Mfg. Co., Greenfield, O.
Ohio Lantern Co. ("Baron" Resilient & "Ohio" Wire Cushioned), Tiffin, O.

## 1300– Cans (Ice)

**ARROW CAN CO. ("Arrow"), Warr**en & Church, New York. (See adv. index, end of book)
**EDWARDS MFG. CO., 545–565 Eg**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Great Lakes Engineering Works, Detroit, Mich.
Harrisburg Pipe Bending Co., Harrisburg, Pa.
Kiechler Mfg. Co., Cincinnati, O.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Ohio Galvanizing & Mfg. Co., Niles O.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Ruemmeli-Dawley Mfg. Co., St. Louis, Mo.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sterling Blower Co., Hartford, Conn. of book)
Triumph Ice Machine Co., Cincinnati, O.
Vogt, Henry Machine Co., Louisville, Ky.
Wall, P. Mfg. Supply Co., Pittsburg, Pa.
Wolf, Fred W. Co., 827 Rees, Chicago, Ill.
Wulff, W. C. & Co., Louisville, Ky.

## 1301– Cans (Ice Cream)

Buhl Stamping Co., Detroit, Mich.
Crandall & Godley Co., 135 Hudson, New York
Dairymen's Mfg. Co. ("Sanitary"), Jersey City, N. J.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
North Star Ash Can Co., 167 Chrystie, New York
Stuart & Peterson Co. (Porcelain Lined), Burlington, N. J.
Sturges & Burn Mfg. Co., 508 S Green, Chicago, Ill.
White Mountain Freezer Co., Nashua, N. H.
Wright, R. G. & Co., Buffalo, N. Y.

## 1302– Cans (Jacket)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow," Also** Wood Jacket), Warren & Church, New York. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## Cans (Lithographed)

(See Boxes & Cans, Litho Metal)

## 1302a–Cans (Medicinal & Toilet Preparation)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)

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## 1303— Cans (Milk)

**Brown Stamping Co., Toledo, O.**
Buhl Stamping Co., Detroit, Mich.
Clark, W. J. Co., Salem, O.
Dairymen's Mfg. Co. ("Sanitary"), Jersey City, N. J.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
**Lalance & Grosjean Mfg. Co.,** 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk" Anti-Rust Tin), Canandaigua, N. Y.
Miller, Chas. & Son Co., Utica, N. Y.
National Enameling & Stamping Co., 374 B'way, New York
Oakes & Burger Co. ("Empire State" & "Union"), Cattaraugus, N. Y.
Republic Metalware Co., Buffalo, N. Y.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.
Sturges & Burn Mfg. Co., 508 S Green, Chicago, Ill.
Tyler Specialties Co., Rome, N. Y.

## 1304— Cans (Miners' Oil)

Columbia Can Co., St. Louis, Mo.
Gem Mfg. Co., Pittsburg, Pa.
Hardsocg, Martin Co., N S Pittsburg, Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 1305— Cans (Oil)

**Adams & Westlake Co.,** 319 W Ontario, Chicago, Ill.
Aluminum Goods Mfg. Co. (Aluminum), Manitowoc, Wis.
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow"), Warren & Church,** New York. (See adv. index, end of book)
American Tube & Stamping Co., Bridgeport, Conn.
Atlantic Stamping Co. ("Atlantic," 1 to 5 gallons, Spout Faucet, etc., for Kerosene & Gasoline), Rochester, N. Y.
Beman Automatic Oil Can Co., Meadville, Pa.
**BERGER MFG. CO., THE, Canton, O.** (See adv. index & branch offices, end of book)
Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Bloomer, R. E., Keithsburg, Ill.
Brown Stamping Co., Toledo, O.
Bumann Mfg. Co., Litchfield, Ill.
Canners' Can Co., 133 W 46th, Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Conneaut Can Co. ("Red Hoop"), Conneaut, O.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Delphos Mfg. Co. ("Never Leak," Spout or Faucet, etc.), Delphos, O.
Deverall Perfection Mfg. Co. ("Deverall"), Coney Island av & Johnson pl, Brooklyn, N. Y.
Dover Stamping & Mfg. Co ("Acme," Family & "Dover," Auto, etc.), Cambridge, Mass.
Dressel Railway Lamp Works (Steel for Engineers, etc.), 3860 Park av, New York
Dunlap, John Co. (Galvanized), Pittsburg, Pa.
Eagle Glass & Mfg. Co., Wellsburg, W. Va.
Gem Mfg. Co. ("Gem" Heavy Brazed Steel Oil Carriers), Pittsburg, Pa.
Geuder, Paeschke & Frey Co. ("Cream City," Anti-Leak, Galvanized), Milwaukee, Wis.
Goodwin Hand Oiler Co., Richmond, Ind.
Gray, Peter & Sons (For Railroad Use, etc.), Cambridge, Mass.
Hall Mfg. Co., 62 Cliff, New York
Handlan-Buck Mfg. Co. (Railway, etc.), St. Louis, Mo.
Harps, J. A. Mfg. Co. ("Never Fail," for Oil or Gasoline, for Household Use), Greenfield, Ohio
Hunt & Dorman Mfg. Co., 2102 Superior av, N E, Cleveland, O.
Impervious Package Co. (Wood), Keene, N. H.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Jackson, J. W., Sharpville, Pa.
Johnson Mfg. Co., Urbana, O.
Kiechler Mfg. Co., Cincinnati, O.
Knapp Mfg. Co. (Oil Carriers), 20 Warren, New York
Lisk Mfg. Co. (Ltd.) ("Lisk" Anti-Rust, Plain & Decorated Spout or Faucet), Canandaigua, N. Y.
McClintock & Irvine Co., Pittsburg, Pa.
McNutt Non-Explosive Can Co. (Non-Explosive), 352 Pearl, New York
Manhattan Brass Co., 332 E 28th, New York
Manufacturers Can Co., Newark, N. J.
Mark Mfg. Co., Evanston, Ill.
Maple City Mfg. Co. ("Standard," for Gasolene & Kerosene, also "Howland" Pump), Monmouth, Ill.
Michigan Lubricator Co., Detroit, Mich.
Meisselbach, A. R. & Bro. ("One Drop"), Newark, N. J.
Morgan & Cornell, 211 Duane, New York
National Can Co. (For Castor, Olive & Essential Oils), Detroit, Mich.
National Enameling & Stamping Co., 374 B'way, New York
Noera Mfg. Co. ("Noera"), Waterbury, Conn.
Ohio Lantern Co. ("Baron" Resilient & "Ohio" Glass Wire Cushioned), Tiffin, O.
Republic Metalware Co., Buffalo, N. Y.
Rockford Brass Works, Rockford, Ill.
St. Louis Tin & Sheet Metal Works Co. (Plain & Decorated), St. Louis, Mo.
Scott & Co., Sharpsburg, Pa.
Tongue, R. E. & Bros., Allegheny av & Amber, Phila., Pa.
Troy Stamping Works, Troy, N. Y.
Union Furnace Mfg. Co., Union Furnace, Pa.
Wall, P. Mfg. Supply Co., N S, Pittsburg, Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)
Winfield Mfg. Co., Warren, O.

## 1306— Cans (Oil Pump)

Lisk Mfg. Co. (Ltd.) ("Lisk" Anti-Rust), Canandaigua, N. Y.
Maple City Mfg. Co. ("Howland"), Monmouth, Ill.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.


# Tin Cans
# Tin and Galvanized Ware
## Of All Kinds
## For All Purposes

We are the largest manufacturers of sheet metal containers in America, operating more than 40 factories in the United States and Canada. Our variety is the broadest and our output the largest.

**Fruit and Vegetable Cans** **Meat, Lard and Fish Cans**
**Tea, Coffee, Spice, Baking Powder, Cocoa Cans**
**Syrup, Oil, Ink, Polish, Paint, Varnish Cans**
**Cans for Medicinal and Toilet Preparations**
**Shipping Cans, Tanks, Etc., Etc.**
**Plain or Decorated**

American Can Company

New York Chicago San Francisco Montreal

Local offices in all large cities


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## 1307—Cans (Packers', Etc.)

Atlantic Can Co., Baltimore, Md.
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Bertels, W. B. & Son Co., Wilkes-Barre, Pa.
Boyer, W. W. & Co., Baltimore, Md.
Boyle Can Co., Baltimore, Md.
Columbia Specialty Co. (Plain & Decorated), Baltimore, Md.
Consumers' Can Co. (Lock-Seam), Baltimore, Md.
Continental Can Co., Syracuse, N. Y.
Grecht, Wm. Co., Baltimore, Md.
Heekin Can Co. (Lard), Cincinnati, O.
La Crosse Can Co. (Lithographed & Plain Lard, etc.), La Crosse, Wis.
Manufacturers Can Co., Newark, N. J.
National Enameling & Stamping Co., 374 B'way, New York
National Can Co., Baltimore, Md.
National Can Co., Detroit, Mich.
Phelps, Walter J., Baltimore, Md.
Platt Can Co., Baltimore, Md.
Porter, C. B. & Co., Phila., Pa.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.
Sanitary Can Co. (Enamel Lined, Plain, etc.), 447 W 14th, New York
Southern Can Co., Baltimore, Md.
Stuber & Kuck (Self-Sealing). Peoria, Ill.
Tennessee Can Co., Chattanooga, Tenn.
Tyler Can Co., Baltimore, Md.
United States Can Co. ("Standard" Solder Hemmed, Sanitary Friction Top & Wax Top), Cincinnati, O.
Virginia Can Co. (Lock Seam), Buchanan, Va.
Warren, J. W. & Co., Troy, N. Y.
Wheeling Can Co., Wheeling, W. Va.

## 1308—Cans (Paint & Varnish)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Columbia Can Co., St. Louis, Mo.
Dunlap, Jno. Co., Pittsburg, Pa.
Export & Domestic Can Co., 608 W 43d, New York
Louisville Varnish Co., Louisville, Ky.
Manufacturers' Can Co. ("Peerless," "Tip-Top"), Newark, N. J.
National Can Co., Detroit, Mich.
New Can Co., Boston, Mass.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.
Stuber & Kuck (Self-Sealing), Peoria, Ill.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 1309— Cans (Paper)

(See also Tubes, Mailing)

**AMERICAN CAN CO., 447 W 14th** New York (See adv. index & branch offices, end of book)
Chicago Paper Tube & Can Co., 168 N May, Chicago. Ill.
Detroit Paper Tube & Can Co., Detroit, Mich.
Empire Paper Tube & Box Co., 445 West, New York
Hinde & Dausch Paper Co. (Corrugated). Sanduksy, O.
Improved Mailing Case Co., 192 W Broadway, New York
N. Y. Tube & Corrugated Paper Co., 59 W 10th, New York
Novelty Drum Package Co., 84 Watts, New York
Ritchie, W. C. & Co., W. Van Buren & Green, Chicago, Ill.
**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)
St. Louis Paper Can & Tube Co., St. Louis, Mo.
Thompson & Norris Co. (Corrugated), Prince & Concord, Brooklyn, N. Y.
Union Paper Co., 844 Washington, New York

## 1310— Cans (Pump)

(See Cans, Oil Pump).

## 1311— Cans (Self-Sealing)

Akron Mfg. Co. ("Ideal"), Akron, O.
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow"), Warren & Church,** New York. (See adv. index, end of book)
National Can Co., Detroit, Mich.
Stuber & Kuck, Peoria, Ill.

## 1312—Cans (Shipping, Wood Jacket)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow"), Warren & Church,** New York. (See adv. index, end of book)
Burns, Jno. & Son, 19 Fulton, New York
Chapin, R. E. Mfg. Works, Batavia, N. Y.
Columbia Can Co., St. Louis, Mo.
Conneaut Can Co., Conneaut, O.
Delphos Mfg. Co., Delphos, O.
Gotham Can Co., 18 Cliff, New York
Helbig. J., 254 Pearl, New York
National Can Co., Detroit, Mich.
National Enameling & Stamping Co., 374 B'way, New York
Roseland Can & Specialty Co. ("Reliable"), Rockford, Ill.
Stuber & Kuck, Peoria, Ill.

## 1313—Cans (Street Cleaning)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow"), Warren & Church,** New York. (See adv. index, end of book)
Durlach, I. 54 Vesey, New York
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Ohio Galvanizing & Mfg. Co. (Sheet Steel), Niles, O.

## 1314— Cans (Tin)

(See also Cans, Various Kinds, in Index of Contents)

**AMERICAN CAN CO. (For All Known** Purposes), 447 W 14th, New York. (See adv index & branch offices, end of book)


# Largest Independent Fibre Can M'f'rs.

## The St. Louis Paper Can & Tube Co.
## 3115-21 North Broadway, St. Louis, Mo.

Manufacturers of Round Fibre or Paper Cans with Tin Tops or Bottoms for Baking Powder, Talcum and Tooth Powder, Insect, Polishing and Cleaning Powders, Coffee, Spices, etc.

**All Paper or Fibre Cans for Dry Colors, Drugs, Chemicals, Bird Seed, Tea, Cereals**

**Gas Mantles, Dry Batteries, etc.**

**Tubes for Electrical Purposes, Mailing Tubes**

**Tubes for Filing or Storing Drawings or Blue Prints.**

**Mailing Cases for Liquids**

Round Screw Top

**Tin Mailing Boxes for Sampling Tea, Coffee, Sugar, Flour, and Dry Powders of every description**


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American Key Can Co., Marquette bldg, Chicago, Ill.
American Stopper Co., 2 Verona, Brooklyn, N. Y.
Atlantic Can Co. (Packers' Only), Baltimore, Md.
Ayars, B. S. & Sons Co., Bridgeton, N. J.
Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Bray & Kates (Creamery), Arlington Heights, Ill.
Brown Stamping Co., Toledo, O.
Buhl Stamping Co., Detroit, Mich.
Canister Co., Phillipsburg, N. J.
Canners' Can Co., 123 W 46th, Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Chapin, R. E. Mfg. Works, Batavia, N. Y.
Clark, J. L. Mfg. Co. (Plain & Lithographed Druggists, etc.), Rockford, Ill.
Cline, L. Mfg. Co., 1239 Wabash av, Chicago, Ill.
Colonial Can Co., Boston, Mass.
Columbia Can Co., St. Louis, Mo.
Columbia Specialty Co., Baltimore, Md.
Conneaut Can Co. ("Red Hoop"), Conneaut, O.
Consumers' Can Co. (Packers' Lock Seam), Baltimore, Md.
Continental Can Co. (Fruit & Vegetable), Syracuse, N. Y.
Cream City Can Works, Milwaukee, Wis.
Eisengart, Wm. L., 619 Root, Chicago, Ill.
Export & Domestic Can Co., 616 W 43d, New York
Grecht, Wm. Co. (Packers'), Baltimore, Md.
Gulf Mfg. Co., New Orleans, La.
Heekin Can Co. (Baking Powder, etc.), Cincinnati, O.
Hill, Jas. Mfg. Co., Providence, R. I.
Impervious Package Co., Keene, N. H.
Kiechler Mfg. Co., Cincinnati, O.
La Crosse Can Co. (Lard, Coffee, Honey, etc., Plain and Lithographed), La Crosse, Wis.
Lecomte & Co., 174 7th, Brooklyn, N. Y.
Los Angeles Can Co., Los Angeles, Cal.
Louisville Varnish Co., Louisville, Ky.
Manufacturers Can Co., Newark, N. J.
Messenger, H. B., Federalsburg, Md.
Morgan & Cornell, 211 Duane, New York
National Can Co. (Packers', Syrup, etc.), Baltimore, Md
National Can Co., 36 Wash'n N, Boston, Mass.
National Can Co., Detroit, Mich.
Neal, W. H. & Sons Co., Hurlock, Md.
New Can Co., 326 A, Boston, Mass.
Northwestern Can Co., 330 Orleans, Chicago, Ill.
Oaks & Burger, Cattaraugus, N. Y.
Phelps, Walter J., Baltimore, Md.
Platt Can Co. (Packers'), Baltimore, Md.
Republic Metalware Co., Buffalo, N. Y.
Roseland Can & Specialty Co., Rockford, Ill.
**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)
St. Louis Tin & Sheet Metal Works Co. (Plain & Decorated), St. Louis, Mo.
Sanitary Can Co. (Tomato, for Whole Tomatoes, etc.), 447 W 14th, New York
Schlueter Mfg. Co., St. Louis, Mo.
Southern Can Co. (Fruit, Syrups, etc.), Baltimore, Md.
Steward, L. & J. A., Rutland, Vt.
Stuber & Kuck, Peoria, Ill.
Summers, Chas. G. & Co., 415 W Camden, Baltimore, Md.
Trench, D. G. & Co., 5 Wabash av, Chicago, Ill.
Tyler Can Co. (Packers' Cans Only), Baltimore, Md.
U. S. Can Co. (Packers', etc.), Cincinnati, O.
Wabash Baking Powder Co., Wabash, Ind.
Wallmann Mfg. Co., Milwaukee, Wis.
Wheeling Can Co. (Fruit & Vegetable, etc.), Wheeling, W. Va.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)
Wilson, McClelland & Co., Kings Mills, O.
Wright, R. G. & Co., Buffalo, N. Y.

## 1315– Cans (Tin Fruit)

(See also Cans, Packers, etc.)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Franklinville Canning Co., Franklinville, N. Y.
National Can Co., Detroit, Mich.
Republic Metalware Co., Buffalo, N. Y.
Stuber & Kuck, Peoria, Ill.

## 1316– Cans (Waste)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**ARROW CAN CO. ("Arrow," Also** Self-Closing), Warren & Church, New York. (See adv. index, end of book)
Atlantic Stamping Co. ("Atlantic," Galvanized Iron), Rochester, N. Y.
Beman Automatic Oil Can Co., Meadville, Pa.
Bushnell Tank Works, Bushnell, Ill.
Central Stamping Co., 174 Fulton, New York
Clark, W. J. Co., Salem, O.
Cleveland Wire Spring Co. (Sheet Metal), Cleveland, O.
Consolid'd Fruit Jar Co., New Brunswick, N. J.
Delphos Mfg. Co. (Self-Closing Oily), Delphos, Ohio
Dover Stamping & Mfg. Co. (Oily Rag & Waste Can), Cambridge, Mass.
Dressel Railway Lamp Works (Cans & Pails), 3860 Park av, New York
Durlach, I., 54 Vesey, New York
Ely & Williams Co. (Factory Waste & Rubbish), 257 B'way, New York
Geuder, Paeschke & Frey Co. (Galvanized Iron, Oily Waste), Milwaukee, Wis.
Harry Bros. Co. ("Harry's," Oily Waste), Newport, Ky., & New Orleans, La.
Hill Dryer Co. (Self-Closing), Worcester, Mass.
Indianapolis Corrugating Co., Indianapolis, Ind.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Justrite Mfg. Co. ("Justrite"), 333 S Clinton, Chicago, Ill.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
McClintock & Irvine Co. (Steel Brazed), Pittsburg, Pa.
Manufacturers' Can Co., Newark, N. J.
Roseland Chain & Specialty Co. (Oily Rag & Waste), Rockford, Ill.
St. Louis Tin & Sheet Metal Works Co., St. Louis, Mo.
Wall, P. Mfg. Supply Co., N S, Pittsburg, Pa.
Willcox Engineering Co., Saginaw, Mich.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 1317– Cant-Dogs

Norton, W. F., Kingfield, Me.
Peavey Mfg. Co. ("Peavy"), Bangor, Me.
Witham, G. S., Caratunk, Me.

## 1318–Cant Flippers (Steam)

**ALLIS-CHALMERS CO., Milwaukee.** Wis. (See adv. index & branch offices, end of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

## 1319– Canthooks

American Logging Tool Co., 150 Michigan av, Chicago, Ill.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Boston & Lockport Block Co., Boston, Mass.
Branch Saw Co., St. Louis, Mo.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Co. ("Champion," "Wolverine"), Evart, Mich.
Dicke, C. H. Tool Co., Downers Grove, Ill.
Evart Tool Co. (Ltd.), Evart, Mich.
Gerlach, Peter Co., Columbus rd & Winter, Cleveland, O
Jackson Shovel & Tool Co. ("Acme"), Montpelier, Ind.
Keystone Drop Forge Co. (Drop Forged Steel), Chester, Pa.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Prouty, C. & Co., Eldred, Pa.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Standard Saw Mill Machinery Co., Erie, Pa.
Warren Axe & Tool Co., Warren, Pa.

## 1319a–Capitals (Carved Wood)

(See Carvers, Wood, Classic; also Columns, Porch, Etc.)

## 1320–Capitals (Composition)

(See also Ornaments, Composition)

**ARCHITECTURAL DECORATING CO.,** 1600 S Jefferson, Chicago, Ill. (See adv. index, end of book)
**DECORATORS' SUPPLY CO. (Interior** & Exterior), Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Column & Mfg. Co., Detroit, Mich.
Emmel, Chas. & Rose Co. (Papier Mache Staff), 383 Albany, Boston, Mass.
Harnisch, Ad., Syracuse, N. Y.
Hartman, Malcolm Co., 159 N Jefferson, Chicago, Ill.
Ornamental Plaster Co., Cincinnati, O.
Plastic Relief Mfg. Co., 949 N Halsted, Chicago, Ill.
Spangler, Frank Co., Toledo, O.

## Capitals (Plaster)

(See Ornaments, Plastic)

## 1321–Cappers (Milk Bottle)

Abbott, D. S. Co., Olean, N. Y.

## 1322– Caps (Bathing)

Davol Rubber Co., Providence, R. I.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 1322a– Caps (Blasting)

**du PONT, E. I. de NEMOURS POW**der Co. ("Du Pont" & "California"), Wilmington, Del. (See adv. index & branch offices, end of book)

## 1323–Caps (Bottle & Flask)

American Bottle Cap Mfg. Co., 53 E Illinois, Chicago, Ill.
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Bernardin Bottle Cap Co. (Metal), Evansville, Ind.
Consolidated Fruit Jar Co. (Screw, etc.), New Brunswick, N. J.
Piqua Cap & Filler Co. (Milk Bottle Caps), Piqua, O.

## 1324– Caps (Bronze)

**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 1325– Caps (Chimney)

American Foundry & Mfg. Co., St. Louis, Mo.
**CANTON MFG. CO., CANTON, O.** (See adv. index, end of book)
Chattanooga Roofing & Foundry Co. ("Ziegel's"), Chattanooga, Tenn.
**EDWARDS MFG. CO. (Steel), 545–** 565 Eggleston av, Cincinnati, O., & 81 Fulton, New York. (See adv. index, end of book)
**GLOBE VENTILATOR CO. ("Globe"),** Troy, N. Y. (See adv. index, end of book)
Kramer Bros. Foundry Co. ("Gem" Adjustable Can Iron), Dayton, O.
Loetscher-Ryan Mfg. Co. (Adjustable Clamp, etc.), Dubuque, Ia.
Munnsville Plow Co. (Cast Iron), Munnsville, N. Y.
National Mfg. Co. ("Best"), Sterling, Ill.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Standard Ventilator Co. ("Standard," Cast Iron), Lewisburg, Pa.
Sterling Foundry Co. ("Best"), Sterling, Ill.

## 1326– Caps (Collet)

**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 1327– Caps (Fruit Jar)

**AMERICAN CAN CO. ("Sanicap" for** Mason Fruit Jars), 447 W 14th, New York. **(See adv. index & branch offices, end of book)**
Ball Bros. Glass Mfg. Co., Muncie, Ind.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Hero Mfg. Co. ("Boyd's"), Gaul & Adams, Phila., Pa.
Wheeling Stamping Co., Wheeling, W. Va.

## 1327a– Caps (Fuse)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## Caps (Gun & Percussion)

(See Cartridge Manufacturers)

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## 1328—Caps (Hitching Post)

**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Munnsville Plow Co., **Munnsville, N. Y.**
Wilcox, Crittenden & Co., Middletown, Conn.

## 1329— Caps (Hub)

**GLOBE MACHINE & STAMPING CO.** (Drawn Steel), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hayward, S. F. & Co., 39 Park pl., New York
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 1330— Caps (Jelly Glass)

Hazel Atlas Glass Co. (Stamped Metal), Wheeling, W. Va.
Ohio Lantern Co. (Tin), Tiffin, O.

## 1331— Caps (Miners')

Hardsocg Mfg. Co., Ottumwa, Ia.
Jones, T. R. Co. ("Black Diamond"), Wilkes-Lattimore Mfg. Co., St. Clair, Pa. Barre, Pa.

## 1332— Caps (Pipe)

Belcher & Loomis Hardware Co. ("Boss"), Fox Mfg. Co., Brooklyn, Wis. Providence, R. I.
Gillett-Vibber Co., New London, Conn.
**LUNKENHEIMER CO. (Brass), General Offices,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO. (Brass),** 227 Campbell av, Detroit, Mich. (See adv. index, end of book)
Newbury, J. H., Goshen, N. Y.

## 1333—Caps (Roofing, Tin)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Ammidon & Co., Baltimore, Md.
Barrett Mfg. Co., 17 Battery pl, New York
**BURTON, W. J. CO., 161 W Congress,** Detroit, Mich. (See adv. index, end of book)
Carey, Philip Mfg. Co. ("Carey's"), Lock-
Columbia Can Co., St. Louis, Mo. land, O.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Franklinville Canning Co., Franklinville, N. Y.
Horan Stay Hanger Co., Louisville, Ky.
Humphrey, H. W., Unionville, Conn.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Judd & Leland Mfg. Co., Clifton Springs.
Merwin Mfg. Co., Erie, Pa. N. Y.
National Can Co., Detroit, Mich.
National Enameling & Stamping Co., 374 B'way, New York
Reed Mfg. Co., Newark, N. J.
Republic Metalware Co., Buffalo, N. Y.
Robertson, W. F. Iron & Steel Co. ("Half Moon"), Cincinnati, O.
Tower Mfg. Co., Cincinnati, O.
Wheeling Corrugating Co., Wheeling, W. Va.

## 1334— Caps (Screw)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index, end of book)
Columbia Specialty Co., Baltimore, Md.
Delphos Mfg. Co., Delphos, O.
Hero Mfg. Co., Gaul & Adams, Phila., Pa.
Illinois Screw Co., Chicago, Ill.
Vogel, Wm. & Bros., Brooklyn, N. Y.
Wirz, A. H., 913 Cherry, Phila., Pa.

## 1334a—Caps (Uniform, Etc.)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl., New York. (See adv. index, end of book)

## 1335—Caps (Ventilating)

Wolverine Brass Works, Grand Rapids, Mich.

## 1336— Capstans

American Ship Windlass Co. (Also Electric), Providence, R. I.
Chase Machine Co. (Steam), Cleveland, O.
Dake Engine Co., Grand Haven, Mich.
Edson Mfg. Co. (Steam Bar), Boston, Mass.
**FLORY, S. MFG. CO. (Steam),** Bangor, Pa. (See adv. index, end of book)
Hyde Windlass Co., Bath, Me.
Marine Iron Works, Clayborn & Southport avs, Chicago, Ill.
Ridson Iron & Locomotive Works, San Francisco, Cal.
Russell, Albert & Sons, Newburyport, Mass.
Wilcox, Crittenden & Co. ("Victor"), Middletown, Conn.
Woodstock Hardwood & Spool Mfg. Co. (Wooden), Charleston, S. C.

## 1337—Capstans (Cable Pulling)

Hallett Iron Works, 519 W Polk, Chicago, Ill.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.

## Car Builders

(See Cars of Various Kinds)

## 1338—Car Builders' Earthenware

**Bellmark Co., Trenton, N. J.**

## 1339— Car Ceilings

American Veneer Co., Kenilworth, N. J.
Frost's Veneer Seating Co., Sheboygan, Wis.
Indestructible Fibre Co. (Wood Fibre), 45 B'way, New York
New York Veneer Seating Co. (Veneered Seats & Chairs), Jersey City, N. J.
Van Dyck Panel Co. (Wood & Pulp), 50 Church, New York
Wallace Supply Co., 120 S Jefferson, Chicago, Ill.
Woodman, Joel H. (Veneer), Hoboken, N. J.

## 1340—Car Chutes (Unloading)

Southern Foundry Co. (Quick Unloading of Coal, Broken Stone, etc.), Owensboro, Ky.

## 1341— Car Cleaning Plants

Pneumatic Specialty Co. ("Strickland" Portable & Stationary), 26 Cortlandt, New York

## 1342—Car Cleansing Powders & Compounds

Aquart Mfg. Co. (Varnish Renovator), Chemical bldg, St. Louis, Mo.
Becker Chemical Co., Cincinnati, O.
Climax Car Cleaner Co., Cleveland, O.
Idealo Co., 321 Bourse, Phila., Pa.
Imperial Car Cleaner Co., 218 McWhorter, Newark, N. J.
India Alkali Works ("The Savogran"), Boston, Mass.
Modoc Co. ("Modoc"), Fernwood, Pa.

## 1343—Car Curtains & Materials

Boston Artificial Leather Co. ("Moroccoline"), Stamford, Conn.
Boyle, Jno. & Co. (Cotton Duck & Curtain Strips), 112 Duane, New York
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Celluloid Co. ("Texordem"), 30 Washington pl, Chase, L. C. & Co., Boston, Mass. New York
Curtain Supply Co., 330 W Ohio, Chicago, Ill.
Dayton Mfg. Co., Dayton, O.
Forsyth Bros. Co., 213 Institute pl, Chicago, Ill.
Garford Co., Elyria, O.
Hale & Kilburn Mfg. Co., 1315 Walnut, Phila., Pa.
Lewis, Robt. Co., Richmond & Brill, Phila., Pa.
National Lock Washer Co. (Complete Curtains & Fixtures), 63 Johnson, Newark, N. J.
Pantasote Leather Co., 11 B'way, New York
Planet Co. ("Eclipse" Curtain Fixture), 1st Nat'l Bank bldg, Chicago, Ill.

## 1344—Car Doors & Fittings

(See also Doors, Grain)

Bullard Car Door Equipment Co., Birmingham, Ala.
Burdett-Rowntree Mfg. Co. (Automatic Car Doors), 515 Laflin, Chicago, Ill., & 147 W 26th, New York
Camel Co. (Security), Old Colony bldg, Chicago, Ill.
**DAHLSTROM METALLIC DOOR CO.** (Fireproof Steel Car Doors), Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)
Dayton Malleable Iron Co. (Fasteners), Dayton, O
Edwards, O. M. Co. (Extension Platform Trap Doors), Syracuse, N. Y.
Jones Car Door Co. ("Jones"), Monadnock blk. Chicago, Ill.
Miller, W. A. Elevator Mfg. Co., St. Louis, Mo.
National Railway Devices Co. ("Shoemaker," Fire Door Operator), Old Colony bldg, Chicago, Ill.
Pitt Car Gate Co. (Mfrs. Gibbs Vestibule Door Operating Devices, used in New York Subway), 136-138 W 24th, New York
Sherburne & Co. (Car Door Holders, etc.), Boston, Mass.
Standard Railway Equipment Co. (Grain), Pittsburg, Pa., & St. Louis, Mo.
**STEARNS, A. T. LUMBER CO., Neponset,** Boston, Mass. (See adv. index, end of book)
Wallace Supply Co. ("Duplex" all Bearing Fixtures for Double Car Doors), 120 S Jefferson, Chicago, Ill.
West Pullman Car Works, 120th & Peoria, Chicago, Ill.
Western Railway Equipment Co. ("St. Louis" & "Western," Flush; "Hoerr" & "Missouri," Interchangeable), Missouri Trust bldg, St. Louis, Mo.

## 1345— Car Dumpers

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
**BROWN HOISTING MACHINERY CO.,** Cleveland, O., & 26 Cortlandt, New York (See adv. index, end of book)
Browning Engineering Co., Cleveland, O.
Dodge, J. M. Co., Nicetown, Phila., Pa.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 1346—Car Fenders & Wheel Guards

Baltimore Car-Wheel Co. ("The Blakistone"), Baltimore, Md.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Consolidated Car Fender Co. ("Providence," Fender & Wheel Guard), Providence, R. I.
Eclipse Railway Supply Co. ("Eclipse," Life Guard), Cleveland, O.
Electric Service Supplies Co. ("Philadelphia," Fender), 1020 Filbert, Phila., Pa.
Electric Traction Supply Co. ("Berg"), St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Parmenter Fender & Wheel Guard Co. ("Parmenter," Fender & Wheel Guard). Boston, Mass.
Sterling-Meaker Co., 420 Ogden, Newark, N. J.
Wonham, Sanger & Bates ("H.-B." Universal Life Guard), 30 Church, New York
Worcester Railway Supply Co. ("Worcester" Double Acting Fender), Worcester, Mass.

## 1347— Car Gates & Guards

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buffalo Wire Works Co., Buffalo, N. Y.
Hardware & Woodenware Mfg. Co. (Wood), 693 B'way, New York
Jewett Car Co. ("Jewett"), Newark, O.
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Pitt Car Gate Co. (Mfrs. Pitt Car Gates used on B. R. T. Elevated & Surface Cars), 136-138 W 24th, New York
Smith & Wallace ("The Sargent"), Woburn, Mass.

## 1348—Car Lighting Apparatus

Adams & Westlake Co. (Electric Axle Light, etc.), 319 W Ontario, Chicago, Ill.
Commercial Acetylene Co., 80 B'way, New York
Consolidated Car Heating Co. ("McElroy" Automatic Axle Lights), 149 B'way, New York; Works: Albany, N. Y.
Consolidated Railway Electric Lighting & Equipment Co. (Automatic Electric Car Axle), 11 Pine, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gold Car Heating & Lighting Co., 17 Battery pl. New York
**MILBURN, A. ALEX. CO. (Steam** Acetylene Generator), 505 W Lombard, Baltimore, Md. (See adv. index, end of book)
Safety Car Heating & Lighting Co. ("Pintsch" Light), 2 Rector, New York
United States Light & Heating Co. ("Moskowitz" & "Bliss" Systems), 30 Church, New York

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## 1348a— Car Lining

**JOHNS, H. W.-MANVILLE CO.** ("J-M," "Ceilinite"), 100 William, New York. (See adv. index & branch offices, end of book)

## 1349—Car Manufacturers & Repairers)

Memphis Car Co., Memphis, Tenn.

## 1350—Car Movers or Pushers

(See also Bars, Pinch)

Advance Car Mover Co. ("Advance Never Slip," "Badger Never Slip"), Appleton, Wis.
Aldon Co. ("Sheldon"), Monadnock blk, Chicago, Ill.
Appleton Car Mover Co. ("Atlas"), Appleton.
Atha Tool Co., Newark, N J
Atkins, E. C. & Co. ("Atkins' A. A. A."), Indianapolis, Ind.
Atlas Railway Supply Co. ("Atlas"), Manhattan bldg, Chicago, Ill.
Boston & Lockport Block Co. ("Giant"), Boston, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Dodge Mfg. Co. ("Dodge," Safety Power Car Pullers), Mishawaka, Ind.
**FAIRBANKS, MORSE & CO. ("Sampson"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co. ("Victor"), St. Louis, Mo.
Hilts Wrench & Mfg. Co. ("Never-Slip"), Richford, N. Y.
Irving Mfg. & Tool Co., 169 Chambers, New York
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Marseilles Mfg. Co. ("Samson," "Hercules," Power Car Pullers), Marseilles, Ill.
**MINNEAPOLIS STEEL & MACHINE**ry Co. ("Champion"), Minneapolis, Minn. (See adv. index & branch offices, end of book)
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Oshkosh Logging Tool Co. ("Badger"), Oshkosh, Wis.
Pearson Jack Co. ("The U. S."), Boston, Mass.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Rowell, G. D. & Son ("Samson," "Rowell"), Appleton, Wis.
Stafford, E. H. Mfg. Co. ("Easy"), 248 Adams, Chicago, Ill.
Stephens-Adamson Mfg. Co. ("Sheldon"), Aurora, Ill.
Verona Tool Works (Car Pushers or Locomotive Pinch Bars), Pittsburg, Pa., & Verona, Pa.
**WEBSTER MFG. CO. ("Sheldon"),** 2410 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Zelnicker, Walter A. Supply Co. ("Zelnicker," Double Clutch Car Mover), St. Louis, Mo.

## 1351— Car Plush

Aikman, C. M. & Co. (Mohair), 135 5th av, New York
Chase, L. C. & Co. ("Goat Brand" Mohair Plushes), 89 Franklin, Boston, Mass.
Goff, D. & Sons (Mohair), Pawtucket, R. I.
Massachusetts Mohair Plush Co. (Mohair), Sanford Mills, Sanford, Me. Boston, Mass.

## Car Pushers

(See Car Movers or Pushers)

## 1352—Car Seats, Chairs & Fittings

Adams & Westlake Co. (Seats & Chairs), 319 W Ontario, Chicago, Ill.
American Rattan & Reed Mfg. Co. (Rattan Seating), Kingsland & Norman avs. Brooklyn, N. Y.
American Seating Co., 215 Wabash av, Chicago, Ill.
Barney & Smith Car Co. (Seating, etc.), Dayton, O.
Dayton Mfg. Co., Dayton, O. ton, O.
Ford & Johnson Co. ("Perfection" Car Seats), Chicago, Ill.
Frost's Veneer Seating Co. (Veneered), Sheboygan, Wis.
Hale & Kilburn Mfg. Co. ("Walkover"), 18th & Lehigh av, Phila., Pa.
Heywood Bros. & Wakefield Co. (Seats, etc.), Gardner, Mass.
Johnson Chair Co. (Chairs, etc.), 4401 W North av, Chicago, Ill.
Marks Adjustable Chair Co. (Parlor & Reclining Chairs), 11 E 30th, New York
New York Veneer Seating Co. (Veneered Seats & Chairs), Jersey City, N. J.
Potter & Stymus, 41st & Lexington av, New York
Scarritt-Comstock Furniture Co. (Seats, Chairs & Reclining Chairs), St. Louis, Mo.
Sterling-Meaker Co. ("Seat-Back" or Car Seats), Newark, N. J.
Wallace Supply Co., 120 S Jefferson, Chicago
Woodman, Joel H., Hoboken, N. J. Ill.

## 1353—Car Seats ("Quride's" Covering Only)

Quride Co., Syracuse, N. Y.

## 1354—Car Steps & Treads

(For Rubber Treads, See Mats & Matting Rubber)

**AMERICAN MASON SAFETY TREAD CO.,** 702 Old South bldg, Boston, Mass. (See adv. index & branch offices. end of book)
Q. M. S. Co. ("Stanwood" Steel), Plainfield, N. J.
Universal Safety Tread Co., 141 Milk, Boston, Mass.

## 1355— Car Trimmings

Adams & Westlake Co. (Metal Coach), 319 W Ontario, Chicago, Ill.
American Car & Ship Hardware Mfg. Co. (Brass & Bronze), New Castle, Pa.
Brill. J. G. Co., 62d & Woodland av, Phila., Pa.
Buescher Band Instrument Co., Elkhart, Ind.
Curtain Supply Co., 330 W Ohio, Chicago, Ill.
Columbia Machine Works & Malleable Iron Co. (Metal), 269 Chestnut, Brooklyn, N. Y.
Dreamer, W. G. & Co. (Also Trolley Car Trimmings), 96 John, New York
Delaware Marine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.
Dayton Mfg. Co. (Brass & Bronze), Dayton, O.
Edwards, O. M. Co., Syracuse, N. Y.
Halstead & Co. (Brass), 1129 Cherry, Phila.
Handlan-Buck Mfg. Co., St. Louis, Mo. Pa
Howard, Jas. L. & Co. (Metal), Hartford, Conn.
International Register Co., 625 W Jackson blvd, Chicago, Ill.
Ives, H. B. Co., New Haven, Conn.
Loeffelholz Co. (Brass), Milwaukee. Wis.
Midland Metal Co. (Brass & Bronze), 21st & Jefferson, Phila., Pa.
Recording Register & Fare Box Co., New Haven, Conn.
Wallace Supply Co., 120 S Jefferson, Chicago Ill.

## 1356—Car Truck Side Frames

Bettendorf Axle Co. (Cast Steel for Freight Cars), Davenport, Ia

## 1357—Car Truck & Body Bolsters

American Car & Foundry Co., St. Louis, Mo. & 165 B'way, New York
American Steel Foundries (Open Hearth Cast Steel), Nat'l Bank bldg, Chicago, Ill.
Atha Steel Casting Co., Newark, N. J.
Bettendorf Axle Co. (Trucks & Cast Steel Bolsters), Davenport, Ia.
Buckeye Steel Castings Co. (Open Hearth Steel), Columbus, O.
Chicago Railway Equipment Co. ("Monitor"). 46th & Winchester av, Chicago, Ill.
Commonwealth Steel Co. (Cast Steel). 112 N 4th, St. Louis, Mo.
Pittsburg Equipment Co. (Of Open-Hearth Steel), Pittsburg, Pa.
Pittsburg Steel Foundry (Open Hearth Steel Car Bolsters), Pittsburg, Pa.
Pressed Steel Car Co., Pittsburg, Pa.
Scullin-Gallagher Iron & Steel Co. (Cast Steel) St. Louis, Mo
Simplex Railway Appliance Co. (Freight, etc.) Com. Nat'l B'k bldg, Chicago, Ill.; Works Hammond, Ind
Standard Steel Car Co., Frick bldg, Pittsburg. Pa. Works, Butler, Pa.
Titan Steel Casting Co., Newark, N. J.

## 1358—Car Wheel Foundry Plants

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 1359—Car Window Fixtures

Edwards, O. M. Co. ("Paownyc"), Syracuse, N. Y.
Grip Nut Co. ("Universal"), Old Colony bldg., Chicago, Ill.
Ives, H. B. Co., New Haven, Conn.

## 1359a—Car Window Washers (Electric Portable)

**COATES CLIPPER MFG. CO., Worc**ester, Mass. (See adv. index, end of book)

## 1360— Carbanese

Midvale Mining & Mfg. Co. (For Founders), St. Louis, Mo.

## Carbide Mfrs.

(See Calcium Carbide)

## 1361—Carbolineum Importers

**CARBOLINEUM IMPORTING CO., 13** Jones la, New York
**GROSCHE, BRUNO & CO., New York.** (See adv. index, end of book)

## 1362— Carbon Bi-Sulphide

Taylor, E. K. (In Drums), Penn Yan, N. Y.

## 1363— Carbon Black Mfrs.

American Carbon Co., Warren, Pa.
Binney & Smith Co. (& Blacks of Every Description), 81 Fulton, New York
Cabot, Godrey L. Co. (Ltd.), Old South bldg, Boston, Mass.
Carbon Black Mfg. Co. (Ltd.), Kane, Pa.
Castle Brook Carbon Black Co., Williamsport,
Columbian Carbon Co., Weston, W. Va. Pa.
Hyde Carbon Black Co., Ridgway, Pa.
Peerless Carbon Black Co., Pittsburg, Pa.
Osborn, Clarence J. (Broker), 284 Pearl, New
Rock Run Carbon Co., Warren, O. York
Salberg Black Co., Ridgeway, Pa.
Seaver & Co., 120 Milk, Boston, Mass.
Southern Carbon Co., Warren. O.
Weston Carbon Co., Warren, Pa.

## 1364—Carbon (Globular & Granular)

National Carbon Co., Cleveland, O.

## 1365— Carbon Mfrs.

International Acheson Graphite Co. (Pure), Niagara Falls, N. Y.
Kettle River Co., Minneapolis, Minn.
Lamson, Jno. S. & Bro., 84 William New York
Sholes, Chas. E. Co. (Bisulphate & Tetra Chloride), 164 Front, New York
Southern Carbon Co., Warren, Pa.
Taylor, Edward R. (Bi-Sulphide of, Mfr.), Penn Yan, N. Y.

## 1366—Carbon (Manganese Dioxide)

Gilchrist, Robt. Co. (Ground), Elizabeth, N. J.

## 1367— Carbon Remover

Lakewood Chemical Co. ("Autopower"). Cleveland, O.

## 1368—Carbonate of Ammonia

American Agricultural Chemical Co., 2 Rector, New York

## 1369—Carbonate of Barytes

(See also Barytes)

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Gabriel & Schall (Pure Precipitated), 205 Pearl, New York
Roessler-Hasslacher Chemical Co., 100 William, New York

## 1370— Carbonate of Lime

Mitchell Lime Co., Mitchell, Ind.
Security Cement & Lime Co., Baltimore, Md.

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## 1371— Carbonate of Potash

German Kali Works (Magnesia), 93 Nassau, New York
Peters, White & Co. (Importers), 92 William, New York
Roessler & Hasslacher Chemical Co., 100 William, New York
Scholes, Chas. E. Co. (Brokers), 164 Front, New York
Wiarda, Jno. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 1372— Carbonators

Bastian-Blessing Co., 125 W Michigan, Chicago, Ill.
Bishop-Babcock-Becker Co. ("Eureka"), 49th & Hamilton av, Cleveland, O.
Goosmann Carbonic Machinery Co., 172 Washington, Chicago, Ill.
Liquid Carbonic Co., 420 Wells, Chicago, Ill.
Prankard, C. J. & Sons, Troy, N. Y.
Twitchell, S. Co. ("Washington," "President"), 223 Vine, Phila., Pa.

## 1373— Carbonizing

Vincent Steel Process Co. ("Vincent" Process), Detroit, Mich.

## 1374—Carbons (Arc Light)

American Carbon & Battery Co., East St. Louis, Ill.
Cary, Edw. E. Co. ("Fabius Henrion," Imported), 30 Church, New York
Frorup, L E. & Co. ("Arco," Imported), 232 Greenwich, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Kiewert, Chas. L. Co. ("Siemens," Importers), Milwaukee, Wis.
National Carbon Co., Cleveland, O.
Raven Carbon Mfg. Co., Kane, Pa.
Reisinger, Hugo ("Electra," "Nuenberg," Importers), 11 B'way, New York

## 1375— Carbons (Battery)

American Carbon & Battery Co., East St. Louis, Ill.
Cary, Edw. E. Co. ("Fabius," "Henrion," Importers), 30 Church, New York
Eastern Carbon Works, Jersey City, N. J.
Kiewert, Chas. L. Co. ("Siemens," Importers), Milwaukee, Wis.
National Carbon Co., Cleveland, O.
Raven Carbon Mfg. Co., Kane, Pa.
Speer Carbon Co., St. Marys, Pa.
Stackpole Battery Co., St. Marys, Pa.
Wolff, Alfred & Co. (Importers), 29 Park pl, New York

## 1376—Carbons (Black Diamonds) & Bortz

Bandler, Bernard & Son (For All Mechanical Purposes), 65 Nassau, New York
Baszanger, J. & Co. (Also Rough Diamonds), 108 Fulton, New York
Demmert, Henry & Co., 14 John, New York (Mechanical Purposes), 180 B'way, New York. (See adv. index, end of book)
Dessau, David & Bros. (For All Mechanical Purposes), 180 B'way, New York
Diamond Drill Carbon Co., 17 Frankfort, New York
Francis & Co., Hartford. Conn.
Mendes Cutting Factories, 12 John, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)
Nix, Carl Ludwig, 49 Maiden la, New York

## 1377—Carbons (Searchlight)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
National Carbon Co., Cleveland, O.

## Carboys

(See Stoneware, Chemical)

## 1378— Carbureter Parts

**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)

## 1379— Carbureters

Allen Fire Dept. Supply Co., Providence, R. I.
American Die & Tool Co. ("Weiland," Supplementary Carburetor), Reading, Pa.
Auto Improvement Co. ("Ever Ready"), 316 Hudson. New York
Backe Commutator Co., 33 Herkimer, Brooklyn,
Barker, C. L., Norwalk, Conn. N. Y.
Beckley-Ralston Co., 80 Michigan av, Chicago,
Bell Carburetor Co., Aurora, Ill. Ill.
Breeze Carburetor Co., Newark, N. J.
**Brennan Mfg. Co., Syracuse, N. Y.**
Brownell, F. A. Motor Co., Rochester, N. Y.
Buffalo Carburetor Co., Detroit, Mich.
Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
Camden-Anchor Rockland Mach. Co. ("Knox"). Camden, Me.
Carter Carburetor Co., 914 N Market, St. Louis, Mo.
Continental Engine Co., 129 N Canal, Chicago, Ill.
Delaware Machine Works ("Harris"), Wilmington, Del.
Demoter, W. R. Machinery Co. ("Brooke"), Kansas City, Mo.
Derry Mfg. Co., Derry, N. H.
De Tamble Motors Co. ("Universal"), Anderson, Ind.
Detroit Carburetor Co. ("E. C. B."), Detroit, Mich.
Detroit Steering Wheel & Wind Shield Co., Detroit, Mich.
Dow Portable Electric Co. ("Methot"). Brain-
Du Brie Motor Co., Detroit, Mich. tree, Mass.
Duff, R. A. Engineering Co., Nebraska City. Neb.
England, Arthur Co. ("England"), Merrimac,
Essex Brass Co., 480 Franklin. Detroit, Mich.
Essex Brass Foundry Co. ("Essex"), Cambridge, Mass.
Fast Machine & Tool Co., 24th & Greenfield av, Milwaukee, Wis.
Ferro Machine & Foundry Co. ("Ferro"), 115 Water, Cleveland, O.
Findeisen & Kropf Mfg. Co., 2100 S Rockwell, Chicago, Ill.
Fowler Brass Works (Inc.) ("Halladay"), 57 E 24th, Chicago, Ill.
Geer, Harry R. Co. (Motorcycle), 856 McLaran, St. Louis, Mo.
Generator Valve Co. ("Acorn," "Eclipse"), 296 Taaffe pl, Brooklyn, N. Y.
Gilbert Mfg. Co. ("Bowers"), New Haven, Conn.
Hall, Chas. E. Co. ("Hall"), Buffalo, N. Y.
Hawthorne Mfg. Co. ("Haw-man-co"), Bridgeport, Conn.
Heitger Carburetor Co. ("Heitger"). Indianapolis, Ind.
Hendricks Novelty Co. ("Stevenson"), Indianapolis, Ind.
Holley Bros. Co. ("Holley"), 668 Beaubien, Detroit, Mich.
Hoyt Carburetor Co. ("Hoyt"), 141 Mass. av, Boston, Mass.
Hydro Carbon Machine Co. ("Hydro Carbon"), 431 Bloomfield av, Newark, N. J.
Imperial Brass Mfg. Co., 242 S Jefferson. Chicago, Ill.
Jost's, Edmund Sons, 46 Dickerson, Newark. N. J.
Kalamazoo Carburetor Co., Kalamazoo, Mich.
Kelly, John ("Kelly"), Congress & 46th, Chicago, Ill.
Kennedy Ideal Carburetor Co. ("Kennedy Ideal"), 226 Columbus av, Boston, Mass.
Lamson Machine Co., Abington, Mass.
Lipman Mfg. Co., Beloit, Wis.
Lovell, McConnell Mfg. Co., 194 Wright, Newark, N. J.
Loomis Autocar Co., Westfield, Mass.
Lowe Bros. Machine Works ("Lowe"), Columbus, O.
McCord Mfg. Co. ("McCord"), 2585 E Grand blvd, Detroit, Mich.
Marvel Carburetor Co., Indianapolis, Ind.
Mayer Carburetor Co., 2673 Main, Buffalo, N. Y.
Mechanical & Electrical Mfg. Co., 2227 Prairie av, Chicago, Ill.
Michigan Lubricator Co., Detroit, Mich.
Milwaukee Auto Engine & Supply Co. ("Milwaukee"), Milwaukee, Wis.
Milwaukee Motor Co., 615 Clybourne. Milwaukee, Wis.
Monarch Valve Co., 112 Front, Brooklyn, N. Y.
Mosler, A. R. Co. ("M. & B"), 163 W 29th. New York
Motor Appliance Co. of America ("Maco"), 73 Warren, New York
Multiple Jet Carbureter Co. ("Raymond"). Richmond, Ind.
Myers, A. J. ("G. & A."), 244 W 49th, New York
Noonan Tool & Machine Works, Rome, N. Y.
North Chicago Machine Co. ("Palmble"), North Chicago, Ill.
Oberdorfer, M. L. Brass Co., Syracuse, N. Y.
Panhard & Levassor Auto Co. ("Krebs"), B'way & 62d, New York
Petre Carburetor Co., Cleveland, O.
Planhard Mfg. Co., Kokomo, Ind.
Reichenbach Laboratories ("Vortex"), 2420 Michigan av, Chicago, Ill.
Reliance Motor Cycle Co., Owego, N. Y.
Royal Motor Works ("Brown & Barlow," Imported), Worcester, Mass.
Schlosser Mfg. Co., 151 E 126th, New York
Shain, Chas. D. ("Ball Spray"), 1926 B'way, New York
Sherwood Mfg. Co., 1702 Elmwood, Buffalo, N. Y.
Siro Carburetor Mfg. Co., 31 Taylor, Springfield, Mass.
Steinbrenner & Co. ("Niagara Spray"), 107 Victoria, Buffalo, N. Y.
Stewart, Alfred C. Machine Works (Stewart Precision), 17 Battery pl, New York
Stromberg Motor Devices Co. ("Stromberg"), 64 E 25th, Chicago, Ill.
Thrall Motor Co., Detroit, Mich.
Triumph Motor Car Co., 3308 Sheffield av, Chicago, Ill.
Vincennes Motor Mfg. Co. ("Hunters"), Vincennes, Ind.
Waterhouse Co., 6 Pelham, Boston, Mass.
Wheeler & Schebler ("Schebler"), Indianapolis, Ind.
Wilcox-Bennett Carburetor Co. ("Bennett"), Minneapolis, Minn.
Williams Carburetor Mfg. Co., 963 William, Buffalo, N. Y.
Winkley Co. (Garillus), Detroit, Mich.

## 1379a—Card Drawer Cases (Steel)

**FIRE-PROOF FURNITURE & CON**struction Co., Miamisburg. O. (See adv. index, end of book)

## Card Indexes

(See Filing Cabinets & Devices)

## 1380—Card Tables (Folding)

**BURROWES, E. T. CO., THE, Portland, Me.** (See adv. index & branch offices, end of book)

## 1381— Cards (File)

Phoenix Hardware Mfg. Co., Homer, N. Y.

## 1382—Cards (Index & Guide)

American Business Supplies Co. (Also Reinforced Celluloid Guide Cards), Boston, Mass.
Standard Index Card Co. (Also Celluloid Tipped Guide Cards), 709 Arch, Phila., Pa.

## 1383— Carlines

Cleveland Car Specialty Co. (Pressed Steel), Cleveland, O.

## 1384—Carousels, Organs, Etc.

Dentzel, Gustav A., 3641 Germantown av, Phila., Pa.
Evans & Co. (Steam), Lockport, N. Y.
Gillie Machine Co., Tonawanda, N. Y.
Health Merry-Go-Round Co., Quincy. Ill.
Herschell, Spillman Co. (also Doll Racks, Striking Machines, Old Women & African Dodger), North Tonawanda, N. Y.
Mangels, Wm. F., Brooklyn, N. Y.
Morris, E. Joy, 902 Walnut, Phila.. Pa.
Philadelphia Toboggan Co., 130 E Duval (Gtn), Phila., Pa.

## Carpenters & Builders

(See Builders, Contracting; also Contractors, General)

## 1385— Carpet Linings

Berlin Mills Co. ("Nibroc Kraft"), Portland,
Bishop, Robert Mfg. Co., Boston, Mass. Me.
Carey, Philip Mfg. Co. ("Carey's" Felt). Lock-
Carlyle Paper Co., Carlyle, Ill. land, O.
Coons, Fred M., Rockton, Ill.
Cullen, Louis C., Cheyney, Pa.
Ford Mfg. Co., 2339 Lasalle, Chicago, Ill.
Fox Paper Co., Lockland, O.
General Roofing Mfg. Co., East St. Louis, Ill.
Hartje Paper Mfg. Co., Pittsburg, Pa.
Kennesaw Paper Co., Marietta, Ga.

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Kieffer, John E. & Co., Brownstown, Ind.
Kingston's, Wm. Son, Little Falls, N. Y.
Munroe Falls Paper Co., Massillon, O.
Munroe Felt & Paper Co., Boston, Mass.
New England Carpet Lining Co., New London, Conn.
Newton Paper Co. ("Gold Medal"), Holyoke, Mass.
Ohio Paper Co., Miamisburg, O.
Olmstead & Tuttle Co., Chicopee, Mass.
Peters Paper Co., Latrobe, Pa.
Richardson Paper Co., Lockland, O.
Rockton Paper Co. (Corrugated), Rockton, Ill.
Schmidt & Ault Paper Co., York, Pa.
Sutton, E. W., 53 Sedgwick, Brooklyn, N. Y.
Thompson & Norris Co. ("Norwich Thread-spring" Corrugated), Concord & Prince, Brooklyn, N. Y.
Union Carpet Lining Co., Boston, Mass.
Union Roofing & Mfg. Co., St. Paul, Minn.
Van de Carr Paper Co., Stockport, N. Y.
**WATSON, H. F. CO. (Corrugated,** Moth Proof, etc.), Erie, Pa. (See adv. index & branch offices, end of book)

## 1386—Carriage Calls (Electric)

Edwards & Co., 140th & Exterior, New York
Electric Carriage Call Co. (For Theatres, etc.), 173 Christopher, New York

## 1387—Carriage Cloth (Rubber & Enamel)

Acme Rubber Mfg. Co., Trenton, N. J.
Chase, L. C. & Co., Boston, Mass.
Cleveland Rubber Co., Cleveland, O.
Consolidated Rubber Co., Trenton, N. J.
Empire Rubber Co., Trenton, N. J.
Fairfield Rubber Co., Fairfield, Conn.
Goodyear India Rubber Glove Mfg. Co. (Rubber), 503 B'way, New York
Heath, Edmund F. & Son (Enamel & Rubber), Newark, N. J.
National India Rubber Co., Bristol, R. I.

## 1387a—Carriage Trimmings

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 1388—Carriage Trimmings (Plated)

**(See also Hardware Manufacturers, Carriage)**

Buescher Band Instrument Co., Elkhart, Ind.
Enterprise Brass & Plating Works, Cincinnati, Ohio
Higgin Mfg. Co., Newport, Ky.
Kenzie & Kuhles, 319 W Ohio, Chicago, Ill.
Schlegal Mfg. Co., Rochester, N. Y.
Smith, Jos. N. & Co. (Rails, Handles, Name Plates, etc.), Detroit, Mich.
Spring Perch Co., Bridgeport, Conn.
White Mfg. Co., Bridgeport, Conn.
Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

## 1389—Carriages (Cable)

**FLORY, S. MFG. CO. (And Fall Blocks),** Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## 1390—Carriage (Children's)

**Adams Carriage Co., Canal Dover, O.**
Allen Chair Co., Concord Junction, Mass.
Capital Rattan Co., Indianapolis, Ind.
Carriage & Toy Co., Baltimore, Md.
Carter & Campbell, Winchendon, Mass.
Chicago Writing Machine Co. ("Gale"), Galesburg, Ill.
Children's Vehicle Corp., East Templeton, Mass.
Collier-Keyworth Co. (Collapsible Go-Carts), Gardner, Mass.
Computing Cheese Cutter Co. (Go-Carts), Anderson, Ind.
Ficks Carriage & Reed Co. (Collapsible Go-Carts), Cincinnati, O.
Field, C. R. Mfg. Co., Greenfield, Mass.
Ford & Johnson Co., 16th & Indiana av, Chicago, Ill.
Fulton Mfg. Co. (Go-Carts), 551 Fulton, Chicago, Ill.
Garrett Go-Cart & Carriage Co. (Go-Carts & Carriages), 1728 Ogden pl, Chicago, Ill.
Gendron Wheel Co., Toledo, O.
Glascock Bros. Mfg. Co., Muncie, Ind.
Hardware & Woodenware Mfg. Co. (Rattan, Reed, etc.), 693 B'way, New York
Hartshorn, C. H., Gardner, Mass.
Heinz & Munschauer, Buffalo, N. Y.
Heywood Bros. & Wakefield Co., Gardner, Mass.
Huke, Wm. Rattan & Willow Ware Mfg. Co., 1007 S 7th, St. Louis, Mo.
Kaiser, Jacob Mfg. Co., St. Louis, Mo.
Kelly Bros., Gardner, Mass.
Koeppner, Herman, Detroit, Mich.
Lloyd Mfg. Co., Menominee, Mich.
May, P. J., New Orleans, La.
May's Rattan Works, 3347 N Clark, Chicago, Ill.
Meinecke, Adolph & Son, Milwaukee, Wis.
Menke, Chas., 535 E 15th, New York
National Carriage & Go-Cart Co., Fairbault, Minn.
Newark Go-Cart Mfg. Co., Newark, N. J.
Noeller's, L. Sons, Buffalo, N. Y.
Pahl, E. F. & Co., Milwaukee, Wis.
Paris Mfg. Co., South Paris, Me.
Paterson, L. S., Pompanoosuc, Vt.
Philadelphia Baby Carriage Factory, 1148 N American, Phila., Pa.
Piel Bros. Mfg. Co., Indianapolis, Ind.
Platt, Geo. A., 489 5th av, Brooklyn, N. Y.
Ramsdell, L. B. Co., Gardner, Mass.
Rattan Mfg. Co. (Go-Carts), New Haven, Conn.
Rich Bros., 221 W Pratt, Baltimore, Md.
Rieber, L. & Co., 16 N 4th, Phila., Pa.
Streator Metal Stamping Co. ("Queen" Collapsible Go-Carts), Streator, Ill.
Sturgis Steel Go-Cart Co. (Go Carts), Sturgis, Mich.
Thayer, H. N. Co., Erie, Pa.
Uhlen Carriage Co. (Carriages & Go-Carts), Rochester, N. Y.
Wagner, E. R. Mfg. Co. ("Wagner" Quick Folding Go-Carts), North Milwaukee, Wis.
Waite Chair Co., Baldwinsville, Mass.
Walkers, Chas. T. & Co., 716 W North av, Chicago, Ill.
Whitney, F. A. Carriage Co. (Also Go-carts and Folding Go-carts), Leominster, Mass.
Whitney Reed Chair Co. (Also Go-carts), Leominster, Mass.
Withrow Mfg. Co. ("Oriole," "Go-Basket"), Cincinnati, O.

## 1391—Carriages (Gun)

Bethlehem Steel Co. (Steel), South Bethlehem, Pa.
Builders' Iron Foundry, Providence, R. I.
Mesta Machine Co., Pittsburg, Pa.
**MORGAN ENGINEERING CO. ("Gordon-Morgan"** Disappearing, etc.), Alliance, O. (See adv. index & branch offices, end of book)
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

## 1392—Carriages (Saw Mill)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Sawmill Machinery Co., 50 Church, New York & Hackettstown, N. J.
Berlin Machine Works, Beloit, Wis.
Clark Bros. Co., Belmont, N. Y.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Wilkinson"), Minneapolis, Minn.
Dubois Iron Works, Dubois, Pa.
Filer & Stowell Co., Milwaukee, Wis.
Frick Co., Waynesboro, Pa.
Garland, M. Co., Bay City, Mich.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
International Endless Chain Saw Co., 34 University pl, New York
Lane Mfg. Co., Montpelier, Vt.
McDonough Mfg. Co., Eau Claire, Wis.
Memphis Machine Works, Memphis, Tenn.
Murray, D. J. Mfg. Co., Wausau, Wis.
Phoenix Mfg. Co., Eau Claire, Wis.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Standard Saw Mill Mach'y Co., Erie, Pa.
Stearns Co. Erie, Pa
Union Iron Works, Bangor, Me.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

## 1393—Carriages (Tension)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO.,** 17th & Western av, Chicago, Ill. (See adv. index, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co. (Vertical & Horizontal), Indianapolis, Ind.
**WEBSTER MFG. CO., 2410 W 15th.** Chicago, Ill. (See adv. index & branch offices, end of book)

## 1394—Carriages & Conveyors (Tin Plate & Sheet Mill)

American Furnace & Machine Co. ("Swindell," Frictionless), Pittsburg, Pa.

## 1395—Carriers (Acid Phosphate)

Sackett, A. J., Baltimore, Md.

## 1396—Carriers (Barbed Wire)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
**ARCADE MFG. CO. ("Ajax"), Freeport,** Ill. (See adv. index, end of book)

## 1397—Carriers (Can & Bag, Street Sweeping)

Acme Road Machinery Co., Frankfort, N. Y.
Monarch Road Roller Co. ("Monarch"), Groton, N. Y.
Motley, Green Co., 68 Broad, New York
Strain & Sanford Co. (Can), 18 W 34th, New York
Wirt & Knox Mfg. Co. ("20th Century"), 23 N 4th, Phila., Pa.

## 1398— Carriers (Cash)

Acme Cash Railway Co. ("Acme," Basket or Parcel Carriers), New Haven, Conn.
Air Line Carrier Co. (Cash & Parcel), 200 Monroe, Chicago, Ill.
Baldwin, Jas. L. & Co. ("The Flyer"), 283 Madison, Chicago, Ill.
Barr Cash & Package Carrier Co., Mansfield, O.
Bilt-Rite Co., 322 3d av S, Minneapolis, Minn.
Burgess Machine Co. (also Bundle Carriers), New Haven, Conn.
Chism, David E., Springfield, Mass.
Kelly Cash & Package Carrier Co., 422 N Western av, Chicago, Ill.
Lamson Consolidated Store Service Co., 161 Devonshire, Boston, Mass.
Starr, Joseph, New London, Conn.
Taisey Pneumatic Service Co., Indianapolis, Ind.
Universal Pneumatic Transmission Co., 145 W Ohio, Chicago, Ill.

## 1399—Carriers (Feed & Litter)

Automatic Carrier Co., Juneau, Wis.
Berg, E. O. Mfg. Co., Madison, Minn.
Cherry Mfg. Co., Fairfield, Ia.
Drew Elevated Carrier Co., Waterloo, Wis.
Hackney Mfg. Co., Se. Paul, Minn.
Herschel Mfg. Co., Peoria, Ill.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Kent Mfg. Co., Fort Atkinson, Wis.
Louden Machinery Co., Fairfield, Ia.
Martin Automatic Carrier Co., Stevens Point, Wis.
Milwaukee Hay Tool Co., Milwaukee, Wis.
Mitchell Carrier Co., Milwaukee, Wis.
Porter, J. E. Co., Ottowa, Ill.
Ricker Mfg. Co., Rochester, N. Y.
Smith Mfg. Co., Chicago, Ill.
Standard Carrier Co., Kenyon, Minn.
Strickler Hay Tool Co., Janesville, Wis.
Warsaw-Wilkinson Co., Warsaw, N. Y.

## Carriers (Gravity)

(See Conveyors, Gravity)

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as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

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## 1400— Carriers (Hay)

**CANTON FOUNDRY & MACHINE CO.** (Steel Track), Canton, O. (See adv. index, end of book)
Eagle Mfg. Co. ("Appleton," "Eagle," "Samson"), Appleton, Wis.
Eureka Mower Co. ("Clark"), Utica, N. Y.
Farrell, John ("Farrell"), Newton, N. J.
Goshen Mfg. ("Hercules"), Goshen, Ind.
Hackney Mfg. Co., St. Paul, Minn.
Hunt-Helm-Ferris & Co. ("Star," "Peerless," "Elephant," "Harvard," "One-Way," Sling, Swivel & Reversible), Harvard, Ill.
Jackson, Byron Machine Works ("Walker"), San Francisco, Cal.
Louden Machinery Co. ("Jewell," "Royal," "Victor," & Louden's," Duplex, Cable, Junior & Sling")), Fairfield, Iowa
Milwaukee Hay Tool Co. ("Bloomer Swivel," "Leader," Cable, "Milwaukee," Reversible & Swivel, Wood & Steel Track, etc.), Milwaukee, Wis.
**MYERS, F. E. & BRO. ("Myers" Unloader** for Double Steel Track, Single Steel Track, Wood Track, Cable Track & Cable Draft Rope; "Cloverleaf" Unloader, "Faultless" Unloader, Single Rail Unloader, "Imperial" Unloader & "Haymaker" Unloader, Cross Draft), Ashland, O. (See adv. index & branch offices, end of book)
Ney, Mfg. Co. ("Genuine Ney"), Canton, O.
Ney, V. L. Co. ("Ney's Latest"), Canton, O.
Ohio Farmers' Hay Tool Co., Canton, O.
Porter, J. E. Co. ("Barnes," "Meadow King," "Meadow Queen," "Porter," "Porter's Columbian," "Champions" Reversible, Sling & Swivel, & "Prairie Queen" Steel Track), Ottawa, Ill.
Ricker Mfg. Co. ("Ricker," Wood or Steel Track), Rochester, N. Y.
Stowell Mfg. & Foundry Co. ("Acme," "Ajax," "Boyd's"), South Wilwaukee, Wis.
Strickler Hay Tool Co. ("Strickler," "Deadlock" Steel & Wood Track), Janesville, Wis.
Swineford, G. A. Co. ("Swineford"), Canton, Ohio
Syracuse Chilled Plow Co. ("Syracuse"), Syracuse, N. Y.
U. S. Wind Engine & Pump Co. ("Noyes," "Standard"), Batavia, Ill.
Whitaker Mfg. Co. ("Sterling"), Chicago, Ill.
**WHITMAN & BARNES MFG. CO.** ("Diamond," "New Acme," Steel & Wood Track, Rod or Cable), Akron, O. (See adv. index & branch offices, end of book)

## 1401—Carriers (Merchandise)

(See also Conveyors, also Trolleys & Trolley Tracks, Overhead )

Air Line Carrier Co., 200 Monroe, Chicago, Ill.
Allith Mfg. Co. (Overhead Tracks), W Taylor c S 43d av, Chicago, Ill.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City. (See adv. index, end of book)
Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.
Hunt-Helm-Ferris & Co. ("Star"), Harvard, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Ricker Mfg. Co., Rochester, N. Y.
**WEBSTER MFG. CO., THE (Package,** etc.), 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1402—Carriers (Milk Bottle)

Andrews Wire & Iron Works, Rockford, Ill.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of
National Mfg. Co., Worcester, Mass. book)
Smith, Jno. P. & Co., New Haven, Conn.

## 1402a—Carriers (Self-Feeder, Wing)

Hart Grain Weigher Co. ("Hart-Brown"), Peoria, Ill.

## 1402b— Cars (Air Dump)

**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)

## 1403— Cars (Annealing)

Chase Foundry & Mfg. Co., Columbus, O.
Industrial Car Co. (Steel), West Park, O.

## 1404— Cars (Ballast)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
Continental Car & Equipment Co., 45 E 17th, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Goodwin Car Co., 17 Battery pl, New York
Magor Car Co., 50 Church, New York
Ralston Steel Car Co., Columbus, O.
Rodger Ballast Car Co. ("Hart" Convertible). Railway Exchange bldg., Chicago, Ill.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Western Wheeled Scraper Co. (Bottom & Side Dump), Aurora, Ill.

## 1405— Cars (Barney)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 1406— Cars (Billet)

Akron Cultivator Co., Akron, O.
American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Marquette rd,** N. E., Cleveland, O. (See adv. index, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Chase Foundry Mfg. Co., Columbus. O.
Erie Car Works, Erie, Pa.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Industrial Car Co., West Park, O.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Magor Car Co., 50 Church, New York
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Ralston Steel Car Co., Columbus, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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## 1407—Cars (Boiler Room)

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## 1407a—Cars (Bottom Dump)

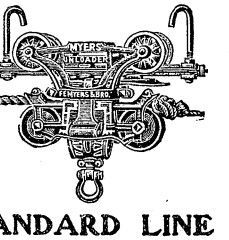
(See Cars, Drop Bottom; also Cars, Dumping)

## 1408—Cars (Brick & Clay)

(See also Trucks, Brick)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
**AMERICAN CLAY MACHINERY CO.** (Steel & Wood), Bucyrus, O., & Willoughby, Ohio
Anderson Foundry & Machine Works, Anderson, Ind.
Arnold-Creager Co., New London, O.
**ATLAS CAR & MFG. CO. (Also Metal,** Brick & Drying Cars, Sand, Lime, Brick, Deck, etc.), 1289 Marquette rd, N. E., Cleveland, O. (See adv. index, end of book)
Bonnot Co., Canton, O.
Chambers Bros. Co., 52d, below Lancaster av, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
**Continental Car & Equipment Co., 45 E 17th,** Desmond Mfg. Co., Edwardsville, Ill. New York
Eagle Foundry & Machine Co., Fort Scott, Kans.
Erie Car Works, Erie, Pa.
Freese, E. M. & Co., Galion, O.
Fulton Pit Car Co. (Clay), Canal Fulton, O.
Gregg Co. (Ltd.), Lodi, N. J.
Helmick Fdry & Machine Co., Fairmont, W. Va.
Industrial Car Co., West Park, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Magor Car Co., 50 Church, New York
Ohio Ceramic Engineering Co. (Deck, Rack, Flat, etc.), Cleveland, O.



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Peteler Car Co., Minneapolis, Minn.
Pratt Engineering & Machine Co., Atlanta, Ga.
Ralston Steel Car Co., Columbus, O.
Raymond, C. W. Co., Dayton, O.
Sackett, H. B. Screen & Chute Co., 1685 Elston av, Chicago, Ill.
Sheffield Car Co. (Steel & Wood), Three Rivers, Mich.
Steele, J. C. & Son, Statesville, N. C.
Stuart, R. J. & T. H., New Hamburg, N. Y.
**Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.**
Truax Mfg. Co. (John T. Plummer, Prop.) (Two Way Rock Dump), Denver, Colo.
Wellington Machine Co., Wellington, O.


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## 1409—Cars (Bridge Builders' Derrick)

**AMERICAN HOIST & DERRICK CO.** (Self-Propelling), St. Paul, Minn. (See adv. index & branch offices, end of book)

## 1410—Cars (Bridge Gang)

Buda Co., Railway Exchange bldg, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Co. (Ltd.), Lodi, N. J.


**ORENSTEIN-ARTHUR KOPPEL COMPANY**
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Peteler Car Co., Minneapolis, Minn.
Sheffield Car Co., Three Rivers, Mich.


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## 1411—Cars (Cable & Messenger)

Bissell, F. Co. ("Security"), Toledo, O.

## 1412— Cars (Caboose)

Georgia Car & Locomotive Co., Atlanta, Ga.
Mount Vernon Car Mfg. Co., Mt. Vernon, Ill.

## Cars (Cane)

(See Cars, Plantation)

## 1413— Cars (Canopy)

Gregg Co. (Ltd.), Lodi, N. J.


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Ramapo Iron Works, Hillburn, N. Y.
Sheffield Car Co., Three Rivers, Mich.

## 1414— Cars (Charging)

Akron Cultivator Co., Akron, O.
**ATLAS CAR & MFG. CO., 1289 Marquette rd, N. E., Cleveland, O.** (See adv. index, end of book)
**BIRDSBORO STEEL FOUNDRY & Machine Co., Birdsboro, Pa.**
Chase Foundry & Mfg. Co., Columbus, O.
**Conveying Machinery Co. (Balance Sheet), 120** Erie Car Works, Erie, Pa. Liberty, New York
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, N. Y.
Industrial Car Co. (Steel), West Park, O.
Kilbourne & Jacobs Mfg. Co. (Annealing Furnace, etc.), Columbus, O.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Magor Car Co., 50 Church, New York
Ohio Ceramic Engineering Co., Cleveland, O.


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Pennsylvania Engineering Works (Ingot & Open-Hearth), New Castle, Pa.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
Power & Mining Machinery Co., Cudahy, Wis.
Ralston Steel Car Co., Columbus, O.
**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)**
Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York; Works: Newburgh, N. Y.
Variety Iron & Steel Works Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)


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## 1415—Cars (Charging, Open Hearth)

**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)

## Cars (Cinder)

(See Cars, Hot Metal or Slag)

## Cars (Clay)

(See Cars, Brick & Clay)

## 1416— Cars (Coal)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Barney & Smith Car Co., Dayton, O.
Bartlett, A. F. & Co., Saginaw, Mich.
Bettendorf Axle Co. (All Steel), Davenport, Ia.
**CENTRAL IRON WORKS (Self-Dumping), Quincy, Ill.** (See adv. index, end of book)
Continental Car & Equipment Co., 45 E 17th, New York
Erie Car Works, Erie, Pa.
Goodwin Car Co., 17 Battery pl, New York
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Helmick Fdry & Machine Co., Fairmont, W. Va.
Honhorst, Joseph Co., Cincinnati, O.
**JEFFREY MFG. CO., Columbus, O.** Industrial Car Co. (Steel), West Park, O. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel, Side Opening, etc.), Columbus, O.
Lehigh Car Wheel & Axle Wks., Catasauqua, Pa.
Magor Car Co., 50 Church, New York
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Peteler Car Co., Minneapolis, Minn.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Portland Co., Portland, Me.
Pressed Steel Car Co. (Steel), Pittsburg, Pa.
Ralston Steel Car Co., Columbus, O.
Sheffield Car Co., Three Rivers, Mich.
Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
Truax Mfg. Co., Denver, Col.
Watt Mining Car Wheel Co., Barnesville, O.
Whitman Agricultural Co. (Wood), 6900 S B'way, St. Louis, Mo.


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## 1417— Cars (Coke)

**ATLAS CAR & MFG. CO. (Quenching), 1289 Marquette rd, N. E., Cleveland, O.** (See adv. index, end of book)
Industrial Car Co. (Steel), West Park, O.
**JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)**
Ralston Steel Car Co., Columbus, O.

## 1417a—Cars (Commercial, Gasoline)

**CHICAGO PNEUMATIC TOOL CO.** ("Little Giant"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1418— Cars (Concrete)

(See also Carts, Concrete)

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N. E., Cleveland, O.** (See adv. index, end of book)
Blaker, J. L. ("Blaker," Dumping), Blaker Mills, W. Va.
Chase Foundry & Mfg. Co., Columbus, O.
Continental Car & Equipment Co., 45 E 17th, New York
**INSLEY MFG. CO. (Controllable** Side Dump & Bottom Dump), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Industrial Car Co. (Steel), West Park, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel End Dump), Columbus, O.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
Ohio Ceramic Engineering Co., Cleveland, O.
Peteler Car Co., Minneapolis, Minn.
Queen City Brick Machine Co., Travers City, Mich.
Ralston Steel Car Co., Columbus, O.
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)
Sackett, H. B. Screen & Chute Co., 1685 Elston av, Chicago, Ill.


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## 1418a—Cars (Concrete Block)

(See Cars, Concrete)

## 1419— Cars (Core Oven)

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N. E., Cleveland, O.** (See adv. index, end of book)
Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Eagle Foundry & Machine Co., Fort Scott, Kans.
Erie Car Works, Erie, Pa.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., W. New Brighton, S. I., N. Y.
Industrial Car Co., West Park, O.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.


**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

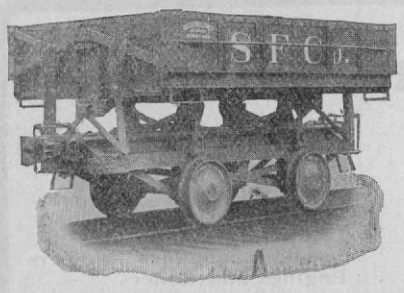

**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich.** (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)


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**ERNST WIENER COMPANY**
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## 1419a— Cars (Derrick)

**CLYDE IRON WORKS (Mounted on** Car), Duluth, Minn. (See adv. index & branch offices, end of book)

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# Heavy Duty Dump Cars

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RUSSEL WHEEL AND FOUNDRY CO.
DETROIT, MICH.


## 1420—Cars (Drop Bottom)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N. E., Cleveland, O. (See adv. index, end of book)
Barney & Smith Car Co., Dayton, O.
Buffalo Pitts Co., Buffalo, N. Y.
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Continental Car & Equipment Co., 45 E 17th, New York
Dederick's, P. K. Sons (Wood), Albany, N. Y.
Erie Car Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Haskell & Barker Car Co., Michigan City, Ind.
Helmick Fdry & Machine Co., Fairmont, W. Va.
**INSLEY MFG. CO. (Controllable** Concrete), Indianapolis, Ind. (See adv. index & branch offices. end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Peteler Car Co., Minneapolis, Minn.
Ralston Steel Car Co. (100,000 lbs. Capacity), Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.
Whitmore Agricultural Co., St. Louis, Mo.


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ERNST WIENER
·COMPANY·
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## 1421— Cars (Dryer)

**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N. E., Cleveland, O. (See adv. index, end of book)
Bonnot Co., Canton, O.
Chambers Bros. Co., 52d below Lancaster av, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Erie Car Works, Erie, Pa.
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Magor Car Co., 50 Church, New York
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Means Engineering & Foundry Co., Toronto, O.
Ohio Ceramic Engineering Co., Cleveland, O.


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COMPANY
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)


Peteler Car Co., Minneapolis, Minn.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)


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## 1422— Cars (Dumping)

(See also Cars, Mine)

Akron Cultivator Co. (Hand Dump), Akron, O.
American Car & Foundry Co. ("Page" Patented), 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Clay Machinery Co. (Steel & Wood), Bucyrus, O.
**ARCHER IRON WORKS CO. (Hand** Dump & Rotary Dumping), 34th pl & Western av, Chicago, Ill. (See adv. index. end of book)
**ATLAS CAR & MFG. CO. (End, Bottom,** Either Side, Rocker, Rotary, etc.), 1289 Marquette rd, N. E., Cleveland, O. (See adv. index, end of book)
Austin Mfg. Co., Chicago, Ill.
Bergen Point Iron Works, Bayonne, N. J.
Bonnot Company, Canton, O.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buffalo Pitts Co. (Contractors), Buffalo, N. Y.
**CARLIN'S, THOS. SONS CO. (Contract**ors' Self-Dumping), Oliver bldg, Pittsburg, Pa. (See adv. index. end of book)
**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index. end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Cockburn Co. (Steel), Jersey City, N. J.
Continental Car & Equipment Co., 45 E 17th, New York
Davis, F. M. Iron Works, Denver, Colo.
Dederick's, P. K. Sons (Wood), Albany, N. Y.
Denver Engineering Works, Denver, Colo.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices. end of book)
Eagle Foundry & Machine Co. (Contractors). Erie Car Works, Erie, Pa. Fort Scott, Kans.
**EXETER MACHINE WORKS, Pitts**ton, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. (Side,** Rotary, Hopper, Center & Bottom Dump, etc., Wood & Steel), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Haskell & Barker Car Co., Michigan City, Ind.
Helmick Fdry & Machine Co., Fairmont, W. Va.
Honhorst, Joseph Co., Cincinnati, O.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Industrial Car Co. (Steel), West Park, O.
**INSLEY MFG. CO. (Controllable** Side & Bottom. Concrete), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Inter-State Car Co., Indianapolis, Ind.
Irwin Foundry & Mine Car Co. (Contractors, etc.), Irwin, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co. (Contractors'), Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co. (Steel Rocker Slide, Bottom Dump, etc.), Columbus, O.
King-Lawson Car Co. ("King-Lawson," All Steel, Right or Left Dump), 149 B'way, New York
Lima Locomotive & Machine Co. (Steel), Lima, O.
**LINK BELT COMPANY (Side & Bot**tom Dump, etc.), Hunting Park av & Reading Ry., Phila., Pa. (See adv. index, end of book)
Luedinghaus-Espenschild Wagon Co., St. Louis, Mo.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
**MEAD-MORRISON MFG. CO., Cam**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Ohio Ceramic Engin'g Co. (Steel Body Side Rocker Dump, Steel Body End Dump & Wood Body End Dump), Cleveland, O.
Oliver, Wm. J. Mfg. Co. (Contractors' All Steel Frame Cars, Automatic Couplers & Air Brakes), Knoxville, Tenn.


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Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)


Peteler Car Co., Minneapolis, Minn.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Port Huron Engine & Thresher Co. (For Hauling Stone, Gravel, etc., for Macadam Roads), Port Huron, Mich.
Portland Co., Portland, Me.
Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works (Side, End & Bottom Dump), Hillburn, N. Y.
Raymond, C. W. Co., Dayton, O.
Rodgers Ballast Car Co. ("Hart" Convertible), Railway Exchange bldg., Chicago, Ill.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Sanford-Day Iron Works, Knoxville, Tenn.
Sheffield Car Co. (End, Side, Rotary, Rocker & Centre), Three Rivers, Mich.
Stedman's Foundry & Machine Works (For Fertilizer Works), Aurora, Ind.
Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
Treadwell, M. H. Co., 90 West, New York
Truax Mfg. Co. (Jno. T. Plummer, Prop.), (Steel), Denver, Colo.
Turl's, Jno. Sons (End, Side & Bottom), 26 Cortlandt, New York
Union Iron Works (Steel), Hoboken, N. J.
Western Wheeled Scraper Co. (Bottom & Side Dump), Aurora, Ill.

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## 1423–Cars (Dumping, Railroad)

Buda Co., Railway Exchange bldg., Chicago, Ill.
Goodwin Car Co., 17 Battery pl, New York
Ralston Steel Car Co., Columbus, O.

## 1423a–Cars (Electric Conveying)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 1423b– Cars (Fibre)

**AMERICAN VULCANIZED FIBRE CO.** Factory, etc.), Wilmington, Del. (See adv. index, end of book)

## 1424– Cars (Flat)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N. E., Cleveland, O. (See adv. index, end of book)
**Baltimore Steel Car & Foundry Co., Baltimore, Md.**
Barney & Smith Car Co. (Steel & Wood), Dayton, O.
Bettendorf Axle Co. (All Steel), Davenport, Ia.
Cambria Steel Co. (Steel), Johnstown, Pa.
**CARLIN'S, THOS. SONS CO. (Contractors'), Oliver bldg, Pittsburg, Pa.** (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Continental Car & Equipment Co., 45 E 17th, New York
Erie Car Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Co. (Ltd.), Lodi, N. J.
Haskell & Barker Car Co., Michigan City, Ind.
**INSLEY MFG. CO. (Skeleton Steel** Frame Industrial), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel, Narrow Gauge), Columbus, O.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.


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Peteler Car Co., Minneapolis, Minn.
Portland Co., Portland, Me.
Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO.** (For Handling Lumber), Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co. (Wood), Three Rivers, Mich.
Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
Western Wheeled Scraper Co., Aurora, Ill.


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## 1425– Cars (Foundry)

Aetna Foundry & Machine Co., Warren, O.
Akron Cultivator Co., Akron, O.
**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N. E., Cleveland, O. (See adv. index, end of book)
Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
Chase Foundry & Mfg. Co., Columbus, O.
Erie Car Works, Erie, Pa.
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, N. Y.
Industrial Car Co., West Park, O.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel Cupola, Flat, etc.), Columbus, O.
Magor Car Co., 50 Church, New York
Ohio Ceramic Engineering Co., Cleveland, O.


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Peteler Car Co., Minneapolis, Minn.
Ralston Steel Car Co., Columbus, O.
**RUSSEL WHEEL & FOUNDRY CO.**, Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.
Variety Iron & Steel Works Co. (For Steel Works, etc.), Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)


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## 1426– Cars (Freight)

American Car & Equipment Co., 84 Van Buren, Chicago, Ill. Works, Chicago Hgts., Ill.
American Car & Foundry Co. (Wooden & Steel), St. Louis, Mo., & 165 B'way, New York
Baltimore Steel Car & Foundry Co. (Metal, Wood & Composite), Baltimore, Md.
Barney & Smith Car Co. (Steel & Wood), Dayton, O.
Brill, J. G. Co., 62nd & Woodland av, Phila., Pa.
Cambria Steel Co. (Steel), Johnstown, Pa.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Erie Car Works, Erie, Pa.
Gregg Co. (Ltd.), Lodi, N. J.
Hammond, J. & Co., San Francisco, Cal.
Haskell & Barker Car Co., Michigan City, Ind.
Keith Car & Mfg. Co., Sagamore, Mass.
Laconia Car Co., 100 Boylston, Boston, Mass.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Magor Car Co., 50 Church, New York
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.


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Peteler Car Co., Minneapolis, Minn.
Portland Co., Portland, Me.
Pressed Steel Car Co. (Steel), Pittsburg, Pa.
Pullman Co., Pullman bldg, Chicago, Ill.
Ralston Steel Car Co. (Steel & Wooden), Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
Standard Steel Car Co. (All Steel & Composite Steel & Wood), Frick bldg., Pittsburg, Pa.
West Pullman Car Works, 120th & Peoria, Chicago, Ill.
Western Steel Car & Foundry Co. (Wood & Steel), Old Colony bldg, Chicago, Ill.


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## 1427–Cars (Gable Bottom)


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## 1428– Cars (Gas Coke)

Akron Cultivator Co., Akron, O.
Chase Foundry & Mfg Co., Columbus, O.
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, N. Y.
Magor Car Co., 50 Church, New York


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Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.

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## 1429— Cars (Gondola)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
Barney & Smith Car Co., Dayton, O.
Cambria Steel Co. (Also Steel Hopper Gondola), Johnstown, Pa.
Continental Car & Equipment Co., 45 E 17th, New York
Erie Car Works, Erie, Pa.
Magor Car Co. (Steel), 50 Church, New York
Peteler Car Co., Minneapolis, Minn.
Ralston Steel Car Co. (Self-Cleaning Drop Bottom, Capacity 100,000 lbs.), Columbus, Ohio
Rodgers Ballast Car Co. ("Hart" Convertible), Railway Exch bldg., Chicago, Ill.

## 1430—Cars (Hand & Push)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N. E., Cleveland, O. (See adv. index, end of book)
Buda Co., Railway Exch bldg., Chicago, Ill.
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Fdry Co., Chattanooga, Tenn.
Continental Car & Equipment Co., 45 E 17th, New York
Dederick's, P. K. Sons, Albany, N. Y.
**EXETER MACHINE WORKS, Pittston,** Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, N. Y.
Kalamazoo Railway Supply Co. (Section), Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Magor Car Co., 50 Church, New York

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Portland Co., Portland, Me.
Peteler Car Co., Minneapolis, Minn.
Portland Co., Portland, Me.
Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO., Detroit.** Mich. (See adv. index, end of book)
Sheffield Car Co. (Steel), Three Rivers, Mich.
Standard Scale & Supply Co. (Hand), 243 Water, Pittsburg, Pa.
Whitman Agricultural Co. (Wood), 6900 S. B'way, St. Louis, Mo.

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## 1431— Cars (Hopper)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Cambria Steel Co. (Steel), Johnstown, Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Continental Car & Equipment Co., 45 E 17th, New York
Erie Car Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
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Ralston Steel Car Co., Columbus, O.

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## 1432—Cars (Hot Metal or Slag)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N. E., Cleveland, O. (See adv. index, end of book)
Byram Co. (Inc.), 435 Guoin, Detroit, Mich.
Connelly, D. Boiler Co., Cleveland, O.
Davis, F. M. Iron Works Co. (Slag), Denver, Colo.
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
**JACKSON MFG. CO., 50 Church, New York,** & Harrisburg, Pa. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Magor Car Co., 50 Church, New York

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Penna. Engineering Works, New Castle, Pa.
Pollock, Wm. B. Co. ("P. T. Berg," for Cinder & Hot Metal), Youngstown, O.
Ramapo Iron Works, Hillburn, N. Y.
Sheffield Car Co., Three Rivers, Mich.
Treadwell, M. H. Co., 90 West, New York
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
Weimer Machine Works Co. (Any Capacity & Style), Lebanon, Pa.
Wellman-Seaver-Morgan Morgan Co. ("Dewhurst"), Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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## 1433— Cars (Industrial)

(See also Railways, Industrial & Portable)
**ACME EQUIPMENT & ENGINEERing** Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Akron Cultivator Co., Akron, O.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
Beaumont, R. H. Co., Drexel bldg, Phila., Pa.
Buda Co., Railway Exch. bldg., Chicago, Ill.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Continental Car & Equipment Co., 45 E 17th, New York
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**EXETER MACHINE WORKS, Pittston,** Pa. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, N. Y.
Industrial Car Co., West Park, O.
**INSLEY MFG. CO. (Skeleton Steel** Frame Flat), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
**MEAD-MORRISON MFG. CO., Cambridge** (Boston), Mass. (See adv. index & branch offices, end of book)
**MUNDY, J. S. (Self-Propelling), 22** Prospect. Newark, N. J. (See adv. index & branch offices, end of book)

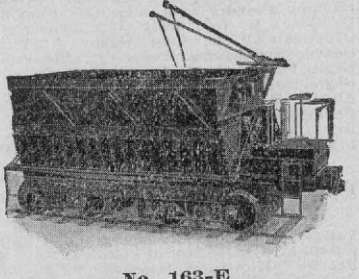
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Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO., Detroit.** Mich. See adv. index, end of book)
Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
Treadwell, M. H. Co., 90 West, New York



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## 1434— Cars (Ingot)

**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., W New Brighton, S. I., N. Y.
Magor Car Co., 50 Church, New York
Mesta Machine Co., Pittsburg, Pa.
Ohio Ceramic Engineering Co., Cleveland, O.

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Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Pennsylvania Engineering Works, New Castle, Pa.
Sheffield Car Co. (Steel), Three Rivers, Mich.
Treadwell, M. H. Co., 90 West, New York
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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Youngstown Foundry & Machine Co., Youngstown, O.

## 1435— Cars (Inspection)

(See also Cars, Motor, Inspection)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Buda Co., Railway Exch. bldg., Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kalamazoo Ry. Supply Co., Kalamazoo, Mich.
Light Inspection Car Co., Hagerstown, Ind.
Magor Car Co., 50 Church, New York
**Olds Motor Works ("Oldsmobile"), Lansing, Mich.**

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Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**Sheffield Car Co., Three Rivers, Mich.**

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## 1435a—Cars (Interurban Gasoline)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## Cars (Ladle)

(See Cars, Foundry)

## 1436—Cars (Liquid Cinder)

(See also Cars, Hot Metal & Slag)

Hartman Co. (End & Side Dump), 1231 N Front, Phila., Pa.
Weimer Machine Works Co. (Hand or Power Dump, Air, Electric & Steam Power), Lebanon, Pa.

## 1437— Cars (Logging)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Barney & Smith Car Co., Dayton, O.
Butterworth & Lowe, Grand Rapids, Mich.
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Climax Mfg. Co., Corry, Pa.
Continental Car & Equipment Co., 45 E 17th, New York
Dilley Foundry Co., Pine Bluff, Ark.
Dilley, Geo. M. & Son, Palestine, Tex.
Erie Car Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Co. (Ltd.), Lodi, N. J.
Hammond, J. & Co., San Francisco, Cal.
Helmick Fdry & Machine Co., Fairmont, W. Va.
Holt Mfg. Co., Stockton, Cal.
Lima Locomotive & Machine Co., Lima, O.
Magor Car Co., 50 Church, New York
Marshall Car Wheel & Fdry Co., Marshall, Tex.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Ohio Ceramic Engineering Co., Cleveland, O.

ORENSTEIN-ARTHUR KOPPEL
COMPANY
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Peteler Car Co., Minneapolis, Minn.
Piggott, Wm. Railway & Steel Supply Co., Seattle, Wash.
Portland Co. (Log Bunks), Portland, Me.
Raleigh Iron Works Co., Raleigh, N. C.
Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO., De**troit, Mich. (See adv. index, end of book)
Seattle Car Mfg. Co. (Flat Logging Cars), Seattle, Wash.
Sheffield Car Co., Three Rivers, Mich.
Tredegar Co., Richmond, Va.
Union Iron Works Co., Selma, Ala.

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## 1438—Cars (Mine & Ore)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
Austin Mfg. Co., Manhattan bldg, Chicago, Ill.
Barney & Smith Car Co., Dayton, O.
Bartlett, A. F. & Co., Saginaw, Mich.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buda Co., Railway Exch. bldg, Chicago, Ill.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Clark Car Co. (Steel Dumping), Pittsburg, Pa.
Connellsville Machine & Car Co., Connellsville, Pa.
Continental Car & Equipment Co., 45 E 17th, New York
Danville Foundry & Machine Co., Danville, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
**Dederick's, P. K. Sons, Albany, N. Y.**
Denver Engineering Works Co., Denver, Colo.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Eagle Iron Works (Coal & Ore), Des Moines, Ia.
Ellison, Wm. & Sons Mfg. Co., St. Louis, Mo.
Engineering Works, Van Buren, Ark.
Erie Car Works, Erie, Pa.
**EXETER MACHINE WORKS, Pitts**ton, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. (Wood &** Steel), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairmont Mining Machinery Co., Fairmont, W. Va.
Fulton Pit Car Co., Canal Fulton, O.
Focht's, Geo. Sons, Hoboken, N. J.
Globe Iron Works (Inc.), Stockton, Cal.
Goodwin Car Co., 17 Battery pl, New York
Gregg Co. (Ltd.), Lodi, N. J.
Gustafson Mfg. Co. ("Gustafson," Roller Bearing, Self-Oiling Wheels), Chattanooga, Tenn.
Harman & Hassert, Bloomsburg, Pa.
Haskell & Barker Car Co., Michigan City, Ind.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hempfield Foundry, Greensburg, Pa.
Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.
Hendy, J. Machine Works, San Francisco, Cal.
Herbertson's, J. Sons, Brownsville, Pa.
Herzler-Henninger Machine Wks, Belleville, Ill.
Hockensmith Wheel & Mine Car Co. (Steel), Penn Station, Pa.
Imperial Iron Works, Duluth, Minn.
Industrial Car Co. (Steel), West Park, O.
Irwin Foundry & Mine Car Co., Irwin, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kanawha Mine Car Co., Charleston, W. Va.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lake Shore Engine Works (Low Dump), Marquette, Mich.
Lansing Wheelbarrow Co. (Steel, etc.), Lansing, Mich.
Lehigh Car Wheel & Axle Wks., Catasauqua, Pa.
Leyner, J. Geo. Eng'g Wks. Co., Littleton, Col.
Litchfield Foundry & Machine Co., Litchfield, Ill.
McFarlane Mfg. Co., Denver, Colo.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Mineral Ridge Mfg. Co., Mineral Ridge, O.
Mount Vernon Car Mfg. Co., Mt. Vernon, Ill.
**NATIONAL IRON CO. (Side & End** Dump), Duluth, Minn. (See adv. index, end of book)
National Iron Works (Inc.), Spokane, Wash.
Nelsonville Foundry & Machine Co., Nelsonville, O.
Niles Mine & Mill Supply Co., Cleveland, O.
Ohio Ceramic Engineering Co., Cleveland, O.

ORENSTEIN-ARTHUR KOPPEL
COMPANY
(Steel), Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Ottumwa Box Car Loader Co., Ottumwa, Ia.
Ottumwa Iron Works, Ottumwa, Ia.
Pennsylvania Engineering Works, New Castle, Pa.
Peteler Car Co., Minneapolis, Minn.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
Phillips Mine & Mill Supply Co. (Steel & Wood), Pittsburg, Pa.
Portsmouth Machine & Casting Co., Portsmouth, O.
Prox, Frank Co., Terre Haute, Ind.
Punxsutawney Foundry & Machine Co., Punxsutawney, Pa.
Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO., De**troit, Mich. (See adv. index, end of book)
Sanford-Day Iron Works, Knoxville, Tenn.
Sheffield Car Co., Three Rivers, Mich.
Silver Bros. Iron Works Co., Salt Lake City, Utah
Spicer Mfg. Co., New Philadelphia, O.
Star Boiler & Sheet Iron Works, Denver, Colo.
Star Mfg. Co., New Lexington, O.
Stine, S. B. Osceola Mills, Pa.
Stuebner, G. L. Iron Works, Long Island City, N. Y.
Suppes Forge & Foundry Co., Johnstown, Pa.
Traylor Engineering Co., Allentown, Pa.
Truax Mfg. Co., Denver, Colo.
Turl's, Jno. Sons (Inc.), 2 Cortlandt, New York
Union Iron Works (Inc.), Spokane, Wash.
Watt Mining Car Wheel Co. (Steel, etc.), Barnesville, O.

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## 1439—Cars (Motor, Inspection)

(See also Cars, Inspection; also Cars, Velocipede)

Buda Co., Railway Exchange bldg, Chicago, Ill.
**CHICAGO PNEUMATIC TOOL CO.** (Gasoline), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. (Gasoline),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

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MANUFACTURERS AND MANUFACTURERS' AGENTS

## COMPLETE CONTRACTORS' EQUIPMENT

**Cars, Steam Pile Hammers, Pumps, Engines, Mine Buckets, Wheelbarrows.**

**65 AND 67 DEY STREET, - NEW YORK.**


Kalamazoo R'y Sup. Co., Kalamazoo, Mich.
Light Inspection Car Co., Hagerstown, Ind.
Olds Motor Works (Gasoline), Lansing, Mich.
Sheffield Car Co. (Steel), Three Rivers, Mich.

### 1440—Cars (Observation, Gasoline Motor)

Plymouth Motor Truck Co., Plymouth, O.

### Cars (Ore)

(See Cars, Mine & Ore)

### 1441— Cars (Passenger)

**(See also Cars, Street & Electric)**

**American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York**
Barney & Smith Car Co. (Coaches, Sleepers, Dining, Private. Cafe, Baggage, Postal, Parlor, Observation, All Steel & Steel & Wood). Dayton, O.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
**FAIRBANKS, MORSE & CO.** (Gasoline Motor, Self-Propelled), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices. end of book)
Hammond, Jno. & Co., San Francisco, Cal.
Harlan & Hollingsworth Corp., Wilmington, Del.
Jewett Car Co., Newark, O.
Laconia Car Co. Works, 100 Boylston, Boston, Mass. Works, Laconia, N. H.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
**Niles Car & Mfg. Co., Niles, O.**
Pressed Steel Car Co. (All Steel), Pittsburg, Pa.
Pullman Co., Pullman bldg, Chicago, Ill.
St. Louis Car Co., St. Louis. Mo.


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### 1442— Cars (Pit)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chase Foundry & Mfg. Co., Columbus. O.
Helmick Fdry & Machine Co., Fairmont, W. Va.
Peteler Car Co., Minneapolis, Minn.
Stine, S. B., Osceola Mills. Pa.
United Iron Works Co., Springfield, Mo.


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### 1443— Cars (Plantation)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
**ATLAS CAR & MFG. CO., 1289 Marquette rd, N. E., Cleveland, O.** (See adv. index, end of book)
Brill. J. G. Co., 62d & Woodland av, Phila., Pa.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Cagney Bros., 74 B'way, New York
Chase Foundry & Mfg. Co., Columbus. O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Continental Car & Equipment Co., 45 E 17th, New York
Erie Car Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Hammond, Jno. & Co., San Francisco. Cal.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co. (Cane), Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Kilby Locomotive & Machine Works (Cane), Anniston, Ala.
Magor Car Co., 50 Church, New York


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Machesney bldg, Pittsburg. Pa. (See adv. index & branch offices, end of book)


Pioneer Iron Works, 149 Pioneer, Bklyn., N. Y.
Ralston Steel Car Co., Columbus, O.
Ramapo Iron Works, Hillburn. N. Y.
**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich.** (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.
Turl's. Jno. Sons (Inc.), 26 Cortlandt. New York


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### 1444—Cars (Plate & Sheet Mill)

**ATLAS CAR & MFG. CO. (Steel),** 1289 Marquette rd, N. E., Cleveland, O. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Focht's, Geo. Sons, Hoboken, N. J.
Gregg Co. (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Magor Car Co., 50 Church, New York


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Sheffield Car Co. (Steel), Three Rivers, Mich.
Weimer Machine Works Co., Lebanon, Pa.


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### 1445— Cars (Pole Road)

Butterworth & Lowe, Grand Rapids, Mich.

### 1446— Cars( Quarry)

**ALLIS-CHALMERS CO., Milwaukee.** Wis. (See adv. index & branch offices, end of book)
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
Chase Foundry & M'g. Co., Columbus, O.
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices. end of book)
Erie Car Works. Erie, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Magor Car Co., 50 Church, New York
Peteler Car Co., Minneapolis, Minn.
Power & Mining Machine Co. (Steel), Cudahy, Wis.
Ralston Steel Car Co., Columbus, O.
Truax Mfg. Co. (John T. Plummer, Prop.), Denver, Colo.
Watt Mining Car Wheel Co., Barnesville, O.


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### 1447—Cars (Railroad, Repaired or Rebuilt)

Grant Locomotive & Car Works, Houston, Tex.
Peteler Car Co., Minneapolis, Minn.

### 1448— Cars (Refrigerator)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Erie Car Works, Erie, Pa.
Milwaukee Car Mfg. Co., Milwaukee, Wis.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Ralston Steel Car Co., Columbus, O.
Whipple Car Co., 115 Adams, Chicago, Ill.

### Cars (Rock)

(See Cars, Quarry)

### 1449—Cars (Rotary Tunnel)

**(See also Cars, Tunnel)**

Ohio Ceramic Engin'g Co. (Steel Body Mining Scoop). Cleveland, O.
Peteler Car Co., Minneapolis, Minn.
Western Wheeled Scraper Co., Aurora, Ill.

### 1449a—Cars (Sand Blast)

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N. E., Cleveland, O.** (See adv. index, end of book)

### 1450—Cars (Second-Hand)

(See also Railroad Equipments, Second Hand)

Atlantic Equipment Co., 30 Church, New York
Baldwin Equipment & Supply Co. (Contractors', Dump, etc.). Fisher bldg, Chicago, Ill.
Cincinnati Equipment Co., Culloms Station, Cincinnati, O.
Erie Car Works, Erie, Pa.
Fitz-Hugh-Luther Co. (Passenger & Freight), Monadnock blk, Chicago, Ill.
Inter-State Car Co. (Contractors' Cars & Repairs, etc.), Indianapolis, Ind.
Magor Car Co., 50 Church, New York
Males Co., Cincinnati, O., & 26 Cortlandt. New York
Mitskkun, M. Co. (Second Hand), Chamber of Commerce, Detroit, Mich.
Shaw, Willis Machinery Co. (Dumping, Flat, etc.). 171 La Salle, Chicago, Ill.
Southern Iron & Equipment Co., Atlanta, Ga.
Watson, John B., Drexel bldg, Phila., Pa.
Zelnicker, Walter A., Supply Co. (All Kinds), St. Louis, Mo.

### 1450a— Cars (Section)

(See Cars, Hand & Push; also Cars, Inspection; also Cars, Motor, Inspection)

### 1451— Cars (Shop)

Akron Cultivator Co., Akron, O.
Chase Foundry & Mfg. Co., Columbus, O.
Conveying Machinery Co. (Steel), 120 Liberty, New York
Gregg Co. (Ltd.). Lodi, N. J.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Magor Car Co., 50 Church, New York


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**RUSSEL WHEEL & FOUNDRY CO.**, Detroit, Mich. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT Co.**, Harvey, Ill. (See adv. index & branch offices, end of book)

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Zering, H. Mfg. Co. (Track & Floor, Platform Track, etc.), Cincinnati, O.

## 1452—Cars (Side Dump)

**INSLEY MFG. CO. (Controllable** Concrete), Indianapolis, Ind. (See adv. index & brnach offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

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## 1452a—Cars (Signal Maintainers, Gasoline)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1453— Cars (Skip)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Industrial Car Co., West Park, O.
Eagle Foundry & Machine Co., Fort Scott, Kans.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.
Peteler Car Co., Minneapolis, Minn.
**RANSOME CONCRETE MACHINERY Co.** (Self-Dumping), Dunellen, N. J. (See adv. index & branch offices, end of book
Sheffield Car Co., Three Rivers, Mich.
Truax Mfg. Co., Denver, Col.
Turl's, Jno. Sons, 26 Cortlandt, New York
Wellman-Seaver-Morgan Co., Cleveland, O.

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## Cars (Slag)

(See Cars, Hot Metal or Slag)

## 1454— Cars (Spreader)

Buffalo Pitts Co. (Stone Only), Buffalo, N. Y.
Continental Car & Equipment Co., 45 E 17th, New York
Mann-McCann Co. ("McCann's" & "Mann" Spreader & Grader), Fisher bldg., Chicago.
Western Wheeled Scraper Co., Aurora, Ill. Ill.

## 1455—Cars (Sprinkling, Street Railway)

American Car Sprinkler Co., Worcester. Mass.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Kensington Engine Works Co., Beach c E Berks. Phila., Pa
McGuire-Cummings Mfg. Co., 400 N Sangamon. Chicago, Ill
Smith & Wallace Co. (Electric), Woburn, Mass.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Winkler Bros. Mfg. Co., South Bend, Ind.

## 1456—Cars (Steam Shovel)

Baltimore Steel Car & Foundry Co., Baltimore, Md.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Two Way Dump), Columbus, O.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
**MARION STEAM SHOVEL CO., West** Center, Marion, O. (See adv. index & branch offices, end of book)
Western Wheeled Scraper Co., Aurora, Ill.

## 1457— Cars (Steel)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Baltimore Steel Car & Foundry Co., Continental bldg, Baltimore, Md.
Barney & Smith Car Co., Dayton, O.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Bethlehem Steel Co., South Bethlehem, Pa.
Bettendorf Axle Co. (All Steel), Davenport, Ia.
Cambria Steel Co., Johnstown, Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Continental Car & Equipment Co., 45 E 17eh, New York
Crawford Locomotive & Car Co. (Rebuilt), Erie Car Works, Erie, Pa. Streator, Ill.
Goodwin Car Co., 17 Battery pl, New York.
Harlan & Hollingsworth Corp., Wilmington, Del.
**INSLEY MFG. CO. (Industrial & Con**crete), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Lima Locomotive & Machine Co. (Steel Dump). Lima, O.
Magor Car Co., 50 Church, New York
Ohio Ceramic Engineering Co., Cleveland, O.
Pressed Steel Car Co. (Street, Tank, Mine, Coal, etc.), Pittsburg, Pa.
Ralston Steel Car Co. (All Classes of Cars), Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
Standard Steel Car Co., Butler, Pa.
Warren Steel Car Works, Warren, Pa.
Wellman-Seaver-Morgan Co. (Industrial), Cleveland, O.
Western Steel Car & Foundry Co., Old Colony bldg, Chicago, Ill.

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## 1458—Cars (Steel Mining & Dump)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Co. (Ltd.), Lodi, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Lansing Wheelbarrow Co., Lansing, Mich.
Lima Locomotive & Machine Co., Lima, O.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Peteler Car Co., Minneapolis, Minn.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Pressed Steel Car Co., Pittsburg, Pa.
Ramapo Iron Works, Hillburn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)**
Sheffield Car Co., Three Rivers, Mich.
Standard Steel Car Co. (All Steel & Composite Steel & Wood, Freight), Butler, Pa.
Stephens-Adamson Mfg. Co. ("S-A"), Aurora, Ill.
Truax Mfg. Co., Denver, Colo.

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## 1458a—Cars (Storage Battery)

**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)

## 1459—Cars (Street & Electric)

American Car Co. (See J. G. Brill Co.), St. Louis, Mo.
American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Barney & Smith Car Co., Dayton, O.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Cincinnati Car Co., Cincinnati, O.
Electric Service Supplies Co. ("Pay-Within" Car), Phila., Pa.
**GENERAL ELECTRIC CO. (Self Pro**pelled), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Hammond, Jno. & Co., San Francisco, Cal.
Jewett Car Co., Newark, O.
Jones', J. M. Sons, Watervliet, N. Y.
Kuhlman, G. C. Car Co. (See J. G. Brill Co.), Collinwood, O.
Laconia Car Co. Works, 100 Boylston, Boston, Mass. Works: Laconia, N. H.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Niles Car & Mfg. Co., Niles, O.
Pay-As-You-Enter Car Co., 50 Church, New York
Pressed Steel Car Co. (Pressed Steel), Pittsburg, Pa.
Pullman Co., Pullman bldg, Chicago, Ill., & 15 Broad, New York
St. Louis Car Co., St. Louis, Mo.
Sheffield Car Co, Three Rivers, Mich.
Southern Car Co., High Point, N. C.

## Cars (Sugar Cane)

(See Cars, Plantation)

**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

*When writing to firms whose names appear in this book please mention*

**Hendricks' Commercial Register**

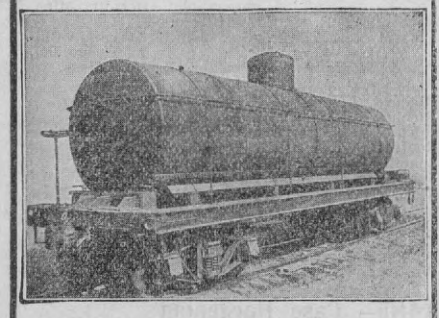
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## 1460— Cars (Tank)

(See also Tanks, Car)

Allegheny Foundry Co. (Steel), Warren, Pa.
American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Bettendorf Axle Co. (All Steel), Davenport, Ia.
Bryan, E. A. Co., 119 Monroe, Chicago, Ill. Works: Harvey, Ill.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Chicago Steel Car Co., 164 Dearborn, Chicago, Ill.
Erie Car Works, Erie, Pa.
German-American Car Co. (Steel), Amerecan Trust bldg., Chicago, Ill.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)


K TANK CARS K



STEEL TANK CARS
UNDERFRAMES
REINFORCERS
STEEL FREIGHT CARS

THE KENNICOTT COMPANY

Sales Office:
Corn Exchange Bank Bldg.,
Chicago, Ill., U. S. A.

K Works: Chicago Heights, Ill., U. S. A. K


**KENNICOTT CO. (Steel), Sales Office,** Corn Exchange Bank bldg. Chicago, Ill. (See adv. index & branch offices, end of book)
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Magor Car Co., 50 Church, New York
Milwaukee Car Mfg. Co., Milwaukee, Wis.
Peteler Car Co., Minneapolis, Minn.
Pressed Steel Car Co. (Steel), Pittsburg, Pa.
Ralston Steel Car Co., Columbus, O.
**REEVES BROS. CO. (Oil & Acid** Transporter), Alliance, O. (See adv. index, end of book)

## 1460a— Cars (Tie)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1461— Cars (Tipple)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)


RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
·COMPANY·


475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 1462—Cars (Tower Hand)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

## 1463—Cars (Track Laying)

Baltimore Steel Car & Foundry Co., Baltimore, Md.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Chase Foundry & Mfg. Co., Columbus, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Co. (Ltd.), Lodi, N. J.
Kalamazoo R'y Sup. Co., Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Ohio Ceramic Engineering Co., Cleveland, O.
Peteler Car Co., Minneapolis, Minn.
Ramapo Iron Works, Hillburn, N. Y.
Sheffield Car Co., Three Rivers, Mich.

## 1463a—Cars (Traction Engine)

**ELECTRIC WHEEL CO. (Heavy** Truck Cars), Quincy, Ill. (See adv. index, end of book)

## 1464— Cars (Tram)

Chase Foundry & Mfg. Co., Columbus, O.
Gregg Co. (Ltd.), Lodi, N. J.
Helmick Fdry & Machine Co., Fairmont, W. Va.
Hendy, Joshua Iron Works, San Francisco, Cal.


ORENSTEIN-ARTHUR KOPPEL
COMPANY


Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Ramapo Iron Works, Hillburn, N. Y.
Truax Mfg. Co., Denver, Colo.
Union Iron Works (Inc.), Spokane, Wash.


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## 1465— Cars (Transfer)

Anderson Foundry & Machine Works (For Brick Yards, etc.), Anderson, Ind.
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N. E., Cleveland, O. (See adv. index, end of book)
Bonnot Company (Double Transfer), Canton, O.
Chambers Bros. Co., 52d, below Lancaster av, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Gregg Co. (Ltd.), Lodi, N. J.
Helmick Foundry & Machine Co., Fairmont, W Va.
Kent Machine Co., Kent, O.
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus
Magor Car Co., 50 Church, New York Ohio
Morton Dry Kiln Co., 218 Lasalle, Chicago, Ill.
North Coast Dry Kiln Co., Seattle, Wash.
Ohio Ceramic Engineering Co., Cleveland, O.


ORENSTEIN-ARTHUR KOPPEL
COMPANY


Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Peterler Car Co., Minneapolis, Minn.
**RUSSEL WHEEL & FOUNDRY CO.** (Steel), Detroit, Mich. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)


RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
·COMPANY·


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## 1466—Cars (Trolley Repair)

Sheffield Car Co., Three Rivers, Mich.

## 1467— Cars (Tunnel)

Bettendorf Axle Co. (All Steel), Davenport, Ia.
Gregg Co. (Ltd.), Lodi, N. J.
Hendy, Joshua Iron Works, San Francisco, Cal.


ORENSTEIN-ARTHUR KOPPEL
COMPANY


Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Sheffield Car Co., Three Rivers, Mich.


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ERNST WIENER
·COMPANY·


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## 1468— Cars (Velocipede)

(See also Cars, Inspection; also Cars, Motor Inspection)

Buda Co., Railway Exch. bldg., Chicago, Ill.
Concrete Form & Engine Co. (Equiped with Belle Isle Gas Engine), Detroit, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kalamazoo R'y Sup. Co., Kalamazoo, Mich.
Light Inspection Car Co., Hagerstown, Ind.
Sheffield Car Co., Three Rivers, Mich.

## Cars (Velocipede, Gasoline Motor)

(See Cars, Motor Inspection)

## Cars (Warehouse & Factory)

(See Trucks. Store, Warehouse, Etc.)

## Cars (Wrecking)

(See Cranes, Wrecking)

## 1468a—Cartons (Round Paper)

**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)

## 1469— Cartridge Mfrs.

Chamberlain Cartridge & Target Co., Cleveland, Ohio
Hydraulic Mining Cartridge Co. (Hydraulic Mining), 42 B'way, New York
Liberty Cartridge Co., Mt. Carmel, Conn.
National Cartridge Co., Belleville, Ill.
Peters Cartridge Co., Cincinnati, O.
Robin Hood Ammunition Co. (Metallic), Swanton, Vt.
Savage Arms Co., Utica, N. Y.
Southern Cartridge Co., Savannah, Ga.
Union Metallic Cartridge Co. ("U. M. C."), Bridgeport, Conn.
U. S. Cartridge Co. ("Climax"), Lowell, Mass.
Western Cartridge Co., Alton, Ill.
Winchester Repeating Arms Co., New Haven, Conn.

## Carts (Barrel)

(See Carts, Hand & Barrel)

## 1470— Carts (Coal)

(See also Wagons, Coal)

Evans, F. H., 31 Hewes, Brooklyn, N. Y.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Lansing Wheelbarrow Co., Lansing, Mich.
Milburn Wagon Co., Toledo, O.

## 1471— Carts (Concrete)

(See also Cars, Concrete; also Wagons, Asphalt, Etc.)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Briggs Labor Saving Specialty Co., Waterloo, Iowa
**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
**KOEHRING MACHINE CO., Milwau**kee, Wis. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co., Milwaukee, Wis. (See adv. index & branch offices, end of book)
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)
Sackett, H. B. Screen & Chute Co., 1685 Elston av, Chicago, Ill.
**SMITH, T. L., CO., THE, Majestic Bldg.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Sterling Wheelbarrow Co. ("Sterling" Roller-Bearing Wheels), West Allis, Wis.
Toledo Wheelbarrow Co. ("Bull Frog"), Toledo, O.
Wallace-Lindesmith Hoist Co., Los Angeles, Cal.

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## 1472—Carts (Concrete Spreading Dump)

Goit Mfg. Co. (Inc.) ("Goit"), Oklahoma City, Okla.

## 1473—Carts (Crushed Ice)

Gifford-Wood Co., Hudson, N. Y.

## 1474— Carts (Dumping)

(See also Wagons, Dumping)

Ames Plow Co., Quincy Hall, Boston, Mass.
Briggs Labor Saving Specialty Co. ("Lightning"), Waterloo, Ia.
Dederick's, P. K. Sons, Albany, N. Y.
**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fish Bros. Wagon Co., Racine, Wis.
Fort Smith Wagon Co., Fort Smith, Ark.
Great Western Mfg. Co., Leavenworth, Kans.
Hill, Thos. (Steel), Jersey City, N. J.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kentucky Wagon Mfg. Co., Louisville, Ky.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wagon Works, Lansing, Mich.
Lansing Wheelbarrow Co., Lansing, Mich.
Luedinghaus-Espenschied Wagon Co., St. Louis, Mo.
Millburn Wagon Co., Toledo, O.
Owensboro Wagon Co., Owensboro, Ky.
**RANSOME CONCRETE MACHINERY** Co. (For Concrete), Dunellen, N. J. (See adv. index & branch offices, end of book)
Schuttler, Peter Co., 22d & Rockwell, Chicago, Ill.
Smith & Sons Mfg. Co., Kansas City, Mo.
Streich, A. & Bro. Co., Oshkosh, Wis.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Sweet, B. F. & H. L. Co., Fond-du-Lac, Wis.
Tiffin Wagon Co., Tiffin, O.
Watson Wagon Co., Canastota, N. Y.
Wellington Machine Co. (Brick, etc.), Wellington, O.
Western Wheeled Scraper Co., Aurora, Ill.
White Hickory Wagon Mfg. Co., East Point, Ga.
Winona Wagon Co., Winona, Minn.
Wright, Thos. Co., Jersey City, N. J.
Zering, H. Mfg. Co., Cincinnati, O.

## Carts (Garbage)

(See Wagons, Garbage, Etc.)

## 1475—Carts (Hand & Barrel)

Ames Plow Co., Boston, Mass.
Anchor Bolt & Nut Co. (Barrel), Poughkeepsie, N. Y.
Aubeuf, Frank J., Oneida, N. Y.
Bateman Mfg. Co., Grenlach, N. J.
Belle City Mfg. Co., Racine, Wis.
Brown-Manly Plow Co., Malta, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gendron Wheel Co., Toledo, O.
Havana Metal Wheel Co., Havana, Ill.
Hayes Pump & Planter Co., Galva, Ill.
Illinois Implement Co., Peoria, Ill.
Keystone Farm Machine Co. (With Combined Truck), York, Pa.
Kilbourne & Jacobs Mfg. Co. ("St. Louis." "Jubilee," "Buckeye," Hand), Columbus, O.
La Crosse Plow Co. (Barrell), La Crosse, Wis.
Lansing Wheelbarrow Co., Lansing, Mich.
Lean, Roderick Mfg. Co. ("Butler" Steel Hand Cart), Mansfield, O.
Minneapolis Plow Works, Minneapolis, Minn.
Monarch Road Roller Co. ("Monarch"), Groton, N. Y.
Ohio Ceramic Engineering Co., Cleveland, O.
Parlin & Orendorff Co., Canton, Ill.
Puffer-Hubbard Mfg. Co. (Steel Wheel), Minneapolis, Minn.
Sandwich Mfg. Co., Sandwich, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Streich, A. & Bro .Co. ("Lumbermen's Hand Carts"), Oshkosh, Wis.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.
Zering, H. Mfg. Co., Cincinnati, O.

## Carts (Hose)

(See Hose Carriages & Carts)

## 1475a—Carts (Hose, Hand)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1476— Carts (Linemen's)

(See also Wagons, Trolley; also Cars, Trolley Repair)

Dicke Tool Co., Downers Grove, Ill.

## 1477— Carts (Logging)

**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)
Lansing Wheelbarrow Co., Lansing, Mich.
Schwartz, Jos. Co. (Ltd.), New Orleans, La.
Southern Hardware & Supply Co., Mobile, Ala.
Streich A. & Bro. Co., Oshkosh, Wis.

## 1478— Carts (Lumber)

**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)

## 1479— Carts (Nail)

**JACKSON MFG. CO., 50 Church, New York.** (See adv. index & branch offices, end of book)

## 1480—Carts (Pickup or Beam)

**DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y.** (See adv index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.

## Carts (Push)

(See Carts, Hand & Barrel)

## 1481— Carts (Railroad)

Ames Plow Co., Quincy Hall, Boston, Mass.
Bain Wagon Co., Kenosha, Wis.
**JACKSON MFG. CO., 50 Church, New** York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Luedinghaus-Espenschied Wagon Co., St. Louis, Mo.
Milburn Wagon Co., Toledo, O.
Studebaker Bros. Mfg. Co., South Bend, Ind.

## 1482—Carts (Road Spreading)

**ACME EQUIPMENT & ENGINEER**ing Co. ("Doud's" Controllable), Garfield bldg, Cleveland, O. (See adv. index, end of book)
American Road Machine Co. (For Spreading Road Materials for Macadam Roads), Kennett Square, Pa.
Eagle Wagon Works, Auburn, N. Y.
Good Roads Machinery Co., Kennett Square, Pa.
Port Huron Engine & Thresher Co. (Also Wagons), Port Huron, Mich.

## 1483— Carts (Sprinkling)

(See also Street Sprinkling Carts & Wagons)
Kelly-Springfield Road Roller Co., Springfield, Ohio
Milburn Wagon Co., Toledo, O.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Studebaker Bros. Mfg. Co., South Bend, Ind.

## 1484—Carts (Street Cleaning Hand)

Menzies Street Cleaner Co. ("The Dust Pan Does It"), Glens Falls, N. Y.

## 1485—Carts (Three Wheel)

Streich, A. & Bro. Co., Oshkosh, Wis.

## 1486— Carvers (Stone)

Ellin, Kitson & Co., 25th & N. R., New York
Entress, Albert, Hartford, Conn.
Evans, John & Co., Boston, Mass.
Nygard, Alfred F., Detroit, Mich.
Richard, L. (Arch'l), 110 West End av, New York
Rochette & Parzini, 218 E 25th, New York
Schellentrager, Louis F., Cleveland, O.
Smith, Jos. & Co., 428 E 23d, New York
Van Maldern, F., 5th & Jumonville, Pittsburg, Pa.

## 1487—Carvers, Wood (Classic)

Adreansen, James, Rochester, N. Y.
American Carving & Mfg. Co., Grand Rapids, Mich.
**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Behm, Gustav, 710 W North av, Chicago, Ill.
Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
Buffalo Grille Co., 270 Court, Buffalo, N. Y.
Chicago Wood Carving Co., 1609 N Halsted, Chicago, Ill.
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Duchemin, Geo. W., 37 Wainwright, Newark, N. J.
Dux, Jos., 631 W Jackson boul., Chicago, Ill.
Ellin, Kitson & Co., 13th av, c W 25th, New York
Emmel, Chas. & Rose Co., Boston, Mass.
Evans, John & Co., Boston, Mass.
Fabry, T. P. J., Rochester, N. Y.
Gossert, Henry, 320 Harmony, Phila., Pa.
Grand Rapids Wood Carving Co., Grand Rapids, Mich.
Hartmann, Malcom Co., 153 N Jefferson, Chicago, Ill.
Kopriwa, E. Co., 2220 Ward, Chicago, Ill.
Lamb, J. & R. (Inc.), 25 6th av, New York
Nygard, Alfred F., 68 Cass, Detroit, Mich.
Ornamental Products Co. ("Lignive," Unbreakable), Detroit, Mich.
Peirce, W. E. & Co., Milford, N. H.
Plastic Relief Mfg. Co., 949 N Halsted, Chicago, Ill.
Pride, Willis A., 43 Bristol, Boston, Mass.
Reddinger, P. H., Evansville, Ind.
Richard, Louis, 110 West End av, New York
Riechey & Scheper, 65 14th, Newark, N. J.
Rochette & Parzini, 218 E 25th, New York
Root, C. R., Hartford, Conn.
Schellentrager, Louis F., Cleveland, O.
Schneider, F. H., Syracuse, N. Y.
**STEARNS, A. T. LUMBER CO., Ne**ponset, Boston, Mass. (See adv. index, end of book)
Thomas & Co., Worcester, Mass.
Van Maldern, F., 5th & Jumonville, Pittsburg, Pa.
Waddell Mfg. Co., Grand Rapids, Mich.
Weber & Rank, 1300 N Wood, Chicago, Ill.

## 1488— Case Hardening

(See also Compounds, Case Hardening & Tempering, also Steel Hardening)

Ashley Machine Works, Rochester, N. Y.
**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Bridgeport Metal Treating Co., Bridgeport, Conn.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Crosby Co., 171-189 Pratt, Buffalo, N. Y.
Durbrow & Hearne Mfg Co., 12 Wooster, New York
Matthews, H. A. Mfg. Co., Seymour, Conn.
Matthews Mfg. Co., Worcester, Mass.
National Cycle Mfg. Co., Bay City, Mich.
**SCOTT, C. U., Davenport, Ia.** (See adv. index, end of book)
Van Doren Mfg. Co., Chicago Heights, Ill.
Vincent Steel Process Co. ("Vincent" Process), Detroit, Mich.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 1489— Casein

Atterbury Bros. (Inc.) (French Imported), 38 Park row, New York
Casein Co. (of America), 11 Pine, New York
Duche, T. M. & Sons (Imported), 554 Broome, New York
Hamilton Co., 50 Church, New York
Klipstein, A. & Co. (Dealer), 127 Pearl, New York
Paper Makers' Chemical Co., Easton, Pa.

## 1489a— Cases (Bottlers')

Standard Box & Lumber Co., Pittsburg, Pa.

## 1490— Cases (Crank)

Rockhoff Foundry Co. (For Marine & Auto Engines), South Bend, Ind.

## 1491— Cases (Egg)

Anderson-Tully Co., Memphis, Tenn.
Beaufort Veneer & Package Co., Beaufort, S. C.
Carrier Lumber & Mfg. Co., Sardis, Miss.
Chicago Mill & Lumber Co., Chicago, Ill., & St. Louis, Mo.
Holley-Matthews Mfg. Co., Silkeston, Mo.
South Muscatine Lumber Co., Muscatine, Ia.
Weis-Peterson Box Co., Cairo, Ill.

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## 1492— Cases (Map)

**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)

## 1493—Cases (Mailing, for Liquids)

**REDLICH MFG. CO., 637 W Oak,** Chicago, Ill.

**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)

Western Box Co., 42 River, Chicago, Ill.

## 1494—Cases (Railroad Ticket)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl., New York. (See adv. index, end of book)

## 1495—Cases (Steel Bottle)

American Steel Package Co., Defiance, O.

## Cases (Suit)

(See Traveling Bags & Suit Cases)

## 1496— Cases (Tool)

Gerstner, H. & Sons ("Gerstner"), Dayton, O.
Pilliod Lumber Co. ("Pilliod"), Swanton, O.

## 1496a—Cases (Twist Drill)

**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## Casing (Oil Well)

(See Pipe & Tube Mills)

## 1497—Casings (Concrete Pile)

**SIMMONS, JOHN CO. ("Simmons"** Sectional"), 104 Centre, New York. (See adv. index, end of book)

## 1498—Casings (Steam Pipe)

(See also Pipe, Wooden)

American District Steam Co. (Asphaltum Pitch Coated Wood), North Tonawanda, N. Y.
Michigan Pipe Co. (Tin Lined Wood), Bay City, Mich.
Washington Pipe & Foundry Co., Tacoma, Wash.

**WYCKOFF, A. & SON CO. (Wyckoff** Patent Waterproof Wood), Elmira, N. Y., & Alexandria, La. (See adv. index, end of book)

## 1499—Casings (Steel Elevator)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index, end of book)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## Cast Iron Filler

(See Cements, Iron & Steel Filler)

## 1500—Cast Iron Pipe (High Pressure)

Coldwell-Wilcox Co. (For Steam or Water), Newburgh, N. Y.
Wood, R. D. & Co. (For Fire Protection), 400 Chestnut, Phila., Pa.

## 1501—Cast Iron Pipe Mfrs. (Gas & Water)

American Car & Foundry Co. (3 to 42 inches), 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Cast Iron Pipe Co. (Hub & Spigot Pipe & Fittings), Birmingham, Ala.

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)

Builders' Iron Foundry (Also Fittings of All Kinds for Same), Providence, R. I.
Central Foundry Co. ("Universal," also Ammonia & Steam), 90 West, New York
Clow, James B. & Sons (2 to 48-inch), Chicago, Ill.
Colorado Fuel & Iron Co. (3 to 20 inch), Den-
Dimmick Pipe Co., Birmingham, Ala. ver, Col.
Donaldson Iron Co. (2 to 36 inches), Emaus, Pa.
Drummond Iron Works, Reading, Pa.
Drummond, M. J. & Co., 182 B'way, New York
Fox, Jno. & Co. (Mfrs. Agts.), 523 B'way, N. Y.
General Fire Extinguisher Co., Providence, R. I.
Glamorgan Pipe & Foundry Co. (1½ to 36 inch), Lynchburg, Va.
Lynchburg Foundry Co., Lynchburg, Va.
McWane Pipe Works (Lynchburg Foundry Co., Props.), Lynchburg, Va.
Massillon Iron & Steel Co. (Also Flange Pipe & Fittings), Massillon, O.

**NASON MFG. CO. (Jobbers), 71 Ful-** ton, New York. (See adv. index, end of book)

Nelsonville Fdry & Mach. Co., Nelsonville, O.
Oregon Iron & Steel Co. (4 to 32-inch), Portland, Ore. Works: Oswego, Ore.
Sheffield Cast Iron Pipe & Foundry Co., Sheffield, Ala.
Standard Cast Iron Pipe & Foundry Co., Bristol, Pa.
U. S. Cast Iron Pipe & Foundry Co. (Gas & Water, Sewer & Culvert, 3 to 72-inch). 71 B'way, New York
Utica Pipe Foundry Co. (3 to 30 inch), Charles Millar & Son Co. (Selling Agts.), Utica, N.Y.
Warren Foundry & Machine Co. (34 to 48-in.), Phillipsburg, N. J., & 111 B'way, New York
Washington Pipe & Fdry Co., Tacoma, Wash.
Wood, R. D. & Co. (1 to 72-in.), 400 Chestnut. Philadelphia Pa.

## 1502—Cast Iron Soil Pipe & Fittings Mfrs.

(For Jobbers of These Goods, See Plumbers' Supplies, Jobbers)

Abendroth Bros. (Corp.) (2 to 8-inch), 109 Beekman, New York
Beggs Pipe & Foundry Co., Birmingham, Ala.
Bessemer Soil Pipe Co., Bessemer, Ala.
Birmingham Valve & Fittings Co., Birmingham, Ala.

**BLAKE SPECIALTY CO., 2412 3d av,** Rock Island, Ill. (See adv. index, end of book)

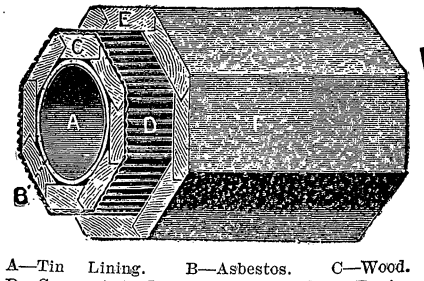
Campbell Mfg. Co., Gadsden, Ala.
Casey-Hedges Co., Chattanooga, Tenn.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
Central Foundry Co. (All Sizes), 90 West, New York
Charlotte Pipe & Foundry Co., Charlotte, N. C.
Colwell Lead Co., 109 Lafayette, New York
Coosa Pipe & Foundry Co., Birmingham, Ala.
Crown Pipe & Foundry Co. (Up to 8 inches),
Essex Foundry, Newark, N. J. Jackson, O.
Estabrook's, R. Sons ("Sisson" Inseparable Joint), 204 W 1st, S. B., Boston, Mass.
Franklin Pipe & Foundry Co., 2438 S Paulina, Chicago, Ill.
Gadsden Pipe & Fittings Co., Birmingham, Ala.
General Fire Extinguisher Co., Providence, R. I.
Gleun Mfg. Co. (Extra Heavy Pipe Only, and Complete Line of Fittings, Standard & Heavy), St. Charles, Ill.
Haines, Jones & Cadbury Co., 1140 Ridge av,
Hallman, Oliver, Mont Clair, Pa. Phila., Pa.
High Point Pipe & Fdry Co., High Point, N. C.
Ideal Mfg. Co., Detroit, Mich.
Independent Foundry Co., Lancaster, Pa.
Iowa Mfg. Co., Oskaloosa, Ia.
McVay-Walker Co., Braddock, Pa.
Medina Foundry Co., Medina, N. Y.
Mott, J. L. Iron Works. 118 5th av. New York

**NASON MFG. CO. (Jobbers). 71 Ful-** ton, New York. (See adv. index, end of book)

National Foundry Co. (2 to 10-inch), 32 Sanford, Brooklyn, N. Y.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Seaboard Pipe Foundry Co., Savannah, Ga.
Somerville Iron Works, Somerville, N. J.
Southern Pipe & Foundry Co., Birmingham, Ala.
Tacony Iron Co., Tacony, Phila., Pa.
Union Foundry Co. ("U. F. Co."), Anniston, Ala.
Utica Pipe Foundry Co. (2 to 6-inch), Charles Millar & Son Co., Selling Ag'ts, Utica, N. Y.
Wetter, H. Mfg. Co., Memphis, Tenn. Works: South Pittsburg, Tenn.
Wolff, L. Mfg. Co. (2 to 12-inch), 601 W Lake, Chicago, Ill.

## 1503— Casters

A. B. Stove Co. (Furniture, etc.), Battle Creek, Mich.
Armstrong Truck Co. (Ball Bearing), North Wales, Pa.
Burns & Bassick Co. ("Feltoid"), Bridgeport, Conn.
Coleman Hardware Co. (Furniture, Stoves, etc.), 168 Michigan av, Chicago, Ill.
Columbia Ball Caster Co. ("Columbia" Revolving Steel Ball, Stem Plate. etc.), 163 E Randolph, Chicago, Ill.
Diamond Steel Truck Co. (Steel), Grand Rapids, Mich.
Duer, Jno. & Sons (Furniture), Baltimore, Md.
Faultless Caster Co. (Leather Wheel, Glass Insulating. etc.), Nebraska City, Neb.
Foster, Merriam & Co. ("Victor." Furniture, Truck, etc.), Meriden, Conn.
Hamilton Caster & Mfg. Co. (Furniture, etc.), Hamilton, O.
Lansing Wheelbarrow Co. (Ball Bearing), Lansing, Mich.
Loeffeholz Co. ("Nonesuch" Furniture & Trunk Rollers), Milwaukee, Wis.
National Caster Co. (Piano, Refrigerator, etc.), Hamilton, O.
National Supply Co. (Furniture, Bed, etc.), Baltimore, Md.


A—Tin Lining. B—Asbestos. C—Wood. D—Corrugated Paper. E—Wood. F—Asphaltum Coating.

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Payson Mfg. Co. (Anti-Friction), 2918 W Jackson blvd, Chicago, Ill.
Phoenix Caster Co. ("Martin," "Boss," "Stengel," Furniturer, etc.), Indianapolis, Ind.
Schatz Mfg. Co. ("Acme" Ball Bearing), Poughkeepsie, N. Y.
Schriver, O. P. & Co. (Common Sense Anti-Friction Furniture & "Hercules" Truck Cast & Malleable Iron), Cincinnati, O.
Schenck, M. B. Co. ("Yale Gem," "Steel Gem," "Philadelphia" Roller Bearing Furniture, Stone & Truck), Meriden, Conn.
Tucker & Dorsey Mfg. Co. ("Martin," "Tucker," "Boss" & "Stengel," Furniture Casters), Indianapolis, Ind.
Universal Caster & Foundry Co. (Ball-Bearing Piano, Bedstead, Furniture, etc.), 1170 B'way, New York. Factory: Newark, N. J.
Wrightsville Hardware Co. (Furniture, etc.), Wrightsville, Pa.

## 1504— Casters (Truck)

Armstrong Truck Co., North Wales, Pa.
Arnold Co., Norwalk, Conn.
Dearborn Hardware Mfg. Co., 2911 Carroll av, Chicago, Ill.
Hamilton Caster & Mfg. Co., Hamilton, O.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
National Caster Co. (Casters & Wheels, Rubber Tired), Hamilton, O.
Phoenix Caster Co. (Rigid & Swivel), Indianapolis, Ind.
Reading Hardware Co., Reading, Pa.
Stearns, E. C. & Co., Syracuse, N. Y.
Tucker & Dorsey Mfg. Co. (Also Furniture, etc.), Indianapolis, Ind.
Universal Caster & Foundry Co., 1170 B'way, New York. Factory: Newark, N. J.
Zering, M., Mfg. Co. (Ball Bearing), Cincinnati, O.

## 1505—Castings (Air Furnace)

American Foundry & Construction Co., Pittsburg, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co. (Up to 200 Tons), Buffalo, N. Y. (See adv. index, end of book)
Builders' Iron Foundry (Gun Iron Air Furnace), Providence, R. I.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Chambersburg Engineering Co. (Up to 100 tons), Chambersburg, Pa.
Dimmick Pipe Co., Birmingham, Ala.
Hyde Park Foundry & Machine Co., Hyde Park, Pa.
Lakeside Malleable Castings Co. (Malleable Iron), Racine, Wis.
Lehigh Foundry Co. (Up to 50 Tons), Fullerton, Pa.
Mesta Machine Co., Pittsburg, Pa.
National Roll & Foundry Co. (Heavy), Avonmore, Pa.
Ohio Machine Co., Middleport, O.
Phila. Roll & Machine Co. (Heavy), S 23d & Washington av, Phila., Pa.
Reading Iron Co., Reading, Pa.
Waterloo Malleable Iron Works, Waterloo, Ia.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Wisconsin Malleable Iron Co., Milwaukee, Wis.
Youngstown Foundry & Machine Co., Youngstown, O.

## 1506—Castings (Aluminum)

Acme Brass Foundry Co., Los Angeles, Cal.
Alloys Founding Co., Buffalo, N. Y.
Aluminum Co. of America, Pittsburg, Pa.
Aluminum Goods Mfg. Co., Manitowoc, Wis.
Aluminum Castings Co., Cleveland, O.
American Motor Casting Co., Detroit, Mich.
American Motor Washer Co., Detroit, Mich.
Anderson, A. H., 218 N Ann, Chicago, Ill.
Attwood Brass Works (Heavy), Grand Rapids, Mich.
Bay State Brass Foundry, 155 A, S Boston, Mass.
Best Light Co., Canton, O.
Best Mfg. Co., Pittsburg, Pa.
Bradford Foundry Co. (Ltd.), Bradford, Pa.
Brass Foundry & Heating Co., Peoria, Ill.
Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.
Bridgeport Foundry & Machine Co., Bridgeport, Conn.
Buckeye Brass Foundry & Pattern Co., Cleveland, O.
Buescher Band Instrument Co., Elkhart, Ind.
Builders' Iron Foundry (Light & Heavy), Providence, R. I.
Cadman, A. W. Mfg. Co., Pittsburg, Pa.
Canton Brass & Machine Co., Canton, O.
Capitol Brass Works, Detroit, Mich.
Chambers & Co., Newark, N. J.
Champion Brass Works, Coldwater, Mich.
Champion Safety Lock Co., Geneva, O.
Chicago Hardware Foundry Co., North Chicago, Ill.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
City Brass Foundry Co., Cleveland, O.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Clum & Atkinson, Rochester, N. Y.
Columbus Bolt Works, Columbus, O.
Consolidated Casting Co., Mechanicville, N. Y.
Comstock-Wellman Bronze Co., Cleveland, O.
Crown Smelting Co., Chester, Pa.
Dake Engine Co., Grand Haven, Mich.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Day Foundry Co., Buffalo, N. Y.
Detroit Injector & Brass Mfg. Co., Detroit, Mich.
Detroit Motor Castings Co., Detroit, Mich.
Detroit Shipbuilding Co. (Brass Dept.), ft. of Orleans, Detroit, Mich.
Eastwood Wire Mfg. Co. (¼ oz. to 20,000 lbs.), Belleville, N. J.
**ELEVATOR SUPPLY & REPAIR CO.,** 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Empire Foundry Co., New Brunswick, N. J.
Eureka Tempered Copper Works, North East, Pa.
Everhard Brass Works, Scranton, Pa.
Exeter Brass Works, Exeter, N. H.
**EXETER MACHINE WORKS (Rough** or Finished), Pittston, Pa. (See adv. index & branch offices, end of book)
Eynons-Evans Mfg. Co., 15th & Clearfield, Phila., Pa.
Faries Mfg. Co., Decatur, Ill.
Federal Brass Works, 225 W Illinois, Chicago, Ill.
Fraim, E. T. Lock Co., Lancaster, Pa.
Franklin, H. H. Mfg. Co., Syracuse, N. Y.
Fries & Co., Buffalo, N. Y.
Garwood Bronze & Iron Works, Garwood, N. J.
Germann Bronze Co., Erie, Pa.
Graham, Jas. & Co., New Haven, Conn.
Great Lakes Brass Foundry, Bay City, Mich.
Hackett Bros., Detroit, Mich.
Halstead & Co., 1129 Cherry, Phila., Pa.
Hamden Brass Co., Springfield, Mass.
Hardware & Woodenware Mfg. Co. (Small), 693 B'way, New York
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HELWIG MFG. CO., St. Paul, Minn.** (See adv. index, end of book)
Hercules Float Wks, Springfield, Mass.
Hewitt, John Foundry Co., East Newark, N. J.
Higgins & Co., Holyoke, Mass.
Hohan Brass Fdry Co., 44 Wyandot, Dayton, O.
Holbrook-Armstrong Iron Co. (Light & Heavy), Racine, Wis.
Hughes Bros., Scranton, Pa.
Ideal Bronze Co., Cleveland, O.
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
Indianapolis Brass Co., Indianapolis, Ind.
Jenkins Mfg. Co., Bloomfield, N. J.
Johnson Service Co., Milwaukee, Wis.
Jones, Jas. Co., Los Angeles, Cal.
Kells Foundry & Machine Co., Adrian, Mich.
Keystone Bronze Co. (High Grade), Pittsburg, Pa.
Killing, E., Moulding Machine Works, Davenport, Ia.
Knickerbocker Foundry Co., 348 W 12th, New York
Langsenkamp-Wheeler Brass W'ks, 1208 Shelby, Indianapolis, Ind.
Leslie Co. (Inc.), (Bronze), Lyndhurst, N. J.
Levett, Walker M., 462 10th av, New York
Liberty Brass Works, Baltimore, Md.
Lovell, F. H. Co., Arlington, N. J.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Lusk Foundry Co. (Ltd.), Jackson, Mich.
McCafferty, J. H. Co., Boston, Mass.
McHatton Smelting Co., 1500 Washington av, Phila., Pa.
McShane Bell Foundry Co., Baltimore, Md.
Machine Parts Co., Elyria, O.
Mansfield Tempered Copper Co., Mansfield, O.
Mechanics' Foundry & Machine Co., Fall River, Mass.
Merkel-Light Motor Co., Pottstown, Pa.
Messmer, Ferd. Mfg. Co., St. Louis, Mo.
Midland Brass Works, Fort Worth, Tex.
Millett Brass Co., Springfield, Mass.
Milwaukee Aluminum & Brass Foundry Co., Milwaukee, Wis.
Monumental Bronze Co., Bridgeport, Conn.
More-Jones Brass & Metal Co., St. Louis, Mo.
Mosher, J. R. Brass Works, Greene, N. Y.
Mousley, Chas. & Sons, 457 N 12th, Phila., Pa.
National Bronze & Aluminum Foundry Co., 2539 E 79th, Cleveland, O.
**NATIONAL GAUGE CO., 168 5th,** Brooklyn, N. Y. (See adv. index, end of book)
Newell, Fred E., Central Falls, R. I.
Nordyke & Marmon Co., Indianapolis, Ind.
Oberdorfer, M. L. Brass Co., Syracuse, N. Y.
Osborn Machine Co., Dubois, Pa.
Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson, Phila., Pa.
Pioneer Brass Works, Indianapolis, Ind.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Providence Brass & Aluminum Co. (1 Grain to 1000 Pounds; also Aluminum Bronze), Providence, R. I.
Racine Aluminum Co., Racine, Wis.
Raquette Foundry & Supply Co., Massena, N. Y.
Reeves, Paul S. & Son, 1413 Catharine, Phila., Pa.
Rempis & Gallmeyer Foundry Co., Grand Rapids, Mich.
Richardson, Edro, 316 N Holliday, Baltimore, Md.
Rider-Bagg Co., Springfield, Mass.
Roberts & Norton, Utica, N. Y.
Rock Island Metal Foundry, Rock Island, Ill.
Rowell, W. G. & Co., Bridgeport, Conn.
Ruggles Machine Co., Poultney, Vt.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Ryder Brass Foundry Co., Bucyrus, O.
Scovill Mfg. Co., Waterbury, Conn.
Sheeler-Hemsker Co., 811 Fairmount av, Phila., Pa.
Sherwood Brass Works, Detroit, Mich.
Sherwood Mfg. Co., Buffalo, N. Y.
Shriver, T. & Co., Harrison, N. J.
Southern Brass Mfg. & Plating Co., Houston, Tex.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Springfield Brass Co., Springfield, O.
Standard Brass Foundry Co., Cleveland, O.
Stewart Machinery Mfg. Co., Hammond, Ind.
Stiles Mfg. Co., Parkersburg, W. Va.
Stover Mfg. Co., Freeport, Ill.
Thiery & Kendricks Mfg. Co., Detroit, Mich.
Turner Brass Works, Sycamore, Ill.
Union Brass Foundry Co., Lowell, Mass.
U. S. Aluminum Casting Co., Cincinnati, O.
U. S. Aluminum Co., Pittsburg, Pa.
U. S. Bronze Co., Cleveland, O.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Waltham Foundry Co., Waltham, Mass.
Waterbury Brass Goods Corp., Waterbury, Conn.
Weiskittle, A. & Son Co., Baltimore, Md.
Weber-Knapp Co., Jamestown, N. Y.
Western Motor Co., Logansport, Ind.
**WHITLOCK COIL PIPE CO. (Fine,** Difficult), Hartford, Conn. (See adv. index, end of book)
Williams, E. A. & Son, Jersey City, N. J.
Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

## 1507—Castings (Automobile)

(See also Castings, Various Kinds)

Acme Steel & Malleable Iron Works (Steel & Malleable Iron), Buffalo, N. Y.
Aluminum Foundry Co. (Aluminum Only), Manitowoc, Wis.
American Motor Casting Co. (Aluminum, etc.), Detroit, Mich.
Auburn Foundry Co., Auburn, Ind.
Best Mfg. Co., Pittsburg, Pa.
Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.
Canton Brass & Machine Co. (Brass, etc.), Canton, O.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chicago Steel Foundry Co. (Vanadium Steel), Rookery bldg, Chicago, Ill.
**CHISHOLM & MOORE MFG. CO.,** (Malleable Iron), 49th & Lake, Cleveland, O. (See adv. index, end of book)
City Brass Foundry Co., Cleveland, O.
Clum & Atkinson, Rochester, N. Y.
Consolidated Casting Co. (Aluminum & Brass), Mechanicville, N. Y.
Cramp, Wm. & Sons Ship & Engine Building Co., Beach & Ball, Phila., Pa.
Crucible Steel Casting Co. (Chrome, Nickel, Vanadium Steel), Lansdowne, Pa.
Dayton Steel Foundry Co. (Crucible Steel), Dayton, O.
Edna Brass Mfg. Co. (Brass), Cincinnati, O.
Empire Foundry Co. (Aluminum, Brass & Grey Iron), New Brunswick, N. J.
Ensign Foundry Co., Toledo, O.

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Erie Foundry Co., Erie, Pa.
Ferro Machine & Foundry Co., Cleveland, O.
Frontier Iron Works (Grey Iron), Buffalo, N. Y.
Germann Bronze Co., Erie, Pa.
Globe Malleable Iron & Steel Co. (Malleable Iron), Syracuse, N. Y.
Hardy, Wm. A. & Sons Co. (Brass & Bronze). Fitchburg, Mass.
Hopson & Chapin Mfg. Co. (Cast Iron), New London, Conn.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Manufacturers' Foundry Co. (Grey Iron Cylinders; also for Motor Boats), Waterbury, Conn.
**MERCHANT & EVANS CO. (Inc.)** (Iron Cylinder Castings), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Crucible Steel Castings Co. (All Kinds of Light Crucible Steel), Detroit, Mich.
Michigan Motor Casting Co., Flint, Mich.
National Bronze & Aluminum Foundry Co., Cleveland, O.
Norwalk Brass Co. (of all Composition Metals), Norwalk, Conn.
**Oberdorfer, M. L. Brass Co., Syracuse, N. Y.**
Ohio Malleable Iron Co. (Malleable Iron), Columbus, O.
Pioneer Brass Works, Indianapolis, Ind.
Reed Mfg. Co. (Crucible Steel), Kalamazoo, Mich.
Reedy Foundry Co., 4600 Iowa, Chicago, Ill.
Rockford Brass Works, Rockford, Ill.
Rogers, C. E. (Aluminum), 34 Beach, Boston, Mass.
Susquehanna Casting Co., Wrightsville, Pa.
Standard Brass Foundry Co., Cleveland, O.
Thiery & Kendricks Mfg. Co. (Brass), Detroit, Mich.
**Trumbull Mfg. Co., Warren, O.**
U. S. Aluminum Castings Co. (Aluminum), Cincinnati, O.
**U. S. Aluminum Co., Pittsburg, Pa.**
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Van Arnam Mfg. Co., Fort Wayne, Ind.
Walker Foundry Co. (Grey Iron), Erie, Pa.
West Steel Casting Co. (Crucible Steel), Cleveland, O.
Wetherill Finished Casting Co., Erie & Richmond, Phila., Pa.
Whiteley Malleable Castings Co. ("Whiteley's Crown" Steel), Muncie, Ind.
Whitely Steel Co. (Cast Steel), Muncie, Ind.

## 1508—Castings (Bake Oven)

Spangler, Chas., Allentown, Pa.

## 1509—Castings (Blast Furnace)

**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

## Castings (Boiler)

(See Boiler Fronts & Castings)

## 1510— Castings (Brass)

(For all Brass Founders not found under this heading see Machinists & Founders marked with a (§) Section Mark)

See also Castings, Bronze; Castings, Copper; Castings, Manganese Bronze; Castings, Phosphor Bronze; Bearings of Various Kinds; Bell Founders; Valve Manufacturers.

### ALABAMA.

BIRMINGHAM—Ajax Metal Co. of the South
Anderson, G. L. Brass Works
Gilb, V. & Son
MOBILE—Alabama Iron Works (Also Iron)
MONTGOMERY—Janney, A. A. & Co. (Also Iron)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

### ARKANSAS.

LITTLE ROCK—Thomas-Fordyce Mfg. Co.
Wing & Stephens Co.

### CALIFORNIA.

LOS ANGELES—Acme Brass Foundry Co.
Axelson Machine Co.
Bailey Ornamental Iron Co.
Fulton Engine Works
Hutchison, W. G. Co.
Jones, Jas. Co.
Llewellyn Iron Works
McCan Mechanical Works
Meyberg Co.
OAKLAND—Phoenix Iron Works Co.
RIVERSIDE—Riverside Foundry & Machine Co.
SACRAMENTO—Sacramento Foundry & Machine Works
Union Iron Works
SAN FRANCISCO—Atlas Brass Works
De Rome, Louis
Enterprise Foundry (Inc.)
Garratt, W. T. Co. (Inc.)
Greenberg, M. & Sons
Kingwell, Vincent
Krenz, Oscar Copper & Brass Works
San Francisco Zinc & Brass Foundry
Tay, Geo. H. Co.
Union Iron Works

### COLORADO.

COLORADO SPRINGS—Hassell Iron Works Co.
DENVER—Denver Brass Works Co.
Denver Iron Works & Foundry Co.
Flint-Lomax Electric & Mfg. Co.
Slack-Horner Brass Mfg. Co.
**PUEBLO—Ortner, Geo. J.**
**Pueblo Foundry & Machine Co.**

### CONNECTICUT.

ANSONIA—Ansonia Brass Foundry Co.
**Ansonia Brass & Copper Co.**
**Gaylord, F. L. Co.**
Phelps, H. D.
BRIDGEPORT—**Belknap Mfg. Co.**
**Bridgeport Brass Co.**
Bridgeport Deoxidized Bronze & Metal Co.
Bridgeport Foundry & **Machine Co.**
**Donovan, P. J. Brass Foundry Co.**
**Hamilton, Jno. Brass Works**
**Monumental Bronze Co.**
BRISTOL—Bristol Brass Co.
GUILFORD—Spencer's, I. S. Sons
HARTFORD—Blake, Edwin J.
**Capitol Foundry Co.**
**Craig, Jno. M.**
**Howard, Jas. L. & Co.**
**Pratt & Cady Co.**
**WHITLOCK COIL PIPE CO.** (See adv. index, end of book)
MERIDEN—**Foster-Merriam Co.**
**Meriden Iron & Brass Co.**
**Miller, Edw. & Co.**
MIDDLETOWN—**Chapman, W. H. Co.**
**McAllister, Frank**
**Wilcox, Crittenden & Co.**
MOUNT CARMEL—Woodruff, Walter W. & Sons Co.
NAUGATUCK—**Russell, J. M. Mfg. Co.**
NEW BRITAIN—**Flannery, P. J.**
Neumann & Alling
Kinne, W. A.
Osborne, George H.
NEW HAVEN—English & Mersick Co.
Graham, Jas. & Co.
Ives, Hobart B. Co.
Peck Bros. & Co.
Sargent & Co.
NEW LONDON—New London Marine Iron Works
NORWALK—Norwalk Brass Co.
NORWICH—Tracy, C. Oscar
PLAINVILLE—Clark, A. N. & Son (To Order)
Carter, E. T.
Carter, L. H.
Elm City Brass & Rivet Co.
SHELTON—Meyers, Fred'k (Also Iron)
STAMFORD—Brown, Chris
Stamford Iron & Brass Foundry
STONINGTON—Miller's, A. B. Sons
TORRINGTON—**TURNER & SEYMOUR** Mfg. Co. (See adv. index, end of book)
WATERBURY—American Pin Co.
Connecticut Mfg. Co.
Manufacturers Foundry Co.
Matthews & Willard Mfg. Co.
Scovill Mfg. Co.
Steele & Johnson Mfg. Co.
Waterbury Brass Co.
Waterbury Brass Goods Corpn.
Waterbury Mfg. Co.
WINSTED—Moore, Franklin Co.

### DELAWARE.

WILMINGTON—**HILLES & JONES CO.** (See adv. index, end of book)
Speakman Supply & Pipe Co.
Wilmington Brass Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Douglas, Wm. H.
Somerville, Thos. Co.

### FLORIDA.

JACKSONVILLE—McMillan Bros.

### GEORGIA.

ATLANTA—Hancock-Holmes Fdry & Machine Works
Pratt Engineering & Machine Co.
Withers Foundry & Machine Works
CORDELE—Tomlin-Harris Machine Co.
SAVANNAH—Kehoe Iron Works
Rourke, John & Sons
Southern Iron & Equipment Co.

### ILLINOIS.

AURORA—**Aurora Metal Co.**
CHICAGO—Acme Metal Mfg. Co., 551 W Monroe
Adams & Westlake Co., 319 W Ontario
Allen, W. D. Mfg. Co., 151 Lake
Anderson, A. H. (Light & Heavy), 218 N Ann
Anderson Bros., 1386 Fulton
Anderson, Wm. B. Fdry Co., 28 S Clinton
Babbitt, R. M. Brass Foundry Co., 558 Washington blvd
Burdett-Rowntree Mfg. Co., 515 Laflin
Chicago Hardware Foundry Co., 546 Washington blvd
Chicago Journal Bearing Co. (High Grade), 519 W Van Buren
Chicago Nut Co., 631 W Jackson blvd
Eddy Brass Foundry & Machine Co., 173 N Green
**ELEVATOR SUPPLY & REPAIR** Co., 561 W Monroe. (See adv. index, end of book)
Empire Brass Works, 701 Fulton
Faunt Bros., 159 N Jefferson
Federal Brass Works, 225 W Illinois
Federal-Huber Co.. Halsted & Fulton
Fowler Brass Works, 59 E 24th
Goetz & Flodin Mfg. Co., 1802 Clybourn av
Harris, Arthur & Co. (Heavy), 212 Curtis
Heath-Johnson Co. (Inc.), 300 W Ontario
Hewitt Mfg. Co., 4041 Emerald av
Hills-McCanna Co., 153 W Kinzie
Hodgson Foundry Co., 2014 W 13th
Holland, Wm., 616 W Monroe
Imperial Brass Mfg. Co. (Red, White, Yellow & Hard Brass). 444 S Jefferson
Mahoney, Pat'k F., 602 W Lake
Quincy Brass Works, 132 S Clinton
Ryan, J. J. & Co., 100 S Jefferson
Smeeth & Harwood, 2401 W 22d
**SMITH, F. P. WIRE & IRON** Works, Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Standard Metal Co., Rector bldg
Stier, Herman Mfg. Co., 1332 N Halsted
Street & Kent Mfg. Co. (Plumbers' Specialties), 549 Fulton
Weir & Craig Mfg. Co., 2439 Wallace
Western Brass Mfg. Wks, 21st & Rockwell
White Brass Castings Co., 1656 Austin av
DECATUR—Faries Mfg. Co.
EDWARDSVILLE—Edwardsville Brass Co.
FREEPORT—Stover Mfg. Co.
GALESBURG—Frost Mfg. Co.
LITCHFIELD—Litchfield Foundry & Machine Co.
MOLINE—Schmidt, Henry
PEORIA—Brass Foundry & Heating Co.
Kinsey & Mahler Co.
QUINCY—Bush, Clement (Also Iron)
Central Iron Works
Massie, S. B. & Son
Quincy Foundry & Novelty Co.
Van Doorn Co.
ROCKFORD—Dobson Mfg. Co.
Rockford Brass Works
ROCK ISLAND—**BLAKE SPECIALTY** Co., 2412 3d av. (See adv. index, end of book)
Rock Island Metal Foundry
SYCAMORE—Turner Brass Works

### INDIANA.

EVANSVILLE—Evansville Brass Works
Heoley, Peter
Heilman Machine Works
INDIANAPOLIS—Acme Brass Foundry
Dean Bros. Steam Pump Works
Indianapolis Brass Works

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Keyless Lock Co.
Langsenkamp-Wheeler Brass Works
Nordyke & Marmon Co.
Pioneer Brass Works
Standard Brass Foundry
KOKOMO—Kokomo Brass Works
LOGANSPORT—Western Motor Co.
TERRE HAUTE—Prox & Burget Co.
Terre Haute Bronze & Brass Foundry

## IOWA.

CEDAR RAPIDS—Dearborn Brass Co.
DAVENPORT—Davenport Machine & Fdry Co.
Killing, E.. Moulding Machine Works
DUBUQUE—McDonald, A. Y. Mfg. Co.
WATERLOO—Waterloo Brass Foundry

## KANSAS.

IOLA—United Iron Works Co.
KANSAS CITY—Riverside Iron Works Co.

## KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co.
Jones, Arthur
Stege, E. A. Mfg. Co.
Vogt, Henry Machine Co.

## LOUISIANA.

MONROE—Sanders, Jno. G. (Also Iron)
NEW ORLEANS—Koretke, F. H. Brass & Mfg. Co. (Ltd.)
Moore's Brass Foundry
Murphy, John H.
Swoop, Julian M.

## MAINE.

BANGOR—Union Iron Works
BATH—Bath Iron Works
Torrey Roller Bushing Works
Watson, Frye & Co. (Railroad & Mill)
CALAIS—McCullough & Tait
CAMDEN—Knowlton Bros.
DEXTER—Fay & Scott
HALLOWELL—Fuller's, Geo. Sons
MECHANIC FALLS—Penney, J. W. & Sons Co.
PORTLAND—Babbitt, Chas. E.
Knight Bros.
Megguier & Jones Co.
Portland Co.

## MARYLAND.

BALTIMORE—Baltimore Brass & Plating Works, North & Center
Boehm, Henry E. & Co., 207 Guilford av
**Codd, E. J. Co., 700 S Caroline**
Farrell, Edw. P., 1412 Philpot
Gibson & Kirk Co. (Up to 150 lbs.), 517 E Montgomery
Gisriel, Wm. & Son, 1531 Guilford av
Kugler & Shane
Liberty Brass Works, 305 W Lombard
Limerick, J. Arthur Co. (Artistic)
McShane Bell Fdry Co., Holliday & Centre
Mackin, F. M. & Co., 509 N Spring
Maryland Brass & Metal Works
**National Supply Co.**
Poole Engineering & Machine Co., Woodberry Station
**Richardson, Edro Brass Co., 316 N Holliday**
Weiskittle, A. & Son Co.
CUMBERLAND—McKaig, Merwin
Potomac Engineering Co.

## MASSACHUSETTS.

AMESBURY—Amesbury Brass & Foundry Co.
BOSTON—Ashton Valve Co., 271 Franklin
Bay State Brass Foundry, 155 A
**Boston Brass Co., 36 Oliver**
**Clark, D. W. & Co., 280 W 1st, S. B.**
D'Este, Julian Co., 24 Canal
Duncan, Wm., 412 Border
Gibby Foundry Co., 96 Condor, E. B.
Granular Metal Co., 77 Farnham
Hamlin & Emery Brass Co., 104 Portland
McLafferty, J. H. Co., 434 Harrison av
McGann, Thos. F. & Sons Co. (Art, etc.), 104 Portland
Mowry & Phillips (Rough or Finished), 208
Rogers, Cornelius E., 34 Beach
Star Brass Mfg. Co., 108 E Dedham
Union Brass Works, 421 Atlantic av
United Copper Foundry Co., 634 Hunting-
Walworth Co., 128 Federal
CAMBRIDGE—Hayden, G. W.
CLINTON—Clinton Foundry Co. (Also Iron)
EAST BRIDGEWATER—Old Colony Foundry
FALL RIVER—Creighton, T. J. Co.
Fall River Foundry & Machine Co.
Mechanics Foundry & Machine Co.
FITCHBURG—Hardy, Wm. A. & Sons Co.
Welch, E. J. & Co.
FOXBORO—Foxboro Foundry Co.
GARDNER—Gardner General Foundry Co.
GLOUCESTER—Reed, Geo. A. & Son
HAYDENVILLE—Bay State Brass Co.
Haydenville Co.
HOLYOKE—Higgins & Co.
Holyoke Valve & Hydrant Co.
LAWRENCE—Fallon, T. F. & Co.
LOWELL—Nichols Foundry Co.
Pevey Foundry Co. (Inc.)
Union Brass Foundry Co.
MILLBURY—Oakley Steel Foundry Co.
ORANGE—Hunt, Rodney Machine Co.
PEABODY—Marine Hardware Co.
SALEM—Waters, A. S.
SPRINGFIELD—Chamberlain, J. D. H. Mfg. Co.
Emory, P. P. Mfg. Co.
Hamden Brass Co.
Hercules Float Works
Millett Brass Co.
**Rider-Bagg Co.**
TAUNTON—Trefethen, D. A.
WALTHAM—Waltham Foundry Co.
WEBSTER—Prescott, J. B. & Son
WORCESTER—Cahill Mfg. Co.
Washburn Shops
Wells Chemical Bronze Works
Worcester Brass Co.

## MICHIGAN.

ANN ARBOR—Climax Specialty Co. (Plumbers' Specialties)
BATTLE CREEK—Sherman, H. B. Mfg. Co.
BAY CITY—Bay City Iron Co.
McCartney, Josiah
**MacKINNON BOILER & MACHINE** Co. (See adv. index, end of book)
CHEBOYGAN—Blake, H. A. & Son (Also Iron)
COLDWATER—Champion Brass Works
DETROIT—Allyne Brass Foundry Co., 77 Belle-
American Motor Washer Co.
Bryant & Berry Co., 34 W Atwater
Capitol Brass Works, Chene & Franklin
Clayton & Lambert Mfg. Co.
Detroit Brass Works, 1322 Brooklyn
Detroit Copper & Brass Rolling Mills
Detroit Injector & Brass Mfg. Co.
Detroit Motor Casting Co., 299 Beaufait
Detroit Ship Building Co., ft. of Orleans
Diamond Mfg. Co., Summit & River
Enterprise Foundry Co., 1135 E Warren av
Essex, G. B. Brass Co., 480 Franklin
Hackett Bros., 242 Lillibridge
Ideal Mfg. Co., 570 Franklin
Ireland & Matthews Mfg. Co.
**McRAE & ROBERTS CO. (Steam** Brass Goods), 227 Campbell av. (See adv. index, end of book)
Martin, A. W., 215 Antoine
Michigan Brass & Copper Co.
Sherwood Brass Works, 1167 Jefferson. E.
Standard Brass Works, 528 E Woodbridge
Stephens, Roe Mfg. Co.
Sterling & Skinner Mfg. Co., Russell & E
Thiery & Kendricks Mfg. Co. Grand blvd
Yoe, Henry & Co., 126 Sherman
FLINT—Michigan Motor Casting Co.
GRAND HAVEN—Dake Engine Co. (Any Size Up to 5 Ton)
GRAND RAPIDS—Attwood Brass Works
**Grand Rapids Brass Co.**
Harring, F. J. & Co.
Hartmann, H. J. Foundry Co.
**Keeler Brass Co.**
**Rempis & Gallmeyer Foundry Co.**
Wolverine Brass Works
HANCOCK—Portage Lake Foundry & Machinery Co.
HOLLAND—Huntley, A.
JACKSON—Jackson Brass Foundry Co.
Lusk Foundry Co. (Ltd.)
KALAMAZOO—New Era Mfg. Co.
Star Brass Works
LANSING—Gerson-Carey Co.
LAPEER—McDonald, Wm. Sons
MENOMINEE—Prescott Co.
PONTIAC—Flanders Mfg. Co.
PORT HURON—Draper Mfg. Co.
SAGINAW—Bartlett, A. F. & Co.
TRAVERSE CITY—Round & Son
YPSILANTI—Michigan Machinery Mfg. Co.

## MINNESOTA.

DULUTH—Duluth Brass Works Co.
Marine Iron Works
MINNEAPOLIS—Baum's Brass & Model Works
Twentieth Century Brass Mfg. Co.
ST. PAUL—St. Paul Brass Foundry Co.
South Park Foundry & Machine Co.
Union Brass & Metal Mfg. Co.
Western Machine Mfg. Co.

## MISSISSIPPI.

LAUREL—Laurel Machine & Foundry Co.
NATCHEZ—Shaw, C. P.

## MISSOURI.

CHILLICOTHE—Way, Frank, Foundry & Machine Co.
JOPLIN—Joplin Foundry Co.
KANSAS CITY—Central Brass Works Co.
Crampton-Farley Brass Co. (Plumbers' Specialties), 221 Main
Kansas City Brass Works, 421 W 5th
Kansas City Wire & Iron Works, 1428 Oak
Riverside Iron Works Co.
Star Brass Works Co., 409 S. W. blvd
ST. JOSEPH—St. Joseph Brass & Iron Fdry
ST. LOUIS—American Foundry & Mfg. Co.
Gilbert, A. & Sons Brass Foundry
Hewitt Mfg. Co., 2028 Walnut
Kupferle Bros. Mfg. Co., 602 N 2d
Kraushaar Brass Mfg. Co.
Laciede Brass Works, 307 Cedar
Lupfer, Wendel, 216 Locust
More-Jones Brass & Metal Co.
Ruppenthal, J. & Son, 1602 N B'way
St. Louis Brass Mfg. Co., Washington & Jefferson avs
St. Louis Car Co. (Railway, etc.)

## NEBRASKA.

FREMONT—Fremont Foundry & Machine Co.
LINCOLN—Hedges, C. E.
Smith, R. L. Machine Works (Also Iron)
YORK—York Foundry & Engine Works

## NEW HAMPSHIRE.

CONCORD—Ford & Kimball
EAST CONCORD—Badger, Franklin L.
EXETER—Exeter Brass Works
LAKEPORT—Cole Mfg. Co.
PENACOOK—Concord Axle Co.
UNION—Hamlin, E. F. Brass Co.

## NEW JERSEY.

ARLINGTON—Lovell, F. H. Co.
BELLEVILLE—Eastwood Wire Mfg. Co. (¼-oz to 20,000 lbs.)
BLOOMFIELD—Benson. H. K. & F. S.
CAMDEN—Camden Metal Co.
EAST NEWARK—Hewitt, Jno. Foundry Co.
EAST ORANGE—Smith. A. P. Mfg. Co.
ELIZABETH—Elizabeth Machine & Iron Works
FLEMINGTON—Floran Foundry & Mfg. Co.
GARWOOD—Garwood Bronze & Iron Works
HARRISON—Shriver, T. & Co.
HOBOKEN—Fletcher, W. & A. Co.
Moller, Henry (All Kinds of Castings)
Union Iron Works
JERSEY CITY—Brady Brass Co., 204 10th
Gothberg, H. & E., 139 Cator av
Krouse, Geo. (Heavy), 150 Morgan
Magnus Metal Co., 364 9th
Murphy. Wm. J., 279 10th
**SNEAD & CO. IRON WORKS, ft** of Pine. (See adv. index, end of book)
Williams. E. A. & Son, 105 Plymouth
LYNDHURST—Leslie Co. (Inc.)
NEWARK—Bushauer, P. (Est. of), 261 Elm
Chambers & Co., 2 Commercial
Defreville & Masset, 60 Elm
Goldsmith, C. A., 42 Cutler
Hedges & Bro., 12 R. R. pl.
Hewes & Phillips Iron Works
Josts. E. Sons, 48 Dickerson
Newark Brass Works, 20 Lawrence
Schueler, Anthony & Co., 691 S 16th
Turner Machine Co.
Wheaton, A. W. Brass Works, 68 N J R R
Zusi, Edw'd, 80 Mechanic
Zusi, Edw'd A.. 101 Monroe
NEW BRUNSWICK—Empire Foundry Co.
New Brunswick Iron Works, 9 Water
PATERSON—Finigan-Zabriskie Co. (Todd Mills, Brass & Iron Castings)
PERTH AMBOY—Schantz & Eckert (Also Iron)
SALEM—Salem Brass & Iron Mfg. Co.
TRENTON—**CROSSLEY MACHINE CO.,** State & Monmouth. (See adv. index, end of book)
Superior Iron Works
Trenton Brass & Machine Co.
Watson, John & Sons Co.
VINELAND—Weaber, Adam & Son

## NEW YORK.

ALBANY—Albany Brass & Iron Co.
Cox Brass Mfg. Co.
Gaynor, P. F.
Hartnett, John J.
Thacher, Geo. H. & Co.

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BALLSTON SPA—Davison-Namack Fdry Co.
BUFFALO—Acme Steel & Malleable Iron Wks, Alloys-Founding Co. 245 Military rd
Case, W. A. & Son Mfg. Co.
Day Foundry Co.
Fries & Co.
Josef, E. E. Mfg. Co.
**LUMEN BEARING CO. (See adv. index, end of book)**
Maute, J. & Sons. 23 Kane
Noye Mfg. Co., 50 Lakeview av
Pohlmann, John W. Foundry Co.
Schmahl, Jno. H. & Albee, 471 Ellicott
Sherwood Mfg. Co.
Standard Foundry Co., 743 Hertel av
Unique Brass Foundry Co., 25 Illinois
Zero Valve & Brass Mfg. Co.
CATTARAUGUS—Century Brass Mfg. Co.
COHOES—Cohoes Iron Foundry & Machine Co.
Quigley, W. H.
Simcox, Jos. H.
GLENS FALLS—Dix Foundry & Machine Co.
GRASSY POINT—Wiles, A. M. & W. H. Co.
GREENE—Mosher. J. R. Brass Works
HUDSON FALLS—Sandy Hill Iron & Brass Works
JAMESTOWN—Weber-Knapp Co.
LOCKPORT—Holly, Carlos Co. (Also Iron)
McKim Foundry & Machine Co.
MASSENA—Raquette Foundry & Supply Co.
MECHANICVILLE—Consolidated Casting Co.
MOUNT VERNON—**HENRY-BONNARD Bronze Co. (Also Bronze & Iron) (See adv. index, end of book)**
NEWBURGH—**ABENDROTH & ROOT** Mfg. Co. (See adv. index, end of book)
Chadburn & Coldwell Mfg. Co.
Coldwell, Wilcox Co.
Kimball's, S. G. Son
Marvel, T. S. Shipbuilding Co.
Newburgh Ice Machine & Engine Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Atlantic Basin Iron Works. Inlay & Summit
**BLISS, E. W. CO., 19 Adams. (See adv. index, end of book)**
**Columbia Machine Works & Malleable Iron Co., 269 Chestnut**
Coyne & Delaney Co., 303 Rodney
**Creamer, W. G. & Co., Creamer c Smith**
**Hamilton, Robert, 85 Adams**
Huethwohl, Louis, 513 Flushing av
Jefferson Brass Foundry, 209 King
Jones, Chas. W., 36 S 1st
**NATIONAL GAUGE CO., 168 Sth.** (See adv. index, end of book)
Staats, Geo. & Co., 252 Lorimer
**Taylor & Co. (Inc.) (Also Iron), Morgan & Norman avs**

### Boroughs of Manhattan & Bronx.

NEW YORK—**ABENDROTH & ROOT Mfg. Co., Fulton Bldg., 50 Church. (See adv. index, end of book)**
Atlantic Brass Co. (Car, etc.), 192 B'way
Claudat, Frank & Son, 424 E 23d
Creamer, W. G. & Co., 96 John
Cunningham, Wm. J., 671 Water
**DIAMOND EXPANSION BOLT CO., 90** West. (See adv. index, end of book)
Fox's, B. Sons, 513 W 34th
Gallagher's, Jas. Sons, 87 Centre
Gillen, J. F. & Son, 124 Baxter
**GORHAM CO. ARCH'L BRONZE (High Grade), 5th av & 36th, Works: Providence, R. I. (See adv. index, end**
Guerin, P. E. (Inc.), 23 Jane of book)
Hardware & Woodenware Mfg. Co. (Small)
Harper, Thos., 139 Lafayette 693 B'way
Knickerbocker Foundry Co., 348 W 12th
Levett, Walter M., 462 10th av
McCauley, Frank. 502 W 25th
Magnus Metal Co., 111 B'way
Manhattan Brass Co., 334 E 28th
Nelson, Chas., 439 E 10th
N. Y. Brass Foundry Co., 104 Centre
Scholl, Adam, 225 E 138th
Tuttle & Bailey Mfg. Co., 83 Beekman

### Borough of Queens.

ASTORIA—Federal Brass & Bronze Co.
LONG ISLAND CITY—McGee. Jos. Iron & Brass Fdry. Co.
MASPETH, Long Island City—Queensborough Brass & Bronze Foundry
Richey, Browne & Donald
**(End of New York City)**
NIAGARA FALLS—**DOBBIE FDRY. &** Machine Co. (See adv. index, end of book)
NORTH TONAWANDA—Herschell-Spillman Co.
ROCHESTER—Clum & Atkinson (1000 to 3000 lbs.)
Nunn Brass Works
Wray, Henry & Son
ROME—Rome Brass & Copper Co.
SALAMANCA—Salamanca Engine Iron Co.
SENECA FALLS—Rumsey & Co.
Seneca Falls Mfg. Co.
SYRACUSE—Caldwell & Ward Brass Co.
Engelburg Huller Co.
Kratz, Peter A.
McVey, Hugh
Oberdorfer, M. L. Brass Co.
Phelps, Sabia
Senk, Jno. W.
TROY—Gurley, W. & L. E.
Wheeler Bros.
UTICA—Blasier, M. E. Mfg. Co.
Merriam, F. M.
Utica Brass Works

## NORTH CAROLINA.

NEWBERN—Newbern Iron Wks & Supply Co.
RALEIGH—Raleigh Iron Works Co.
WILMINGTON—Wilmington Iron Works

## OHIO.

AKRON—Adamson Machine Co.
Akron Foundry Co.
Star Drilling Machine Co.
BUCYRUS—Ryder Brass Foundry Co.
CANTON—Balm, J. A. Co.
Best Street Light Co.
Canton Brass & Machine Co.
Elbel Co.
Frankham, Wm. & Son
CINCINNATI—American Valve & Meter Co.
Behrens, F. D. Co., 120 E Court
Cincinnati Mfg. Co., 1243 W 6th
Deckebach, F. C. Sons Co., 123 W Court
Edna Brass Mfg. Co. (Light & Heavy) 525 Reading rd
Electric Railway Equipment Co.
Eureka Brass Works, 1040 Hulbert av
Fewlass-Leen Brass & Iron Co., 610 E Front
Hesterberg, R. & Co., Spring Grove & Hoppe, Chas. & Co., 632 Main Garrard av
Kirkup, Robt. & Co., 616 Lodge
**LUNKENHEIMER CO., Beekman & Waverly.** (See adv. index, end of book)
McGowan, Jno. H. Co.
National Brass Mfg. Co., 1115 Marshall av
Nichol, Thos. J. & Co., Pearl & Ludlow
Ohio Brass Foundry Co.
Powell, Wm. Co.
Queen City Brass & Iron Works
Richter & Co., 210 E 9th
Riegler & Son, 316 Perry
**Van Duzen, E. W. Co., 428 E 2d**
CLEVELAND—Acme Brass Works, 2662 E 76th, S. E.
Aetna Brass Mfg. Co., 4800 Hamilton av
Aluminum Castings Co.
Buckeye Brass Foundry & Pattern Co.
City Brass Foundry Co.
Cleveland Brass Works
Cleveland Bronze & Brass Works (Light & Heavy)
Cochrane, John A., 1403 E 40th, N. E.
Comstock-Wellman Bronze Co.
Farnan Brass Works (Plumbers' Specialties)
Glauber Brass Mfg. Co., 4917 Superior av,
Ideal Bronze Co., 1265 E 55th, N. E. N. E.
Industrial Pattern & Bronze Co., 988 E 67th, N. E.
**Monarch Brass Co., 4613 Payne av**
National Bronze & Aluminum Foundry Co.
Standard Brass Foundry Co.
Triumph Electric Co.
United Brass Mfg. Co., 3844 Hamilton av,
U. S. Bronze Co., 1831 Columbus rd N. E.
COLUMBUS—Atlas Brass Foundry Co., 991 S Columbus Brass Co., 94 N 6th Front
Ohio Pump & Brass Co.
CUYAHOGA FALLS—Nute Foundry Co.
DAYTON—Buckeye Iron & Brass Works
Dayton Mfg. Co.
Dennick, Wm. & Co.
Hoban Brass Foundry Co.
Miami Brass Foundry Co.
ELYRIA—Machine Parts Co.
GENEVA—Champion Safety Lock Co.
HAMILTON—Hamilton Copper & Brass Wks
LIMA—Lima Locomotive & Machine Co.
MANSFIELD—Mansfield Tempered Copper Co.
Ohio Brass Co.
MARIETTA—Pattin Bros. Co.
MASSILLON—Russell Engine Co.
NORWALK—Norwalk Iron & Brass Foundry
SANDUSKY—Klotz Machine Co. Co.
SPRINGFIELD—Nolte Brass Co.
Springfield Brass Co.
TOLEDO—Seeger, Valentine
Toledo Brass & Novelty Works
Toledo Ship Building Co.
TORONTO—Means Engineering & Foundry Co.
YOUNGSTOWN—Falcon Bronze Co.
United Engineering & Foundry Co. (All Weights)
Youngstown Bronze & Iron Foundry Co.

## OREGON.

ALBANY—Albany Iron Works (Also Iron)
ASTORIA—Astoria Iron Works (Inc.)
PORTLAND—Harper Brass Works
Oregon Brass Works
Oregon Foundry Co.
Willamette Iron & Steel Works

## PENNSYLVANIA.

ALLENTOWN—Spangler, Chas.
Vulcan Brass Works
BEAVER FALLS—Knott & Harker Co.
BLOOMSBURG—Harman & Hassert
BRADFORD—Bradford Foundry Co. (Ltd.)
CATASAUQUA—Hercules Metal Works
CHESTER—Crown Smelting Co.
Wetherill, R. & Co.
CONNELLSVILLE—Boyts, Porter & Co. (Also Iron)
Connellsville Machine & Car Co.
Connellsville Machine & Car Co.
CONSHOHOCKEN—Bate, Wm. T. & Son
CORRY—Ajax Iron Works
DANVILLE—Danville Foundry & Machine Co. (Up to 2000 lbs.)
DUBOIS—Osborn Machine Co.
EASTON—Easton Brass & Machine Works
ERIE—Campbell, J. B. Brass Works
Erie Stamping & Mfg. Co.
Germann Bronze Co.
Hays Mfg. Co.
Keystone Brass Co.
Noyes Brass Works
GREENSBURG—Kelly & Jones Co.
HARRISBURG—Hickok, W. O. Mfg. Co.
HOMESTEAD—Homestead Valve Mfg. Co.
JOHNSTOWN—Flood City Mfg. Co.
Suppes Forge & Foundry Co.
LANCASTER—Conestoga Job & Brass Foundry
Fraim, E. T. Lock Co.
Hubley Mfg. Co.
Miller, J. Walter Co.
Slaymaker Lock Mfg. Co.
MARIETTA—Marietta Casting Co.
NEW BRIGHTON—Keystone Bronze Co.
NEW CASTLE—American Car & Ship Hdw. Douds, Frank C. & Co. Mfg. Co.
NORRISTOWN—Wildman Mfg. Co.
NORTH EAST—Eureka Tempered Copper Works
PHILADELPHIA—Ajax Metal Co., 46 Richmond
Belfield, H. Co., 435 N Broad
Bridgman Bros. Co., 1422 Washington av
Bureau Bros., 21st & Allegheny av
Caskey, Wm. & Son, E Norris & Beach
Cohocksink Brass Foundry, 439 Berks
Cramp, Wm. & Sons Ship & Engine Building Co., Beach c Bali
**Devlin, Thos. Mfg. Co., 3d & Lehigh av**
**Evans, S. W. & Son, 4623 Paul Fkd.**
Eynon-Evans Mfg. Co., Clearfield & N 15th
Gaumer, John L. Co., 22d & Wood
Griffiths, Jas. A., 500 N 12th
Halstead & Co. (Founders & Finishers), Hartman Co., 1235 N Front 1129 Cherry
Homer Brass Works (Inc.), 231 Race
Kirn, M. L. & Bro., 2135 N Leithgow
Lonergan, J. E. Co., 211 Race
McHatton Smelting Co., 1500 Wash'n av
Morris, I. P. Co., Beach & Ball
Mousley, Chas. Sons, 457 N 12th
North American Smelting Co., Thompson & Ott, Geo. F., 207 Buttonwood N 9th
Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson
Phosphor-Bronze Smelting Co. (Ltd.), 2200 Wash'n av
Reeves, Paul S. & Son (Red & Yellow Brass, etc.), 1415 Catharine
Rosenthal's, Jos. Sons, 190 Berks
Savill, Thos. & Sons, 11th & Wood
Schoenewald, Robt., 1027 Ridge av
Sheeler-Hemsher Co., 811 Fairmount av
Talmage & Weidley, 228 N 15th
Wright Mfg. Co. (Inc.). 133 Master

**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER**

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CHARTERED 1891 CAPITAL, $100,000

# LAWRENCEVILLE BRONZE COMPANY

## Copper and Bronze Founders

### Thirty-first Street and Penn Ave., PITTSBURG, PA.

### "McGillivray" Hydraulic Valves and "Robertson" Blow-Off Valves

BRASS AND BRONZE CASTINGS FOR RAILROADS, MILL AND GENERAL MACHINERY. CAPACITY, 500 000 LBS. A MONTH. SOLE MANUFACTURERS OF CORINTHIAN BRONZE FOR LOCOMOTIVES AND HOT MILLS.

SOLE MANUFACTURERS OF

### Lawrenceville Bronze Company Malleable Bronze

Tensile Strength, 61,000 lbs. Unequalled for Steam and Hydraulic Purposes.

THIS METAL is very dense, and is unequalled for Steam and Hydraulic purposes. It is also being used successfully for worm and Pinion Wheels. These are cast under pressure and are so accurate that milling is unnecessary. This Metal can be forged or Rolled. Sold in Ingots or Castings.

PITTSBURG—Best Mfg. Co.
Cadman, A. W. Mfg. Co.
Chaplin-Fulton Mfg. Co., 28 Penn av
Damascus Bronze Co., North Side
**FAWCUS MACHINE CO., 2820** Smallman. (See adv. index, end of book)
Keystone Bronze Co. (High Grade)
Kelly & Jones Co., 135 Water
Mackintosh-Hemphill & Co.
Mesta Machine Co.
Newlands Bros., 28th & A. V. Ry.
Pittsburg Brass Mfg. Co., 3153 Penn av
**PITTSBURGH GAGE & SUPPLY** Co., 30th & Liberty av. (See adv. index, end of book)
Pittsburg Lamp, Brass & Glass Co., North Side
**PITTSBURGH VALVE, FOUNDRY** & Construction Co., 26th & A. V. Ry. (See adv. index, end of book)
Vanadium Metals Co., Frick bldg.
PITTSTON—**EXETER MACHINE WKS.** (Rough or Finished). (See adv. index, end of book)
POTTSTOWN—Mayo Damper Co.
Merkel-Light Motor Co.
READING—Crescent Brass Mfg. Co.
Dick Bros.
Excelsior Brass Works (Inc.) (Dry & Green Sands)
Kline & Co.
SCOTTDALE—Scottdale Foundry & Machine Co.
SCRANTON—Everhart Brass Works
Hughes Bros.
McClave-Brooks Co.
Scranton Steam Pump Co.
SOUTH BETHLEHEM—Bethlehem Steel Co.
WARREN—Allegheny Foundry Co.
Jacobson Machine Mfg. Co.
WILKES-BARRE—Vulcan Iron Works
WILLIAMSPORT—Darling Pump & Mfg. Co.
United States Machine Co.
Valley Iron Works (Also Iron)
YORK—Penna. Foundry Co.

## RHODE ISLAND.

CENTRAL FALLS—Newell, Fred. E.
PAWTUCKET—Jenkinson, John
Pawtucket Foundry Co.
PROVIDENCE—Allen Fire Dept. Supply Co.
D & W Fuse Co.
Fuller, Frederic
Lyon, J. W.
Providence Brass Foundry & Machine Co.
White, Stillman Foundry Co.
WOONSOCKET—Woonsocket Machine & Press Co.

## SOUTH CAROLINA.

COLUMBIA—Columbia Machine & Iron Works

## TENNESSEE.

CHATTANOOGA—Price-Evans Foundry Co.
KNOXVILLE—Fair Foundry Co.
Knoxville Foundry & Machine Co.
MEMPHIS—Chickasaw Iron Works

## TEXAS.

BEAUMONT—Beaumont Iron Works
DALLAS—Dallas Brass Mfg. Co.
Mosher Mfg. Co.
DENISON—Knaur & Howe (Also Iron)
Knaur, W. E. & Co.
EL PASO—Union Iron & Brass Works
FORT WORTH—Midland Brass Works
GALVESTON—Walsh & Cleary (Also Iron)
HOUSTON—Dickson Car Wheel Co.
Kettler Brass Mfg. Co.
Southern Brass Mfg. & Plating Co.
MARSHALL—Marshall Car Wheel & Fdry Co.
WEATHERFORD — Weatherford Machine & Foundry Co.

## UTAH.

SALT LAKE—Salt Lake Engineering Works
Union Foundry & Machinery Co.

## VERMONT.

BELLOWS FALLS—Bellows Falls Machine Co.
POULTNEY—Ruggles Machine Co.
ST. ALBANS—St. Albans Foundry & Implements Co.

## VIRGINIA.

BRISTOL—Dominion Iron Works
LYNCHBURG—Hubard Fdry & Machine Works
NORFOLK—Edmonds, W. A. & Co.
Etna Iron Works
Ridgewell & Hall
RICHMOND—Carr, Jas. W.
McGee, O. G. & Son
Richmond Foundry & Mfg. Co. (Light)
Richmond Iron Works
Tredegar Co.
SUFFOLK—Ousler, H. R. (Also Iron)

## WASHINGTON.

BALLARD—Ballard Iron Works
BELLINGHAM—Bellingham Engineering & Machine Works
OLYMPIA—Olympia Iron Works (C. Z. Mason, Prop.)
SEATTLE—Eagle Brass Foundry Co.
Enterprise Brass Foundry Co.
Moran Co., R. R. av nr Charles
Seattle Brass Co., Andover & Liberty
Vulcan Iron Works, 5th av & Seattle blvd
SPOKANE—National Iron Works
Pacific Iron Works
Union Iron Works
TACOMA—Griffin Wheel Co. (also Iron)
Puget Sound Iron & Steel Works

## WEST VIRGINIA.

PARKERSBURG—Stiles Mfg. Co.
POINT PLEASANT—Point Pleasant Machine Works
WHEELING—Wheeling Mold & Foundry Co.

## WISCONSIN.

BURLINGTON—Burlington Brass Works (Brass Founders & Finishers)
KENOSHA—Badger Brass Mfg. Co.
Frost Mfg. Co.
LA CROSSE—Franklin Iron Works (Also Iron)
MANITOWOC—Manitowoc Brass Foundry Co.
MERRILL—Merrill Iron Works
MILWAUKEE—American Brass Foundry Co.
Claus Automatic Gas Cock Co.
Colnik, C. Mfg. Co.
Heine, Stanley H.

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Hewitt Mfg. Co. (Up to 2000 lbs.), 241 Greenfield av
Hoffman, B. Mfg. Co., 257 6th
Hoffman & Billings Mfg. Co., 96 2d
Johnson Service Co.
Kagel Bros., 1208 St. Paul av
Kruecke Bros. Mfg. Co., 515 Park
Lamp & Miller Mfg. Co., 509 Cedar
Loeffelholz Co., 170 Clinton
Milwaukee Aluminum & Brass Foundry Co.
Milwaukee Brass Mfg. Co.
Milwaukee Bronze Casting Co.
Milwaukee Valve Co.
Rundle-Spence Mfg. Co., 63 2d
Spence Mfg. Co., 279 Park
Standard Brass & Iron Works
Standard Ground Key Works
Wambold Mfg. Co.
Wisconsin Foundry Co., 32d & Locust
RACINE—Belle City Mfg. Co.
Holbrook-Armstrong Iron Co. (Light & Heavy)
Racine Brass & Iron Co.
RICE LAKE—Peters, J. H. & E. A.
SOUTH MILWAUKEE—Stowell Mfg. & Fdry Co.
WATERTOWN—Brandt-Dent Co.

## 1511— Castings (Bridge)

Builders' Iron Foundry (For Caissons, etc.), Providence, R. I.
Chester Steel Castings Co., Chester, Pa.
Nunning, Frank & Son, Cincinnati, O.

## 1512— Castings (Bronze)

(See also Castings, Aluminum Castings, Brass; Castings, Copper; Castings. Phosphor Bronze)

Acme Brass Foundry Co., Los Angeles, Cal.
Ajax Metal Co., 46 Richmond, Phila., Pa., & Birmingham, Ala.
Aluminum Castings Co., Cleveland, O.
American Bronze Co. ("Non-Gran"), Berwyn, Pa.
American Car & Ship Hdw. Mfg. Co., New Castle, Pa.
American Foundry & Mfg. Co., St. Louis, Mo.
American Pin Co., Waterbury, Conn.
Anderson, A. H. (Light & Heavy), 218 N Ann, Chicago, Ill.
Ansonia Brass Foundry Co., Ansonia, Conn.
Attwood Brass Works (Heavy), Grand Rapids
Aurora Metal Co., Aurora, Ill. Mich.
Babbitt, Chas. E., Portland, Me.
Bay State Brass Foundry, 155 A, So. Boston Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa
Best Mfg. Co. ("Climax"), Pittsburg, Pa.
Blake, Edwin J., Hartford, Conn.
Bradford Foundry Co. (Ltd.), Bradford, Pa
Brady Brass Co., 204 10th, Jersey City, N. J
Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.
Bridgeport Foundry & Machine Co., Bridgeport, Conn
Bridgman Bros Co., 1426 Wash'n av, Phila., Pa.
Bristol Brass Co., Bristol, Conn.
BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index end of book)
Brown, Chris., Stamford, Conn.
Buckeye Brass Foundry & Pattern Co. Cleveland, O
Buckeye Iron & Brass Works, Dayton, O.
Builders' Iron Foundry (Light & Heavy. up to 70,000 lbs.), Providence, R. I.
Bureau Bros., Allegheny av, c N 21st, Phila.,
Cadman, A. W. Mfg. Co., Pittsburg, Pa. Pa.
California Artistic Metal & Wire C., San Francisco, Cal.
Canton Brass & Machine Co., Canton, O.
Chambers & Co., Newark, N. J.
Champion Safety Lock Co., Geneva, O.
Chicago Journal Bearing Co. (High Grade), 519 W Van Buren. Chicago, Ill.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati.
City Brass Foundry Co., Cleveland, O. Ohio
Claudat, Frank & Son, 424 E 23d, New York
Clayton & Lambert Mfg. Co., Detroit, Mich
Cleveland Bronze & Brass Works (Light & Heavy), Cleveland, O
Clum & Atkinson (1000 to 3000 lbs.), Rochester. N. Y.
Cohoes Iron Foundry & Machine Co., Cohoes N. Y.
Comstock Wellman Bronze Co., Cleveland, O.
Connellsville Machine & Car Co., Connellsville, Pa
Consolidated Casting Co., Mechanicville, N. Y.
Cox Brass Mfg. Co., Albany, N. Y.
CROSSLEY MACHINE CO., State & Monmouth, Trenton, N. J. (See adv. index, end of book)
Crown Smelting Co., Chester, Pa.
D. & W. Fuse Co., Providence, R. I.
Damascus Bronze Co., N S, Pittsburg, Pa.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Davies & Thomas Co., Catasauqua, Pa.
Day Foundry Co., Buffalo, N. Y.
Dayton Mfg. Co., Dayton, O.
Dempsey, Jno. F. & Co., Lynn, Mass.
De Rome, Louis, San Francisco, Cal.
Detroit Motor Castings Co., Detroit, Mich.
Duroth Mfg. Co., Seward, Pa.
Eastwood Wire Mfg. Co. (¼-oz. to 20,000 lbs.), Belleville, N. J.
Edna Brass Mfg. Co., Cincinnati, O.
ELEVATOR SUPPLY & REPAIR CO., 561 W Monroe, Chicago, Ill. (See adv. index & branch offices end of book)
Empire Foundry Co., New Brunswick, N. J.
EXETER MACHINE WORKS (Rough or Finished), Pittston, Pa. (See adv. index, end of book)
Eynon-Evans Mfg. Co., 1509 Clearfield, Phila. Pa.
Eureka Tempered Copper Wks, North East, Pa.
Falcon Bronze Co., Youngstown, O.
Federal Brass Works, 225 W Illinois, Chicago,
Fraim, E. T. Lock Co., Lancaster, Pa. Ill.
Frankham, Wm. & Son, Canton, O.
Fries & Co., Buffalo, N. Y.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. Co. (Inc.), San Francisco, Cal.
Garwood Bronze & Iron Works, Garwood, N. J.
Gaylord, F. L. Co., Ansonia, Conn.
Germann Bronze Co., Erie. Pa.
Gilb, V. & Son, Birmingham, Ala.
GORHAM CO. ARCH'L BRONZE (High Grade). 5th av & 36th, New York; Works: Providence, R. I. (See adv. index. end of book)
Grand Rapids Brass Co., Grand Rapids, Mich.
Great Lakes Brass Foundry, Bay City Mich.
Guerin, P. E. (Inc.), 23 Jane, New York
Halstead & Co., 1129 Cherry, Phila.. Pa.
Hamden Brass Co., Springfield, Mass.
Hardware & Woodenware Mfg. Co. (Small), 693 B'way, New York
Hardy, Wm. A. & Sons Co., Fitchburg, Mass.
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
HENRY-BONNARD BRONZE CO. (High Grade Brass & Bronze), Mount Vernon, N. Y. (See adv. index, end of book)
Henzman, Richard Ornamental Iron Works, Louisville, Ky.
Hewitt Mfg. Co. (Up to 2000 lbs.), 9 Jackson blvd, Chicago, Ill.
HILLES & JONES CO., East Wilmington, Del. (See adv. index, end of book)
Hoban Brass Foundry Co.. Dayton, O.
Ideal Bronze Co., Cleveland, O.
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
Industrial Pattern & Bronze Co., 998 E 67th. N. E., Cleveland, O.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Ives Hobart B. Co., New Haven, Conn.
JACKSON, WM. H. COMPANY, 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)
Jefferson Brass Foundry, 209 King, Brooklyn,
Jenkins Mfg. Co., Bloomfield, N. J. N. Y.
Johnson Service Co., Milwaukee, Wis.
Jones, Jas. Co., Los Angeles. Cal.
Kettler Brass Mfg. Co., Houston, Tex.
Keystone Bronze Co. (High Grade), Pittsburg, Pa.
Knickerbocker Foundry Co., 348 W 12th, New
Knott, Harker & Co., Beaver Falls, Pa. York
Kruecke Bros. Mfg Co., Milwaukee, Wis.
Kugler & Shane, Baltimore. Md.
Laughlin, Thos. Co., Portland, Me.
LAWRENCEVILLE BRONZE CO. (Railroad. Machinery. etc.). 31st & Penn av. Pittsburg, Pa. (See adv. index. end
Leslie Co., Inc., Lyndhurst, N. J. of book)
Levett, Walker M., 462 10th av, New York
Liberty Brass Works, 303 W. Lombard, Baltimore, Md.
Limerick, J. Arthur Co. (Artistic), Baltimore, Md.
Livermore, Homer F., 85 Pearl, Boston, Mass.
LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)
LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McCafferty, J. H. Co., Boston, Mass.
McFarland Foundry & Machine Co., Trenton, N. J.
McGann, Thos. F. & Sons Co. (Art, etc., 104 Portland, Boston, Mass.
McShane Bell Foundry Co., Holliday & Centre. Baltimore, Md.
Machine Parts Co., Elyria, O.
Magnus Metal Co., 111 B'way, New York
Manhattan Brass Co., 334 E 28th, New York
Mansfield Tempered Copper Co., Mansfield, O.
Mechanics' Foundry & Machine Co., Fall River, Mass.
Merkel-Light Motor Co., Pottstown, Pa.
Mesta Machine Co. (Heavy Rolling Mill, etc.), Pittsburg, Pa.
Midland Brass Works, Fort Worth, Tex.
Miller, J. Walter Co., Lancaster, Pa.
Miller, Edward & Co., Meriden, Conn.
Millett Brass Co., Springfield, Mass.
Montana Iron Works, Butte, Mont.
Monumental Bronze Co., Bridgeport, Conn.
More-Jones Brass & Metal Co., St. Louis, Mo. end of book)
Morris, I. P. Co., Beach & Ball, Phila., Pa.
Mosher, J. R. Brass Works, Greene, N. Y.
Mousley, Chas. & Sons, 457 N 12th, Phila., Pa.
National Aluminum Co., 153 Milk, Boston, Mass.
National Bronze & Aluminum Foundry Co., Cleveland, O.
National-Fulton Brass Mfg. Co. ("Monarch"), Detroit, Mich.
NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
Naulty Smelting & Refining Co. ("Chromax"), 2612 Martha. Phila., Pa.
New Brunswick Iron Works. 9 Water, New Brunswick, N. J.
Newell, Fred E. (Also Aluminum Bronze), Central Falls, R. I.
Noelke-Richards Iron Works, Indianapolis, Ind.
Nordyke & Marmon Co., Indianapolis, Ind.
North American Smelting Co. ("Climax"), 9th & Thompson, Phila., Pa.
Norwalk Brass Co., Norwalk, Conn.
Noyes Brass Works, Erie. Pa.
Nute Foundry Co., Cuyahoga Falls, O.
Oberdorfer, M. L. Brass Co., Syracuse, N. Y.
Ohio Brass Co., Mansfield, O.
Ohio Brass Foundry Co., Cincinnati, O.
Petry, N. A., 422 Commerce, Phila., Pa.
Pevey Foundry Co. (Inc.), Lowell, Mass.
Philadelphia Bronze Works, 811 Cherry, Phila., Pa.
Philadelphia Hardware & Malleable Iron Wks (Inc.), 9th & Jefferson, Phila., Pa.
Phosphor Bronze Smelting Co.. 2200 Washington av, Phila., Pa.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Pioneer Brass Works, Indianapolis, Ind.
PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Portland Co. (Up to 20 Tons), Portland, Me.
Pratt & Cady Co., Hartford, Conn.
Providence Brass Foundry & Machine Co., Providence, R. I.
Raquette Foundry & Supply Co. (Heavy), Massena, N. Y.
Reeves, Paul S. & Son, 1413 Catherine, Philadelphia, Pa.
Richardson, Edro Brass Co., Baltimore, Md.
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
Rider-Bagg Co., Springfield, Mass.
Rockford Brass Works, Rockford, Ill.
Rock Island Metal Foundry, Rock Island, Ill.
Roman Bronze Works, 275 Greene, Brooklyn,
Russell Engine Co., Massillon, O. N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Ryan, J. J. & Co., 105 S Jefferson, Chicago,
Ryder Brass Foundry Co., Bucyrus, O. Ill.
Sanford David C. Co., Bridgeport, Conn.
Sheeler-Hemsher Co., 811 Fairmount av, Phila.,
Sherwood Brass Works, Detroit, Mich. Pa.
Sherwood Mfg. Co., Buffalo, N. Y.
Shriver, T. & Co., Harrison, N. J.
Slack-Horner Brass Mfg. Co., Denver, Colo.
Smeeth-Harwood Co. (For Blast Furnaces, etc.), 2401 W 22d, Chicago, Ill.
SMITH, F. P. WIRE & IRON WORKS, Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
SNEAD & CO. IRON WORKS, ft of Pine, Jersey City, N. J. (See adv. index, end of book)
Spence Mfg. Co., Milwaukee, Wis.
Spencer's, I. S. Sons, Guilford, Conn.
Springfield Brass Co., Springfield, O.
Standard Brass Foundry Co., Cleveland, O.
Standard Metal Mfg. Co., Rector bldg., Chicago, Ill.
Stewart Machinery Mfg. Co., Hammond, Ind.
Stiles Mfg. Co., Parkersburg, W. Va.
Stover Mfg. Co., Freeport, Ill.
Syracuse Aluminum & Bronze Co., Syracuse,
Thacher, Geo. H. & Co., Albany, N. Y. N. Y.
Thiery & Kendricks Mfg. Co., Detroit, Mich.

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Tiffany Studios (High Grade), 347 Madison av, New York
Toledo Brass & Novelty Works, Toledo, O.
Toledo Shipbuilding Co., Toledo, O.
Triumph Electric Co., Cincinnati, O.
Turner Brass Works, Sycamore, Ill.
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)
Tuttle & Bailey Mfg. Co., 83 Beekman, New York
Twentieth Century Brass Mfg. Co., Minneapolis, Minn.
Union Brass Fdy. Co., Lowell, Mass.
U. S. Bronze Co., 1831 Columbus road, Cleveland, O.
Valley Iron Works Co., Appleton, Wis.
Vanadium Metals Co., Frick bldg., Pittsburg, Pa.
Van Arnam Mfg. Co., Fort Wayne, Ind.
Van Duzen, E. W. Co., Cincinnati, O.
Watson, Frye & Co. (Railroad, Mill & Marine, Acid Proof, ¼ to 20,000 lbs.), Bath, Me.
Weber-Knapp Co., Jamestown, N. Y.
Wheeler Bros., Troy, N. Y.
Wheeling Mold & Fdry Co., Wheeling, W. Va.
**WHITLOCK COIL PIPE CO.**, Hartford, Conn. (See adv. index, end of book)
Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.
Williams, John, 558 W 27th, New York
Youngstown Bronze & Iron Fdry Co., Youngstown, O.

## 1513—Castings (Builders')

(See firms marked with a Star (*) in Iron, Architectural & Ornamental; also Machinists & Founders)

## 1514—Castings (Carbon Steel)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
St. Louis Steel Foundry, St. Louis, Mo.

## 1515—Castings (Charcoal Iron)

Garrison, A. Foundry Co., Pittsburg, Pa.
National Roll & Machine Co. (Heavy), Avonmore, Pa.
Philadelphia Roll & Machine Co., Phila., Pa.

## 1516—Castings (Chemical Works)

Best Mfg. Co., Pittsburg, Pa.
Bethlehem Foundry & Machine Co., South Bethlehem, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Co-Operative Foundry Co., Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Ferguson & Lange Foundry Co., Clybourn av & Willow, Chicago, Ill.
Interstate Foundry Co., Cleveland, O.
Larrabee, H. C. & Co., Baltimore, Md.
**LUNKENHEIMER CO., General Offices & Works**, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end
Marshall Foundry Co., Pittsburg, Pa. of book)
Moore Bros. Co. (High Grade), Elizabeth, N. J.
Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.
Richmond Iron Works, Richmond, Va.
Stuart & Peterson Co., Burlington, N. J.
**WHEELER CONDENSER & ENGI**neering Co., Cartaret, N. J. (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 1517— Castings (Chilled)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Eagle Fdry & Machine Co., Fort Scott, Kans.
Garrison, A. Foundry Co., Pittsburg, Pa.

## 1518—Castings (Chrome Steel)

Chrome Steel Works (Crucible & Open Hearth), Chrome, N. J.
Crucible Steel Casting Co., Lansdowne, Pa.
Mesta Machine Co., Pittsburg, Pa.
Taylor Iron & Steel Co., High Bridge, N. J.

## 1519—Castings (Compressor)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end
Vanadium Metals Co., Pittsburg, Pa. of book)

## 1520—Castings (Converter Steel)

Central Foundry Co., Bradford, Pa.

## 1521— Castings (Copper)

Acme Brass Foundry Co., Los Angeles, Cal.
American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Buckeye Brass Foundry & Pattern Co., Cleveland, O.
Clum & Atkinson, Rochester, N. Y.
Connellsville Machine & Car Co., Connellsville, Pa.
Consolidated Casting Co., Mechanicville, N. Y.
Crown Smelting Co., Chester, Pa.
Dallas Brass Mfg. Works, Dallas, Tex.
**DOBBIE FOUNDRY & MACHINE CO.**, Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co., Belleville, N. J.
Eureka Tempered Copper Works, North East, Pa.
Eynon-Evans Mfg. Co., 1509 Clearfield, Phila.,
Forest City Electric Co., Cleveland, O. Pa.
Germann Bronze Co., Erie, Pa.
Gilb, V. & Son, Birmingham, Ala.
Great Lakes Brass Foundry (Solid), Bay City,
Hamden Brass Co., Springfield, Mass. Mich.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Jefferson Brass Foundry, 209 King, Brooklyn.
Jenkins Mfg. Co., Bloomfield, N. J. N. Y.
Johnson Service Co., Milwaukee, Wis.
Keystone Bronze Co., Pittsburg, Pa.
Kraushaar Brass Mfg. Co., St. Louis, Mo.
**LAWRENCEVILLE BRONZE CO.** (Railroad, Machinery, etc.), 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)
Liberty Brass Works, 303 W Lombard, Baltimore, Md.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
McShane Bell Foundry Co., Baltimore, Md.
Mansfield Tempered Copper Co., Mansfield, O.
Midland Brass Works, Ft. Worth, Tex.
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
National Aluminum Co., 153 Milk, Boston,
Ohio Brass Co., Mansfield, O. Mass.
Pevey Foundry Co. (Inc.), Lowell, Mass.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Reeves, Paul S. & Son, 1415 Catherine, Phila., Pa.
Richardson, Edro Brass Co., 318 N Holliday, Baltimore, Md.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sheeler-Hemsher Co., 811 Fairmount av, Phila., Pa.
Smeet-Harwood Co. (For Blast Furnaces, etc.), 2401 W 22d, Chicago, Ill.
Thacher, Geo. H. & Co., Albany, N. Y.
Toledo Brass & Novelty Works, Toledo, O.
Turner Brass Works, Sycamore, Ill.
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)
Union Brass Foundry Co., Lowell, Mass.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Ward & Williams, Hancock, Mich.
Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

## 1521a—Castings (Crucible Steel)

(See firms in Castings, Steel, with the word Crucible following their names)

## 1522—Castings (Die Cast)

American Die Casting Co., Indianapolis, Ind.
Doehler Die Casting Co. (Die Casting & Die Cast Babbitt Bearings), Court & 9th, Brooklyn, N. Y.
Finished Parts Mfg. Co., Newark, N. J.
Franklin, H. H. Mfg. Co., Syracuse, N. Y.
Garrison, A. Foundry Co., Pittsburg, Pa.
Germann Bronze Co., Erie, Pa.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
Mogul Metal Co., Detroit, Mich.
Muzzy-Lyon Co., Detroit, Mich.
National Lead Co., 111 B'way, New York
Stroh Die Molded Casting Co., Milwaukee, Wis.
Syracuse Die Moulded Casting Co., Syracuse, N. Y.
Wing, J. T. & Co. (Journal Bearing & Hard Metal), Detroit, Mich.

## 1523— Castings (Dredge)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Detroit Steel Casting Co. (Steel), Detroit, Mich.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Penn. Steel Co., 1421 Chestnut, Phila., Pa.

## 1524—Castings (Electrical)

Bonney-Floyd Co. (Steel), Columbus, O.
Brylgon Steel Casting Co. (Special Low Carbon), New Castle, Del.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Chester Steel Casting Co., Chester, Pa.
Chicago Steel Foundry Co. (Magnetic Steel), Rookery Bldg., Chicago, Ill.
Davies & Thomas Co., Catasauqua, Pa.
Drummond, M. J. & Co., 182 B'way, New York
Empire Foundry Co., New Brunswick, N. J.
Federal Steel Foundry Co. (Open Hearth Steel), Chester, Pa.
Jones, W. A. Foundry & Machine Co., 1401 W North av, Chicago, Ill.
Pittsburg Steel Foundry (Open Hearth Steel), Pittsburg, Pa.
St. Louis Steel Foundry (Manganese & Carbon Steel), St. Louis, Mo.
West Steel Casting Co. (Crucible Steel), Cleveland, O.

## 1524a—Castings (Flint Rim)

**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)

## 1525—Castings (Gas Engine)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CHISHOLM & MOORE MFG. CO., 49th &** Lake, Cleveland, O. (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book

## Castings (Gas & Water)

(See Cast Iron Pipe Manufacturers, Gas & Water; also Gas Works Apparatus & Construction)

## 1526—Castings (German Silver)

Chambers & Co., Newark, N. J.
Ives, H. B. Co., New Haven, Conn.
Jenkins Mfg. Co., Bloomfield, N. J.
Riverside Metal Co., Riverside, N. J.

## 1527—Castings (Glass Furnace)

Dixon, H. L. Co., Pittsburg, Pa.

## 1528—Castings (Grey Iron)

(This List is duplicated under Machinists & Founders; see also Castings, Malleable Iron)

### ALABAMA.

MONTGOMERY—Hartley Boiler Works

### CALIFORNIA.

CHICO—Diamond Match Co. (Engineer'g Dept.)
LOS ANGELES—Llewellyn Iron Works
McCan Mechanical Works
Washington Iron Works
STOCKTON—Stockton Iron Works
Samson Iron Works (Inc.)
SAN FRANCISCO—Graham, Jas. Mfg. Co. (Light)

### CONNECTICUT.

ANSONIA—Farrel Foundry & Machine Co.
BRIDGEPORT—Bridgeport Foundry & Machine Co.
Bridgeport Malleable Iron Co. (Refined)
Pequonnock Foundry (Light & Medium)
BRISTOL—Sessions Foundry Co. (Small & Large to Order)
DERBY—Birmingham Iron Foundry (Heavy)
GUILFORD—Spencer's, I. S. Sons
HARTFORD—Capitol Foundry Co.
Hartford Foundry Corpn.
Laragy, P.
Pratt & Cady Co.
MIDDLETOWN—Wilcox, Crittenden & Co.

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NEW BRITAIN—Malleable Iron Works
Neumann & Alling
Union Mfg. Co. (Light)
NEW HAVEN—Barnum, S. H.
McLagon Foundry Co. (All Weights)
Warner, G. F. Mfg. Co.
NEW LONDON—Hopson & Chapin Mfg. Co. (High Grade, up to 1000 lbs.)
New London Marine Iron Works
NORWALK—Arnold Co.
Meeker's Union Foundry Corp.
NORWICH—Vaughn Foundry Co.
ROCKY HILL—Champion Mfg. Co.
SHELTON—Meyers, Fred'k (Small Castings a Specialty)
SOUTH NORWALK—Norwalk Iron Works Co.
Wheeler Bros.
TORRINGTON—**TURNER & SEYMOUR** Mfg. Co. (Small). (See adv. index, end of book)
WATERBURY—Manufacturers' Foundry Co.
Waterbury Castings Co. (Cylinder)
Waterbury Foundry Co. (Low & Medium Grade Castings)
WINSTED—Moore, Franklin Co. (Light)

## DELAWARE.

WILMINGTON—Harlan & Hollingsworth Corporation (Rough & Finished)
**HILLES & JONES CO. (Up to 75** Tons). (See adv. index, end of book)

## GEORGIA.

ATLANTA—American Brake Shoe & Fdry Co.
Atlanta Machine Works
Hancock-Holmes Foundry & Machine Wks.
Kehoe Iron Works
Pratt Engineering & Machine Co.
Southern Iron & Equipment Co.
Withers Foundry & Machine Works
CORDELE—Tomlin-Harris Machine Co.
SAVANNAH—Kehoe Iron Works

## ILLINOIS.

AURORA—Aurora Foundry Co. (Machine Pul-
Love Bros. (Inc.) ley Castings, etc.)
BELVIDERE—National Sewing Machine Co.
CHAMPAIGN—Burr, E. M. & Co.
CHICAGO—American Building Foundry Co., 1338 W 22d
Brady, Jas. A. Foundry Co. (High Grade Machinery Castings). 35th & Ashland av
**BROWN BROS. MFG. CO., 22d &** Campbell av. (See adv. index, end of book)
**BUCKEYE ENGINE CO. (of Salem,** O.). (See adv. index, end of book)
**CALDWELL, H. W. & SON (Semi-**Steel), 17th & Western av. (See adv. index & branch offices, end of book)
Dee, Wm. E. Co., 108 Lasalle
Eddy, R. M. Foundry Co. (Boiler & Machinery, Castings, Grate Bars, etc.), 372 W Indiana
**ELEVATOR SUPPLY & REPAIR** Co., 561 W Monroe, Chicago, Ill. (See adv. index, end of book)
Ferguson & Lange Foundry Co. (1 lb. to 50 tons), Clybourn av & Willow
Green Engineering Co., 115 Adams
Illinois Malleable Iron Co., 1801 Diversey blvd
**MONIGHAN MACHINE CO. (Light** & Heavy), 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)
Reedy Foundry Co., 4600 Iowa
**SMITH, F. P. WIRE & IRON** Works (Specialty, Ornamental Building Castings), Lake & Dearborn. (See adv. index, end of book)
Tarrant Foundry Co. (Light & Heavy), 373 W Indiana
Western Foundry Co. (Light Grey), 3654 S Kedzie av
CHICAGO HEIGHTS—American Brake Shoe & Foundry Co.
FRANKLIN PARK—Franklin Park Fdry Co.
FREEPORT—**ARCADE MFG. CO.** (Light). (See adv. index, end of book)
Stover Mfg. Co. (Light)
Ziegler-Schreyer Mfg. Co. (Light & Heavy)
HARVEY—Enterprise Co. (1 oz. to 3½ tons)
Nordyke & Marmon Co.
KANKAKEE—Kankakee Mfg. Co.
LITCHFIELD—Litchfield Foundry & Machine Co.
MOUNT VERNON—Mount Vernon Car Mfg. Co.
NORTH CHICAGO—Chicago Hardware Foundry Co. (Best Light Grey)
PEORIA—Excelsior Foundry Co.
QUINCY—Central Iron Works
ROCKFORD—Love, M. A. Mfg. Co.
Rockford Iron Works.
ROCK ISLAND—**BLAKE SPECIALTY** Co., 2412 3d av. (See adv. index, end of book)
**ROCK ISLAND MFG. CO. (See adv.** index, end of book)
STERLING—Sterling Foundry Co.
WEST CHICAGO—American Heater Mfg. Co. (Soft & Strong)

## INDIANA.

COLUMBUS—Caldwell & Drake Iron Works (Inc.) (Machinery Castings a Specialty)
EVANSVILLE—Indiana Stove Works
FORT WAYNE—Bass Foundry & Machine Co.
INDIANAPOLIS—Enterprise Fdry & Fence Co.
Indianapolis Foundry Co. (Light)
McNamara-Koster Foundry Co. (Light & Heavy)
National Malleable Castings Co.
Over, Ewald
LAFAYETTE—Wallace Machine & Fdry Co.
LOGANSPORT — Western Motor Co. (Light & Soft)
MARION—Marion Grey Iron Fdry Co.
MICHIGAN CITY—Haskell & Barker Car Co.
MUNCIE—Muncie Foundry & Machine Co.
Nordyke & Marmon Co.
RUSHVILLE—Scott-Madden Iron Works Co. (See St. Louis, Mo.)
SOUTH BEND—Meyer Foundry & Machine Co.
South Bend Foundry Co.
TERRE HAUTE—Gartland Foundry Co.
WABASH—Wabash Foundry & Machine Co.
WARSAW—Maish Mfg. Co.

## IOWA.

DAVENPORT—Davenport Machine & Fdry Co.
Killing, E. Moulding Machine Works
KEOKUK—Scott-Madden Iron Works Co. (See St. Louis, Mo.)
MUSCATINE—Niver Iron Works Co. (Light & Heavy, for All Purposes)
OTTUMWA—Ottumwa Iron Works
WATERLOO—Waterloo Malleable Iron Works

## KANSAS.

FORT SCOTT—Eagle Foundry & Machine Co.

## MAINE.

PORTLAND—Portland Co. (Up to 20 Tons)

## MARYLAND.

BALTIMORE—Baltimore Steel Car & Foundry Co., Continental bldg
Bartlett, Haywood & Co. (All Sizes)
Bate's, James Sons, Pratt & President
Carr, S. R. & Co., Boston & Montford av
Chesapeake Iron Works, Bayard & Severn
De Ved & Sons Sash Weight Co. (All Kinds), 813 S Howard
**ELLICOTT MACHINE CO., Bush &** Severn. (See adv. index, end of book)
Flynn & Emrich Co.
Kennedy's, P. Foundry & Baltimore Malleable Iron & Steel Casting Co. (Soft)
Kugler & Shane
Lacy, Jas. J. Co., 1401 Block
Larrabee, H. C. & Co.
Latrobe Foundry Co.
Levering Bros., 230 Hughes av
Montford Machine Casting Co.
Poole Engineering & Mach'y Co., Woodbury
Sexton, S. B. Stove & Mfg. Co. Sta.
Weiskittle, A. & Son Co.

## MASSACHUSETTS.

ATHOL—Athol Machine Co.
BOSTON—Gibby Foundry Co., 96 Condor, E. B.
Laconia Car Co. Works, 100 Boylston
Smith & Lovett Co., 125 Albany
CHICOPEE—Ames Foundries (A. G. Spaulding & Bro. Mfg. Co.)
EASTON—Belcher Malleable Iron Co.
FALL RIVER—Fall River Foundry & Machine
Mechanic Foundry & Machine Co. Co.
FITCHBURG—Goodnow, L. H. Foundry Co.
GARDNER—Gardner General Foundry Co.
LOWELL—Doherty Bros.
Nichols Foundry Co.
SPRINGFIELD—Bausch Machine Tool Co.
Davitt Iron Foundry
Hawkins, R. F. Iron Works
Springfield Iron Works
Walsh Boiler & Iron Works
Wason Mfg. Co.
WALTHAM—Waltham Foundry Co.
WORCESTER—Pond, L. W. Machine & Foundry Co.

## MICHIGAN.

ADRIAN—Kell's Foundry & Machine Co.
BAY CITY—Excelsior Foundry Co.
**MacKINNON BOILER & MACHINE** Co. (Up to 30,000 lbs.) (See adv. index, end of book)
DETROIT—Acme Fdry Co., Isabell & Michigan
Buhl Malleable Co. av
Central Foundry Co., 195 E. Atwater
Co-operative Foundry, Junction & Henrietta
Detroit Ship Building Co., ft. of Orleans
Detroit Stoker & Foundry Co. (Light & Heavy), Grand blvd & Riopelle
Enterprise Foundry Co.
Ideal Mfg. Co., 570 Franklin
**RUSSEL WHEEL & FOUNDRY** Co. (See adv. index, end of book)
Michigan Grey Iron Castings Co., Cedar & Harbaugh
Monarch Foundry Co., Greenwood & G. T.
Standard Foundry Co., 22 Chene
GRAND HAVEN—Dake Engine Co. (Any Size up to 5 Tons)
GRAND RAPIDS—Hartmann, H. J. Fdry Co.
KALAMAZOO—Clarage Foundry & Mfg. Co.
LANSING—Bement Co.
Capitol Casting Co.
Hildreth Mfg. Co.
Michigan Brass & Iron Works
MARSHALL—New Process Steel Co.
PONTIAC—Flanders Mfg. Co. (High Grade)
SAGINAW—Bartlett, A. F. & Co.
YPSILANTI—Michigan Machinery Mfg. Co.

## MINNESOTA.

DULUTH—Imperial Iron Works (Up to 7 Tons)
Marine Iron Co.
**NATIONAL IRON CO. (See adv.** index, end of book)
MINNEAPOLIS—Crown Iron Works Co.
**MINNEAPOLIS STEEL & MACHIN-**ery Co. (Heavy). (See adv. index, end of Northwestern Foundry (Inc.) book)
Peteler Car Co.
Standary Foundry & Machine Co.
ST. PAUL—St. Paul Foundry Co.
Valley Iron Works
Western Iron Works (Soft Grey), Penn av &
ST. PETER—Bornemann, Adolph. Rice
STILLWATER—Jesse, August.

## MISSOURI.

CHILLICOTHE—Way, Frank Foundry & Machine Co.
KANSAS CITY—Security Stove & Mfg. Co.
ST. LOUIS—American Brake Shoe & Fdry Co.
American Car & Foundry Co., 615 Olive
American Foundry & Mfg. Co. (Small)
Banner Iron Works
Curtis & Co. Mfg. Co., Wellston Station
Green's Car Wheel Mfg. Co.
St. Louis Car Co. (Railway, etc.)
St. Louis Malleable Casting Co.
Scott-Madden Iron Works Co. (1 lb. to 10,000 lbs.). Third Nat'l Bank bldg; Works: Keokuk, Ia., & Rushville, Ind.
Union Iron & Foundry Co., 1452 S 2d
SPRINGFIELD—United Iron Works Co. (From 1-4 to 15,000 lbs.)
WEBB CITY—Central Foundry Co.
Webb City & Carterville Foundry & Machine Works

## MONTANA.

BUTTE—Montana Iron Works.

## NEW HAMPSHIRE.

LACONIA—Laconia Car Co. Works (of Boston,
LANCASTER—Thompson Mfg. Co. Mass.)
NASHAU—White Mountain Freezer Co. (Light & Heavy to Order)

## NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co.
**WHEELER CONDENSER & EN-**gineering Co. (See adv. index, end of book)
EAST NEWARK—Hewitt, Jno. Foundry Co.
ELIZABETH—Moore Bros. Co. (High Grade).
Moore, Sam'l L. & Sons Corp'n
ELIZABETHPORT—**BROWN, A. & F. CO.** (See adv. index, end of book)
GARWOOD—Garwood Bronze & Iron Works (Light)
GRENLOCH—Bateman Mfg. Co. (Light, in
HARRISON—Shriver, T. & Co. Quantities)
HOBOKEN—Focht's, Geo. Sons

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JERSEY CITY—**SNEAD & CO. IRON** Works, ft of Pine. (See adv. index, end of book)
MAHWAH—American Brake Shoe & Fdry Co. (For Railroad Use)
NEWARK—Barlow Foundry Co. (Soft Grey Iron a Specialty)
Hewes & Phillips Iron Works (Heavy)
Meeker Foundry Co. (Light, for All Purposes)
Sacks, Louis Iron Fdry (Star Heel Plate Co.)
Traud, Alexander Co.
NEW BRUNSWICK—Empire Foundry Co.
New Brunswick Iron Works, 9 Water
PATERSON—Eastwood, Benj. Co. (All Sizes, ¼ lb. to 30,000 lbs.)
PHILLIPSBURG—Firth, Roland & Son
TRENTON—**CROSSLEY MACHINE CO.,** State & Monmouth. (See adv. index, end of book)
McFarland Foundry & Machine Works
Reeves Foundry Co. (High Grade)
**THROPP'S, JOHN E. SONS CO. (All** Sizes), Ft. of Lewis (See adv. index, end of book)

## NEW YORK.

ALBANY—Hartnett, John J.
Thacher, Geo. H. & Co.
Townsend Furnace & Machine Shop Co.
BALLSTON SPA—Davidson-Namack Fdry Co.
BUFFALO—American Brake Shoe & Fdry Co.
Buffalo Co-op. Stove Co., Amherst & Tonawanda
**BUFFALO FOUNDRY & MACHINE** Co. (Up eo 200 Tons) (See adv. index, end of book)
Farrar & Trefts
Frontier Iron Works (Light & Heavy Machinery Castings, etc.)
Howard Iron Works, Chicago & Granger
Lake Erie Engineering Works (Up to 50
Lawlor Iron Works, 67 Mississippi Tons)
New York Car Wheel Co. (& Chilled), 15
Standard Foundry Co. Forest av
Trout, H. G. & Co., 226 Ohio
Washington Iron Works
CAMBRIDGE—Lovejoy Co.
COHOES—Cohoes Iron Foundry & Machine Co.
CORNING—Allen, E. R. Foundry Co. (Medium &
COXSACKIE—Newbury, J. G. Heavy)
ELMIRA—Elmira Foundry Co. (Light &
GOSHEN—Newbury, Jay H. Heavy)
GOWANDA—Gowanda Agricultural Works.
GREEN ISLAND—Sweet & Doyle Foundry & Machine Co. (Up to 30,000 lbs.)
HOOSICK FALLS—Wood, Walter A. Mowing & Reaping Machine Co.
HORSEHEADS—Weller Hardware & Foundry
MANLIUS—Cheney, S & Sons (Small) Co.
MASSENA—Raquette Foundry & Supply Co.
MIDDLETOWN—Coleman, Galen
MONROE—Newbury Mfg. Co. (For Steam Fittings, etc.)
NEWBURGH—**ABENDROTH & ROOT** Mfg. Co. (See adv. index, end of book)
Marvel, T. S. Shipbuilding Co.
Newburgh Ice Machine & Engine Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—**BLISS, E. W. CO., 19** Adams. (See adv. index, end of book)
Burr & Houston Co., 84 Calyer. (Light)
Columbia Machine Works & Malleable Iron Co., 269 Chestnut
Pirkl, John Iron Works (Inc.) (Ornamental), 240 N 10th
Taylor & Co., Morgan & Norman avs

### Boroughs of Manhattan & Bronx.

NEW YORK—**ABENDROTH & ROOT** Mfg. Co., Fulton bldg. (See adv. index, end of book)
American Bridge Co., 30 Church
American Car & Foundry Co., 165 B'way
Bethlehem Steel Co., 111 B'way
**BROWN, A. & F. CO., 172 Ful**ton. See adv. index, end of book)
**BUCKEYE ENGINE CO. (of Salem,** O.), 39 Cortlandt. (See adv. index, end
Crane, W. M. Co., 16 W 32d of book)
Hardware & Woodenware Mfg. Co. (Small)
Mietz, August A., 128 Mott. 693 B'way
Treadwell, M. H. Co. (10 to 50,000 lbs.) 90 West
United States Cast Iron Pipe & Foundry Co. (Heavy), 71 B'way
Universal Caster & Foundry Co. (Small & Medium), 1170 B'way

**(End of New York City)**

PEEKSKILL—Crane, Wm. M. Co.
ROCHESTER—Enterprise Foundry Co.
Eureka Foundry Co.
Jones, J. Emory (Est. of)
SALAMANCA—Salamanca Engine Iron Co. (Up to 1000 lbs.)
SANDY HILL—Sandy Hill Iron & Brass Works
SARATOGA SPRINGS—Baker & Shevlin Co. (Up to 20 Tons)
SYRACUSE—Empire Foundry Co.
Engelburg Huller Co.
General Foundry & Machine Co.
Smith & Caffrey (Prop's) (Phoenix-Porter
Stearns, E. C. & Co. Foundry
Straight Line Engine Co. (Loam or Green Sand to 20,000 lbs.
TROY—Marshall Foundry (James W. Hislop Prop.)
Neemes Bros. (Heavy)
Reynolds, Chalou Foundry Co.
Reynolds, G. W. H. Foundry Co.
West Side Foundry Co. (Plain & Machined. (Light & Heavy), Watervliet
UTICA—Munson Bros Co.
Utica Steam Engine & Boiler Works (Semi Steel)

## NORTH CAROLINA.

RALEIGH—Raleigh Iron Works Co.

## NORTH DAKOTA.

FARGO—Fargo Foundry Co.

## OHIO.

AKRON—Akron Foundry Co.
Taplin-Rice-Clerkin Co.
BOWLING GREEN—Thornburgh Mfg. Co. (Light & Heavy)
CANTON—Alliance Foundry Co. (Light & Heavy, up to 15 Tons
American Sheet & Tin Plate Co., Roll & Machine Works, (Up to 20 tons)
**CANTON FOUNDRY & MACHINE** Co. (Light & Heavy) (See adv index, end of book)
Dick, Jos. Foundry Co.
Novelty Iron Co.
CINCINNATI—Bollman-Wilson Foundry Co., 506 E Front
Bruce, John J., Foundry Co., 2419 Colerain av
**BUCKEYE ENGINE CO. (of Salem,** O.), Ingalls bldg. (See adv. index, end of book)
Buckeye Foundry Co., 2257 Buck
Elmwood Castings Co., Elmwood pl
Erhart, Chris., 1237 W 6th
Eureka Foundry Co., 1110 Richmond
Haven Malleable Castings Co., Dane & Knowlton
Knecht, Victor Co. (Light & Heavy), 816 Wade
Lane & Bodley Co., Paddock rd & Ross av
Morris, John B. Foundry Co., Court & Harriett
Mowry Car Wheel Works Co. (For Machinery, etc.), 2401 Eastern av
Oberhelman, J. A. Foundry Co., Harrison av & Buel
Queen City Foundry Co. (All Kinds of Castings), Spring Grove av. & Alabama av
Tatum, Samuel C. Co. (Fine Castings)
CLEVELAND—Acme Foundry Co. (Fine, Light & Medium)
American Range & Foundry Co. (Light)
Bowler Foundry Co.
Browning Engineering Co.
**BUCKEYE ENGINE CO. (of Salem,** O.), New England bldg. (See adv. index, end of book)
City Foundry Co. (Light & Heavy)
**CLEVELAND PUNCH & SHEAR** Works Co. (See adv index, end of book)
Fanner Mfg. Co.
Ferro Machine & Foundry Co., Wade bldg
Forest City Foundry & Mfg. Co. (Small)
Fulton Foundry Co. (All Kinds), 1209 Marquette, N E
Grabler Mfg. Co. (1 ounce to 100 lbs.)
Hill Clutch Co.
Interstate Foundry Co., E 61st & Erie R. R.
Johnson & Jennings Co.
Madison Foundry Co. (Light & Heavy)
Ohio Foundry Co. (Light & Heavy)
Palmers & De Mooy Foundry Co. (Light Soft Grey Iron a Specialty)
Standard Foundry & Mfg. Co. (Light Castings & Hardware Specialties)
Taylor & Boggis Foundry Co. (Light), 1913 W 3d, S W
Variety Iron & Steel Works Co. (Heavy)
Walworth Run Foundry Co., 2488 W 27th
COLUMBUS—McDonald Bros. S W
DAYTON—Buckeye Iron & Brass Works
Seybold Foundry Co.
HAMILTON—Central Foundry Co. (Machine Molded Pulley Castings, etc.)
Hamilton Foundry & Machine Co.
**HOOVEN, OWENS, RENTSCHLER** Co. (Heavy & Machinery) (See adv. index, end of book)
Miami Foundry Co. (Light & Medium)
Peerless Foundry Co. (Light)
Sohn & Rentschler
KENTON—**CHAMPION IRON CO.** (See adv. index, end of book)
LORAIN—Lorain Machine & Forge Co.
MARIETTA—Pattin Bros. Co.
MASSILLON—Hess-Snyder Co.
Massillon Foundry & Machine Co.
Massillon Iron & Steel Co.
Russell Engine Co.
MINERVA—Minerva Hardware Mfg. Co. (Light)
MOUNT VERNON—Cooper, C. & G. Co., The (Up to 6 Tons)
NORWALK—Norwalk Iron & Brass Foundry Co.
PORTSMOUTH—Portsmouth Machine & Casting Co.
Portsmouth Steel Co.
RIPLEY—Danbery Foundry Co.
SALEM—**BUCKEYE ENGINE CO.** (Up to 10 Tons) (See adv. index, end of book)
SHELBY—Shelby Foundry Co. (Light & Heavy)
SPRINGFIELD—Fairbanks Co.
Gray Iron Casting Co.
Hennessy Foundry Co.
Robbins & Meyers Co. (Light & Medium)
TOLEDO—**DONOVAN WIRE & IRON** Co., Chicago & W. & L. E. Ry. (See adv. index, end of book)
McNaull-Boiler Mfg. Co.
Milmine, H. B. & Co.
Superior Iron & Mfg. Co., Works: Wauseon, Toledo Foundry & Machine Co. Ohio
Toledo Ship Building Co.
WARREN—Trumbull Mfg. Co.
WAUSEON—Superior Iron & Mfg. Co. (See Toledo)
WELLSVILLE—Menough Foundry Co. (Light & Heavy)
WESTERVILLE—Hance, J. W. Foundry Co.
YOUNGSTOWN—Youngstown Bronze & Iron Foundry Co. (Small)
Youngstown Foundry & Machine Co. (Heavy, for Rolling Mills, etc.)

## OREGON.

PORTLAND—Independent Foundry Co.

## PENNSYLVANIA.

ALLENTOWN—Daugherty Foundry Co. (Light & Heavy)
AVONMORE—Keystone Steel Foundry Co. (10 lbs. to 5 Tons)
National Roll & Foundry Co. (Heavy)
BEAVER FALLS—Keystone Driller Co.
BIRDSBORO—**BIRDSBORO STEEL** Foundry & Machine Co. (Grey, Sand & Loam)
BLOOMSBURG—Richard Mfg. Co.
BRADDOCK—Braddock Machine & Mfg. Co.
BRADFORD—Blaisdell Machinery Co. (1 lb. to 3000 lbs.)
BRISTOL—Standard Cast Iron Pipe & Foundry Co. (Up to 25 Tons)
BURNHAM—Standard Steel Works Co. (See Phila.)
BUTLER—Butler Engine & Foundry Co.
CHAMBERSBURG—Chambersburg Engineering Co. (Up to 100 Tons)
COATESVILLE—Coatesville Foundry & Machine Co. (Light & Heavy)
COLEBROOKDALE—Colebrookdale Iron Co.
COLUMBIA—Columbia Grey Iron Co. (Light Soft Grey Iron)
CONNELLSVILLE — Connellsville Machine & National Foundry & Machine Co. Car Co.
DANVILLE—Danville Foundry & Machine Co. (Up to 40,000 lbs.)
DUBOIS—Dubois Iron Works
Osborn Machine Co.
EASTON—Kuebler Foundries (Inc.)
ELLWOOD CITY—Standard Engineering Wks. (Up to 25 Tons)
EPHRATA—Sprecher Mfg. Co. (Up to 1000 lbs.)
ERIE—Ball Engine Co. (Up to 20 Tons)
Cascade Foundry Co.
Erie Engine Works (Up to 25 Ton)
Erie Foundry Co.
Lakeside Foundry Co.
Morse Iron Works
Nagle Corliss Engine Works (Heavy)
National Foundry Co.
Urick Foundry Co.
Walker Foundry Co.
FREEMANSBURG—Shimer, Wm. Sons & Co.
FULLERTON—Lehigh Foundry Co. (Up to 50 Tons, Rough or Machined)
GROVE CITY—Bessemer Foundry Co.
HANOVER—Heindel Foundry Co. (1 lb. to 20 Tons)

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HARRISBURG—Harrisburg Foundry & Machine Works
HOLLIDAYSBURG — McLanahan-Stone Machine Co.
JOHNSTOWN—Globe Iron & Foundry Co.
Lorain Steel Co. (Specialty R. R. Castings)
Suppes Forge & Foundry Co.
LANCASTER—Hubley Mfg. Co. (Light Finished in Any Manner)
LANSDALE—Heebner & Sons
LEBANON—North Lebanon Foundry Co. (Up to 5 Tons)
Treadwell, M. H. Co. of Pennsylvania (10 to 50,000 lbs.)
McKEES ROCKS — **TAYLOR-WILSON** Mfg. Co. (See adv. index, end of book)
MEADVILLE—Phoenix Iron Works Co.
MOUNT JOY—Grey Iron Casting Co.
NEW CASTLE—Douds, F. C. & Co.
NORRISTOWN—Wildman Mfg. Co. (Light)
NORTH WALES—North Wales Machine Co. (Inc.)
PHILADELPHIA—Bernstein Mfg. Co., 3d & Brill, J. G. Co. Allegheny av
Creswell, Sam J. Iron Works, 23d cor. Cherry
Diller, Caskey & Keen (Light) 6th & Berks
Flagg, Stanley G. & Co., Morris bldg
**KUTZTOWN FOUNDRY & MA**chine Co., 116 N Broad. (See adv. index, end of book)
Meerbach & Schneider, 1612 Vandike F'k'd
Morris, I. P. Co. (Up to 50 Tons), Beach & Ball
North Bros. Mfg. Co., Lehigh av & American
Philadelphia Hardware & Malleable Iron Works (Inc.) (Soft), 9th & Jefferson
Philadelphia Roll & Machine Co., S 23d & Wash'n av
Philadelphia Stove & Iron Foundry Co., 1625 N 5th
Sheppard, Isaac A. & Co., 4th & Montgomery av
Tioga Foundry Co. (Machinery & Railroad, etc.), 22d & Allegheny av
Standard Steel Works Co., Harrison bldg; Works: Burnham, Pa.
Wharton, Wm. Jr. & Co. (Inc.), 25th & Washington av
Wood, R. D. & Co., 400 Chestnut
PITTSBURG—Adams, S. Jarvis Co.
American Bridge Co.
Best Mfg. Co.
**BUCKEYE ENGINE CO. (of Salem,** O.), Arrott bldg. (See adv. index, end of book)
Cyclops Foundry Co. (Up to 2,000 lbs.)
chinery, Gas Engines, etc.)
**FAWCUS MACHINE CO. (Light &** Heavy), 2828 Smallman. (See adv. index,
Garrison, A. Foundry Co. end of book)
**LAWRENCE IRON & STEEL** Foundry Co. (Heavy), 400 32d, Pittsburg, Pa. (See adv. index, end of book)
Machintosh, Hempbell & Co.
Marshall Foundry Co.
Mesta Machine Co.
Monongahela Casting Co., North Side
Pennsylvania Casting & Machine Co., North Side
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry. (See adv. index, end of book)
Reliance Steel Casting Co.
Rosedale Foundry & Machine Co., N. S.
Sterrit-Thomas Foundry Co.
**UNION FOUNDRY & MACHINE CO.** (See adv. index, end of book)
United Engineering & Fdry Co., Farmers' Bank bldg
Velte Foundry & Machine Co. (For Machinery, Gas Engines, etc.)
PITTSTON—**EXETER MACHINE WKS.** (Heavy). (See adv. index, end of book)
POTTSTOWN—Colebrookdale Iron Co.
Keystone Foundry Co.
PUNXSUTAWNEY—Punxsutawney Foundry & Machine Co.
READING—Gray Iron Foundry Co. (Small & Medium Soft)
SCRANTON—Barker, S. G. & Son
SLATINGTON—Slatington Foundry, Machine & Boiler Works
SOUTH BETHLEHEM—Bethlehem Foundry & Bethlehem Steel Co. Machine Co.
STATAMY—Messinger Mfg. Co.
STYRONE—Burley Heater Co.
WARREN—Allegheny Foundry Co. (For All Purposes)
WEATHERLY—Weatherly Foundry & Machine Co. (Railroad, etc.)
WHITE HAVEN—Wallace, Samuel (Est. of)
WILKES-BARRE—Vulcan Iron Works
WILLIAMSPORT—National Foundry Mfg. & Rundio, Nelson L. Supply Co.
Valley Iron Works (Loom, Dry & Green Sand & Machine Molded)
WRIGHTSVILLE—Susquehanna Casting Co.
YORK—Eyster, Weiser & Co. (Ltd.) (Light)
Penna. Foundry Co.

## RHODE ISLAND.

HILLS' GROVE—Rhode Island Malleable Iron
PAWTUCKET—Pawtucket Fdry. Co. Works
PROVIDENCE—American Ship Windlass Co.
Brown & Sharpe Mfg. Co. (Motor Cylinder, etc.)
Builders' Iron Foundry (Heavy, for Water Works, Pipe Fittings, etc.)
Colvin Foundry Co. (All Kinds)
D & W Fuse Co.
Franklin Machine Co. (1 oz. to 5 ton)
RIVER POINT—Brayton L., Foundry Co.
VALLEY FALLS—Valley Falls Iron Foundry.

## SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works
Riley, John F. Foundry & Machine Works

## TENNESSEE.

BRISTOL—Dominion Iron Works
Standard Cast Iron Pipe & Fdry Co. (See Phila., Pa.)
CHATTANOOGA — American Brake Shoe & Lookout Boiler & Mfg. Co. Fdry Co.
Ross-Meehan Foundry Co.
Southern Skein & Foundry Co.

## TEXAS.

EL PASO—El Paso Foundry & Machine Co.
HOUSTON—Dickson Car Wheel Co.
Houston Car Wheel & Machine Co. (Light & Heavy)

## VIRGINIA.

CLIFTON FORGE—Clifton Forge Machine & Foundry Co.
LYNCHBURG—Lynchburg Foundry Co. (Medium & Heavy)
RICHMOND—Cameron Stove Co.
Carr, Jas. W. (All of Special)
Richmond Foundry & Mfg. Co. (Fine, Soft, Light, Plain or Machined)
Richmond Iron Works

## WASHINGTON.

SEATTLE — Olympic Foundry Co. (Light & Heavy)
Pacific Iron & Steel Works
Variety Iron Works (Light & Heavy)
Vulcan Iron Works
SPOKANE—National Iron Works.
Union Iron Works

## WEST VIRGINIA.

FAIRMONT—Fairmont Mining Machinery Co. (Soft Castings)
WHEELING—Centre Foundry & Machine Co.
Wheeling Mold & Foundry Co.

## WISCONSIN.

CUDAHY—Power & Mining Machinery Co.
MANITOWOC—Manitowoc Fdry & Machine Co.
MILWAUKEE— **CHAIN BELT CO. (See adv. index, end of book)**
Milwaukee Malleable & Grey Iron Works
Nordberg Mfg. Co. (Heavy)
Nortmann-Duffke Foundry Co.
Schwab, R. J. & Sons Co.
**VILTER MFG. CO., 1046 Clinton.** (See adv. index, end of book)
NORTH MILWAUKEE—Nelson Foundry Co. (1 lb. to 1,000 lbs.)
PORT WASHINGTON—Turner Mfg. Co.
RACINE—American Skein & Foundry Co.
Holbrook, Armstrong Iron Co. (Light & Heavy)
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co
WEST BEND—Gehl Bros. Mfg. Co. (Up to 200 lbs.)

## 1529—Castings (Gun Metal)

American Valve & Meter Co., Cincinnati, O.
Belcher Malleable Iron Co., Easton, Mass.
Best Mfg. Co., Pittsburg, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co. (Iron), Buffalo, N. Y. (See adv. index, end of book)
Builders' Iron Foundry, Providence, R. I.
Crown Smelting Co., Chester, Pa.
Eureka Tempered Copper Wks, North East, Pa.
Fewlass, Leen Brass & Iron Co., Cincinnati, O.
Germann Bronze Co., Erie, Pa.
Hunt-Spiller Mfg. Corpn. ("Hunt-Spiller" Gun Iron), Boston, Mass.
**LUNKENHEIMER CO., General Offices,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Philadelphia Roll & Machine Co. (Iron), S 23d & Washington av, Phila., Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Reeves, Paul S. & Son, 1413 Catharine, Phila., Pa.
Rider-Bagg Co., Springfield, Mass.
Rowell, W. G. & Co., Bridgeport, Conn.
Shriver, T. & Co., Harrison, N. J.
Van Duzen, E. W. Co., Cincinnati, O.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walworth Mfg. Co., Boston, Mass.
Williams, E. A. & Son, Jersey City, N. J.
York Mfg. Co., York, Pa.

## 1529a—Castings (Hatfield Steel)

(See firms in Castings, Steel, with the word Hatfield following their names)

## 1530— Castings (Lead)

American Tool & Machine Co., Boston, Mass.
Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)
Farrell, Edward P., 1412 Philpot, Baltimore, Md.
Germann Bronze Co., Erie, Pa.
Kindred & Taylor, 29 Jackson, Worcester, Mass.
Liberty Brass Works, Baltimore, Md.
Raquette Fdry & Supply Co., Massena, N. Y.
Reeves, Paul S. & Son, 1415 Catherine, Phila., Pa.
Turner Brass Works, Sycamore, Ill.
Wells Chemical Bronze Wks, Worcester, Mass.

## 1531—Castings (Lumen Bearing)

**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)

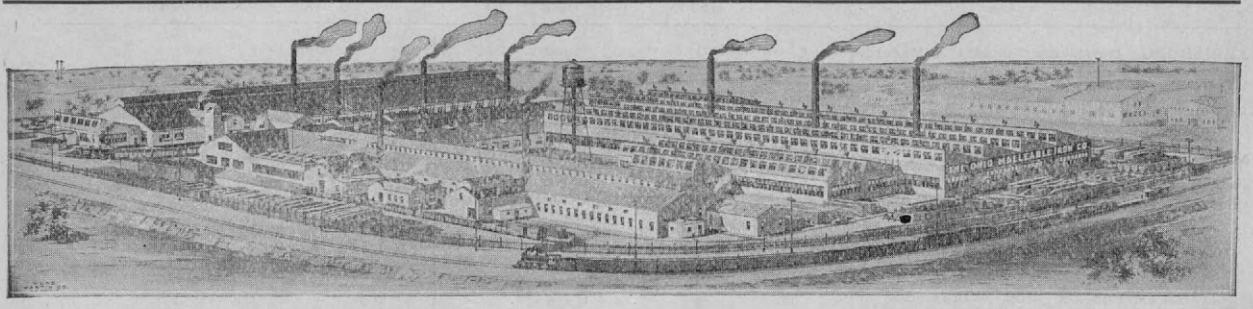
## 1532—Castings (Machinery)

(See also Castings, Malleable Iron; also Castings, Aluminum; Castings, Brass; Castings, Bronze; Castings, Copper; Castings, Grey Iron; Castings, Gun Metal; Castings, Manganese Bronze; Castings, Marine; Castings, Phosphor Bronze; Castings, Semi-Steel; Castings, Steel; also Machinists & Founders)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.** Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**LAWRENCE IRON & STEEL FOUN**dry Co., 400 32nd, Pittsburg, Pa. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car**roll av., Chicago, Ill. (See adv. index, end of book)
**THROPP'S, JNO. E. SONS CO., ft. of** etc.), W 26th & Blue Island av. (See Cleveland, O.)

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

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***The Ohio Malleable Iron Company, Columbus, Ohio***

Capacity, 75 to 100 tons of reliable castings per day

"SEND IT TO OHIO!"

This is the answer for you, for your malleable work, as it has been for many and many a buyer, both large and small, who has sought just what we offer YOU— : :

DEPENDABLE MALLEABLE SERVICE

Prove what this service can mean to you. There is nothing so convincing as a test from your own patterns, so

"SEND IT TO OHIO!"


## 1533–Castings (Malleable Iron)

### CALIFORNIA.

LOS ANGELES—California Lock & Hardware Co.

### CONNECTICUT.

BRANFORD—Hammer & Co. (Hardware Specialties, etc.)
Malleable Iron Fittings Co. (Air Furnace Refined)
BRIDGEPORT—Bridgeport Malleable Iron Co (Refined)
MIDDLETOWN—Wilcox, Crittenden & Co (Small, to Order)
MOUNT CARMEL—Woodruff, Walter W. & Son Co. (Carriage & Miscellaneous)
NAUGATUCK—Naugatuck Malleable Iron Co. (All Kinds)
NEW BRITAIN—Malleable Iron Works (Iron Castings to Order)
Vulcan Iron Works (All Kinds)
NEW HAVEN—Fitch, W. & E. T. Co. (Small to North, O. B. Co. Order)
TERRYVILLE—Terry, Andrew Co. (Keys, Hinges & Small)

### DELAWARE.

WILMINGTON—Wilmington Malleable Iron Co

### ILLINOIS.

BRADLEY—Bradley, David Mfg. Co.
CANTON—Parlin & Orendorff Co.
CHICAGO — Chicago Malleable Castings Co. (Refined Castings), 120th c Centre av
Crane Co. (Gas, Steam & Water Fittings)
Illinois Malleable Iron Co. (Pipe, Fittings & General), 1801 Diversey blvd
Illinois Malleable Iron Co. (Pipe, Fittings, & General), 537 Diversey boul
International Harvester Co. of America
National Malleable Castings Co. (Railroad, etc.), W 26th & Blue Island av. (See Cleveland, O.)
Pratt, Wm. E. Mfg. Co., 91 Lake
Western Steel Car & Fdry Co. (Castings, All Consumed by Company), Old Colony
EAST MOLINE—Union Malleable Iron Co. bldg
EAST ST. LOUIS—Missouri Malleable Iron Co. (Agricultural, Railroad, Stove Range, etc.)
FRANKLIN PARK—Franklin Park Fdry Co.
GALESBURG—Galesburg Malleable Castings Co.
HOOPESTON—Hoopeston Malleable Iron W'ks
JOLIET—Pratt, Wm. E Mfg. Co.
MADISON—American Car & Foundry Co.
MOLINE—Cooper, H. W. Saddlery Hdwe. Mfg. Union Malleable Iron Co. Co.
ROCKFORD—Rockford Malleable Iron Works (Machinery & General)
ST. CHARLES—Faultless Stove Works
Moline Malleable Iron Co. (All Kinds)

### INDIANA.

INDIANAPOLIS—National Malleable Castings Co. (Railroad, etc.) (See Cleveland, O.)
MARION—Marion Malleable Iron Works
MICHIGAN CITY—Haskell & Barker Car Co. (Car & R. R. Castings)
MUNCIE—Whiteley Malleable Castings Co. (Agricultural, Railroad, etc.)
SOUTH BEND—Oliver Chilled Plow Works
TERRE HAUTE—Terre Haute Malleable & Mfg. Co.

### IOWA.

FAIRFIELD—Iowa Malleable Co.
WATERLOO — Waterloo Malleable Iron Co. (Refined Air Furnace)

### KENTUCKY.

PADUCAH—Lack Malleable Iron Co.

### MARYLAND.

BALTIMORE—Kennedy's, P. Foundry & Baltimore Malleable Iron & Steel Casting Co.
Symington, T. H. Co.

### MASSACHUSETTS.

BOSTON—Laconia Car Co. Works (For Electrical Work), 100 Boylston
EASTON—Belcher Malleable Iron Co. (Machinery, Agricultural, etc.)
WORCESTER — Arcade Malleable Iron Co. (Castings of Every Description)

### MICHIGAN.

ALBION—Albion Malleable Iron Co. (Agricultural, Carriages, etc.)
BENTON HARBOR—Benton Harbor Malleable
DETROIT—Buhl Malleable Co. Iron Co.
Michigan Malleable Iron Co. (Car, Agricultural, etc.)
GRAND RAPIDS — Grand Rapids Malleable Works (Railroad, etc.)
MUSKEGON — Standard Malleable Iron Co.
PORT HURON—Port Huron Engine & Thresher Co.

### MINNESOTA.

ST. PAUL—Northern Malleable Iron Co. (Agricultural Implement & Railroad)

### MISSOURI.

ST. LOUIS—American Car & Foundry Co.
St. Louis Car Co. (Car & R. R.)
St. Louis Malleable Casting Co.

### NEW HAMPSHIRE.

LACONIA—Laconia Car Co. Works (For Electrical Work)

### NEW JERSEY.

BLOOMFIELD—American Malleable Co.
NEWARK—Barlow Foundry Co.
Barnett, Oscar, Foundry Co. (Custom Work Light & Medium) 105 Hamilton
Meeker Foundy Co. (Up to 200 lbs.), 95 Clay
PLAINFIELD—Q. M. S. Co.
TRENTON—Trenton Malleable Iron Co. (All Kinds)

### NEW YORK.

ALBANY—Albany Malleable Iron Co.
AUBURN — International Harvester Co. of America (All Kinds), Osborne Plant
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Acme Steel & Malleable Iron Works, 245 Military rd
Pratt & Letchworth Co. (Also Steel Castings)
DEPEW—Gould Coupler Co.
HOOSICK FALLS—Wood, Walter A., Mowing & Reaping Machine Co. (For Own Consumption)
LANCASTER—American Malleable Co.

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Columbia Machine Works & Malleable Iron Co., 269 Chestnut

#### Boroughs of Manhattan & Bronx.

NEW YORK—American Car & Foundry Co., 165 B'way
American Malleable Co., 30 Church
Gould Coupler Co., 345 5th av
Johnson, Isaac G. & Co. (All Kinds), Spuyten Duyvil
Toop, Geo. H., 2572 Park av
**(End of New York City)**

ORISKANY—Oriskany Malleable Iron Co. (Ltd.) (All Kinds, Light & Heavy)
ROCHESTER—Symington, T. H. Co.
SYRACUSE—Frazer & Jones Co. (Saddlery, Agricultural & General), 351 W Fayette
Globe Malleable Iron Co. (Specialty Automobile Castings)
Syracuse Malleable Iron Works
TROY—Troy Malleable Iron Co. (Castings for All Purposes, Specialties R. R. & Electric Motor & Truck)
WESTMORELAND — Westmoreland Malleable Iron Co. (Ltd.) (Agricultural, Carriage, Saddlery & General)

### OHIO.

BARBERTON—Pittsburg Valve & Fittings Co.
CANTON—Canton Malleable Iron Co. (Saddlery & General Castings)
Elbel Co. (Saddlery Hardware & Castings)
CINCINNATI—Havens Malleable Castings Co. (Carriage Hardware & Custom), Knowlton & C. H. & D. R'y
CLEVELAND — **CHISHOLM & MOORE** Mfg. Co. (Light & General, Smooth & Well Annealed Castings), 49th & Lake. (See adv. index, end of book)
Eberhard Mfg. Co. (Saddlery Only)
Fanner Mfg. Co.
Grabler Mfg. Co. (Small)
National Malleable Castings Co. (R R, etc.)
COLUMBUS—Columbus Malleable Castings Co.
**OHIO MALLEABLE IRON CO. (All** Kinds). (See adv. index, end of book)
DAYTON—Dayton Malleable Iron Co. (For Railroad & Car Builders & Agricultural Implements, etc.)
FINDLAY—Findlay Axe & Tool Co.
IRONTON—Ironton Malleable Co. (Railroad, Agricultural, etc.)
MANSFIELD—Ohio Brass Co.

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MARION—American Malleable Castings Co.
SPRINGFIELD—American Seeding Machine Co. (Agricultural Implements Only)
International Harvester Co. (Champion Works)
Springfield Malleable Iron Co. (Small & Railroad Castings)
TIFFIN—Tiffin Malleable Iron & Chain Co.
TOLEDO — National Malleable Castings Co. Railroad, etc.) (See Cleveland, O.)
Superior Iron & Mfg. Co.; Works: Wauseon, Ohio
United States Malleable Iron Co. (Automobile, Carriage, R. R. & Implement)
WARREN—Trumbull Mfg. Co.
WAUSEON—Superior Iron & Mfg. Co. (See Toledo, O.)
ZANESVILLE—Zanesville Malleable Co.

## PENNSYLVANIA.

EASTON—Kuebler Foundries (Inc.)
ERIE—Erie Malleable Iron Co. (All Kinds)
Jarecki Mfg. Co. (Fittings, etc., for Steam, Gas & Water)
Morse Iron Works (Castings & Pipe Fittings)
GREENBURG—Kelly & Jones Co.
McKEES ROCKS—Fort Pitt Malleable Iron Co.
Pressed Steel Car Co. (See Pittsburg, Pa.)
MEADVILLE—Meadville Malleable Iron Co. (Railroad Castings a Specialty from Refined & Furnace Iron)
NEW KENSINGTON—Allegheny Valley Malleable Iron Co.
OIL CITY — **OIL WELL SUPPLY CO.** (See adv. index, end of book)
PHILADELPHIA—Devlin, Thos. Mfg. Co. Carriage, Saddlery, Agricultural, Pipe Fittings, etc.). 3d & Lehigh av
Flagg, Stanley G. & Co. (Pipe Fittings, etc.), Morris bldg
Philadelphia Hardware & Malleable Iron Works (Light), 9th & Jefferson
PITTSBURG—Fort Pitt Malleable Iron Co.
McConway & Torley Co. (R. R. Castings, Mesta Machine Co. etc.)
**OIL WELL SUPPLY CO., 215** Water. (See adv. index, end of book)
Pressed Steel Car Co. (Small & Large R. R. Castings a Specialty)
Pittsburg Malleable Iron Co. (Air Brakes. Fittings, Electric Motor Gears & Miscellaneous), 34th & Smallman
SHARON—National Malleable Castings Co. Railroad, etc.) (See Cleveland, O.)
STOWE—Flagg, Stanley G. & Co. (See Phila.,
YORK—York Mfg. Co. (All Kinds) Pa.)

## RHODE ISLAND.

HILLS GROVE—Rhode Island Malleable Iron Works (All Kinds)

## TENNESSEE.

CHATTANOOGA—Ross-Meehan Foundry Co. (1 oz. to 50,000 lbs.)

## WEST VIRGINIA.

POINT PLEASANT—West Virginia Malleable Iron Co.

## WISCONSIN.

BEAVER DAM—Beaver Dam Malleable Iron Co. (All Kinds)
MILWAUKEE — **CHAIN BELT CO. (See** adv. index, end of book)
Milwaukee Hay Tool Co.
Milwaukee Malleable & Grey Iron Works.
Northwestern Malleable Iron Co. (Agricultural, Car, etc.)
Prescott Malleable Iron Co. (Agricultural Castings a Specialty)
South Side Malleable Castings Co.
Wisconsin Malleable Iron Co.
PORT WASHINGTON—Turner Mfg. Co.
RACINE—Belle City Malleable Iron Co. (Railroad Castings, etc.)
Lakeside Malleable Castings Co. (Agricultural, R. R., etc.)
Racine Malleable & Wrought Iron Co. (Wrought Carriage & Saddlery Hardware & Casting, etc.)
SHEBOYGAN—Globe Foundry & Machine Co.
SOUTH MILWAUKEE—Badger Malleable & Mfg. Co. (For All Purposes)
Stowell Mfg & Foundry Co. (Light Castings for All Purposes)
WAUKESHA—Waukesha Malleable Iron Co. (Farm Implements, Logging Tools, etc.)
WEST ALLIS—West Allis Malleable Iron & Chain Belt Co.

## 1534—Castings (Manganese Bronze)

Ajax Metal Co., Phila., Pa., & Birmingham, Ala.
Blake, Edwin J., Hartford, Conn.
Chapman, J. B. & Co., Springfield, Mass.
Clum & Atkinson (1000 to 3000 lbs.), Rochester, N. Y.
Cramp, W. & Sons Ship & Engine Building Co. (Parsons), Phila., Pa.
Crown Smelting Co., Chester, Pa.
Eynon-Evans Mfg. Co., Phila., Pa.
Federal Brass Works, 225 W Illinois, Chicago, Ill.
Germann Bronze Co., Erie, Pa.
**GRISCOM - SPENCER CO. 90 West.** New York, & ft Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
Keystone Bronze Co., Pittsburg, Pa.
Lehigh Valley Cornice Works, Bethlehem, Pa.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
New London Marine Iron Works, New London, Conn.
North American Smelting Co., 9th & Thompson.
Norwalk Brass Co., Norwalk, Conn.
Pioneer Brass Works, Indianapolis, Ind.
Reeves, Paul S. & Son, Phila., Pa.
Rider-Bagg Co., Springfield, Mass.
Riverside Bronze & Mfg. Co., Buffalo, N. Y.
Rock Island Metal Foundry ("Parson's"), Rock Island, Ill.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Ryder Brass Foundry Co., Bucyrus, O.
Sherwood Brass Works, Detroit, Mich.
Union Iron Works Co., San Francisco, Cal.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
**WHITLOCK COIL PIPE CO. (Fine,** Difficult), Hartford, Conn. (See adv. index, end of book)
Williams, E. A. & Son, Jersey City, N. J.

## 1535—Castings (Manganese Steel)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Blake, Edwin J., Hartford, Conn.
Brylgon Steel Casting Co. (High Manganese or other Special Grades). New Castle, Del
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chicago Steel Foundry Co., Rookery bldg, Chicago, Ill
Crucible Steel Casting Co., Landsdowne, Pa.
Oostburg Steel Foundry Co. (Crucible Manganese), Oostburg, Wis
Prime Steel Co., Milwaukee, Wis.
Smith, G. H. Steel Casting Co., Milwaukee, Wis
St. Louis Steel Foundry, St. Louis, Mo
Taylor Iron & Steel Co., High Bridge, N. J.
**WHITLOCK COIL PIPE CO. (Fine,** Difficult), Hartford, Conn. (See adv. index, end of book)

## 1536— Castings (Marine)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Cramp, Wm. & Sons Ship & Engine Building Co., Beach & Ball, Phila., Pa.
Crown Smelting Co. (Brass), Chester, Pa.
Eastwood Wire Mfg. Co. (Iron, Brass, Bronze etc.), Belleville, N. J.
Germann Bronze Co., Erie, Pa.
Great Lakes Engineering Works, Detroit, Mich.
Norwalk Brass Co. (Brass, Bronze, Aluminum, etc.), Norwalk, Conn.
Reeves, Paul S. & Son, 1413 Catherine, Phila., Pa.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## 1537— Castings (Mining)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)

## 1538—Castings (Monel Metal)

Bayonne Casting Co., Bayonne, N. J.

## 1539—Castings (Nickel Steel)

American Steel Foundries, Commercial Nat'l Bank, Chicago, Ill.
Best Mfg. Co., Pittsburg, Pa.
Bethlehem Steel Co., South Bethlehem, Pa.
Chicago Steel Foundry Co. (Non Corrosive), Rookery bldg, Chicago, Ill.
Crucible Steel Casting Co., Landsdowne, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Massachusetts Steel Casting Co., Everett, Mass.
Mesta Machine Co., Pittsburg, Pa.
Millbury Steel Foundry Co., Millbury, Mass.
New Process Steel Co. (Vanadium), Marshall, Mich.
Taylor Iron & Steel Co., High Bridge, N. J.

## 1540—Castings (Non-Corrosive Metal)

Vanadium Metals Co., Pittsburg, Pa.

## 1540a—Castings (Open-Hearth Steel)

(See firms in Castings, Steel, with the words Open-Hearth following their names)

## 1541—Castings (Ordnance)

American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Midvale Steel Co., Nicetown, Phila., Pa.

## 1542—Castings (Ornamental Iron)

Dow Wire & Iron Works (Architectural, etc.), Louisville, Ky.

## 1543—Castings (Parson's Bronze)

Cramp, Wm. & Sons, Ship & Engine Building Co., Beach & Ball, Phila., Pa.
Morris, I. P. Co., cor Beach & Ball, Phila., Pa
Pioneer Brass Works, Indianapolis, Ind.

## 1544—Castings (Phosphor Bronze)

American Valve & Meter Co., Cincinnati, O.
Anderson, A. H. (Light & Heavy), 218 N Ann, Chicago, Ill.
Attwood Brass Works (Heavy), Grand Rapids, Mich.
Bay State Brass Foundry Co., 155 A st, So. B., Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Blake, Edwin J., Hartford, Conn.
Bridgman Bros. Co., 1426 Wash'n av, Phila., Pa.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Clum & Atkinson (1000 to 3000 lbs.), Rochester, N. Y.
Crown Smelting Co., Chester, Pa.
Damascus Bronze Co., N S, Pittsburg, Pa.
Darling Pump & Mfg. Co., Williamsport, Pa.
Edna Brass Mfg. Co., Cincinnati, O.
Emory, P. P., Mfg. Co., Springfield, Mass.
Eureka Tempered Copper Works, North East, Pa.
Exeter Brass Works, Exeter, N. H.
Eynon-Evans Mfg. Co., 1509 Clearfield, Phila., Pa.
Federal Brass Works, 225 W Illinois, Chicago, Ill.
Fewlass, Leen Brass & Iron Co., Cincinnati, O.
Fries Co., 91 Main, Buffalo, N. Y.
Great Lakes Brass Foundry, Bay City, Mich.
Garwood Bronze & Iron Works, Garwood, N. J.
Germann Bronze Co., Erie, Pa.
Hackett Bros., Detroit, Mich.
Higgins & Co., Holyoke, Mass.
Hoban Brass Foundry Co., Dayton, O.
Imperial Brass Mfg. Co. 444 S Jefferson, Chicago, Ill.
Industrial Pattern & Bronze Co., Cleveland, O.
Johnson Service Co., Milwaukee, Wis.
Keystone Bronze Co., Pittsburg, Pa.
Krouse, Geo. (Heavy), Jersey City, N. J.
Langsenkamp-Wheeler Brass W'ks, 1208 Shelby, Indianapolis, Ind.
Lehigh Valley Cornice Works, Bethlehem, Pa.
Leslie Co. (Inc.), Lyndhurst, N. J.
**LUNKENHEIMER CO., General Offices & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
McHatton Smelting Co., 1500 Washington av, Phila., Pa.
Mansfield Tempered Copper Co., Mansfield, O.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Messmer, Ferd. Mfg. Co., St. Louis, Mo.
Mesta Machine Co., Pittsburg, Pa.
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
New Brunswick Iron Works, 9 Water, New Brunswick, N. J.

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Newell, Fred E., Central Falls, R. I.
North American Smelting Co., 9th & Thompson,
Norwalk Brass Co., Norwalk, Conn. Phila., Pa.
Nute Foundry Co., Cuyhago Falls, O.
Ohio Brass Co. Mansfield, O.
Phosphor Bronze Smelting Co., 2200 Wash'n av, Phila., Pa.
Pioneer Brass Works, Indianapolis, Ind.
Pittsburg Brass Mfg. Co., Penn av & 32d, Pittsburg, Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Reeves, Paul S. & Son, 1413 Catherine, Philadelphia, Pa.
Richardson, Edro, 316 N Holliday, Baltimore.
Rider-Bagg Co., Springfield, Mass. Md.
Riverview Bronze & Mfg. Co., Buffalo, N. Y.
Riverside Metal Co., Riverside, N. J.
Russell Engine Co., Massillon, O.
Ryder Brass Foundry Co., Bucyrus, O.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of
Union Brass Foundry Co., Lowell, Mass. book)
U. S. Bronze Co., 1831 Columbus rd, N W, Cleveland, O.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Ward & Williams, Hancock, Mich.
Watson, Frye & Co., Bath, Me.
**WHITLOCK COIL PIPE CO. (Fine,** Difficult), Hartford, Conn. (See adv. index, end of book)
Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

## 1545—Castings (Puddled Semi-Steel)

**LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 1546—Castings (Railroad)

(See also Castings, Malleable Iron; Castings, Aluminum; Castings, Brass; Castings, Bronze; Castings, Copper; Castings, Grey Iron; Castings, Gun Metal; Castings, Phosphor Bronze; Castings, Steel; Machinists & Founders)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**ST. PAUL FOUNDRY CO., Como av &** Mackubin, St. Paul, Minn. (See adv. index, end of book)

## 1547—Castings (Rock Crusher)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Chester Steel Castings Co., Chester, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Green's Car Wheel Mfg. Co. (Chilled), St. Louis, Mo.
**LAWRENCE IRON & STEEL FOUN**dry Co. (For Blake Crushers), 400 32d, Pittsburg, Pa. (See adv. index, end of book)
Penna. Steel Co. ("Manard" Steel), 1421 Chestnut, Phila., Pa.
Phila. Roll & Machine Co., S 23d & Wash'n av, Philadelphia, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
St. Louis Steel Foundry (Manganese Steel). St. Louis, Mo.
Steele & Condict (Inc.) (Also for Elevators & Screens), Jersey City, N. J.
Taylor Iron & Steel Co., High Bridge, N. J.

## 1548—Castings (Rolling Mill & Furnace)

(This List is Duplicated under Head of "Machinists & Founders")
(See also Machinery, Rolling Mill; also Rolls, Sand, Chilled & Steel)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
American Foundry & Construction Co., Pittsburg, Pa.
American Sheet & Tin Plate Co. Roll & Machine Works, Canton, O.
Best Mfg. Co., Pittsburg, Pa.
Bethlehem Steel Co., South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Braddock Machine & Mfg. Co., Braddock, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Small**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Garrison, A. Foundry Co., Pittsburg, Pa.
Hyde Park Foundry & Machine Co., Hyde Park, Pa.
Keystone Bronze Co., Pittsburg, Pa.
**LAWRENCE IRON & STEEL FOUN**dry Co., 400 32d, Pittsburg, Pa. (See adv. index, end of book)
Mackintosh, Hemphill & Co., Pittsburg, Pa.
Marshall Foundry Co., Pittsburg, Pa.
Massillon Iron & Steel Co., Massillon, O.
Mesta Machine Co., Pittsburg, Pa.
National Brake & Electric Co., Milwaukee, Wis.
National Gear Wheel Foundry, Pittsburg, Pa.
National Roll & Foundry Co., Avonmore, Pa.
Newbold, R. S. & Son Co. (Heavy), Norris-Ohio Machine Co., Middleport, O. town, Pa.
Penna. Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., S 23d & Wash'n av, Philadelphia, Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Reading Iron Co., Reading, Pa.
Rosedale Foundry & Machine Co., N S, Pitts-
Sharon Foundry Co., Wheatland, Pa. burg, Pa.
Sterling Steel Foundry Co., Pittsburg, Pa.
Sterrit, Thomas Foundry Co., Pittsburg, Pa.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Fdry Co., Pittsburg, Pa.
Valley Iron Works, Williamsport, Pa.
Velte Foundry & Machine Co., Pittsburg, Pa.
Weimer Machine Works Co., Lebanon, Pa.
Wheeling Mold & Fdry Co., Wheeling, W. Va.
Youngstown Foundry & Machine Co., Youngstown, O.

## 1549—Castings (Semi-Steel)

Albany Malleable Iron Co., Albany, N. Y.
Allegheny Foundry Co., Warren, Pa.
American Brake Shoe & Foundry Co., Mahwah, N. J., & Chicago, Ill.
American Sheet & Tin Plate Co. Roll & Machine Works, Canton, O.
Ball Engine Co. (Up to 20 Tons), Erie, Pa.
Best Mfg. Co., Pittsburg, Pa.
Bethlehem Foundry & Machine Co., South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY & Machine Co., Birdsboro, Pa.**
Birmingham Iron Foundry (Heavy), Derby, Conn
Brady, Jas. A. Foundry Co., 35th & S Ashland av, Chicago, Ill
**BUFFALO FOUNDRY & MACHINE** Co. (Up to 200 Tons), Buffalo, N. Y. (See adv. index, end of book)
Centre Fdry & Machine Co., Wheeling, W. Va.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dominion Iron Works, Bristol, Va.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Erie Engine Works (Up to 25 Tons), Erie, Pa.
Farrel Foundry & Machine Co. (Heavy), Ansonia, Conn.
Ferguson & Lange Foundry Co., Clybourn av & Willow, Chicago, Ill.
Francis & Nygren Foundry Co. (For Ammonia Castings, Smelting & Acid Kettles, Gears, etc.), 2524 Fillmore, Chicago, Ill.
Harrisonville Pump & Foundry Co., Harrisonville, Mo.
Independent Foundry Co., Portland, Ore.
Kugler & Shane, Baltimore, Md.
Lake Erie Engineering Works (Heavy, Rough & Machined), Buffalo, N. Y.
Lehigh Foundry Co. (Up to 50 Tons), Fullerton, Pa.
Malleable Iron Fittings Co. (Homogenous Metal), Branford, Conn.
Mesta Machine Co., Pittsburg, Pa.
Raquette Fdry & Supply Co., Massena, N. Y.
Rosedale Foundry & Machine Co., N. S., Pitts-
Shriver, T. & Co., Harrison, N. J. burg, Pa.
**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Valley Iron Works, Williamsport, Pa.
Walker Foundry Co., Erie, Pa.
Wilmington Malleable Iron Co., Wilmington,
Wollaston Foundry Co., Wollaston, Mass. Del.
Youngstown Foundry & Machine Co., Youngstown, Ohio.

## 1549a—Castings (Sewer)

(See Covers, Manhole; also Inlets, Sewer)

## 1550—Castings (Sidewalk & Vault Light)

**CANTON FOUNDRY & MACHINE CO.** (Illuminating), Canton, O. (See adv. index, end of book)

## Castings (Steam Fitters')

(See Fittings, Various Kinds)

## 1552— Castings (Steel)

(This List is Duplicated under Head of Machinists & Founders)

### ALABAMA.

BIRMINGHAM—Tennessee Coal, Iron & R. R. Co. (Basic Open Hearth Gears, Rolls, Engine Parts, etc.)

### CALIFORNIA.

SAN FRANCISCO—Columbia Steel Co. (Open Hearth)
Doble, Abner Co. (Basic Open Hearth)
Union Iron Works Co. (Tropenas, for Com-
Western Steel Works pany's Own Use)
STOCKTON—Samson Iron Works (Crucible)

### COLORADO.

DENVER—Colorado Fuel & Iron Co. (Bessemer & Open Hearth, for Company's Own Use)

### CONNECTICUT.

BRANFORD—Malleable Iron Fittings Co. (Low Carbon, Acid Open Hearth & Tropenas)
COLLINSVILLE — Collins Co. (Crucible, All Consumed by the Company)
NEW HAVEN—American Steel & Wire Co. (Acid Open Hearth)

### DELAWARE.

NEW CASTLE—Allan, Edgar American Manganese Steel Co. (Manganese Steel)
Baldt Steel Co. (Acid Open Hearth, up to 50 tons each)
Brylgon Steel Casting Co. (Manganese Steel, Gear Blanks, Motor Frames, Connecting Rods, Crankshafts, Governor
Deemer Steel Casting Co. Arms)

### DISTRICT OF COLUMBIA.

WASHINGTON—Naval Gun Factory, U. S. Naval Yard (Tropenas)

### ILLINOIS.

CHICAGO—American Steel Foundries (Acid Open Hearth & Crucible, Up to Any Weight), Commercial Nat'l Bank bldg
American Steel Foundries (Acid Open Hearth & Crucible up to any Weight) Commercial Nat'l B'k Bldg.
Armor Steel & Foundry Co. (Acid Open Hearth; also Casting by the Gebhard Process), First Nat'l Bank. Works: Indiana Harbor, Ind.
Chicago Steel Foundry Co. (High Manganese & High Carbon Crucible; also Magnetic for Electrical Purposes) Rookery Bldg.
Crane Co. (Soft Zenzes)
Illinois Steel Co. (Bessemer & Open Hearth, for Company's Own Use)
Inland Steel Co. (Open Hearth, up to any Weight, 164 Dearborn; Works: Indiana Harbor, Ind.
Link Belt Co. (Zenzes, all Consumed by the Company)
National Car Coupler Co. (Open Hearth, 1 lb. to 500 lbs.), Monadnock blk
Otis Elevator Co. (Schwartz Steel Castings)

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EAST ST. LOUIS—American Steel Foundries (Crucible, Acid Open Hearth, up to Any Weight). Main Office, Chicago, Ill.
GRANITE CITY—American Steel Foundries (Acid, Open Hearth & Crucible, up to Any Weight). Main Office, Chicago, Ill.
Commonwealth Steel Co. (Basic Open Hearth). Office, St. Louis
MELROSE PARK—National Malleable Castings Co. (See Cleveland, O.)

## INDIANA.

EAST CHICAGO—Hubbard Steel Foundry Co.
INDIANA HARBOR—American Steel Foundries (Acid. Open Hearth, Car, Locomotive & Other Steel Castings), Office, Chicago, Ill.
MONTPELIER—National Steel Casting Co. (Acid & Basic Open Open Hearth Car Couplers, Knuckles & General Castings)
MUNCIE—Whiteley Malleable Castings Co. ("Whiteley's Crocon," for Automobiles, Pneumatic Tools, Gas Engines, etc.)
Whiteley Steel Co. (High Grade, Small)
TERRE HAUTE—Inland Steel Castings Co.

## IOWA.

DAVENPORT—Bettendorf Axle Co. (Basic Open Hearth)
DES MOINES—Des Moines Bridge & Iron Wks.
LONE TREE—Zimmerman Steel Co.
SOUTH BEND—Oliver Chilled Plow Works (Crucible, all Consumed in Their Works)

## MARYLAND.

BALTIMORE — **ELLICOTT MACHINE** Co., Bush & Severn. (See adv. index, end of book)
Kennedy's, P. Foundry & Baltimore Malleable Iron & Steel Casting Co.
Maryland Steel Co., Sparrows Point

## MASSACHUSETTS.

BOSTON—Eastern Steel Casting Co. (Crucible)
EVERETT—Massachusetts Steel Casting Co. (Acid Open Hearth & Tropenas)
HYDE PARK—Hyde Park Steel Casting Co. (Crucible)
LYNN — General Electric Co. (Acid, Open Hearth & Crucible)
MILLBURY—Millbury Steel Foundry Co. (Crucible, 1 to 1000 lbs.)
WEST WAREHAM—Trement Nail Co. (Bessemer)
WORCESTER—Arcade Malleable Iron Co. (All Kinds)

## MICHIGAN.

ADRIAN—Adrian Steel Casting Co. (Crucible Steel for Light Machinery a Specialty)
BAY CITY—Industrial Works (Basic, Open Hearth, for Their Own Use)
DETROIT—Detroit Steel Casting Co. (Robert Bessemer & Acid Open Hearth, up to 20 Tons)
Michigan Steel Casting Co. (Light Crucible, Specialty Automobile Castings)
Monarch Steel Casting Co. (Acid Open Hearth)
HOUGHTON—Carroll Foundry & Machine Co. (Modified Tropenas)
KALAMAZOO—Hill, W. E. & Co.
Reed Mfg. Co. (Crucible, for Automobiles, Machinery, etc.)
Automobiles, Machinery, etc.)
MARSHALL—New Process Steel Co. (Crucible & Annealed)

## MISSOURI.

ST. LOUIS—American Steel Foundries (Acid Open Hearth & Crucible Up to Any Weight), Frisco Bldg., Main Office, Chicago, Ill.
Banner Iron Works
Commonwealth Steel Co. (Basic Open Hearth), 112 N 4th; Works: Granite City, Ill.
Curtis & Co. Mfg. Co. (Manganese, High Carbon, Chrome & Soft Castings of Bessemer & Open Hearth)
St. Louis Steel Foundry (5 to 10,000 lbs.)
Scullin-Gallagher Iron & Sheet Steel Co. (Open Hearth, up to 60,000 lbs.)

## NEW JERSEY.

CHROME—Chrome Steel Works (Acid & Basic Open Hearth & Crucible)
HIGH BRIDGE—Taylor Iron & Steel Co. (Hatfield-Taylor Manganese, Nickel Chrome, etc.; also Armor Piercing Projectiles)
NEWARK—Atha Steel Casting Co. (Special Bessemer, Acid & Basic Open Hearth
Riverside Steel Casting Co. (Crucible, 1 lb
Titan Steel Casting Co. to 1000 lbs.)
RAHWAY—New Jersey Steel Co. (Special Bessemer & Acid Open Hearth)

## NEW YORK.

BUFFALO—Acme Steel & Malleable Iron Wks
**BUFFALO FOUNDRY & MACHINE** Co. (Up to 200 Tons). (See adv. index, end of book)
Niagara Forged Steel Co. (Basic Open Hearth); Works: Depew, N. Y.
Pratt & Letchworth Co. (Acid Open Hearth)
Strong Steel Foundry Co. (Acid Open Hearth, up to 10,000 lbs.)
DEPEW — Gould Coupler Co. (Basic Open Hearth)
Niagara Forged Steel Co. (Basic Open Hearth) (See Buffalo, N. Y.)
LOCKPORT—Drew Steel Foundry (Crucible)

## NEW YORK CITY.

### Boroughs of Manhattan & Bronx.

NEW YORK—American Bridge Co. (Acid Open Hearth), 30 Church
American Bridge Co. (Acid Open Hearth), 30 Church
American Steel Foundries (Acid Open Hearth, Crucible up to Any Weight), Hudson Terminal bldg.
Gould Coupler Co. (Basic Open Hearth), 345 5th av. Works, Depew, N. Y.
Johnson, Isaac G. & Co. (Acid Open Hearth, Tropenas, Steel Castings & Special Electric Metal of High Permeability), Spuyten Duyvil
Milliken Bros. (Inc.) (Basic Open Hearth, for Their Own Use)
Newport News Shipbuilding & Dry Dock Co. (Tropenas), 30 Church. Works, Newport News, Va.
Pennsylvania Steel Co. (Acid Open Hearth & Crucible). 71 B'way; Works: Steelton, Pa. Main Office, Philadelphia, Pa.
SYRACUSE—Frazer & Jones Co. (Saddlery)

## OHIO.

AKRON — Christy Steel Co. (Crucible, for Automobiles & Machinery Parts, etc.)
ALLIANCE—American Steel Foundries (Acid Open Hearth & Crucible, up to any weight), Main Office, Chicago, Ill.
BUCYRUS—Carroll Foundry & Machine Co. (Basic Open Hearth, up to 50,000 lbs.)
CANTON—Shull Steel Castings & Mfg. Co.
United Steel Co. (Acid Open Hearth)
CINCINNATI — **LUNKENHEIMER CO.** (Special Crucible Steel Castings). (See adv. index, end of book)
CLEVELAND—American Steel & Wire Co. (Acid & Basic Open Hearth, for the Company's Own Use)
Cleveland Steel Casting Co. (Acid Open Hearth, Heavy)
Crucible Steel Casting Co. (Steel & Alloyed Steel)
National Malleable Castings Co. (Open Hearth)
Otis Steel Co. (Acid & Basic Open Hearth. from 100 to 75,000 lbs.)
Wellman-Seaver-Morgan Co. (Basic Open Hearth)
West Steel Casting Co. (Tropenas, Small & Medium)
COLUMBUS—Bonney-Floyd Co. (Tropenas & Crucible, Medium & Small)
Buckeye Steel Castings Co. (Open Hearth Steel), Columbus, O.
DAYTON—Dayton Steel Foundry Co. (Crucible)
Joyce-Cridland Co.
LIMA—Ohio Steel Foundry Co. (Acid & Basic Open Hearth)
MARION—Marion Steel Shovel Co. (Robert Bessemer, all Consumed by Company)
MIDDLETOWN — **AMERICAN ROLLING** Mill Co. (Heavy Basic. Open Hearth). (See adv. index, end of book)
PORTSMOUTH—Portsmouth Steel Co. (Open Hearth)
SANDUSKY—Farrell-Cheek Steel Foundry Co. (Small, up to 2000 lbs.)
STEUBENVILLE—La Belle Iron Works (Basic Open Hearth, General Mill Castings)
TOLEDO—Toledo Steel Casting Co.
WELLSVILLE—Menough Foundry Co.

## OREGON.

PORTLAND — Columbia Steel Co. (See San Francisco, Cal.)

## PENNSYLVANIA.

AVONMORE—Keystone Steel Foundry Co. (Acid Open Hearth. 1 lb. to 10 tons)
BIRDSBORO—**BIRDSBORO STEEL** Foundry & Machine Co. (Acid Open Hearth), Birdsboro, Pa.
BRADDOCK—Braddock Machine & Mfg. Co.
Sterling Steel Foundry Co. (Acid Open Hearth)
BRADFORD—General Foundry Co. (Converted, Large & Small)
BURNHAM—Standard Steel Works Co. (See Phila., Pa.)
CARNEGIE—Scott Iron & Steel Co.
CHAMBERSBURG—Chambersburg Engineering Co. (Acid Open Hearth, Heavy)
CHESTER—American Steel Foundries (Acid Open Hearth & Crucible up to any Weight), Main Office, Chicago, Ill.
Chester Steel Castings Co. (Open Hearth, any weight up to 60,000 Pounds). Office, Phila., Pa.
Federal Steel Foundry Co. (Acid Open Hearth for Machinery Engines, Ships, Locomotives, etc.)
Keystone Steel Casting Co. (Crucible & McHaffie Steel up to 2,000 lbs.; Steel Gear Castings a Specialty)
Penn Steel Casting & Machine Co. (Acid Open Hearth & Tropenas, 40 to 80,000 lbs.)
Seaboard Steel Casting Co. (Acid Open Hearth, up to 80,000 lbs.)
COATESVILLE—Lukens Iron & Steel Co. (Open Hearth for Their Own Use)
CORAOPOLIS—Duquesne Steel Foundry Co. (See Pittsburg)
EASTON—Kuebler Foundries (Inc.)
ERIE—National Fdry Co. (Acid Open Hearth, Railroad Machinery & Castings)
FRANKLIN—American Steel Foundries (Acid Open Hearth & Crucible up to any Weight), Main Office Chicago, Ill.
GLASSPORT—Pittsburg Steel Foundry (Acid Open Hearth up to 60,000 lbs.), Office Pittsburg, Pa.
JOHNSTOWN—Cambria Steel Co. (Open Hearth)
Lorain Steel Co. (Acid Open Hearth)
LANCASTER—Carbon Steel Castings Co.
LANSDOWNE—Crucible Steel Casting Co. (Crucible Automobile & Machy. Castings, 1 to 200 lbs.)
LEBANON—Lebanon Steel Casting Co. (Small Crucible)
McKEES ROCKS—Fort Pitt Malleable Iron Co. (Miscellaneous Open Hearth)
Pressed Steel Car Co. (See Pittsburg, Pa.)
NEW BRIGHTON—Damascus Crucible Steel Casting Co. (Crucible)
NEW KENSINGTON—Union Spring & Mfg. Co.
PHILADELPHIA—Chester Steel Castings Co. (Open Hearth, any weight up to 60,000 lbs.), 407 Sansom
Pennsylvania Steel Co. (Acid Open Hearth & Crucible), 1421 Chestnut. Works: Steelton, Pa.
Flagg, Stanley G. & Co., Morris bldg, Phila., Pa.
Midvale Steel Co. (Open Hearth & Crucible for Gun Carriage Mounts, etc.; & Armor Piercing Shot & Shell). Nicetown
Phoenix Iron Co. (Open Hearth), 410 Walnut; Works: Phoenixville, Pa.
Standard Roller Bearing Co. (Crucible), 48th & Lancaster av
Standard Steel Works Co. (Acid Open Works, Burnham, Pa.)
Wharton, Wm. Jr. & Co. (Inc.) (Tropenas Process), 25th & Washington av
PHOENIXVILLE—Phoenix Iron Co. (See Phila., Pa.)
PITTSBURG—**ALLEGHENY STEEL CO.** (Small Basic Open Hearth), Farmers' Bank bldg. (See adv. index. end of book)
American Bridge Co. (Acid & Basic Open Hearth)
American Steel Foundries (Acid Open Hearth & Crucible, up to Any Weight), Main Office, Chicago, Ill.
Carnegie Steel Co. (Basic & Bessemer, for Their Own Use)
Duquesne Steel Foundry Co. (Acid Open Hearth & Tropenas); Works: Kendall Station, Pa.
**FAWCUS MACHINE CO.** (Converter Process), 2820 Smallman. (See adv. index, end of book)

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Garrison, A. Foundry Co.
Jones & Laughlin Steel Co. (Open Hearth)
**LAWRENCE IRON & STEEL** Foundry Co. (Open Hearth), 400 32d, Pittsburg, Pa. (See adv. index, end of book)
**Mackintosh, Hemphill & Co. (Acid Open Hearth)**
**McConway & Torley Co. (Acid Open Hearth)**
**Mesta Machine Co. (Acid Open Hearth).**
**Pittsburg Steel Foundry (Acid & Basic Open Hearth, up to 60,000 lbs.)**
Pressed Steel Car Co. (Acid Open Hearth, Small & Large R. R. Castings); Works: McKees Rocks, Pa.
Reliance Steel Casting Co.
Sterling Steel Foundry Co. (Acid Open Hearth, Rolling Mill, Locomotive & Mining Machinery, etc.), Frick bldg
Union Spring & Mfg. Co.
**Union Steel Casting Co. (Acid Open Hearth)**
**United Engineering & Foundry Co. (Acid** Open Hearth, All Weights)
Velte Foundry & Machine Co. (Modified Tropenas)
**READING—Reading Steel Casting Co. (Tropenas)**
**SHARON—American Steel Foundries (Acid** Open Hearth & Crucible up to Any Weight). Main Office, Chicago, Ill.
National Malleable Castings Co. (Acid & Basic Open Hearth, R. R. Castings & Motor Gear Blanks)
Sharon Foundry Co. (Acid Open Hearth)
SOUTH BETHLEHEM—Bethlehem Steel Co.
STEELTON — Pennsylvania Steel Co. (See Phila., Pa.
VANDERGRIFT—United Engineering & Fdry Co. (See Pittsburg, Pa.)
WHEATLAND—Sharon Foundry Co. (Acid Open Hearth)
WILLIAMSPORT — Sweets Steel Co. (Basic Open Hearth)

## RHODE ISLAND.

**HILLSGROVE—Rhode Island Malleable Iron Works**

## VIRGINIA.

**NEWPORT NEWS—Newport News Ship Building & Dry Dock Co. (Tropenas). Office, New York**

## WEST VIRGINIA.

WHEELING—Wheeling Mold & Foundry Co. (Acid Open Hearth)

## WISCONSIN.

MILWAUKEE— **CHAIN BELT CO. (Crucible.** (See adv. index, end of book)
Crucible Steel Castings Co. (Crucible, up to 1,200 lbs.)
Falk Co. (Acid Open Hearth), ft. 30th
Maynard Steel Foundry Co. (Crucible)
Milwaukee Steel Foundry Co. (Special Converter Steel Castings)
**NATIONAL BRAKE & ELECTRIC** Co. (Crucible & Acid Open Hearth, up to 40,000 lbs.), Larkin & Belleview pl. (See adv. index, end of book)
& Acid Open Hearth up to 40,000 lbs.)
Nortmann-Duffke Foundry Co. (Crucible)
Prime Steel Co. (Crucible & Manganese)
Sivyer Steel Casting Co. (Crucible)
Smith, Geo. H., Steel Casting Co. (Special Converter Steel Castings)
OOSTBURG—Oostburg Steel Foundry Co. (Crucible Manganese)
RACINE—Racine Steel Casting Co.
SOUTH MILWAUKEE—Bucyrus Co. (Basic Open Hearth for Their Own Use)
WEST ALLIS—Gerlinger Steel Casting Co. (Crucible for Auto, Electric Mining Machinery, etc.)

## Castings (Stone Crusher)

(See Castings, Rock Crusher)

## 1553—Castings (Sugar House)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index. end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)

## 1554—Castings (Tubal Bronze)

Reeves, Paul S. & Son, 1415 Catharine Phila., Pa

## 1555—Castings (Vacuum Pan)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index. end of book)

## 1556—Castings (Vanadium Iron)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index end of book)

## 1557—Castings (Vanadium Metal)

Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## 1558—Castings (Vanadium Steel)

(See also firms in Castings, Steel, with the word Vanadium following their names)
**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Crucible Steel Casting Co., Lansdowne, Pa.
Mesta Machine Co., Pittsburg, Pa.
Riverside Steel Casting Co., Newark, N. J.
United Steel Co., Canton, O.

## 1558a—Castings (Water Works)

(See Cast Iron Pipe Mfrs., Gas & Water; also Valves, Gate for Water Mains; also Covers, Manhole)

## 1559—Castings (White Metal)

Bancroft & Co., Drexel bldg. Phila., Pa.
Brighton White Metal Co., New Brighton, Pa.
Capitol Brass Works, Detroit, Mich.
Clum & Atkinson ("Plata," White Brass), Rochester, N. Y
Donovan, P. J. Brass Foundry Co., Bridgeport, Conn.
Franklin, H. H. Mfg. Co., Syracuse, N. Y.
Germann Bronze Co., Erie, Pa.
Hackett Bros., Detroit, Mich.
Krouse, A. L., Bridgeport, Conn.
Kronse, W. E. & Bro., Bridgeport, Conn.
Legler-Eilerman Co., Dayton, O.
**LUMEN BEARING CO. (Die Pressure), Buffalo, N. Y. (See adv. index. end of book)**
Monumental Bronze Co. (Ornamental White Bronze), Bridgeport, Conn.
Ohio Brass Co., Mansfield, Ohio
Pacific Metal Works, San Francisco, Cal.
Pevey Foundry Co. (Inc.), Lowell, Mass.
Pioneer Brass Works. Indianapolis, Ind.
Pittsburg White Metal Co., Pittsburg, Pa.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Reynolds, Gardner W., Meriden, Conn. Pa.
Riverside Metal Co., Riverside, N. J.
Van Duzen, E. W. Co., Cincinnati, O.
Van Wagner, E. B. Mfg. Co., Syracuse, N. Y.
Veeder Mfg. Co., Hartford, Conn.

## 1560—Castings (Zinc)

Acme Brass Foundry Co., Los Angeles, Cal.
Anderson, A. H., 218 N Ann, Chicago, Ill.
Farrell, Edward P., Baltimore, Md.
Gerock Bros. Mfg. Co., St. Louis, Mo.
Liberty Brass Works, Baltimore, Md.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Van Duzen, E. W. Co., Cincinnati, O. Pa.

## Catch Basins & Covers

(See Basins, Catch; also Inlets, Sewer)

## 1561—Catchers (Grass)

American Mfg. Co., Columbus, O.
Caldwell Lawn Mower Co., Newburgh, N. Y.
Enterprise Mfg. Co. of Pa., Phila., Pa.
F. & N. Lawn Mower Co. ("Simplex"), Richmond, Ind.
Hasseries, Carl ("The Leader"), Central & Woodland av, Cleveland, O.
Herschel, R. Mfg. Co., Peoria, Ill.
Krause, R. F. ("Ideal," "Victor"), Zion City, Ill.
Ney Mfg. Co. ("Iron Clad"), Canton, O.
Northwestern Mail Box Co. ("Acme"), St. Louis, Mo.
Philadelphia Lawn Mower Co. ("Philadelphia"), 310 Chestnut, Phila., Pa.
**RICHARDS-WILCOX MFG. CO., 3d &** Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)
Specialty Mfg. Co. ("Leader," "Easy Emptying"), St. Anthony Park, Minn.
Supplee Hardware Co. ("Braun" Penna. Golf), 503 Market, Phila., Pa.
Union Mfg. Co., Columbus, O.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO. ("Diamond"),** Akron, O. (See adv. index & branch offices, end of book)
Worcester Lawn Mower Co. ("Worcester"), Worcester, Mass.

## 1562—Catchers & Retrievers (Trolley)

Central Laboratory Supply Co., Lafayette, Ind.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices. end of book)
**Lord Electric Co. ("Earl"), 213 W 40th, New York**
Milloy Electric Co., Bucyrus, O.
Prentiss, A. L. & Co., White bldg, Buffalo, N. Y.
Ridlon, Frank Co., 251 A, Boston, Mass.
Stearns, E. C. & Co. ("Milloy"), Syracuse, N. Y.
Trolley Supply Co. ("Ideal," "Knutson," "Peerless"), Canton, O.
Universal Trolley Retriever Co., 149 B'way, New York
Wilson Trolley Catcher Co. (Sole U. S. Agents for the "Wilson"), Boston, Mass.
Wilson & Co. (Sole Mfrs. of the "Wilson"), 430 Kent av, Brooklyn, N. Y.

## 1563—Catches (Cupboard, Screen Door, Etc.)

(See also Catches, Door)

Ashtabula Mfg. Co., Ashtabula, O.
Automatic Door Catch Co., 1541 E 57th, Chicago, Ill.
Brass Goods Mfg. Co., 280 Nevins, Brooklyn,
Champion Safety Lock Co., Geneva, O. N. Y.
Ellis Mfg. Co., Milldale, Conn.
Forg, Peter, Somerville, Mass.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Hardware Supply Co. ("Frost's"), Grand Rapids, Mich.
Hunt, Helm, Ferris & Co. ("Star" Cupboard, Screen Door, etc.), Harvard, Ill.
Mallory, Wheeler Co., New Haven, Conn.
Miller, J. W. Co., Lancaster, Pa.
Onward Mfg. Co., Menasha, Wis.
Payson Mfg. Co., 2918 W Jackson blvd. Chicago, Ill.
Peck-Hamre Mfg. Co., Berlin, Wis.
Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven. Conn.
Sharon Hardware Mfg. Co. ("Sharon," All Steel, also for Screen & Storm Doors), Sharon, Pa.
Shelby Spring Hinge Co. (Steel, Brass & Bronze, Polished), Shelby, O.
Taylor & Baggis Foundry Co.. Cleveland, O.
Watrous, E. L. Mfg. Co.. Des Moines, Ia.
Yale & Towne Mfg. Co., 9 Murray, New York

## 1564— Catches (Door)

Automatic Door Catch Co., 1541 E 57th, Chicago, Ill.
Brainerd Mfg. Co., East Rochester, N. Y.
Burgess-Norton Mfg. Co. ("American," "Burnor," Catches, Latches & Locks), Geneva,
Cheney, S. & Son (Barn), Manlius, N. Y. Ill.
Diehl Novelty Co. ("Diehl" Screen Door), Sheboygan, Wis.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Grand Rapids Brass Co., Grand Rapids, Mich.
Lawrence Bros. (Barn), Sterling, Ill.
National Lock Co. (Cabinet), Rockford, Ill.
Onward Mfg. Co. (Automatic), Menasha, Wis.
Peck. Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co. (Barn), Reading, Pa.
**RICHARDS-WILCOX MFG. CO.** ("American," Screen Door & Automatic Door), 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Schofield & Co., Freeport, Ill.
**Spengler Bros. Co. (Door Catches & Stops),** Rockford, Ill.

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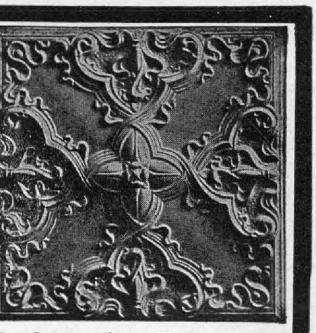


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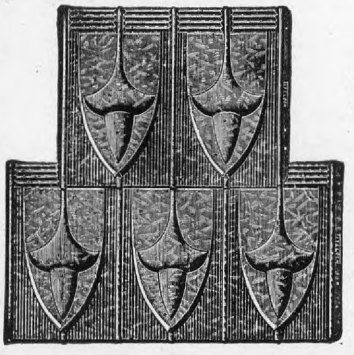
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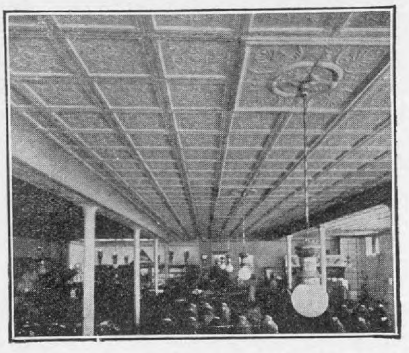
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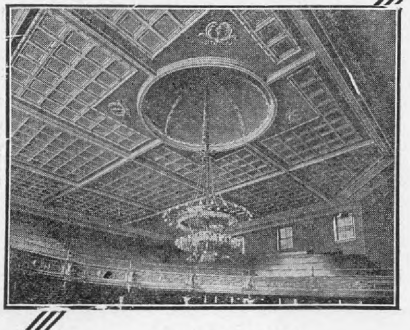
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Watrous, E. L. Mfg. Co. (Automatic), Des Williams, A. C. Co., Ravenna, O. Moines, Ia.
Yale & Towne Mfg. Co. (Screen, etc.), 9 Murray, New York

## 1565– Catches (Elbow)

Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 1566–Catches (End Gate)

Sovereign, C. E. Co., Rockford, Ill.

## Catches (Screen Door)

(See Catches, Cupboard, Screen Door, etc.)

## 1567– Catches (Transom)

Champion Safety Lock Co., Geneva, O.
Ives, H. B. Co., New Haven, Conn.
Payson Mfg. Co., 2918 Jackson blvd, Chicago, Ill.
Peck, Stow & Wilcox, Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 1568–Catches (Vestibule Curtain)

General Railway Supply Co. ("National" Automatic), 204 Dearborn, Chicago, Ill.

## 1569– Catches (Window)

Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 1571– Cathetometers

Gaertner, Wm. & Co., 5349 Lake av, Chicago, Ill.

## 1572– Caustic Soda

American Chemical Co. (Also Powdered), Cincinnati, O.
Arnold-Hoffman & Co., Providence, R. I.
Castner Electrolytic Alkali Co., Niagara Falls, N. Y.
Clark, Fred. G. Co. (For Wholesale Trade Only), Cleveland, O.
Columbia Chemical Co., Barberton, O.
General Chemical Co., 25 Broad, New York
Grasselli Chemical Co., Cleveland, O.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Hooker Electrochemical Co., 40 Wall, New York; Works: Niagara Falls, N. Y.
Mathieson Alkali Works ("Eagle" & "Thistle" Brands, 70, 72, 74 & 76 per cent.), Providence, R. I., & Saltville, Va.
Mechling Bros. Mfg. Co. (Powdered), 939 N 9th, Phila., Pa.
Michigan Alkali Co., Wyandotte, Mich.
Penn Chemical Works (Powdered & Crushed), Phila., Pa.
Penna Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
Tennant's, C. Sons & Co. (Importers), 76 William, New York
Thomsen Chemical Co., Baltimore, Md.
Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.
Wing & Evans, 22 William, New York

## 1573–Causticizing Apparatus

Zaremba Co. (On Pressure System), Buffalo, N. Y.

## 1574–Ceilings ("Gypsite" Tile)

Detroit Fireproofing Tile Co. (Suspended from Wood Joist or "I" Beams), Detroit, Mich.

## 1575–Ceilings (Marbleized Glass)

Denzi & Phillips, 24 Dey, New York
Federal Tile Co. (Glass), 131 W 24th, New York
Mansfield & Co., 158 Chambers, New York

## 1576–Ceilings (Sheet Steel)

Acme Sheet Metal Co., Martins Ferry, O.
American Metal Ceiling Co., 215 Montague, Brooklyn, N. Y.
American Metal Stamping Co. (Light Balancing Selective Diffuser Ceilings), 20 E. Herman, Gtn., Phila., Pa.
**AMERICAN ROLLING MILL CO.,** Middletown, O. (See adv. index & branch offices, end of book)
**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
Brooklyn Metal Ceiling Co., 283-287 Greene av, Brooklyn, N. Y.
**BURTON, W. J. CO., 161 W. Congress.** Detroit, Mich. (See adv. index, end of
Cambridge Roofing Co., Cambridge, O. book)
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO., CANTON, O. (See** adv. index, end of book)
Dickelman Mfg. Co., Forest, O.
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O., & 81 Fulton,** New York. (See adv. index, end of book)
Eller Mfg. Co., Canton, O.
Empire Iron & Steel Co., Niles, O.
Foster, Wm. & Sons Co. (Inc.), Springfield, Ill.
**FRIEDLEY-VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
Indianapolis Corrugating Co., Indianapolis, Ind.
Northwestern Roofing, Cornice & Stamping Works, Minneapolis, Minn.
Kanneberg Roofing & Ceiling Co., Canton, O
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
Kinnear & Gager Mfg. Co., Columbus, O.
**MILWAUKEE ARTISTIC METAL CEILing Co. ("Invisible Joint"), Milwaukee, Wis. (See adv. index & branch offices, end of book)**
**MILWAUKEE CORRUGATING CO. ("Invisible Joint"), Milwaukee, Wis. (See adv. index & branch offices, end of book)**
Moeschl-Edwards Corrugating Co., Covington, Ky.
New York Metal Ceiling Co., 537-541 W 24th, New York
Norman, W. F., Sheet Metal Mfg. Co., Nevada, Mo.
Northrop, Coburn & Dodge Co., 40 Cherry, New York
Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Phila., Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**ST. PAUL ROOFING, CORNICE & ORnament Co., St. Paul, Minn. (See adv.** index. end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Schoedinger, F. O. ("Invincible," "Lock Joint"), Columbus, O.
Sheet Metal Mfg. Co., Niles, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Steel Roofing & Stamping Works (W. F. Hansen, Prop.), Des Moines, Iowa
Sykes Steel Roofing Co., 930 W 19th pl, Chicago, Ill.
Tiffin Art Metal Co., Tiffin, O.
Watson Jas. H. Co. (Inc.), Bradley, Ill.
Wheeling Corrugating Co., Wheeling, W. Va.
Wheeling Metal & Mfg. Co., Wheeling, W. Va.

## 1577–Ceilings (Sheet Steel, Light Diffuser)

American Metal Stamping Co., 20 E Herman, Gtn, Phila., Pa.

## 1578–Cellar Drainers (Automatic)

Braender, Phillip, 315 4th av, New York
Chicago Pump Co. (Electric Cellar Drainer & Bilge Pump), 1055 Fulton, Chicago, Ill.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Dreher, Ernest A., Newark, N. J.
Erwin & Co. ("Perfection"), 56 Dearborn, Chicago, Ill.
Friedenwald Bros., Baltimore, Md.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
Lawler Regulator Co. ("Lawler's"), 473 W B'way, New York
Rolf-Martin Co. ("Martin"), Fort Wayne, Ind.
Sherwood Mfg. Co. (Water Pressure), Buffalo, N. Y
**THOMAS & SMITH (Inc.) ("Economy"),** 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)

## 1579–Cellar Window Sets

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Ives, H. B. Co., New Haven, Conn.
National Mfg. Co., Sterling, Ill.

## 1580– Cellars (Cyclone)

Harry Bros. Co. ("Harry's," Corrugated Galvanized Iron), Newport, Ky., & New Orleans, La.

## 1581– Cells (Electrolytic)

Castner Electrolytic Alkali Co., Niagara Falls, N. Y.
Hooker Electrochemical Co., 90 Wall, New York
National Laundry Machinery Co., Dayton, O.
Niagara Alkali Co. (For Making Caustic & Chlorine), Niagara Falls, N. Y.
Siemens & Holske Co., 50 Church, New York

## 1582–Cells (Leaching or Diffusion Batteries)

Hooker Electrochemical Co. ("Townsend"), 40 Wall, New York
Swenson Evaporator Co., 98 Jackson blvd, Chicago, Ill.
Zaremba Co., Buffalo, N. Y.

## 1583–Celluloid, Fiberloid & Pyralin

Arlington Co. (Pyralin), 725 B'way, New York
Celluloid Co. ("Celluloid"), 30 Washington pl, New York
Fiberloid Co. ("Fiberloid"), Indian Orchard, Mass.

## 1584–Cement Castings (Plain or Ornamental)

**DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)**
**SEIFERT, FRANK A. PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)

## 1585–Cement Concrete Block Facing

**Ohio Marble Co. ("Pulva Alba"), Piqua, O.**

## Cement Dealers

(See Masons' & Builders' Materials)

## 1586– Cement Importers

(See also Cement Importers, Belgian Portland; Cement, Danish Portland; Cement, English Portland; Cement, French Portland; Cement, German Portland; Cement, Keene's; Cement, Imported; Cement, Keene's American.)
Alsen's American Portland Cement Works ("Alsen"), 45 B'way, New York
**American Art Marble Co. ("Victoria," "Keene's"), 609 N American, Phila., Pa.**
Balfour, Guthrie & Co. ("Condor," "K. B. & S.," "Anna" & "Falcon"), San Francisco, Cal.
Carolina Portland Cement Co., Charleston, S. C.
**Ebert,** Morris ("Mannheimer" Portland Cement), 119 S 4th, Phila., Pa.
**FLEMING & CO., 253 B'way, New** York. (See adv. index, end of book)
**Fowler & McVitie,** Galveston, Tex.
**FRENCH, SAMUEL H. & CO. (Meier's** Non-Staining), 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Girvin & Eyre ("Hilton's" English), San Francisco, Cal.
Grace, W. R. & Co. (German & Belgian), San Francisco, Cal.
Haebler & Co., 79 Wall, New York
Hammill & Gillespie, 240 Front, New York
Hiller, Alfred Co., New Orleans, La.
**Kelley Island Lime & Transport Co. ("Lagerdorfer"), Cleveland, O.**
**McBRIDE, C. E. ("Meier's" Non**staining), 302 W Main, Louisville, Ky.
**Marquardt, H. & Co. ("Stettiner S" & "Germania"), 35 S William, New York**
Meng, Anthony & Co. ("Dagger" Brand), 17 S Front, Phila., Pa.
**Miller, Clifford L. & Co. ("Victoria Keene's"),** 110 E 23d, New York
Meyer, Wilson & Co., San Francisco, Cal.
Mosle, H. & Co., Galveston, Tex.
Non-Staining Cement Co. ("Lafarge" Stainless Portland), 156 5th av, New York
Parr, Wm. & Co., Galveston, Tex.
**Southeastern Lime & Cement Co. ("Black Cross"), Charleston, S. C.**

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Spreckles Bros. Commercial Co., Los Angeles, Cal.

Thiele, E. ("Star," "Henry," "Royal Tin," "Royal Crown," "Dyckerhoff," "Heyn," "Hilton" & "B. S. & Co."), 99 John, New York

## 1587—Cement Importers (Belgian Portland)

(See also Cement Importers)

Balfour, Guthrie & Co. ("Giant"), San Francisco, Cal.

Hammill & Gillespie ("Royal Cross"), 240 Front, New York

Meng, Anthony ("Dagger" Brand), 17 S Front, Phila., Pa.

Parr, Wm. & Co., Galveston, Tex.

South Eastern Lime & Cement Co. ("Blackcross"), Charleston, S. C.

Thiele, E. ("Royal Crown"), 99 John, New York

## 1588—Cement Importers (English Portland)

(See also Cement Importers)

Balfour, Guthrie & Co., San Francisco, Cal.

Spreckles, J. D. & Bro. Co. ("Gillingham" & "White Bros."), San Francisco, Cal.

Thiele, E. ("Hilton" & "B. S. Co.'s"), 99 John, New York

## 1588a—Cement Importers (French Portland)

Non-Staining Cement Co. ("Lafarge" Non-Staining), 156 5th av, New York

## 1589—Cement Importers (German Portland)

(See also Cement Importers)

Aisen's American Portland Cement Works ("Aisen"), 45 B'way, New York

Ebert, Morris ("Mannheimer"), 119 S 4th, Phila., Pa.

Hammill & Gillespie ("Bismarck"), 240 Front, New York

Hunkins-Willis Lime & Cement Co., St. Louis, Mo.

Marquardt & Co. ("Stettiner's"), 35 S William, New York

South Eastern Lime & Cement Co., Charleston, S. C.

Thiele, E. (Dyckerhoff, Heyn & Star, Stettin), 99 John, New York

## 1590—Cement Importers (Mannheimer Portland)

Ebert, Morris, 119 S 4th, Phila., Pa.

## 1591— Cement Mfrs.

(All firms under this heading, unless otherwise marked, manufacture "Portland" Cement. One Star (*) indicates Hydraulic or Natural Cement Manufacturers. Two Stars (**) indicate "Rosendale" Cement Manufacturers)

(Trade Names or titles of Identification follow Names of firms in all cases where we have been able to secure them)

(For Cement Dealers See Masons' & Builders' Materials)

### ALABAMA.

BIRMINGHAM—*Carolina Portland Cement Co. (See Charleston, S. C.)

*Southern Cement Co. ("Alabama" & "Magnolia" Brands)

LEEDS — Standard Portland Cement Co. ("Standard" Brand). (See Charleston, S. C.)

MOBILE—Mobile Portland Cement & Coal Co.

RAGLAND—Atlantic & Gulf Portland Cement Co. ("Coosa" Brand)

SPOCARI—Alabama Portland Cement Co. ("Red Diamond" Brand). Works: Demopolis, Ala.

### ARIZONA TERRITORY.

PHOENIX — Arizona Portland Cement Co. ("Arizona" Brand)

### ARKANSAS.

LITTLE ROCK—White Cliffs Portland Cement Co.

### CALIFORNIA.

CEMENT—Pacific Portland Cement Co. ("Golden Gate). (See San Francisco)

COLTON — California Portland Cement Co. ("Colton" Brand. (See Los Angeles)

COWELL—Cowell Portland Cement Co., (See San Francisco, Cal.

DAVENPORT — Santa Cruz Portland Cement Co. (See San Francisco, Cal.

HALLECK—Golden State Portland Cement Co. (See Los Angeles)

LOS ANGELES—California Portland Cement Co. ("Colton" Brand); Works: Colton, Cal.

NAPA JUNCTION—Standard Portland Cement Corp'n ("Standard" Brand). (See San Francisco)

RIVERSIDE—Riverside Portland Cement Co. (See San Francisco, Cal.)

SAN FRANCISCO—Atlantic Portland Cement Co.; Works: Stockertown, Pa.

Cowell Portland Cement Co. ("Mt. Diablo" Brand); Works: Cowell, Cal.

Pacific Portland Cement Co. ("Golden Gate" Brand)

Riverside Portland Cement ("Riverside" Brand). Works: Riverside, Cal

San Juan Portland Cement Co. ("Old Missouri" Brand)

Santa Cruz Portland Cement Co. ("Santa Cruz" Brand). Works: Davenport, Cal.

Standard Portland Cement Corp'n ("Standard" Brand)

SAN JUAN—San Juan Portland Cement Co (See San Francisco)

### COLORADO.

CONCRETE—United States Portland Cement Co. (See Denver, Colo.)

DENVER—Colorado Portland Cement Co. ("Pike's Peak" & "Ideal" Brand), Works, Portland, Colo.

United States Portland Cement Co. ("Concrete" Brand). Works: Concrete, Colo.

NEW CASTLE—New Castle Portland Cement Co. ("New Castle" Brand)

PORTLAND—Colorado Portland Cement Co. (See Denver, Colo.)

### GEORGIA.

ARAGON—Piedmont Portland Cement & Lime Co.

CEMENT—*Howard Hydraulic Cement Co. ("Red Keystone" Brand of Hydraulic)

ROCKMART—Southern States Portland Cement Co. ("Southern States" Brand)

### IDAHO.

LEWISTON—West Coast Portland Cement Co.

### ILLINOIS.

CHICAGO — Chicago Portland Cement Co ("Chicago AA" Brand), Chicago Stock Exch bldg; Works: Oglesby, Ill.

Great Lakes Portland Cement Co. ("Swastica" Brand), Fort Dearborn bldg; Works: Sault Ste. Marie, Mich.

Sterling Portland Cement Co., Rookery bldg. Works: Louisiana, Mo.

Universal Portland Cement Co. ("Universal" Portland), 115 Adams; Works: So. Chicago, Ill.; Buffington, Ind., & Universal, Pa.

DIXON—Sandusky Portland Cement Co. ("Medusa" Brand). (See Sandusky, O.)

LA SALLE—German-American Portland Cement Works ("Owl" Brand)

Marquette Cement Mfg. Co. ("Marquette" Brand)

OGLESBY — Chicago Portland Cement Co. (See Chicago, Ill.)

SOUTH CHICAGO—Universal Portland Cement Co., Main Office, Chicago, Ill.

UTICA—*Utica Hydraulic Cement Co. ("Clark" Brand of Hydraulic)

### INDIANA.

BEDFORD—United States Cement Co. ("Bedford" Portland)

BUFFINGTON — Universal Portland Cement Co., Main Office, Chicago, Ill.

KIMMEL—Art Portland Cement Co. ("Parthenon," White Portland)

LEHMAN—United States Cement Co. (See Bedford, Ind.

MITCHELL—Lehigh Portland Cement Co. ("Lehigh" Brand). (See Allentown, Pa.)

SELLERSBURG—*Louisville Cement Co. (See Louisville, Ky.)

STROH—Wabash Portland Cement Co. ("Wabash" Brand). (See Detroit, Mich.)

SYRACUSE—Sandusky Portland Cement Co. ("Medusa" Brand). (See Sandusky, O.)

### IOWA.

DES MOINES — Iowa Portland Cement Co. ("Hawkeye" Brand). (See Iola, Kans.)

FORT DODGE—Fort Dodge Portland Cement Corp. ("Fort Dodge" Brand)

MASON CITY—Northwestern States Portland Cement Co. ("Northwestern" Brand)

### KANSAS.

ALTOONA—Altoona Portland Cement Co. (See Kansas City, Mo.)

ARKANSAS CITY—Arkansas City Portland Cement Co. (See Wichita, Kans.)

BONNER SPRINGS—Bonner Portland Cement Co. ("Bonner" Brand)

CARLYLE—Lumberman's Portland Cement Co. ("Lumberman's" Brand). (See Kansas City, Mo.

CHANUTE—Ash Grove Lime & Portland Cement Co. ("Ash Grove" Brand). (See Kansas City, Mo.)

FORT SCOTT—*Fort Scott Hydraulic Cement Co. ("Four Star" Brand, Hydraulic) (See Kansas City, Mo.)

*Kansas City & Fort Scott Cement Co. (Hydraulic). (See Kansas City, Mo.)

FREDONIA — Fredonia Portland Cement Co. ("Fredonia" Brand)

HUMBOLDT—Monarch Cement Co. ("Monarch" Brand)

INDEPENDENCE—United Kansas Portland Cement Co. (See Iola)

Western States Portland Cement Co. ("Cowboy" Brand)

IOLA—Iola Portland Cement Co. ("Iola" Brand)

Iowa Portland Cement Co. ("Hawkeye"). Works: Des Moines, Ia.

Middle West Portland Cement Co.

United Kansas Portland Cement Co. ("Sunflower" & "Indian" Brands)

MILDRED — Great Western Portland Cement Co. (See Kansas City, Mo.)

NEODESHA—United Kansas Portland Cement Co. (Iola, Kan.)

WICHITA—Arkansas Portland Cement Co.

YOCEMENTO—United States Portland Cement Co. (See Kansas City, Mo.)

### KENTUCKY.

KOSMOSDALE—Kosmos Portland Cement Co. ("Kosmos" Brand)

LOUISVILLE—*Louisville Cement Co. (Speed "Star" Brand, Hydraulic; "Horseshoe" Brand, of Portland, & "S. S." Brand); Works: Speeds, Ind.; P. O. Sellersburg, Ind.

*Union Cement & Lime Co. ("Black Diamond" & "Anchor" Brands, Hydraulic)

### MAINE.

ROCKLAND—New England Portland Cement Co.

### MARYLAND.

BALTIMORE—Maryland Lime & Cement Co. ("Lehigh," Portland), 421 S Central av

Security Cement & Lime Co. ("Security" Brand); Works: Security, Md.

CUMBERLAND—*Cumberland Hydraulic Cement & Mfg. Co. ("B. & H." Brand, Hydraulic)

SECURITY—Security Cement & Lime Co. (See Baltimore, Md.

UNION BRIDGE—Tidewater Portland Cement Co. (See New York)

### MASSACHUSETTS.

CLAYTON—Berkshire White Portland Cement Co. (See New York City)

### MICHIGAN.

ALPENA—Alpena Portland Cement Co. ("Alpena" Brand)

Huron Portland Cement Co. (See Detroit, Mich.)

BAY CITY—Hecla Company ("Hecla" Brand). (See Detroit, Mich.)

BELLEVUE — Burt Portland Cement Co. ("Burt" Brand)

BRONSON—Chanute Cement & Clay Product Co. ("Bronson" Brand). (See Akron, O.)

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CEMENT CITY—Peninsular Portland Cement Co. ("Peninsular" Brand). (See Jackson)
CHARLEVOIX—Standard Cement & Lime Co. (See Detroit, Mich.)
COLDWATER—Wolverine Portland Cement Co. ("Wolverine" Brand)
DETROIT—Hecla Co. ("Hecla" Brand); Works: Bay City, Mich.
Huron Portland Cement Co. ("Huron" Brand), Works: Alpena, Mich.
Marengo Portland Cement Co. ("Iroquois" Brand)
New Aetna Portland Cement Co. ("Aetna" Brand), Works: Fenton, Mich.
Standard Cement & Lime Co. ("Standard" Brand); Works: Charlevoix, Mich.)
Wabash Portland Cement Co. ("Wabash" Brand). Works: Stroh, Ind.
Wyandotte Portland Cement Co. ("Wyandotte' Brand), Works: Wyandotte, Mich.
ELK RAPIDS—Elk Cement & Lime Co. ("Elk" Brand)
FENTON — Egyptian Portland Cement Co. "Egyptian" Brand)
New Aetna Portland Cement Co. (See Detroit, Mich.)
GRAND RAPIDS—Newaygo Portland Cement Co. ("Newaygo" & "Gibraltar" Brands)
JACKSON—Peninsular Portland Cement Co. ("Peninsular" Brand). Works: Cement City, Mich.
JONESVILLE — Omega Portland Cement Co. ("Omega" Brand), Works: Mosherville, Mich.
MOSHERVILLE—Omega Portland Cement Co. (See Jonesville, Mich.)
NEWAYGO—Newaygo Portland Cement Co. ("Newaygo" & "Gibraltar" Brands). (See Grand Rapids, Mich.)
QUINCY—Wolverine Portland Cement Co. (See Coldwater, Mich.)
SAULT STE. MARIE—Great Lakes Portland Cement Co. (See Chicago, Ill.)
UNION CITY—Peerless Portland Cement Co. ("Peerless" Brand)
WYANDOTTE — Wyandotte Portland Cement Co. ("Wyandotte" Brand). (See Detroit, Mich.)

## MINNESOTA.

MANKATO—*Mankato Cement Works ("Mankato" & "U. S. G." Brands of Hydraulic)

## MISSOURI.

CAPE GIRARDEAU—Cape Girardeau Portland Cement Co. ("Eagle" Brand)
CONTINENTAL—Continental Portland Cement Co. (See St. Louis, Mo.)
HANNIBAL—Atlas Portland Cement Co.; Office, New York City
IATAN—Missouri Portland Cement Co. (See Kansas City, Mo.
KANSAS CITY—Altoona Portland Cement Co., Works: Altoona, Kan.
Ash Grove Lime & Portland Cement Co. ("Ash Grove" Brand), Works: Chanute, Kan.
Dewey Portland Cement Co. ("Dewey" Brand), Works: Dewey, Okla.
Great Western Portland Cement Co. ("G.-W." Brand). Works: Mildred, Kan.
Kansas City Portland Cement Co. ("K. C." Brand)
*Kansas City & Fort Scott Cement Co. ("Double Star" Brand, Hydraulic). Works: Fort Scott, Kan.
Lumberman's Portland Cement Co. ("Lumberman's" Brand). Works: Carlyle, Kan.
Missouri Portland Cement Co. ("Mule" Brand). Works: Iatan, Mo.
United States Portland Cement Co. ("U. S." Brand). Works: Yocemento, Kan.
LOUISIANA—Sterling Portland Cement Co. (See Chicago, Ill.)
ST. LOUIS—Continental Portland Cement Co. ("Continental" Brand)
Maramec Portland Cement & Material Co., Nat'l Bank of Commerce
Union Sand & Material Co. ("Red Ring" & "K. & C." Brands), Liggett bldg

## MONTANA.

GARDINER—Yellowstone Portland Cement Co.
TRIDENT—Three Forks Portland Cement Co. (See Ogden, Utah)

## NEBRASKA.

OMAHA—Nebraska Portland Cement Co ("Nebraska" Brand); Wks: Superior, Neb.
SUPERIOR—Nebraska Portland Cement Co. (See Omaha, Neb.)

## NEW JERSEY.

ALPHA—Alpha Portland Cement Co. ("Alpha" Brand). (See Easton, Pa.)
NEWARK—**Newark Lime & Cement Mfg. Co. ("Newark" & "Rosendale" Brands)
NEW VILLAGE—Edison Portland Cement Co. (See Stewartsville, N. J.)
PHILLIPSBURG—Lily White Cement Co. ("Lily White" Brand). Works: Nazareth, Pa.
STEWARTVILLE—Edison Portland Cement Co. ("Edison" Brand)
VULCANITE—Vulcanite Portland Cement Co. ("Vulcanite" Brand); Main Office, Phila., Pa.

## NEW YORK.

AKRON — *Cummings Cement Co. ("Roman" Asbestic, "Obelisk" Hydraulic & "Storm King" Brands)
ALBANY—*Helderberg Cement Co. ("Helderberg" Brand)
ALSEN — Alsen's American Portland Cement Co. ("Alsen" Brand). (See New York City)
Seaboard Portland Cement Co. (See New York City)
BUFFALO — *Newman's Akron Cement Co. ("Akron Star" Brand, Hydraulic)
CEMENTON — Alpha Portland Cement Co. ("Alpha" Brand). (See Easton, Pa.)
Catskill Cement Co. ("Catskill" & "Trowel" Brands)
GLENS FALLS—Glens Falls Portland Cement Co. ("Iron Clad" Brand)
HOWES CAVE—Helderberg Cement Co. ("Helderberg" Brand). (See Albany, N. Y.)
HUDSON—Atlas Portland Cement Co. ("Atlas"). (See New York City)
Knickerbocker Portland Cement Co.
ITHACA — Cayuga Lake Cement Co. ("Cayuga" Brand)
NEW YORK—Alsen's American Portland Cement Works, 45 B'way
Atlas Portland Cement Co. ("Atlas"), 30 Broad; Works: Coplay, Pa.; Northampton, Pa.; Hudson, N. Y., & Hannibal, Mo.
Berkshire White Portland Cement Co. (White Portland for Decorative Purposes), 81 Fulton; Works: Clayton, Mass.
**Consolidated Rosendale Cement Co. ("Brooklyn Bridge" Brand), 50 Church; Works: Binnewater, N. Y.
**New York Cement Co. ("Superior" Brand of Hydraulic), 52 B'way
Pennsylvania Cement Co. ("Pennsylvania" Brand), 29 B'way; Works: Bath, Pa.
Seaboard Portland Cement Co., 225 5th av. Works: Alsen, N. Y.
Tidewater Portland Cement Co., 115 B'way. Works: Union Bridge, Md.
Virginia Portland Cement Co. ("Old Dominion" Brand), 26 Beaver; Works: Fordwick, Va.
WAYLAND—Wayland Portland Cement Co. ("Wayland" Brand)

## NORTH DAKOTA.

GRAND FORKS—Northern Cement & Plaster Co. ("Pembina" Brand, Portland & "Northern" Brand, Hydraulic)

## OHIO.

AKRON—Chanute Cement & Clay Product Co. ("Bronson" Brand); Works: Bronson, Mich.
BELLEFONTAINE—Buckeye Portland Cement Co. ("Buckeye" Brand), Works: Harper, Ohio
CASTALIA — Castalia-Portland Cement Co. ("Tiger" Brand). (See Pittsburg, Pa.
CINCINNATI—Superior Portland Cement Co. ("Superior"). Works: Superior, O.
CLEVELAND—Diamond Portland Cement Co. ("Diamond" Brand), Works: Middle Branch, O.
Struthers Furnace Co. ("Struthers")
HARPER—Buckeye Portland Cement Co. (See Bellefontaine, O.
IRONTON — Ironton Portland Cement Co. ("Limestone" Brand)
LISBON—*Ohio Cement Co. (Hydraulic)
MIDDLE BRANCH—Diamond Portland Cement Co. ("Diamond" Brand). (See Cleveland, Ohio)
PORTSMOUTH—York Portland Cement Co. ("Setter" Brand)
RUSHSYLVANIA—Union Portland Cement Co. ("Alta" Brand)
SANDUSKY—Peoples Portland Cement Co. (See Chicago, Ill.)
Sandusky Portland Cement Co. ("Medusa" Brand). Works, York, Pa.; Syracuse, Ind., & Dixon, Ill.
STRUTHERS—Struthers Furnace Co. (Struthers Portland). (See Cleveland, O.)
SUPERIOR — Superior Portland Cement Co. ("Superior" Brand). (See Cincinnati, O.)
WELLSTON — Alma Cement Co. ("Alma" Brand)
Lehigh Portland Cement Co. ("Lehigh" Brand). (See Allentown, Pa.)
YOUNGSTOWN—Brier Hill Iron & Coal Co. ("Brier Hill" & "Puzzolan" Brands)

## OKLAHOMA

ADA—Oklahoma Portland Cement Co. ("O. K." Brand)
DEWEY — Dewey Portland Cement Co. ("Dewey" Brand). (See Kansas City, Mo.)
HARTSHORN—Choctaw Portland Cement Co. (See Oklahoma City, Okla.)

## PENNSYLVANIA.

ALLENTOWN—Blanc Stainless Cement Co. ("Blanc," Stainless)
Lehigh Portland Cement Co. ("Lehigh" Brand). Works: Ormand, Pa.; West Coplay, Pa.; Fogelsville, Pa.; New Castle, Pa.; Wellston, O., & Mitchell, Ind.
Penn-Allen Portland Cement Co. ("Penn-Allen" Brand), Works: Nazareth, Pa.
BATH — Bath Portland Cement Co. ("Bath" Brand)
Pennsylvania Cement Co. ("Pennsylvania" Brand). (See New York City)
CEMENTON—Whitehall Portland Cement Co. ("Whitehall" Brand). (See Phila., Pa.)
COPLAY—Atlas Portland Cement Co. ("Atlas" Brand); Office: New York City
Coplay Cement Mfg. Co. ("Saylor" Brand). (See Phila., Pa.)
EASTON—Alpha Portland Cement Co. ("Alpha" Brand); Works: Alpha, N. J.; Cementon, N. Y.; Manheim, W. Va., & Martins Creek, Pa.
Catskill Cement Co. ("Catskill," "Trowel" Brands); Works: Cementon, N. Y.
EGYPT — *American Cement Co. ("Giant," "Egypt" & "Columbia"). (See Phila., Pa.)
MARTINS CREEK — Alpha Portland Cement Co. ("Alpha" Brand). (See Easton, Pa.)
MOLLTOWN — Vindex Portland Cement Co. ("Vindex" Brand)
NAZARETH—Clinchfield Portland Cement Co. ("Clinchfield" Brand); Works: Kingsport, Tenn.
Dexter Portland Cement Co. ("Dexter" Brand)
Nazareth Cement Co. ("Nazareth" Brand)
Penn-Allen Portland Cement Co. ("Penn-Allen" Brand). (See Allentown, Pa.)
*Phoenix Portland Cement Co. ("Clover Leaf," "Sunbridge" & "Phoenix" Brands, of Portland, & "I. X. L." Brand Hydraulic)
NEW CASTLE—Lehigh Portland Cement Co. ("Lehigh Brand). (See Allentown, Pa.)
NORTHAMPTON—Atlas Portland Cement Co. ("Atlas" Brand). (See New York City)
ORMAND—Lehigh Portland Cement Co. (See Allentown, Pa.)
PHILADELPHIA—American Cement Co. ("Giant," "Egypt" & "Columbia" Brands), Penna bldg; Works: Egypt, Pa., & Jordan, N. Y.
Bonneville Portland Cement Co. ("Star" Brand), Land Title bldg; Works: Siegfrieds, Pa.
Coplay Cement Mfg. Co. ("Saylor" Brand), Penna bldg; Works: Coplay, Pa.
*FRENCH, SAMUEL H. & CO. (Sole Agents for Dexter Portland), 4th & Callowhill. (See adv. index, end of book)
Vulcanite Portland Cement Co. ("Vulcanite" Brand), Land Title bldg; Works: Vulcanite, N. J.
Whitehall Portland Cement Co. ("Whitehall" Brand), Land Title bldg; Works: Clementon, Pa.
PITTSBURG — Castalia Portland Cement Co. ("Tiger" Brand), Works: Castalia, O.
SHARON—Stewart Iron Co. (Made from Furnace Slag)
SIEGFRIED—Bonneville Portland Cement Co. ("Star" Brand). (See Phila., Pa.)
Lawrence Cement Co. ("Dragon" Brand)

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STOCKERTOWN—Atlantic Portland Cement Co. (See San Francisco, Cal.)
Northampton Portland Cement Co. ("Northampton" Brand)
UNIVERSAL—Universal Portland Cement Co., Main Office, Chicago, Ill.
WAMPUM — Crescent Portland Cement Co. ("Crescent" Brand)
YORK—Sandusky Portland Cement Co. ("Medusa" Brand). (See Sandusky, O.
YORKTOWN—Jamestown Portland Cement Co.

## SOUTH CAROLINA.

CHARLESTON—Carolina Portland Cement Co. ("Standard" Brand); Works: Leeds, Ala.
Standard Portland Cement Co. ("Standard" Brand), Works: Leeds, Ala.

## SOUTH DAKOTA.

SIOUX FALLS—Dakota Portland Cement Co. ("Dakota" Brand)

## TENNESSEE.

CHATTANOOGA—*Howard Hydraulic Cement Co. ("Red Keystone" Brand). Works: Cement, Ga.
KINGSPORT—Clinchfield Portland Cement Co. (See Nazareth, Pa.)
KNOXVILLE—*Knoxville Cement Works (Hydraulic)
NASHVILLE—*Tennesee Cement & Lime Co. (Hydraulic)
RICHARD CITY—Dixie Portland Cement Co. ("Royal" Brand)

## TEXAS.

CEMENT—San Antonio Portland Cement Co. (See San Antonio, Tex.)
Texas Portland Cement Co. ("Lone Star" Brand)
CEMENTVILLE—San Antonio Portland Cement Co. (See San Antonio, Tex.)
EL PASO—Southwestern Portland Cement Co. ("El Toro" Brand)
SAN ANTONIO—Alamo Cement Co. ("Alamo")
San Antonio Portland Cement Co. ("San Antonio" Brand)

## UTAH.

OGDEN—Ogden Portland Cement Co. ("Ogden" Brand). Works: Bakers Spun, Utah
Three Forks Portland Cement Co. ("Red Devil" Brand); Works: Trident, Mont.
SALT LAKE CITY—Portland Cement Co. (of Utah) ("Red Diamond" Brand)
Union Portland Cement Co. ("Red Devil" Brand)

## VIRGINIA.

FORDWICK — Virginia Portland Cement Co. ("Old Dominion" Brand). (See New York City)
NORFOLK—Norfolk Portland Cement Corp. ("Giant" Brand)

## WASHINGTON.

CONCRETE — Superior Portland Cement Co. (See Seattle, Wash.)
Washington Portland Cement Co. ("Washington" Brand). (See Seattle, Wash.)
SEATTLE — Superior Portland Cement Co. ("Superior" Brand); Works: Baker, Wash.
Washington Portland Cement Co. ("Washington" Brand); Works, Concrete, Wash.
SPOKANE—Acme Portland Cement Co.
Inland Portland Cement Co.

## WEST VIRGINIA.

MANHEIM—Alpha Portland Cement Co. (See Easton, Pa.)

## WISCONSIN.

MILWAUKEE—*Milwaukee Cement Co. ("Key-Stone" Brand, Hydraulic), Plankinton bldg

## 1591a— Cement (Retort)

**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)

## 1592—Cement Stains (Waterproof)

**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## 1593— Cements Asbestos)

Carey, Philip Mfg. Co., Lockland, O.
Chicago Asbestos Mfg. Co., 1909 W 22d pl, Chicago, Ill.
Colebrook, W. H. Sons, Syracuse, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Franklin Mfg. Co., Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co. (Also Magnesia), Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
New York Asbestos Mfg. Co., 80 John, New York
Norristown Magnesia & Asbestos Co., Norristown, Pa.
Oil City Asbestos Co., Oil City, Pa.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
Sall Mountain Asbestos Mfg. Co., 234 Lasalle, Union Fibre Co., Winona, Minn. Chicago, Ill.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 1594— Cements (Asphalt)

Acme Asphalt Roofing Mfg. Co., Jersey City, N. J.
American Asphaltum & Rubber Co., Harvester bldg, Chicago, Ill.
Indian Refining Co., 123 William, New York
New Jersey Asbestos Co., Camden, N. J.
Texas Co. ("Texaco" for Paving), Houston, Tex., & 17 Battery pl, New York
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Warren Bros. Co., Boston, Mass.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 1595— Cements (Belt)

(See also Belt Dressing)

Akron Belting Co., Akron, O.
Bradford Belting Co. ("Monarch"), Cincinnati, Ohio
Burr Oak Belting Co. ("Eternity"), Cincinnati, Ohio
Chicago Belting Co., 125 N Green, Chicago, Ill.
Cook, Barron C., Charlotte, N. C.
Eagle Counter & Leather Co., Cincinnati, O.
Graton & Knight Mfg. Co. ("Royal"), Worcester, Mass.
**HUDSON BELTING CO. ("American;"** Also "Mermaid" Waterproof), 3 Eaton pl, Worcester, Mass. (See adv. index, end of book)
Jewell Belting Co., Hartford, Conn.
Ladew, E. R. (Est. of) ("Hoyt's"), 82 Fulton, New York
Munson, Chas. Belting Co. ("Famous"), 86 Franklin, Chicago, Ill.
New York Leather Belting Co. ("Victor"), 51 Beekman, New York
Nott, W. S. Co. ("Diamond"), Minneapolis, Minn.
Page Belting Co., Concord, N. H.
Raniville, F. Co., Grand Rapids, Mich.
Reed & Duecker ("R. & D."), Memphis, Tenn.
Rhoads, J. E. & Sons ("Klingfast"), 12 N 3d, Phila., Pa.
Russia Cement Co., Gloucester, Mass.
Schieren, Chas. A. & Co., 30 Ferry, New York
Shultz Belting Co., 402 Barton, St. Louis, Mo.
Talismanic Co., North Tonawanda, N. Y.
Trinidad Asphalt Mfg. Co., St. Louis, Mo.

## 1596—Cements (Caen Stone)

Revis, Wm. H. (French), 1123 B'way, New York

## 1597—Cements (Cast Iron Soil Pipe)

Desper, H. A. Mfg. Co. ("Balsago" or for Any Purpose Not Subject to Heat), Worcester, Mass.
**SMOOTH-ON MFG. CO., 572 Communipaw** av, Jersey City, N. J. (See adv. index & branch offices, end of book)

## 1598—Cements (Cast Steel Filler)

(See Cements, Iron & Steel Filler)

## 1599—Cements (Chrome)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTOR-**ies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1600—Cements (Disc Wheel)

Gardner Machine Co. ("Gardner"), Beloit, Wis.

## 1601— Cements (Elastic)

**AMERICAN-GOETZE GASKET &** Packing Co., 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
**DOGGETT, STANLEY, 101 Beekman,** Beekman, New York. (See adv. index, end of book)
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Kuhls, H. B. Fred. (Elastic Trowel), 719 3d av, Brooklyn, N. Y.
Little, R. V., P. O. Box 496, Pittsburg, Pa.
Minwax Co. ("Minwax"), 1123 B'way, New York
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
Purcell, Hycent (Original), Cambridgeport, Mass.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)
**SMOOTH-ON MFG. CO. ("Smooth-On"),** 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book
**U. S. GUTTA PERCHA PAINT CO.** (For Chimneys, Roofs, etc.), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Webster, W. F. Cement Co., Cambridge, Mass.
Wilhelm, A. Co. (Aluminum), Reading, Pa.

## 1602—Cements (Fire Resisting)

**MAURER, HENRY & SON, 420 E 23d,** New York; Penna bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Inside Front Cover)
Howards Co., New Haven, Conn.
Purimachos Works ("Purimachos" Fire & Heat Resisting), 38 Perry, Buffalo, N. Y.

## 1603—Cements (Furnace & Stove)

(See Cements, Asbestos; also Cements, Elastic; also Putty Manufacturers, Stovemakers')
Cambria Paint & Color Co. (Ltd.) ("Hercules"), Johnstown, Pa.
Carey, Philip Mfg. Co. (Asbestos), Lockland, O.
Colebrook, W. H. Sons, Syracuse, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
**DIXON, JOS. CRUCIBLE CO. (For Re-**pairing Stove & Range Linings), Jersey City, N. J. (See adv. index & branch offices, end of book)
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Howards Co., New Haven, Conn.
Oil City Asbestos Co. (Asbestos), Oil City, Pa.
Otley Mfg. Co. ("Eureka" for Jointing), 1742 N Winchester av, Chicago, Ill.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora" Asbestos), 4th st & Reading R. R., Phila., Pa.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)
Stewart, W. H. Mfg. Co., 65 Delevan, Brooklyn, N. Y.
Wainwright, Jno. C. A. (Dry), Spring City, Pa.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)
Wilhelm, A. Co., Reading, Pa.

## 1604— Cements (Gasket)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)

## 1605—Cements (Graphite)

**DIXON, JOS. CRUCIBLE CO. (For Re-**pairing Incandescent Lamps), Jersey City, N. J. (See adv. index & branch offices, end
U. S. Graphite Co., Saginaw, Mich. of book)

## 1606—Cements (Hot Blast Furnace)

Purimachos Works ("Purimachos"), 38 Perry, Buffalo, N. Y.

## Cements (Hydraulic)

(See firms marked with a (*) under head of Cement Manufacturers)

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AND
**GENUINE ROSENDALE CEMENTS**

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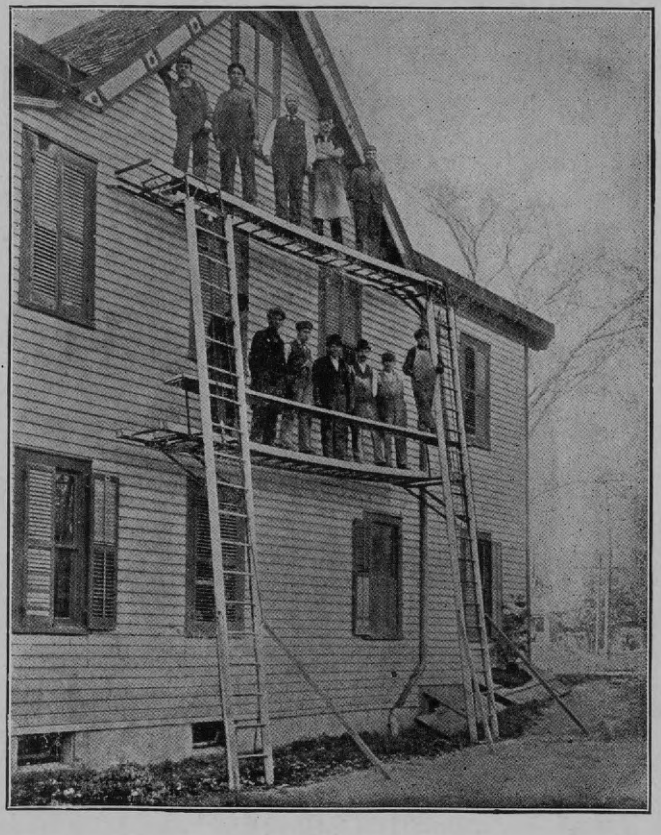



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For Stucco Work they are invaluable, for two of the elevators will support working platforms within easy reach of the building, without touching it. Painters and carpenters will also find them useful.

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The cost of lumber for scaffolding, plus the price of labor for erecting same.

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The smaller platform carries material, tools, etc., within easy reach, so the workmen do not have to stoop every little while, which is the heaviest part of the work, besides taking considerable time.

### *THEY ARE ABSOLUTELY SAFE!*

They lock positively, steel elevator runways more than double strength of ladders, and there is nothing about them to get out of order. With ordinary care they will last a lifetime. Elevators can be run off and folded for shipment.

*IT WILL PAY YOU TO SEND FOR CIRCULAR "H"*

## James L. Taylor Mfg. Co.

**POUGHKEEPSIE, N. Y.**

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## 1607—Cements (Iron & Steel Filler)

Baizley, John Iron Works ("Three Horses" Iron Cement), 514 S Delaware av, Phila.,
Benskin Mfg. Co. (Steel), Canton, O. Pa.
Clark Cast Steel Cement Co. ("Clark" Cast Steel for Blow Holes, etc.), Shelton, Conn.
**DOGGETT, STANLEY ("Fill-It"), 101** Beekman, New York. (See adv. index, end of book)
**JOHNS, H. W.-MANVILLE CO.** ("Ferro"), 100 William, New York. (See adv. index & branch offices, end of book)
Lawrence, W. W. & Co. ("Lawrence" Electric Compound for Blow Holes, etc.), Pittsburg, Pa.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Otley Mfg. Co. ("Eureka" Cast Iron Filler), 1742 N Winchester av, Chicago, Ill.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora" for Blow Holes), 4th st & Reading R. R., Phila., Pa.
Pittsburgh Crushed Steel Co. (Ltd.), Pittsburgh, Pa.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Shanafelt Mfg. Co. ("X-Cel-All"), Canton, O.
Shelton Metallic Filler Co. (For Blow Holes, etc.), Derby, Conn.
**SMOOTH-ON MFG. CO. ("Smooth-On"),** 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
Turner, J. S. Mfg. Co. ("Hold Tight"), Lowell, Mass.
**U. S. GUTTA PERCHA PAINT CO.** ("Rice's" Adamant for Blowholes in Castings, Leaks in Boilers, Piping, etc.), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Wilhelm, A. Co. ("Stick-to"), Reading, Pa.

## 1608—Cements (Keene's American)

Acme Cement Plaster Co., St. Louis, Mo.
Best Bros. Keene Cement Co. (Mfrs.), Medicine Lodge, Kan.
Utah Keene Cement Co., Richfield, Utah

## 1609—Cements (Keene's Imported)

American Art Marble Co. ("Victoria"), 609 N American, Phila., Pa.
**FLEMING & CO., 253 B'way, New** York. (See adv. index, end of book)
King, J. B. & Co., 17 State, New York
Miller, Clifford L. & Co. ("Victoria"), 110 E 23d, New York
Revis, Wm. H., 1123 B'way, New York

## 1610—Cements (Linoleum)

Ferdinand, L. W. & Co. ("20th Century"), Boston, Mass.
Pulsifer, Kingston Co. ("Linogrip"), Boston,
Wild, Joseph & Co., 366 5th av, New York

## 1611—Cements (Locomotive & Boiler Front)

Frazer Paint Co. ("Frazer's" Non-Corrosive), Detroit, Mich.
Otley Mfg. Co. ("Eureka" Joint"), 1742 N Winchester av, Chicago, Ill.
**SMOOTH-ON MFG. CO. ("Smooth-On"),** 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
Wheeler, Asahel Co. ("A-W" Steam Joint), 52 High, Boston, Mass.

## 1611a—Cements (Magnesia)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 1612—Cements (Magnesite, Chrome & Silica)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
**HARBISON-WALKER REFRACTORIES** Co., Farmers' Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1612a—Cements ("Meier's" Non-Staining)

**McBRIDE, C. E., 302 W Main, Louisville, Ky.**

## 1613— Cements (Paving)

Barrett Mfg. Co. (Coal Tar), 17 Battery pl, New York
Texas Co. ("Texaco"), 17 Battery pl, New York

## 1614—Cements (Pipe Joint)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Baker, W. T. ("Atlantic"), Jersey City, N. J.
Callahan, Geo. & Co. ("Old Reliable"), 218 Front, New York
Clark Cast Steel Cement Co. ("Clark" Cast Steel), Shelton, Conn.
Cook & Cokefair ("Peerless"), 306 Pearl, New York
Crane Co. (Est. 1855) (The "Crane"), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crookstom, Wm. H. & Bro., 185 Wooster, New York
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY, 101 Beekman,** Beekman, New York. (See adv. index, end of book)
Eagle Paint & Varnish Co. ("Red Rustless"), North Side, Pittsburg, Pa.
Frazer Paint Co. ("Frazer's" Non-Corrosive Pipe Joint Paste), Detroit, Mich.
Gumbo Cement Co. ("Gumbo"), 32 Market, Hinds & Coon, Boston, Mass. Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO.** ("H.-O."), 100 William, New York. (See adv. index & branch offices, end of book)
Little, R. V., P. O. Box 496, Pittsburg, Pa.
Memphis White Lead Works, Memphis, Tenn.
Otley Mfg. Co. ("Eureka" Steam Joint, etc.) 1742 N Winchester av, Chicago, Ill.
Shelton Metallic Filler Co., Derby, Conn.
**SMOOTH-ON MFG. CO. ("Smooth-On"),** 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
Starbuck, R. N. & Son ("Securo"), Hartford, Conn.
Stearns, F. M. & Co. ("Elasko"), Jamestown, N. Y.
Tripp, Alan H. Co., 260 Clark, Chicago, Ill.
United States Graphite Co. (Mexican Graphite), Saginaw, Mich.
Walch & Wyeth ("Manganesite" Paste), 87 Lake, Chicago, Ill.
Wheeler, Asahel Co. ("A-W" for Steam), 54 High, Boston, Mass.
Whitlam, J. C. Mfg. Co. ("Tyte-Unyte"), Cleveland, O.
Wilhelm, A. Co., Reading, Pa.

## 1614a—Cements (Plumbers')

(See also Cements, Pipe Joint)
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Tripp, Alan H. Co., 260 Clark, Chicago, Ill.
Wilhelm, A. Co., Reading, Pa.

## Cements (Portland)

(See Cement Manufacturers)
(Observe note immediately under the heading relating to Portland Cement & Hydraulic Cement)

## 1615— Cements (Rivet)

Callahan, Geo. & Co. ("Callahan" Old Reliable), 218 Front, New York
Memphis White Lead Works, Memphis, Tenn.
Otley Mfg. Co. ("Eureka"), 1742 N Winchester av, Chicago, Ill
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
Purimachos Works ("Purimachos," Heat Resisting), 38 Perry, Buffalo, N. Y.
**SMOOTH-ON MFG. CO. ("Smooth-On"),** 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
U. S. Graphite Co. (Mexican Graphite), Saginaw, Mich
**U. S. GUTTA PERCHA PAINT CO.** ("Rice's," for Hulls of Iron or Steel Vessels), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

## 1616— Cements (Roofing)

(See also Cements, Asbestos)
Acme Asphalt Roofing Mfg. Co. (Asphalt), 65 Mallory av, Jersey City, N. J.
American Insulating Material Mfg. Co. (Granite Rock Asphalt). Alexandria, Ind.
Barrett Mfg. Co., 17 Battery pl, New York
Bostwick, J. R. & H. J., Clifton Springs, N.Y.
Briggs, John & Co. ("Elastic," Anchor Brand), 47 Purchase, Boston, Mass.
**BURTON, W. J. CO., 161 W Congress,** Detroit, Mich. (See adv. index, end of book)
Callahan, Geo. & Co., 218 Front, New York
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Carey, Philip Mfg. Co. ("Carey's"), Lockland, O.
Clinton Metallic Paint Co., Clinton, N. Y.
Connors, Wm. Paint Mfg. Co. ("American Seal" Elastic Oil), Troy, N. Y.
**DOGGETT, STANLEY, 101 Beekman,** Beekman, New York. (See adv. index, end of book)
Eastern Granite Roofing Co., 17 Battery pl, New York
Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Heppes Co. ("No Tar," Liquid), 45th av & Fillmore, Chicago, Ill.
Hetzel, J. G. (Est. of), Newark, N. J.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Lucas, John & Co., 4th & Race, Phila., Pa.
Maire Paint Co. (All Minerals), Minneapolis, Minn.
Oil City Asbestos Co. (Asbestos), Oil City, Pa.
Patent Vulcanite Roofing Co. ("Vulcanite"), 1288 S Campbell av, Chicago, Ill.
Pecora Paint Co. (S. Bowen's Son, Successor), 4th st & Reading R. R., Phila., Pa.
Purcell, Hycent (Original), 441 Main, Cambridge, Mass.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)
Stewart, W. H. Mfg. Co., 65 Delevan, Brooklyn, N. Y.
Stowell Mfg. Co. (Asphalt), Jersey City, N. J.
Trinidad Asphalt Mfg. Co. ("Epure" Trinidad Asphalt). St. Louis, Mo.
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Victor Mfg. Co. (Elastic), Newburyport, Mass.
Warren Chemical & Mfg. Co., 17 Battery pl, New York
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)
Webster, William F. Cement Co., Cambridge, Mass.
Wilhelm, A. Co. ("Para"), Reading, Pa.
Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

## Cements (Rosendale)

(See firms marked thus ** under head of Cement Manufacturers)

## 1617— Cements (Rubber)

(See also Cements, Tire)
Baker Rubber Cement Co., 48 Lincoln, Boston, Mass.
**BOSTON BELTING CO., 260 Devon-shire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Braintree Rubber Cement Co., S. Braintree, Mass.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Faultless Rubber Co. ("Faultless"), Ashland, Ohio
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Hartford Rubber Works Co., Hartford, Conn.
Lynn Rubber Cement Co., S. Braintree, Mass.
Lyon Rubber Co., Akron, O.
M. & M. Mfg. Co., Akron, O.
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Michelin Tire Co., Milltown, N. J.
Milford Rubber Cement Co., Milford, N. H.
Miller Rubber Mfg. Co., Akron, O.
Morgan & Wright (Inc.) (Brush, Shoe, Steel, etc.), Detroit, Mich.

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Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National Cement Mfg. Co. ("High Pressure," "Red Cross," "Anchor" & "Pioneer"), Toledo, O.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quality Cement Co., Fernwood, Pa.
St. Louis Rubber Cement Co., St. Louis, Mo.
Scituate Mills, Greenbush, Mass.
Wood, Geo. H. Corp., Boston, Mass.

## 1618—Cements (Stainless Portland)

Atlas Portland Cement Co. ("Atlas-White"), 30 Broad, New York
Harrison Waterproof Materials Co., 30 Church, New York
**McBRIDE, C. E. ("Meier's" Non-Staining)**, 302 W Main, Louisville, Ky.
Morse, Frank E. Co. ("Morse's" White Puzzolan), 17 State, New York
Non-Staining Cement Co. ("Lafarge"), 156 5th av, New York

## 1619—Cements (Stone & Emery)

Pittsburg Crushed Steel Co. (Ltd.), Pittsburg, Pa.

## Cements (Stove)

(See Cements, Furnace & Stove; also Putty Manufacturers, Stovemakers')

## 1620— Cements (Tire)

(See also Cements, Rubber)

**DIAMOND RUBBER CO. ("Titan")**, Akron, O. (See adv. index, end of book)
Fisk Rubber Co., Chicopee Falls, Mass.
**GOODRICH, B. F. CO. ("Goodrich")**, Akron, O. (See adv. index & branch offices, end of book)
Hartford Rubber Works ("Hartford"), 691 Park, Hartford, Conn.
M. & M. Mfg. Co. ("M. & M."), Akron, O.
Michelin Tire Co., Milltown, N. J.
National Cement Mfg. Co. ("High Pressure." "Pioneer," "Red Cross," "Anchor," "Auto Rubber" & "Auto Tire"), Toledo, O.
Tingley, Chas. O. & Co., Rahway, N. J.

## 1621—Cements (White, for Mortar)

Higginson Mfg. Co. ("Higginson," for Plastering & Finishing Walls), Newburgh, N. Y.

## 1622—Cements (White Portland)

(See also Cement Manufacturers)

Atlas Portland Cement Co. ("Atlas" Stainless), 30 Broad, New York
Berkshire White Portland Cement Co., 81 Fulton, New York; Works: Clayton, Mass.
Blanc Stainless Cement Co. ("Blanc," Stainless), Allentown, Pa.
Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.

## 1623— Cemetery Railings

**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end of book)
Barnum, E. T. Wire & Iron Works, Detroit, Mich.
Bataille, Achille & Co., 587 Hudson, New York
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**CABARET, PAUL E. & CO. (Bronze),** 120 11th av, New York. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT** Works (Bronze), Detroit, Mich. (See adv. index, end of book)
Dufur & Co., 311 N Howard, Baltimore, Md.
Enterprise Fdry & Fence Co., Indianapolis, Ind.
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.** (Bronze & Ornamental Iron), 20 Exchange pl, New York. Works, Mt. Vernon, N. Y. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 29 E** 17th (Union square), New York & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)
McLean, Jno., 440 Water, New York
Manhattan Brass Co., 334 E 28th, New York
Mast, Foos & Co., Springfield, O.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Peters, F. N. & Bro., Newside, Pa.
**SMITH, F. P. WIRE & IRON WORKS,** 100 Lake, Chicago, Ill. (See adv. index, end
Stewart Iron Works, Covington, Ky. of book)
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)

## 1624— Centering (Steel)

Adjustable Steel Centering Co. ("Adjustable," Steel), Frick bldg., Pittsburg, Pa.
Baltimore Bridge Co. (Collapsible Steel Concrete Forms), Baltimore, Md.
Blaw Collapsible Steel Centering Co. (Collapsible), Westinghouse bldg., Pittsburg, Pa.
Concrete Form & Engine Co. (Collapsible Forms), Detroit, Mich.
Hartford Paving & Construction Co. ("O'Connor" Collapsible), Hartford, Conn.
Jackson, Geo. W., Inc. (Steel Ribs & Lagging for Tunnels, Bridges, Foundations, etc.), 756 W Jackson boul., Chicago, Ill.
Lefebvre-Deslauriers Roofing & Cornice Co. (Corrugated for Floor Slabs), St. Paul, Minn.
Morris, E. T. ("Morris" Collapsible Circles), Elburn, Ill.
**RANSOME CONCRETE MACHINERY CO.,** Dunellen, N. J. (See adv. index & branch offices, end of book)

## 1625— Centers (Bench)

Brown & Sharpe Mfg. Co., Providence, R. I.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Wells, F. E. & Son Co., Greenfield, Mass.

## 1626—Centers (Car Wheel)

American Steel Foundries, 115 Adams, Chicago, Ill.
Commonwealth Steel Co. (Open Hearth Locomotive Driving Wheel Centres), St. Louis, Mo.
Pittsburg Equipment Co. (Open-Hearth Steel Locomotive Wheel Centers & Frames), Pittsburg, Pa.
Pittsburg Steel Foundry (Open Hearth Steel, Locomotive Wheel Centres & Frames), Pittsburg, Pa.
New York Switch & Crossing Co. (Hard Steel), Hoboken, N. J.
Scullin-Gallagher Iron & Steel Co. (Driving Wheel Centres), St. Louis, Mo.
Simplex Railway Appliance Co., Chicago, Ill.
Standard Steel Works, Harrison bldg, Philadelphia, Pa.
Taylor Electric Truck Co. ("Taylor" Malleable), Troy, N. Y.
Taylor Iron & Steel Co., High Bridge, N. J.
Union Steel Casting Co. (Locomotive Driving Wheel Centers & Frames), Pittsburg, Pa.

## 1627— Centers (Index)

Bickford & Washburn (Inc.), Greenfield, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Garvin Machine Co., 137 Varick, New York
Gould & Eberhardt, Newark, N. J.
Kempsmith Mfg. Co., Milwaukee, Wis.
Newton Machine Tool Works (Inc.), 2343 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Stockbridge Machine Co., Worcester, Mass.
Waltham Watch Tool Co., Springfield, Mass.

## 1627a— Centers (Lathe)

**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)

## 1627b—Centers (Locomotive Driving Wheel)

(See Centers, Car Wheel)

## 1628— Centers (Planer)

Cincinnati Planer Co., Cincinnati, O.
Fay & Scott, Dexter, Mass.
Fitchburg Machine Works, Fitchburg, Mass.
Hamilton Machine Tool Co., Hamilton, O.
Hendey Machine Co., Torrington, Conn.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
Woodward & Powell Planer Co., Worcester, Mass.

## 1629—Centers (Sash & Transom)

American Foundry & Mfg. Co., St. Louis, Mo.
Howarth Reversible Sash Center Co. ("Howarth" Reversible Sash Centers), 15 Gilman, Detroit, Mich.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Norwalk Lock Co., South Norwalk, Conn.
Payson Mfg. Co., 2918 W Jackson blvd, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stearns, E. C. Co., Syracuse, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 1630— Centers (Shaper)

Hendey Machine Co., Torrington, Conn.
Pratt & Whitney Co., Hartford, Conn.
Walcott & Wood Machine Tool Co., Jackson, Mich.

## 1631— Centrifugals

(See also Hydro-Extractors)

**American Tool & Machine Co. ("Weston," Belt.** Water & Electrical Driven; also for **Laboratory or Experimental Use), 109 Beach, Boston, Mass.**
Remmers, B. & Sons (Special, for Starch & Chemical Factories), Bourse bldg, Phila., Pa.

## 1632—Centrifugals (Nitrating)

Sittig, J. W. (For Chemical Plants, etc.), 5 Beekman, New York

## 1633— Ceresine

Baker & Adamson Chemical Co., Easton, Pa.
Behrend, F., 54 Front, New York
Smith & Nichols (Imported), 84 South, New
Strahl & Pitsch, 146 Front, New York York

**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

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## 1634— Cesspools

Barber Mfg. Co., Ashtabula, O.
Barnes Mfg. Co., Mansfield, O.
Casey-Hedges Co., Chattanooga, Tenn.
**Central Foundry Co.** (Also Miscellaneous Accessories), 90 West, New York
Estabrook's, R. Sons ("Estabrook" Deep Seal), 204 W 1st, S. B., Boston, Mass.
Glenn Mfg. Co. (Bell Trap, etc.), St. Charles, Ill.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.
Kokomo Brass Works (Brass Threaded), Kokomo, Ind
Kupferle, Jno. C., Foundry Co., St. Louis, McDonald Bros., Columbus, O. Mo.
Madison Foundry Co. ("Acme"), Cleveland, O.
Modern Iron Works (With Ball Traps, etc.), Quincy, Ill.
Northwestern Foundry & Supply Co., Detroit, Mich.
Peck Bros. & Co.. New Haven, Conn.
Rumsey & Co. (Ltd.), Senaca Falls, N. Y.
Sanitary Utilities Co. (Sectional Cement Block), World bldg, New York
Steiger & Kerr Stove & Foundry Co., San Francisco, Cal.
Storch & Scheid ("S. & S." Caulkable), 1102 Wolf, Phila., Pa.
Swett, A. L. Iron Works, Medina, N. Y.
Trenton Brass & Machine Co., Trenton, N. J.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## Chain Belt

(See Belting, Chain or Link)

## 1635—Chain Links & Chain Punched

American Iron & Steel Mfg. Co., Lebanon, Pa.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hendryx, Andrew B. Co. (Chain Links), New Haven, Conn.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Rhode Island Tool Co., Providence, R. I.
Transue & Williams Co. (Drop Forged Chain Links), Alliance, O.
Union Drop Forge Co. (Conveyors Links), 358 W Indiana, Chicago, Ill.
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1635a—Chain (Second Hand)

**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

## 1636— Chain Slings

**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1637— Chain Stays

American Pin Co. (Brass), Waterbury, Conn.
**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.
Detroit Sanitary Supply Co., Detroit, Mich.
DuBois, F. N., 245 9th, New York
Frost Mfg. Co., Kenosha, Wis.
Haines, Jones & Cadbury Co., 1140 Ridge av, Haydenville Co., Haydenville, Mass. Phila., Pa.
Haydenville Co., Haydenville, Mass.
Hoffmann-Billings Mfg. Co., Milwaukee. Wis.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mott, J. L. Iron Works, 118 5th av, New York
Nelson, N. O. Mfg. Co., St. Louis, Mo.
**NEWHALL CHAIN, FORGE & IRON** Co., 90 West, New York
Peck Bros. & Co., New Haven, Conn.
Reid, R. W., 272 Kent av, Brooklyn, N. Y.
Sanitary Co., Cleveland, O.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Waterbury Mfg. Co., Waterbury, Conn.
Wolff, L. Mfg. Co., 601 W. Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1638—Chains (Agricultural)

American Hame & Mfg. Co., New Albany, Ind.
Bridgeport Chain Co., Bridgeport, Conn.
Carr, Jos. B. Co., Troy, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Mundorf, Geo. W., York, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
**WEBSTER MFG. CO., 2410 W 15th.** Chicago, Ill. (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)
Wyatt, Thomas Mfg. Co., Providence, R. I.

## 1639—Chains (Aluminum)

**BRIDGEPORT CHAIN CO., Bridge**port, Conn. (See adv. index, end of book)
Oneida Community Co., Oneida, N. Y.
Smith & Egge Mfg. Co., Bridgeport, Conn.

## 1640—Chains (Anti-Spreader)

**BRIDGEPORT CHAIN CO., Bridge**port, Conn. (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## Chains (Automobile)

(See Chains, Power Transmission)

## 1641— Chains (Awning)

Bridgeport Chain Co., Bridgeport, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1642—Chains (Ball Bearing)

Carter Iron Co. ("The Carter"), Pittsburg, Pa.

## 1643—Chains (Belt Drive, Noiseless)

**MORSE CHAIN CO., Ithaca, N. Y.** (See adv. index & branch offices, end of book)
**PEERLESS-V-BELT CO. ("Peerless-V-Belt"),** Cedar Rapids, Ia. (See adv. index, end of book)

## 1644— Chains (Bicycle)

Baldwin Chain Mfg. Co., Worcester, Mass.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Duckworth Chain & Mfg. Co., Springfield, Mass.
Hall, Chas. E. Co., Buffalo, N. Y.
Lefever Arms Co., Syracuse, N. Y.
**MORSE CHAIN CO., Ithaca, N. Y.** (See adv. index & branch offices, end of book)
Page-Storms Drop Forge Co., Springfield, Mass.

## 1645— Chains (Binder)

(See also Chains, Log)

Bridgeport Chain Co., Bridgeport, Conn.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1646—Chains (Bird Cage)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 1647— Chains (Bit)

Bridgeport Chain Co., Bridgeport, Conn.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1648— Chains (Block)

Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Monongahela Iron & Steel Co., Pittsburg, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
White Hill Chain Works. Fieldsboro, N. J.
Whitney Mfg. Co., Hartford, Conn.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, Woodhouse, Sam'l, Cleveland, O. end of book)

## 1649— Chains (Brake)

Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Round, David & Son, Cleveland, O.
Seneca Chain Co.. Kent, O.
Standard Chain Co., Pittsburg, Pa.
Steel Car Forge Co., Frick bldg, Pittsburg, Pa. Works, Ellwood City, Pa.
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)
Woodhouse, Samuel, Cleveland, O.
Wyatt, Thos. Mfg. Co. (Hand Made), Providence, R. I.

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## 1650– Chains (Brass)

Bliss, A. H. Co. (Small), North Attleboro, Mass.
Bridgeport Chain Co., Bridgeport, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hale Bros., Worcester, Mass.
**HUNGERFORD, U. T. BRASS & COPPER Co.** (Mfrs.' Agents), 497 Pearl, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Smith & Egge Mfg. Co. (Cable), Bridgeport Conn
Steele & Johnson Mfg. Co., Waterbury, Conn
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)
Waterbury Brass Goods Corp., Waterbury, Conn.

## 1651– Chains (Breast)

(See also Chains, Coil)

Covert's Saddlery Works, Interlaken, N. Y.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index end of book)

## 1652– Chains (Bright)

**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index end of book)

## 1653–Chains (Cable & Marine)

Bradlee & Co., 726 Richmond, Phila., Pa.
Carr, Joseph B. Co., Troy, N. Y.
Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co. (Close & Stud Link), Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co. (Closed & Stud Link), Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Monongahela Iron & Steel Co. ("Carter" Ball Bearing), Pittsburg, Pa
**NEWHALL CHAIN, FORGE & IRON CO.** 90 West, New York
Round, David & Son, Cleveland, O.
Seneca Chain Co., Kent, O.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Standard Chain Co., Pittsburg, Pa.
Weimer Chain & Iron Co. (Hand Made), Lebanon, Pa
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index end of book)
Woodhouse, Sam'l, Cleveland, O.
Wyatt, Thos. Mfg. Co. (Hand Made), Providence, R. I.

## 1654–Chains (Car Fender)

Bridgeport Chain Co., Bridgeport, Conn.
**NEWHALL CHAIN, FORGE & IRON** Co., 90 West, New York
Oneida Community (Ltd.), Dept. G (Weldless "American," "Niagara," "Eureka"), Oneida N. Y.
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1655– Chains (Car Haul)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Steel), Hunting** Park av & Reading Ry., Phila., Pa (See adv. index & branch offices, end of book
Stephens-Adamson Mfg. Co. ("S-A" Steel) Aurora, Ill
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)

## 1656– Chains (Coil)

American Hame & Mfg. Co., New Albany, Ind.
Bradlee & Co., 726 Richmond, Phila., Pa.
**BRIDGEPORT CHAIN CO. ("Triumph," "Brown" & "Perfection"),** Bridgeport, Conn. (See adv. index, end of book
Columbus Chain Co. ("Common Proof "B.B.," "B.B.B."), Columbus, O.
Covert Mfg. Co. ("Yankee," Breast), Troy, N. Y.
Covert's Saddlery Works, Interlaken, N. Y.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
**JEFFREY MFG. CO., Columbus, O** (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
McKinnon Chain Co., Buffalo, N. Y.
Monongahela Iron & Steel Co., Pittsburg, Pa.
Mundorf, Geo. W., York, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Round, D. & Son, Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Starr, W. C. & Son, Richmond, Ind.
Steel Car Forge Co. (Proof), Frick bldg., Pittsburg, Pa.
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)
Woodhouse, Sam'l (Sizes 3-16 to 2-in.), Cleveland, O.

## 1657–Chains (Contractors')

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1658– Chains (Conveyor)

(See also Belting, Chain or Link)

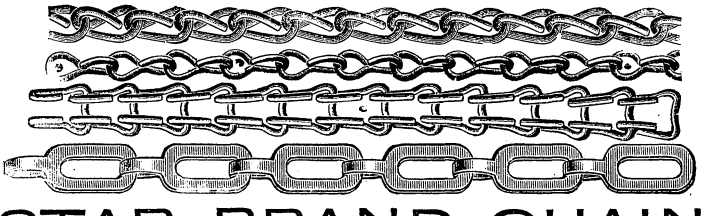
Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Columbus Chain Co. (Long Link Sprocket), Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Hendryx, Andrew B. Co., New Haven, Conn.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Locke Steel Belt Co., Bridgeport, Conn.
Michigan Sprocket Chain Co., Detroit, Mich.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Rivetless Chain & Engineering Co. (Steel), Standard Chain Co., Pittsburg, Pa. Avon, Pa.
Stephens-Adamson Mfg. Co. (Steel), Aurora, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch adv. index, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
Wilmot Engineering Co. ("Keystone" Rivetless), Hazleton, Pa.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1659– Chains (Copper)

Bridgeport Chain Co., Bridgeport, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.

## 1660– Chains (Cow Tie)

**BRIDGEPORT CHAIN CO., Bridgeport, Conn.** (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
McKinnon Chain Co., Buffalo, N. Y.
Mundorf, Geo. W., York, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

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STAIR RODS
BRASS CASTINGS

STAR BRAND
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ESCUTCHEON PINS

GILT NAILS
CUP HOOKS
UPHOLSTERY HARDWARE
COMPOSITION CASTINGS

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## 1661— Chains (Crane)

Bradlee & Co. ("D. B. G."). 726 Richmond, Phila., Pa.
Carr, Joseph B. Co., Troy, N. Y.
Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Nicholson & Crane, Rankin, Pa.
Round, D. & Son (⅛ to 2½ inch), 7625 B'way, S. E., Cleveland, O.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Starr, W. C. & Son (Swedish Iron), Richmond, Ind
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
Weimer Chain & Iron Co. (Hand Made), Lebanon, Pa
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, Woodhouse, Sam'l, Cleveland, O. end of book)
Wyatt, Thomas Mfg. Co., Providence, R. I.

## 1661a—Chains (Cross Tire, Non-Skidding)

**NEWHALL CHAIN, FORGE & IRON** Co. ("Ever Ready" & "Presto"), 90 West, New York
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1662— Chains (Detachable Sprocket Wheel)

**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

## 1663—Chains (Differential Pulley Block)

Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.** 90 West, New York
Round, D. & Son, 7625 B'way, S. E., Cleveland, O.
Standard Chain Co., Pittsburg, Pa.
White Hill Chain Works, Fieldsboro, N. J.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index end of book)
Woodhouse, Samuel, 3515 E 82d, S E. Cleveland, O.

## 1664—Chains (Dog Lead)

**BRIDGEPORT CHAIN CO., Bridgeport,** Conn. (See adv. index, end of book
Hendryx, Andrew B. Co., New Haven, Conn
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless "American," "Niagara," "Eureka"), Oneida N. Y
Phoenix Hardware Mfg. Co., Homer, N. Y.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Wire Goods Co., Worcester, Mass.
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1665—Chains (Double Jointed)

Jenckes, E. Mfg. Co. ("Universal"), Worcester, Mass.

## 1666— Chains (Drag)

**JEFFREY MFG. CO., Columbus, O** (See adv. index & branch offices, end of book)
**NEWHALL CHAIN, FORGE & IRON CO.** 90 West, New York
**WEBSTER MFG. CO., 2410 W 15th** Chicago, Ill. (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index end of book)

## 1667— Chains (Dredge)

Allen, Edgar American Manganese Steel Co. (Manganese Steel). 193 Mich. av, Chicago, Ill.
Bradlee & Co., 726 Richmond, Phila., Pa.
Carr, Jos. B. Co., Troy, N. Y.
Carter Iron Co. ("Carter," Ball Bearing), Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Haskell, Wm. H. Mfg. Co. (Punched Link) Pawtucket, R. I
Hayden-Corbett Chain Co., Columbus, O.
Hoopes & Townsend Co., 1330 Buttonwood Phila., Pa
**JEFFREY MFG. CO., Columbus, O** (See adv. index & branch offices, end of book
Jones & Laughlin Steel Co., Pittsburg, Pa.
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON** Co. (Branded "Warwick" & "Trident"), 90 West, New York
Nicholson & Co., Rankin, Pa.
Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
Round, D. & Son, Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co. ("H. B.," "Ajax"). Pittsburg, Pa.
Taylor, S. G. Chain Co., Chicago, Ill.
Weimer Chain & Iron Co. (Hand Made), Lebanon, Pa
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, Woodhouse, Sam'l, Cleveland, O. end of book)

## 1668— Chains (Elevator)

American Brake Shoe & Foundry Co., Chicago, Ill., & New York
Bridgeport Chain Co., Bridgeport, Conn.
Carter Iron Co., Pittsburg, Pa.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Hoopes & Townsend Co. (Drop Forged), 1330 Buttonwood, Phila., Pa.
**JEFFREY MFG. CO., Columbus, Ohio.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)
Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1669—Chains (Fire Hydrant)

Bridgeport Chain Co., Bridgeport, Conn.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1670— Chains (Furnace)

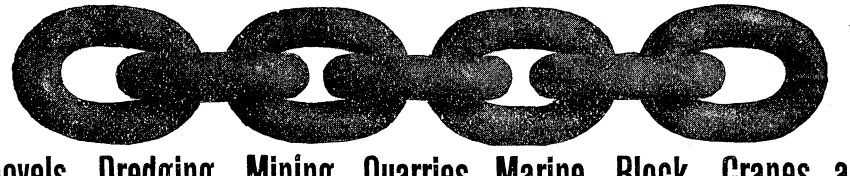
Bridgeport Chain Co., Bridgeport, Conn.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1671—Chains (Galvanized Pump)

Bridgeport Chain Co., Bridgeport, Conn.
Cleveland Galvanizing Wks Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Niagara Falls Metal Stamping Works, Niagara Falls, N. Y.
Oneida Community Co., Oneida, N. Y.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton, & Roebling, N. J. (See adv. index & branch offices, end of book)
Schriver, O. P. & Co. ("I. X. L."), 621 Pearl, Cincinnati, O.
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
Union Mfg. Co., New Britain, Conn.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)


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## 1672—Chains (Gear Link Drive)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Union Malleable Iron Co. ("Heald's" Patent), E. Moline, Ill.

## 1673— Chains (Halter)

Bridgeport Chain Co., Bridgeport, Conn.
Columbus Chain Co., Columbus, O.
Covert Mfg. Co., Troy, N. Y.
Covert's Saddlery Works, Interlaken, N. Y.
McKinnon Chain Co., Buffalo, N. Y.
Mundorf, Geo. W., York, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.**, 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Seneca Chain Co., Kent, O.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Standard Chain Co., Pittsburg, Pa.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1674— Chains (Hammock)

Bridgeport Chain Co., Bridgeport, Conn.
Niagara Falls Metal Stamping Works, Niagara Falls, N. Y.
Oneida Community Co., Oneida, N. Y.

## 1675— Chains (Harness)

American Hame & Mfg. Co., New Albany, Ind.
Bridgeport Chain Co., Bridgeport, Conn.
Columbus Chain Co., Columbus, O.
Hendryx, Andrew B. Co., New Haven, Conn.
**NEWHALL CHAIN, FORGE & IRON CO.**, 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works (Harness Chain Sets), Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.) (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Seneca Chain Co. (All Kinds), Kent, O.
Starr, W. C. & Son, Richmond, Ind.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1676—Chains (Hitching or Mine)

Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.**, 90 West, New York
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (Se eadv. index, end of book)

## 1677— Chains (Hog)

**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Pittsburgh Rivet Co., Pittsburgh, Pa.
Sheppard, S. C., Louisville, Ky.
Wendt, Albert H., Cincinnati, O.

## 1678—Chains (Hog Scraper)

**LINK BELT COMPANY (Steel), Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

## 1679— Chains (Hoist)

Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.** (Branded "Warwick" & "Trident"), 90 West, New York
**RYERSON, JOSEPH T. & SON, 255** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Seneca Chain Co., Kent, O.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1680— Chains (Howe Bull)

Hayden-Corbett Chain Co., Columbus, O.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**WOODHOUSE, J. & T. CHAIN WKS.**, Trenton, N. J. (See adv. index, end of book)

## 1681—Chains (Ice Elevator)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, Ohio.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Steel), Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Smith, Thos. & Co., Worcester, Mass.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 1682— Chains (Jack)

(See also Chains, Safety)
Bliss, E. C. Mfg. Co., Providence, R. I.
Corbin Screw Corporation (Iron & Brass, Single or Double), New Britain, Conn.
Hale Bros., Worcester, Mass.
Hungerford, U. T. Brass & Copper Co. (Brass & Iron), 497 Pearl, New York
**JEFFREY MFG. CO., Columbus, Ohio.** (See adv. index & branch offices, end of book)
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co. (Brass & Iron), Waterbury, Conn.
Smith & Egge Mfg. Co. (Brass & Iron), Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
**TURNER & SEYMOUR MFG. CO., Torrington,** Conn. (See adv. index, end of book)
Waterbury Brass Goods Corp., Waterbury, Conn.
Wire Goods Co., Worcester, Mass.
Wire Hardware Co., 1824 Besly court, Chicago, Ill.

## 1683— Chains (Jockey)

**BRIDGEPORT CHAIN CO., Bridgeport,** Conn. (See adv. index, end of book)
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## Chains (Kennel)

(See Chains, Dog Lead)

## 1684— Chains (Key)

Acme Mfg. Co., Waterbury, Conn.
Aluminum Goods Mfg. Co., Manitowoc, Wis.
**BRIDGEPORT CHAIN CO., Bridgeport,** Conn. (See adv. index, end of book)
Corbin Screw Corporation, New Britain, Conn.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community Co., Oneida, N. Y.
Phoenix Hardware Mfg. Co. (Brass & Nickel Plated), Homer, N. Y.
Smith & Egge Mfg. Co., Bridgeport, Conn.

## 1685— Chains (Ladder)

Corbin Screw Corporation, New Britain, Conn.

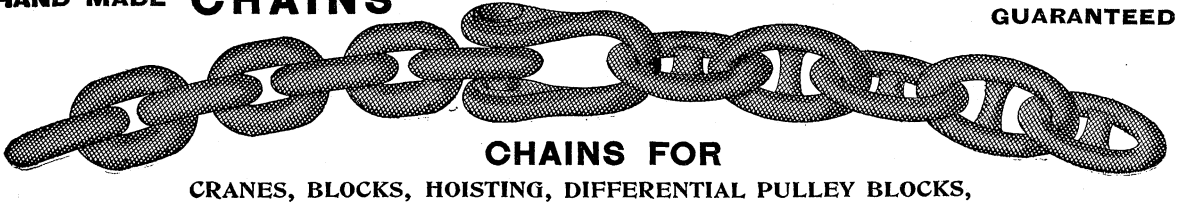
## 1686—Chains (Laminated Hoisting)

Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.

## 1687— Chains (Log)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Hame & Mfg. Co., New Albany, Ind.
Carr, Jos. B. Co., Troy, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Columbus Chain Co., Columbus, O.
Diamond Iron Works (Log & Cable Haul Up), Minneapolis, Minn.
Hayden-Corbett Chain Co. (Ring & Hook), Columbus, O.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
**JEFFREY MFG. CO., Columbus, Ohio.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.


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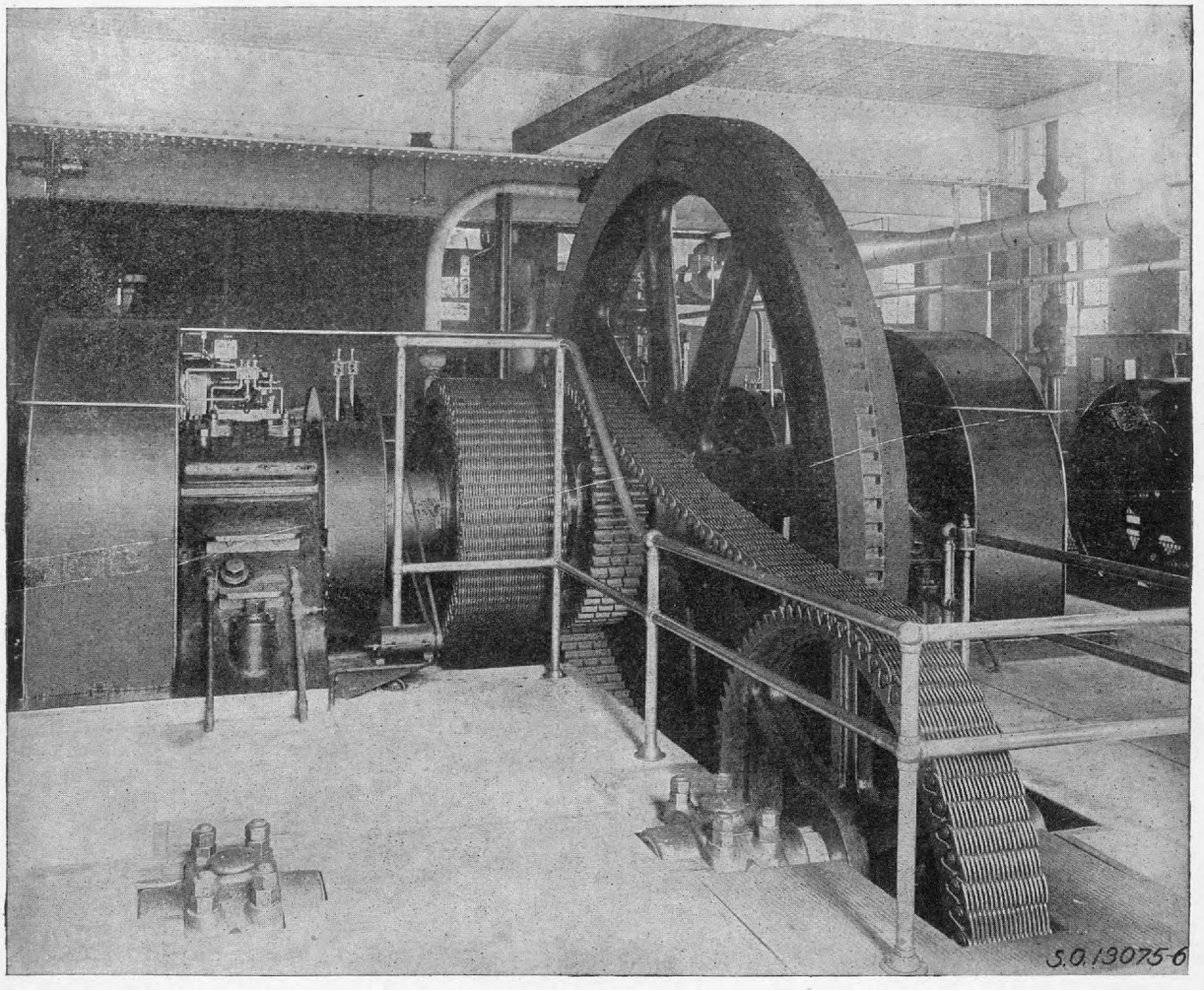
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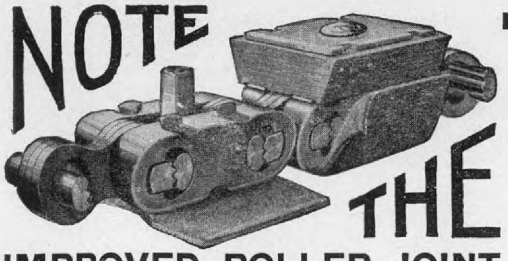
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Speed: 1450' per minute.

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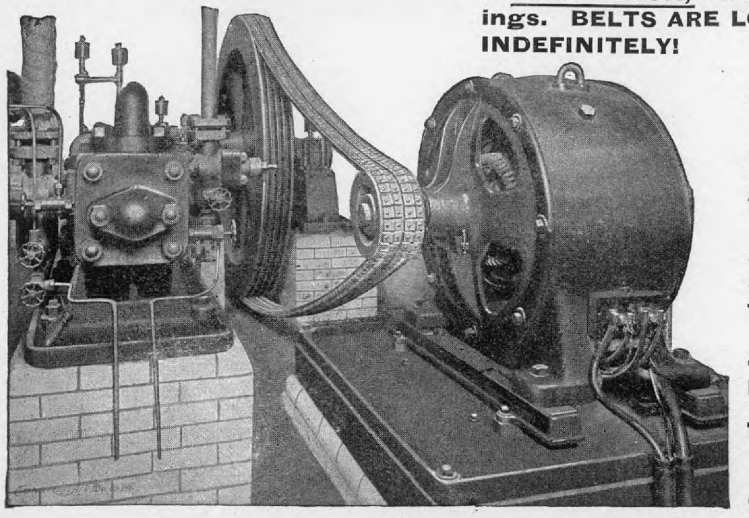
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**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
McKinnon Chain Co., Buffalo, N. Y.
Michigan Sprocket Chain Co., Detroit, Mich.
Mundorf, Geo. W., York, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Nicholson & Co., Rankin, Pa.
Round, David & Son, 7625 B'way, S. E., Cleveland, O.
Seneca Chain Co., Kent, O.
Starr, W. C. & Son, Richmond, Ind.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)
Woodhouse, Samuel, Cleveland, O.

## 1688– Chains (Machinery)

Bliss, E. C. Mfg. Co., Providence, R. I.
Bridgeport Chain Co., Bridgeport, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
Whitney Mfg. Co., Hartford, Conn.
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1689– Chains (Marine)

**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1689a– Chains ("Maximum" Silent Running)

**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

## 1690–Chains (Mining Machine)

Prox, Frank Co. (Hardened Steel), Terre Haute, Ind.

## 1691–Chains ("Morse," Silent Running)

**MORSE CHAIN CO., Ithaca, N. Y.** (See adv. index & branch offices, end of book)

## 1692– Chains (Padlock)

Bridgeport Chain Co., Bridgeport, Conn.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1693– Chains (Picture)

**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 1694–Chains (Pipe Hanger)

Bridgeport Chain Co., Bridgeport, Conn.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1695–Chains (Plumbers')

(See also Chains, Jack)

Acme Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 253 B'way, New York
**BRIDGEPORT CHAIN CO., Bridgeport,** Conn. (See adv. index, end of book)
Corbin Screw Corporation, New Britain, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Glauber, M. & Co., 1 Christopher, New York
Hendryx, Andrew B. Co., New Haven, Conn.
Hungerford, U. T. Brass & Copper Co. (Brass & Nickel Plated), 497 Pearl, New York
Jenckes, E. Mfg. Co. ("Universal" Double Jointed), Worcester, Mass.
Oneida Community (Ltd.), Oneida, N. Y.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.
Wire Goods Co., Worcester, Mass.
Zogg, Nicholas, 472 E 143d, New York

## 1696–Chains (Porch Swing)

Bridgeport Chain Co., Bridgeport, Conn.
Columbus Chain Co., Columbus, O.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1697– Chains (Pot)

National Mfg. Co., Worcester, Mass.
Wire Goods Co. ("King's-2-Ring"), Worcester, Mass.
Wire Hardware Co., 1824 Besly court, Chicago, Ill.
Woods-Sherwood Co. ("Sherwood's"), Lowell, Mass.

## 1698–Chains (Power Transmission)

Baldwin Chain & Mfg. Co., Worcester, Mass.
**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Dodge Mfg. Co., Mishawaka, Ind.
Duckworth Chain & Mfg. Co., Springfield, Mass.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Maximum** Silent"), Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Sprocket Chain Co. (Riveted Drive), Detroit, Mich.
Miller, Charles E. ("Brampton's" Imported), 97 Reade, New York
**MORSE CHAIN CO. ("Morse" High** Speed, Silent Running), Ithaca, N. Y. (See adv. index & branch offices, end of book)
**NEWHALL CHAIN, FORGE & IRON** Co. (Automobile), 90 West, New York
**PEERLESS-V-BELT CO. ("Peerless,"** Noiseless High Speed Chain Drive), Cedar Rapids, Ia. (See adv. index, end of book)
Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Whitney Mfg. Co., Hartford, Conn.

## Chains (Pump)

(See Chairs, Galvanized Pump)

## 1699– Chains (Rafting)

Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Seneca Chain Co., Kent, O.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1700– Chains (Railroad)

Bridgeport Chain Co., Bridgeport, Conn.
Carr, Jos. B. Co., Troy, N. Y.
Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Enterprise Chain Works, Trenton, N. J.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
O'Leary, Arthur J. & Sons Co. (Crossing & Switch), 644 W Lake, Chicago, Ill.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 319 Indiana, Chicago, Ill.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index
Woodhouse, Sam'l, Cleveland, O. end of book)
Wyatt, Thomas Mfg. Co., Providence, R. I.

## Chains (Roller)

(See Chains, Steel Bushed Roller)

## 1701– Chains (Safety)

(See also Chains, Jack; also Chains, Plumbers')
Acme Mfg. Co., Waterbury, Conn.
Bridgeport Chain Co., Bridgeport, Conn.
Columbus Chain Co., Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
Hayden-Corbett Chain Co., Columbus, O.
Hendryx, Andrew B. Co., New Haven, Conn.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Steel Car Forge Co., Pittsburg, Pa.; Works: Elwood City, Pa.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
Wire Goods Co., Worcester, Mass.

## 1702– Chains (Sash)

Acme Mfg. Co., Waterbury, Conn.
Atlantic Co., 26 Rodney, Brooklyn, N. Y.
Bridgeport Chain Co., Bridgeport, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
**HUNGERFORD, U. T. BRASS & COP-** per Co. (Bronze), 497 Pearl, New York
Jenckes, E. Mfg. Co. ("Universal" Double Jointed), Worcester, Mass.
Morton, Thomas (Bronze & Steel Cable), 183 Lafayette, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Parker Wire Goods Co. ("Eureka"), Worcester, Mass.
Phoenix Hardware Mfg. Co. ("Victor"), Homer, N. Y.
Pullman Mfg. Co., Rochester, N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Wire Goods Co., Worcester, Mass.
Zogg, Nicholas ("Standard), 472 E 143d, New York

## 1703– Chains (Sign)

Bridgeport Chain Co., Bridgeport, Conn.
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

## 1703a– Chains (Sling)

**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1704– Chains (Spreader)

Bridgeport Chain Co., Bridgeport, Conn.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

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## 1705—Chains (Sprocket Wheel)

**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Dodge Mfg. Co., Mishawaka, Ind.
Ewart Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
Hendryx, Andrew B. Co., New Haven, Conn.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Link Chain Co. ("Arrow" Detachable), Williamsport, Pa.
Locke Steel Belt Co., Bridgeport, Conn.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Michigan Sprocket Chain Co., Detroit, Mich.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Round, David, & Son., 7625 B'way, S. E., Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Stephens-Adamson Mfg. Co. ("S-A"), Aurora, Ill.
Taylor Iron & Steel Co., High Bridge, N. J.
**WEBSTER MFG. CO., THE, 2410 W** 15th, Chicago. Ill. (See adv. index & branch offices, end of book)
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T., CHAIN** Works, Trenton, N. J. (See adv. index, Woodhouse, Sam'l, Cleveland, O. end of book)

## Chains (Stay)

(See Chains, Wagon)

## Chains (Steam Shovel)

(See Chains, Dredge)

## 1706—Chains (Steel Bushed Roller)

**Boland** Machine & Mfg. Co. ("Mallon's"), New Orleans, La.
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Sprocket Chain Co., Detroit, Mich.
Stephens-Adamson Mfg. Co. ("S-A"), Aurora, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Whitney Mfg. Co. (Detachable or Riveted), Hartford, Conn.

## 1707— Chains (Stone)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Columbus Chain Co., Columbus, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rock, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Pollard, Jos. G. (Fitted with Steel Hooks), 141 Raymond Brooklyn, N. Y
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1708—Chains (Stone Conveyor)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**PITTSBURG CONVEYING MACHINery Co., Pittsburg, Pa. (See adv. index, end of book)**
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton, N. J. (See adv. index, end of book)

## 1709— Chains (Stud Link)

Carter Iron Co. ("Carter"), Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rock, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
**WHITEHILL CHAIN WORKS, North** Fieldsboro, N. J. (See adv. index, end of book)
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
**WOODHOUSE, J. & T. CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1710— Chains (Tie Out)

Bridgeport Chain Co., Bridgeport, Conn.
McKinnon Chain Co., Buffalo, N. Y.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
**Oneida Community (Ltd.). Dept. G. ("American." "Eureka." "Oneida"). Oneida, N.Y.**
**WOODHOUSE, J. & T. CHAIN WKS.,** Trenton. N. J. (See adv. index, end of book)

## 1711— Chains (Trace)

American Hame & Mfg. Co., New Albany, Ind.
Bridgeport Chain Co., Bridgeport, Conn.
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Mundorf, Geo. W., York, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Round, David & Son, 7625 B'way, S. E., Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co. ("Elweltra"). Pittsburg, Pa.
**WOODHOUSE, J. & T. CHAIN** Works, Trenton, N. J. (See adv. index, end Woodhouse, Samuel, Cleveland, O. of book)

## 1712— Chains (Transfer)

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Sprocket Chain Co., Detroit, Mich.
Moline Malleable Iron Co., St. Charles, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 1713— Chains (Transom)

Bridgeport Chain Co., Bridgeport, Conn.
Champion Safety Lock Co., Geneva, O.
Reading Hardware Co., Reading, Pa.
Smith & Egge Mfg. Co., Bridgeport, Conn.

## 1714— Chains (Tubular)

**Diamond Chain & Mfg. Co. (Tubular & Rivet). Indianapolis, Ind.**
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)

## 1715— Chains (Wagon)

American Hame & Mfg. Co., New Albany, Ind.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co. (Stud Link). Columbus, O
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Oneida Community (Ltd.). Dept. G (Weldless. "American." "Niagara." "Eureka"). Oneida, Seneca Chain Co., Kent, O. N. Y.
Standard Chain Co., Pittsburg, Pa.
Starr, W. C. & Son, Richmond, Ind.
**WOODHOUSE, J. & T. CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1716— Chains (Welded)

Philadelphia Chain Works, Frankford, Phila., Pa.

## 1717—Chains (Weldless Steel Wire)

**BRIDGEPORT CHAIN CO., Bridgeport, Conn.** (See adv. index, end of book)

## 1718— Chains (Well)

(See also Chains, Galvanized Pump)

**BRIDGEPORT CHAIN CO., Bridgeport, Conn.** (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Mundorf, Geo. W., York, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
**WOODHOUSE, J. & T. CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1719— Chains (Windmill)

**BRIDGEPORT CHAIN CO., Bridgeport, Conn.** (See adv. index, end of book)
McKay, Jas. Co., Pittsburg, Pa. Works, McKees Rocks, Pa.
Seneca Chain Co., Kent, O.
**Oneida Community (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.**
Standard Chain Co., Pittsburg, Pa.
**WOODHOUSE, J. & T. CHAIN** Works, Trenton, N. J. (See adv. index, end of book)

## 1720— Chains (Wrecking)

American Hame & Mfg. Co., New Albany, Ind.
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Pittsburg, Pa.; Works: McKees Rocks, Pa.
**NEWHALL CHAIN, FORGE & IRON CO.,** 90 West, New York
Round, D. & Son, 2285 B'way, Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 319 W Indiana, Chicago, Ill.
Weimer Chain & Iron Co. (Hand Made), Lebanon, Pa.
**WOODHOUSE, J. & T. CHAIN** Works, Trenton, N. J. (See adv. index, end of book)
Woodhouse, Samuel, Cleveland, O.

## Chair Cane

(See Rattan & Reed Manufacturers)

## 1720a—Chairs (Cast Iron)

(See Fountains, Vases, Etc.; also Settees & Chairs, Iron)

## 1721— Chairs (Dental)

Ritter Dental Mfg. Co. ("Columbia"), Rochester, N. Y.

## 1722— Chairs (Folding)

Bausman, D. H. (Steel, High, Low Lawn), Bausman, Pa.
**BURROWES, E. T. CO., THE ("Burrowes" Feather Weight), Portland, Me.** (See adv. index & branch offices, end of book)
Chicago Wire Chair Co. (Metal Frame), 619 La Salle av, Chicago, Ill.
Curtiss Bros. (Camp), Richland, N. Y.
Kalamazoo Sled Co., Kalamazoo, Mich.
Lattimer, W. H. & Sons (Canvas), Orwell, N. Y.
Marks Adjustable Chair Co. (Also Adjustable), 11 E 30th New York
Peabody School Furniture Co., North Manchester, Ind.
Readsboro Chair Mfg. Co. (& Tables), Readsboro. Vt.
Simmons Mfg. Co., Kenosha, Wis.
Stevens Chair Co. (Adjustable), Pittsburg, Pa.
Sun Mfg. Co. (Camp & Lawn), Columbus, O.

## 1723— Chairs (Invalid)

(See also Chairs, Reclining)

Bernstein Mfg. Co. (Reclining & Rolling, etc.), 3d & Westmoreland, Phila., Pa.
Gendron Wheel Co., Toledo, O.
Kalamazoo Sled Co. (Rocking & Reclining), Kalamazoo, Mich.
Marks Adjustable Chair Co. (Wheel Chairs, etc.), 11 E 30th, New York

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Sackman Mfg. Co. (Inc.) ("Barnhart," All Steel Reclining & Swinging), Akron, O.
Sargent Mfg. Co., Muskegon, Mich.
Worthington Co., Elyria. O.

## 1724– Chairs (Metal)

Andrews, A. H. Co., 174 Wabash av, Chicago, Ill.
Chicago Wire Chair Co. (Chairs, Tables, Stools, etc.), 619 Lasalle, Chicago, Ill.
Royal Metal Mfg. Co. (Metal Chairs, Tables & Stools of Twisted Metal), 1817 Dearborn, Chicago, Ill.

## 1725– Chairs (Rail)

Buda Co., Railway Exch. bldg, Chicago, Ill.
Burnham & Duggan Railway Appliance Co. (For Paved Track), 89 State, Boston, Mass.
Lorain Steel Co. (Drop Forged. Used Under Shallow Girder or Tee Rails in Paved Streets), Johnstown, Pa.
Morden Frog & Crossing Works (Head Chairs), Commercial Bank bldg, Chicago, Ill.
Penna. Steel Co., Morris bldg, Phila., Pa.
Pettibone, Mulliken & Co. (Sampson Head Chairs). 204 Dearborn, Chicago, Ill.
Weir Frog Co., Beech & Highland av, Cincinnati, O.
Wharton, Wm. Jr. & Co. (Inc.), 25th & Washington av, Phila., Pa.

## Chairs (Rattan)

(See Furniture, Rattan & Reed)

## 1726– Chairs (Reclining)

(See also Chairs, Invalid)

Andrews, A. H. Co., 174 Wabash av, Chicago, Ill.
Bernstein Mfg. Co. (Self-Propelling), 3d & Westmoreland, Phila., Pa.
Fletcher Furniture Co., Nashua, N. H.
Kalamazoo Sled Co., Kalamazoo, Mich.
Marks Adjustable Chair Co. (Adjustable Reclining Rocking), 11 E 30th, New York
Sargent Mfg. Co., Muskegon, Mich.
Scarritt, Comstock Co., St. Louis, Mo.
Stevens Chair Co., Pittsburg, Pa.

## 1727– Chairs (Revolving)

**Barnard & Simonds Co., Rochester, N. Y.**
**Bent, S. & Bro., Gardner, Mass.**
**Bethel Mfg. Co., Bethel, Me.**
**Bodenstein & Kuemmerle (Inc.), Phila., Pa.**
**Carriage & Toy Co., Baltimore, Md.**
**Central Chair Co., Indianapolis, Ind.**
**Chichester Bros. Chair Co. (Typewriter, Adjustable Back), Poughkeepsie, N. Y.**
**Chipman, Geo. & Son, Baltimore, Md.**
**Cleveland Store Fixture Co., Cleveland, O.**
**Closterman, H., Cincinnati, O.**
**Columbus Aseptic Furniture Co., Columbus, O.**
Conrades Chair Co., St. Louis, Mo.
Crocker Chair Co., Sheboygan, Wis.
**Crown Chair Mfg. Co., Evansville, Ind.**
**Culler Furniture Co., Williamsport, Pa.**
**Davis Chair Co. (Office & Typewriter), Marys-**
De Frehn, W. & Sons, Johnstown, Pa. ville, O.
Dunn, Jno. A. Co., Gardner, Mass.
Eclipse Mfg. Co. (Office Arm Chairs, etc.), York, Pa.
Ford & Johnson Co., 1550 Indiana av, Chicago,
Fort Smith Chair Co., Fort Smith, Ark. Ill.
**Grand Ledge Chair Co., Grand Ledge, Mich.**
**Greenwood Bros. Co., Gardner, Mass.**
**Gunlocke, W. H. Chair Co., Wayland, N. Y.**
Hale Co., 14 Stone, New York
**Hartwig & Kempner, Baltimore, Md.**
**Heywood Bros. & Wakefield, Gardner, Mass.**
Hubbard, Eldredge & Miller, Rochester, N. Y.
Karpen, S. & Bros., 22d & Union, Chicago, Ill.
Kohn, Jacob & Josef, 110 W 27th, New York
**Logeman, F. H. Chair Mfg. Co., St. Louis, Mo.**
**Marble, B. L. Chair Co., Bedford, O.**
**Marble & Shattuck Chair Co. (Office Desk), Foster av nr Doan, Cleveland, O.**
**Marietta Chair Co., Marietta, O.**
**Milwaukee Chair Co., Milwaukee, Wis.**
Murphy Chair Co. (Office), Detroit, Mich.
Nichols & Stone, Gardner, Mass.
**Otsego Chair Co., Otsego, Mich.**
**Ott, L. W. Mfg. Co., Indianapolis, Ind.**
**Parkersburg Chair Co., Parkersburg, W. Va.**
**Phoenix Chair Co., Sheboygan, Wis.**
Pierce, S. K. & Son, Gardner, Mass.
**Poughkeepsie Chair Co., Poughkeepsie, N. Y.**
**Retting Furniture Co., Grand Rapids, Mich.**
**Rossell Bros. & Co., Phila., Pa.**
**Royal Metal Mfg. Co., 1817 Dearborn, Chi-**
**Sikes Chair Co, Buffalo, N. Y. cago, Ill.**
**Sikes Co., 23rd & Ritner, Phila., Pa.**
**Sikes Consolidated Chair Co., 413 E 31st, New**
**Southern Chair Co., High Point, N. C. York**
**Taylor Chair Co., Bedford, O.**
Thonet Bros., 860 B'way, New York
**Toledo Metal Furniture Co., Toledo. O.**
Tonk Mfg. Co., Clybourn av & Lewis, Chicago,
Union City Chair Co., Union City, Pa. Ill.
**Webster Mfg. Co., Superior, Wis.**
**Williams & Co., Toledo. O.**

## 1728–Chairs (Spacing, Concrete Reinforcing)

National Wire Cloth Co. ("National"), Sandusky. O.

## 1729– Chairs (Steamer)

Collegnon, A., Westwood, N. J.

## Chairs (Steel)

(See Stools, Steel Factory & Office)

## 1730– Chalk (Billiard)

**AMERICAN CRAYON CO. (White & Colored, "Diamond," "Eureka"), Sandusky, O. (See adv. index & branch offices, end of book)**

## 1731– Chalk (Bowling)

**AMERICAN CRAYON CO. (Hand & Foot), Sandusky, O. (See adv. index & branch offices, end of book)**

## 1732– Chalk (Carpenters')

**AMERICAN CRAYON CO., Sandusky, O. (See adv. index & branch offices, end of book)**

## 1733– Chalk Lines

**Bibb Manufacturing Co., Macon, Ga.**
**Draper, W. H. & Son (Also Fish Lines), Troy, N. Y.**
**Gladding, B. F. & Co. (Also Cotton, Linen & Silk Fish Lines), S. Otselic, N. Y.**
**Ossawan Mills Co., Norwich, Conn.**
**SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)**
**SILVER LAKE CO., 78 Chauncy, Boston, Mass. (See adv. index, end of book)**

## 1733a–Chalk (Lump & Powdered)

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)

## 1734– Chalk Mfrs.

**AMERICAN CRAYON CO. (Carpenters', Bowling & Billiard), Sandusky, O., & Waltham, Mass. (See adv. index, end of book)**
**Binney & Smith Co. (All Kinds), 81 Fulton, New York**
**Steward, D. M. Mfg. Co., East End, Chattanooga, Tenn.**
**Stickney, Terrill & Co. (Importers), 31 Milk, Boston, Mass.**

## 1735–Chalk (Precipitated)

**DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)**
Knappmann, Wm. & Co., 165 B'way, New York
National Aniline & Chemical Co., 100 William, New York

## 1736– Chamois

American Silk Mfg. Co. (Raw Silk), 4341 Orchard, Phila., Pa.
**Drueding Bros. Co., 5th & Master, Phila., Pa.**
Lampel, F. L. Sponge & Chamois Co. (Imported), St. Louis, Mo.
**Leousi, Clonney & Co., 39 Walker, New York**
Moses. A. Sons & Co., 73 Wooster, New York
**National Sponge & Chamois Co., 158 William,**
**Niehaus, Jos. Co., Cincinnati, O. New York**
Stewart Sponge & Chamois Co., 73 Wooster, New York
**Vollman Sponge Co., 73 Wooster, New York**
White, Son Co., 540 Atlantic av, Boston, Mass.
**Young, Richard Co., 36 Spruce, New York**

## 1736a–Changeable Office & Loft Building Directories

**TABLET & TICKET CO., 541-553** Jackson blvd, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

## 1737– Changers (Lamp)

Matthews, W. N. & Bro. ("Matthews"), St. Louis, Mo.

## 1738– Changers (Pole)

American Elec. Telephone Co., 64th & State, Chicago, Ill.
Current Electric Co. ("Standard"), 18 E. Kinzie, Chicago, Ill.
**Holtzer-Cabot Electric Co. (Telephone), Brookline, Mass.**
**Kellogg Switchboard & Supply Co., Green & Congress, Chicago, Ill.**
**Sandwich Pole Changer Co. (Sandwich Elec. Co. Propt's), Sandwich. Ill.**
**Warner Electric Co., Muncie, Ind.**

## 1738a–Channels (Small, for Fire-Proofing Purposes)

**GOFF, HORNER & CO. (Ltd.), Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 1739– Chaplets (Foundry)

(See also Foundry Facings & Supplies)

Burdick & Son (Core), Albany. N. Y.
Champion Machine & Forging Co., Cleveland, O.
Cleveland Fillet Co., Cleveland, O.
Crescent Brass & Pin Co., Detroit, Mich.
Gem Mfg. Co., Pittsburg, Pa.
Fanner Mfg. Co., Cleveland. O.
McCormick, J. S. Co., Pittsburg, Pa.
Philadelphia Chaplet & Mfg. Co., School la & P. & R. Ry, Wiss, Phila., Pa.
Pratt Chuck Co., Frankfort, N. Y.
Rochester Foundry Co. (Grey Iron), Rochester,
Shanafelt Mfg. Co., Canton, O. N. Y.

## 1740– Charcoal

Alabama Charcoal Co., Kansas City, Mo.
Alton Chemical Co., Bradford, Pa.
Antrim Iron Co., Grand Rapids, Mich.
Ballard, J. W., Binghamton, N. Y.
Bartley, John S., Alton, Pa.
Berger Bros., 1217 S State, Chicago, Ill.
Binney & Smith Co., 81 Fulton, New York
Blue Cut Charcoal Co., Helper. Utah
Boyne City Chemical Co., Boyne City, Mich.
Bradford Chemical Co., Bradford, Pa.
Brown, L. S. Charcoal Co. (Lump, Flour & Granulated), Springfield, Mass.
Buchannon Chemical Co., Olean, N. Y.
Cadillac Chemical Co. (Retort). Cadillac. Mich.
Chemical Charcoal Co. (Chemical), Buffalo,
Cleveland-Cliffs Iron Co., Cleveland, O. N. Y.
Coryville Chemical Co., Bradford, Pa.
Cummer, Diggins & Co. (Retort), Cadillac, Mich.
**DOGGETT, STANLEY (Powdered), 101 Beekman, New York. (See adv. index, end of book)**
**du PONT, E. I. de NEMOURS POWder Co. (Willow), Wilmington, Del. (See adv. index & branch offices, end of book)**
Ginn Co., Ironton, O.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Holly Charcoal Co. (Pit Burnt & Retort Product), Ironton, O.
Homestead Charcoal & Chemical Co., Homestead Sta. Mich.
Illinois Charcoal Chemical Co., Kansas City, Mo.
Imerman. A. & Co., Thompsonville, Mich.
James Mfg. Co., Kane, Pa.
Kelly, Thos. P. & Co. ("Kelly's," Prepared for Foundry Use), 544 W 22d, New York
Lewis Run Mfg. Co., Bradford, Pa.
Long Island Charcoal Co., 212 24th, Brooklyn,
McCormick, J. S. Co., Pittsburg, Pa. N. Y.
Manufacturers' Charcoal Co., Bradford, Pa.
**Marvindale Chemical Co., Bradford, Pa.**
Maryland Wood Products Co., Bradford, Pa.
Mashek Chemical & Iron Co., **Wells, Mich.**
Miller Bros., Colden, N. Y.
Mitchell-Diggins Iron Co., **Cadillac, Mich.**
Montour Charcoal Co., Kansas City, Mo.
Newman, E. B. Charcoal Co., 548 W 25th, New
Newton Chemical Co., Olean, N. Y. York
Noble Electric Steel Co., San Francisco, Cal.
Nusbaum Chemical Co., Bradford, Pa.
Oswayo Chemical Co., Bradford, Pa.
Phipps Charcoal Co., Ironton, O.
Rasmussen Charcoal & Fuel Co., St. Paul, Minn.
Rowand, John R. (Re-carbonized, Pulverized & Granulated), Clementon, N. J.
Russell Chemical Co., Russell, Pa.
Silliman, Jno. (Hardware), Ironton, O.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N. W., Cleveland. O. (See adv. index, end of book)

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Smith, A. B. Chemical Co., Buffalo, N. Y.
**SPRINGFIELD FACING CO. (In** Every Form), Springfield, Mass. (See adv. index, end of book)
Standard Charcoal Co., Bradford, Pa.
Stevens, Frederic B. (Parting & Powdered), Detroit, Mich.
Wolf, Penrose, Rockwood, Pa.
Wright, T. B. & Co., Mariners' & Merchants' bldg, Phila., Pa.

## 1741— Charcoal (Bone)

Baugh & Sons Co. (Animal Charcoal), 20 S Delaware av, Phila., Pa.
**Binney & Smith Co., 81 Fulton New York.**
Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry Rd., Phila., Pa.

## 1742—Charging Sets (Automobile)

Dayton Electrical Mfg. Co. ("Apple's"), Dayton, O.
**GENERAL ELECTRIC CO. (Arc Rec**tifier), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Richardson Engineering Co., Hartford, Conn.
Wagner Electric Mfg. Co., 2015 Locust, St. Louis, Mo.
**WESTINGHOUSE ELECTRIC & MFG. CO.**, Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 1742a—Charging Sets (Storage Battery)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1743— Chasers (Screw)

Brubaker, W. L. & Bro., Millersburg, Pa.
Card Mfg. Co., Mansfield, Mass.
Polk, A. J. & Son, Millersburg, Pa.

## 1744—Check Blanks (Brass)

Matthews, Jas. H. & Co., Pittsburg, Pa.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Rome Brass & Copper Co., Rome, N. Y.
Schwerdtle Stamp Co. (Key, Time & Pay), Bridgeport, Conn.
Waterbury Brass Goods Corp., Waterbury, Conn.

## 1745— Check Perforators

Childs, S. D. & Co., 200 S Clark, Chicago, Ill.
Cummins, B. F. Co., 4740 W Ravenswood Pk, Chicago, Ill.
Ingersoll, Robt. H. & Bro. ("J. H. Williams Patent"), 45 John, New York
Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
Pritchard Stamping Co., Rochester, N. Y.
Wesley Mfg. Co., 31 Beekman, New York

## 1746— Check Protectors

Angell, E. E. & Co. ("Printamount"), 366 Atlantic, Boston, Mass.
Defiance Machine Co. ("Defiance," "Twentieth Century"), Rochester, N. Y.
Hill Independent Mfg. Co., Muskegon, Mich.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Ingersoll, Robt. H. & Bro. ("J. H. Williams Patent"), 45 John, New York
Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
Smith, R. H. Mfg. Co., Springfield, Mass.
Todd, G. W. & Co. ("Protectograph"), Rochester, N. Y.
Zeno Mfg. Co., Pasadena, Cal.

## 1747— Checks (Baggage)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
Black, A. S., Cincinnati, O.
Brass Goods Mfg. Co., Nevin c Union, Brooklyn, N. Y.
Dennison Mfg. Co. (Paper & Cloth), Boston, Mass.
Gibson, A. C. Co., 388 Wash'n, Buffalo, N. Y.
Hanson, C. H., 44 Clark, Chicago, Ill.
Hoil Mfg. Co., Buffalo, N. Y.
Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
New York Stencil Works, 100 Nassau, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Phoenix Specialty Mfg. Co., Centre & Duane, New York
Robbins, John Mfg. Co. (Also Red Fibre Key Tags), 58 Kneeland, Boston, Mass.
**Sackmann Mfg. Co.** (Brass & Aluminum, for All Purposes), Akron, O.
Salisbury Mfg. Co. (Heavy Paper), Providence,
Schwerdtle Stamp Co., Bridgeport, Conn. R. I.
Spencer, Wm. W., 206 Post sq, Cincinnati, O.
Stafford, Nelson Co., 67 Fulton, New York
Stewart & Holihan (Brass), 201 B'way, New York
Tenney, J. F. Co., 210 S Water, Chicago, Ill.
Volk Stamp & Stencil Co., Detroit, Mich.
Wilcox, W. W. & Co., 325 Dearborn, Chicago, Ill.
Woodman, R. Mfg. & Supply Co., 63 Oliver, Boston, Mass.
Wright, Gregory G. & Son, Cincinnati, O.

## 1748—Checks (Factory Time)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
**CONTINENTAL FIBRE CO. (Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO. (Fibre),** Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Hard** Fibre), Elsmere, Del. (See adv. index, end of book)
Matthews, Jas. H. & Co., Pittsburg, Pa.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY CO.,** (Fibre), Wilmington, Del. (See adv. index & branch offices, end of book)
Woodman Mfg. & Supply Co., Boston, Mass.

## 1749—Checks (Identification)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
Matthews, Jas. H. & Co., Pittsburg, Pa.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Phoenix Specialty Mfg. Co., Centre & Duane
Sackmann Mfg. Co. (Inc.), Akron, O. New York

## 1750— Checks (Key)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
Eagle Lock Co. (Brass), Terryville, Conn.
Matthews, Jas. H. & Co., Pittsburg, Pa.

## 1751—Checks (Screen Door)

Arcade Mfg. Co. ("Warner"), Freeport, Ill.
Caldwell Mfg. Co. ("Caldwell & Dime"), Rochester, N. Y.
Larimer Mfg. Co., Ecla, Ill.
Sargent & Co. ("The No Slam"), New Haven, Conn.
Superior Spring Hinge Co. ("Superior"), 152 E Lake, Chicago, Ill.

## 1752—Checks (Slot Machine)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
Hanson, C. H. (Also Pay Checks, etc.), 44 S Clark, Chicago, Ill.
Matthews, Jas. H. & Co., Pittsburg, Pa.

## 1753— Checks (Trade)

Aluminum Goods Mfg. Co., Manitowoc, Wis. Two Rivers, Wis.
**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
Hanson, C. H., 44 Clark, Chicago, Ill.
Matthews, Jas. H. & Co., Pittsburg, Pa.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Phoenix Specialty Mfg. Co., Centre & Duane,
Schwerdtle Stamp Co., Bridgeport, Conn.
Swisher, R. D. Mfg. Co., 413 S Clinton, Chicago, Ill.

## 1754—Chemical Apparatus

Bausch & Lomb Optical Co., Rochester, N. Y.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Braun Corporation, Los Angeles, Cal.
Braun-Knecht-Heimann Co., San Francisco, Cal.
Berge, J. & H., 95 John, New York
Caire, Justinian Co., San Francisco, Cal.
Caloris Company, Phila., Pa.
Chicago Apparatus Co., 557 W Quincy, Chicago, Ill.
Denver Fire Clay Co., Denver, Colo.
Eimer & Amend, 205 3d av, New York
Feidt, Geo. D., & Co., 27 N. 7th, Phila., Pa.
Golden Pressed & Firebrick Co., Denver, Colo.
Graham, Chas. Chemical Pottery Wks. ("Stoneware," Acid Proof), 986 Met. av, Brooklyn,
Greiner, Emil Co., 45 Cliff, New York N. Y.
Heil, Henry Chemical Co., St. Louis, Mo.
International Instrument Co., 23 Church, Cambridge, Mass.
Knott, L. E. Apparatus Co., Boston, Mass.
Kohlbusch, Sophia M., 194 B'way, New York
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Sargent, E. H. & Co., 143 Lake, Chicago, Ill.
Stoelting, C. H. Co., 125 N Greene, Chicago, Ill.
Taunton Crucible Co. (Black Lead Crucibles, Stoppers, Nozzles, Covers, Dips, Basins, Stirrers, Domes, etc., for Assayers & Refiners), Taunton, Mass.
Thomas, A. H. Co., 1200 Walnut, Phila., Pa.

## 1755—Chemical Industries (Plants & Apparatus for)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 1756—Chemical Plants (Designers & Erectors)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
**GRISCOM-SPENCER CO., 90 West,** New York. (See adv. index & branch offices, end of book)

## 1757—Chemicalizers for Street-Alley Flushing

Thompson, Walter M., Cincinnati, O.

## 1758— Chemicals

Alba Mfg. Co., Aurora, Ill.
American Agricultural Chemical Co., 2 Rector, New York
Ames, Merritt, Glens Falls, N. Y.
Avery Chemical Co., Boston, Mass.
Baker & Adamson Chemical Co., Easton, Pa.
**Barrett Mfg. Co., 17 Battery pl, New York,** & Phila., Pa.
Baugh & Sons Co., 20 S Delaware av, Phila., Pa.
**Bausch & Lomb Optical Co., Rochester, N. Y.**
Begy, J. A. Co., Rochester, N. Y.
Billings-Clapp Co., Boston, Mass.
Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry Rd., Phila., Pa.
Burns, Foster & Co., 934 Pratt, Chicago, Ill.
Butterworth-Judson Co., Newark, N. J.
Castner Electrolyte Alkali Co., Niagara Falls, N. Y.
Clark, Fred. G. Co. (Heavy Chemicals, for Wholesale Trade Only), Cleveland, O.
Cleveland Cliffs Iron Co., Cleveland, O.
Commercial Acid Co. (Heavy), St. Louis, Mo.
Contact Process Co., Buffalo, N. Y.
Consolidated Chemical Co., Kane, Pa.
Cooper, Chas. & Co., 194 Worth, New York
De Pree Chemical Co., Holland, Mich.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Dow Chemical Mfg. Co., Mansfield, O.
Dow Chemical Co., Cleveland, O.
Drakenfeld, B. F. & Son (Importers), 27 Park pl., New York
Eimer & Amend (Jobbers, etc.), 205 3d av, New York
Gabriel & Schall (Importers), 205 Pearl, New York
General Chemical Co., 25 Broad, New York
Grant, J. C. Chemical Co., East St. Louis, Ill.
Grasselli Chemical Co., Cleveland, O. & 60 Wall, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Innis, Speiden & Co. (Nitrate of Soda, Anilines, etc.), 46 Cliff, New York
Keery Chemical Co., Hancock, N. Y.
Keery, Thos., Hancock, N. Y.
Klipstein, A. & Co., 122 Pearl, New York
Krebs Pigment & Chemical Co., Newport, Del.
Lamont Chemical Co., Kane, Pa.

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Lufberg, Geo. F. Jr., Elizabeth, N. J.
Mallinckrodt Chemical Works, St. Louis, Mo.
Mechling Bros. Mfg. Co., 949 N 9th, Phila.,
Merrimac Chemical Co., Boston, Mass. Pa.
Metzgar Chemical Co., 164 Front, New York
National Aniline & Chemical Co., 100 William, New York
Naugatuck Chemical Co. (Heavy), Naugatuck, Conn.
Paper Makers' Chemical Co. (Paper Makers), Easton, Pa.
Penn Chemical Works, 1332 Wash'n, Phila., Pa.
Rhodes, Jas. H. & Co. (Industrial Chemicals), 162 W Kinzie, Chicago, Ill.
Salmon, Hamilton H. & Co., 88 Wall, New York
Salomon, L. A. & Bro., 216 Pearl, New York
Schoellkopf, Hartford & Hanna, Buffalo, N. Y.
Sholes, Chas. E. Co., 164 Front, New York
Stamford Mfg. Co. (Chemicals & Dyestuffs), 88 Wall, New York, & Stamford, Conn.
Sullivan Chemical Co., Acidalia, N. Y.
Thayer, E. M. & Co., Boston, Mass.
Thomsen Chemical Co., Baltimore, Md.
Union Sulphur Co. (Sulphor Only), 82 Beaver, New York
Wood Products Co., Buffalo, N. Y.

## 1759—Chemicals (Battery)

Barrett, M. L. & Co. (Sal-Ammoniac Only), 219 Lake, Chicago, Ill.
Butterworth-Judson Co. (Blue Vitriol), Newark, N. J.
Carry, Edw. E. & Co. (Importers), 30 Church, New York
Cochrane Chemical Co. ('Blue Vitriol), Boston,
Contact Process Co., Buffalo, N. Y. Mass.
Cooper, Chas. & Co., 194 Worth, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Eimer & Amend, 18th & 3d av, New York
Fergusson Bros. (Blue Vitriol), 109 Chestnut, Philadelphia, Pa.
French Battery & Carbon Co. (Importers), Madison, Wis.
General Chemical Co. (Blue Vitriol, etc.), 25 Broad, New York
Globe Chemical Co., Cincinnati, O.
Grasselli Chemical Co. (Blue Vitriol Storage Battery Acid), Cleveland, O., & 60 Wall, New York
Harding & Faucourt, 1095 Germantown av, Phila., Pa.
Harshaw, Fuller & Goodwin Co. (Blue Vitriol), Cleveland, O.
Innis, Speiden & Co. (Blue Vitriol, 46 Cliff, New York
Jaeck, Hector C., 215 Russell, Brooklyn, N. Y.
Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Klipstein, A. & Co., 122 Pearl, New York
Mallinckrodt Chemical Works, St. Louis, Mo.
Merck & Co., 8th & University pl, New York
Nichols Copper Co. (Blue Vitriol), 25 Broad, New York
Penna. Salt Mfg. Co. (Blue Vitriol), 115 Chestnut, Phila., Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.
Sholes, Chas. E. Co. (Blue Vitriol), 164 Front, New York
**TOCH BROS. (Est. 1848), 320 5th av,** New York
United Zinc & Chemical Co. (Battery Acid, etc.), Kansas City, Mo.
Western Chemical Mfg. Co., Denver, Colo.

## 1760—Chemicals (Mantle, Incandescent Light)

Lieber, H. & Co., 1 Platt, New York
Reno, Morris, 100 William, New York

## 1761—Chemicals (Nickel & Electroplating)

Dow Chemical Mfg. Co., Mansfield, O.
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co., Cleveland, O.

## 1762—Chemicals & Gases (Liquified)

Liquid Carbonic Co., 420 Wells, Chicago, Ill.
White, S. S., Dental Mfg. Co., 1130 Chestnut, Philadelphia, Pa.

## 1763— Chemists

Booth, Garrett & Blair (Metallurgical), 404 Locust, Phila., Pa.
Davis, Geo. Co. (Metallurgical), 39 S 10th, Phila., Pa.
Gulick, Henderson Co., 30 Church, New York, & Pittsburg, Pa.
Hamlin & Morrison (Analytical), Forest bldg, Phila., Pa.
Metallurgical Laboratory, Pittsburg, Pa.
Picard-Law Co. (Connecting & Analytical), Atlanta, Ga.
Sadtler, Sam'l P. & Son (Consulting & Analytical), 10th & Chestnut, Phila., Pa.
Smith, Rudy & Co., 411 Walnut, Phila., Pa.
Teeple, Jno. E. Ph. D. (Consulting & Chemical Engineer), 50 Church, New York

## 1764— Chests (Cedar)

Vestal Lumber & Mfg. Co. ("Tennessee" Red Cedar), Knoxville, Tenn.

## 1764a—Chests (Manganese Steel)

**HALL,S SAFE CO. (For Merchants),** 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)

## 1765— Chests (Stuff)

Dillon Machine Co., Lawrence, Mass.
Dilts Machine Works (Horizontal & Vertical), Fulton, N. Y.
Noble & Wood Machine Co., Hoosick Falls, N. Y.

## 1766— Chests (Tool)

American Radiator Co. (Steel), 282 Michigan av, Chicago, Ill.
American Tool Chest Co. (& Tool Cabinets), 200 W Houston, New York
Bonney Vice & Tool Works (Inc.) (Machinists', also Carpenters' Shoulder), Allentown, Pa.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Jennings, C. E. & Co., 42 Murray, New York
Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.
Paine Furniture Co., 48 Canal, Boston, Mass.
Pilloid Lumber Co., Swanton, O.
Union Tool Chest Works, Rochester, N. Y.
Vanderman Mfg. Co. (Steel), Willimantic, Conn.
Wedell & Boers, Detroit, Mich.

## 1766a—Chimes (Automobile)

**BARCO BRASS & JOINT CO. ("Barco"** Four Toned Motor ), 226 N Jefferson, Chicago, Ill. (See adv. index, end of book)

## 1767—Chimes (Saddle, Pole, Hame, Etc.)

Starr Bros. Bell Co., East Hampton, Conn.

## Chimney Pipe

(See Flue Linings)

## 1768— Chimney Tops

American Sewer Pipe Co., Akron, O.
Baltimore Retort & Fire Brick Co., Baltimore, Md.
Baltimore Terra Cotta Works, Baltimore, Md.
Buckeye Fire Clay Co., Uhrichsville, O.
Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.
Clark, N. & Sons, 116 Natoma, San Francisco Cal.
Clawson, L. E. & Co., San Francisco, Cal.
Dee, Wm. E. Clay Mfg. Co., 108 Lasalle, Chicago, Ill.
Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
Evens & Howard Fire Brick Co., St. Louis, Mo.
Excelsior Fire Clay Co. ("Excelsior"), Lisbon, O.
Gladding, McBean & Co. (& Pipe), Crocker bldg, San Francisco, Cal.; Works: Lincoln, Cal.
Iwan Bros., South Bend, Ind.
Laclede-Christy Clay Products Co., St. Louis,
Little Falls Fire Clay Co., Tacoma, Wash. Mo.
Macomb Sewer Pipe Co., Macomb, Ill.
Monmouth Mining & Mfg. Co., Monmouth, Ill.
New York Pottery Co., Fuller bldg, New York
Pittsburg Sewer Pipe & Conduit Co., Pittsburg,
Reeve, Augustus, Camden, N. J. Kan.
Robinson Clay Product Co., Akron, O.
Southern Terra Cotta Co., Atlanta, Ga.
Stevens, H. Sons Co., Macon, Ga.
Streator Clay Mfg. Co., Streator, Ill.

## 1769—Chimney Tops (Revolving)

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
Eureka Fence Mfg. Co. ("Richmond"), Richmond, Ind.
Feld, Geo. A. Co., 164 E 129th, New York
Iwan Bros., South Bend, Ind.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**OSBORN MFG. CO. ("Pond's"), 5401** Hamilton av, N E, Cleveland, O. (See adv. index, end of book)
Powers & Williams ("Powers"), Streator, Ill.
Sterling Foundry Co. ("Best"), Sterling, Ill.

## Chimney Tops (Slate)

(See Slate Stair Treads & Risers)

## 1770—Chimneys (Concrete)

Continental Portland Cement Co., St. Louis, Mo.
General Concrete Construction Co. (Tapering Reinforced), Manhattan bldg., Chicago, Ill.
Heine Chimney Co. (Re-Inforced Concrete), 115 Adams, Chicago, Ill.
Metal Concrete Chimney Co. (Reinforced Concrete), Chemical bldg, St. Louis, Mo.
non, Ind.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)
Weber Chimney Co. ("Weber," Reinforced Concrete), 209 State. Chicago, Ill.

## 1770a—Chimneys for Power Plants

(See Smokestacks, Steel; also Chimneys, Steel)

## 1771—Chimneys (Lamp, Glass)

Co-Operative Enterprise Glass Co., North Vernon, Ind.
Gill Bros. Co. ("Acme"), Steubenville, O
Gillinder & Sons, Phila., Pa.
Lippincott Glass Co., Alexandria, Ind.
Macbeth-Evans Glass Co. ("Macbeth," "Keystone," "Zenith," "Iron Clad," "Superior," "Crescent," "Empire"), Pittsburg, Pa.
Star Glass Co., Star City, W. Va.

## 1772— Chimneys (Mica)

Gleason, E. P. Mfg. Co., 37 Murray, New York
Huse, Jos. & Son, 95 Blackstone, Boston, Mass.
Mica Mfg. Co., 307 W B'way, New York
Munsell, Eugene & Co. ("Night"), 68 Church, New York
North Carolina Mica Co., 84 North, Boston,
Storrs Mica Co., Owego, N. Y. Mass.
United States Mica Co., 290 Lasalle, Chicago, Ill.

## 1773—Chimneys of Perforated Radial Blocks

(See also Chimneys, Concrete)

Custodis, Alphons Chimney Construction Co., 99 Nassau, New York
Heine Chimney Co., 115 Adams, Chicago, Ill.
Heinicke, H. R. (Inc.), 147 4th av, New York
Kellogg, M. W. Co. (Corrugated Radial Brick), 50 Church, New York
Standard Kiln & Chimney Construction Co., 34 W 33d, New York
Tatnall Engineering Co. ("Alphous Custodis"), Arcade bldg, Phila., Pa.
Wiederholdt Construction Co., St. Louis, Mo.

**If You Are In Doubt**

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

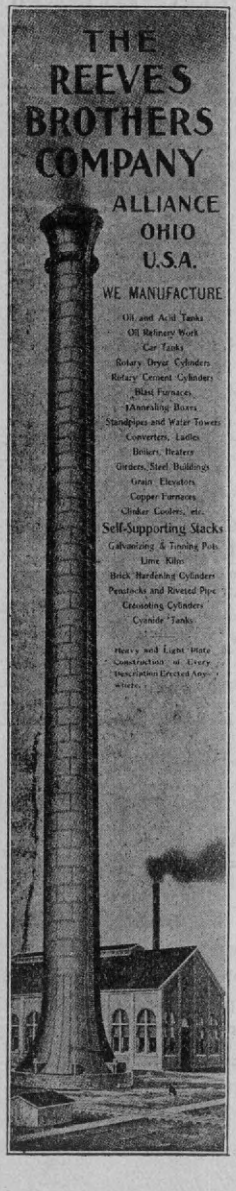
**They Can Tell You**

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## 1774– Chimneys (Steel)

(See also Smoke Stacks, Steel)

Aurora Boiler Works (Inc.), (Self-Supporting), Aurora, Ill.
Birmingham Boiler Works, Birmingham, Ala.
**CANTON BOILER & ENGINEERING CO.** (Self-Supporting), Canton, O. (See adv. index, end of book)
Chicago Bridge & Iron Works (Horace E. Horton, Prop.) (Self-Supporting), W 105th & Throop, Chicago, Ill.
Coatesville Boiler Works (Self-Supporting), Coatesville, Pa.
Connery & Co. (Self-Supporting), 9th & Master, Phila., Pa.
**DES MOINES BRIDGE & IRON CO.**, 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Frick Grate Bar Co. (Self-Supporting), 421 Chestnut, Phila., Pa.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)


**WE MANUFACTURE**

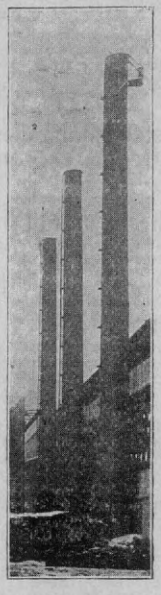
**Oil and Acid Tanks,**
**Oil Refinery Work,**
**Car Tanks,**
**Heavy Dryer Cylinders,**
**Rotary Cement Cylinders,**
**Blast Furnaces**
**Annealing Boxes,**
**Standpipes and Water Towers.**
**Converters,**
**Ladles,**
**Boilers,**
**Heaters,**
**Girders,**
**Steel Buildings**
**Grain Elevators,**
**Copper Furnaces,**
**Clinker Coolers, etc.**
**SELF-SUPPORTING STACKS.**
**Galvanizing and Tinning Pots**
**Lime Kilns,**
**Brick Hardening Cylinders,**
**Penstocks and Riveted Pipe,**
**Creosoting Cylinders,**
**Cyanide Tanks,**
**Heavy and Light Plate Construction of Every Description Erected Anywhere.**

**THE REEVES BROTHERS COMPANY**

**Alliance, Ohio, U. S. A.**


eine Chimney Co. (Self-Supporting), 115 Adams, Chicago, Ill.
eeler, E. Co. (Self-Supporting), Williamsport, Pa.
**ENNICOTT CO. (Self-Supporting),** Sales Office, Corn Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)


K STEEL CHIMNEYS K



K GENERAL PLATE CONSTRUCTION K

THE KENNICOTT COMPANY

Sales Office:
Corn Exchange Bank Bldg.,
Chicago, Ill., U. S. A.

K Works: Chicago Heights, Ill., U. S. A. K


**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. (Inc.),** Canton, O. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Lindsay, W. W. & Co., 1502 Market, Phila., Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**MICHELMANN STEEL CONSTRUCTION** Co. (Self-Supporting), Quincy, Ill. (See adv. index, end of book)
Muskegon Boiler Works (Self-Supporting), Muskegon, Mich.
National Boiler & Sheet Iron Works (Self Supporting), Indianapolis, Ind.
Novelty Steam Boiler Works ("Triplett & Jennings") (Self Supporting), Baltimore, Md.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Petty, J. K. & Co. (Lebanon Boiler Works) (Self-Supporting). Stephen Girard bldg. Philadelphia, Pa.; Works: Lebanon, Pa.
Philadelphia Iron Works, 18th & Penna. av. Phila., Pa.
Pollock, Wm. B. Co. (Self-Supporting), Youngstown, O.
**REEVES BROS. CO. (Self-Supporting),** Alliance, O. (See adv. index, end of book)
Riter Conley Mfg. Co. (Self-Supporting), Pittsburg, Pa., & 111 B'way, New York
Robb Engineering Co. (Ltd.), South Framingham, Mass.
**ROBERTS, S. H. BOILER & TANK** Co., Queens Junction, Pa. (See adv. index, end of book)
**SCHREIBER, L., & SONS CO., 8th & Eggleston av., Cincinnati, O., & 1133 B'way,** New York. (See adv. index & branch offices, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Treadwell Construction Co., Midland, Pa.
Treadwell, M. H. Co., 90 West, New York
Variety Iron & Steel Works Co., Cleveland, O.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
Wetherill, Robt. & Co. (Self Supporting), Chester, Pa.

## Chimneys & Shades (Incandescent Gas)

(See Shades & Reflectors, Glass & Porcelain)

## 1775–Chippers (Extract Wood)

Mitts & Merrill, Saginaw, Mich.

## 1776– Chippers (Ice)

Gifford-Wood Co. (Malleable Iron Handle), Hudson, N. Y.
North Bros. Mfg. Co. ("Crown," "Lightning"), Lehigh av & American, Phila., Pa.

## 1776a–Chips (Battery)

Metal Buying & Refining Co. (Refiners), San Francisco, Cal.

## 1777– Chisels (Box)

(See also Pullers, Nail)

Arcade Mfg. Co., Freeport, Ill.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Bonner, C. E. Mfg. Co. ("Victor"), N. Chrisman, Ill.
Bonney Vise & Tool Works (Inc.) (Drop Forged), Allentown, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
**BUFFUM TOOL CO. (Flat, Mallet** Head, Plain, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
Drew, C. & Co., Kingston, Mass.
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Elmore Tool Mfg. Co., Hartford, Conn.
Germantown Tool Works, Gtn, Phila., Pa.
Humason & Beckley Mfg. Co. (Cast Steel), New Britain, Conn.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mellor Box Opener ("Mellor"). Sedalia, Mo.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
S. & I. Co. (Button Hole), Springfield, Mass.
Sayre, L. A. & Co., Newark, N. J.
Stortz, John & Co., 210 Vine, Phila., Pa.
**Vaughn & Bushnell Mfg. Co. ("V. & B" Solid** Tool Steel Claw), 2130 Carroll av, Chicago, Ill.
Washington Cutlery Co., Watertown, Wis.

## 1778– Chisels (Brick)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brunner & Lay, 570 W Polk, Chicago, Ill.
Carver Tool Works, Spring Valley, N. Y.
Collins Co., Collinsville, Conn.
Crescent Novelty Mfg. Co., St. Louis, Mo.
Doble, Abner Co., San Francisco, Cal.


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Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
**Evansville Tool Works, Evansville, Ind.**
**Hiles, C. A. & Co., 14th & Western av., Chi-**
Kraeuter & Co., Newark, N. J. cago, Ill.
Marshalltown Trowel Co., Marshalltown, Ia.
Phillips, F. & Son, Baltimore, Md.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
**S. & I. Co. ("Never-Break"), Springfield, Mass.**
**Stortz, Jno. T., 210 Vine, Philadelphia, Pa.**
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carrol av, Chicago, Ill.
Washington Cutlery Co. ("Village Blacksmith"), Watertown, Wis.

## 1779— Chisels (Calking)

(See also Tools, Calking)

Anderson, W. H. Tool & Supply Co., Detroit,
Atha Tool Co., Newark, N. J. Mich.
**BERNZ, OTTO (Plumbers'), 21 Ash-**
land av, Newark, N. J. (See adv. index, end of book)
Braunsdorf-Mueller Co., Elizabeth, N. J.
**BUFFUM TOOL CO. Louisiana, Mo.**
(See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
**CLEVELAND PUNCH & SHEAR**
Works Co., Cleveland, O. (See adv. index, end of book)
Drew, C. & Co., Kingston, Mass.
Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mueller, H. Mfg. Co., Decatur, Ill.
Osborne, C. S. & Co., Harrison, N. J.
Starbuck, R. M. & Sons, Hartford, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Washington Cutlery Co., Watertown, Wis.
White, L. & I. J. Co., Buffalo, N. Y.

## 1780—Chisels (Carpenters')

(See also Gouges)

American Axe & Tool Co., Glassport, Pa.
Bergholtz, Strodtz & Co., 2230 Ogden, Chicago, Ill.
**BERNZ, OTTO, 21 Ashland av, New-**
ark, N. J. (See adv. index, end of book)
Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros. (Socket & Tang), Millbury, Mass.
Buck Chas. Edge Tool Co., Millbury, Mass.
Evansville Tool Works, Evansville, Ind.
Falls Mfg. Co. (Round & Flat), San Francisco, Cal.
Greenlee Bros. & Co. ("Reliance"). Railway Exchange bldg, Chicago, Ill.
**HAMMACHER, SCHLEMMER & CO.,**
133 4th av, New York. (See adv. index, end of book)
Hibbard, Spencer, Bartlett & Co. ("O. V. B."), 1 State, Chicago, Ill.
Jennings, C. E. & Co., 42 Murray, New York
Kraeuter & Co. (Ripping), Newark, N. J.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Ohio Tool Co., Columbus, Ohio.
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. (Inc.), F'kd., Phila., Pa.
Rockford Bit Co., Kokomo, Ind.
Russell & Erwin Mfg. Co., New Britain, Conn.
S. & I. Co. ("S. & I."), Springfield, Mass.
Swan, Jas. Co., Seymour, Conn.
White, L. & I. J. Co. (Full Line, Including Socket Duck Bill), Buffalo, N. Y.
Winsted Edge Tool Works ("T. H. Witherby"), Winsted, Conn.
Yale Mfg. Co., Yalesville, Conn.

## 1781—Chisels (Cold & Cape)

Anderson, W. H. Tool & Supply Co., Detroit,
Atha Tool Co., Newark, N. J. Mich.
Beall Bros. (Inc.), Alton, Ill.
Atwater Mfg. Co. (Tool Steel Cold Chisels), Southington, Conn.
**BERNZ, OTTO, 21 Ashland av, New-**
ark, N. J. (See adv. index, end of book)
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Bonner, C. E. Mfg. Co., Chrisman, Ill.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros., Millbury, Mass.
**BUFFUM TOOL CO. ("Swastika"),**
Louisiana, Mo. (See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
Champion Tool Co., Meadville, Pa.
**CLEVELAND PUNCH & SHEAR**
Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co. (Cold, All Shapes), Cleveland, O.
Collins & Co., Collinsville, Conn.
Cronk & Carrier Mfg. Co. (Cold Chisels Only), Elmira, N. Y.
Dicke Tool Co., Downers Grove, Ill.
Drew, C. & Co., Kingston, Mass.
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Elmore Tool Mfg. Co., Hartford, Conn.
Evansville Tool Works, Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481**
Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falls Mfg. Co., 360 Fremont, San Francisco, Cal.
Germantown Tool Works, Gtn, Phila., Pa.
Hammond, C. & Son, Ognotz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Heller Bros. Co., Newark, N. J.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Kilborn & Bishop Co. (Drop Forged), New Haven, Conn.
Klein-Logan Co. (Cold, Hand Clipping). Pitts-
Kraeuter & Co., Newark, N. J. burg, Pa.
Lowentraut, P. Mfg. Co., Newark, N. J.
Marshalltown Trowel Co., Marshalltown, Ia.
Mound Tool & Scraper Co. (Engineers' Chums), St. Louis, Mo.
Mueller, H. Mfg. Co., Decatur, Ill.
Osborne, C. S. & Co., Harrison, N. J.
Oswego Tool Co., Oswego, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Phillips, F. & Son, Baltimore, Md.
Pittsburg Tool & Drop Forge Co. ("Cheswick," Blacksmith, etc.), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Polk, A. J. & Son, Millersburg, Pa.
S. & I. Co., Springfield, Mass.
Sayre, L. A. & Co., Newark, N. J.
Smith, H. D. & Co. ("Sharpen Ezy" "S" Cold & Cape, Drop Forged), Plantsville, Conn.
Snell Mfg. Co. (Cold Chisels Only), Fiskdale, Mass
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
**STRONG MACHINERY & SUPPLY CO.**
("Strong's Specialty"), 48 Franklin, New York. (See adv. index, end of book)
Syracuse Twist Drill Co. (Cold Chisels Only) Syracuse, N. Y
Therien Tool Works, 116 1st av, N Minneapolis, Minn
Tuck Mfg. Co. (Cold Chisels Only), Brockton, Mass
Vaughn & Bushnell Mfg. Co. ("V. & B." Cast Steel), 2130 Carroll av, Chicago, Ill
Verona Tool Works, Pittsburg, Pa., & Verona
Washington Cutlery Co., Watertown, Wis. Pa.
White, L. & I. J. Co., Buffalo, N. J.
**WHITMAN & BARNES MFG. CO.**
(Cold Only), Akron, O. (See adv. index & branch offices, end of book)
Wilcox, Crittenden & Co., (Cold Chisels Only) Middletown, Conn.

## 1782— Chisels (Floor)

Atha Tool Co. (Solid Cast Steel), Newark, N. J.
**BERNZ, OTTO, 21 Ashland av, New-**
ark, N. J. (See adv. index, end of book)
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros., Millbury, Mass.
Buck, Chas., Millbury, Mass.
**BUFFUM TOOL CO. Louisiana, Mo.**
(See adv. index & branch offices, end of book)
Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Krauter & Co., Newark, N. J.
Mueller, H. Mfg. Co., Decatur, Ill.
Osborne, C. S. & Co., Harrison, N. J.
Plumb, Fayette R., Frankfort, Phila., Pa.
S. & I. Co., Springfield, Mass.
Sayre, L. A. & Co., Newark, N. J.
Stortz, Jno. & Son, 200 Vine, Phila., Pa.
Washington Cutlery Co., Watertown, Wis.
White, L. & I. J. Co., Buffalo, N. J.

## 1782a— Chisels (Gasket)

**BUFFUM TOOL CO. Louisiana, Mo.**
(See adv. index & branch offices, end of book)

## 1783—Chisels (Hollow Mortising)

Cleveland Lock Co., Cleveland, O.
Forest City Bit & Tool Co. (Common, Hub, Franking, etc.), Rockford, Ill.
Greenlee Bros. Co., 9 Jackson blvd. Chicago,
Pugh, Job T., 3105 Ludlow, Phila., Pa. Ill.
Wessman Tool Co. ("W"), Rockford, Ill.

## 1784— Chisels (Ice)

(See also Picks, Ice)

American Fork & Hoe Co., Cleveland, O.
Barnes, Wallace Co., Bristol, Conn.
Black, John B. ("Wm. Beatty & Sons," with Socket), Chester, Pa.
Bradley's G. W. Sons (Inc.), Westport, Conn.
Browne & Dowd Mfg. Co. ("B. & D. C."),
Deuse, J. S., Chester, Conn. Meriden, Conn.
Erie Specialty Co., Erie, Pa.
Gifford-Wood Co. (Summer Bars or Packing, etc.), Hudson, N. Y.
Gilchrist Co., Newark, N. J.
Hiles, C. A. & Co. (Chisels, Bars, etc., for Ice Houses), 14th & Western av, Chicago, Ill.
Iowa Farming Tool Co., Fort Madison, Iowa
Landers, Frary & Clark (Steel Blades), New
Mack & Co., Rochester, N. Y. Britain, Conn.
Rocky Hill Hardware Co., Rocky Hill, Conn.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Stortz, John, & Co., 210 Vine, Phila., Pa.
Wagner Mfg. Co., Cedar Falls, Iowa
White, Ira F. & Son Co., Bloomfield, N. J.
Williams, A. C., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## 1785—Chisels (Key Lifting & Seating)

**BUFFUM TOOL CO. Louisiana, Mo.**
(See adv. index & branch offices, end of book)

## 1786— Chisels (Notching)

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 1787—Chisels (Oil Groove)

**BUFFUM TOOL CO. Louisiana, Mo.**
(See adv. index & branch offices, end of book)

## 1788— Chisels (Plumbers')

**BERNZ, OTTO, 21 Ashland av, New-**
ark, N. J. (See adv. index, end of book)
Braunsdorf-Mueller Co., Elizabeth, N. J.
**BUFFUM TOOL CO. Louisiana, Mo.**
(See adv. index & branch offices, end of book)
Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Phillips, F. & Son, Baltimore, Md.
S. & I. Co. ("Never-Break," Calking, etc.), Springfield, Mass.
Sayre, L. A. & Co., Newark, N. J.
Stortz, Jno. & Son, 200 Vine, Phila., Pa.
Washington Cutlery Co., Watertown, Wis.

## 1789—Chisels (Pneumatic)

Cleveland Steel Tool Co. (Blank & Dressed), Cleveland, O.

## 1790— Chisels (Ship)

Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Bradley's, G. W. Sons (Inc.) (With Socket), Westport, Conn.

## 1791—Chisels (Stone Cutters')

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Brunner & Lay, 570 W Polk, Chicago, Ill.
Collins Co., Collinsville, Conn.
**DALLETT, THOS. H. CO., 2300 York,**
Phila., Pa. (See adv. index, end of book)
Doble, Abner Co., San Francisco, Cal.
Evansville Tool Works, Evansville, Ind.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Krauter & Co., Newark, N. J.
Mack & Co., Rochester, N. Y.
Mead, I. V. & Co., 418 E. 110th, New York
Phillips, F. & Son, Baltimore, Md.
Schueddig, F. Son, 525 S Jefferson, St. Louis, Mo.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 1792—Chisels (Tile Setters)

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 1793— Chisels (Track)

Anderson, W. H. Tool & Supply Co., Detroit,
Atha Tool Co., Newark, N. J. Mich.
Beall Bros. (Inc.), Alton, Ill.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481**
Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Heller Tool Co., Newark, N. J.
Hubbard & Co., Pittsburg, Pa.

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Iron City Tool Works (Ltd.), Pittsburg, Pa.
Kalamazoo Ry. Sup. Co., Kalamazoo, Mich.
Klein-Logan Co., Pittsburg, Pa.
McInnes Steel Co. (Ltd.), Corry, Pa.
Plumb, Fayette R., Frankford, Phila., Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Tool Steel), 2130 Carroll av., Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.

## 1794— Chisels (Turning)

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 1795—Chloride (Carbon Tetra)

Niagara Alkali Co., Niagara Falls, N. Y.

## Chlorate of Potash

(See Potash)

## 1796— Chlorate of Soda

North American Chemical Co., Bay City, Mich.

## Chloride of Alumina

(See Alumina)

## Chloride of Barium

(See Barium)

## 1797— Chloride of Calcium

Acme Calcium Works, Pomeroy, O.
Carbondale Calcium Co., Carboudale, Pa.
Dickinson, Jno. Q. & Co., Malden, W. Va.
Elmer & Amend, 205 3d av, New York
Eureka Calcium Works, Pomeroy, O.
Merrimac Chemical Co., Boston, Mass.
Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Pittsburg Calcium Co., N. S., Pittsburg, Pa.
Rhodes, J. H. & Co., 162 W Kinzie, Chicago, Ill.
Roessler & Hasslacher Chemical Co., 100 William, New York
Scheel, Wm. H., 159 Maiden la, New York
Sholes, Chas. E. Co., 164 Front, New York.
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.

## 1798— Chloride of Lime

(See Also Powder Bleaching)

Acme White Lead & Color Wks, Detroit, Mich.
Champion Chemical Works, 19 W Michigan, Chicago, Ill.
Feurst Bros. & Co., 2 Stone, New York
Hirsh, L. & Son, 368 Greenwich, New York
Penn Chemical Works, Phila., Pa.
Pennsylvania Salt Mfg. Co. (For Purifying Water), 115 Chestnut, Phila., Pa.
Platt, H. B., 42 Cliff, New York
Rath Mfg. Co. ("Imperial"), Hedley & Richmond, Phila., Pa.
Thomsen Chemical Co., Baltimore, Md.
United Zinc & Chemical Co., Kansas City, Mo.

## 1799— Chloride of Sulphur

Hooker Electro Chemical Co., 40 Wall, New York; Works: Niagara Falls, N. Y.
Scheel, Wm. H., 159 Maiden la, New York
Speaight, Geo. W., 248 N 10th, Brooklyn, N. Y.
Stamford Rubber Supply Co., Stamford, Conn.

## Chloride of Zinc

(See Zinc Chloride)

## 1800— Chlorination Plants

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 1801— Chlorine

Arnold-Hoffman Co., Providence, R. I.
Castner Electrolytic Alkali Co. (& Chlorine Products), Niagara Falls, N. Y.
**Electro Bleaching Gas Co. (Liquid),** 24 E 21st, New York
General Chemical Co., 25 Broad, New York
General Chemical Co. of Pa., Pittsburg, Pa.
Goldschmidt Detining Co. (Liquid), 60 Wall, New York
Grasselli Chemical Co., Cleveland, O.
Hooker Electrochemical Co., 40 Wall, New York
Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Niagara Alkali Co. (Liquid & By-Products), Niagara Falls, N. Y.

## 1802—Chocks (Boat & Ship)

Wilcox, Crittenden & Co., Middletown, Conn.

## 1803— Choppers (Apple)

Boutell Mfg. Co., Rochester, N. Y.
Hunt Mfg. Co., Sodus, N. Y.
Smith's, Jno. E. Sons Co. ('Buffalo," Silent), Buffalo, N. Y.

## 1804— Choppers (Food)

(See also Choppers, Meat)

American Cutlery Co., 764 Mather, Chicago, Ill.
Athol Machine Co. ("American"), Athol, Mass.
Clauss Shear Works ("Victor," Hand), Fremont, O.
Colebrookdale Iron Co. ("Keystone"), Pottstown, Pa.
Dana Mfg. Co. ("Dana"), Cincinnati, O.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Grace & Colwell Mfg. Co. ("Klean-Cut"), Syracuse, N. Y.
Griswold Mfg. Co. ("Erie"), Erie, Pa.
Hollands Mfg. Co., Erie, Pa.
Hurley, Jno. A. (Inc.) ("Hurwood," "Quality"), Bridgeport, Conn.
Hurst, H. L. Mfg. Co., Canton, O.
Landers, Frary & Clark ("Universal" & "Climax"). New Britain, Conn.
North Bros. Mfg. Co., Phila., Pa.
Peck, Stow & Wilcox Co. ("Ideal," "Favorite"), Southington, Conn.
Penna Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Rollman Mfg. Co., Mt. Joy, Pa.
Russell & Erwin Mfg. Co. ("Russwin"), New Britain, Conn.
Sargent & Co. ("Gem"), New Haven, Conn.
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Smith's, Jno. E. Sons Co. ("Buffalo Silent," Hand or Power), Buffalo, N .Y.
Steinfeld Bros. ("Saxon"), 620 B'way, New York
Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Peerless"), Albany, N. Y.
Universal Hardware Works (Inc.) ("M. A. Rollman's New Standard"), Mt. Joy, Pa.

## 1805— Choppers (Meat)

(See also Choppers, Food)

Athol Machine Co. ("American," for Hotels, Families, Butchers, etc.), Athol, Mass.
Clauss Shear Co. ("Victor" Hand Chopper), Fremont, O.
Colebrookdale Iron Co. ("Keystone"), Pottstown, Pa.
Dana Mfg. Co. ("Dana," "Keystone"), Cincinnati, O.
Deer, A. J. Co. ("Royal" Electric), Hornell, N. Y.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Landers, Frary & Clark ("Universal"), New Britain, Conn.
Murray Iron Works Co. (Draw-Cut Power & Hand & "Zimmerman & Iowa" Noiseless & "Schwahn" Rocker), Burlington, Ia.
Peck, Stow & Wilcox Co. ("Ideal" Family), Southington, Conn.
**Perkins Wind Mill Co., Mishawka, Ind.**
Rollman Mfg. Co., Mt. Joy, Pa.
Russell & Erwin Mfg. Co. ("Russwin"), New Britain, Conn.
Sargent & Co. ("Gem"), New Haven, Conn.
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Smith's, Jno. E. Sons Co. ("Buffalo Silent," Hand or Power), Buffalo, N. Y.
Steigert, Leopold (Also for Food, Belt Power), Elder & Logan, Cincinnati, O.
Steiner Mfg. Co. (Electric), St. Louis, Mo.
Steinfeld Bros. ("Saxon"), 620 B'way, New York
Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Peerless"), Albany, N. Y.
Universal Hardware Works (Inc.) ("M. A. Rollman's New Standard"), Mt. Joy, Pa.

## 1806—Choppers (Sidewalk Ice)

White, L. & I. J. Co., Buffalo, N. Y.

## 1807— Chrome Oxide

Roessler & Hasslacher Chemical Co. (Green), 100 William, New York
Sholes, Chas. E. Co., 164 Front, New York.

## 1808— Chromium

Goldschmidt Thermit Co., 90 West, New York
Roessler & Hasslacher Chemical Co., 100 William, New York

## 1809— Chronographs

Baird Mfg. Co., 3145 N Halstead, Chicago, Ill.
Barrett & Lawrence (Inc.) (Hydrographic), Bullitt bldg, Phila., Pa.
Bausch & Lomb Optical Co., Rochester, N. Y.
Du Vivier, Ernest H., 30 Church, New York
International Instrument Co., 23 Church, Cambridge, Mass.
Stromberg Electric Mfg. Co. ("Stromberg"), 1252 Marianna Chicago, Ill.

## 1810— Chronometers

Bliss, Jno. & Co. (Nautical, etc.), 128 Front, New York
Bond, Wm. & Son (Marine, Sidereal & Electric Break Circuit), 4 Congress, Boston, Mass.
Riggs & Bro. (Nautical, etc.), 310 Market, Phila., Pa.

## 1811— Chucks (Automatic)

Garvin Machine Co., 137 Varick, New York

## 1812—Chucks (Boring & Turning Mill)

Horton, E. & Sons Co., Windsor Locks, Conn.
Union Mfg. Co. ("Union"), New Britain, Conn.
Westcott Chuck Co., Oneida, N. Y.

## 1813— Chucks (Brace)

Braunsdorf-Mueller Co., Elizabeth, N. J.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 1814—Chucks (Car Wheel)

Hoggson & Pettis Mfg. Co. ("Sweetland"), New Haven, Conn.
Horton, E. & Son Co., Windsor Locks, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Skinner Chuck Co., New Britain, Conn.
Union Mfg. Co. ("Union"), New Britain, Conn.
Westcott Chuck Co., Oneida, N. Y.

## 1815— Chucks (Centering)

Cushman Chuck Co., Hartford, Conn.
Horton, E. & Son Co., Windsor Locks, Conn.
Skinner Chuck Co., New Britain, Conn.
Union Mfg. Co., New Britain, Conn.
Westcott Chuck Co., Oneida, N. Y.
Whiton, D. E. Machine Co., New London, Conn.

## 1816— Chucks (Drill)

Almond, T. R. Mfg. Co. ("Almond" Inclosed Pinion), Ashburnham, Mass.
**Andrew, M. L. & Co.,** Cincinnati, O.
Brown, R. H. & Co. ("The Reid"), New Haven, Conn.
Canedy, Otto Mfg. Co., Chicago Heights, Ill.
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M. (For Straight Shank Drills), Tolland, Conn.
Cushman Chuck Co., Hartford, Conn.
**DETROIT TWIST DRILL CO.** ("Graham"), Detroit, Mich. (See adv. index, end of book)
Goodell Mfg. Co., Greenfield, Mass.
Goodell-Pratt Co., Greenfield, Mass.
Gronkvists Drill Chuck Co. ("Gronkvists"), Jersey City, N. J.
Hoefer Mfg. Co., Freeport, Ill.
Hoggson & Pettis Mfg. Co. ("Sweetland"), New Haven, Conn.
Horton, E. & Son Co. ("Horton"), Windsor Locks, Conn.
Horton, S. E. Machine Co., Windsor Locks, Conn.
Jacobs Mfg. Co. ("Jacobs"), Hartford, Conn.
McCroskey Reamer Co. ("Quick Change," "Wizard"), Meadville, Pa.
Millers Falls Co. ("Barber"), 28 Warren, New York; Works: Millers Falls, Mass.
Modern Tool Co. ("Magic," also for Reamers & Counterbores, Taps, etc.), Erie, Pa.
Morrow Mfg. Co. ("Morrow," Hand Operated, Ball Bearing), Elmira, N. Y.
**MORSE TWIST DRILL & MACHINE** Co. ("Beach," "Stetson" & Center Drill), New Bedford, Mass. (See adv. index, end of book)

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North Bros. Mfg. Co. ("Yankee"), Lehigh av & American, Phila., Pa.
Oneida National Chuck Co. ("National," Blacksmiths', etc.), Oneida, N. Y.
Pratt Chuck Co. ("Empire" Driving Drill Chucks, etc.), Frankfort, N. Y.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Radical Angular Drill & Tool Co. (For Square Holes), 114 Liberty, New York
Russell Anti-Friction Drill Chuck Co., Elmira, N. Y.
Saunders, D. Sons (Also Tap), Yonkers, N. Y.
Skinner Chuck Co., New Britain, Conn.
Standard Machinery Co. ("Colt", "Twentieth Century"), Mystic, Conn.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Trump Bros. Machine Co., Wilmington, Del.
Union Mfg. Co. ("Czar," "Union" Geared), New Britain, Conn.
Victor Tool Co. ("Victor"), Waynesboro, Pa.
Weaver Mfg. Co. ("Weaver's" Roller Jaw), Springfield, Ill.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Westcott Chuck Co. ("The Westcott," "Oneida" & "Little Giant"), Oneida, N. Y.
**WHITMAN & BARNES MFG. CO.,** ("Economy," "Norka"), Akron, O. (See adv. index & branch offices, end of book)
Whitney Mfg. Co. ("Presto"), Hartford, Conn.
Whiton, D. E. Machine Co., New London, Conn.
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 1817—Chucks (Expanding)

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

## 1818— Chucks (Grinder)

Graham Mfg. Co., Providence, R. I.

## 1819— Chucks (Jaw)

**CLEVELAND TWIST DRILL CO.** (Two Jaw). Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Cushman Chuck Co., Hartford, Conn.
**Fray, Jno. S. Co. Inc. (Three Jaw), Bridgeport Conn.**
Hoggson & Pettis Mfg. Co. ("Sweetland" Two-Jaw Slip Jaw), New Haven, Conn.
Horton, E. & Son Co. (Reversible), Windsor Locks, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Putnam Machine Co., Fitchburg, Mass.
Saunders, D. Sons, Yonkers, N. Y.
Union Mfg. Co. ("Union"), New Britain, Conn.
Warner & Swasey Co. (Box & Revolving), 5809 Carnegie, S. E., Cleveland, O.
Weaver Mfg. Co. ("Weaver's" Roller), Springfield, Ill.
Whiton, D. E. Machine Co., New London, Conn.

## 1820— Chucks (Lathe)

Cushman Chuck Co., Hartford, Conn.
Hoggson & Pettis Mfg. Co. ("Sweetland"), New Haven, Conn.
Horton, E. & Son Co., Windsor Locks, Conn.
Jacobs Mfg. Co. ("Jacobs"), Hartford, Conn.
Leavitt Machine Co., Orange, Mass.
Millers Falls Co. ("Barber"), 28 Warren, New York
Modern Tool Co. (Draw Sleeve), Erie, Pa.
Oneida National Chuck Co., Oneida, N. Y.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Skinner Chuck Co., New Britain, Conn.
Union Mfg. Co., New Britain, Conn.
Westcott Chuck Co. (The Westcott Combination, "I. X. L.," Independent, Universal & Eccentric), Oneida, N. Y.
Whiton, D. E. Machine Co., New London, Conn.

## 1821— Chucks (Lever)

Potter & Johnson Machine Co. ("Universal Automatic"), Pawtucket, R. I.
Saunders, D. Sons, Yonkers, N. Y.

## 1822— Chucks (Magnetic)

**Walker, Oakley S. & Co., Worcester, Mass.**

## 1823—Chucks (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
Horton, E. & Son Co., Windsor Locks, Conn.
Oneida National Chuck Co. ("Jordon"), Oneida, N. Y.
Owen Machine Tool Co., Springfield, O.
Union Mfg. Co. ("Union"), New Britain, Conn.

## 1824— Chucks (Nipple)

Bignall & Keeler Mfg. Co., Edwardsville, Ill.
Glauber, M. & Co., 10 Christopher, New York
Jorecki Mfg. Co., Erie, Pa.
**MURCHEY MACHINE & TOOL CO.** ("Quick-Acting"), Detroit, Mich. (See adv. index, end of book)
National Nipple Chuck Co., Boston, Mass.
Plumbers' Sundries Co. ("Banner"), 442 Orleans, Chicago, Ill.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.

## 1825—Chucks (Oval Turning)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index, end of book)

## 1826— Chucks (Planer)

Cincinnati Planer Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.
Harrington, Edwin & Son Co., 17th & Callowhill, Phila., Pa.
New Haven Mfg. Co., New Haven, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Redin, Ekstrom & Co. (For Planers, Shapers, Milling Machines & Drills), Rockford, Ill.
Reed, Francis Co., Worcester, Mass.
Skinner Chuck Co., New Britain, Conn.
Union Mfg. Co. ("Union"), New Britain, Conn.

## 1827— Chucks (Projectile)

Union Mfg. Co. ("Union"), New Britain, Conn.

## 1827a—Chucks (Quick Acting Flange)

**MURCHEY MACHINE & TOOL CO.,** 52 Porter, cor. 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)

## 1827b—Chucks (Quick Acting, Revolving, Fitting & Flange)

**MURCHEY MACHINE & TOOL CO.,** 52 Porter, cor. 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)

## 1828—Chucks (Revolving)

Scott & Sons Co. ("Ess-Ess"), Medford, Mass

## 1829—Chucks (Ring Wheel)

Gardner Machine Co., Beloit, Wis.

## 1830—Chucks (Screw Machine)

Errington, F. A. (Auto Opening), 39 Cortlandt, New York
Garvin Machine Co., 137 Varick, New York
Horton, E. & Son Co., Windsor Locks, Conn.
New Haven Mfg. Co., New Haven, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Putnam Machine Co., Fitchburg, Mass.
Union Mfg. Co., New Britain, Conn.
Westcott Chuck Co. ("Westcott Little Giant"), Oneida, N. Y.

## 1831— Chucks (Scroll)

Goodell-Pratt Co., Greenfield, Mass.
Hoggson & Pettis Mfg. Co. ("Sweetland" Geared), New Haven, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Skinner Chuck Co., New Britain, Conn.
Union Mfg. Co. ("Union" Geared, etc.), New Britain, Conn.
Westcott Chuck Co., Oneida, N. Y.
Whiton, D. E. Machine Co., New London, Conn.

## 1832—Chucks (Sheet Metal Spinning)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 1833— Chucks (Spinning)

Hay-Budden Mfg. Co. (Forged Tool Steel), 254 N Henry, Brooklyn, N. Y.
Hoggson & Pettis Mfg. Co. ("Sweatland" Geared), New Haven, Conn.

## 1834— Chucks (Split)

**AMES, B. C. & CO., Waltham, Mass.** (See adv. index, end of book)
Hardinge Bros., 3135 N Lincoln, Chicago, Ill.
Rivett Lathe Mfg. Co. (Self-Centering), Brighton, Boston, Mass.
Sloan & Chace Mfg. Co., Newark, N. J.

## 1835— Chucks (Spring)

Brown & Sharpe Mfg. Co., Providence, R. I.
Clough, R. M., Tolland, Conn.

## 1836— Chucks (Tapping)

Errington, F. A. (Auto Reverse), 39 Cortlandt, New York
Horton, E. & Son Co., Windsor Locks, Conn.
Modern Tool Co. ("Magic"), Erie, Pa.
National Tool Co., Cleveland, O.
Pawtucket Tool Co. (Inc.) ("Thompson" Automatic), Pawtucket, R. I.
Victor Tool Co. ("Victor"), Waynesboro, Pa.
**WELLS BROS. CO. ("Little Giant"** Bolt Cutters), Greenfield, Mass. (See adv. index & branch offices, end of book)
Westcott Chuck Co., Oneida, N. Y.
Whitney Mfg. Co., Hartford, Conn.
Woodstock Safety Chuck Co., Woodstock, Ill.

## 1837—Chucks (Twist Drill)

Andrew, M. L. & Co., Cincinnati, O.
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book) Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)
Horton, E. & Son Co., Windsor Locks, Conn.
**MORSE TWIST DRILL & MACHINery Co.,** New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Oneida National Chuck Co., Oneida, N. Y.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Mfg. Co. ("Union"), New Britain, Conn.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 1838—Chucks (Wire or Wheel)

Hardinge Bros., 3135 N Lincoln, Chicago, Ill.
Waltham Watch Tool Co., Springfield, Mass.
Welch, T. F. Co., 55 Sudbury, Boston, Mass.

## 1839—Chucks & Chuck Blanks

Waterbury Brass Co., Waterbury, Conn.

## Church Seating

(See Furniture, Church)

## 1840—Church Spires Repaired

Wightman, Andrew, Peekskill, N. Y.

## 1841— Churn Dashers

Piqua Handle & Mfg. Co., Piqua, O.

## 1842— Churns

(See also Dairy Apparatus & Supplies)

American Wooden Ware Mfg. Co. ("Magic," "Easy," "Compound Lever," "Hero" and "Charm" Barrel; "Union," "American," "Dasher"), Toledo, O.
Aquatic Cream Separator Co. ("Eureka," Barrel Revolving), Rockford, Ill.
Babcock, W. W. & Co., Bath, N. Y.
Bing, Jno. ("R. V. Hunersdorff Nache," Family), 381 4th av, New York
Brown, M. Co. ("Bent Wood" Ash Dash), Wapakoneta, O.
Buckeye Churn Co. ("Buckeye," Ash Dash), Sidney, O.
Burrell, D. H. & Co. (Power, etc., for Creameries, etc.), Little Falls, N. Y.
Creamery Package Mfg. Co. ("Dairy Box" "Rectangular," "C. P.," Box Factory, 61 W Kinzie, Chicago, Ill.
Dazey Churn Mfg. Co. ("Dazey," & Glass Family), St. Louis, Mo.
Dobson Mfg. Co. ("Favorite," Barrels, Revolving, 6 to 90 gallons), Rockford, Ill.
Enterprise Enamel Co. (Enameled Steel), Bellaire, O.
Fargo Creamery Supply House, Lake Mills, Wis.
Fayetteville Wooden Ware Co., Fayetteville, N. C.
Fenner, Christo C. ("Fenner's Revolving Six-Sided), South Stockton, N. Y.
Goshen Churn & Ladder Co., Goshen, Ind.
Hall Bros. ("Blanchard"), West Acton, Mass.
Jones, Frank L. ("Jones"), Utica, N. Y.
Lisk Mfg. Co. (Ltd.) ("Lisk" Anti-Rust Tinware), Canandaigua, N. Y.

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McDermaid, J. ("Belle," "Star," White Oak, Barrel Revolving, Power, etc., 10 to 100 Gallons), Rockford, Ill.
**Mason Mfg. Co., Canton, O.**
**One Minute Mfg. Co., Newton, Ia.**
Page & Hill (Dairy & Creamery), Brasher Falls, N. Y.
**Palmer, H. H. Co. ("Acme," "Boss," "Fairy," Ideal Barrel Revolving, etc.), Rockford, Ill.**
***Reid, A. H. Creamery & Dairy Supply Co.** (Barrel Revolving & Box Factory), 69th & Haverford, Phila., Pa.
Standard Churn Co. "Standard," Anti-Bent-wood Barrel, Revolving; Box Factory, Ash Dash, up to 12 Gallons), Wapakoneta, O.
Sturges & Burn Mfg. Co. (Steel), 508 S Green, Chicago, Ill.
Superior Churn & Mfg. Co. ("Superior," Stone-ware Barrel, Glass Top), Northville, Mich.
**Vermont Farm Machine Co. ("Davis," Swing,** Cypress, Oak & Pine), Bellows Falls, Vt.
Weber-Kirch Mfg. Co., Keokuk, Ia.

## 1843—Churns (Box Factory)

Burrell, D. H. & Co. ("B. & W."), Little Falls, N. Y.
Creamery Package Mfg. Co. ("C.-P."), 61 W Kinzie, Chicago, Ill.
Fargo Creamery Supply House ("Fargo"), Lake Mills, Wis.
Reid, A. H. Creamery & Dairy Supply Co. ("Reid's"), Phila., Pa.
Vermont Farm Machine Co. ("V. F. M."), Bellows Falls, Vt.

## 1844— Chutes (Coal)

American Coal Chute Co., Newark, N. J.
American Specialty Mfg. Co. ("Model" Burglar Proof, Also for Wood & Vegetables, Also Flush Sidewalk Chutes), Manitowoc, Wis.
**ARCHER IRON WORKS CO., 34th** pl & Western av. Chicago, Ill. (See adv. index, end of book)
Barber Mfg. Co., Ashtabula, O.
Bushnell Tank Works, Bushnell. Ill.
**CANTON FOUNDRY & MACHINE CO.** (Window), Canton, O. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Consolidated Iron Works, Hoboken. N. J.
Covert, H. W. Co. (Iron Coal Windows), 168 Duane. New York
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg. Pa. (See adv. index & branch offices, end of book)
Desmond Mfg. Co., Edwardsville, Ill.
Eagle Iron Works (For Mines), Des Moines. Ia.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv index & branch offices, end of book)
**Fairmont Mining Machinery Co. (For Mines), Fairmont, W. Va.**
**Grand Rapids Foundry Co. ("Roenius," one piece steel), Grand Rapids, Wis.**
**Helmick Foundry & Machine Co., Fairmont.**
**Hendrick Mfg. Co., Carbondale, Pa. W. Va.**
Herron-Webb Engineering Co. (Chutes & Screens Combined), Monongahela, Pa.
Holland Furnace Co., Holland, Mich.
Holmes, Robt. & Bros. (Mine Run), Danville, Ill.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
Indiana Foundry Co., Indiana, Pa.
**JEFFREY MFG. CO. (Chutes &** Screens Combined), Columbus, O. (See adv. index & branch offices, end of book)
Kelly Mfg. Co., Waterloo. Ia.
Kewanee Foundry & Mfg. Co. (All Steel), Kewanee, Ill.
Koller, E. L. (Steel), Newark, N. J.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Lane, W. T. & Bro., Poughkeepsie, N. Y.
Lansing Wheelbarrow Co., Lansing, Mich.
McCullough Iron Co., Wilmington, Del.
McDermott Engineering Co., Allentown, Pa.
**Majestic Furnace & Foundry Co. ("Majes-tick," "Model," "Pittsburgh" for Coal, Wood, Vegetables, etc.), Huntington, Ind.**
National Boiler & Sheet Iron Works (Ash & Coal), Indianapolis, Ind.
National Mfg. Co. ("Best"), Sterling. Ill.
Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.
**RIESECK, P., Allegheny av & Re-**becca, N S, Pittsburg, Pa. (See adv. index, end of book)
Sackett Screen Co., Fredonia, N. Y.
**SCAIFE, WM. B. & SONS CO., Pitts-**burg, Pa. (See adv. index, end of book)
Sheet Metal & Supply Co., Lancaster, Pa.
Sterling Foundry Co. ("Best," Fuel Chute), Sterling, Ill.
Taylor Coal Chute & Mfg. Co. ("Taylor" Folding Window), Kewanee, Ill.
Teller, R. K., Unadilla, N. Y.
Union Iron Works, Hoboken, N. J.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 1845—Chutes (Coal, Locomotive Coaling, Etc.)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dempey-Degener Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Stebbings, W. L. Monadnock blk, Chicago, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Williams, White & Co., Moline, Ill.

## 1845a—Chutes (Concrete)

**INSLEY MFG. CO. (Open, Closed &** Flexible, with Accessories), Indianapolis Ind. (See adv. index & branch offices, end of book)

## 1846— Chutes (Package)

American Metal Stamping Co., 20 E Herman, Phila., Pa.
Herrman & Grace, 671 Bergen. Brooklyn, N. Y.

## 1847— Chutes (Sand)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av. Chicago, Ill. (See adv. index & branch offices, end of book)
Helmick Foundry & Machine Co., Fairmont, W. Va.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 1848— Chutes (Spiral)

**LINK BELT COMPANY (For Pack-age Handling in Department Stores, etc.), Hunting Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)**

## 1849—Chutes (Spiral Lowering)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 1850—Chutes (Steel Plate)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Grand Rapids Foundry Co. (For Cases, Boxes, etc.), Grand Rapids, Mich.
**PITTSBURG CONVEYING MACHIN-**ery Co., Pittsburg, Pa. (See adv. index, end of book)

## 1851—Cigar Box & Cigar Makers' Supplies

**GRAMMES, L. F. & SONS, Allentown,** Pa. (See adv. index, end of book)
National Selling Co., Allentown, Pa.

## 1851a—Circles (Platform)

Akron-Selle Co. (For Wagons, Trucks, etc.), Akron, O.

## 1852— Circles (Tin)

Horan Stay Hanger Co., Louisville, Ky.

## 1852a— Circus Lights

**MILBURN, A. ALEX. CO. ("Milburn"** Self-Contained Portable Acetylene), Lombard & Green, Baltimore, Md. (See adv. index, end of book)

## 1853— Cisterns

Harry Bros. Co. (Corrugated Galvanized Steel), Newport, Ky., & New Orleans, La.

## 1854—Civil Engineers' Field & Office Supplies

**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)
**SOLTMANN E G**
(Also Blue or Black Prints made from Large Tracings of County and Other Maps), 134 W 29th, New York City. (See adv. index, end of book)

## 1855—Clamp & Hand Vise (Combined)

Billings & Spencer Co., Hartford, Conn.

## 1856—Clamps (Adjustable)

**Adjustable Clamp Co. ("Jorgeson" Hand** Screw), 216 N Jefferson, Chicago, Ill.
**Batavia Clamp Co., Batavia, N. Y.**
Billings & Spencer Co. ("Gardner" & "Miller"), Hartford, Conn.
**Cincinnati Tool Co. ("Hargrave"), Norwood, Cincinnati, O.**
Dann Bros. & Co. (Wood Workers), New Haven, Conn.
**Grand Rapids Wood Carving Co., Grand Rapids, Mich.**
**Hammer & Co. ("Hammer"), Branford. Conn.**
**INSLEY MFG. CO. (Concrete Form),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
Mark Mfg. Co., Evanston, Ill.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Sheldon, E. H. & Co., 312 N May, Chicago, Ill.
Smith & Egge Mfg. Co. ("Giant"), Bridgeport, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Tatum, Sam'l C. Co., Cincinnati, O.
**TAYLOR, JAS. L. MFG. CO. (Self-Locking** Screw), Poughkeepsie, N. Y. (See adv. index, end of book)

## 1857— Clamps (Anchor)

**OIL WELL SUPPLY CO., 215 Wa-**ter, Pittsburg, Pa. (See adv. index, end book)

## 1858— Clamps (Bar)

Sheldon, E. H. & Co. ("Sheldon's" Tempered Spring Steel), 312 N May, Chicago, Ill.

## 1859— Clamps (Basin)

American Pin Co., Waterbury, Conn.
Blessing, C. A., Philadelphia, Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Central Brass Mfg. Co., Cleveland, O.
**Climax Specialty Co. ("Crescent"), Ann Arbor,** Mich.
Clow, J. B. & Son, 342 Franklin, Chicago, Ill.
Colwell Lead Co. (Plumbers' "Joy"), 109 Lafayette, New York
Fee & Mason (The "Crescent"), 81 Beekman, New York
Glauber Brass Mfg. Co. (Magic), Cleveland, O.
Grabler Mfg. Co. (Adjustable), Cleveland, O.
Haines, Jones & Cadbury Co. ("Crescent"), 1140 Ridge av, Phila., Pa.
Hamden Brass Co., Springfield, Mass.
**Haydenville Co., Haydenville, Mass.**
Hoffman-Billings Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
McCambridge & Cooper Co., 1433 Walnut, Phila., Pa.
McNab & Harlin Mfg. Co., 56 John, New York
Mott, J. L. Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co. (Ball Bearing), Decatur, Ill.
Park & McKay Co., 55 Bagley, Detroit, Mich.
Peck Bros. & Co., New Haven, Conn.
**Rundle-Spence Mfg. Co., Milwaukee, Wis.**

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Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins, E. Mfg. Co., Springfield, Mass.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Taylor, Geo. 99 Cliff, New York.
Trenton Brass & Machine Co., Trenton, N. J.
Union Iron Works, Trenton, N. J.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
Waterbury Mfg. Co., Waterbury, Conn.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Wolverine Brass Works ("Never-Slip," "Star"), Grand Rapids, Mich.

## 1860— Clamps (Beam)

(See also Clamps, Pipe; also Clamps, Conduit Pipe Hanging)

Austin & Eddy, 117 Broad, Boston, Mass.
**BROWN, A. & F. CO. (For Power),** 172 Fulton, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Cresson, Geo. V. Co. (For Power), Allegheny av, W of 17th, Phila., Pa.
Falls Clutch & Mach'y Co., Cuyahoga Falls, O.
Fee & Mason, 81 Beekman, New York
General Fire Extinguisher Co., Providence, R. I.
Grabler Mfg. Co. (I Beam Adjustable, etc.), Cleveland, O.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co. ("K. & J. Co.," Adjustable, etc., Malleable Iron), Pittsburg, Pa.
Penna. Engineering Co., 1119 N. Howard, Phila., Pa.
Reed Mfg. Co. ("The Clark"), Erie, Pa.
**SIMMONS, JNO. CO., 110 Centre, New York. (See adv. index, end of book)**
**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.

## 1861—Clamps (Beam Hoisting)

**DOBBIE FOUNDRY & MACHINE CO.** (For Lifting Steel Beams), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**UNION ELEVATOR & MACHINE CO.** (For Lifting Steel Beams, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 1862— Clamps (Belt)

(See also Belt Tighteners)

Akron Belting Co., Akron, O.
Billings & Spencer Co. (The "Gardner & Miller"), Hartford, Conn.
Boston Bolt & Iron Co., 40 Farnsworth, Boston, Mass.
**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index, end of book)**
Dodge Mfg. Co., Mishawaka, Ind.
Goodell-Pratt Co. ("Farley's"), Greenfield, Mass.
Greene-Tweed & Co. ("Weston's"), 109 Duane, New York
Hoggson & Pettis Mfg. Co. ("Porter"), New Haven, Conn.
Page Belting Co. (Wood), Concord, N. H.
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)**

## 1863— Clamps (Boat)

Malleable Iron Fitting Co., Branford, Conn.
New London Vise Works (Wood End), New London, Conn.
**TAYLOR, JAS. L. MFG. CO. (Quick-**Adjustable, Self-Locking Steel Bar), Poughkeepsie, N. Y. (See adv. index, end of book)

## 1864—Clamps (Boilermakers')

Henderer's, A. L. Sons (Heavy Steel, also for Structural Iron Works), Wilmington, Del.
Le Count, Wm. G. (Light & Heavy Steel), South Norwalk, Conn.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Niles-Bement-Pond Co., 111 B'way, New York
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**TAYLOR, JAS. L. MFG. CO. (Quick-**Adjusting, Self-Locking Steel Bar), Poughkeepsie, N. Y. (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.

## 1865—Clamps (Bolt, Pearson King)

Pearson Jack Co., Boston, Mass.

## 1866—Clamps (Brake Beam)

Gould Coupler Co., 345 5th av, New York
Pearson Jack Co. ("Goodwin"), Boston, Mass.

## 1867—Clamps (Brick Carriers')

(See also Brick Handlers)

Duplex Mfg. & Foundry Co. ("Duplex"), Cleveland, O.
Mostberger Iron Co. ("Cleveland"), Buffalo, N. Y.
Stevens, Frederic B., Detroit, Mich.
Union Specialty Mfg. Co., Pittsburg, Pa.

## 1868— Clamps (Bridge)

Le Count, Wm. G. (Steel), South Norwalk, Conn.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index, end of book)
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie,** N. Y. (See adv. index, end of book)

## 1869— Clamps ("C")

Armstrong Bros. Tool Co. (Drop Forgd Steel), 339 N Francisco av, Chicago, Ill.
Billings & Spencer Co. ("Billings" Drop Forged Steel), Hartford, Conn.

## 1870—Clamps (Cabinet Makers' & Carpenters')

Aldrich, Wm. K. Co., 587 Dutton, Lowell, Mass.
Batavia Clamp Co. (Steel Bar), Batavia, N. Y.
Bliss, R. Mfg. Co., Pawtucket, R. I.
Brown Specialty Machinery Co. ("Todd," Screw), Clinton & Jackson blvd, Chicago, Ill.
Buckeye Mfg. Co., Anderson, Ind.
Christiansen, C., 2219 Grand av, Chicago, Ill.
Cincinnati Tool Co. ("Hargrave" Steel Joiners, etc.), Norwood, Cincinnati, O.
Dann Bros. & Co., New Haven, Conn.
Dayton Malleable Iron Co. ("Dayton"), Dayton, O.
Erie Stamping & Mfg. Co. (Adjustable), Erie, Pa.
**Grabler Mfg. Co. (Adjustable), Cleveland, O.**
Grand Rapids Hand Screw Co. ("Hanson," "Benedict," also Carvers), Grand Rapids, Mich.
**HAMMACHER, SCHLEMMER & CO., 133** 4th av, New York. (See adv. index, end of book)
Handy Mfg. Co., 42 Madison, Chicago, Ill.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Josef, E. E. Mfg. Co. ("Buffalo" Universal Handy Bench Clamp), Buffalo, N. Y.
Mark Mfg. Co., Evanston, Ill.
Ohio Tool Co., Columbus, O.
Oliver Machinery Co., Grand Rapids, Mich.
Palmer, Albert E. & Sons (Furniture), Owosso, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hardware & Mfg. Co., Homer, N. Y.
Sandusky Tool Co., Sandusky, O.
Smith, Otis A., Rock Fall, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Swineford, G. A. Co., Canton, O.
Tatum, Samuel C. & Co. (Automatic & "Never-break"), Cincinnati, O.
**TAYLOR, JAS. L. MFG. CO. (Adjust-**able & Self-Locking), Poughkeepsie, N. Y. (See adv. index, end of book)
Woodruff, W. W. & Sons Co., Mount Carmel, Conn.
Wrightsville Hardware Co., Wrightsville, Pa.

## 1871— Clamps (Cable)

**STAR EXPANSION BOLT CO.** ("Sebco"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention
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## 1872—Clamps (Cable Supporting)

**DIAMOND EXPANSION BOLT CO.** ("Long Saut"), 90 West, New York. (See adv. index & branch offices, end of book)
Fountain, Jno. Jr., 29 Murray, New York
Matthews, W. N. & Bro. ("Matthews"), 219 N 2d, St. Louis, Mo.
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 1873— Clamps (Column)

Cincinnati Tool Co. ("Hargrave"), Norwood, Cincinnati, O.
**INSLEY MFG. CO. (Adjustable Steel** Form), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Loetscher, Ryan Mfg. Co. ("Noxall"), Dubuque, Ia.
**TAYLOR, JAS. L. MFG. CO., Pough-**keepsie, N. Y. (See adv. index, end of book)

## 1873a—Clamps (Concrete Construction)

Batavia Clamp Co. ("Colt's" Self-Locking), Batavia, N. Y.
Chicago Builders' Specialties Co. ("A. B. C." Form Clamps), 84 Van Buren, Chicago, Ill.
Dietrichs Clamp Co. ("Dietrichs" Wall Form Clamp), Little Ferry, N. J.
**INSLEY MFG. CO. (Adjustable Steel** Form), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Ka-De Cement Clamp Co., 184 Lasalle, Chicago, Ill.
Sullivan, J. H., Grand Rapids, Mich.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)

## 1874—Clamps (Conduit Pipe Hanging)

Ajax Line Material Co. ("Staples"), So. Milwaukee, Wis.
Bissell, F. Co. ("Security"), Toledo, O.
Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.
Grabler Mfg. Co., Cleveland, O.
Irish, W. F. Elec. Co. ("Shamrock"), 60 Cortlandt, New York
Pass & Seymour, Solvay, N. Y.
Steel City Electric Co. (Beam Straps), Pittsburg, Pa.
Thomas & Betts Co. (Box Hanger), 299 B'way, New York

## 1875— Clamps (Corner)

Stearns, E. C. & Co., Syracuse, N. Y.

## 1876—Clamps (Curtain Frame)

Hardware & Woodenware Mfg. Co., 693 B'way, New York

## 1877— Clamps (Desk)

American Brass & Copper Co., 138 Lafayette, New York

## 1878—Clamps (Dock Builders')

**TAYLOR, JAS. L. MFG. CO., Pough-**keepsie, N. Y. (See adv. index, end of book)

## 1879— Clamps (Door)

American Woodworking Machinery Co., Rochester, N. Y.
Dauber, C. G. Machine Co. ("Dauber" Upright Automatic, Oshkosh, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.; Factory: Rockford, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith, H. B. Machine Co., Smithville, N. J.
Stearns, E. C. & Co. ("Stearns," Adjustable), Syracuse, N. Y.
**TAYLOR, JAS. L. MFG. CO., Pough-**keepsie, N. Y. (See adv. index, end of book)
Willshire Clamp Co. (Carpenters' "Ever Ready"), Willshire, O.

## 1880—Clamps (Eccentric Wire)

Smith, Otis A. (For Tightening Wire Fence, Telephone Wire, etc.), Rockfall, Conn.

## 1881— Clamps (Electric)

Dicke Tool Co., Downers Grove, Ill.
Smith, Otis A. (For Wire, etc.), Rockfall, Conn.

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## 1882– Clamps (Fitters')

Le Count, Wm. G. (Steel), South Norwalk, Conn.
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 1883–Clamps (Flanging)

**CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O.** (See adv. index, end of book)
Cockburn Co., Jersey City, N. J.
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
McCrea, Jas. & Co. ("Model" to Stop Leaks Between Flanges), 558 W Washington, Chicago, Ill.
**MacKINNON BOILER & MACHINE CO., Bay City, Mich.** (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.

## 1884– Clamps (Flask)

(See also Foundry Facings & Supplies)

Barnett, Oscar Foundry Co., Newark, N. J.
Brass Founders' Supply Co., Newark, N. J.
Brown Specialty Machinery Co. ("Todd"), 542 W Jackson blvd, Chicago, Ill.
Buckeye Products Co., Cincinnati, O.
Cleveland Fillet Co., Cleveland, O.
Dayton Malleable Iron Co., Dayton, O.
Diamond Clamp & Flask Co., Richmond, Ind.
Grand Rapids Hand Screw Co. (Wood Screw), Grand Rapids, Mich.
Josef, E. E. Mfg. Co., Buffalo, N. Y.
Milwaukee Foundry Supply Co. (Adjustable), Milwaukee, Wis.
Nicholls, Wm. S., 253 B'way, New York
Sandusky Tool Co. (Brass Moulders), Sandusky, Ohio
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 1885– Clamps (Flooring)

(See also Clamps, Cabinetmakers', etc.)

Buckeye Mfg. Co., Anderson, Ind.
Hardware Specialty Mfg. Co. ("Clyod"), Penn Hardware Co., Reading, Pa. derson, Ind.
Stearns, E. C. & Co., Syracuse, N. Y.

## 1886– Clamps (Girder)

Wrigley, Thos. Co., 88 Michigan av, Chicago, Ill.

## 1887–Clamps (Ground Connection)

American Metal Works ("American" Adjustable), Gtn, Phila., Pa.
Blackburn Specialty Co. ("Blackburn"), Cleveland, O.
Cameron Appliance Co. ("McCoy"), Everett. Mass.
Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.
Fairmont Electric Mfg. Co. ("Bulldog," "Vogel"), 2203 Pearl, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gillette-Vibber Co. ("G-V"), New London, Conn.
Heinemann, G. M. & Co. ("Advance"), 500 Girard av, Phila., Pa.
Hinsdill Electric Co., Troy, N. Y.
Milwaukee Electrical Specialties Co. ("M. & B."), Box 393, Milwaukee, Wis.
Monroe Electrical Mfg. Co. ("Monroe"), Monroe, Mich.
Novelty Electric Co. ("Griptite," "Neco," "Flex Clamp"), 50 N 4th. Phila., Pa.
Paiste, H. T. Co. ("Perma-Effect"), Arch & 32d, Phila., Pa.
Pettingell, Andrews Co. ("O-K"), Boston, Mass.
Yonkers Specialty Co. ("New York"), Yonkers, N. Y.

## 1888–Clamps (Guard Rail)

American Guard Rail Fastener Co. ("Anchor" & Malleable Iron), Real Estate Trust bldg
Bossert Co., Utica, N. Y. Phila., Pa.
Cleveland Frog & Crossing Co., Cleveland, O.
Cleveland Railway Supply Co., Cleveland, O.
Morden Frog & Crossing Works ("Duplex," etc.), Commercial B'k bldg, Chicago, Ill.
Q. & C. Co. ("National," "Burpee," "Q. & C."), Plainfield, N. J.
Ramapo Iron Works ("Ramapo"), Hillburn, N. Y.
Weir Frog Co. (Adjustable), Cincinnati, O.
Wharton, Wm. Jr. & Co. (Inc.), 25th & Washington, Phila., Pa.

## 1889– Clamps (Guy)

(See also Clamps, Wire Rope)

**AMERICAN HOIST & DERRICK CO.** ("Crosby"), St. Paul, Minn. (See adv. index & branch offices, end of book)
American Iron & Steel Mfg. Co., Lebanon, Pa.
Bronson-Walton Co. ("Bull Dog" Stop), Cleveland, O.
Cook, Frank B., 904 W Lake, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hallett Iron Works 519 Polk, Chicago, Ill.
Hammond Mfg. Co. ("Jupiter"), Boston, Mass.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co. (Malleable & Steel), Pittsburg, Pa.
Lanz, M. & Sons (Pressed Steel & Malleable Iron), Pittsburg, Pa.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**MACOMBER & WHYTE ROPE CO.,** 266 S Clinton, Chicago, Ill. (See adv. index, end of book)
Matthews, W. N. & Bro. (2 Bolt), St. Louis, Mo.
Michigan Bolt & Nut Works (Patent Pressed Steel), Detroit, Mich.
Morris Iron Co., 90 West. New York
National Telephone Supply Co., Cleveland, O
**NEWHALL CHAIN, FORGE & IRON CO.** ("Trident"), 90 West, New York
Oliver Iron & Steel Co., Pittsburg, Pa.
**ROEBLING'S JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Western Electric Co., 500 S Clinton, Chicago. Ill., & 57 Bethune, New York

## 1890–Clamps (Hay Rack)

Hunt, Helm, Ferris & Co., Harvard, Ill.
Louden Machinery Co., Fairfield, Ia.
**MYERS, F. E. & BRO. ("Wenzelmann" & "Standard"),** Ashland, O. (See adv. index & branch offices, end of book)
Porter, J. E. Co., Ottawa, Ill.
Strickler Hay Tool Co., Janesville, Wis.

## 1891– Clamps (Hood)

Michigan Lubricator Co., Detroit, Mich.

## 1892– Clamps (Hose)

Allen, W. D. Mfg. Co. ("Bull Dog," "Caldwell), 151 Lake, Chicago, Ill.
Andrews, Thos. Mfg. Co. ("Rapid," "Bull Dog"), Rockaway, N. J.
Belknap Mfg. Co., Bridgeport, Conn.
Childs, O. J. Co. ("Childs"), Utica, N. Y.
Claflin, Chas. A. & Co. ("Sure-Hold"), 60 High, Boston, Mass.
Clancy, J. R. ("Redfield" Wrought Steel), 247 Salina, Syracuse, N. Y
Cleveland Pneumatic Tool Co. ("Neverslip," Air Hose), Cleveland, O.
**DALLETT, THOS. H. CO. (For Air** Hose), 2300 York, Phila., Pa. (See adv. index, end of book)
Dayton Malleable Iron Co., Dayton, Ohio
Elkhart Brass Mfg. Co. ("Sure Grip"), Elk hart, Ind
Farnam Brass Co., Cleveland, O.
Grabler Mfg. Co., Cleveland, O.
Hays Mfg. Co., Erie, Pa.
**HELWIG MFG. CO. (Hose Coupling** Clamps), St. Paul, Minn. (See adv. index, end of book)
Jarecki Mfg. Co. (Adjustable), Erie, Pa.
Knox Mfg. Co. (Malleable Iron), 704 Arch.
Maltby, Geo. B. Co., Cleveland, O. Phila., Pa.
Morgan, B., Newport, R. I.
Phoenix Hardware Mfg. Co. ("Star"), Homer.
Reid, Thos. B., Morristown, N. J. N. Y.
S. & I. Co., Springfield, Mass.
Schrader, Geo. H. F., 32 Rose, New York
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), 336 Frankfort av, N W Cleveland, O. (See adv. index, end of book)
Walker Hose Clamp Co., Battle Creek, Mich
**WHITMAN & BARNES MFG. CO.** Chicago, Ill. (See adv. index & branch offices, end of book)
Yost, G. M. Mfg. Co. ("Wilkins"), Meadville. Pa.

## 1893–Clamps (Hose Cleanout)

Hays Mfg. Co. ("Foley"), Erie, Pa.

## 1894–Clamps (Hydrant & Water Pipe)

Crane Co. (Est. 1855) 1214 S Canal Chicago, Ill. (See adv. index & branch offices, end of book)

## 1895– Clamps (Insulator)

Clark Electric & Mfg. Co. ("Clark"), 149 B'way, New York.
Fletcher Mfg. Co., Dayton, O.
Nagel, W. G. Electric Co., Toledo, O.
Paiste, H. T. Co., Arch & 32d, Phila., Pa.
Steel City Electric Co. ("Universal"), Pittsburg, Pa.

## 1896– Clamps (Key Seat)

**STARRETT, L. S., CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 1897–Clamps (Linemen's Splicing)

(A Splicing Tool)

Cincinnati Tool Co. ("Hargraves"), Norwood, Cincinnati, O.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Dicke, H. C. Tool Co., Downers Grove, Ill.
Irvington Mfg. Co. ("Little Giant"), Irvington, N. J.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Lowentraut, P. Mfg. Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, M. W. Co., 88 White, New York
Smith Otis A., Rockfall, Conn.
**SMITH & HEMENWAY CO. ("Red** Devil," also "Haven's," Clamps for Stretching Wire), 150 Chambers, New York. (See adv. index, end of book)

## 1898–Clamps (Machinists')

Athol Machine Co. (Standard Steel), Athol, Mass.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
Cincinnati Tool Co., Norwood, Cincinnati, O.
**HAMMACHER, SCHLEMMER & CO., 133** 4th av, New York. (See adv. index, end of book)
Ideal Machine Wks ("Ideal"), 255 39th, Brooklyn, N. Y.
Lang, G. R. Co. ("Lang's" Stud System of Clamping Work on Machine Tools), Meadville, Pa.
Le Count, Wm. G. (Heavy), So. Norwalk, Conn.
Mark Mfg. Co., Evanston, Ill.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pratt & Letchworth Co., Buffalo, N. Y.
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)
Tower & Lyon Co., 95 Chambers, New York
Woodruff, W. W. & Sons Co., Mount Carmel, Conn.

## 1899–Clamps (Measuring Bar)

**STARRETT, L. S., CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 1900–Clamps (Messenger)

Cook, Frank B., 900 W Lake, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Lanz, M. & Sons, Pittsburg, Pa.

## 1901– Clamps (Mitre)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)
**HAMMACHER, SCHLEMMER & CO., 133** 4th av, New York. (See adv. index, end of book)

## 1902– Clamps (Parallel)

Besly, C. H. & Co., 124 N Clinton, Chicago, Ill.
**STARRETT, L. S., CO. (Tool Makers', etc.), Athol, Mass.** (See adv. index, end of book)

## 1902a–Clamps (Piano Makers')

(See Clamps, Cabinet Makers' & Carpenters')

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## 1903— Clamps (Pipe)

Acme Mfg. Co. ("Acme," Soil Pipe), Bangor, Me.
Adreon Mfg. Co. ("Acme"), St. Louis, Mo.
Custer Coupling Co., Bradford, Pa.
**Dayton Pipe Coupling Co. ("Collerleak", For Screw, Bell & Spigot Pipe, etc.), Dayton, O.**
Dresser, S. R. Mfg. Co. ("Dresser," for Repairing Leaks), Bradford, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Grabler Mfg. Co. (Also Extension), Cleveland, Ohio
Kelly & Jones Co. (Water, etc.), Pittsburg, Pa.
Lord, L. L. Co. ("Lord" Lead Stopper & Repair), Meadville, Pa.
**McCrea, Jas., & Co. ("Emergency," "Climax" Leak Closing), 558 W Washington, Chicago, Ill.**
**Moll, Wm.** ("Ideal," Malleable Iron), 1660 Columbus rd, Cleveland, O.
**National Tube Co., Pittsburg, Pa.**
**Nusbaum, F. A. ("King Bee," "Perfection," Leak Closing), Lockland, O.**
**Parmelee Wrench Co., 2515 W Monroe, Chicago, Ill.**
**Simplex Engineering Co. ("Simplex"), 1109 Locust, Phila., Pa.**
**Western Railway Equipment Co. ("Acme"), Missouri Trust bldg., St. Louis, Mo.**

## 1904— Clamps (Plow)

Hilfinger Bros., Fort Edward, N. Y.
Michigan Bolt & Nut Works, Detroit, Mich.
Stewart & Co., 513 W 50th, New York
Upson Nut Co., Cleveland, O.

## 1905— Clamps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Oliver Iron & Steel Co., Pittsburg, Pa.

## 1905a—Clamps (Pressed Steel)

Adell Bros. Mfg. Co., Orange, Mass.
**PARKER, JOHN L. CO., Worcester, Mass.** (See adv. index, end of book)

## 1906—Clamps (Quilt Frame)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Cincinnati Tool Co., Cincinnati, O.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
**Peck, Stow & Wilcox Co., Southington, Conn.**
Penn Hardware Co., Reading, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

## 1908— Clamps (Rule)

**STARRETT, L. S., CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 1909— Clamps (Saw)

Atkins, E. C. & Co. (Inc.) ("A. A. A."), Indianapolis, Ind.
Baldwin, Tuthill & Bolton (Filing), Grand Rapids, Mich.
Chicago Saw Sharpening Machinery Co. (For Band & Circular Saws, etc.), 30 W Erie, Chicago, Ill.
Covel Mfg. Co. (Saw Filing), Benton Harbor, Mich.
Crescent Machine Co., Leetonia, O.
Disston, Henry & Sons (Inc.) (Brazing, Filing, etc.), Tacony, Phila., Pa.
**Gustafson & Scott Mfg. Co. ("Climax," for Filing Band Saws), 331 S Clinton, Chicago, Ill.**
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Reading Hardware Co., Reading, Pa.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.
**TAYLOR, JAS. L. MFG. CO. (& Jointer Combined), Poughkeepsie, N. Y.** (See adv. index, end of book)
**Tower & Lyon Co. ("Champion"), 95 Chambers, New York**

## 1910—Clamps (Saw Brazing)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Covel Mfg. Co., Benton Harbor, Mich.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Edge, Frank & Co.
Wickes Bros., Saginaw, Mich.

## 1911— Clamps (Screw)

Batavia Clamp Co. ("Colt's"), Batavia, N. Y.
Brown Specialty Machine Co. ("Todd"), Clinton & Jackson blvd, Chicago, Ill.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Dayton Malleable Iron Co. ("Dayton"), Dayton, O.
Hammer & Co. ("Hammer"), Branford, Conn.
Johnson, Israel H., Jr., Co., 337 N 15th, Philadelphia, Pa.
Le Count, Wm. G. (Vice), South Norwalk, Conn.
Malleable Iron Fittings Co., Branford, Conn.
Oliver Machinery Co., Grand Rapids, Mich.
Phoenix Hardware Mfg. Co. (Also Adjustable Screw), Homer, N. Y.
Pratt & Letchworth Co., Buffalo, N. Y.
Stearns, E. C. & Co. (Adjustable), Syracuse, N. Y.
**TAYLOR, JAS. L. MFG. CO. (Quick-Adjusting, Self-Locking Steel Bar, etc.),** Poughkeepsie, N. Y. (See adv. index, end of book)
Welch, T. F. & Co., 55 Sudbury, Boston, Mass.
Wilcox, Crittenden & Co. (Ship & Ship Carpenter), Middletown, Conn.
Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

## Clamps (Ship)

(See Clamps, Boat)

## Clamps (Splicing)

(See Clamps, Linemen's Splicing)

## 1912—Clamps (Steam Joint)

McCrea, Jas. & Co. ("Model," "Climax," "Flange," "Emergency"), 558 W Washington, Chicago, Ill.
Nusbaum, F. A. ("Perfection," "King Bee"), Lockland, O.
Roberts, Geo. I. & Bros. (Inc.), 473 4th av, New York
Simplex Eng. Co., 1109 Locust, Phila., Pa.

## 1913— Clamps (Steel)

Athol Machine Co. (Parallel, Machinists' Swivel, etc.), Athol, Mass.
**INSLEY MFG. CO. (Adjustable Concrete Form),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
Erie Stamping & Mfg. Co. ("Thompson," Pressed Steel), Erie, Pa.
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Le Count, Wm. G., South Norwalk, Conn.
Massachusetts Tool Co. (Precision Parallel), Greenfield, Mass.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO. (Tool Makers',** etc.), Athol, Mass. (See adv. index & branch offices, end of book)
Tatum, S. C. Co. ("Neverbreak"), Cincinnati, O.
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 1914—Clamps (Steel Pipe)

American Steel Foundries (For Cast Iron Pipe Makers), Commercial Nat'l Bk, Chicago, Ill.

## 1916—Clamps (Testing, Electric Wire)

(For Testing Current in Telephone & Current Wires)
Williams Test Clamp Co., Cleveland, O.

## 1917—Clamps (Tool Makers')

Athol Machine Co., Athol, Mass.
Browne & Sharpe Mfg. Co., Providence, R. I.
Goodell-Pratt Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 1918—Clamps (Trolley Pole)

Bayonet Trolley Harp Co. ("Bayonet"), Springfield, O.
Bissell, F. Co. ("Security"), Toledo, O.

## 1919—Clamps (Trolley Wire)

Electric Railway Equipment Co. ("Sure Grip"), Cincinnati, O.

## 1920— Clamps (Veneering)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## 1921—Clamps (Wagon Spring)

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

## Clamps (Water Pipe)

(See Clamps, Hydrant & Water Pipe)

## 1922—Clamps (Wire Fence)

H. H. Fence Clamp Co. ("H. & H."), Marion, Ind.

## 1923—Clamps (Wire Rope)

(See also Clamps, Guy)

**AMERICAN HOIST & DERRICK CO.** ("Crosby"), St. Paul, Minn. (See adv. index & branch offices, end of book)
American Iron & Steel Mfg. Co., Lebanon, Pa.
**AMERICAN STEEL & WIRE CO.** ("Crosby," etc.), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
Bronson-Walton Co. ("Bulldog"), Collinwood, Cleveland, O.
Columbus Bolt Co., Columbus, O.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hawkins, T. B. Foundry Co., Bristol, Pa.
Hubbard & Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co. ("Bull Dog"), Cleveland, O.
Lanz, Matthew & Son, Pittsburg, Pa.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Macomber-Whyte-Moon Co., 122 Centre, New York
**MACOMBER & WHYTE ROPE CO.,** 507 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J.; Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Schaper Construction Material Co., 136 Liberty, New York
Seward & Co., Bloomington, Ind.
Trenton Iron Co., Trenton, N. J.
**UNION ELEVATOR & MACHINE CO.** (Also Manila Rope Clamps) 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wheaton Hardware Co. ("Wheaton"), Sunbury, Ohio
Wilcox, Crittenden & Co., Middletown, Conn.
**WRIGHT WIRE CO. ("W. & C.,"** etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

## 1923a—Clamps (Woodworkers')

(See Clamps, Cabinet Makers' & Carpenters')

## 1924— Clarifiers

International Clarifying Co. ("Sanford"), 81 Wall, New York

## 1925— Clarifiers (Varnish)

Empire Cream Separator Co., Bloomfield, N. J.

## 1926— Clasps (Glass)

Van Doorn Co. (Nickel Plated), Quincy, Ill.

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## 1927— Clasps (Pail)

**ACME STEEL GOODS CO. ("Acme" Flexible Pail & Crate),** Archer av & Farrell. Chicago, Ill. (See adv. index & branch offices, end of book)
**CARY MFG. CO., 29 Roosevelt, New** York. (See adv. index, end of book)
De Haven Mfg. Co., 52 Columbia Hgts, Brook-
Tilson Mfg. Co., Malden, Mass. lyn, N. Y.
Tichner, E. H. & Co., Binghamton, N. Y.
Twisted Wire Box Strap Co. ("Mitchell's Peerless"), 451 Greenwich, New York

## 1928— Classifiers (Slime)

**ALLIS-CHALMERS CO. ("Richards"** Vortex), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Colorado Iron Works Co. ("Atkins" Hydraulic & Mechanical), Denver, Colo.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Engineering Works ("Richards" Pulsator), Denver, Colo.
Dorr, John V. N. ("Dorr"), Equitable bldg, Denver, Colo.
National Ore Concentration Co. ("Woodbury"), First Nat'l Bank bldg, Chicago, Ill.
Power & Mining Machinery Co. (For Concentrating Mills), Cudahy, Wis.

## 1929—Claws (Nail, Four Prong)

**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 1930— Claws (Tack)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Ashtabula Mfg. Co., Astabula, O.
Bonney Vise & Tool Works (Inc.) (Drop Forged), Allentown, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Browne, W. G. Mfg. Co. ("Star" Combination, "Sterling," "Neverbreak," etc.), Kingston, N. Y.
Browne & Dowd Mfg. Co. ("Standard Giant." "Yankee," "Sterling," "Star"), Meriden, Conn.
Buffum Tool Co., Louisiana, Mo.
Cassady-Fairbank Mfg. Co., Chicago, Ill.
Cronk & Carrier Mfg. Co. ("Little Giant"), Elmira, N. Y.
Deuse, J. S., Chester, Conn.
Elmore Tool Mfg. Co., Hartford, Conn.
Ellis Mfg. Co. ("Samson," "Monarch"), Mill-
Farmer Mfg. Co., Cleveland, O. dale, Conn.
Fletcher, Terry & Co.. Forrestville, Conn.
Humason & Beckley Mfg. Co., New Britain, Conn.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Keystone Drop Forge Works (Drop Forged), Chester. Pa.
Kraeuter & Co., Newark, N. J.
Landers, Frary & Clark (Cast Steel & Malleable Iron), New Britain, Conn.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mayhew, H. H. Co., Shelburn Falls, Mass.
Osborne & Co., Newark. N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
S. & I. Co., Springfield, Mass.
Sargent & Co., New Haven. Conn.
Sayre, L. A. & Co., Newark, N. J.
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Utica Drop Forge & Tool Co., Utica, N. Y.
Vaughn & Bushnell Mfg. Co. ("V. & B." Wrought Steel), 2130 Carroll av, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices,
Williams, A. C. Co., Ravenna, O. end of book)
Wrightsville Hardware Co., Wrightsville. Pa.

## 1931— Clay (Furnace)

Bridgeport Crucible Co. ("Climax" for Foundry Use), Bridgeport, Conn.

## 1932—Clay Miners & Shippers

Anness & Pottery Fire Clay Co., Woodbridge, N. J.
Crossley, Geo. C. Co. (Clays for All Purposes), Trenton, N. J.
Cutter, W. H., Woodbridge, N. J.
Edger Brothers Co., Metuchen. N. J.
Edgar. Chas. S., Metuchen, N. J.
**MAURER, HENRY & SON (For All** Purposes), 420 E 23d, New York; Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. inside Front Cover)
**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)
Perrine, H. C. & Son (All Kinds), South Amboy, N. J.
Raritan Ridge Clay Co., Metuchen, N. J.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end
Ryan, Patrick L., Woodbridge, N. J. of book)
Valentine, M. D. & Bro. Co. (Foundry, etc.), Woodbridge, N. J.
Valentine, R. N. & H. Co., Woodbridge, N. J.

## 1933— Clay (Stove)

Williams Stove Lining Co. ("Eagle"), Taunton, Mass.

## 1934—Clay & Shale Gatherers

**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)
Fernholtz Brick Machinery Co., St. Louis, Mo.

## 1935— Clays (China)

Chrystal, Chas. B. (Importer), 11 Cliff, New
Crossley, Geo. C. Co., Trenton, N. J. York
Hammill & Gillespie, 240 Front. New York
Klipstein, A. & Co., 427 Pearl, New York
Nevins, Sam'l Co. (Dried, Ground & Bolted), 109 S 2d, Phila., Pa.
Paper Makers' Chemical Co., Easton, Pa.
Salomon, L. A. & Bro., 216 Pearl. New York
**SCHULE, F. H. CO., 114 Liberty, New** York. (See adv. index, end of book)
Smith, J. Lee & Co., 19 Jacob, New York
Star Clay Co., Mertztown, Pa.
Tennant. C. Sons & Co., 76 William, New York
Whittaker, W. T.. 245 Front. New York
Williams, C. K. & Co. (Bolted), Easton, Pa.

## 1936— Clays (Crucible)

Kern Commercial Co. ("Schippach"), 114 Liberty, New York

## 1937—Clays, Minerals, Etc.

(See also Color Manufacturers & Importers)
Atlas Mining & Mineral Co., Lincoln, N. J.
Baltimore Dry Paint Works, Baltimore, Md.
Binney & Smith Co., 81 Fulton, New York
**Blue Ridge Ochre Co., Cartersville Ga.**
**Cherokee Ochre Co., Cartersville, Ga.**
**Chesapeake Oil Co., Baltimore, Md.**
Chrystal, Chas. B., 11 Cliff, New York
Columbia Brick & Plaster Co. (Clays for Pottery, Terra Cotta, etc.), North East, Md.
Crossley, Geo. C. Co. (Clays for All Purposes). Trenton, N. J.
Crossman Co., South Amboy, N. J.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Earle, Ellis P., 165 B'way, New York
**Ernst, Alfred O., South Amboy, N. J.**
Federal Clay Mfg. Co.. B'way & 23d, New York
Feuchtwanger, L. & Co., 54 Fulton, New York
**Florida Clay Co., Equitable bldg., Baltimore, Md.**
**FOX, M. EWING & CO., 240 E. 136th,** New York. (See adv. index, end of book)
Fuerst Bros. & Co., 2 Stone. New York
Great Eastern Clay Co., 39 Cortlandt, New York
Hammill & Gillespie (China, Potters, etc.), 240 Front, New York
Herrmann. Morris & Co., (Non-Fading Reds), 200 5th av, New York
**Machette, E. V. (Rare Minerals, Ores, Clays, etc.), 120 Liberty, New York.**
Mepham, Geo. S. & Co., East St. Louis, Ill.
Missouri Fire Brick Co., St. Louis, Mo.
Moore & Munger, 11 Cliff, New York
National Gum & Mica Co. 502 W 45th, New York
Nevins, Samuel Co., 109 S 2d. Phila., Pa.
Osborn, Clarence J. (Broker), 284 Pearl, New York
**Paper Makers' Chemical Co. (English China & Ball Clays). Easton, Pa.**
Philadelphia Clay Co. (High Grade Clays), 1201 Chestnut, Phila.. Pa.
Quartz Glass & Mfg. Co., Los Angeles, Cal.
Salomon, L. A. & Bro. (China Clay, etc.), 216 Pearl, New York
Scheel, Wm. H., 159 Maiden la, New York
Smith. J. Lee & Co. (Ochres, Crown Paris White. Indian & Venetian Reds, Drop Black & Colors, China Clay). 19 Jacob, New York
Star Clay Co. (Clays). Mertztown, Pa.
**Such. J. Ridgeway, South Amboy, N. J.**
Tennant, C. Sons & Co. (Arsenic, China Clay. Talc. etc.), 76 William, New York
Thiele, E., 99 John, New York
Uhlich, Paul & Co., 83 Fulton, New York
Union Talc Co. (Agalite), 132 Nassau, New York; Works: Gouverneur, N. Y.
**Vulcan Fire Brick Co., 218 E Lexington, Baltimore, Md.**
Wagener, John O. & Co. (Mineral Pulp), Easton, Pa.
Whittaker, W. H., 245 Front, New York
**WILBUR J. CO. (American Ochres,** Talckene, Black Filler & Red & Gray Slates). Office, Providence, R. I.; Factory, Phila., Pa. (See adv. index, end of book)
Williams, C. K. & Co. (Mineral Pulp, Clays, Ochre, etc.), Easton, Pa.

## 1938— Clays (Modeling)

**NEW YORK ARCHITECTURAL** Terra Cotta Co., 225 5th av, New York. Works: Long Island City, N. Y. (See adv. index, end of book)
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
Stewart & Co., 511 W 50th, New York

## 1939—Cleaners (Alfalfa Seed)

Ferrell, A. T. & Co. ("Clipper"), Saginaw,
Owens, J. L. Co., Minneapolis, Minn. Mich.

## 1940—Cleaners (Bean & Pea)

Dickey, E. P. Fanning Mill Co. ("Dickey"), Racine, Wis.
Ferrell, A. T. & Co. ("Clipper"), Saginaw, Mich.
Johnson & Field Mfg. Co. ("Racine"), Racine,
Leader Mfg. Co., Carthage. Ill. Wis.
Owens, J. L. Co. ("Advance"), Minneapolis, Minn.

## 1941—Cleaners (Boiler Flue & Tube)

Advance Packing & Supply Co., 123 Franklin, Chicago, Ill.
**Andrews, Thos. Mfg. Co. ("Rapid" High Power** Boiler Tube Cleaner). Rockaway. N. J.
Bayer Soot Blower System, St. Louis, Mo.
Berry Engineering Co., Chester, Pa.
**Browne, F. W. (Wire Brushes), Farmington, N. H.**
Buckeye Boiler Skimmer Co. ("Buckeye" Automatic Boiler Skimmers), Toledo, O.
Burgess Machine Co. ("Gronvold" Boiler Flue), New Haven, Conn.
Bushnell, John S. & Co. ("Thompson's" also "Grimm's" Injector Blower for Vertical Boilers; also Soot Suckers), 174 Fulton, New York
**CALDWELL, H. W. & SON CO. ("Ruggles"),** 17th & Western av, Chicago, Ill. **(See adv. index, end of book)**
**Casaday, W. L. Mfg. Co., South Bend, Ind.**
**Chesterton, A. W. & Co. ("Ingalls" Tube Scraper, "Engineers' Favorite" & "Wonder" Tube Cleaner, Combination Scraper & Brush, "Abram" Tube Brush & Spiral Tube Brush & Blowers & Suckers), 64 India, Boston, Mass.**
Christoffel's, A. Son, 277 Eldert. Brooklyn, N. Y.
Claflin. Chas. A. & C. ("Comet" Patent Steam & "Volcano" Patent Vacuum), 60 High. Boston. Mass.
Clark, A. C. & Co. (Mechanical Boiler Cleaner), 1035 E 76th. Chicago, Ill.
Clyde Machine Works (Weichman, "Turbine"), 39th & Union avs, Chicago. Ill.
Colles, E. G. T. & Co. (Boiler Cleaners & Skimmers), 117 N Canal, Chicago, Ill.
**Crescent Mfg. Co. ("Cyclone" Steam Flue Cleaner), 1708 Columbus rd, N. W., Cleveland, O.**
**Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.**
**Decatur Specialty Co. ("Fairies" Self-Expanding & Contracting Tube Cleaner) Decatur. Ill**
**Diamond Power Specialty Co. ("Diamond" Steam Tube Cleaner, Suckers & Blowers), 236 Fort. W, Detroit. Mich**
Doolittle, S. B. & Son ("Doolittle's-Perfect" Flue Cleaner with Shear Cutting Knives). Binghamton, N. Y.
Elliott Co. ("Cyclone," "Bull Dog"), Pittsburg, Pa.
Erie Mfg. & Supply Co. ("The Perfection"), Erie. Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flint, Warren F. (Wire), 103 Merrimac, Boston, Mass.

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Gem Mfg. Co. ("Gem" Flue Scrapers), Spruce & 33d, Pittsburg, Pa.
General Specialty Co. ("Torpedo" Fire Tube Cleaner & "Demon" Water Tube Cleaner), Buffalo, N. Y.
Gerhardt, C. (Flue & Tube Brushes), 591 Hudson, New York
Gilmore Tube Scraper Co. (F. G. Crowell, Prop.) ("Gilmore" Tube Scraper), 61 Terrace, Buffalo, N. Y.
Globe Boiler Compound Co. ("Case" Patent Metal Boiler Cleaner), Binghamton, N. Y.
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
Goodfellow, Jno. H. ("Cyclone," "Autocrat." "New Wizard" Rear End Flue Blower), 36 Ferguson, Buffalo, N. Y.
Greenwood Mfg. & Supply Co. ("Greenwood" Hot Blast Flue Blower), Boston, Mass.
Griffiths, Jas. A. ("The Cook" Blowers & Suckers), 500 N 12th, Philadelphia, Pa.
Hennebohle Co. (Blowers & Suckers), 9390 S Chicago av, Chicago, Ill.
**Hilts Wrench & Mfg. Co. ("Perfect"), Richford, N. Y.**
**Houghton, E. F. & Co., 240 W. Somerset, Phila., Pa.**
Hubbard & Co. ("Phoenix," Boiler Flue, "Knox." Water Tube), Washington, D. C.
Huyette, Paul B. Co. ("Tornado" Air Blower Tube or Flue Cleaner), Betz bldg, Phila., Pa.
Irving Mfg. & Tool Co. (Flue Cleaners), 169 Chambers, New York
Jarecki Mfg. Co. ("The Hurley Freeman" Blowers & Suckers), Erie, Pa.
**JOHNS, H. W.-MANVILLE CO.** ("National"), 100 William, New York. (See adv. index & branch offices, end of book)
Lagonda Mfg. Co. ("Weinland" Water Power Tube Cleaner, Turbine), Springfield, O.
Leonard & McCoy ("The Hotchkiss"), 161 Washington, New York
Liberty Mfg. Co. ("Liberty," "Chicago." "Niagara" Turbine), Pittsburg, Pa.
**Lord, L. L. Co., Meadville, Pa.**
**McCrea, Jas. & Co.** ("Butman" Ball Joint Flue Scraper Rod), 558 W Washington, Chicago, Ill.
**McKim, John & Co. (Flue Cleaning Brushes), 131 N 10th. Phila., Pa.**
**McLaughlin, Geo. G. Mfg. Co., 24 Washington, N, Boston, Mass.**
Manchester Mfg. Co. ("The Meyers" Automatic Skimmer), North Manchester, Ind.
**MARION MACHINE, FOUNDRY & Supply Co.** ("Marion" Flue Blower), Marion, Ind.
**Matthews, W. N. & Bro. ("Steam Scale Knockers"), 219 N 2d, St. Louis, Mo**
**Maurer, Wm. & Co.** ("Lightning" Tube Cleaners), South Bend, Ind.
Michigan Lubricator Co. ("Correct," "Engineers" & "King" & Adjustable Flue Scrapers), Detroit, Mich.
Monarch Steam Blower Co., Troy, N. Y.
Mulholland, Wm. ("The Spencer"), 78 Lafayette. New York
**Newark Brush & Scraper Co. ("Abrams," Tube Brush), Newark, N. J.**
**Nuhring, Chas., & Bro. (Soot Blowers & Suckers, "Success & Kant-Blo-Off"), Cincinnati, O.**
Oberchain & Boyer (Skimmers). Loganspt, Ind.
**Parson Mfg. Co. ("Parson's" Air Jet Flue Cleaner), 149 B'way, New York**
**Paxson, J. W. Co., 1021 Delaware av, Philadelphia, Pa.**
**Perfection Grate Co. ("Perfection" Blower), Springfield, Mass.**
**Pierce, W. B. Co.** ("Dean" Boiler Tube Cleaner), Buffalo, N. Y.
**Pilley Packing & Flue Brush Mfg. Co.** ("Abrams"). St. Louis, Mo.
Poole Mfg. Co. ("Little Giant" Power Water Tube & Fire Tube Cleaners), Albany, N. Y.
Prosser, Thos. & Son (Steel Wire Brushes), 15 Gold, New York
**Reiter Boiler Cleaner Co., Elgin, Ill.**
**Robertson, Jas. L. & Son (Inc.) ("The Hurricane"), 78 Murray, New York**
Roto Co. ("Roto" Steam, Compressed Air & Water Driven Rotary Engines for Fire Tube and Water Tube), Hartford, Conn.
**St. John, G. C. ("St. John" Tube Cleaner, 140 Cedar. New York**
Scully Steel & Iron Co. ("Ruggles" Perfection Flue Cleaner), Ashland av & 24th, Chicago, Ill.
**Seehausen, Wehrs & Co. ("The Lukens"), 45 Franklin. Chicago, Ill.**
Sherwood Mfg. Co. ("Favorite"), Buffalo, N. Y.
**Sims Co. (Mechanical Skimmers). Erie, Pa.**
**Thompson, Richard & Co. ("Thompson's 20th Century" Tube Cleaner or Injector Blower), 126 Liberty, New York**
Thum, C. D. (Brushes), 150 N 3d, Phila., Pa.
**Union Steam Specialty Co. ("Grim" Injector & Soot Sucker). Scranton, Pa.**
**Warley, Thos. C. & Co., 221 S Front, Phila., Pa.**
**Wing, J. T. & Co. ("The Detroit" Flue Cleaners), Detroit, Mich.**
Wolfe Brush Co., Pittsburg, Pa.
**Worcester Brush & Scraper Co. ("Criss-Cross" Tube Cleaner, etc.), Worcester, Mass.**

## 1942—Cleaners, Boiler Flue or Tube (Brushes)

Browne, F. W. (Wire), Farmington, N. H.
**Chesterton, A. W. & Co.** ("Abram" Tube Brush & Spiral Tube Brush), 64 India, Boston, Mass.
Flint, Warren F., 103 Merrimac, Boston, Mass.
Gerhardt, C. (Flue & Tube Brushes), 591 Hudson, New York
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
McKim, John & Co. (Flue Cleaning Brushes, 131 N 10th, Philadelphia, Pa.
Mulholland, J. H. ("The Spencer"), 78 Lafayette. New York
Newark Brush & Scraper Co. ("Abram's" Tube Brush), Newark, N. J.
Pilley Packing & Flue Brush Mfg. Co. ("Pilley" Wire & "Abrams"), St. Louis, Mo.
Prosser, Thos. & Son (Steel Wire Brushes, 15 Gold, New York
Thum, Chas. D., 150 N 3d, Philadelphia, Pa.
Wolfe Brush Co., S 15th & Bingham, Pittsburg, Pa.
Worcester Brush & Scraper Co. ("Ingalls" Tube Brush & Cleaner, & "Worcester" Flue Brush), Worcester, Mass.

## 1943—Cleaners, Boiler Flue or Tube (Scrapers)

Brown, F. W. (Wire), Farrington, N. H.
**Chesterton, A. W. & Co.** ("Ingalls" Tube Scraper; also Combined Scraper & Brush), 64 India, Boston, Mass.
Christoffels, A. Son, 277 Eldert, B'klyn, N. Y.
Colonial Brush & Mfg. Co., Milwaukee, Wis.
Doolittle, S. B. & Son ("Doolittle's Perfect" Flue Cleaner, with Shear Cutting Knives), Binghamton. N. Y.
Decatur Specialty Co. ("Fairies"), Decatur, Ill.
**Gem Mfg. Co. ("Gem" Brush Spiral Flue & Coniform Flue Scrapers), Pittsburg, Pa.**
Gilmore Tube Scraper Works (F. G. Crowell, Prop.) ("Gilmore" Tube Scraper), 200 Terrace, Buffalo, N. Y.
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
Goodfellow, John H. ("Autocrat" Flue Scraper), 36 Ferguson, Buffalo, N. Y.
Jackson Flue Scraper Co. ("Jackson" Flue Scraper), Jackson, Mich.
**JOHNS, H. W.-MANVILLE CO.** ("National"), 100 William, New York. (See adv. index & branch offices. end of book)
Keeley, Jas. J. ("Jackson," Flue Scrapers), Lord, L. L. Co., Meadville, Pa. Jackson, Mich.
Michigan Lubricator Co. ("Essex," "King"), Detroit, Mich.
Millers Falls Co. ("Pratt's" Elastic), 28 Warren, New York
Newark Brush & Scraper Co. ("Collicott's" Improved Ingall's), Newark, N. J.
Pilley Packing & Flue Brush Mfg. Co., 606 S 3d. St. Louis, Mo.
**RYERSON, JOS. T. & SON. 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sherwood Mfg. Co ("Duplex" Tube Scraper, "Engineers' Favorite" Flue Scraper), Buffalo. N. Y.
Scully Steel & Iron Co. ("Ruggles Perfection"), 136 Fulton, Chicago, Ill.
Stewart Heater Co. ("Favorite"), 380 Norfolk av, Buffalo, N. Y.
Worcester Brush & Scraper Co. ("Ingalls" Tube Scraper & Brush), Worcester. Mass.

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## 1944—Cleaners, Boiler Flue or Tube (Soot Blowers & Suckers)

Bayer Soot Blower System, St. Louis, Mo.
Bushnell, John S. & Co. Co. ("Thompson's," also "Grimm's" Injector Blower for Vertical Boilers; also Soot Suckers), 174 Fulton, New York
Chesterton, A. W. & Co. ("Wonder" Tube Cleaner), 64 India, Boston, Mass.
Claflin, Chas. A. C. ("Comet" Soot Blower & "Volcano" Soot Sucker), 60 High, Boston, Mass.
Diamond Power Specialty Co. ("Diamond" Steam Flue Blower), Detroit, Mich.
Goodfellow, John H. ("New Wizard" Rear End Boiler Flue Blower), 36 Ferguson, Buffalo, N. Y.
Greenwood Mfg. & Supply Co. ("Greenwood" Hot Blast Flue Blower), Boston, Mass.
Griffiths, James A. ("The Cook"), 500 N 12th, Phila., Pa.
Hennebohle Co., 9390 S Chicago av, Chicago, Ill.
Huyette, Paul B. Co. ("Tornado" Air Blower Tube or Flue Cleaner), Betz bldg, Philadelphia, Pa.
Jarecki Mfg. Co. ("The Hurley Freeman"), Erie, Pa.
**MARION MACHINE, FOUNDRY & Supply Co.** ("Marion" Soot Blower), Marion, Ind. (See adv. index, end of book)
Michigan Lubricator Co. ("Correct," "Engineers"), 661 Beaubein, Detroit, Mich.
Monarch Steam Blower Co. ("Monarch" Steam Flue Blower), Troy, N. Y.
Nuhring, Chas. & Bro. ("Success" & "Kant-Blo-off") 907 Walnut, Cincinnati, O.
Parson Mfg. Co. ("Parson's" Air Jet Flue Cleaner), 149 B'way, New York
Sherwood Mfg. Co. ("Favorite" Steam Flue Blowers), Buffalo, N. Y.
Thompson, Richard & Co. ("Thompson's 20th Century" Tube Cleaner or Injector Blower), 126 Liberty, New York

## 1945—Cleaners, Boiler Flue or Tube (Steam or Power)

Andrews, Thos. Mfg. Co. ("Rapid" High Power Boiler Tube Cleaner), Rockaway, N. J.
Arrow Blower Co. ("Arrow," Steam), Atlanta, Ga.
Burgess Machine Co. ("Gronvold" Boiler Flue), New Haven, Conn.
**CALDWELL, H. W. & SON CO. ("Red Jacket"),** 17th & Western av, Chicago, Ill. (See adv. index, end of book)
Casaday, W. L. Mfg. Co., South Bend, Ind.
Claflin, Chas. A. & Co. ("Comet" Steam), 62 High, Boston, Mass.
General Specialty Co. ("Torpedo" Fire Tube Cleaner & "Demon" Water Tube Cleaner) 10 Seneca, Buffalo, N. Y
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
Goodfellow, John H. ("Cyclone"), 36 Ferguson, Buffalo, N. Y.
Lagonda Mfg. Co. ("Weinland" Water Power Tube Cleaner), Springfield, O
Liberty Mfg. Co. ("Liberty," "Cyclone," "Chicago"), 6907 Susquehanna, Pittsburg, Pa.
Manchester Mfg. Co. ("Myers", Automatic) North Manchester, Ind.
Maurer, Wm. & Co. ("Lightning" Tube Cleaners), South Bend, Ind.
Monarch Steam Blower Co. (Steam), Troy, N. Y.
Pierce, W. B. Co. ("Dean" Tube Cleaner), 327 Washington, Buffalo, N. Y
Poole Mfg. Co. ("Little Giant" Power Water Tube & Fire Tube Cleaner), Albany, N. Y.
Robertson, Jas. L. & Son (Inc.) ("The Hurricane"), 78 Murray, New York
Roto Co. ("Roto" Steam, Compressed Air & Water Driven Rotary Engines), Hartford, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sherwood Mfg. Co., Buffalo, N. Y.
Steam Appliance Co. ("Henry," Steam Flue Cleaners), Milwaukee, Wis.

## 1946—Cleaners (Boiler, Skimmers)

Buckeye Boiler Skimmer Co. ("Buckeye" Automatic), Toledo, O
Colles, E. G. T. & Co., 117 N Canal, Chicago, Ill.
Manchester Mfg. Co. ("Myers"), North Manchester, Ind
Oberchain & Boyer, Logansport, Ind.

## 1947—Cleaners (Boiler, Turbine)

Clyde Machine Works ("Weichmann"), 39th & Union avs, Chicago, Ill.
Lagonda Mfg. Co. ("Weinland"), Springfield, Ohio
Liberty Mfg. Co. ("Liberty" Heavy Duty), 6509 Susquehanna, Pittsburg, Pa.
Pierce, Wm. B. Co. ("Dean"), Buffalo, N. Y.

## Cleaners (Carpet)

(See Sweepers, Carpet)

## 1948— Cleaners (Corn)

Marseilles Mfg. Co., Marseilles, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Union Iron Works, Decatur, Ill.

## 1949— Cleaners (Drain)

(See also Shovels, Drain)

Buckeye Mfg. Co., Anderson, Ind.
Seymour Mfg. Co., Seymour, Ind.

## 1950— Cleaners (Felt)

Paper Makers' Chemical Co. ("Excelsior," for Paper Makers), Easton, Pa.

## 1951— Cleaners (File)

Cincinnati Tool Co., Cincinnati, O.
Watson, L. S. Mfg. Co., Leicester, Mass.

## 1952—Cleaners (Flax-Seed)

Dickey, E. P. Fanning Mill Co. ("Dickey"), Racine, Wis.
Johnson & Field Mfg. Co. ("Racine"), Racine, Wis.
Owens, J. L. Co. ("Northwestern"), Minneapolis, Minn.

## 1953— Cleaners (Gun)

(See also Tools, Gun Cleaning & Reloading)

Faries Mfg. Co., Decatur, Ill.
Handy Things Co., Ludington, Mich.
Marble Arms & Mfg. Co., Gladstone, Mich.
Nichols, C. M., Beaumont, Tex.
Stevens, J. Arms & Tool Co., Chicopee, Mass.

## 1954— Cleaners (Hand)

Advance Packing & Supply Co. ("Flash" Anti-Septic), 123 Franklin, Chicago, Ill.
Peerless Mfg. & Sales Co. ("Peerless," for Cleaning), 1011 Chestnut, Phila., Pa.
Seed Filter & Mfg. Co. ("Seed's"), 93 Reade, New York

## 1955— Cleaners (Hose)

Rudiger, J. H. ("Rudiger" Automatic), 217 West, New York

## 1956—Cleaners (Incandescent Lamp)

McCreary, Alfred A., 138 Liberty, New York
McGill Mfg. Co. ("Bates"), Valparaiso, Ind.
**MORSE, FRANK W. ("Handy"), 516** Atlantic av, Boston, Mass. (See adv. index, end of book)

## 1957— Cleaners (Knife)

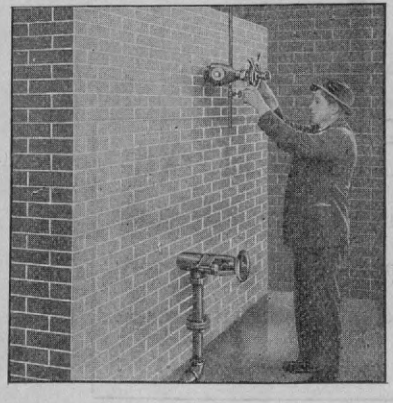
Keil, Francis & Son, 401 E 163d, New York
Landers, Frary & Clark ("Universal"), New Britain, Conn.
Royal Mfg. Co., Lancaster, Pa.

## 1958—Cleaners (Lamp Chimney)

Andrews Wire & Iron Works, Rockford, Ill.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)

## 1959— Cleaners (Metal)

Electric Smelting & Aluminum Co. (For Cleaning Grease & Oil from Metals), Lockport, N. Y.
International Chemical Co. (For Preparing Metal Surfaces for Plating, etc.), Camden, N. J.

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## 1960—Cleaners (Pavement)

(See also Scrapers, Sidewalk)

American Fork & Hoe Co. (For Stables), Cleveland, O.
Hiles, C. A. & Co. (For Removing Snow), 14th & Western av, Chicago, Ill.
Iowa Farming Tool Co., Fort Madison, Ia.
**PITTSBURG SHOVEL CO. ("W. A.** Shuster," "Armstrong"), Oliver bldg, Pittsburg, Pa.; Works: Leechburg, Pa. (See adv. index, end of book)
Union Fork & Hoe Co. (Solid Steel, Snow & Ice), Columbus, O.
Wallingford Mfg. Co. (Solid Steel, Snow & Ice), Wallingford, Vt.

## 1961— Cleaners (Pipe)

**BERNZ, OTTO (Fliteroft Patent), 21** Ashland av, Newark, N. J. (See adv. index, end of book)
Cassady, Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Pilley Packing & Flue Brush Mfg. Co., St. Louis, Mo.

## 1962— Cleaners (Pot)

(See also Scrapers, Pot & Kettle)

Andrews Wire & Iron Works, Rockford, Ill.
Hamblin & Russell Mfg. Co., Worcester, Mass.
National Mfg. Co., Worcester. Mass.
**WRIGHT WIRE CO., Worcester,** Mass.

## 1963— Cleaners (Sack)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Wolff, F., 625 W Boulevard, Kansas City, Mo.

## 1963a— Cleaners (Sidewalk)

(See Cleaners, Pavement)

## 1964— Cleaners (Sink)

National Mfg. Co., Worcester. Mass.
New York Stamping Co. ("Magic"), N 11th & Berry, Brooklyn, N. Y.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index & branch offices, end of book)
Pritchard Stamping Co., Rochester, N. Y.
Wire Goods Co., Worcester, Mass.
**WRIGHT WIRE CO., Worcester,** Mass.

## 1965— Cleaners (Skylight)

Anderson Specialty Co. ("Daylite," Greaseless), 4648 Calumet av, Chicago, Ill.

## 1966— Cleaners (Track)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Ohio Brass Co. ("Monarch"), Mansfield, O.
Root Spring Scraper Co., Kalamazoo, Mich.
Van Dorn & Dutton Co. ("Clark's"), Cleveland, Ohio

## Cleaners (Vacuum)

(See Vacuum Cleaners, Hand & Power)

## 1967—Cleaners (Wall Paper)

Climax Cleaner & Cleveland Paste Co., Cleve-
Electric Cleanser Co., Canton, O. land, O.
Jewel Mfg. Co., 2100 Marshall pl, Chicago, Ill.
Rutherford, Wm., 214 Institute pl, Chicago, Ill.

## 1968— Cleaners (Window)

Bosley, D. W. Co. ("Peerless," "X-L-C-R" Rubber), 1123 Fulton, Chicago, Ill.
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.) (Rubber), Detroit,
National Mfg. Co., Worcester, Mass. Mich.
O. K. Mfg. Co. ("O. K."). Red Bank, N. J.
Parker Wire Goods Co., Worcester, Mass.
Peerless Mfg. & Sales Co. ("Peerless" Powder), 1011 Chestnut, Phila., Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Quaker City Rubber Co. ("X-L-C-R"), 629 Market, Phila., Pa.
Smith, F. H. Mfg. Co. ("Common Sense" Adjustable), 321 St. John's, Chicago, Ill.

## 1969—Cleaning (Water Main)

National Water Main Cleaning Co., 61 Park row, New York

## 1970— Cleanouts

Advance Mfg. Co. ("Palmer," Cast Iron), Erie, Pa.
American Foundry & Mfg. Co. (Brass, Cast Iron & Iron Body), St. Louis, Mo.
Barrett Mfg. Co. ("Barrett Nonpareil," Cast Iron & Iron Body), Boston, Mass.
Bignall Co. ("Dandy"), Medina, N. Y.
**BLAKE SPECIALTY CO. ("Blake's"),** 2412 3d av, Rock Island, Ill. (See adv. index, end of book)
Campbell, J. B. Brass Works (Brass & Iron Body), Erie, Pa.
Campbell Mfg. Co. (Cast Iron & Iron Body), Gadsden, Ala.
Central Brass Works (Brass & Cast Iron), Kansas City, Mo.
Central Foundry Co. ("Sure-Seal," Cast Iron & Iron Body), 37 Wall, New York
Charlotte Pipe & Foundry Co. (Cast Iron & Iron Body), Charlotte, N. C.
Compound Injector & Specialty Co. ("Dehn's Acme," Cast Iron), Chicago, Ill.
Conrad, Jno. F., Elizabeth, N. J.
Cooper Sanitary Mfg. Co. (Brass), 17th & Cuthbert, Phila., Pa.
Crompton-Farley Brass Co. (Brass), Kansas City, Mo.
Esterbrook's, R. Sons ("Boston," "Success," Cast Iron), Boston, Mass.
Exeter Machine Works (Brass), Exeter, N. H.
Federal-Huber Co. (Brass), 234 N Halsted, Chicago, Ill.
Fleck Bros. Co. (Brass), Phila., Pa.
Franklin Pipe & Foundry Co. (Cast Iron & Iron Body), 1155 S Pauline, Chicago, Ill.
Fries & Co. (Brass), Buffalo, N. Y.
Glauber Brass Mfg. Co. (Brass & Iron Body), Cleveland, O.
Haines, Jones & Cadbury (Brass & Iron Body), Phila., Pa.
Haydenville Co. (Brass & Iron Body), Haydenville, Mass.
Hays Mfg. Co. ("Foley," Brass & Cast Iron), Erie, Pa.
Ideal Mfg. Co. (Brass, Cast Iron & Iron Body), Detroit, Mich.
Illinois Malleable Iron Co. (Brass & Iron Body), 1801 Diversey blvd, Chicago, Ill.
Kupfarle, Jno. F. Foundry Co. (Iron Body), St. Louis, Mo.
McDonald, A. Y. Mfg. Co. (Brass, Cast Iron & Iron Body), Dubuque, Ia.
Modern Iron Works (Cast Iron & Iron Body), Quincy, Ill.
Monarch Brass Co. (Brass), Cleveland, O.
National Tube Co. (Cast Iron), Pittsburg, Pa.
Perkes, Chas. (Est. of) (Brass), 627 Arch, Phila., Pa.
Pittsburg Valve & Fittings Co. ("Pittsburg," Cast Iron), Pittsburg, Pa.
Plumbers' Sundries Co. (Iron Body), 442 Orleans, Chicago, Ill.
Royal Brass Mfg. Co. (Brass), Cleveland, O.
Rundle-Spence Mfg. Co. (Brass), Milwaukee, Wis.
Sanitary Co. (Brass), Cleveland, O.
Sanitary Co. of America (Brass, Cast Iron & Iron Body), 13th & Cumberland, Phila., Pa.
Standard Mfg. Co. (Brass, Cast Iron & Iron Body), Pittsburg, Pa.
Steppins, E. Mfg. Co. (Brass), Springfield, Mass.
Street & Kent Mfg. Co. (Brass), 547 Fulton, Chicago, Ill.
Swett, A. L. Iron Works (Cast Iron), Medina, N. Y.
Union Brass & Metal Co. (Brass), St. Paul, Minn.
Watertite Drain Co. ("Anticlogg," Brass, Cast Iron & Iron Body), 168 Duane, New York
Wheeling Sanitary Mfg. Co. (Enameled), Wheeling, W. Va.
Wolff, L. Mfg. Co. (Brass, Cast Iron & Iron Body), 601 Lake, Chicago, Ill.
Woodward & Wanger (Iron Body), 625 Cherry, Phila., Pa.

## 1971— Cleats (Awning)

Greene, Tweed & Co., 109 Duane, New York
Parker Wire Goods Co., Worcester, Mass.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Williams, A. C. Co., Ravena, O.
Wire Goods Co., Worcester, Mass.

## 1972— Cleats (Boat)

Davis & Thomas Co., Catasauqua, Pa.
Laughlin, Thos. Co., Portland, Me.
Malleable Iron Fittings Co., Branford, Conn.
Marine Hardware Co., Peabody, Mass.
Pusey & Jones Co., Wilmington, Del.
Shelton Co., Derby, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

## 1973—Cleats (Car Wiring)

Bryant Electric Co., Bridgeport, Conn.
Burns, Jas. F., 74 N Hutchinson, Phila., Pa.
**GENERAL ELECTRIC CO. (Brass,** Wood, etc.), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Ridlon, Frank Co., Boston, Mass.

## 1974— Cleats (Conduit)

Berger Bros. Co., 237 Arch, Phila., Pa.
Boston Brass Co., Boston, Mass.
Diamond Mfg. Co., Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
**Walworth Mfg. Co.,** Boston, Mass.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 1975—Cleats (Fibre Wiring)

**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
Blake Signal & Mfg. Co. (Compressed), Boston, Mass.
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wilmington,** Del.; Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Del. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**MORRIS ELECTRIC CO., Wilmington,** Del.
**PARKER, J. C. & SONS FIBRE CO.** Fibre Wiring), New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY CO.,** Wilmington, Del. (See adv. index & branch offices, end of book)

## 1976—Cleats (Porcelain or Clay)

Adamant Porcelain Co., Broadway, Va.
Akron Smoking Pipe Co., Mogadore, O.
American Carbon & Battery Co., East St. Louis, Ill.
Anderson Porcelain Co., East Liverpool, O.
Artistic Porcelain Co. (Porcelain), Trenton, N. J.
Brunt, G. F. Porcelain Works (Porcelain), East Liverpool, O.
Colonial Sign & Insulator Co., Akron, O.
Cook Pottery Co., Trenton, N. J.
Denver Pressed Brick Co., Denver, Colo.
Diamond Porcelain Co., Trenton, N. J.
Electric Porcelain Co. (Porcelain), East Liverpool, O.
Electric Porcelain Mfg. Co., (Porcelain Only), Trenton, N. J.
Empire China Works (Porcelain to Order Only), 156 Greene Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hartford Faience Co., Hartford, Conn.
Imperial Porcelain Works ("Duggan" Porcelain), Trenton, N. J.
Knowles, C. S. ("B-D," "Cartwright"), Boston, Mass.
Pass & Seymour (Porcelain), Solvay, N. Y.
Thomas, R. & Sons Co. (Porcelain Only), East Liverpool, O.
Trenton Porcelain Co., Trenton, N. J.
Union Porcelain Works, Trenton, N. J.
Union Porcelain Works, 300 Eckford, Brooklyn,
Wirt Mfg. Co., Burrage, Mass. N. Y.

## 1977— Cleats (Rope)

**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 1978—Cleavers (Butchers' & Family)

American Cutlery Co., 732 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nicholas** Bros."), Greenfield, Mass. (See adv. index, end of book)
Bishop, Geo. H. & Co. (Family), Lawrenceburg, Ind.
Black, John B. ("Wm. Beatty & Sons," "Royal," "Diamond"), Chester, Pa.

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Bradley's, G. W. Sons (Inc.), Westport, Conn.
Browne & Dowd Mfg. Co. (Family), Meriden, Conn.
Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
**Chatillon, Jno. & Sons, 87 Cliff, New York**
**Christy Knife Co. (Family Cleavers), Fremont,**
**Clyde Cutlery Co. (Family), Clyde O. Ohio**
**Evansville Tool Works, Evansville, Ind.**
**Forsyth Mfg. Co. ("Family," "No. 802"), Buffalo, N. Y.**
Foster Bros. & Chatillon Co., Fulton, N. Y.
Griffin Mfg. Co., Erie, Pa.
Hoffman, C. & A. (Butchers'), Frankford, Phila., Pa.
International Cutlery Co., Fremont, O.
Kinnel Edge Tool Forging Co., Columbus, O.
**Knickerbocker Mfg. Co. (Family Only), Belle-**
**Mack & Co., Rochester, N. Y. ville, N. J.**
**Peck, Stow & Wilcox Co. (Family), Southington, Conn.**
Plumb, F. R. (Inc.), Frankford, Phila., Pa.
**Richard, Stephen Co. ("S-N" & Family), Southbridge, Mass.**
Stortz, Jno. & Son (Family), 210 Vine, Phila.,
Washington Cutlery Co., Watertown, Wis. Pa.
White, Ira F. & Son Co. (Family Cleaver & Tender), Bloomfield, N. J.
White, L. & I. J. Co., Buffalo, N. Y.

## 1979–Clevises (Anchor & Chain)

Wilcox, Crittenden & Co., Middletown, Conn.

## 1980–Clevises (Iron & Steel)

Harris, Wm. & Son Co., N S, Pittsburg, Pa.

## 1981–Clevises (Plow, Etc.)

Empire Plow Co., Cleveland, O.
Kruse, Kross Klevis Co., Higginsville, Mo.
Mason, F. C. & Co., St. Johns, Mich.
Union Malleable Iron Co., East Moline, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 1982–Clevises (Pump Lifting)

**Love, M. A. Mfg. Co., Rockford, Ill.**
**Trahern Pump Co., Rockford, Ill.**
**Ward Pump Co., Rockford, Ill.**

## 1983–Climbers (Linemen's)

**Blakslee Forging Co. ("Donnelly"), Plantsville, Conn.**
**Cincinnati Tool Co. ("Hargraves"), Norwood, Cincinnati, O**
**Cronk & Carrier Mfg. Co. ("Sure Grip"), Elmira, N. Y.**
**Dicke, C. H. Tool Co., Downers Grove, Ill.**
**Irvington Mfg. Co., Irvington, N. J.**
**Kilborn & Bishop Co., New Haven, Conn.**
**Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.**
**Lowentraut, P. Mfg. Co., Newark, N. J.**
**Oshkosh Logging Tool Co., Oshkosh, Wis.**
**Reidy, Jno. J. ("Superior" Drop Forge), New Haven, Conn.**
**Smith, H. D. & Co. ("S" Drop Forged), Plantsville, Conn.**
**SMITH & HEMENWAY CO. ("Never** Turn," "Swedish" & "Red Devil"), 150 Chambers, New York. (See adv. index. end of book)
**Stephens, Wilmot ("Stephens." Bronze with Aluminum), Binghamton, N. Y.**
**Utica Drop Forge & Tool Co. ("Neverturn"), Utica, N. Y.**

## 1984– Clinometers

**ELLIOTT, B. K. CO. (Pocket, etc.),** 108 6th, Pittsburg, Pa. (See adv. index, end of book)
Ainsworth, Wm. & Sons, Denver, Colo.
Taylor Instrument Companies ("Tycos"), Rochester, N. Y.

## 1985–Clippers (Bolt or Rivet)

Carolus Mfg. Co., Sterling, Ill.
**CHAIN BELT CO. ("Levalley"), Mil-** waukee. Wis. (See adv. index & branch offices, end of book)
Chambers Bros. Co., 52d below Lancaster av, Phila., Pa.
Champion Tool Co. ("Keystone," "Champion"), Meadville, Pa.
Columbus Bolt Works, Columbus, O.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Moore Drop Forging Co., Springfield, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Porter, H. K. ("Easy," "New Easy"), Everett, Mass.
Roberts Mfg. Co. ("Roberts" & "Victor"), Somerville, Mass.
Schollhorn, Wm. Co. ("Elm City," "Bernard" End Cutting), New Haven, Conn.

## Clippers (Cattle Dehorning)

(See Dehorners, Cattle)

## 1986–Clippers (Finger Nail)

Cook, H. C. Co. ("Gem"), Ansonia, Conn.
Klip-Klip Co. (Klip-Klip). Rochester, N. Y.
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, end of book)
Snow & Petrelli Mfg. Co., New Haven, Conn.
Sperry & Alexander Co. (Toolever), 300 B'way, New York

## 1987–Clippers (Hair, Barbers')

Brown & Sharpe Mfg. Co., Providence, R. I.
**COATES CLIPPER MFG. CO.** ("Coates"), Worcester, Mass. (See adv. index, end of book)

## 1988– Clippers (Horse)

(See also Horse Clipping Machines)
American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.
Brown & Sharpe Mfg. Co. (Hand Clippers), Providence, R. I.
Hotchkiss, Edw. S., Bridgeport, Conn.
**Redman, C. H. & Co., Newark, N. J.**
**Reliable Electric Co. ("Reliable," Electric), 12 S. Jefferson, Chicago, Ill.**

## 1989– Clippers (Orange)

Cassady, Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Clauss Shear Co. ("Claus"), Fremont, O.
Compton, W. H. Shear Co., Newark, N. J.
Henry, John T. Mfg. Co., Hamden, Conn.
Lowentraut, B. Mfg. Co., Newark, N. J.
National Cutlery Co., Westmoreland & Boudinot, Phila., Pa.
Wiss, J. & Sons Co., Newark, N. J.

## Clippers (Stay Bolt)

(See Pneumatic Stay Bolt Clippers)

## 1989a– Clippers (Staybolt, Hand Power)

**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)

## 1990– Clips (Axle)

Akron-Selle Co., Akron, O.
Blakeslee Forging Co., Plantsville, Conn.
Clapp. E. D. Mfg. Co., Auburn, N. Y.
Cleveland Hardware Co., Cleveland, O.
Columbus Bolt Works, Columbus, O.
Cowles, C. & Co., New Haven, Conn.
Eccles, Richard Co., Auburn, N. Y.
Moore, Franklin Co., Winsted. Conn.
Oliver Iron & Steel Co., Pittsburg, Pa.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Seward, M. & Son Co., New Haven, Conn.
Smith, H. D. Co., Plantsville, Conn.
Union Forging Co., Union, N. Y.
Upson Nut Co., Unionville, Conn.
Western Tool & Forge Co., Brackenridge, Pa.
Wilcox, D. Mfg. Co., Mechanicsville, Pa.

## Clips (Cable Hanging)

(See Hangers, Cable)

## 1991– Clips (Damper)

Adams Co., Dubuque, Ia.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index & branch offices, end of book)
Berger Bros. Co., 231 Arch, Phila., Pa.
Brohard Co. (Malleable Iron), 3d & Lehigh, Phila., Pa.
Farmer Mfg. Co., Cleveland. O.
Kramer Bros. Foundry Co., Dayton, O.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Meister & Cochran ("Sterling" No-Rivet), Sterling, Ill.
Republic Metal Ware Co., Buffalo, N. Y.
Sharon Hardware Mfg. Co., Sharon. Pa.
Sterling Foundry Co. ("Sterling," No-Rivet), Sterling, Ill.
Stover Mffg. Co. ("Ideal"), Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
U. S. Register Co., Battle Creek, Mich.
Wrightsville Hardware Co., Wrightsville, Pa.

## 1992– Clips (Floor)

Mulvey, Chas. Mfg. Co. (Steel Floor), 18 S Jefferson, Chicago, Ill.

## 1993–Clips (Fountain Pen)

Ansonia Novelty Co. ("Best"), Ansonia, Conn.
Consolidated Safety Pin Co. ("Klymax"), Bloomfield, N. J.
Van Valkenburg ("Faultless"), Holyoke, Mass.

## 1994– Clips (Hame)

**Imperial Bit & Snap Co. ("Imperial"), Racine, Wis.**
Oliver Iron & Steel Co., Pittsburg, Pa.

## 1995–Clips (Ironing Board)

Ironing Board Clip Co. ("Quick-Catch"), Cleveland, O.

## 1996– Clips (Paper)

Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Business Men's Publishing Co. ("Common Sense), Detroit, Mich.
Clipless Paper Fastener Co., Newton. Ia.
Consolidated Safety Pin Co. ("Eureka"), Bloomfield, N. J.
Cook, H. C. Co. ("Vise Clip"), Ansonia, Conn.
Cushman & Denison Mfg. Co. ("Gem," "Ideal"), 240 W 23d, New York
Niagara Clip Co. ("Niagara," "Giant," "Cinch"), 155 Waverly pl, New York
Peck, Stow & Wilcox Co., Southington, Conn.
Sargent & Co., New Haven, Conn.
Tatum. Sam'l C. Co. (Double Spring, etc.), Vise Clip Co., Ansonia, Conn. Cincinnati, O.
Weis Mfg. Co. ("Weis"), Monroe, Mich.

## 1997– Clips (Plank)

**Sullivan, J. H. (For Re-Inforced Concrete Work), Grand Rapids, Mich.**

## 1998–Clips (Safety Packing Case)

**Von Kokeritz, R. G. & Co. ("Glardon"), 114 Liberty, New York**

## 1999–Clips (Saw Handle)

Taylor Mfg. Co. (One Piece), Girard, Pa.

## 2000– Clips (Sleeper)

Chicago Builders' Specialty Co. ("O. K." Wire), 84 Van Buren, Chicago. Ill.
Mulvey, Chas. Mfg. Co. (Steel Floor), 1537 W 35th, Chicago, Ill.
Variety Mfg. Co. (Steel), Sacramento & Carroll av, Chicago, Ill.

## 2001–Clips (Structural Steel)

Racky & Son Iron Works, 2718 Wentworth av, Chicago. Ill.
Steeter, H. C., 416 W Indiana, Chicago, Ill.

## 2002– Clips (Testing)

**MORSE, FRANK W. ("Morse Eure-** ka"), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
Mueller, R. S. & Co. (Insulated), Cleveland, O.

## 2002a–Clips (Trolley Wire)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 2003– Clips (Wire Rope)

American Cable Clip Co., 39 E 42d, New York
**AMERICAN HOIST & DERRICK CO.** ("Crosby"), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**AMERICAN STEEL & WIRE CO.,** ("Crosby"), Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv index & branch offices, end of book)
**BRODERICK & BASCOM ROPE CO.,** 809 N Main. St. Louis, Mo. (See adv. index & branch offices, end of book)
Byers, John F. Machine Co., Ravenna, O.
Cincinnati Railway Supply Co., Cincinnati, O.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Durable Wire Rope Co., Boston, Mass.
Hammond Mfg. Co., Boston, Mass.

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Hazard Mfg. Co., Wilkes-Barre, Pa.
Lamson & Sessions Co. ("Bull Dog"), Cleveland, O.
Lanz, M. & Sons, Pittsburg, Pa.
Laughlin, Thos. Co. ("Dirigo"), Portland, Me.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Macomber-Whyte-Moon Co., 122 Centre, New York
**MACOMBER & WHYTE ROPE CO.** 507 S Clinton, Chicago, Ill. (See adv. Index & branch offices, end of book)
Mockbee, C. M. ("Cincinnati"), Cincinnati, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Seward & Co., Bloomington, Ind.
**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)
Trenton Iron Co., Trenton, N. J.
**UNION ELEVATOR & MACHINE CO.** ("Union"), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.
**WRIGHT WIRE CO. ("Crosby").** Worcester, Mass. (See adv. index & branch offices, end of book)

## 2004— Clock Mfrs.

(See also Clocks, Various Kinds)

Ansonia Clock Co., 11 Cliff, New York. Works: Ansonia, Conn.
Bristol Brass Co., Bristol, Conn.
Chelsea Clock Co., 16 State, Boston, Mass.
Durfee, Walter H. (Tubular Chime), Providence, R. I.
Electro Clock Co., Baltimore, Md.
Gilbert, W. L. Clock Co. (And Regulators), 37 Maiden la, New York; Works: Winsted, Conn.
Goodwin & Kintz Co. (Novelty), Winsted, Conn.
**HOWARD, E. CLOCK CO., 373 Washington,** Boston, Mass. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
Ingraham, E. Co., Bristol, Conn.
Ithaca Calendar Clock Co., Ithaca, N. Y.
Ladd, W. C., Bristol, Conn.
Magneta Co., 1955 Park av, New York
Monitor Clock Works, Medina, N. Y.
New Haven Clock Co., New Haven, Conn.
Parker Clock Co., Meriden, Conn.
Phelps, H. D., Ansonia, Conn.
Self-Winding Clock Co., 163 Grand av., Brooklyn, N. Y.
Sessions Clock Co. (Mantel, Hanging, Regulators, etc.), Forrestville, Conn., & 37 Maiden lane, New York
Standard Electric Time Co., Waterbury, Conn.
Thomas, Seth Clock Co., Maiden la, New York. Works, Thomaston, Conn.
Trinity Electric Clock Co., 92 Lake, Chicago, Ill.
Waltham Clock Co., Waltham, Mass.
Waterbury Clock Co., Waterbury, Conn.
Western Clock Mfg. Co. ("Ironclad," Alarm, etc.), La Salle, Ill.

## 2005— Clock Movements for Meters, Gauges, Etc.)

Fiego, Alex. J. R., Lynn, Mass.
Plumb, David S., 24 Boudinot, Newark, N. J.
Reeves Mfg. Co., Milford, Conn.
Waterbury Clock Co., Waterbury, Conn.

## 2006— Clock Trimmings

Clark, A. N. & Son, Plainville, Conn.
Gardner's, J. B. Sons, Ansonia, Conn.
Waterbury Clock Co., Waterbury, Conn.


# Howard Electric Clock System

Consists of a MASTER CLOCK arranged with electric contacts for controlling any number of SECONDARY ELECTRIC CLOCKS desired, operated by an electric circuit sent from the MASTER CLOCK.

THE AYER MILLS, AND WOOD WORSTED MILLS, Lawrence, Mass.; PRUDENTIAL INSURANCE BUILDING, Newark; HALL OF RECORDS, New York; CONGRESSIONAL LIBRARY, Washington, D. C.; and others have been lately installed.

*For Buildings Requiring a Time Service, write*

## The E. HOWARD CLOCK CO.

BOSTON NEW YORK CHICAGO


## 2007— Clocks (Alarm)

American Ever Ready Co. (Electric), 308 Hudson, New York
Ansonia Clock Co. ("Snap," "Winner"), Ansonia, Conn.
Atlantic Novelty Co., 489 B'way, New York
Darche Mfg. Co. ("Darche," Electric Searchlight, Night Light, Call & Alarm), 2117 S Halsted, Chicago, Ill.
Borgfeldt, Geo. & Co. (Imported), 16th & Irving pl, New York
Ingraham, E. Co., Bristol, Conn.
New Haven Clock Co. ("Tattoo"), New Haven, Conn.
Parker Clock Co., Meriden, Conn.
Western Clock Mfg. Co. ("Ironclad") La Salle, Ill.

## 2007a—Clocks (Angelus Strikers, Quarter & Half Hour Strikers)

**HOWARD, E. CLOCK CO., 373** Washington, Boston, Mass. (See adv. index & branch offices, end of book)

## 2007b— Clocks (Automobile)

(See Clocks & Watches, Dashboard)

## 2008— Clocks (Electric)

American Watchman's Time Detector Co., 45 Sheriff, Cleveland, O.
Blodgett Clock Co., 141 Franklin, Boston, Mass.
Bogart, A. L. Co., 123 Liberty, New York
Darche Mfg. Co., 2117 S. Halsted, Chicago, Ill.
Eco Magneto Clock Co., 289 Congress, Boston.
Electro Clock Co., Baltimore, Md. Mass.
Herzog Teleseme Co., 137 W 23d, New York
Hight Mfg. Co., Decatur, Ill.
**HOWARD, E. CLOCK CO., (Secondary).** 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)
Imhauser, E. & Co. (Watchman's), 206 B'way, New York
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
Magneta Co., 1955 Park av, New York
Pearce, Frederick Co., 18 Rose, New York
Pettes & Randall Co., 150 Nassau, New York
Prentiss Clock Improvement Co., 92 Chambers, New York
Self-Winding Clock Co., 163 Grand av, Brooklyn, N. Y.
Standard Electric Time Co. (Time System), Waterbury, Conn.
Thomas, Seth, Clock Co., 15 Maiden Lane, New York, Works, Thomaston, Conn.
Trinity Electric Clock Co., 92 Lake, Chicago, Ill.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

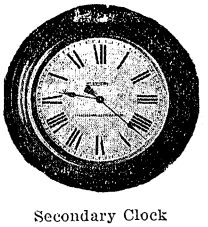
## 2009—Clocks (Electric Alarm)

Darche Mfg. Co. ("Flash Light"), 2117 Halsted, Chicago, Ill.
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
Manhattan Electrical Supply Co., New York
Partrick, Carter & Wilkins Co., Phila., Pa.
Roche, W. ("Wide Awake"), Jersey City, N. J.
Standard Electric Time Co., Waterbury, Conn.
Stanley & Patterson ("Diamond"), 23 Murray, New York

## 2010—Clocks (English Hall)

Colonial Mfg. Co., Zeeland, Mich.
Durfee, Walter H. (Tubular Chime), Providence, R. I.
Grand Rapids Clock & Mantel Co. (Also Clock Cases, Electric, etc.), Grand Rapids, Mich.
Harris & Harrington ("J. J. Elliott" Imported English), 12 Barclay, New York


*"THE INDUSTRIAL LINE"*



Secondary Clock

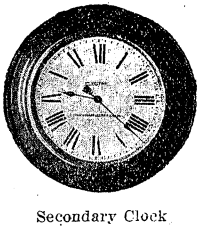
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Secondary Clock


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**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
Standard Electric Time Co., Waterbury, Conn.
Waltham Clock Co. (Striking or Chiming on Gongs, Bells or Tubes), Waltham, Mass.

## 2011—Clocks (Locomotive)

Ashcroft Mfg. Co., 85 Liberty, New York; Works: Bridgeport, Conn.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
**CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass.** (See adv. index & branch offices, end of book)
**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
**NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y.** (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Thomas, Seth Clock Co., 15 Maiden lane, New York; Works: Thomaston, Conn.

## 2012— Clocks (Marine)

American Steam Gauge & Valve Mfg. Co., Boston, Mass.
Ansonia Clock Co., 99 John, New York
Ashcroft Mfg. Co., 85 Liberty, New York Works, Bridgeport, Conn
Chelsea Clock Co. ("Chelsea"), 16 State, Boston, Mass.
**CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass.** (See adv. index & branch offices, end of book)
Gilbert, W. L. Clock Co., Winsted, Conn.
**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
**NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y.** (See adv. index end of book)
New Haven Clock Co., New Haven, Conn.
Phelps, H. D., Ansonia, Conn.
**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Thomas, Seth Clock Co., 15 Maiden lane, New York. Works: Thomaston, Conn
Trinity Electric Clock Co., 92 Lake, Chicago, Ill.
United States Gauge Co. ("U S."), 67 Wall, New York
Waterbury Clock Co., Waterbury, Conn.

## 2013— Clocks (Pneumatic)

Hahl Automatic Clock Co. ("Masterclock" Automobile, 2644 N Maplewood, av., Chicago. Ill.
Johnson Service Co., Milwaukee, Wis.

## Clocks (Program)

(See Clocks, Self-Winding & Program, Electric)

## 2014—Clocks (Secondary Electric)

**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Standard Electric Time Co., Waterbury, Conn.

## 2015—Clocks (Self-Winding & Program Electric)

American Watchman's Time Detector Co., 234 B'way, New York
Blodgett Clock Co., 141 Franklin, Boston, Mass.
Columbia School Supply Co., Indianapolis, Ind.
Electro Clock Co., Baltimore, Md.
Frick, Fred. Clock Co., Waynesboro, Pa.
Hight Mfg. Co., Decatur, Ill.
**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Johnson Service Co. (Pneumatic), Milwaukee, Wis.
Magneta Co., 1955 Park av, New York
New York Standard Watch Co., Jersey City, N. J.
Prentiss Clock Improvement Co., 92 Chambers, New York
Self-Winding Clock Co., 163 Grand av, Brooklyn, N. Y.
Trinity Elec. Clock Co., 92 Lake, Chicago, Ill.

## 2016—Clocks (Synchronized Systems)

American Watchman's Time Detector Co., Cleveland, O.
Bunnell, J. H. & Co., 20 Park pl, New York
Herzog Teleseme Co., 137 W 23d, New York
**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Magneta Co., 1955 Park av, New York
Pettes & Randall Co., 150 Nassau, New York
Prentiss Clock Improvement Co. (Synchronized System of Time Plants), 92 Chambers, New York
Self-Winding Clock Co., 163 Grand av, Brooklyn, N. Y.
Standard Electric Time Co., Waterbury, Conn.
Trans-Cais Time Recorder Co., Cleveland, O.
Trinity Electric Clock Co., 92 Lake, Chicago, Ill.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

## 2017—Clocks (Time-Recording System)

(See also Time Recorders)

American Watchman's Time Detector Co., 234 B'way, New York
Automatic Time Stamp Co., 160 Congress, Boston, Mass.
Crouse-Hinds Co. ("Hawley"), Syracuse, N. Y.
**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
International Time Recording Co. of New York ("Rochester," "Dey"), Endicott, N. Y.
Johnson Service Co. (Pneumatic), Milwaukee, Wis.
Sanford, C. E., 18 B'way, New York
Simplex Time Recorder Co. ("Simplex"), Gardner, Mass.

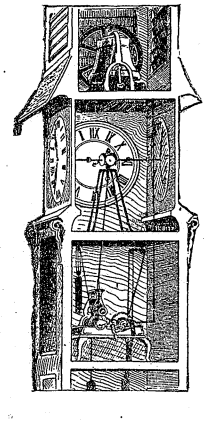
## 2018— Clocks (Tower)

**HOWARD, E. CLOCK CO. (Angelus Strikers & Quarter & Half-Hour Strikers), 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Johnson, Nels, Manistee, Mich.
Johnson Service Co. (Pneumatic), Milwaukee, Wis.
Prentiss Clock Improvement Co., 92 Chambers, New York
Self-Winding Clock Co., 163 Grand av, Brooklyn, N. Y.
Standard Electric Time Co. (Electric), Waterbury, Conn.
Thomas, Seth Clock Co., 15 Maiden la, New York; Works: Thomaston. Conn.

## 2019—Clocks (Watchman's)

(See also Time Recorders)

American Watchman's Time Detector Co. ("Cleveland," Magneto American Watchman's Time Detector), Cleveland, O.
American Watchmen's Time Detector Co., 234 B'way, New York
Bunnell, J. H. & Co., Park pl & Church, New York
Eco Magneto Clock Co., Boston, Mass.
Edwards & Co., 140th & Exterior, New York
General Watchmen's Time Detectors Co., 27 Pine, New York
Hardinge Bros. ("Beyer" Portable Time Detectors), 3135 N Lincoln av, Chicago, Ill.
Hausberg, E. O., 45 Maiden la, New York
Hersey Mfg. Co. ("Tilden"), Boston, Mass.
Holtzer-Cabot Electric Co., Brookline, Mass.
Hoppe, Paul F., 106 Liberty, New York
**HOWARD, E. CLOCK CO. (Electric), 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)
Imhauser, E. & Co. (Portable & Electric), 206 B'way, New York
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Kastens, Henry, 418 W 27th, New York
Kopp, Robt, 177 B'way, New York
Moosman, Paul, 206 B'way, New York

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103 State St., Chicago, Ill.




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Nanz Clock Co. ("Hahn"), 178 Fulton, New York
Newman Clock Co. (Stationary, Portable & Electric), 1526 Wabash av, Chicago, Ill.
Riggs & Bro. (Electric & Portable), 310 Market, Philadelphia, Pa.
Sanford, Chas. E. (Night Watchman's Register), 18 B'way, New York
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Standard Electric Time Co., Waterbury, Conn.
Time Keeper Co. ("Argus"), 1526 Wabash av, Chicago, Ill.

## 2020—Clocks & Watches (Dashboard)

Chelsea Clock Co., 16 State, Boston, Mass.
Clark, A. N. & Son ("Hex"), Plainville, Conn.
Hight Mfg. Co., Decatur, Ill.
Phinney-Walker Keyless Clock Co. ("Keyless"), 79 E 130th, New York
Post & Lester Co. ("Regal"), Hartford, Conn.
Waterbury Clock Co., Waterbury, Conn.

## 2021— Clogs

Buffalo Last Works, Buffalo, N. Y.
Halliwell Bros., 2449 Kensington, Phila., Pa.
Halliwell's, Chas. H. Sons, 2539 N Front, Phila., Pa.
Wildman, James W. (English). 222 Diamond, Phila., Pa.
Wildman, Joseph, 1942 N Front, Phila., Pa.

## 2022— Closets (Dry Earth)

American Warming & Ventilating Co. ("American Cremating"), Elmira, N. Y.
Fuller & Warren Co., Troy, N. Y.
Heap, Wm. & Sons ("Heap's"). Grand Haven, Mich.
Lewis & Kitchen, 12th & Michigan av, Chicago, Ill.
MaGirl, P. H. Foundry & Furnace Works ("Mammoth"), Bloomington, Ill.
Standard Mfg. Co., Pittsburg, Pa.
Universal Sanitary Mfg. Co., New Castle, Pa.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.

## 2023—Closets (Hopper Trap)

**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index. end of book)

## 2023a—Closets (Running Trap)

**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index. end of book)

## 2024— Cloth (Blue Print)

**ELLIOTT, B. K. CO., 108 6th, Pitts**burg, Pa. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
**SOLTMANN, E. C.** 134 W 29th, New York. (See adv. index, end of book)

## 2025— Cloth (Brattice)

Childs, H. L. & Co., Pittsburg, Pa.
**IRVING MFG. & TOOL CO. (J. F.** McCoy, Prop.), 169 Chambers, New York. (See adv. index, end of book)
Kern Commercial Co. (Waterproof, Non-Inflamable), 114 Liberty, New York
Mineralized Rubber Co., 18 Cliff, New York
Turner, Laurin H. & Co. (Non-Inflamable Duck), 135 Adams, Chicago, Ill.

## 2026— Cloth (Insulating)

(See also Mica; also other Insulating Specialties)
American Mica Co. ("Puritan"), Newton, Lower Falls, Mass.
Chicago Mica Co. ("Champion"), Valparaiso, Ind.
Consumers' Rubber Co. ("Euclid"), Cleveland, Ohio
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Massachusetts Chemical Co., Walpole, Mass.
Mica Insulator Co. ("Empire"), 67 Church, New York
Packard Electric Co., Warren, O.
Pittsburg Insulating Co. (Linen), Pittsburg, Pa.
Standard Paint Co. ("P. & B."), 100 William, New York
**Van Dorn & Dutton Co., Cleveland, O.**

## 2027— Cloth (Umbrella)

Dender Textile Co., Passaic, N. J.

## 2028—Clothes Dryers (Hot Air, Steam, Etc.)

Chicago Dryer Co., 381 Wabash av, Chicago, Ill.
Hawkins-McCain Co., Indianapolis, Ind.
Hill-Canton Dryer Co., Canton, O.
Mannen & Esterly Co., Cleveland, O.
Miller, Wm. Range & Furnace Co., Cincinnati, Ohio
Peck-Williamson Heating & Ventilating Co. ("Favorite"), Cincinnati, O.
Steel Roll Machine Co., 254 E Madison. Chicago, Ill.

## 2029—Clothes Drying Frames

American Mfg. & Novelty Co. (Bars, Clothes Horses, etc.), Erie, Pa.
**Chapman, C. A.** ("Superior" Window & Balcony Dryers), Geneva, N. Y.
Cooper & McKee, 110 Lorimer, Brooklyn, N. Y.
Fleck, M., 442 Pleasant av, New York
Hill-Canton Dryer Co., Canton O
Hill Dryer Co. (Also for Fire Escapes, Roof or Lawn), Worcester, Mass.
Leonard, Wm. C. ("Leonard," for Range, Boiler, etc.), Newark, N. J.
Martcross Co. ("Martcross" Clothes Bars), 49 Wabash, Chicago, Ill.
**Moulton, C. W. & Co.** (Folding, etc.), Somerville, Mass.
**Munnsville Plow Co. ("Munnsville Best"), Munnsville, N. Y.**
**Nashua Novelty Works, Nashua, N. H.**
Phillips, A. J. Co., Fenton, Mich.
Seed Filter & Mfg. Co. ("Out-of-Sight," "Royal" Elevating), 93 Reade, New York
Smith, G. W., 132 Manhattan, New York
Taylor Mfg. Co. (For Wall or Floor), Girard, Pa.
Toledo Cooker Co., Toledo, O.

## 2030— Clothes Lines

(See also Rope, Cotton, Etc.)
**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York. (See adv. index, end of book)
Estes Mills, Fall River, Mass.
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO., 82 Chauncy,** Boston, Mass. (See adv. index, end of book)

## 2031—Clothes Lines (Wire)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 2032—Clothes Reel Centers (Iron)

Adams Co., Dubuque, Ia.
Indiana Foundry Co., Indiana, Pa.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Sweet, A. L. Iron Works, Medina, N. Y.

## 2033— Clothing (Miners')

Hardsocg Mfg. Co., Ottumwa, Ia.

## 2034— Clothing (Oiled)

Adler, L. & D. Co., Baltimore, Md.
Boynton's Imported Process Oiled Clothing Co., Gloucester, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Corliss, C. R. & Son, Gloucester, Mass.
Gloucester Oiled Clothing Co., Gloucester, Mass.
Maryland Oiled Clothing Co., Baltimore, Md.
Mineralized Rubber Co. (Rubber Oiled), 18 Cliff, New York
National India Rubber Co., Bristol, R. I.
Nelson, John (Est of), Gloucester, Mass.
Nickelson, Levi Co., Gloucester, Mass.
Our Own Mfg. Co., 576 B'way, New York
Rowe, Joseph H., Co., Gloucester, Mass.
Schwartz & Bernstein, Gloucester, Mass.
Standard Oiled Clothing Co., 152d & Union av, New York
Tower, A. J. Co. (Fish Brand), Vermont & Simmon, Boston, Mass.

## 2035— Clothing (Rubber)

Hodgman Rubber Co., 806 B'way, New York
La Crosse Rubber Mills Co., La Crosse, Wis.
Reliable Rubber Co., Tuckahoe, N. Y.

## 2036— Cloths (Filter)

Brighton Mills, Passaic, N. J.
Channon, H. Co., 52 Market, Chicago, Ill.
Gulf Bag Co., New Orleans, La.
Hoegee, Wm. H. Co. (Inc.), Los Angeles, Cal.
Lane, J. H. & Co., 110 Worth, New York
Milwaukee Bag Co., Milwaukee, Wis.
Redfield, Robt. S. & Co., 90 West, New York

## 2037— Cloths (Press)

Brighton Mills, Passaic, N. J.
Perkins, J. T. Co., Kent av, Brooklyn, N. Y.

## 2038—Cloths (Wiping, Plumbers')

Beekman Sanitary Specialty Co., 312 W 34th, New York
**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Buffum Tool Co., Louisiana, Mo.
Famous Mfg. Co., Grand Rapids, Mich.
Glauber, M. & Co., 10 Christopher, New York
Johnson, Wm. (Hedenberg Works) (Moleskin & Ticking), Newark, N. J.
Nye Tool & Machine Works ("Nye." Common & Herringbone Ticking & English Moleskin), 114 N Jefferson, Chicago, Ill.
Plumbers' Sundries Co. ("Banner," Line), 442 Orleans, Chicago, Ill.
Starbuck, R. M. & Sons ("Starbuck"), Hartford, Conn.
Union Supply Co. ("Killeen," Moleskin & Herringbone Ticking). Dundee, Ill.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.
Woodward & Wanger, 625 Cherry, Phila., Pa.
Worcester Rag Warehouse Co. (For Wiping & Polishing), Worcester, Mass.

## 2039— Clusters (Fixture)

(Ceiling or Wall Bracket Fixtures)
American Brass & Copper Co., 138 Lafayette, New York
Benjamin Electric Mfg. Co. (Wireless), 120 S Sangamon, Chicago, Ill.
Bryant Electric Co., Bridgeport, Conn.
Columbia Gas Fixture Co., 148 N 4th, Phila., Pa.
Dale Co. ("Weeks"), 352 W 13th, New York
Dayton Mfg. Co., Dayton, O.
Federal Electric Co. ("Meridian"), 640 W Lake, Chicago, Ill.
Forg, Peter, Somerville, Mass.
**FRINK, I. P., 24th & 10th av, New** York. (See adv. index. end of book)
Gail-Webb Mfg. Co. ("Universal"), Buffalo, N. Y.
Gleason, E. P. Mfg. Co., 37 Murray, New York
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Greenwood Mfg. & Supply Co., Boston, Mass.
Harter Mfg. Co., 164 Lake, Chicago, Ill.
Hubbell, Harvey (Inc.), Bridgeport, Conn.
McLeod, Ward & Co., 17 Thames, New York
**MORSE, FRANK W., 516 Atlantic av,** Boston, Mass. (See adv. index, end of book)
Post-Glover Electric Co., Cincinnati, O.
Roberts, H. C. Electric Supply Co., 905 Arch, Phila., Pa.
Smith, Theodore, 428 Throop Chicago, Ill.
Wells Light Mfg. Co. ("Wallworks"), Jersey City, N. J.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.
White, Jas. H. Mfg. Co., 111 N 3d, Brooklyn, N. Y.
White, O. C. Co., Worcester, Mass.

## 2040—Clusters (Mill Arc Lamp)

Benjamin Electric Mfg. Co., 120 S Sangamon, Chicago, Ill.

## 2041—Clusters (Wireless Fixture)

Benjamin Electric Mfg. Co. ("Anti-Night"), 120 S Sangamon, Chicago, Ill.
Dale Co. ("Weeks"), 9th av & 13th, New York
Faries Mfg. Co., Decatur, Ill.
Federal Electric Co., 640 W Lake, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y., & 930 Church, New York. (See adv. index & branch offices, end of book)
McGill Mfg. Co. ("Harter"), Valparaiso, Ind.

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## 2042—Clutches (Arc Lamp)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Phila. Electrical & Mfg. Co. ("Perfect"), 2011 Market, Phila., Pa.
Turner Brass Works, Sycamore, Ill.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 2042a—Clutches (Automobile)

**MERCHANT & EVANS CO. (Inc.),** ("Hele-Shaw"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## 2043— Clutches (Cone)

Warner Gear Co., Muncie, Ind.

## 2044— Clutches (Electric)

**CUTLER-HAMMER CLUTCH CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & SUPPLY** Co., Central & Giddings, Cleveland, O. (See adv. index, end of book)
Williams Electric Machine Co., Akron, O.

## 2045— Clutches (Friction)

(See also Pulleys, Friction Clutch; also Machinery, Power Transmitting)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Tool & Machine Co. ("Worrall," Improved), 109 Beach, Boston, Mass.
American Twist Drill Co. ("Worrall"), Laconia, N. H.
Baldwin, A. S. & Co. ("Reilly"), Sharon, Pa.
Barnard & Leas Mfg. Co. ("Barnard"), Moline, Ill.
Bauroth Bros., Springfield, Ohio.
Becker Milling Machine Co., Hyde Park, Mass.
Blevney, J. C., Newark, N. J.
Brightman Machine Co., Cleveland, O.
Burtt Mfg. Co., Kalamazoo, Mich.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Burrell Mfg. Co., Bradley, Ill.
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index, end of book)
Carruthers-Fithian Clutch Co., Grove City, Pa.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., Allegheny av W of 17th, Phila., Pa., & West St. bldg, New York
**CUTLER-HAMMER MFG. CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Eastern Machinery Co. ("Frisbie"), New Haven, Conn.
Edgemont Machine Co. ("Edgemont"), Dayton, O.
Emerson Mfg. Co., Lawrence, Mass.
Erie Clutch & Pulley Co., Erie, Pa.
Essmueller Mill Furnishing Co. ("Peerless"), 1216 S 8th, St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falls Clutch & Machinery Co. ("Falls"), Cuyahoga Falls, O.
Faneuil Watch Tool Co. ("The Rivett"), 1 Brooks, Br., Boston, Mass.
Farrel Foundry & Machine Co. (Coil), Ansonia, Conn.
Filer & Stowell Co., Milwaukee, Wis.
Frost Mfg. Co. ("Frost"), Galesburg, Ill.
Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
Hartford Machine Screw Co., Hartford, Conn.
Hill Clutch Co., Cleveland, O.
Hilliard Clutch & Machinery Co. ("Hilliard" Friction Clutch & Cut-Off Coupling), Elmira, N. Y.
Hunt, Rodney, Machine Co., Orange, Mass.
Hunter, Jas. Machine Co., North Adams, Mass.
Jacobson Machine Co., Warren, Pa.
Johnson, Carlyle Machine Co. ("Johnson"), Manchester, Conn.
Jones, W. A. Foundry & Machine Co. ("Lemley"), 1401 W North av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keasey Pulley Co., Toledo, O.
**LINK BELT COMPANY ("Ewart"),** Hunting Park av, & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
McMahon & Co., Worcester, Mass.
Medart Patent Pulley Co., St. Louis, Mo.
**MERCHANT & EVANS CO. (Inc.),** ("Hele-Shaw"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mereen-Johnson Machine Co. ("Gagnon"), Minneapolis, Minn.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Minster Machine Co., Minster, O.
Moore & Lorenz Co., 2144 W Fulton, Chicago, Ill.
Moore & White Co., 15th & Lehigh av, Phila.,
Morgan Construction Co., Worcester, Mass.
Never-Slip Clutch Co. ("N. S."), Noblesville, Ind.
Nugent Tool Co. ("Economy"), Cincinnati, O.
Oesterlein Machine Co., Cincinnati, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Plamondon, A. Mfg. Co., 12 N Clinton, Chicago, Ill.
Platt Iron Works Co., Dayton, O.
Poole Engineering & Machine Co., Woodbury Sta., Baltimore, Md.
Pusey & Jones Co., Wilmington, Del.
Pyott Co. ("Muir-Miller "Steel Plate), 945 Carroll av, Chicago, Ill.
Rivett Lathe Mfg. Co. ("The Rivett"), Brighton, Boston, Mass.
Robinson & Co. ("La Grippe"), Richmond, Ind.
Schultz A. L. & Son, 1675 Elston av, Chicago, Ill.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Skillin & Richards Mfg. Co. ("Muir" Steel Plate, etc.), 46th av & Courtland, Chicago, Ill.
Snow & Petrelli Mfg. Co. ("Joe's"), New Haven, Conn.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Standard Clutch Mfg. Co. ("Standard"), Sidney, O.
Strait, H. N. Mfg. Co., Kansas City, Mo.
Stephens-Adamson Mfg. Co. ("S.-A." Disc), Aurora, Ill.
Turner Machine Co., 3632 N Lawrence, Phila., Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
**WELLER MFG. CO. (And Jaw), 853** E North av, Chicago, Ill. (See adv. index, end of book)
Wellman-Seaver-Morgan Co., Cleveland, O.
Williams Foundry & Machine Co. ("Akron"), Akron, O.
Woods, T. B. & Sons Co., Chambersburg, Pa.
Wooster Machine Co. ("Davis"), Wooster, O.

## 2045a—Clutches (Friction Heavy Mill)

**MINNEAPOLIS STEEL & MACHINE**ry Co. (Two Plate), Minneapolis, Minn. (See adv. index & branch offices, end of book)

## 2046—Clutches (Gas Engine)

Carruthers-Fithian Clutch Co., Grove City, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Grand Rapids Gas Engine & Yacht Co. (Friction Reversible), Grand Rapids, Mich.
Johnson Carlyle Machine Co. (Friction), Manchester, Conn.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Wooster Machine Co. ("Davis"), Wooster, O.

## 2047—Clutches (Magnetic)

**CUTLER-HAMMER CLUTCH CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Williams Foundry & Machine Co. ("Akron"), Akron, O.

## 2048—Clutches (Wood Split)

Reeves Pulley Co., Columbus, Ind.

## Coal Breakers

(See Crushers, Coal & Coke)

## 2048a—Coal Buckets (Automatic Steam)

**MEAD-MORRISON MFG. CO., Cam**bridge (Boston), Mass. (See adv. index, & branch offices, end of book)

## 2048b— Coal Dock Outfits

(See Conveyors, Coal; also Buckets; also Tubs, Hoisting; also Tubs, Self-Dumping; also Derricks; also Engines, Hoisting, etc.)

## 2048c—Coal Handling Plant Construction

(See Coal Storage Plant Construction; also Machinery, Coal & Ore Handling; also Conveyors, Coal & Ash Handling)

## 2049—Coal Handling Systems for Power Plants

**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N. E., Cleveland, O. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry. Phila., Pa. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam**bridge, Boston, Mass. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., THE, 2410 W** 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

## Coal Mining Machinery

(See Machinery, Coal Mining)

## 2050— Coal Storage Plant Construction

(See also Conveyors, Coal & Ash Handling)

**BROWN HOISTING MACHINERY CO.,** Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)
Dodge, J. M. Co. (Complete Plants), Nicetown, Phila., Pa.
**EXETER MACHINE WORKS, Pitts**ton, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. (De**signers & Builders), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O. (See** adv. index & branch offices, end of book)
**LINK BELT COMPANY (Complete** Plants), Hunting Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices end of book)
Macdonald Engineering Co., 98 Jackson boul., Chicago, Ill.
**MEAD-MORRISON MFG. CO., Cam**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Roberts & Schaefer Co. (Engineers' & Contractors' Specialties, Washeries, Tipples, Power Houses, Bins & Coaling Stations), Old Colony bldg, Chicago, Ill.
Wellman-Seaver-Morgan Co., Cleveland, O.
Williams, White & Co. (For Coaling Stations by Gravity), Moline, Ill.

## 2051— Coal Tar Products

Alton Chemical Co., Bradford, Pa.
American Naval Stores Co. (of New York), 21 State, New York
Armitage Mfg. Co., Richmond, Va.
Barrett Mfg. Co., 17 Battery pl, New York
**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)
Carey, Philip Mfg. Co., Lockland, O.
City Gas Co. (Gas & Coal Tar), Norfolk, Va.
Galliopolis Gas & Coke Co., Galliopolis, O.
Garrett, C. S. & Son Co., 22 S Marshall, Philadelphia, Pa.
General Roofing Mfg. Co., East St. Louis, Ill., & Chicago, Ill.
Huggins, Jas. & Son (For Rubber Mfrs.), Malden, Mass.
Kentucky Coke Co., Louisville, Ky.
Kettle River Co., Minneapolis, Minn.
Lyons, Jas., Evergreen, Borough of Queens, New York
Milwaukee Gaslight Co., Milwaukee, Wis.
Nashville Chemical Co., Nashville, Tenn.
Nashville Roofing & Paving Co., Nashville, Tenn.

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National Aniline & Chemical Co., 100 William, New York
National Coal Tar Co., 17 Battery pl, New York
Schoelkopf, Hartford & Hanna Co., Buffalo, N. Y.
Semet-Solvay Co., Syracuse, N. Y.
Stelwagon Mfg. Co., 19th & Washington av, Phila., Pa.
Union Roofing & Mfg. Co., St. Paul, Minn.
Warren Bros. Co., Boston, Mass.
Warren Chemical & Mfg. Co., 17 Battery pl, New York
**WATSON, H. F. CO. (Crude & Refined), Erie, Pa.** (See adv. index & branch offices, end of book)
Wilckes, Martin, Wilckes Co. (Coal Tar Only), 135 William, New York

## 2052—Coal & Coke Crushing & Screening Plants

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Heyl & Patterson, Pittsburg, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
**PITTSBURG CONVEYING MACHINery Co., Pittsburg, Pa.** (See adv. index, end of book)
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill.** (See adv. index & branch offices, end of book)

## Coating (Concrete)

(See Water-proofing Materials)

## Coating (Rope & Cable)

(See Wire Rope Coating & Lubricant)

## 2053—Coatings (Cast Iron Pipe)

American Asphaltum & Rubber Co. ("Pioneer" Mineral Rubber), Harvester bldg, Chicago, Ill.
Armitage Mfg. Co., Richmond, Va.
Highland Chemical Products Co. ("Highland," Non-Corrosive), Connellsville, Pa.
Riesenman Mfg. Co. (Ltd.) ("Eclipse"), Franklin, Pa.
Standard Asphalt & Rubber Co. ("Sarco," Mineral Rubber for Steel & Cast Iron Pipe), 205 Lasalle, Chicago, Ill.

## 2054— Cobalt

Harshaw, Fuller & Goodwin Co. (Peroxide & Sulphate), Cleveland, O.
Roessler & Hasslacher Chemical Co. (Oxide, etc.), 100 William, New York

## 2055— Cobblers' Outfits

Dalton, D. J., Commercial Bank bldg, Chicago, Ill.
Enterprise Mfg. Co., N 3d, cor Dauphin, Phila., Pa.
Heath Fdry & Mfg. Co., Plymouth, O.
Root Bros. Co., Plymouth, O.
Sacks, Louis, Newark, N. J.
Wrightsville Hardware Co., Wrightsville, Pa.

## 2056— Cochineal

**Innis, Speiden & Co., 46 Cliff, New York**
**Klipstein, A. & Co., 122 Pearl, New York**
**Mortimer & Wisner, 68 Beaver, New York**
Powers-Weightman-Rosengarten Co., Phila., Pa.

## 2057— Cock Eyes & Rings

Oliver Iron & Steel Co., Pittsburg, Pa.

## Cocks (Acid-proof Stoneware)

(See Stoneware, Chemical)

## 2058— Cocks (Air)

Asbell, S. J. Co., Paterson, N. J.
**B. & B. Coupling Co., People's Gas bldg, Chicago, Ill.**
Buckeye Iron & Brass Works, Dayton, O.
Canton Brass & Machine Co., Canton, O.
Detroit Brass Works, Detroit, Mich.
Hays Mfg. Co., Erie, Pa.
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Kelly & Jones Co., Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Michigan Lubricator Co., Detroit, Mich.
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
**NATIONAL GAUGE CO., 168 8th** Brooklyn, N. Y. (See adv. index, end of book)
Nolte Brass Co., Springfield, O.
**Pittsburg Brass Mfg. Co. (For Mines), Penn. av. & 32d, Pittsburg, Pa.**
Queen City Brass & Iron Wks, Cincinnati, O.
Roberts Brass Mfg. Co., Detroit, Mich.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Standard Brass & Iron Works (Screwed for Wood Caskets for Brewers, etc.), Milwaukee, Wis.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Woods Valve & Machine Co., Steubenville, O.

## 2059— Cocks (Air Brake)

Sherburne & Co. (Brakeman's, for Controlling from Rear of Trains When Backing), Boston, Mass.
**WESTINGHOUSE AIR BRAKE CO.,** (Self-Locking Angle), Pittsburg, Pa.

## 2060—Cocks (Air Brake Hose)

**Q. M. S. Co. ("Anew"), Plainfield, N. J.**

## 2061— Cocks (Ale & Beer)

American Foundry & Mfg. Co., St. Louis, Mo.
Asbell, S. J. Co., Paterson, N. J.
Bishop-Babcock-Becker Co., Cleveland, O.
Chambers & Co., Newark, N. J.
Clark Novelty Co., Rochester, N. Y.
Cleveland Faucet Co., Cleveland, O.
Cleveland Brass Works, Cleveland, O.
Hamilton, Jno. Brass Works (Beer or Bar), Bridgeport, Conn.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
Liberty Brass Works, Baltimore, Md.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
**McNab & Harlan Mfg. Co., 56 John, New York**
Michigan Brass & Iron Works, Detroit, Mich.
Peck Bros. & Co., New Haven, Conn.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Strater, Herman & Sons, Boston, Mass.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Woods Valve & Machine Co., Steubenville, O.

## 2062— Cocks (Ball)

Adee, Fred. Co., 44 Cliff, New York
Ahrens & Ott Mfg. Co., Louisville, Ky.
American Pin Co., Waterbury, Conn.
**American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.**
Appleton Brass Co. ("Curtain," Rotary), Boston, Mass.
Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
Boston Brass Co. ("B. B." High Pressure), 36 Oliver, Boston, Mass.
Boyts, Porter & Co., Connellsville, Pa.
Burlington Brass Works ("Hartford"), Burlington, Wis.
Cahill-Swift Mfg. Co. ("Crescent"), St. Louis, Mo.
Crampton-Farley Brass Co., Kansas City, Mo.
Columbus Brass Co., Columbus, O.
Coyne & Delany, 832 Kent av, Brooklyn, N. Y.
Crane Co. (Est. 1855), 1214 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Dalton & Ingersoll Co., Boston, Mass.
Dearborn Brass Co., Cedar Rapids, Ia.
D'Este, Julian & Co., 24 Canal, Boston, Mass.
Detroit Bath Tub & Brass Co., Detroit, Mich.
Douglas, John Co., Cincinnati, O.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works ("Ryan's"), Exeter, N. H.
Fleck Bros. Co., 44 N 5th Phila., Pa.
Foster, F. W. Mfg. Co. ("Nevriek"), 99 Haverhill, Boston, Mass.
Frost Mfg. Co. ("Frost"), Kenosha, Wis.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa
Haydenville Co., Haydenville, Mass.
Heap, Wm. & Sons, Grand Haven, Mich.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works, 231 Race, Phila., Pa.
Huxley Valve Co. ("Huxley"), 281 Chicago, Buffalo, N. Y.
Hyland, W. J. Mfg. Co. (Clark), Springfield, Mass.
Ideal Mfg. Co., Detroit, Mich.
**Illinois Malleable Iron Co., 1801 Diversey boul.** Chicago, Ill.
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
**McDonald, A. Y. Mfg. Co., Dubuque, Ia.**
Meyer-Sniffen Co., 11 W 36th, New York
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Monarch Brass Co., Cleveland, O.
**Mott, J. L. Iron Works, 118 5th av, New York**
Mueller, H. Mfg. Co., Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
National Supply Co., Toledo, O.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Nye Tool & Machine Works ("Nye," Noiseless), 114 N Jefferson, Chicago, Ill.
Ohio Pump & Brass Co. ("Triumph"), Columbus, O.
Peck Bros. & Co., New Haven, Conn.
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh" Screw Operated), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Regester Co., Westminster, Md.
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
S. & I. Co. ("Never Break," "S. & I. Quiet"), Springfield, Mass.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Sanitary Mfg. Co. ("Reliable"), Hamilton, O.
Scully, W. J. Ventilator & Mfg. Co., Detroit, Mich.
**SIMMONS, JOHN, CO. ("Rothchild"), 104-110 Centre, New York.** (See adv. index, end of book)
Stebbins, E. Mfg. Co., Springfield, Mass.
**STEIN, HENRY ("Ryan" & "Improved Hartford"), 48 Cliff, New York.** (See adv. index end of book)
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Syracuse Faucet & Valve Co. ("Syracuse"), Syracuse, N. Y.
Trenton Brass & Machine Co., Trenton, N. J.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
Universal Tool Co. ("Try Me"), Springfield, Mass.
Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Wolverine Brass Works. ("Dale"), Grand Rapids, Mich.
Wright Specialty Mfg. Co., Youngwood, Pa.
Young, Jos. H. Co. ("N. C." Glass Seat), 80 High, Boston, Mass.
Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

## 2063— Cocks (Basin)

Allyne Brass Foundry Co. ("Junior," Compression), Detroit, Mich.
Banner Mfg. Co. ("Banner," Self-Closing Faucet), 122 Centre, New York
Bashlin Co. (Self-Closing), Warren, Pa.
Burlington Brass Works (Fuller & Compression), Burlington, Wis.
Central Brass Mfg. Co. ("Quick-Pression Work"), Cleveland, O.
Central Brass Works Co. ("Standard"), Kansas City, Mo.
Century Brass Mfg. Co., Cattaraugus, N. Y.
Chicago Faucet Co. ("Chi-Fau-Co.," Self-Closing), 315 S Clinton, Chicago, Ill.
Cooper Sanitary Mfg. Co. (Compression & Fuller), 17th & Cuthbest. Phila., Pa.
Dearborn Brass Co. (Self-Closing), Cedar Rapids, Ia.
Dick Bros. (Inc.) ("Dick"), Reading, Pa.
Elgin Brass Co., Cleveland, O.
Excelovalve Co. ("Excel-O-Valve" Slow Closing), 25 W 42d, New York
Federal Mfg. Co., 160 State, Chicago, Ill.
Frost Mfg. Co. ("Frost," "745"), Kenosha, Wis.
Hays Mfg. Co., Erie, Pa.
Imperial Co. ("Imperial"), Grove City, Pa.
Kelly & Jones Co. (Compression, etc.), Pittsburg Pa.
**McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.**
McDonald, A. Y. Mfg. Co. ("McDonald," Adjustable Right or Left Fuller), Dubuque, Ia.
Mayor, Lane & Co., 340 Hudson, New York
Meyer-Sniffen Co., 11 W 36th. New York
Mott, J. L. Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co. (Fuller, Compression & Self-Closing), Decatur, Ill.

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**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh" Screw Operated), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Regar Co. ("Regar"), Cleveland, O.
Regester Co., Westminster, Md.
Roberts Brass Mfg. Co., Detroit, Mich.
Sanitary Co., Cleveland, O.
Stebbins, E. Mfg. Co. ("Broughton" Self-Closing), Springfield, Mass.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
Woods Valve & Machine Co., Steubenville, O.

## 2064— Cocks (Bath)

American Brass Mfg. Co., Cleveland, O.
American Sanitary Mfg. Co. ("American-Fuller"), Abingdon, Ill.
Burlington Brass Works (Fuller), Burlington, Wis.
Central Brass Mfg. Co. ("Quick-Pression Work"), Cleveland, O.
Century Brass Mfg. Co. (Fuller), Cattaraugus, N. Y.
Climax Specialty Co. (Compression Double Bath), Ann Arbor, Mich.
Consolidated Casting Co. ("I-S," Self-Closing, Mixing), Mechanicsville, N. Y.
Cooper Sanitary Mfg. Co. (Compression & Ful-
[illegible] Pa
Edwardsville Brass Co., Edwardsville, Ill.
Elgin Brass Co., Cleveland, O.
Hays Mfg. Co., Erie, Pa.
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
Mott, J. L. Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co. (Compression Double), Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Northern Brass Mfg. Co. (Double, etc.), Waukegan, Ill.
Regester Co. (Double), Westminster, Md.
Roberts Brass Mfg. Co., Detroit, Mich.
Sanitary Co., Cleveland, O.
Trenton Brass & Machine Co. (Compression), Trenton, N. J.
Woods Valve & Machine Co., Steubenville, O.

## 2065— Cocks (Bibb Nose)

**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 2066—Cocks (Blast Furnace)

**PITTSBURGH VALVE FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 2067— Cocks (Blow-Off)

Best Mfg. Co., Pittsburg, Pa.
**CHICAGO PNEUMATIC TOOL CO.** ("Little Giant" Pneumatic, for Locomotive Boilers), Fisher bldg, Chicago, Ill. (See adv. index & branch offices. end of book)
Crane Co. (Est. 1885), 519 S. Canal, Chicago Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE** Co. ("Johnstone"), 95 Oliver, Boston. Mass. (See adv. index, end of book)
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa.
Homestead Valve Mfg. Co., Homestead, Pa.
**PITTSBURGH VALVE FOUNDRY &** Construction Co., 26th & A. V, Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
**SIMMONS, JOHN CO. ("Rothchild"),** 104-110 Centre, New York. (See adv. index, end of book)
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York

## 2068— Cocks (Corporation)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
Anderson Coupling Co. ("Anderson"), Hartford. Conn.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton. O.
Campbell, J. B. Brass Works, Erie, Pa.
Chambers & Co., Newark, N. J.
Cleveland Bronze & Brass Works, Cleveland, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Dart, E. M. Mfg. Co., Providence, R. I
Eastwood Wire Mfg. Co., Belleville, N. J.
Elkhart Brass Mfg. Co. (Stop), Elkhart, Ind.
Everhart Brass Works, Scranton, Pa.
Farnan Brass Works, Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.
Hamilton, Jno. Brass Works, Bridgeport, Conn.
Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
Haydenville Co., Haydenville, Mass. Mass.
Hays Mfg. Co., Erie, Pa.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Humphreys Mfg. Co., Mansfield, O. Pa.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co., 137 Water, Pittsburg, Pa.
Kinsey & Mahler Co., Peoria, Ill.
Kitson Co. ("Kitson"), 1224 Callowhill, Phila., Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
**LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
McNab & Harlin Mfg. Co.. 56 John, New York
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Meyer-Sniffen Co., 11 W 36th, New York
Michigan Brass & Iron Works, Detroit, Mich.
Mueller, H. Mfg. Co. Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Nichol, Thos. J. & Co., Cincinnati, O.
Nolte Brass Co., Springfield, O.
Ohio Pump & Brass Co., Columbus, O.
Peck Bros. & Co., New Haven, Conn.
Pioneer Brass Works, Indianapolis, Ind.
Regester Co., Westminster, Md.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Schutte & Korting Co., N 12th & Thompson, Phila., Pa.
Smith, A. P. Mfg. Co. (Also Curb), E Orange, N. J.
Spence Mfg. Co., S. Milwaukee, Wis.
Standard Brass Works, Detroit, Mich.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co. ("S. & K."), 549 Fulton, Chicago, Ill.
**UNION WATER METER CO., Worcester, Mass.** (See adv. index, end of book)
United Brass Mfg. Co., Cleveland, O.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Woods Valve & Machine Co., Steubenville, O.

## 2069— Cocks (Curb)

Anderson Coupling Co. ("Anderson"), Hartford. Conn.
Hays Mfg. Co., Erie, Pa.
Mueller, H. Mfg. Co., Decatur, Ill.
Nolte Brass Co., Springfield, O.
Rockford Brass Works, Rockford, Ill.
Woods Valve & Machine Co., Steubenville, O.

## 2070— Cocks (Cushion)

**SIMMONS, JOHN CO. ("Rothchild"),** 104 Centre, New York. (See adv. index, end of book)

## 2071— Cocks (Cylinder

Danville Foundry & Machine Co. ("Hammer's" Automatic), Danville. Ill.
Edna Brass Mfg. Co. (Locomotive Cylinder), Cincinnati, O.
Hancock Inspirator Co. (Pneumatic), 85 Liberty, New York
Kelly & Jones Co., Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Roberts Brass Mfg. Co., Detroit, Mich.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Woods Valve & Machine Co., Steubenville, O.

## 2072— Cocks (Dial)

Essex, G. B. Brass Co. ("Essex"), Detroit, Mich.
Hays Mfg. Co., Erie, Pa.

## 2072a— Cocks (Drain)

**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)

## 2073— Cocks (Float)

**SIMMONS, JOHN CO. ("Rothchild"),** 104 Centre, New York. (See adv. index, end of book)

## 2074— Cocks (Four-Way)

**SCHAEFFER & BUDENBERG MFG.** Co. (Nickel Plated), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2075—Cocks( Gas Engine)

Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Woods Valve & Machine Co., Steubenville, O

## 2076— Cocks (Gas Meter)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
American Meter Co., 561 W 47th, New York
Campbell, J. B. Brass Works, Erie, Pa.
Crane Valve Co., Bridgeport, Conn.
Elkhart Brass Mfg. Co., Elkhart, Ind.
Hays Mfg. Co., Erie, Pa.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Mueller, H. Mfg. Co., Decatur, Ill.
National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
Rockford Brass Works (Lock Wing Union), Rockford, Ill.
Stebbins, E., Mfg. Co., Springfield, Mass.
Woods Valve & Machine Co., Steubenville, O.

## 2077—Cocks (Gas Service)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis. Mo.
American Meter Co., 561 W 47th, New York
American Safety Lamp & Mine Supply Co., Scranton, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Boston Steam Specialty Co., 170 Congress, Boston, Mass.
Buckeye Iron & Brass Works, Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.
Chambers & Co., Newark, N. J.
Cleveland Bronze & Brass Works, Cleveland, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Dart, E. M. Mfg. Co., Providence, R. I.
Detroit Brass Works, Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Elkhart Brass Mfg. Co., Elkhart, Ind.
Everhart Brass Works, Scranton, Pa.
Exeter Brass Works, Exeter, N. H.
Farnan Brass Works, Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.
Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
Haydenville Co., Haydenville, Mass. Mass.
Hays Mfg. Co., Erie, Pa.
Healey, Peter, Evansville, Ind.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
Kinsey & Mahler Co., Peoria, Ill.
Kitson Co. ("Kitson"), 1224 Callowhill, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
McDonald, A. Y. Mfg. Co., Dubuque. Ia.
McNab & Harlin Mfg. Co.. 56 John. New York
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Meyer-Sniffen Co., 11 W 36th. New York
Michigan Brass & Iron Co., Detroit, Mich.
Mueller, H. Mfg. Co., Decatur. Ill.
**NASON MFG. CO., 71 Fulton. New** York. (See adv. index, end of book)
National Supply Co., Toledo, O.

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National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
Naugatuck Malleable Iron Co., Naugatuck,
Nelson, N. O. Mfg. Co., St. Louis, Mo. Conn.
Nichol, Thos. J. & Co., Cincinnati, O.
Nolte Brass Co., Springfield, O.
Ohio Pump & Brass Co., Columbus, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Peck Bros. & Co., New Haven, Conn.
Perkes, Chas. 627 Arch, Philadelphia, Pa.
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron Works, Cincinnati, O.
Reg[illegible] Co., Westminster, Md.
Rockford Brass Works, Rockford, Ill.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Smith, A. P. Mfg. Co., East Orange, N. J.
Spence Mfg. Co., S. Milwaukee, Wis.
Stebbins, E. Mfg Co., Springfield, Mass.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Woods Valve & Machine Co., Steubenville, O.

## 2078– Cocks (Gas Stove)

Detroit Brass Works, Detroit, Mich.
Hays Mfg. Co., Erie, Pa.
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Roberts Brass Mfg. Co., Detroit, Mich.
Rockford Brass Works, Rockford. Ill.
Stebbins, E. Mfg. Co., Springfield, Mass.
Woods Valve & Machine Co., Steubenville, O.

## 2079–Cocks (Gasoline Shut-Off)

Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.

## 2080– Cocks (Gauge)

American Steam Gauge & Valve Mfg. Co., 212 Camden, Boston, Mass.
Ashcroft Mfg. Co. (Locomotive, etc.), 85 Liberty, New York. Works, Bridgeport, Conn
**Ashton** Valve Co., 271 Franklin, Boston, Mass
Belfield, H. & Co., 435 Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Bordo, L. J. (Inc.) ("Bordo") 12th & Thompson, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Cadman, A. W. Mfg. Co. (High Pressure, etc.), 2814 Smallman, Pittsburg, Pa.
Canton Brass & Machine Co., Canton, O.
Capitol Brass Works (Compression), Detroit, Mich.
Chaplin-Fulton Mfg. Co. ("Bingham's" Self Grinding), 30 Penn av, Pittsburg, Pa
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices end of book)
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Detroit Brass Wks. Detroit, Mich.
Eastwood Wire Mfg. Co. (Iron Ball, etc.), Belleville, N. J.
Edna Brass Mfg. Co. (Steam, with Union), Cincinnati, O.
Erie Mfg. & Supply Co. ("The Cube"). Erie, Pa.
Everhart Brass Works (Improved Ball), Scranton, Pa.
Farnan Brass Works, Cleveland, O.
Fewlass-Leen Brass & Iron Co., Cincinnati, O.
Hamlin & Emery Brass Co., 26 Island, Boston.
Haydenville Co., Haydenville, Mass. Mass
Hills McCanna Co. (High Pressure), 153 W Kinzie, Chicago, Ill.
Huyette, Paul B. Co. ("P. B. H." Quick Opening, Self-Closing, Weighted), Betz bldg, Phila., Pa.
Jarecki Mfg. Co. ("Pet"), Erie, Pa., & Pittsburg, Pa.
Jenkins Bros., 82 White, New York
Jerguson Mfg. Co. ("Wiltbonco"), 221 Columbus av, Boston, Mass.
Kelly & Jones Co., Pittsburg, Pa.
Kinsey & Mahler Co., Peoria, Ill.
Konold, M. J. Co. (Also Locomotive), Pittsburg, Pa.
Lonergan, J. E. & Co. (Locomotive, Compression, Weighted, etc.), 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Excelsior"),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO. ("Victor,"** "Acme," "Little Giant" & "Mississippi" Gauge Ball), 227 Campbell av, Detroit, Mich. (See adv. index, end of book)
**MARION MACHINE, FOUNDRY &** Supply Co. ("Alexander"), Marion, Ind. (See adv. index, end of book)
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
Michigan Lubricator Co. ("Michigan" Compression Chain Lever, etc.), Detroit, Mich.
Murray Automatic Boiler Co., Detroit, Mich.
**NASON MFG. CO. ("Nason-Aetna"),** 71 Fulton, New York. (See adv. index, end of book)
**NATIONAL GAUGE CO. (Compression),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Tube Co., Pittsburg, Pa.
Nolte Brass Co., Springfield, O.
Ohio Brass Co. ("Collin," "Ohio"), Mansfield, O.
Ohio Injector Co., Wadsworth, O.
Peck Bros. & Co. New Haven, Conn.
Perkes, Chas., 627 Arch, Phila., Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** ("Pittsburgh" & "Gaco" Rotating, Locomotive, "Pittsburgh" Screw Operated), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Powell, Wm. Co., Cincinnati, O.
**Pratt & Cady Co.,** Hartford, Conn.
**Queen City Brass & Iron Works,** Cincinnati, O.
**Reliance Gauge Column Co. ("Reliance" Lever Chain),** Cleveland, O.
Roberts Brass Mfg. Co., Detroit, Mich.
**Rundel-Spence Mfg. Co.,** Milwaukee, Wis.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**Sherwood Mfg. Co., Buffalo, N. Y.**
**Standard Brass Wks.,** Detroit, Mich.
**Star Brass Mfg. Co. ("Hoyt's").** Boston, Mass.
**Sterling & Skinner Mfg. Co.,** Detroit, Mich.
Swift Lubricator Co., Elmira, N. Y.
United States Gauge Co. (Steam Gauge & Syphon), 67 Wall, New York
Vaile & Kimes ("V. & K.," "Actna"), Dayton, O.
Walworth Mfg. Co., 128 Federal, Boston, Mass.
Webb, Elisha & Son, 136 S. Front, Phila., Pa.
Williams Gauge Co. (Williams Rotating & Regrinding), Pittsburg, Pa.
Woods Valve & Machine Co., Steubenville, O.
Wright Mfg. Co., Detroit, Mich.
Wright Specialty Mfg. Co., Youngwood, Pa.

## 2081–Cocks (Hard Rubber)

American Hard Rubber Co. (For Chemical & Dye Works), 11 Mercer, New York

## 2082– Cocks (Hose)

Hays Mfg. Co., Erie, Pa.
Knox Mfg. Co., 704 Arch, Phila., Pa.
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.

## 2083– Cocks (Hydrant)

Campbell, J. B. Brass Works, Erie, Pa.
Detroit Brass Works (Ground Key), Detroit, Mich.
Hays Mfg. Co., Erie, Pa.
Kinsey & Mahler Co., Peoria, Ill.
National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.

## 2084– Cocks (Indicator)

American Lubricator Co. (Three-Way for Engine Cylinders), Detroit, Mich.
Hays Mfg. Co., Erie, Pa.
Lonergan, J. E. & Co. (Three-Way), Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan" Three-Way), Detroit, Mich.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Sherwood Mfg. Co. (Three-Way), Buffalo, N. Y.
Star Brass Mfg. Co. (Three-Way), 103 E Dedham, Boston, Mass.
Trill Indicator Co. (Straight & Three-Way), Corry, Pa.

## 2085–Cocks (Inverted Key)

American Fdry. & Mfg. Co., St. Louis, Mo.
Central Brass Mfg. Co., Cleveland, O.
Fries & Co., Buffalo, N. Y.
Glauber Brass Mfg. Co., Cleveland, O.
Hays Mfg. Co., Erie, Pa.
Monarch Brass Co., Cleveland, O.
Mueller, H. Mfg. Co., Decatur, Ill.
Sanitary Co., Cleveland, O.
United Brass Mfg. Co., Cleveland, O.

## 2086–Cocks (Lead Lined Iron)

Lead Lined Iron Pipe Co., Wakefield, Mass.

## 2087– Cocks (Liquor)

Best, W. N. & Son (Oil Cocks), 11 B'way, New York
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 2088– Cocks (Locking)

Homestead Valve Mfg. Co. ("Homestead"), Homestead, Pa.

## Cocks (Locomotive Cylinder)

(See Cocks, Cylinder)

## 2089–Cocks (Natural Gas)

American Fdry. & Mfg. Co., St. Louis, Mo.
Buckeye Iron & Brass Works, Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Fries & Co., Buffalo, N. Y.
Glauber Brass Mfg. Co., Cleveland, O.
Hays Mfg. Co., Erie, Pa.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 2090–Cocks (Newport Pattern)

Campbell, J. B. Brass Works, Erie, Pa.
Central Brass Mfg. Co., Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
McNab & Harlin Mfg. Co., 56 John, New York
Mueller, H. Mfg. Co., Decatur, Ill.
Sanitary Co., Cleveland, O.
Stebbins, E. Mfg. Co., Springfield, Mass.
Walworth Mfg. Co., Boston, Mass.

## Cocks (Oil)

(See Cocks, Liquor)

## 2091– Cocks (Plug)

B. & B. Coupling Co., Peoples Gas bldg, Chicago, Ill.
Best, W. N. & Son, 11 B'way, New York
Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.
Golden-Anderson Valve Specialty Co. ("Anderson" Balanced), Fulton bldg, Pittsburg, Pa.
Hays Mfg. Co., Erie, Pa.
Judson Governor Co. (Asbestos Packed, Iron, Brass or Aluminum), Rochester, N. Y.
Kelly & Jones Co., Pittsburg, Pa.
**LUNKENHEIMER CO. (Packed),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
Watson, Frye & Co. (Acid Proof), Bath, Me.
Waukegan Brass Mfg. Co., Waukegan, Ill., & 150 Michigan, av, Chicago, Ill.
Woods Valve & Machine Co., Steubenville, O.

## 2092–Cocks (Priming Cup)

Detroit Brass Works, Detroit, Mich.
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Sterling & Skinner Mfg. Co., Detroit, Mich.

## 2093–Cocks (Refrigerator)

Landers, Frary & Clark, New Britain, Conn.
Woods Valve & Machine Co., Steubenville, O.

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## 2094— Cocks (Relief)

**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
Roberts Brass Mfg. Co., Detroit, Mich.
Woods Valve & Machine Co., Steubenville, O.

## 2095— Cocks (Ship)

Bishop's, Wm. Sons, 18 James, New York
Sands, Alfred B. & Son, 20 Vesey, New York
Woods Valve & Machine Co., Steubenville, O.

## 2096—Cocks (Spring Key)

**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**

## 2097— Cocks (Steam)

B. & B. Coupling Co., People's Gas bldg, Chicago, Ill.
Belknap Mfg. Co., Bridgeport, Conn.
Bordo, L. J. Co., 12th & Thompson, Phila., Pa.
**Buckeye Iron & Brass Wks., Dayton, O.**
**Campbell, J. B. Brass Works, Erie, Pa.**
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. **(See adv. index & branch offices, end of book)**
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)**
Dart Mfg. Co., E. M., Providence, R. I.
Detroit Brass Works (Also Service), Detroit Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Everhart Brass Works, Scranton, Pa.
Fewlass-Leen Brass & Iron Co., Cincinnati, O.
Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
**Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.**
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
**Hoffmann & Billings Mfg. Co., Milwaukee,**
Jarecki Mfg. Co., Erie, & Pittsburg, Pa. Wis.
**Lamp & Miller Mfg. Co., Milwaukee, Wis.**
**Lonergan & Co., J. E., Philadelphia, Pa.**
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
McNab & Harlin Mfg. Co. (Brass & Iron). 56 John, New York
McGowan, John H. Co., Cincinnati, O.
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index. end of book)
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**NATIONAL GAUGE CO. ("National"),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
Nichol, Thos. J. & Co., Cincinnati, O.
Nolte Brass Co., Springfield, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**Peck Bros. & Co., 125 Chestnut, New Haven.**
**Perkes, Charles, Philadelphia, Pa. Conn.**
**Pittsburg Brass Mfg. Co., Pittsburg, Pa.**
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron Works, Cincinnati, O.
Regester Co., Westminster, Md.
Roberts Brass Mfg. Co., Detroit, Mich.
**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
**SIMMONS, JOHN CO., 104 Centre,** New York. **(See adv. index, end of book)**
Standard Brass Works, Detroit, Mich.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

## 2098—Cocks (Stop & Waste)

Acme Brass Works, Cleveland, O.
American Brass Mfg. Co., 1525 E. 49th, Cleveland, O.
American Foundry & Mfg. Co., St. Louis, Mo.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Asbell, S. J. Co., Paterson, N. J.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Boston Steam Specialty Co., 170 Congress, Boston, Mass.
**Buckeye Iron & Brass Works, Dayton, O.**
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Campbell, J. B. Brass Works (Compression), Erie, Pa.
Central Brass Mfg. Co., Cleveland, O.
Central Brass Works Co. ("Standard"), Kansas
**Chambers & Co., Newark, N. J. City, Mo.**
Cleveland Bronze & Brass Works (Anti-Freezing), Cleveland, O.
Consolidated Casting Co. ("T-S"), Mechanicsville, N. Y.
Cooper Sanitary Mfg. Co., 17th & Cuthbert, Phila., Pa
Crampton-Farley Brass Co., Kansas City, Mo.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**Dart, E. M. Mfg. Co., Providence, R. I.**
D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Brass Works, Detroit, Mich.
Eastwood Wire Mfgg. Co., Belleville, N. J.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works, Exeter. N. H.
Farnan Brass Works, Cleveland, O.
Fries & Co. ("Buffalo"), Buffalo, N. Y.
Frost Mfg. Co., Kenosha, Wis.
Glauber Brass Mfg. Co., Cleveland, O.
**Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.**
Hamilton Jno. Brass Works, Bridgeport, Conn.
Hamlin & Emery Brass Co. ("Newport" & "Fitchburg"), 26 Island, Boston, Mass.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Healey. Peter, Evansville, Ind.
Hercules Iron & Supply Co., 427 Commercial, Boston, Mass.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Humphreys Mfg. Co., Mansfield, O.
Jarecki Mfg. Co., Erie, Pa.
**Jost's, Edmund Sons, Newark, N. J.**
**Kelly, Thos. & Bros. ("Kelly"), 422 S 45th** ct, Chicago, Ill.
Kelly & Jones Co. ("Universal"), 135 Water. Pittsburg, Pa.
Kinsey & Mahler Co., Peoria. Ill.
Knox Mfg. Co., 704 Arch, Phila., Pa.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark ("Simplex"), New Britain, Conn.
**LUNKENHEIMER CO. (Stop Only),** General Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
**McDonald, A. Y. Mfg. Co., Dubuque, Ia.**
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index. end of book)
Meyer-Sniffen Co., 11 W 36th, New York
Milwaukee Brass Mfg. Co. (Fuller & Compression), 241 Lapham, Milwaukee, Wis.
Mott, J. L. Iron Works, 118 5th av, New York
Mueller. H. Mfg. Co., Decatur, Ill.
National Supply Co., Baltimore, Md.
National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
Naugatuck Malleable Iron Co., Naugatuck, Conn.
Nichol, Thos. J. & Co., Pearl & Ludlow, Cincinnati, O.
Nolte Brass Co., Springfield, O.
Ohio Pump & Brass Co., Columbus, O.
Park & McKay Co., Detroit. Mich.
Peck Bros. & Co., New Haven, Conn.
Perkes. Chas., 627 Arch, Phila., Pa.
Pioneer Brass Works, Indianapolis, Ind.
Powhatan Brass & Iron Works, Charlestown.
Pratt & Cady Co., Hartford, Conn. W. Va.
Regester Co., Westminster, Md.
Richter Co.. Cincinnati, O.
Roberts Brass Mfg. Co. (Compression), Detroit,
Rockford Brass Works, Rockford, Ill. Mich.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago.
Sanitary Co., Cleveland, O. Ill
Savill, Thos. & Sons, 11th & Wood. Phila., Pa
Scully, W. J. Ventilator & Mfg. Co., Detroit.
Spence Mfg. Co., South Milwaukee, Wis. Mich.
Standard Brass & Iron Works (Straightway Stop Cocks. etc.), Milwaukee, Wis
**Standard Sanitary Mfg. Co., Bessemer bldg** Pittsburg, Pa
Stebbins. E. Mfg. Co., Springfield. Mass.
Street & Kent Mfg. Co., 549 Fulton, Chicago. Ill
Syracuse Faucet & Valve Co. (No Packing) Syracuse, N. Y
Trenton Brass & Machine Co., Trenton, N. J.
Union Brass & Metal Mfg. Co., St. Paul, Minn
United Brass Mfg. Co., Cleveland, O.
Walworth Mfg. Co., Boston, Mass.
Watters, W. W. ("Watters," Combination), Rome, Ga.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
**Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.**
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

## 2099—Cocks (Three-Way)

Hays Mfg. Co., Erie, Pa.
Homestead Valve Mfg. Co. (Also Four Way), Homestead, Pa.
Kelly & Jones Co., Pittsburg, Pa.
National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices. end of book)
Standard Brass & Iron Works (Male or Female Connections). Milwaukee, Wis.
Woods Valve & Machine Co., Steubenville, O.

## 2100— Cocks (Throttle)

**LUNKENHEIMER CO. (Oil-Air),** General Offices & Works, Beekman & Waverly, Cincinnati. O. (See adv. index & branch offices, end of book)

## 2100a—Cocks (Traction Engine)

**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index. end of book)

## 2101— Cocks (Tuyere)

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURG VALVE FOUNDRY &** Construction Co. ("Atwood" Brass Cast), 26th & A. V. Ry, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Woods Valve & Machine Co., Steubenville, O.

## 2102—Cocks & Bibbs (Compression)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Brookside Brass Foundry & Mfg. Co., Cleveland, O.
Burlington Brass Works, Burlington, Wis.
Campbell, J. B. Brass Works, Erie, Pa.
Capitol Brass Works, Detroit, Mich.
Central Brass Mfg. Co. ("Quick Pression Work"), Cleveland, O.
Chambers & Co., Newark, N. J.
Clark Novelty Co., Rochester, N. Y.
Cleveland Bronze & Brass Works Cleveland, O.
Clow, Jas. B. & Sons, Chicago, Ill.
Cooper Sanitary Mfg. Co., 17th & Cuthbert, Phila., Pa.
Cox Brass Mfg. Co. (Ltd.), Albany, N. Y.
Crampton-Farley Brass Co., Kansas City, Mo.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Dalton-Ingersoll Co., 169 High, Boston, Mass.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
DuBois, Fred'k N., 247 9th av, New York
Edwardsville Brass Co., Edwardsville, Ill.
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Farnan Brass Works, Cleveland, O.
Federal-Huber Co., Halsted & Fulton, Chicago,
Glauber Brass Mfg. Co., Cleveland, O. Ill.
Haines, Jones & Cadbury Co., 1137 Ridge av, Philadelphia, Pa.
Hamilton, Jno. Brass Works, Bridgeport, Conn.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Healey. Peter, Evansville, Ind.
Hoffman, B. Mfg. Co., 257 6th Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila, Pa.
Humphreys Mfg. Co., Mansfield, O.
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Kelly & Jones Co., 137 Water, Pittsburg, Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.

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Landers, Frary & Clark, New Britain, Conn.
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Mayor, Lane & Co., 340 Hudson, New York
Meyer-Sniffen Co., 11 W 36th, New York
Miller Foundry & Specialty Co. (With Removable Seats), North Tonawanda, N. Y.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mowry & Phillips ("Zane's"), Boston, Mass.
Mueller, H. Mfg. Co., Decatur, Ill.
National Supply Co., Baltimore, Md.
Naugatuck Malleable Iron Co., Naugatuck, Conn.
Nelson, N. O. Mfg. Co., St. Louis, Mo. Conn.
Nichol, Thos. J. & Co., Pearl & Ludlow, Cincinnati O.
Nolte Brass Co., Springfield, O.
Peck Bros. & Co., New Haven, Conn.
Perkes, Chas., 627 Arch, Phila., Pa.
Regar Co. ("Regar"), Cleveland, O.
Regester Co., Westminster, Md.
Roberts Brass Mfg. Co., Detroit, Mich.
Rome Brass & Copper Co., Rome, N. Y.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sanitary Co., Cleveland, O.
Speakman Supply & Pipe Co., Wilmington, Del.
Spence Mfg. Co., So. Milwaukee, Wis.
Stebbins, E. Mfg. Co. ("Esco"), Springfield, Mass.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Trenton Brass & Machine Co., Trenton, N. J.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.
Walworth Mfg. Co., Boston, Mass.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Weiskittel, A. & Son, Baltimore, Md.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 2103—Cocks & Bibbs (Fuller Work)

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Bay State Brass Co., 43 Cedar, New York; Works: Haydenville, Mass.
Burlington Brass Works, Burlington, Wis.
Central Brass Mfg. Co., Cleveland, O.
Century Brass Mfg. Co., Cattaraugus, N. Y.
Chambers & Co., Newark, N. J.
Chicago Faucet Co., 315 S Clinton, Chicago, Ill.
Cleveland Bronze & Brass Wks, Cleveland, O.
Clow, Jas. B. & Sons, 314 Franklin, Chicago, Ill.
Columbus Brass Co., Columbus, O.
Cooper Sanitary Mfg. Co., 17th & Cuthbert, Phila., Pa.
Crampton-Farley Brass Co., Kansas City, Mo.
Dalton-Ingersoll Co., Boston, Mass.
Dearborn Brass Co., Cedar Rapids, Ia.
Edwardsville Brass Co., Edwardsville, Ill.
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Federal-Huber Co., Halsted & Fulton, Chicago, Ill.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av, Phila., Pa.
Haydenville Co., Haydenville, Mass.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Humphryes Mfg. Co., Mansfield, O.
Illinois Malleable Iron Co., 1801 Diversey blvd. Chicago, Ill.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
Meyer-Sniffen Co., 11 W 36th, New York
Michigan Brass & Iron Works, Detroit, Mich.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Milwaukee Valve Co., Milwaukee, Wis.
Mueller, H. Mfg. Co., Decatur, Ill.
Naugatuck Malleable Iron Co., Naugatuck,

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

Nelson, N. O. Mfg. Co., St. Louis, Mo. Conn.
Peck Bros. & Co., New Haven, Conn.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Regar Co. ("Regar"), Cleveland, O.
Rome Brass & Copper Co., Rome, N. Y.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co. ("Faultless"), 105 S Jefferson, Chicago, Ill.
Sanitary Co., Cleveland, O.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Weiskittel, A. & Son, Baltimore, Md.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 2104—Cocks & Bibbs (Ground Key)

Asbell, S. J. Co., Paterson, N. J.
Buckeye Iron & Brass Works, Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.
Chambers & Co., Newark, N. J.
Cleveland Bronze & Brass Works, Cleveland, Ohio
Dart, E. M. Mfg. Co. (Cocks Only, Gas. Water & Steam Self-Lubricating), Providence, R. I.
Exeter Brass Works, Exeter, N. H.
Farnan Brass Works, Cleveland, O.
Federal-Huber Co., Halsted & Fulton, Chicago, Ill.
Fisher, E. W. Co., Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Healy, P., Evansville, Ind.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Humphryes Mfg. Co., Mansfield, O.
Jost's, Edmund Sons, Newark, N. J.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Keystone Brass Co., Erie, Pa.
Kinsey & Mahler Co., Peoria, Ill.
Kitson Co. ("Kitson"), 1224 Callowhill, Phila., Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
McCambridge & Cooper Co., 1423 Walnut, Phila, Pa.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Meyer-Sniffen Co., 11 W 36th, New York
Mott, J. L. Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co., Decatur, Ill.
Naugatuck Malleable Iron Co., Naugatuck, Conn.
Nichol, Thomas J. & Co., Cincinnati, O.
Ohio Pump & Brass Works, Columbus, O.
Peck Bros. & Co., New Haven, Conn.
Pioneer Brass Works, Indianapolis, Ind.
Powell, Wm. Co., Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Queen City Brass & Iron Works, Cincinnati, O.
Regar Co. ("Regar"), Cleveland, O.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Russ, A. E. Mfg. Co., 6813 Wade Park av, N E, Cleveland, O.
Sanitary Co., Cleveland, O.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Scully, W. J. Ventilator & Mfg. Co., Detroit, Mich.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Trenton Brass & Machine Co., Trenton, N. J.
United Brass Mfg. Co., Cleveland, O.
United Metal Mfg. Co., 525 W 26th, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 2105—Cocks & Bibbs (Self-Closing)

American Automatic Faucet Co., 114 State, Boston, Mass.
Barclay, Peter Co., 68 Broad, Boston, Mass.
Bashlin Co., Warren, Pa.
Brookside Brass Mfg. Co., Cleveland, O.
Central Brass Works Co., Kansas City, Mo.
Chambers & Co., Newark, N. J.
Chicago Faucet Co. ("Chi-Fau-Co." Faucet), 315 S Clinton, Chicago, Ill.
Clark Novelty Co., Rochester, N. Y.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Consolidated Casting Co. ("T-S" Self-Closing Mixing Cock for Bath or Shower), Mechanicsville, N. Y.
Crampton-Farley Brass Co. ("Farley"), Kansas City, Mo.
Dalton-Ingersoll Co., Boston, Mass.
Dayton Mfg. Co., Dayton, O.
Dearborn Brass Co., Cedar Rapids, Ia.
DuBois, Fred'k N., 247 9th av, New York
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Federal-Huber Co. ("Watrous," "Perry," "Cornell"), Halsted & Fulton, Chicago, Ill.
Gilmour, J. Morrison, 90 West, New York
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av, Phila., Pa.
Haydenville Co., Haydenville, Mass.
Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Kelly, Thos. & Bros., Congress & 46th av, Chicago, Ill.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Loeffelholz Co., Milwaukee, Wis.
McCambridge & Cooper Co., 1423 Walnut, Phila., Pa.
Merrie, Hugh, 124 E 8th, Cincinnati, O.
Meyer-Sniffen Co., 11 W 36th, New York
Michigan Lubricator Co., Detroit, Mich.
Milwaukee Brass Mfg. Co. ("Engel," "Peerless," "Telegraph"). Milwaukee, Wis.
Milwaukee Valve Co., Milwaukee, Wis.
Mowry & Phillips ("Zane's"), Boston, Mass.
Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's, Jas. Sons, 141 E 25th, New York
Naugatuck Malleable Iron Co., Naugatuck, Conn.
Peck Bros. & Co. ("Moore's," "Dougherty," "Boston"), New Haven, Conn.
Perkes, Chas., 627 Arch, Phila., Pa.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Rundle-Spence Mfg. Co. ("Telegraph"), Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sanitary Co. ("Doherty" Paragon), Cleveland, Ohio
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Scoville, E. U., Manlius, N. Y.
Smith & Anthony Co. ("McHugh," "Cornell"), 48 Union, Boston, Mass.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins, E. Mfg. Co. ("Broughton"), Springfield, Mass.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Superior Mfg. & Tool Co., Cleveland, O.
Syracuse Faucet & Valve Co. (No Packing), Syracuse, N. Y.
United Metal Mfg. Co., 525 W 26th, New York
Walsh, Richard & Sons, Detroit, Mich.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Young, E. R. & Sons, Titusville, Pa.

## Coffee Urns

(See Cooking Apparatus)

## 2106—Cofferdams (Water-Tight)

**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)

## 2107— Cogs (Wood)

Menasha Wood Split Pulley Co., Menasha., Wis.
Nordyke & Marmon Co. (For Mortise Gears), Indianapolis, Ind.
Thompson Mfg. Co., Lancaster, N. H.
Woolbert, Chas. W., Elmer, N. J.

## 2108— Coilers (Wire)

Baird Machine Co., Oakville, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
Turner, Vaughan & Taylor Co., Cuyahoga Falls, Ohio

## Coiling Machines

(See Spring Coiling Machines)

## 2109—Coils (Armature & Field)

American General Engineering Co. ("A-G-E"), 253 B'way, New York
Belden Mfg. Co., 2316 S Western av, Chicago, Ill.
Chattanooga Armature Works (Frank Steffner, Propt.), Chattanooga, Tenn.

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Cleveland Armature Works, 4732 St. Clair av, N E. Cleveland, O.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Columbus Electrical Works Co., Columbus, O.
D & W Fuse Co., Providence, R. I.
Dittrick & Jordan Elec. Co., Cleveland, O.
Doubleday-Hill Elec. Co., Pittsburg, Pa.
Elliott, S. K. Electric Co., Cleveland, O.
Elliott-Thompson Electric Co., Cleveland, O.
Electric Cable Co. ("Voltax"), Bridgeport, Conn.
Electric Traction Supply Co., St. Louis, Mo.
Garton, W. R. Co. ("Heany"), 617 W Jackson blvd, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Heany Fire-Proof Wire Co., 1733 B'way, New York
McLeer Electric & Mfg. Co. (Mumified), 254 36th, Brooklyn, N. Y.
Morris Iron Co., 90 West, New York
Oliver Electric & Mfg. Co., St. Louis, Mo.
Ridlon, Frank Co., Boston, Mass.
**ROEBLING'S, JNO. A. SONS, Main** Office, Trenton, N. J.; Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Stuart-Howland Co., Boston, Mass.
Traction Material Co., 50 Church, New York
Van Dorn & Dutton Co., Cleveland, O.
Wesco Supply Co. ("Wesco"), St. Louis, Mo.
Western Electric Co. ("Ruhmkorff"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg,, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Youngstown Armature & Construction Co., Youngstown, O.

## 2110—Coils (Copper, Brass & Silver)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 2111—Coils (Gas Lighting Spark)

Acme Wire Co., New Haven, Conn.
American Electrical Works, Phillipsdale, R. I.
Dow Mfg. Co., Braintree, Mass.
Electric Goods Mfg. Co., Boston, Mass.
Engeln & Co., Cleveland, O.
Hercules Electric Co., Indianapolis, Ind.
Holtzer-Cabot Elec. Co., Brookline, Mass.
Manhattan Electrical Supply Co., 17 Park pl, New York
National Coil Co., Lansing, Mich.
Ostrander, W. R. & Co., 22 Dey, New York
P-R Mfg. Co., Detroit, Mich.
Splitdorf, C. F., 261 Walton av, New York

## 2112— Coils (Induction)

Acme Wire Co., New Haven, Conn.
American Coil Co. ("American" For Jumps Spark Ignition, etc.), Foxboro, Mass.
American Electric Fuse Co., Muskegon, Mich.
American Electric Telephone Co., 64th & State, Chicago, Ill.
Bunnell, J. H. & Co., Park pl. & Church, New York
Carstarphen Electric Co., Denver, Colo.
Craigie-Conant Electric Mfg. Co., Westbrook, Me.
Electric Goods Mfg. Co., Boston, Mass.
Harvard Electric Co., 523 W Van Buren, Chicago, Ill.
Kelley-Kaett Mfg. Co., Covington, Ky.
Kellogg Switchboard & Supply Co., Green & Congress, Chicago, Ill.
Knoblock-Heideman Mfg. Co., South Bend, Ind.
McIntosh Battery & Optical Co., 225 E Washington, Chicago, Ill.
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Electric Mfg. Co., Menominee, Mich.
Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Pearce, Fred'k Co., 20 Rose, New York
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Roentgen Mfg. Co. ("Jumbo"), 226 Ionic, Phila., Pa.
Scheidel-Western X-Ray Coil Co., 547 W Jackson blvd, Chicago, Ill.
Splitdorf, C. F., 261 Walton, New York
Thordarson Elec. Mfg. Co., 216 S Jefferson, Chicago, Ill.
Vote-Berger Co., La Crosse, Wis.
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.
Williams, E. Q., Syracuse, N. Y.

## 2113—Coils (Phosphor Bronze)

**Riverside Metal Co., Riverside, N. J.**

## Coils (Pipe)

(See Pipe Bends & Coils)

## 2114— Coils (Resistance)

American Electrical Works, Phillipsdale, R. I.
Bunnell, J. H., & Co., Park pl. & Church, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gurley, W. & L. E ("Decade"), Troy, N. Y.
International Brass & Electric Co., 76 Beekman, New York
Kellogg Switchboard & Supply Co., Chicago, Ill.
**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)
Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Philadelphia Electric Construction Co., 910 Filbert, Phila., Pa.
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Roller-Smith Co., 203 B'way, New York; Works: Bethlehem, Pa.
Ward, Leonard Elec. Co., Bronxville, N. Y.
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.

## 2115— Coils (Spark)

American Coil Co. ("Jump"), Foxboro, Mass.
American Electric Fuse Co. ("Americoil"), Muskegon, Mich.
American Electrical Works, Phillipsdale, R. I.
Autocoil Co. ("Jumphlame," "Owners"), Jersey City, N. J.
Bunnell, J. H. & Co., Park pl. & Church, New York
Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
Capitol Electric Engineering Co. (Gas Engine Igniting), Lansing, Mich.
Central Insulating Co. ("Cartridge" Iron Clad Igniter, for All Purposes), Lafayette, Ind.
Champion, Albert Co., Boston, Mass.
Champion Ignition Co., Flint, Mich.
Connecticut Telephone & Electric Co. (Inc.) ("Connecticut"), Meriden, Conn.
Dayton Electrical Mfg. Co. ("Dayton") Day-ton, Ohio
Dow Mfg. Co., Braintree, Mass.
Duplex Coil Co., Fond du Lac, Wis.
Edison Mfg. Co., Orange, N. J.
Eldridge Electrical Mfg. Co., Eldridge, N. Y.
Electric Goods Mfg. Co., 144 Pearl, Boston, Mass.
Electrical Appliance Co., Waterbury, Conn.
Engeln & Co. (Gas Lighting), Cleveland, O.
Foote, Pierson & Co., 160 Duane, New York
Goodson Electric & Mfg. Co., Providence, R. I.
Gordon's Auto Supply Co. ("Eisner"), Boston, Mass.
Heinze Electric Co. (for Automobiles, X-Rays & Wireless Telegraphy), Lowell, Mass.
Herz & Co., 203 Lafayette, New York
Holtzer-Cabot Electric Co., Brookline, Mass.
Huff, E. S. Co., Detroit, Mich.
International Brass & Electric Co. (For X-Ray, Wireless Telegraphy, etc.), 76 Beekman, New York
Knoblock-Heideman Mfg. Co., South Bend, Ind.
Kokomo Electric Co. ("Kingston"), Kokomo, Ind.
Leland, Wm. H. & Co. ("Worcester"), Worcester, Mass.
Lemke Electric Co. (High Tension Jump & Make & Brake), Milwaukee, Wis.
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Elec. Mfg. Co., Menominee, Mich.
**MORRIS ELECTRIC CO., Wilmington, Del.**
Motor Car Supply Co., 1425 Michigan av, Chicago, Ill.
Muskegon Coil Co. ("Mus-Kee-Gon"), Muskegon, Mich.
National Coil Co. ("Capitol"), Lansing, Mich.
New York Coil Co. ("Fire Ball," "Economic" & "Challenge"), 338 Pearl, New York
Noxon, C. Per Lee, Syracuse, N. Y.
Nungesser Electric Battery Co., Cleveland, O.
Ohio Electric Works, Cleveland, O.
P. R. Mfg. Co., Detroit, Mich.
Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Pfanstiehl Electrical Laboratory (Inc., "X-Ray"), North Chicago, Ill.
Pittsfield Spark Coil Co. ("Pittsfield"), Dalton, Mass.
Remy Electric Co., Anderson, Ind.
Schug Electric Mfg. Co., Detroit, Mich.
Seidler-Miner Electric Co., Detroit, Mich.
Splitdorf, C. F., 261 Walton, New York
Thordarson Elec. Mfg. Co., 216 S Jefferson, Chicago, Ill.
Tritt Electric Co., Union City, Ind.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Williams, E. Q., Syracuse, N. Y.
Witherbee Igniter Co. ("Wico"), 1876 B'way, New York

## Coils (Stoneware)

(See Stoneware, Chemical)

## 2116— Coke (Crushed)

Fairmont Coal Co., Baltimore, Md.
Stevens, Frederic B., Detroit, Mich.

## 2117— Coke Mfrs.

Adah Coal & Coke Co., Uniontown, Pa.
Alabama Consolidated Coal & Iron Co. (Foundry), Birmingham, Ala.
Algoma Coal & Coke Co., Algoma, W. Va.
Altoona Coal & Coke Co., Altoona, Pa.
Arlington Coal & Coke Co., Lynchburg, Va.
Atlantic Coal & Coke Co., Tunnelton, W. Va.
Battle Creek Coal & Coke Co., Orme, Tenn.
Beaver Coal & Coke Co., Hoytdale, Pa.
Beckley Coal & Coke Co., Macdonald, W. Va.
Bessemer Coal & Coke Co., Pittsburg, Pa.
Bessemer Coke Co., Pittsburg, Pa.
Blair, Reed F. & Co. (Dealers), Frick bldg, Pittsburg, Pa.
Bottom Creek Coal & Coke Co., Vivian, W. Va.
Brown & Cochran, Conestoga bldg, Pittsburg, Pa.
Bryson Mountain Coal & Coke Co., Middlesboro, Ky.
Central Coal & Coke Co., 15 William, New York
Cincinnati Gas, Coke, Coal & Mining Co., Cincinnati, Ohio
Collins Colliery Co., Macdonald, W. Va.
Colonial Coke Co., Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver, Colo.
Connellsville Central Coke Co., Empire bldg., Pittsburg, Pa.
Connellsville Mutual Coke Co., Scottdale, Pa.
Consolidated Connellsville Coke Co., Uniontown, Pa.
Crozer Coal & Coke Co., Upland, Pa., & Elkhorn, W. Va.
Crystal Coal & Coke Co., Godfrey, W. Va.
Debevoise-Anderson Co. (Dealers), 95 Liberty, New York
Donahoe Coke Co., Greensburg, Pa.
Dunn Connellsville Coke Co., Adamsburg, Pa.
Dunn Loop Coal & Coke Co., Macdonald, W. Va.
Durham Coal & Coke Co., Chattanooga, Tenn.
Elk Ridge Coal & Coke Co., Kyle, W. Va.
Empire Coke Co., Geneva, N. Y.
Fairmont Coal Co. (Foundry, Furnace & Crushed), Baltimore, Md., & 1 B'way, New York
Fieser-Bentley-Warner Co. (Wholesale), The Wyandotte, Columbus, O.
Fire Creek Coal & Coke Co., Fire Creek, W. Va.
Flat-Top Fuel Co. ("Pocahontas" Foundry), Bluefield, W. Va.
Fork Ridge Coal & Coke Co., Middlesboro, Ky.
Frick, H. C. Coke Co., Carnegie bldg, Pittsburg, Pa.
Gilliam Coal & Coke Co., Lynchburg, Va., & Gilliam, W. Va.
**GOFF, HORNER & CO., Ltd. (Wholesale Dealer, Connellsville & West Va.),** Offices, Oliver bldg., Pittsburg, Pa. (See adv. index, end of book)
Grafton Coal & Coke Co., Grafton, W. Va.
Greenwich Coal & Coke Co., Latrobe, Pa.
Hanna, M. A. & Co., Perry Payne bldg, Cleveland, O.
Harvey Coal & Coke Co., Macdonald, W. Va.
Hickman, Williams & Co. (Dealers), Louisville, Ky.
Hillman, J. H. & Son (Low Phosphorus Connellsville Blast Furnace Coke, etc.), Pittsburg, Pa.
Houston, C. B. & Co. (Dealers), Franklin Bank bldg, Phila., Pa.
Houston Coal & Coke Co., Elkhorn, W. Va.
Hostetter-Connellsville Coke Co., Pittsburg, Pa.
Hustead-Semans Coal & Coke Co., Uniontown, Pa.
Jamison Coal & Coke Co., Greensburg, Pa.
Keeley, Jerome & Co. (Dealers), 421 Chestnut, Phila., Pa.
Keister, A. L. & Co. (also Coal), Scottdale, Pa.
Keystone Coal & Coke Co., Greensburg, Pa.
Latrobe-Connellsville Coal & Coke Co. (Connellsville Coke), Latrobe, Pa.
Law, Ernest & Co. (Dealers), Harrison bldg, Phila., Pa.
Louisville Coal & Coke Co., Goodwill, W. Va.
Loyal Hanna Coal & Coke Co., Loyal Hanna, Pa.

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Lynchburg Coal & Coke Co., Lynchburg, Va.
McKeefrey & Co., Leetonia, O.
Mabscott Coal & Coke Co., Macdonald, W. Va.
Macdonald Colliery Co., Macdonald, W. Va.
Maher Coal & Coke Co., Blairsville, Pa.
Marmet-Halm Coal & Coke Co., Traction bldg, Cincinnati, O.
Maryland Coal & Coke Co., Union Trust bldg, Baltimore, Md.
Milwaukee Coke & Gas Co. (Foundry), Milwaukee, Wis.
Mingo Coal & Coke Co., Middlesboro, Ky.
Mohr, J. J. & Son (Dealers), Bullitt bldg, Phila., Pa.
Monessen Coal & Coke Co., Frick bldg, Pittsburg, Pa.
Monongahela River Consolidated Coal & Coke Co., Pittsburg, Pa.
Moore, Edgar & Co. (Mfrs. Agents), Farmers' Bank bldg, Pittsburg, Pa.
New England Gas & Coke Co., Boston, Mass.
New York & Phila. Coal & Coke Co., Produce Exchange, New York
Norton Coal Co., Norton, Va.
Oliver & Snyder Steel Co., S 10th & Muriel, Pittsburg, Pa.
Opekiska Coal & Coke Co., Connellsville, Pa.
Orient Coke Co., Uniontown, Pa.
Peerless Coal & Coke Co., Vivian, W. Va.
Penn Coke Co., Uniontown, Pa.
Penn Iron & Coal Co., Perry-Payne bldg., Cleveland, O. Works: Canal Dover, O.
Pennsylvania Coal & Coke Co., 17 Battery pl, New York
Pickands, Mather & Co., Cleveland, O.
Pilling & Crane (Jobbers in Coal & Coke), Real Estate Trust bldg, Phila., Pa.
Pittsburg-Buffalo Co., Frick bldg, Pittsburg, Pittsburg Coal Co., Pittsburg, Pa. Pa.
Pocahontas Coke Co., Bluefields, W. Va.
Pocahontas Consolidated Collieries Co., Bramwell, W. Va.
Prospect Coal & Coke Co., Searights, Pa.
Raleigh Coal & Coke Co., Raleigh, W. Va.
Republic Iron & Steel Co., Pittsburg, Pa.
Roanoke Coal & Coke Co., Worth, W. Va.
Rochester & Pittsburg Coal & Iron Co., Rochester, N. Y., & 1 B'way, New York
Rogers-Brown & Co. (Dealers), Cincinnati, O.
Runyon, Fairbank & Co. (Dealers), Citizens' bldg., Cleveland, O.
Semet-Solvay Co., Syracuse, N. Y., & Ovens, Dunbar, Pa.
Sewanee Coal, Coke & Land Co., Clouse Hill, Tenn.
Shenango Furnace Co., Pittsburg, Pa.
Shook & Fletcher (Dealers), Birmingham, Ala.
Sloss-Sheffield Steel & Iron Co., Birmingham, Ala.
Stauffer, Jos. R., Scottsdale, Pa.
Stewart Iron Co., Cleveland, O., & Sharon, Pa.
Steubenville Coal & Mining Co., Steubenville, O.
Stonega Coke & Coal Co., Stonega, Va.
Struthers Coal & Coke Co., Citizens bldg., Cleveland, O. Plant & Mine, Fairbanks, Pa.
Sugar Creek Coal & Coke Co., Macdonald, W. Va.
Taylor Coal & Coke Co., Cleveland, O.
Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.
Thacker Coal & Coke Co., Thacker Mines, W. Va.
Thacker Fuel Co., The, Union Trust bldg, Cincinnati, O.
Tidewater Coal & Coke Co., Vivian, W. Va.
Turkey Knob Coal & Coke Co., Charleston, W. Va.
Tygarts River Coal Co., Grafton, W. Va.
Tyler Coal & Coke Co. (Dealers), Land Title bldg, Phila., Pa.
United Coke & Gas Co., 17 Battery pl, New York
United Iron & Steel Co. (Foundry, etc.), Cleveland, O.
U. S. Coal & Coke Co., Carnegie bldg, Pittsburg, Pa.
Upland Coal & Coke Co., Upland, Pa., & Elkhorn, W. Va.
Virginia, Iron, Coal & Coke Co. (Furnace & Foundry), Roanoke, Va.
Virginia & Pittsburg Coal & Coke Co., Fairmont, W. Va.
Washington Coal & Coke Co., Dawson, Pa., & Pittsburg, Pa.
Yolande Coal & Coke Co. (Foundry, etc.), Birmingham, Ala.

## 2118—Coke (Metallurgical)

United Coke & Gas Co., 17 Battery pl, New York

## 2119—Coke Oven Construction

American Coke & Gas Construction Co. (With or Without the Recovery of By-Products), Camden, N. J.
Coal Distillation Co. of America ("Collin," System of By-Products, Direct Recovery of Ammonia from Gas), 149 B'way, New York
Connellsville Mfg. & Mine Supply Co. (Inc.), Connellsville, Pa.
Koppers, H. ("Kopper's" By-Product Plants), Joliet, Ill.
**LINK BELT COMPANY (For Crushing, Screening, Handling, etc.), Hunting Park av. & Reading Ry., Phila., Pa.** (See adv. index & branch offices, end of book)
United Coke & Gas Co. ("United-Otto" By-Product Plants), 17 Battery pl., New York
Warwick Construction Co., 326 Dearborn, Chicago, Ill.

## 2120—Coke (Petroleum)

Indian Refining Co., 123 William, New York
National Refining Co., Cleveland, O.

## 2121—Cold Rolling (All Flat Metals)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## Cold Storage Plant Construction

(See Ice & Refrigerating Machines)

## 2121a—Cold Water Pipe Covering ("Wyckoff" Patent Waterproof Wood)

**WYCKOFF, A. & SON CO., Elmira,** N. Y., & Alexandria, La. (See adv. index, end of book)

## Collapsible Steel Centering

(See Centering, Steel)

## 2122— Collars (Axle)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Graham Nut Co., Pittsburg, Pa.
Meyer & Co., Auburn, N. Y.

## 2123— Collars (Dog)

Brauer Bros. Mfg. Co., St. Louis, Mo.
Buchheimer, Geo. H., Baltimore, Md.
Cassady-Fairbank Mfg. Co. ("Erb"), 6106 La Salle, Chicago, Ill.
Fritz Bros., Meriden, Conn.
Graham & Berwin, 148 Chambers, New York
Medford Fancy Goods Co. (Sterling Silver), 75 Duane, New York
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Scheffer & Rossum, St. Paul, Minn.
Smith, Jas. & Son, 40 Franklin av, Brooklyn, N. Y.
Stevens, W. B. & Son, 114 Chambers, New York
Union Hardware Co., Torrington, Conn.

## 2124— Collars (Horse)

Albrecht, H. & Co., 610 Washington, St. Louis, Mo.
Allen Mfg. Co., Lawrenceville, Ga.
Appleby, T. H. & Co., Syracuse, N. Y.
Atchison Saddlery Co., Atchison, Kans.
Bach, M. W. & Co., Ottawa, Ill.
**Bellis, Wm. L., Cleveland, O.**
**Bicker & Dietz, Milwaukee, Wis.**
Biehl & Sifferman, 170 Lake, Chicago, Ill.
Blair Horse Collar Co., Blair, Neb.
**Brown & Sehler Co., Grand Rapids, Mich.**
Carter, Edward H., 243 Purchase, Boston, Mass.
Cork Faced Collar Co., Lincoln, Ill.
Dyer Saddlery Co., Milwaukee, Wis.
Given, R. & Sons Co. (Pneumatic), Sidney, O.
Harbison & Gathright, Louisville, Ky.
Hess & Hopkins Leather Co., Rockford, Ill.
Hoffman, Paul, Dubuque, Ia.
Hoover, W. H. Co., New Berlin, O.
**Humane Horse Collar Co., Omaha, Neb.**
**Indiana Collar Co., Evansville, Ind.**
**Johnston-Slocum Co., Caro, Mich.**
**Keller, A. C. Collar Co., Council Bluffs, Ia.**
Kiper, L. & Sons, 500 S Peoria, Chicago, Ill.
Langenbrunner & Co., Cincinnati, O.
McMonies, W. H. & Co., Portland, Ore.
Nies, Wm. P. Co., Newark, N. J.
Ortmayer, A. & Son, 157 W Illinois, Chicago, Ill.
Peeters Bros., Rochester, N. Y.
Powers Mfg. Co., Waterloo, Ia.
**Robinsteen Collar & Leather Co., Indiana, Pa.**
**Sells, J. H. & F. A., Columbus, O.**
**Simpson Bros., Knoxville, Tenn.**
**Smith's, Henry Sons, New Haven, Conn.**
**Smith, Worthington Co., Hartford, Conn.**
Thomson, Alex (Steel Hameless), Fitchburg, Mass
Voss-Barbee Mfg. Co., Little Rock, Ark.
**Wolf Mfg. Co., Quincy, Ill.**
**Wyeth Saddlery Co., St. Joseph, Mo.**
**Young, Benj., Milwaukee, Wis.**

## 2125— Collars (Split)

Bond Foundry & Machine Co., Manheim, Pa.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co. (For Shafting), Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
Link Chain Co., Williamsport, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Salem Foundry & Machine Works, Salem, Va.
Shaw Coupling Co. (Also Solid), Syracuse, N. Y.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Yocom, Jas. & Son (For Shafting), 145 N 2d, Phila, Pa.

## 2126—Collars (Steam Pipe)

Matthews Mfg. Co., Worcester, Mass.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 2127— Collars (Thrust)

**CONTINENTAL FIBRE CO. (Vulcanized Fibre),** Newark Centre, Del. (See adv. index & branch offices. end of book)
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)

## 2128—Collectors (Rubber)

Empire Cream Separator Co. ("Empire," Centrifugal), Bloomfield, N. J.

## 2129— Collets

Adjustable Collet Co. (Adjustable), Cleveland, Ohio
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co. (For Milling & Grinding Machines, etc.), Providence, R. I.
**CLEVELAND TWIST DRILL CO.** "Paragon," for Flat Twist Drills; also for Turret Tool Holders), Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
McCroskey Reamer Co. ("Wizard"), Meadville, Pa.
**Modern Tool Co. ("Magic"), Erie, Pa.** Pa.
National Tool Co. (Adjustable), Cleveland, O.
Owen Machine Tool Co., Springfield, O.
Waltham Screw Co., Waltham, Mass.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Whitney Mfg. Co. ("Presto" & Friction Tapping), Hartford, Conn.
Wiley & Russell Mfg. Co. ("Lightning" Dies & Collets for Machines). Greenfield, Mass.

## Color Cards for Mixed Paints

(See Paint Manufacturers' Color Cards)

## 2130—Color Mfrs. & Importers

(See also Clays, Minerals, Etc.)

Acme White Lead & Color Wks, Detroit, Mich.
Adler Color & Chemical Works, 100 William, New York, & 170 Tillary, Brooklyn, N. Y.
**Akron Mining, Milling & Mfg. Co. ("Robinson's"), Aurora, Ill.**
Alston-Lucas Paint Co., 1029 Currier, Chicago, Ill.
Andrus, Wm. H. Co., Chicago Heights, Ill.
Ansbacher, A. B. Co. (Dry Colors), 2629 Dearborn, Chicago, Ill.
**Ansbacher, A. B. & Co., 253 B'way, New York, & 310 N 7th, Brooklyn, N. Y.**
Atlas Co. (Miners & Refiners), Lincoln, N. J.
**Augusta Sienna & Ochre Co., (Miners & Exporters), Augusta, Ga.**
**Ault & Wiborg Co. (Dry Color Mfrs.), 7th & Culvert, Cincinnati, Ohio**
**Baltimore Dry Paint Works (Venetian, Red, Metallic, Brown), Baltimore, Md.**
Billings-Chapin Co., Cleveland, O.
Billings, King & Co., 438 Pearl, New York
Binney & Smith Co., 81 Fulton, New York
Bredt, F. & Co., 240 Water, New York
Breidbach, C. J. & Son, 35 Mott av, New York
**Briggs, John & Co., 47 Purchase, Boston, Mass.**

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Cambria Paint & Color Co. (Ltd.) (Grinders of Paper & Pulp Colors, Colors in Oil, etc.), Johnstown, Pa.
Cawley, Clark & Co. (Pulp & Dry Colors, Chrome Yellow, etc.), Newark, N. J.
Chesapeake Oil Co., Baltimore, Md.
Chicago Color & Chemical Co., Chicago Heights, Ill.
Chrystal, Chas. B., 11 Cliff, New York
Continental Varnish & Color Co., Kansas City, Mo.
Detroit White Lead Works, Detroit, Mich.
Devoe, F. W. & C. T. Raynolds Co., 101 Fulton, New York
Ditzler Color Co., Detroit, Mich.
**DOGGETT, STANLEY (Dry), 101 Beekman, New York.** (See adv. index, end of book)
Eagle White Lead Co., Cincinnati, O.
Essex Paint Works, Essex, Conn.
Fales, W. H. & Co., 62 Maiden la, New York
Forest City Paint & Varnish Co., Cleveland, O.
**FOX, M. EWING & CO. (Dry & Water), 240 E 136th, New York.** (See adv. index, end of book)
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Gabriel & Schall (Importers of Tithopone Dry Colors, etc.), 205 Pearl, New York
Hammill & Gillespie (Importers), 240 Front, New York
Hanna & Andrus Mfg. Co., 945 Weed, Chicago, Ill.
Harrison Bros. & Co., 35th & Grays Ferry rd. Phila., Pa.
Heller & Merz Co. (Aniline), 22 Cliff, New York
Herrman, Morris & Co., 200 5th av, New York
Huber, Jos. M., 150 Worth, New York
Illinois Mineral Milling Co., E. St. Louis, Ill.
International Acheson Graphite Co. (Graphite Pigments), Niagara Falls, N. Y.
Jamaica Dyewood & Chemical Co. (Analine, etc.), 50 Church, New York
Johnson, Chas. E. & Co., 509 S 10th, Phila., Pa.
Kalle & Co. (Importers), 534 Canal, New York
Kohnstamm, H. & Co., 87 Park pl, New York
Kuttroff, Adolf (Importers), 128 Duane, New York
Lavanburg, Fred'k L. (Importer), 100 William, New York
Lewis, John T. & Bros. Co., Lafayette bldg., Phila., Pa.
Longman & Martinez, 207 Pearl, New York
Lucas, John & Co., 4th & Race, Phila., Pa.
Macneal, Jas. B. & Co., Baltimore, Md.
Mepham, Geo. S. & Co. (Colors & Minerals), East St. Louis, Ill.
Merrimac Chemical Co., Boston, Mass.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H., CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
Patton Paint Co., Milwaukee, Wis.
Peninsular Paint & Varnish Co., Detroit, Mich.
Pfeiffer, Isaac, 92 William, New York
Pittsburg Iron Paint Co. (Oxide of Iron), N. S., Pittsburg, Pa.
Prince Mfg. Co., 2 Cliff, New York
Prince's Metallic Paint Co., Allentown, Pa.
Quartz Glass & Mfg. Co. (Dry Colors, Ochres, etc.), Los Angeles, Cal.
Schoellkopf, Hartford & Hanna Co. (Aniline), Buffalo, N. Y.
**SCHULE, F. H. CO., 114 Liberty, New York.** (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Siegle, G. Co. (Dry Colors), Rosebank, Borough of Richmond, New York
Sinclair & Valentine Co., 611 W 129th, New York
Standard Ultramarine Co. (Ultramarine Blues).
Stevens, Geo. I., Essex, Conn.
Tiemann, D. F. & Co., 44 Duane, New York
Toch Bros. (Est. 1848), 320 5th av, New York
Valentine & Co., 257 B'way, New York
Watson, J. D. & Co. (Mfrs.), New Brunswick, N. J.
Whittaker, W. H. (Importer & Dealer), 245 Front, New York
Wilhelm, A. Co. (Dry, Pulp & in Oil), Reading, Pa.
Williams, C. K. & Co. (Miners & Exporters), Easton, Pa.
Wix, Chas. & Co., 133 Reade, New York
Woodhouse, Sam'l F., Unity & Franklin, Phila., Pa.

## 2131— Coloring (Incandescent Lamp)

Barrett, M. L. & Co., 219 Lake, Chicago, Ill.
Brunner Chemical Co. ("Queen"), Cincinnati, O.
Celluloid Zapon Co., Stamford, Conn.
Egyptian Lacquer Mfg. Co., Rahway, N. J.
McGill Mfg. Co., Valparaiso, Ind.
New Era Lustre Co., New Haven, Conn.
Pacific Electric Co. ("Incline," "Karsline"), La Crosse, Wis.
Signaloid Chemical Wks., 1393 B'way, New York

## 2133—Colors (Cement, "French's")

**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index & branch offices, end of book)

## 2134— Colors (Steel)

Adler Color & Chemical Works, 100 William, New York
Atlas Mineral & Machine Co., Lincoln, N. J.
**DOGGETT, STANLEY, 101 Beekman, New York.** (See adv. index, end of book)
Forest City Paint & Varnish Co., Cleveland, O.
National Paint Works, 92 William, New York

## 2135—Colors & Fillers (Paper Makers')

**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Lucas, John & Co., 314 Race, Phila., Pa.
Tiemann, D. F. & Co., 46 Duane, New York
Williams, C. K. & Co., Easton, Pa.

## 2136— Column Coverings

A. B. Fireproofing Co. (Inc.), Schiller bldg, Chicago, Ill.
Detroit Fireproofing Tile Co. ("Gypsite"), 250 Beecher av, Detroit, Mich.
Federal Clay Mfg. Co., B'way & 23d, New York
Person, O. D., 160 5th av, New York

## 2137—Columns (Cast Iron)

(See also Firms in Iron, Architectural & Ornamental Marked with a (*) Star)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO., Canton, O.** (See adv. index, end of book)
**MacKINNON BOILER & MACHINE CO., Bay City, Mich.** (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich.** (See adv. index, end of book)
**SMITH, F. P., WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, Jersey City, N. J.** (See adv. index, end of book)
Washington Iron Works, Buffalo, N. Y.

## 2138—Columns (Cast Iron Pipe)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 2139—Columns (Concrete Reinforced)

**SMITH, F. P. WIRE & IRON WORKS** (Spiral), Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)

## 2140—Columns (Fire Proof)

Pfaff & Kendall ("Hercules"), Ferry & Foundry, Newark, N. J.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)

## 2141—Columns (Mercury)

Feather, N. B. ("Feather"), Newark, N. J.

## 2142— Columns (Metal)

**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O., & 81 Fulton, New York.** (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

## 2143—Columns, Porch, Etc. (Mfrs.)

**American Column Co., Battle Creek, Mich.**
Booth Column Co. (Wholesale Mfrs.), Toledo, Ohio
Bossert, Louis & Son (Wholesale Mfrs.), Grand st & Newtown Creek, Brooklyn, N. Y.
Brockway-Smith Corp, Boston, Mass.
Buckeye Churn Co. (Solid Bored Colonial), Sidney, O.
Bush Bros., Royersford, Pa.
Butz, F. J. & Sons, South Bend, Wash.
Chicago Mill Work Supply Co., 967 W 20th, Chicago, Ill.
Colonial Column Mfg. Co. ("Triumph"), Lock Joint), 206 B'way, New York
Cream City Sash & Door Co. (For the Trade Only), Milwaukee, Wis.
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Ia.
Curtis, Towle & Paine Co. (Wholesale Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Del' Isle, S. G. Co. (Mfrs. Agts.), Hibernia Bank bldg, New Orleans, La.
Detroit Column & Mfg. Co. (Lock Joint), Detroit, Mich.
Dickey, A. & Co. (Piazza, etc., Wholesale), 37 Bristol, Boston, Mass.
Disbrok, M. A. & Co. (Wholesale Mfrs.), Lyons, Iowa
Doane & Jones Lumber Co. (Perfect Joint), Elmira, N. Y.
Eby Mfg. Co., Detroit, Mich.
Falls City Lumber Co. (Of Fir Lumber), Portland, Ore.
Florence Column & Mfg. Co., Florence, Ala.
Foster, Munger Co. (For the Trade Only), W 20th & Sangamon, Chicago, Ill.
Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.
Gauger, Jno. A. & Co. (For the Trade Only), W 22d & Laflin, Chicago, Ill.
Greer-Wilkinson Lumber Co., Oakland, Ind.
Harris & Cole Bros. (Popular Bored), Cedar Falls, Ia., & Columbia, Tenn.
Hartmann-Sanders Co. ("Koll's" Lock Joint), 2155 Elston av, Chicago, Ill., & 1125 B'way, New York
Hyde-Murphy Co., Ridgway, Pa.
Jeffersonville Mfg. Co., Jeffersonville, Ind.
Koll. A. J., Los Angeles, Cal.
**KRATZER, W. N. & CO. (Steel Columns for Buildings, etc.), 3218 Smallman, Pittsburg, Pa.** (See adv. index, end of book)
Lally Column Co. ("Lally," Damp & Fireproof), 1133 B'way, New York
Lawrence, Newhall, Page & Co. (Wholesale Mfrs.), Augusta, Me.
Leary, J. L., Casar, N. C.
Littell, C. E. Co., Tacoma, Wash.
McClelland, T. W. Co. (Wholesale Mfrs.), Davenport, Ia.
McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.
Malta Mfg. Co. Wholesale Mfrs.), Malta, O.
Morgan Co. (For the Trade Only), Oshkosh, Wis. & 22d & S Union, Chicago, Ill.
Nelson, C. T. Co. ("Columns, Balusters, Spindles, etc., for the Trade Only), Columbus, Ohio
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis., & 1 Madison av, New York
Peirce, W. E. & Co. (Wholesale Mfrs.), Milford, N. H.
Puget Sound Mills & Timber Co., Seattle, Wash.
Richardson & Elmer Co., Tacoma, Wash.
Riggs Cypress Co. (Wholesale Mfrs.), Patterson, La.
Rittenhouse Bros., Cadiz, O.
Roberts, E. L. & Co. (For the Trade Only), W. 22d & Union pl, Chicago, Ill.
Rockwell Mfg. Co. (For the Trade Only), Milwaukee, Wis.
St. Louis Sash & Door Works (For the Trade Only), St. Louis, Mo.
Schaller-Hoer Co., 1013 S California av, Chicago, Ill.
Schwerd, A. F., North Side, Pittsburg, Pa.
Seattle Cedar Lumber Mfg. Co., Seattle, Wash.
Spangler, Frank Co. (Tongued & Grooved, Patent Staved), Toledo, O.
**STEARNS, A. T. LUMBER CO. (Wholesale Mfrs.), Neponset, Boston, Mass.** (See adv. index, end of book)
Washington Mfg. Co., Tacoma, Wash.
Weybrecht's, J. T. Sons (Solid & Staved), Alliance, O.
Weyerhaeuser Lumber Co. (Wholesale Mfrs.), Everett, Wash.
Whatcom Falls Mills Co. (Red Cedar for Trade Only), Bellingham, Wash.
Wheeler, Osgood Co. (Cedar & Fir), Tacoma, Wash.
Zimmerman, Chas. E., 204 Burnet, Syracuse, N. Y.

## 2144— Columns (Porch, Pressed Steel)

**Union Metal Mfg. Co., Canton, O.**

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## 2145—Columns (Porch, Sheet Metal)

**CANTON MFG. CO., CANTON, O.** (See adv. index, end of book)
**ST. PAUL ROOFING, CORNICE & ORNAMENT** Co., St. Paul, Minn. (See adv. index, end of book)

## 2146—Columns (Steel Pipe)

Acme Column Co. (Filled with Concrete), 6 Roebling, Brooklyn, N. Y.

## 2147—Comealongs or Wire Pullers

(See also Grips, Cable)

B-R Electric & Tel. Mfg. Co. ("Penn," Tightener), Kansas City,, Mo.
Burr Mfg. Co., 2108 Superior av, N W, Cleveland, O.
Dicke, C. H. Tool Co. ("Howe"), Downers Grove, Ill.
Eureka Fence Mfg. Co. ("Sedgwick"), Richmond, Ind.
Eureka Tempered Copper Co. ("Parallel," "Westfield"), North East, Pa.
Farr Telephone & Construction Supply Co. ("Rowlands"), 33 S Clinton, Chicago, Ill.
Irvington Mfg. Co., Irvington, N. J.
Klein, Mathias & Sons ("American Grip," "Haven's," "Landee's," "Chicago Grip"), 562 Van Buren, Chicago, Ill.
Locke Insulator Mfg. Co., Victor, N. Y.
Nagel, W. G. Elec. Co., Toledo, O.
Never Slip Wire Stretcher & Novelty Co., West Farmington, O.
Rittenhouse-Smith Electric Co. (Wire Stretcher), Scranton, Pa.
Sawyer' C. L. ("Hercules" Wire Stretcher), Millers Falls, Mass.
Western Electric Co. ("Buffalo Grip"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## Commutator Building & Refilling

(See Armature Rewinding & Commutator Refilling)

## Commutator Copper

(See Copper for Commutator Bars)

## Commutator Dressing

(See Compounds, Commutator)

## Commutator Segments

(See Bars, Commutator)

## 2148—Commutator Truing Device

Bryant-Bery Co., Detroit, Mich.
Fort Wayne Electric Works, Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Imperial Electric Co. ("Carr"), Akron, O.
Jordan Bros., 74 Beekman. New York
Patterson Tool & Supply Co., Dayton, O.

## 2149— Commutators

(See also (Bars, Commutator)

American General Engineering Co. ("A-G-E"), 253 B'way, New York
Cameron Electrical Mfg. Co., Ansonia, Conn.
Cleveland Armature Works, Cleveland, O.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Columbus Electrical Works Co., Columbus, O
Doubleday-Hill Elec. Co., Pittsburg, Pa.
Eureka Tempered Copper Works, North East, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Homer Commutator Co.. Cleveland, O.
Lemke Electric Co., Milwaukee, Wis.
Ridlon, Frank Co., Boston, Mass.
**Traction Material Co., 50 Church, New York**
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Woolley Electric Co., St. Louis, Mo.
Youngstown Armature & Construction Co., Youngstown, O.

## 2150—Commutators (Gas Engine)

Crouse-Hinds Co., Syracuse, N. Y.

## 2151— Compasses

(See also Dividers)

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Athol Machine Co., Athol, Mass.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Bliss, J. & Co., 128 Front, New York
Dietzen, Eugene Co. ("Economy" Beam), 181 Monroe, Chicago, Ill.
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Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
McAllister, T. H. Co., 49 Nassau, New York
Negus, T. S. & J. D., 140 Water, New York
Osborne, C. S. & Co. (Leather, etc.), Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Pfister, Herm., 428 Plum, Cincinnati, O.
Prince, L. M., Cincinnati, O.
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Ritchie, E. S. & Sons (Liquid), Brookline, Mass.
Sargent & Co., New Haven, Conn.
Sayre, L. A. & Co.. Newark, N. J.
Scheutte Recording Compass Co. (Marine Recording), Manitowoc, Wis.
Schollhorn, Wm. Co., New Haven, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index, end of book)
Taylor Instrument Cos. ("Tyros"), Rochester, N. Y.
Tower & Lyon Co., 95 Chambers, New York
U. S. Auto Compass Co. "Kraemer Pathfinder" Pocket, Milwaukee, Wis.
White, L. & I. J. Co. (Coopers' Wing), Buffalo, N. Y.

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New York Buff Co., 85 Centre, New York
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Rhodes, Jas. H. & Co. (Glass Polishing Rouge, etc.), 162 W Kinzie, Chicago, Ill.
Stevens, Frederic B., Detroit, Mich.
Union Polish Co., 78 Barclay, New York

## 2154—Compound Tables (Drill Press)

Barnes, W. F. & Jno. Co.. Rockford, Ill.
Mechanics' Machine Co., Rockford, Ill.

## 2155—Compounds (Brazing)

(See also Compounds, Welding)

American Ferrofix Brazing Co., Perry bldg, Phila., Pa.
Anti-Borax Compound Co. ("E-Z"), Ft. Wayne, Ind.
A. & J. Mfg. Co. ("Braziron," for Cast Iron), 427 W Randolph. Chicago, Ill.
Castolin Co. of America ("Castolin," for Cast Iron), St. Louis, Mo.
Cleveland Block Co. ("Braze Weld"), Cleveland, O.
**DIXON, JOS., CRUCIBLE CO., Jersey City,** N. J. (See adv. index & branch offices, end of book)
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Kent, S. W., Cazenovia, N. Y.
Krembs & Co. ("Fluxine"), Chicago, Ill.
**MacLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Oldham, Joshua & Son ("Oldham"), 128 26th, Brooklyn, N. Y.
Phillips-Laffitte Co. ("Laffitte"), Penna bldg, Standard Brazing Co. (Inc.), Board of Trade bldg, Boston. Mass.
Universal Fluxine Co. ("Universal Fluxine"), Urbana, O.
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Sullivan Oil Co. ("Sullivan's" Economic), 413 Wells, Chicago, Ill.
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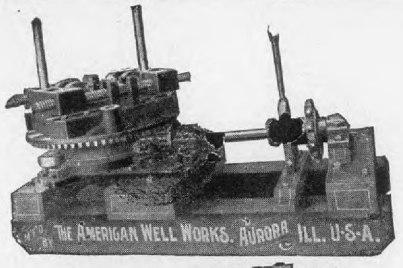
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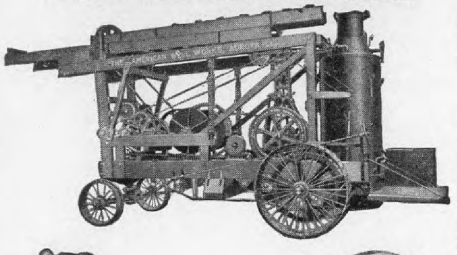
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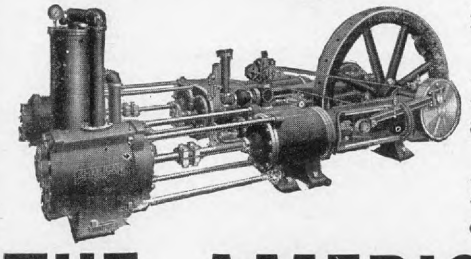
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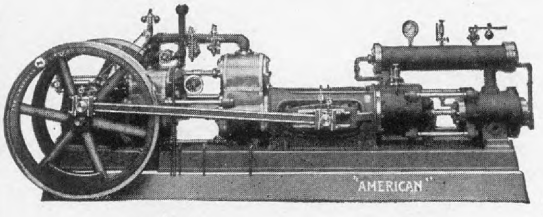
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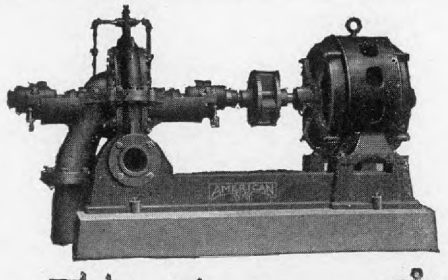
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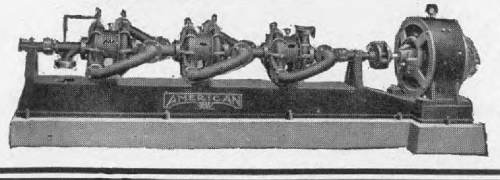
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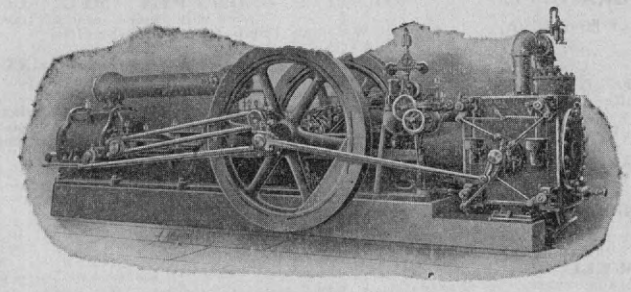
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Lower Metal & Supply Co., Little Falls, N. Y.
Masury, Young, Boston, Mass.
West Disinfecting Co., 2 W 42d, New York
Continental Mfg. Co. ("Dustoline"), Indianapolis, Ind.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)

### Compounds (Tempering)

(See Compounds, Case Hardening & Tempering)

### Compounds (Waterproofing)

(See Waterproofing Materials)

### 2178—Compounds (Welding)

(See also Compounds, Brazing)

Anti Borax Compound Co. ("E-Z"), Fort Wayne, Ind.
Castolin Co. of America ("Castolin"), Wright bldg, St. Louis, Mo.
Cortland Welding Compound Co. ("Climax" & "Borax-Ettee"), Cortland, N. Y.
Doxey, N. D. ("Anchor"), Elmira, N. Y.
Perfection Welding Compound Co. ("Perfection"), Scranton, Pa.

### 2179—Compounds (Wizard Soap)

Sholes, Chas. E. Co., 164 Front, New York

### 2180— Compressors (Air)

#### ALABAMA.

BIRMINGHAM—Hardie-Tynes Mfg. Co.
**INGERSOLL-RAND CO. (of New** York City), (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven), Chamber of Commerce bldg. (See adv. index, end of book)

#### CALIFORNIA.

SAN FRANCISCO—Clot & Christ Machine Co.
Compressed Air Machinery Co. ("Giant")
**FAIRBANKS, MORSE & CO. (Air,** Gasoline & Steam), 310 Market. (See adv. index, end of book)
Hendy, Joshua Iron Works
Risdon Iron Works
Rix Compressed Air & Drill Co.

#### COLORADO.

**DENVER—FAIRBANKS, MORSE & CO.** (Air, Gasoline & Steam), 1600 17th. (See adv. index, end of book)
**JEFFREY MFG. CO., Equitable** bldg. (See adv. index, end of book)
Stearns-Roger Mfg. Co.
LITTLETON—Leyner, J. Geo. Engineering Works Co. ("Leyner" Belt, Steam, Electric, Water Power, etc.)

#### CONNECTICUT.

SOUTH NORWALK—**NORWALK IRON** Works Co. (Air & Gas Compressors). (See adv. index, end of book)

#### ILLINOIS.

AURORA—**AMERICAN WELL WORKS.** (See adv. index, end of book)
CHICAGO—**CHICAGO PNEUMATIC TOOL** Co. ("Franklin"), Fisher bldg. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (Gas**oline & Steam), 481 Wabash av. (See adv. index, end of book)
**INGERSOLL-RAND CO. (of New** York City) (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven), 84 Van Buren (See adv. index, end of book)
**JEFFREY MFG. CO. (See adv. in**dex, end of book)
Kroeschell Bros Ice Machine Co., 472 W Erie
**SULLIVAN MACHINERY CO. (Steam** & Power Driven), Peoples Gas bldg. (See adv. index, end of book)
United Pump & Power Co. ("Perry"), 84 Van Buren; Works: Clyde, Ill.
Victor Electric Co. (For Cleaning Switchboards, etc.), 55 Market
Weir & Craig Mfg. Co., 2439 Wallace
DECATUR—**LEADER IRON WORKS** (Jobbers), (See adv. index, end of book)
QUINCY—**GARDNER GOVERNOR CO.** (Belt & Motor Driven & Steam Actuated.) (See adv. index, end of book)

#### INDIANA.

INDIANAPOLIS — Dean Bros. Steam Pump Works
**FAIRBANKS, MORSE & CO. ("Air,** Gasoline & Steam). (See adv. index, end of book)
**Spacke, F. W. Machine Co. (Belt or Motor Driven, 1 to 100 ft per minute)**

#### IOWA.

DAVENPORT—**SCOTT, C. U. (Jobber).** (See adv. index, end of book)

#### KENTUCKY.

LOUISVILLE—**FAIRBANKS, MORSE &** Co. (Air, Gasoline & Steam), 519 Main (See adv. index, end of book)
National Foundry & Machine Co.

#### MARYLAND.

BALTIMORE—American Compressor & Pump Co.


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## MASSACHUSETTS.

BOSTON—**INGERSOLL-RAND CO. (of** New York City) (Steam. Belt, Electric, Corliss Gas Engine & Steam Driven), 75 Oliver. (See adv. index, end of book)
Trimount Rotary Power Co. ("Trimount" Rotary), 144 Pearl

## MICHIGAN.

**BATTLE CREEK — AMERICAN STEAM** Pump Co. (Steam & Power). (See adv. index, end of book)
**UNION STEAM PUMP CO. (See** adv. index, end of book)
DETROIT—**FAIRBANKS, MORSE & CO.** (Air, Gasoline & Steam), 89 Jefferson. (See adv. index, end of book)
Great Lakes Engineering Works (Vertical Compound, High Duty)

## MINNESOTA.

DULUTH—**INGERSOLL-RAND CO. (of** New York City), (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven). (See adv. index, end of book)
MINNEAPOLIS—**FAIRBANKS, MORSE &** Co. (Air, Gasoline & Steam), 220 Nicollet av. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHIN-**ery Co. (See adv. index, end of book)

## MISSOURI.

KANSAS CITY—**FAIRBANKS, MORSE &** Co. (Air, Gasoline & Steam), 1217 Union av. (See adv. index, end of book)
ST. LOUIS—Curtis & Co. Mfg. Co. (Automatic Vertical Type, Belt & Electric Driven)
**FAIRBANKS, MORSE & CO. (Air,** Gasoline & Steam), 8th & Clark av. (See adv. index, end of book)
**INGERSOLL-RAND CO. (of New** York City), (Steam, Belt, Electric, Corliss Gas Engine, & Steam Driven), Fullerton bldg. (See adv. index, end of book)
Reliance Machine & Tool Works ("Hooker") (See adv. index & branch offices, end of book)

## MONTANA.

BUTTE — **INGERSOLL-RAND CO. (of** New York City), (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven), (See adv. index, end of book)

## NEW HAMPSHIRE.

CLAREMONT—**SULLIVAN MACHINERY** Co. (Duplex, Corliss & Straight Line)

## NEW JERSEY.

CAMDEN—**MERRITT & CO. (See Oper-**ating Pneumatic Ejectors or Pneumatic Pumps), 93 Arch. (See adv. index, end of book)
HOBOKEN—Brewster Engineering Co. (of New York City) ("Brewster" Rotary)

## NEW YORK.

BUFFALO—**BUFFALO FOUNDRY &** Machine Co. (See adv. index, end of book)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—American Air Compressor Works, Van Brunt & Summit
**CROWELL, J. GILMER ("Cro-**well"), 296 Taaffe pl. (See adv. index.
Davidson, M. T., 43 Keap end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar. (See adv. index, end of book)
Foster Pump Works, 36 Bridge
Guild & Garrison, Kent av c S 10th

### Boroughs of Manhattan & Bronx.

NEW YORK—American Air Compressor Works, ("Fairhurst"), 26 Cortlandt
**AMERICAN WELL WORKS, 2** Stone. (See adv. index, end of book)
**CLAYTON AIR COMPRESSOR** Works, B'way & Cedar. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (Air,** Gasoline & Steam), 30 Church. (See adv. index, end of book)
**INGERSOLL-RAND CO. (Steam,** Belt, Electric, Corliss Gas Engine & Steam Driven), 11 B'way. (See adv. index, end of book)
**JEFFREY MFG. CO., 77 Warren.** (See adv. index, end of book)
**KNOWLES STEAM PUMP WKS.,** B'way & Cedar. (See adv. index, end of book)
**LAIDLAW-DUNN-GORDON CO.,** B'way & Cedar. (See adv. index, end of book)
McKiernan-Terry Drill Co., 115 B'way
Niles-Bement-Pond Co. (Belt Driven, etc.), 111 B'way
**SULLIVAN MACHINERY CO. (Du-**plex, Corliss & Straight Line), 42 B'way. (See adv. index, end of book)

**(End of New York City)**

SCHENECTADY—**GENERAL ELECTRIC** Co. (Electric Motor & Steam Turbine Driven). (See adv. index, end of book)
TROY—Sturgess Engineering Dept. of Ludlow Valve Mfg. Co. ("Sturgess" High Speed, Especially Designed for Cleaning Generators, etc.)

## OHIO.

ASHLAND—**MYERS, F. E. & BRO.** (See adv. index, end of book)
CINCINNATI—**FAIRBANKS, MORSE &** Co. (Air, Gasoline & Steam), 307 Walnut. (See adv. index, end of book)
**LAIDLAW-DUNN-GORDON CO.** (See adv. index, end of book)
McGowan, John H. Co.
CLEVELAND—**FAIRBANKS, MORSE &** Co. (Air, Gasoline & Steam), 99 Water. (See adv. index, end of book)
**INGERSOLL-RAND CO. (of New** York City), (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven), Williamson bldg. (See adv. index, end of book)
COLUMBUS — **JEFFREY MFG. CO.** (See adv. index, end of book)
Weinman Pump Mfg. Co. (Small)
DAYTON—Platt Iron Works Co.
HAMILTON — **HOOVEN-OWENS-RENT-**schler Co. (See adv. index, end of book)
ST. MARYS—Heisler Co. (High Duty)
SALEM—**DEMING CO. (See adv. index,** end of book)
UPPER SANDUSKY — National Steam Pump Co. ("National")
WOOSTER—Canton-Hughes Pump Co. (Steam & Belt Driven)

## PENNSYLVANIA.

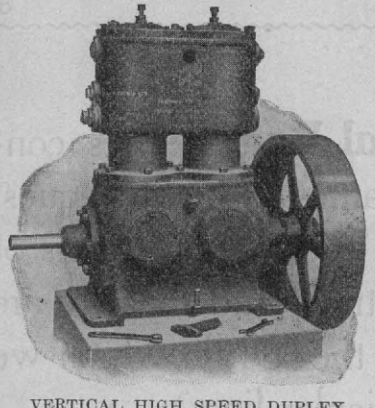
BRADFORD—Blaisdell Machinery Co. (All
CHESTER—Wetherhill R. & Co. Types)
ERIE—Bury Compressor Co. (Steam, Belt & Electrically Driven)
OIL CITY—Holbeck-Riverside Gas Power Co. ("Riverside")
MECHANICSBURG—Comstock, Geo. S. ("Comstock," Belted & Motor Driven, 3 to 70 Cup Feet)
PHILADELPHIA — **DALLETT, THOS. H.** Co., 2300 York. (See adv. index, end of book)
**INGERSOLL-RAND CO. (of New** York City (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven), Arcade bldg. (See adv. index, end of book)
Southwark Foundry & Machine Co.
Underwood, H. B. & Co. (Compound Tandem Belt), 1027 Hamilton
PITTSBURG—Hall Steam Pipe Co., North Side
**INGERSOLL - RAND CO. (of New** York City) (Steam, Belt, Electric, Corliss, Gas Engine & Steam Driven), Arcade bldg. (See adv. index, end of book)
**JEFFREY MFG. CO. (See adv. In-**dex, end of book)
Mesta Machine Co., Lewis bldg.
**WESTINGHOUSE AIR BRAKE CO.,** The (Steam Driven)
**WESTINGHOUSE MACHINE CO. (Tur-**bine Type), Westinghouse bldg. (See adv. index, end of book)
Wilson-Snyder Mfg. Co., Ross & Water
PORT CARBON—Franklin Iron Works
SCRANTON — **ALLIS-CHALMERS CO.** ("Reynolds" Belted Steam, etc.). (See adv. index, end of book)
WARREN—Jacobson Machine Mfg. Co.

## RHODE ISLAND.

PROVIDENCE—Builders' Iron Foundry
General Fire Extinguisher Co.

## TEXAS.

**DALLAS—AMERICAN WELL WORKS.** (See adv. index, end of book)
**EL PASO— INGERSOLL-RAND CO. of** Texas) (of New York City), (Steam, Belt, Electric, Corliss Gas Engine & Steam Driven), 121 San Francisco (See adv. index, end of book)

VERTICAL HIGH SPEED DUPLEX

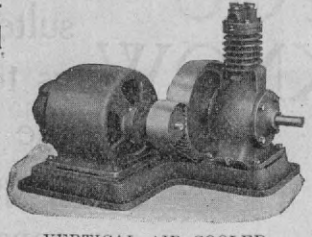
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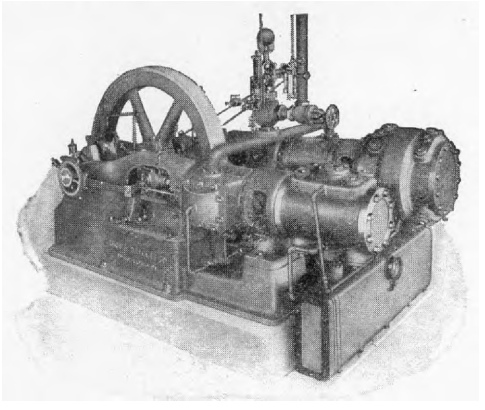
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In design the most up-to-date machines in the compressor field. They embody not a single feature but what is up to the minute, judged by the highest standard of engineering practice.

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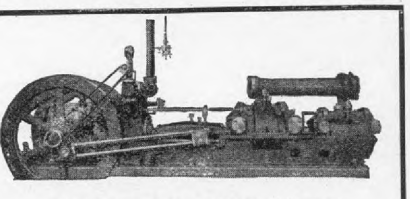
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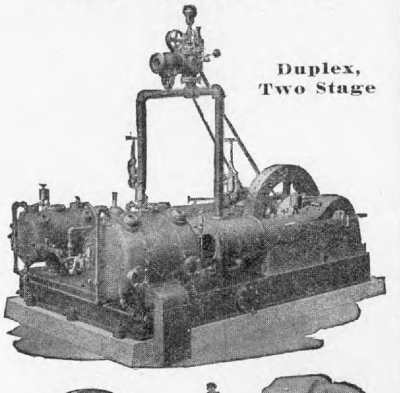
## SULLIVAN MACHINERY CO.

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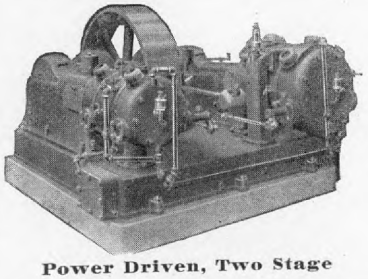
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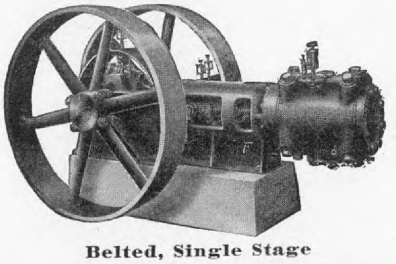
Straight Line, Two Stage



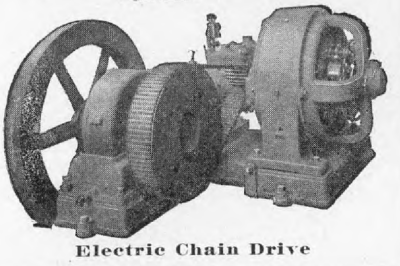
Duplex, Two Stage



Power Driven, Two Stage

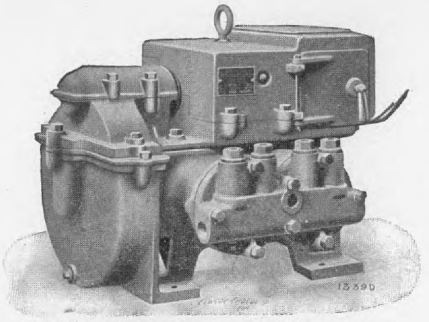


Belted, Single Stage

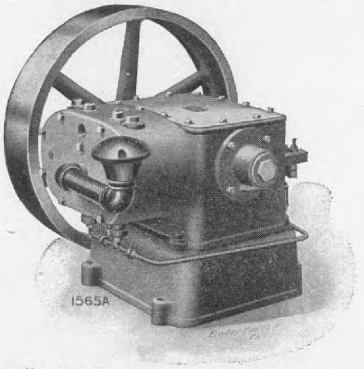


Electric Chain Drive

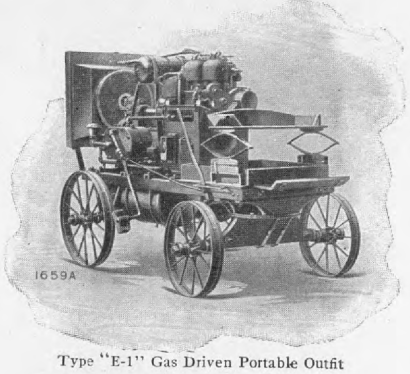
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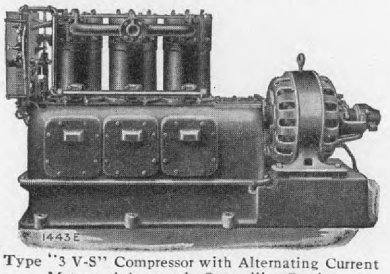
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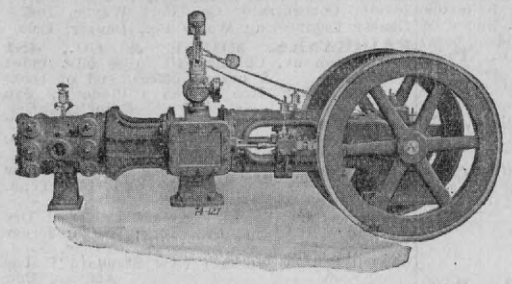
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WESTMINSTER STATION—Abenaque Machine Works, (Gas & Gasoline Driven, Portable or Wheels)

### WASHINGTON.

SEATTLE—**INGERSOLL-RAND CO. (of** New York) (Steam, Belt, Electric, Corliss & Steam Driven). (See adv. index, end of book)

SPOKANE—**FAIRBANKS, MORSE & CO.** (Air, Gasoline & Steam). (See adv. index, end of book)

### WISCONSIN.

CORLISS—Wisconsin Engine Co. (Corliss Type)

MILWAUKEE—**ALLIS-CHALMERS CO.** Belted, Steam, Hydraulic & Electric) (See adv. index, end of book)

Christensen Engineering Co. (Motor Driven)




Automatic controlling devices for electrically operated air-compressors—THE CUTLER-HAMMER MFG. CO. Milwaukee, Wis.


**NATIONAL BRAKE & ELECTRIC** (Stationary, Direct & Alternating Current Motor Drive, Capacity 11 to 300 cu. ft. of Free Air per Minute; Portable, Capacity, 11 to 75 cu. ft. of Free Air per Minute), Larkin & Belleview pl. (See adv. index, end of book)

## 2181—Compressors (Air, Portable)

Abenaque Machine Works (Gasoline), Westminster Station, Vt.

**ALLIS-CHALMERS CO. (Motor** Driven), Milwaukee, Wis. (See adv. index & branch offices, end of book)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)

**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

**NATIONAL BRAKE & ELECTRIC** Co. (Direct & Alterntaing Current Motor Driven, Capacity 11 to 75 cu. ft. of Free Air per Minute), Larkin & Belleview pl. Milwaukee, Wis. (See adv. index & branch offices, end of book)

**SULLIVAN MACHINERY CO. (Mounted** on a Truck & Driven by Gasoline Engine, Equiped with Hoisting Attachment), People's Gas bldg. Chicago, Ill. (See adv. index & branch offices, end of book)

**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 2182—Compressers (Ammonia)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

Arctic Ice Machine Co., Canton, O.

Bouchard, Jno. & Sons Co., Nashville, Tenn.

**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

Creamery Package Mfg. Co., 61 W Kenzie, Chicago, Ill.

Great Lakes Engineering Works, Detroit, Mich.

Guild & Garrison, Kent av c S 10th, Brooklyn, N. Y.

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

**KNOWLES STEAM PUMP WORKS** (Gas), B'way & Cedar. New York. (See adv. index & branch offices, end of book)

**LAIDLAW-DUNN-GORDON CO.** (Gas), B'way & Cedar, New York. (See adv. index & branch offices, end of book)

Triumph Ice Machine Co., Cincinnati, O.

Ruemmeli-Dawley Mfg. Co., St. Louis, Mo.

**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)

## 2183—Compressors (Centrifugal)

**GENERAL ELECTRIC CO. ("G-E"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)

## 2184—Compressors (Corliss)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)

**HOOVEN-OWENS-RENTSCHLER CO.,** Hamilton, O. (See adv. index & branch offices, end of book)

**INGERSOLL-RAND CO. (Steam** Driven), 11 B'way, New York. (See adv. index & branch offices, end of book)

**SULLIVAN MACHINERY CO. ("Sullivan" Tandem),** People's Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book) (See adv. index & branch offices, end of book)

## 2185—Compressors (Corn Shock)

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.

Tie Co., Unadilla, N. Y.

## 2186—Compressors (Garage)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

**FAIRBANKS, MORSE & CO.** (Single Acting Air Cooling), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

**INGERSOLL-RAND CO., 11 B'way,** New York (See adv. index & branch offices, end of book)

**NATIONAL BRAKE & ELECTRIC** Co. (Portable & Stationary; Capacities, 11 to 75 cu. ft. of Free Air per Minute), Larkin & Belleview pl, Milwaukee, Wis. (See adv. index & branch offices, end of book)

**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 2187—Compressors (Gas)

Abenaque Machine Works ("Abenaque" Portable on Wheels), Westminster Station, Vt.

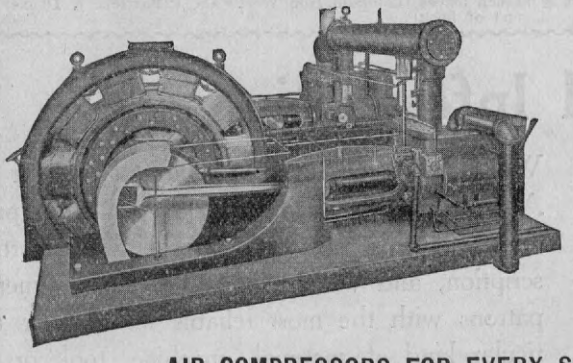
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

American Compressor & Pump Co., Baltimore, Md.

Blaisdell Machinery Co., Bradford, Pa.


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**BLAKE, GEO. F. MFG. CO. (Ammonia,** Carbonic Acid & Oxygen), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Bury Compressor Co., Erie, Pa.
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**CLAYTON AIR COMPRESSOR W'KS** (For Acetylene, Carbonic Acid, Coal, Natural & Oxygen Gas), B'way & Cedar. (See adv. index & branch offices, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flickinger Iron Works (Inc.) (Gas Driven, Self-Oiling, Straight Line), Bradford, Pa.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
(See adv. index, end of book)
Hall Steam Pump Co., N. S., Pittsburg, Pa.
Heisler Co., St. Marys, O.
Holbeck-Riverside Gas Power Co. ("Riverside"), Oil City, Pa.
**HOOVEN-OWENS-RENTSCHLER CO.,** Hamilton, O. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO. (Gas Engine** Driven), 11 B'way, New York (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS** (Ammonia, Carbonic Acid), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Kroeschell Bros. Co., 440 W Erie, Chicago, Ill.
**LAIDLAW-DUNN-GORDON CO. (For** Acetylene, Carbonic Acid, Coal, Natural & Oxygen Gas), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lane & Bodley Co. (& Air), Cincinnati, O.
Leyner, J. G. Eng. Works Co., Littleton, Colo.
**NATIONAL BRAKE & ELECTRIC** Co. (Stationary & Portable, Gas & Motor Drive, Capacities 11 to 300 cu. ft. of Free Air per Minute), Larkin & Beleview pl, Milwaukee, Wis. (See adv. index, end of book)
Nordberg Mfg. Co., Milwaukee, Wis.
**NORWALK IRON WORKS CO., South** Norwalk, Conn. (See adv. index, end of book)
Platt Iron Works Co., Dayton, O.
St. Louis Steam Engine Co., St. Louis, Mo.
**SULLIVAN MACHINERY CO., People's** Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Engine Co. (Corliss Type), Corliss, Wis.
Young, E. R. & Sons, Titusville, Pa.

## 2188—Compressors (Gasoline)

**Abenaque Machine Works (Portable on Truck),** Westminster Station, Vt.
Bury Compressor Co., Erie, Pa.
Curtis & Co. Mfg. Co. (Portable on Truck, etc., Gasoline Driven), St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**NATIONAL BRAKE & ELECTRIC** Co. (Stationary & Portable, Gasoline Driven, Capacities 11 to 300 cu. ft. of Free Air Per Minute), Larkin & Belleview pl, Milwaukee, Wis. (See adv. index & branch offices, end of book)
**SULLIVAN MACHINERY CO., People's** Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2189—Compressors (Hydraulic, for Web or T Rails, Etc.)

**AMERICAN STEEL & WIRE CO., Com**mercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2190— Compressors (Low Pressure)

**SULLIVAN MACHINERY CO., Peo**ple's Gas bldg. Chicago, Ill. (See adv. index & branch offices, end of book)

## 2191—Compressors (Motor Driven)

**SULLIVAN MACHINERY CO. (On** Mine Truck, etc.), People's Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2192—Compressors (Water Jet, Air)

**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

## Comptometers

(See Adding Machines)

## 2193— Concentrates

**Beer, Sondheimer & Co., 42 B'way, New York**
**Mountain Copper Co., San Francisco, Cal.**
**Selby Smelting & Lead Co., San Francisco Cal**

## 2194— Concentrators

Eagle Foundry Co., Fort Scott, Kans.
Metzger Chemical Co. (Perfumes & Soap Makers), 164 Front, New York

## 2195—Concentrators (Ammonia)

Gas Machinery Co., Cleveland, O.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Michigan Ammonia Works, Detroit, Mich.

## 2196—Concentrators (Ore)

**ALLIS-CHALMERS CO., Milwaukee.** Wis. (See adv. index & branch offices, end of book)
American Concentrator Co., Joplin, Mo.
American Grondal Co., 45 Wall, New York
Behrend Dry Concentrator Co. ("Dry & Wet"), 512 W 48th, New York
Brackel Concentrator Co. ("Dunham"), Joplin, Mo.
Chalmers & Williams, Chicago Heights, Ill.
Colorado Iron Works Co. ("Bartlett"), Denver, Colo.
Cresson, Geo. V. Co., Allegheny av, w of 17th, Phila., Pa.
Davis, F. M. Iron Works Co., Denver, Colo.
Deister Concentrator Co., Fort Wayne, Ind.
Denver Engineering Works Co., Denver, Colo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hendy, Joshua Iron Works ("Pinder"), San Francisco, Cal.
Huff Electrostatic Separator Co. ("Huff," Electrostatic), Boston, Mass.
James Ore Concentrator Co., Newark, N. J.
Knoxville Foundry & Machine Co. (For Low Crude Oil), Knoxville, Tenn.
Krogh Mfg. Co., San Francisco, Cal.
Krom Machine Works ("Krom" Universal Dry Ore), 170 B'way, New York; Works: Jeresy City, N. J.
Llewellyn Iron Works ("New Standard"), Los Angeles, Cal.
Mashek Engineering Co., 90 West, New York
Mecklenburg Iron Works, Charlotte, N. C.
Mill & Smelter Engineering Co., 114 Liberty, New York
Mine & Smelter Supply Co. ("Wilfrey"), 42 B'way, New York, & Denver, Colo.
Mining Machinery Sales Co. ("Eccleston," Tension), Los Angeles, Cal.
Modern Mining Machinery Co. ("Christenson"), 90 1st, Portland, Ore.
Monell Concentrator Mfg. Co. ("Monell"), Boulder, Colo.
National Ore Concentration Co., First Nat'l Bank bldg, Chicago, Ill.
**ORE DRESSING MACHINERY CO. ("Hen**nig"), 114-118 Liberty, New York
Portage Lake Foundry & Machinery Co., Hancock, Mich.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Salt Lake Engineering Works, Salt Lake City, Utah
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Stearns-Roger Mfg. Co., Denver, Colo.
Suttons, Steele & Steele (Inc.) ("S. S. & S."), Dallas, Tex.
Traylor Engineering Co., Allentown, Pa.
**Union Iron Works Co. ("Craven"), San Francisco, Cal.**
**United Iron Works Co. ("Ford"), Springfield, Mo.**
**Webb City & Carterville Foundry & Machine** Works, Webb City, Mo.
Woodbury, Geo. E. ("New Woodbury"), 238 Townsend, San Francisco, Cal.

## 2196a—Concentrators (Overstrom)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 2197—Concentrators (Surface Heating)

Bethlehem Foundry & Machine Co. ("Broome," for Chemical Works), South Bethlehem, Pa.
Zaremba Co. (High Density), Buffalo, N. Y.


# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

**Hendricks' Commercial Register**


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# M-C
## RAIL-TRACK CONCRETE MIXER
*"Most Mixing Least Fixing"*

**THIS**

is the *Drum Sprocket* of the famous

## MARSH-CAPRON *RAIL TRACK* CONCRETE MIXER.

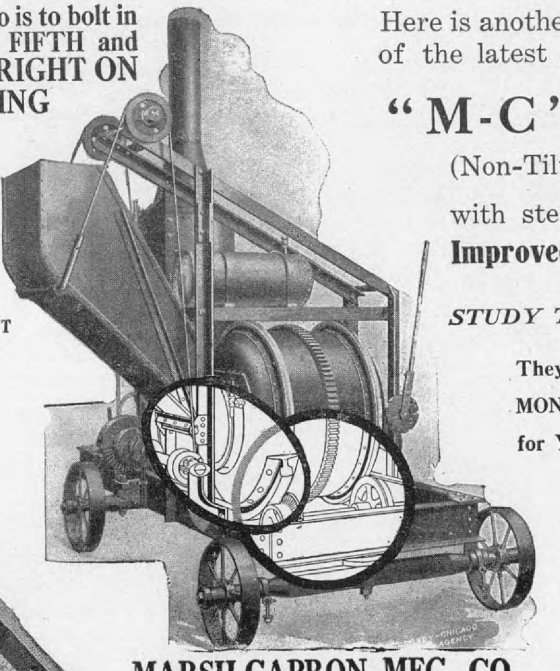
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**all you do is to bolt in a NEW FIFTH and KEEP RIGHT ON WORKING**



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(Non-Tilt Type)

with steam power and **Improved SIDE LOADER**

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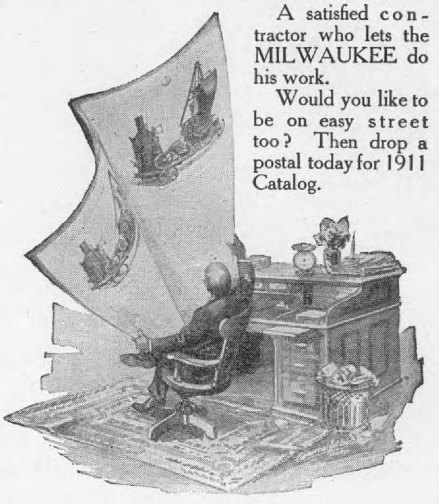
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LOS ANGELES, CAL.—A. F. George Co., 265 S. Los Angeles St.
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BALTIMORE, MD.—Maryland Equipment & Supply Co.
ROCHESTER, N. Y.—J. G. Ellendt, Builders' Exchange.
CLEVELAND, O.—McKenna Co., Williamson Bldg.
DULUTH, MINN.—Kelley-How-Thomson Co.
DENVER, COLO.—A. M. Ferguson, Nassau Block
DAVENPORT, IA.—Lumsden & Meier
NEW YORK, N. Y.—H. Ehrenberg, 35 Warren St.
BOSTON, MASS.—Meade & Co., 161 Summer St.
COLUMBUS, O.—Osborne & Sexton Machinery Co.
OKLAHOMA CITY, OKLA.—M. W. Johnson, 213 Sec'ty Bldg.
PITTSBURGH, PA.—The Contractors Machinery & Supply Co.
PHILADELPHIA, PA.—Howard W. Read Co.
SEATTLE, WASH., Northwestern Iron Works.
WINNIPEG, CAN.—Stuart Machinery Co.
LOUISVILLE, KY.—Thomas L. Barret, Board of Trade.
FORT WAYNE, IND.—W. D. Miller, 248 West Main st.
WASHINGTON, D. C.—H. L. VanAuken, Evans Bldg.
SAN FRANCISCO, CAL.—Berger & Carter, 504 Mission St.
BIRMINGHAM, ALA.—Vail King Supply Co.
LE MOYNE, PA.—J. B. Brunner
PINE BLUFF, ARK.—Eagle Iron Works
RICHMOND, VA.—Jos. A. Bell, 911 E. Main St.
KANSAS CITY, MO.—Fireproof Buildings Material Co.
CINCINNATI, O.—Cincinnati Iron & Steel Co.
CORRY, PA.—Corry Bridge & Supply Co.
VANCOUVER, B. C.—C. W. Stancliffe & Co., Ltd.
CHARLOTTE, N. C.—Good Roads Machine Co.

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## 2198— Concrete Binder

Cargill Mfg. Co., Columbus, O.
**CONSOLIDATED EXPANDED METAL** Co.'s, Keenan bldg, Pittsburg, Pa.
Corrugated Bar Co., Nat'l Bank of Commerce bldg, St. Louis, Mo.
**Expanded Metal Engineering Co., 1182 B'way,** New York
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**Truss Metal Lath Co. ("Kuhne's" System of Reinforced Concrete), 147 4th av, New York**

## 2199— Concrete (Bond)

**RANSOME CONCRETE MACHINERY** Co. ("Ransomite"), Dunellen, N. J. (See adv. index & branch offices, end of book)

## 2200— Concrete Coating (Asbestos)

**JOHNS, H. W.-MANVILLE CO.** ("J-M"), 100 William. New York. (See adv. index & branch offices, end of book)

## Concrete Construction

(See Concrete Steel Construction, Reinforced; also Contractors, General)

## 2201—Concrete Curb (Steel Bound)

Concrete Edge Protector Co., Detroit, Mich.
Steel Protected Concrete Co. ("The Wainwright"), Real Estate Trust bldg, Phila., Pa.

## 2201a—Concrete Floors (Steel Woven Wood Block)

**WOOD-MOSAIC CO. (For Fireproof** Buildings), Main Office & Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

## 2202—Concrete Floors & Arches

(See also Concrete Steel Construction, Reinforced; also Fireproofing, Various Systems)
American Concrete Steel Co., Union bldg, Newark, N. J.
Blome, R. S. Co., Unity bldg, Chicago, Ill.
Golliek & Smith, 162 E 23d, New York
Klotz, A. E. Fireproofing Co., 137th & Madison av, New York
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Monsted, A. & Co. ("Ransome" System), Milwaukee, Wis.
National Concrete Fire-Proofing Co., Williamson bldg, Cleveland, O.
Standard Concrete Steel Co., 413 E 31st, New York
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)
Turner Construction Co. ("Ransome" System), 11 B'way, New York
Union Construction & Water-Proofing Co., 1133 B'way, New York
Vulcanite Paving Co. ("Bromley" System), Land Title bldg, Phila., Pa.

## 2203— Concrete Forms

**Hotchkiss Lock Metal Form Co. (Combined** Curb & Gutter Forms), Binghamton, N. Y.
**Invinsible Concrete Form Co. ("Invinsible" for** Buildings, etc.), Delmar blvd., St. Louis, Mo.
**Merillat Culvert Core Co. (Adjustable, Collapsible, etc.), Winfield, Ia.**

## Concrete Forms (Collapsible)

(See Centering, Steel)

## 2204—Concrete Hanger Supports

Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.

## 2205— Concrete Inserts

Concrete Steel Products Co., Monadnock blk, Chicago, Ill.
Farwell, Ozmun, Kirk & Co. ("Bigelow" Adjustable), St. Paul, Minn.
**INSLEY MFG. CO. (Shaft Hanger),** Indianapolis, Ind. (See adv. index & branch offices, end of book)

## 2206—Concrete Mixer Parts

**American Brake Shoe & Foundry Co. (Manganese Style), Chicago, Ill. & New York**
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 2207— Concrete Mixers

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Ashland Steel Range & Mfg. Co. ("United States Standard"), Ashland, O.
Ballou Mfg. Co. ("Demorest," "Little Giant"), Belding, Mich.
Barron & Cole Co. ("Nims"), 127 Franklin, New York
**BARTLETT, C. O. & SNOW CO.** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Blystone Mfg. Co. ("Blystone," Batch), Cambridge Springs, Pa.
Bolte, T. H. ("Bolte"), Kearney, Neb.
Buckeye Engine & Foundry Co. ("Buckeye"), Joliet, Ill.
Buffalo Concrete Mixer Co. (Automatic), Buffalo, N. Y.
Burrell Mfg. Co. ("X-L-All," Traction), Bradley, Ill.
Butler Concrete Machinery Co. ("20th Century," Continuous), Butler, Ind.
Byers, John F. Machine Co., Ravena, O.
**Cargill Mfg. Co. ("American," Batch & Continuous), Columbus, O.**
**CARLIN'S, THOS. SONS CO. (Stationary Cube & Portable), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)**
**Cement Machinery Co. ("Systematic"), Jackson, Mich.**
**Cement Tile Machinery Co. ("Perfection"), Waterloo, Iowa**
**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)
Century Cement Machine Co. ("Hercules" Continuous), Rochester, N. Y.


NOTICE.

This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

S. E. HENDRICKS CO.,
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NEW YORK, N. Y.


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**CHAIN BELT CO. (Chain Belt), Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chambers Bros. Co. (Small Portable), 52d, bel Lancaster av, Phila., Pa.
Chicago Concrete Machinery Co. ("Chicago"), Denver, Colo.
Clover Leaf Machine Co. ("Clover Leaf"), South Bend, Ind.
Cockburn Co. ("Cockburn" Cubical), Jersey City, N. J.
Colorado Concrete Mixer Co. ("Colorado"), Denver, Colo.
Cook Mfg. Co., Albion, Mich.
Cream City Equipment Co. ("Cream City," Batch), Milwaukee, Wis.
Cropp Concrete Machinery Co. ("Cropp"), 84 Lasalle, Chicago, Ill.
**Demorest Mfg. Co. ("New State," Hand & Power), Enid, Okla.**
**Drake Standard Machine Works, 1028 W Jackson boul, Chicago, Ill.**
Elite Mfg. Co. (Low Down Forced Feed), Ashland, O.
Eureka Machine Co. ("Eureka"), Lansing, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago. Ill. (See adv. index & branch offices, end of book)
Foote Mfg. Co. ("Foote"), Nunda, N. Y.
Gauntt, F. Mfg. Co. ("Gauntt" Batch or Continuous), Ft. Wayne, Ind.
General Distributing Co., Jackson, Mich.
Hains Concrete Machinery Co. ("Hains" Automatic & "20th Century"), Union Trust bldg, Washington, D. C.
Hains-Weaver-Concrete Mixer Co. ("Hains-Weaver," Telescopic), 13 Park row, New York
Hall-Holmes Co. ("Grand"), Jackson, Mich.
**Hayden Automatic Block Machine Co. ("Hayden), Columbus, O.**
Jaeger Machine Co. ("Positive"), Columbus, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**Kent Machine Co. ("Kent," Continuous), Kent, Ohio**
**Kingston Mfg. Co. ("Hadsel"), Kingston. Pa.**
Knickerbocker Co. ("Coltrin"), Jackson, Mich.
**KOEHRING MACHINE CO. ("Koehring"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Lake City Cement Machinery Co. ("Lake City Queen," Continuous), Lake City, Ia.
Louisville Machine Co., Louisville, Ky.
**McMYLER-INTERSTATE CO., 1799 Columbus rd., Cleveland, O. Works, Warren, O. (See adv. index, end of book)**
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
**MARSH CO. ("Miracle," Cube Mixer,** also Hand Mixers), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH-CAPRON CO. ("Marsh"** Batch Mixers; also "Marsh" Batch Non-Tilting Mixer), 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co. ("Milwaukee"), Milwaukee. Wis. (See adv. index & branch offices, end of book)
Monarch Mfg. Co. ("Monarch"), Grand Rapids, Mich
**Municipal Engineering & Contracting Co. ("Chicago" Cube), Railway Exchange bldg Chicago, Ill**
**National Mixer Co. ("National"), Rochester N. Y.**
Ohio Ceramic Engineering Co. ("Lakewood"), Cleveland, O.
**Queen City Brick Machine Co., Traverse City Mich**
**Raber & Lang Mfg. Co. ("Crescent" Continuous), Kendallville, Ind.**
**RANSOME CONCRETE MACHINERY Co. (Hand Power & Gravity), Dunellen N. J.** (See adv. index & branch offices, end of book)
Sidney Elevator Mfg. Co. ("Perfection," Hand Mixer), Sidney, O.
**SMITH, T. L. CO., THE ("Smith,"** Power & Hand), Majestic bldg, Milwaukee. Wis. (See adv. index & branch offices, end of book)
Snell, R. Z. Mfg. Co. ("Snell," Hand & Power) South Bend, Ind.
**Standard Scale & Supply Co. ("Eclipse"), Pittsburg, Pa.)**
Svenson-Shuman Machine Co. ("Svenson"), Pittsburg, Pa.
**UNION ELEVATOR & MACHINE CO.** ("Channon"), 215 W Ontario, Chicago. Ill. (See adv. index, end of book)
Universal Road Machinery Co., Kingston, N. Y.
Waterloo Cement Machinery Co. ("Polygon"), Waterloo, Ia.
**X-L-All Mfg. Co. ("X.-L.-All" Combination Batch & Continuous Mixer, Also Traction Mixers), 21 S Clinton, Chicago, Ill.**

## 2208—Concrete Mixers for Export

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co., Milwaukee, Wis. (See adv. index & branch offices, end of book)
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices. end of book)
**SMITH, T. L. & CO., THE, Majestic** bldg., Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 2209—Concrete Mixers (Hand Power)

**SMITH, T. L. CO., THE ("Smith,"** Batch), Majestic bldg. Milwaukee, Wis. (See adv. index & branch offices, end of book)

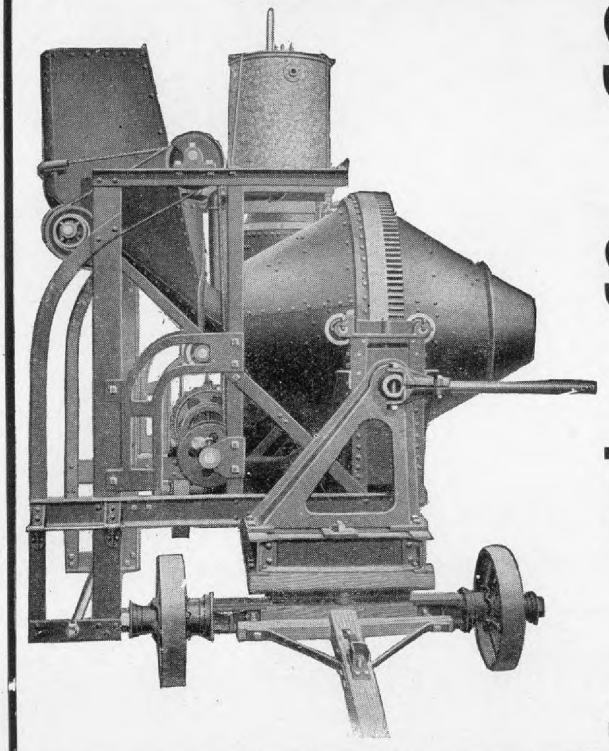
## 2209a—Concrete Reinforcing Bars (Iron and Steel)

(See also Concrete Reinforcing Materials. This list contains only the Rolling Mills who roll this material, with the exception of advertisers who appear in Black Type)

American Car & Foundry Co. (Open Hearth Steel, Plain & Mechanical Bond Bars, ½-Inch & Up), St. Louis, Mo., & 165 B'way. New York
Atlanta Steel Co. (Open Hearth Steel, Twisted, Plain & Corrugated Bars Up to 80 Feet). Atlanta, Ga.
Buffalo Steel Co. (Bessemer Steel, Twisted & Spiral, Plain Rounds & Squares), Buffalo. N. Y.
California Industrial Co. (Steel Rounds & Squares, ⅜ to 1½ Inches Up to 50 Feet). Los Angeles, Cal.
Calumet Steel Co. (Bessemer Steel Rounds & Twisted Squares of Any Length), Commercial National Bank, Chicago, Ill.
**Cambria Steel Co. (Bessemer & Open Hearth** Bars from ¼ to 1⅛ Inches Square Up to 60 Feet), Johnstown, Pa.
Carnegie Steel Co. (Bessemer & Open Hearth Steel Squares Up to 1½ Inches & 30 Feet Long & Deformed Bars ¼ to 1½ Inches Up to 60 Feet Long), Pittsburg, Pa
Chrome Steel Works (Special Shape Steel Bars), Chrome, N. J.
Colorado Fuel & Iron Co. (Iron & Open Hearth Steel, Twisted & Corrugated Bars From ¼ to 1½ Inches Up to 60 Feet), Denver, Colo.
Crucible Steel Co. of America (Steel Squares From ¼ to 1¼ Inches & Assorted Sizes of Flats & Twisted Up to 60 Feet), Pittsburg. Pa.
Fort Wayne Rolling Mill Co. (Iron & Open Hearth Steel Bars Up to 60 Feet), Fort Wayne. Ind.
Franklin Steel Co. (Bessemer Steel Twisted Rounds & Squares ¼ to 1¼ Inches & Flats from ⅛x1 to ⅜x2½ Inches Up to 60 Feet), Franklin, Pa.
**GOFF, HORNER & CO. (Ltd.) (Square** Twisted & Plain Rounds, Square & Flat Steel Bars, etc.), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Harrow Spring Co. (Iron & Bessemer & Open Hearth Steel Plain Bars), Kalamazoo, Mich
Helmbacher Forge & Rolling Mill Co. (Open Hearth Steel Plain & Bond Bars, ½-Inch & Up, of All Lengths), St. Louis, Mo.
Hirsch Rolling Mill Co. (Bessemer & Open Hearth Steel Rounds, Squares & Flats Any Size Up to 2½ Inches & Any Length), St. Louis, Mo.
Illinois Steel Co. (Bessemer & Open Hearth Steel, Rounds & Squares ⅝ to 2 Inches, & From 18 to 60 Feet in Length), Chicago. Ill
Inland Steel Co. (Open Hearth Steel Rounds, Squares Plain & Twisted Bars Up to 30 Feet in Length), 164 Dearborn, Chicago, Ill
Iron & Steel Products Co. (Iron Rounds, Squares & Flats Any Size & Up to 35 Feet in Length), Real Estate Trust bldg, Phila., Pa
Interstate Iron & Steel Co. (Iron & Bessemer & Open Hearth Steel Rounds & Plain & Twisted Squares From ⅜ to 3 Inches Up to 100 Feet), 164 Dearborn, Chicago, Ill
Janson Steel & Iron Co. (Iron & Steel Bars Any Size & Any Length), Columbia, Pa.
Jones & Laughlin Steel Co. (Bessemer & Open Hearth Steel Diamond Bars & Twisted Squares Any Size), Pittsburg, Pa.
Knoxville Iron Co. (Iron Twisted Squares From ⅜ to 1 Inch Up to 36 Feet), Knoxville, Tenn.
Lackawanna Steel Co. (Bessemer & Open Hearth Steel ¼ to 1¼ Inch Twisted Squares, Plain Rounds & Squares & "Maxwell" & Corrugated Bars Up to 60 Feet), Buffalo, N. Y.
Lebanon Valley Iron & Steel Co. (Iron & Steel Bars All Sizes & Any Length), Lebanon, Pa.
Lockhart Iron & Steel Co. (Iron & Steel Rounds, Flats, Squares, Hexagons, etc.), Pittsburg, Pa. Works: McKeesport Rocks, Pa.
Logan Iron & Steel Co. (Iron & Bessemer & Open Hearth Steel Plain Rounds, Flats & Squares), Burnham, Pa.
New Haven Iron & Steel Co. (Iron & Open Hearth Steel Bars Up to 45 Feet in Length), New Haven, Conn.
North Alabama Rolling Mill Co. (Iron Rounds or Squares ⅜-Inch Up, Any Length), Sheffield, Ala.
Pardee Works (Inc.) (Open Hearth Steel Full Length Rounds & Twisted Squares), Perth Amboy; N. J.
Pennsylvania Steel Co. (Bessemer & Open Hearth Steel Plain Rounds, Squares of Merchant Mill Lengths), 1421 Chestnut, Phila., Pa.
Portland Iron & Steel Co. (Iron & Open Hearth Steel Plain & Twisted Rounds, Squares, Etc., Up to 150 Feet in Length), South Portland, Me.
Railway Steel Spring Co. (Open Hearth Steel Rounds, Squares & Deformed Bars From ¼-Inch to 2-Inch Rounds & Up to 100 Feet in Length), 30 Church, New York. Works: Detroit, Mich.
Republic Iron & Steel Co. (Iron & Bessemer & Open Hearth Steel Rounds, Squares & Deformed or Twisted Bars of Any Length Up to 90 Feet), Pittsburg, Pa.
Rockaway Rolling Mills (Iron & Open Hearth Steel Rounds, Flats, Squares, Etc., Any Length), Rockaway, N. J.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sapulpa Steel & Iron Mills (Iron & Steel Bars For Reinforced Work), Sapulpa, Okla.
Schuykill Haven Iron & Steel Co. (Iron & Bessemer & Open Hearth Steel Rounds, Flats, Squares & Twisted Bars of Any Length), Arcade bldg, Phila., Pa. Works: Schuylkill Haven, Pa.
Scranton Bolt & Nut Co. (Iron & Steel Rounds & Squares Any Length), Scranton. Pa.
Slatington Rolling Mill (Reinforcing Iron Bars), Slatington, Pa.
Sweet's Steel Co. (Open Hearth Steel Diamond Bars From ¼ to 1¼ Inches Up to 75 Feet in Length), Williamsport, Pa.
Sylvester Co. (Iron & Steel Plain Rounds, Squares, Etc., Any Length), Boston, Mass.
Tennessee Coal, Iron & R. R. Co. (Open Hearth Steel Rounds & Squares), Birmingham, Ala.
Texas Rolling Mill Co. (Iron & Steel Square & Knotted Bars From ⅜ to 1¼ Inches Up to 120 Feet in Length), Fort Worth, Tex.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
Western Steel Corporation (Open Hearth Steel Bars For Reinforced Work), Seattle, Wash.

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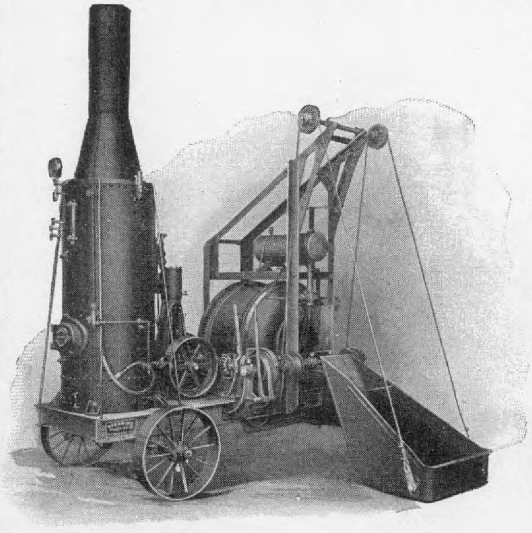


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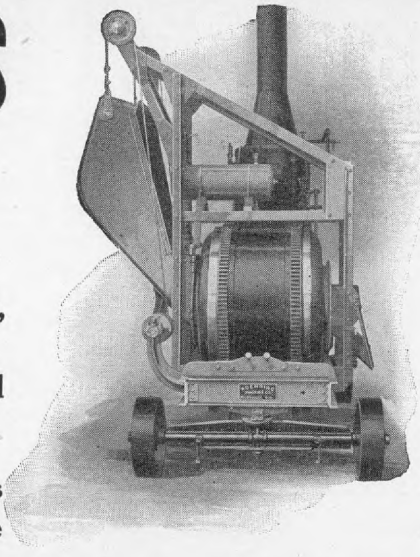
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## 2210—Concrete Reinforcing Materials

(See also Reinforced Concrete Bars)

American Concrete Steel Co., Jersey City, N. J.

**AMERICAN ROLLING MILL CO.** ("Kuhne's" Truss & Clincher Lath), Middletown, O. (See adv. index & branch offices, end of book)

American Sheet & Tin Plate Co. (Steel), Frick bldg, Pittsburg, Pa.

**AMERICAN STEEL & WIRE CO.** (Triangular Mesh), Com. Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

American System of Reinforcing ("American" Systems of Rods & Wire Fabric), 218 Lasalle, Chicago, Ill.

American Wire Fence Co. (Wire Fibre & High Carbon Rods, Round & Twisted Shapes), 218 Lasalle, Chicago, Ill.

**BERGER MFG. CO., THE ("Ferro-**Lithic" Interlocking Plates for Concrete), Canton, O. (See adv. index & branch offices, end of book)

**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end

Bourne-Fuller Co., Cleveland, O. of book)

**BROWN HOISTING MACHINERY CO.** ("Ferroinclave"), Cleveland, O. (See adv. index & branch offices, end of book)

Buffalo Steel Co. (High Carbon Steel Twisted Bars, Plain Bars, Rounds, Squares, Flats), Tonawanda, N. Y.

Calumet Steel Co. (Steel Bars & Shapes, Plain & Twisted Squares), Chicago Heights, Ill.

Cambria Steel Co. (Twisted Steel Bars), Johnstown, Pa.

Cargill Mfg. Co. (Steel Wire Fabric & Cables), Columbus, O.

Carnegie Steel Co. (Twisted Steel Bars), Pittsburg, Pa.

Clinton Wire Cloth Co. (Electrically Welded Steel Wire Fabrics), Clinton, Mass.

Concrete-Steel Co. ("Havemeyer" Steel Bars, etc.), 29 B'way, New York

Concrete Steel Engineering Co. ("Melan," "Thacher" & "Emperger" Steel Bars, etc.), Park Row bldg., New York

Concrete Steel Products Co. (Twisted & Plain Round Bars, Electric Welded Hoops & Folding Special Frames, etc.), Monadnock blk, Chicago, Ill.

**CONSOLIDATED EXPANDED METAL** Co.'s, Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Corrugated Bar Co. (Corrugated Steel Bars), Nat'l B'k of Commerce bldg, St. Louis, Mo.

Expanded Metal Engineering Co., 1182 B'way, New York

Franklin Steel Co. (Steel Bars, Plain Rounds & Squares & Square Twisted, Franklin, Pa.

Gabriel Concrete Reinforcement Co. ("Gabriel" Reinforcing Bar), Detroit, Mich.

**GENERAL FIREPROOFING CO.** (Expanded Metal & Wire Fabric), Youngstown, O. (See adv. index & branch offices, end of book)

**GOFF, HORNER & CO., Ltd. (Square,** Twisted & Plain Rounds, Square & Flat Steel Bars, etc.), Offices, Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)

Hudson Structural Steel Co. ("Hudson" Steel Bar), Southern boul & 136th, New York

Inland Steel Co. (Steel Twisted Bars, Plain Bars, Rounds, Squares & Flats), First Nat'l Bank bldg, Chicago, Ill. Works, Chicago Heights, Ill., & Indiana Harbor, Ind.

Interstate Iron & Steel Co. (High Carbon Steel, Plain & Special Bars), First Nat'l. Bank bldg., Chicago, Ill.

Jones & Laughlin Steel Co. (Twisted Steel Bars), Pittsburg, Pa.

**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

Mississippi Valley Construction Co. ("Slant-Rib" Bar), St. Louis, Mo.

Monolith Steel Co. (Inc.) ("Monolith" Steel Bars), Washington, D. C.

National Wire Cloth Co. ("National" System of Bars & Rods Fastened together with "National" Chairs), Sandusky, O.

Northwestern Expanded Metal Co., Old Colony bldg, Chicago, Ill.

Page Woven Wire Fence Co. (Reinforcing Wire Fabric), Adrian, Mich.

Pittsburg Steel Products Co. ("Pittsburg," Standardized Reinforcement Made of Open Hearth Steel), Pittsburg, Pa.

Portland Iron & Steel Co. (Steel Bars Plain Round & Square, Twisted Square & Flat), Portland, Me.

Republic Iron & Steel Co. (Rounds, Flats, Squares & Cold Twisted Bars), Pittsburg, Pa.

Rogers-Shear Co. (Twisted, Plain & Corrugated Steel Bars), Warren, Pa

Schillinger Bros. Co. (Special Bars & Appliances), Chicago, Ill.

**SMITH, F. P. WIRE & IRON WORKS** (Spiral Column, Stirrups & Shear Bars for Concrete Beams, Columns, etc.), Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)

Steel Fireproof Construction Co. (Cellular Steel & "Keyridge" Steel), Cincinnati, O.

**TRUSSED CONCRETE STEEL CO., (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)**

Union Steel Screen Co. (Ltd.) ("Union," Interlocking System), Albion, Mich.

Wight, W. N. & Co. (Lock Woven Steel Fabric), 7 W 38th, New York

Wire Specialty Works (Wire Anchors, Rods, Wall Ties, Post Staples, etc.), 551 Fulton, Chicago, Ill.

**WRIGHT WIRE CO. (Material, Wire** Fabrics, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

## 2211— Concrete Sockets

Farwell, Ozmun, Kirk & Co. ("Bigelow"), St. Paul, Minn.

**INSLEY MFG. CO. (Shaft Hanger),** Indianapolis, Ind. (See adv. index & branch **offices, end of book)**

Liebrich, Fred ("Bigeton" Adjustable Socket Bracket, Hanger or Insert for Concrete Construction, Made of Malleable Iron), Monadnock blk, Chicago, Ill.

## 2213—Concrete Steel Construction (Reinforced)

Aberthaw Cons. Co., 8 Beacon, Boston, Mass.

Altoona Concrete Construction & Supply Co., Altoona, Pa.

Ambursen Hydraulic Construction Co. (Dams, Bulkheads, etc.), 176 Federal, Boston, Mass.

American Concrete Steel Co., Newark, N. J.

American Construction Co., Rockefeller bldg, Cleveland, O.

Armored Concrete Construction Co., 1210 Block, Baltimore, Md.

Baltimore Ferro Concrete Co., Baltimore, Md.

Bates & Rogers Construction Co. (Heavy Bridge Work, etc.), 84 Van Buren, Chicago, Ill.

Bender Co., Hamilton, O.

Bentley, A. & Sons Co., Toledo, O.

Berlin Construction Co. (Bridges, Buildings, etc.), Berlin, Conn.

Bick, J. N., The Nasby, Toledo, O.

Blome, R. S. Co., 79 Dearborn, Chicago, Ill.

**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)

**BROWN HOISTING MACHINERY** Co. ("Ferroinclave"), Cleveland, O.; 26 Cortlandt, New York, & Pittsburg, Pa. (See adv. index, end of book)

Brown, Jno. G., Witherspoon bldg, Phila., Pa.

Buffalo Expanded Metal Co., Buffalo, N. Y.

Bunting-Bull Co., 1 Madison av, New York

Carey Construction Co., Cleveland, O.

Carmichael, Wm. P. Co., Williamsport, Ind.

Cary Bros. (Plain & Reinforced), Memphis, Tenn.

Central Concrete Const. Co., Louisville, Ky.

Centurian Concrete Steel Co., 1182 B'way, New York

Central States Bridge Co. (Heavy Concrete Work), Indianapolis, Ind.

Clough Concrete Construction Co., Quincy, Ill.

Columbian Concrete Steel Bar Co. ("Columbian" System), Pittsburg, Pa.

Concrete Interlocking Steel Corp. ("DuMazuel" System), 105 W 40th, New York

Concrete Steel Co., 29 B'way, New York

Concrete Steel Engineering Co. (Bridges, Floors, Docks, etc.), Park Row bldg, New York

Concrete Steel Products Co. (Centilever Flat-Slab or Girder Frame Construction), Monadnock blk, Chicago, Ill.

Cranford Paving Co., Washington, D. C.

Crescent Concrete Co., Buffalo, N. Y.

Cummings Structural Concrete Co. ("Cummings" System), McKees Rocks, Pa.

Curtin-Ruggles Co., 39 Cortlandt, New York

Curtiss & Dean, 22 Hopkins, Hartford, Conn.

Denholm & Co., Cincinnati, O.

Durolithic Co., 460 Endicott Sq., Buffalo, N. Y.

Eastern Concrete Steel Co., Buffalo, N. Y.

Eastern Concrete Const. Co., Boston, Mass.

Eid, L., Concrete Steel Co., Cincinnati, O.

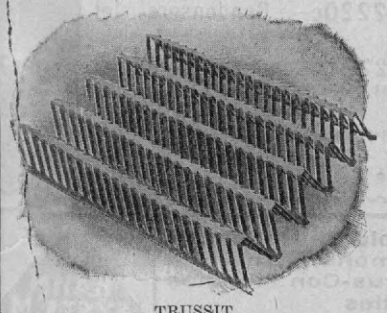
Engineering Construction Co., Scranton, Pa.

Evans, David E. & Co., 11 E. Lexington, Baltimore, Md.

Expanded Metal Engineering Co. (Reinforced), 1182 B'way, New York

Expanded Metal Fireproofing Co. (of Pittsburg, Pa.), 541 Wood, Pittsburg, Pa.


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**Fell, Henry R. Co., Trenton, N. J. Ohio**
Ferro-Concrete Construction Co., Cincinnati, O.
Filbert Paving & Construction Co., Penna bldg, Phila., Pa.
Foster-Creighton-Gould Co., Nashville, Tenn.
Freeborn Engineering Construction Co. Kansas City, Mo.
Gabriel Concrete Reinforcement Co. ("Gabriel" System), Detroit, Mich.
Geisel Construction Co. (Bridges, etc.), 620 Chestnut, St. Louis, Mo.
General Construction Co., Milwaukee, Wis.
**GENERAL FIREPROOFING CO., Youngstown, O.** (See adv. index & branch offices, end of book)
Gilsonite Construction Co., Wainwright bldg, St. Louis, Mo.
Godwin Const. Co., 30 Church, New York
Golliek, Stanley Co., 355 W 26th, New York
Golliek & Smith, 162 E 23d, New York
Grant, Geo. J. Construction Co., St. Paul, Minn.
Great Lakes Dredge & Dock Co., Chamber of Commerce bldg, Chicago, Ill.
Great Northern Concrete Co., Milwaukee, Wis.
Greenfield, Arthur (Inc.) (Reinforced Floors, etc.), 134 E 31st, New York
Guarantee Const. Co., 90 West, New York
Harvey-Burden Const. Co., St. Louis, Mo.
Hindman-Henderson Co. (Concrete Steel Structures), 245 4th av, Pittsburg, Pa.
Hennebique Construction Co. (Armored Concrete), 1170 Broadway, New York
Heyworth, J. O., Harvester bldg, Chicago, Ill.
Hinchman-Renton Fireproofing Co., Denver,
Hoeffer & Co., 138 Wash'n, Chicago, Ill. Colo.
Hopkins-Barnett Co., Calvert bldg, Baltimore, Md.
Hudson Concrete Construction Co., Jersey City, N. J.
Hudson Structural Steel Co., 136th & So. boul,
Huebner, J. A., Baltimore, Md.
Hunt Engineering Co., Iola, Kan. New York
Industrial Engineering Co., 30 Church, New York
Kansas City Bridge Co., Kansas City, Mo.
Lanquist & Illsley Co., 1100 N Clark, Chicago,
Leighton, H. N. Co., Minneapolis, Minn. Ill.
Ley, F. T. & Co., Springfield. Mass.
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Mansfield Engineering Co., Bd. of Trade bldg, Indianapolis, Ind.
Masters & Mullen Const. Co., Cleveland, O.
Melber Co. (Inc.) ("Melber" Structural Ferro Cement), Pittsburg, Pa.
Memphis Bridge Co., Memphis, Tenn.
Menke, F. W. Stone & Lime Co., Quincy, Ill.
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Monsted, A. & Co., Pabst bldg, Milwaukee
Moore-Mansfield Construction Co. (Inc.), Board of Trade bldg, Indianapolis, Ind.
Moyer Engineering & Construction Co., 375 Fulton, Brooklyn, N. Y.
National Concrete Co. (Bridges, etc.), Indianapolis, Ind.
National Concrete Const. Co., Louisville, Ky.
National Concrete Fireproofing Co., Williamson bldg, Cleveland, O.
National Supply & Construction Co., Ellwood City, Pa.
Nelson-Merydith Co., Chambersburg, Pa.
Neuchatel Asphalte Co. (Ltd.), 265 B'way, N. Y.
Newton Engineering Co. ("Kahn" System), Milwaukee, Wis.
Nicola Building Co., Pittsburg, Pa.
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Noel Construction Co. ("Large"). Baltimore,
Northwest Bridge Works, Portland, Ore. Md.
**OSBORN ENGINEERING CO., Osborn** bldg., Cleveland, O., & Land Title bldg., Phila., Pa. (See adv. index, end of book)
People's Construction Co., Davenport, Ia.
Pueblo Bridge Co. (Bridges, etc.), Pueblo, Colo.
Rackle, Geo. & Son Co., Cleveland, O.
Read-Coddington Engineering Co., Niagara Falls, N. Y.
Reinforced Concrete Co., St. Louis, Mo.
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Schillinger Bros. Co., Chicago, Ill.
Schillinger Bros. Co., Toledo, O.
Simpson Bros. Corporation, 166 Devonshire, Boston, Mass.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Southern Ferro-Concrete Co., Atlanta, Ga.
Stark, N. M. & Co. (Bridges, etc.), Des Moines, Iowa
Standard Concrete Construction Co., 184 La Salle, Chicago, Ill.
**Standard Concrete Steel Co., 413 E 31st, New York**
Stebbings, W. L. (Also Plain Concrete Work), Monadnock blk., Milwaukee, Wis.
Sterling Engineering & Const. Co., Milwaukee, Wis.
**Stitzer, Jas. Hubert, Jr., Commonwealth Trust bldg, Phila., Pa.**
Swenson Construction Co., Kansas City, Mo.
Syracuse Bridge Co. (Bridges, Foundations, etc.), Syracuse, N. Y.
**Talbot, H. E. Co. (Bridges, Buildings, etc.), Dayton, O.**
Topeka Bridge & Iron Co. (Bridges, etc.), Topeka, Kan.
Truss Metal Lath Co. (Kuhne's), 147 4th av, New York
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)
Trussed Concrete Steel Co., Trussed Concrete bldg, Detroit, Mich.
Tucker & Vinton (Steel Concrete Structures), 103 Park av, New York
Tunnel Concrete Co. (Tunnel Lining a Specialty), 15 Broad, New York
Turner Const. Co. ("Ransome" Reinforced Concrete Construction), 11 B'way, New York
Turner-Forman Concrete Steel Co., 1314 Arch, Phila., Pa.
**Union Engineering & Construction Co., First National Bank bldg, Chicago, Ill.**
**Weber Chimney Co. (Reinforced Concrete Chimneys, etc.), 209 State, Chicago, Ill.**
Western Expanded Metal & Fireproofing Co., San Francisco, Cal.
Wisconsin Cement Const. Co., Milwaukee, Wis.
**Youngstown Const. Co., 30 Church, New York**

## 2214— Condensers (Air)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)

## 2215—Condensers (Ammonia)

Baker Ice Machine Co., Omaha, Neb.
**Carbondale Machine Co., Carbondale, Pa.**
**Columbus Iron Works Co., Columbus, Ga.**
**Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa**
**Kupferle Bros. Mfg. Co., St. Louis. Mo.**
**Triumph Ice Machine Co., Cincinnati, O.**
**Wolf, Fred. W. Co., 827 Rees, Chicago, Ill.**
**York Ice Machine Mfg. Co., Ltd., York, Pa.**

## 2216—Condensers (Barometric)

Alberger Pump Co., 140 Cedar, New York
**ALLIS-CHALMERS CO. ("Tomlinson"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CAMERON, A. S., STEAM PIPE** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**Heisler Mfg. Co., St. Marys, O.**
**Mesta Machine Co. ("Helander"), Pittsburg, Pa.**
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Wheeler, C. H. Mfg. Co., Lehigh av. & N 18th, Phila., Pa.
**WHEELER CONDENSER & ENGI**neering Co., Cartaret, N. J. (See adv. index & branch offices, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 2217—Condensers (Chemical Works, Etc.)

Baeuerle & Morris, 932 N Front, Phila., Pa.

## 2218—Condensers (Ejector)

**BLAKE, GEO. F. MFG. CO. ("Spiro**jector"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 2219—Condensers (Electric)

**Bunnell, J. H. & Co., Park pl. & Church,**
Electric Specialty Co., Cresco, Ia. New York
Foote, Pierson & Co., 160 Duane, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Heine, Wm. A. Washington, D. C.
**LEEDS & NORTHRUP CO., Stenton** av, Gtn, Phila., Pa. (See adv. index, end of book)
Marshall, William, 709 Lexington av, New York
Pearce, Fred'k Co., 20 Rose, New York
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Warner Electric Co., Muncie, Ind.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 2220— Condensers (Gas)

(See also Gas Works Apparatus & Construction)
Bartlett, Hayward & Co., Baltimore, Md.
Continental Iron Works, West & Cayler, Brooklyn, N. Y.
Cruse-Kemper Co., Ambler, Pa.
Gas Mach'y Co., Citizens' bldg, Cleveland, O.
Isbell-Porter Co. (Primary & Secondary for Fresh or Salt Water), Newark, N. J.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Stacey Mfg. Co., Cincinnati, O.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 2220a—Condensers (Ice Machine)

**GRISCOM-SPENCER CO., 90 West,** New York. (See adv. index, end of book)

## 2220b—Condensers (Independent)

(See Condensers, Steam)

## 2220c— Condensers (Jet)

(See Condensers, Steam)

## 2221—Condensers (Oil Refining)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**PETROLEUM IRON WORKS CO. ("Leman," "Counter Current"), Sharon,** Pa. (See adv. index & branch offices, end of book)

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United Steel Sash—Trus-Con Waterproofing—Trus-Con Finishes
Hollow Tile—Building Specialties

TRUSSED CONCRETE STEEL COMPANY
DETROIT, MICHIGAN
ENGINEERING AND SALES OFFICES IN PRINCIPAL CITIES (See Adv. Index)

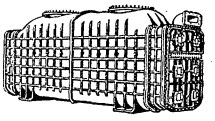
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# WHEELER CONDENSER & ENGINEERING CO.

## CARTERET, N. J.

**Surface Barometric and Jet Condensers, Feed Water Heaters, Centrifugal Pumps, Rotative Dry Vacuum Pumps, Wheeler-Edwards Air Pumps, Wheeler-Barnard Cooling Towers, Castings for Chemical Industries**

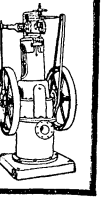


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**WHEELER CONDENSER & ENGINEERING CO.**

Branches in all large cities

**Head Office, Carteret, N. J.**




## 2222—Condensers (Steam)

**ADVANCE PUMP & COMPRESSOR** Co. (Jet), Battle Creek, Mich. (See adv. index, end of book)

Alberger Pump Co. ("Wainwright"), 140 Cedar, New York

**ALLIS-CHALMERS CO. (Jet),** Milwaukee, Wis. (See adv. index & branch offices, end of book)

**AMERICAN STEAM PUMP CO. (Jet** & Surface), Battle Creek, Mich. (See adv. index, end of book)

Atmospheric Condensation Co. ("Pennell"), Kansas City, Mo.

Baeuerle & Morris (Surface, Brass, Copper, Iron, Steel & Block Tin), 932 N Front, Phila., Pa.

Baragwanath, Wm. & Son, (Siphon & Surface), 1260 W Division, Chicago, Ill.

**BLAKE, GEO. F. MFG. CO. (Jet, Sur**face), B'way & Cedar, New York. (See adv. index & branch offices, end of book)

Blake Pump & Condenser Co. (Air & Steam Turbine, etc.), Fitchburg, Mass.

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)

Buffalo Steam Pump Co. (Jet, Surface, etc.), Buffalo, N. Y.

Bulkley, Henry W. ("Bulkley" Air Pump, Injector, etc.), 141 B'way, New York

Butler Mfg. Co. ("B. M. C." Flask), Kansas City, Mo.

**CAMERON, A. S. STEAM PUMP** Works (Jet, Surface, etc.), 433 E 23d, New York. (See adv. index & branch offices, end of book)

Canton-Hughes Pump Co. (Jet, Crank Wheel, etc.), Wooster, O.

Central Boiler & Sheet Iron Works, Indianapolis, Ind.

Cooper, C. & G. Co. (For Large Plants), Mount Vernon, O.

Davidson, M. T. (Surface & Jet), 43 Keap, Brooklyn, N. Y.

Dean Bros. Steam Pump Works (Jet & Surface), Indianapolis, Ind.

**DEANE STEAM PUMP CO. (Jet),** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

Epping-Carpenter Co. (Surface & Jet), 41st & A. V. Ry., Pittsburg, Pa.

Eynon-Evans Mfg. Co., 1509 Clearfield, Philadelphia, Pa.

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Flynn, W. S., 76 Hudson, Jersey City, N. J.

**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)

Great Lakes Engineering Works (Twin Vertical Air Pump Condenser Combined, for Salt, Sugar & Chemical Works), Rivard & Detroit river, Detroit, Mich.

Hewes & Phillips Iron Works ("Venturi" Independent), Newark, N. J.

International Condenser Co. ("Colwell"), First Nat'l Bank bldg., Chicago, Ill.

**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

**KNOWLES STEAM PUMP WORKS** (Jet, Surface), B'way & Cedar, New York. (See adv. index & branch offices, end of book)

**LAIDLAW-DUNN-GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

McGowan, Jno. H. Co., Cincinnati, O.

Marshall Foundry Co., Pittsburg, Pa.

**MINNEAPOLIS STEEL & MACHIN**ery Co. ("Twin City"), Minneapolis, Minn. (See adv. index & branch offices, end of book)

Multicoil Co. (Marine Engine), 78 Broad, New York

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, Ohio

Nordberg Mfg. Co. (Independent, Jet & Surface), Milwaukee, Wis.

Orrville Pump & Furnace Co. ("Conkell"), Orrville, O.

Platt Iron Works Co. (Jet & Surface), Dayton, O.

Prescott, F. M. Steam Pump Co., West Allis, Wis.

Sauer Power Generating Co., Pittsburg, Pa.

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

Scranton Steam Pump Co. (Jet Condensers & Pumps), Scranton, Pa.

Southwark Foundry & Machine Co. ("Weiss"), Philadelphia, Pa.

**STEWART HEATER CO., 40 Nor**folk av, Buffalo, N. Y.

**THROPP'S, JOHN E. & SONS CO.** (Surface), ft of Lewis, Trenton, N. J. (See adv. index, end of book)

Triumph Ice Machine Co., Cincinnati, O.

**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

Unique Engineering Co., 100 Hinsdale, Brooklyn, N. Y.

Warren Steam Pump Co., Warren, Mass.

**WESTINGHOUSE MACHINE CO, Westing**house bldg., Pittsburg, Pa. (See adv. index, end of book)

Wheeler, C. H. Mfg. Co., Lehigh & N 18th, Phila., Pa.

**WHEELER CONDENSER & ENGI**neering Co. ("Wheeler" Admiralty Surface, Dry Tube, Rectangular, Jet & "Wheeler-Volz" Combined Condensers & Feed Water Heaters), Cartaret, N. J. (See adx. index & branch offices, end of book)

**WHITLOCK COIL PIPE CO., Hart**ford, Conn. (See adv. index, end of book)

Williamson Bros. Co. (Surface), Aramingo av & Cumberland, Phila., Pa.

Wilson Snyder Mfg. Co. (Independent, Jet, etc.), Pittsburg, Pa.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

**WORTHINGTON, HENRY F. (Jet,** Self-Cooling Surface), B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 2223—Condensers (Steam Turbine)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)

**WESTINGHOUSE MACHINE CO.** ("Leblanc Westinghouse"), Westinghouse bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## Condensers (Surface)

(See Condensers, Steam)

## 2224—Condensers (Telephone)

Andrae, Julius & Sons Co., Milwaukee, Wis.

Central Tel. & Electric Co., St. Louis, Mo.

Electric Appliance Co. ("X-P"), 701 W Jackson blvd, Chicago, Ill.

Electric Specialty Co. ("Mansbridge" Type), Cresco, Ia.

Kellogg Switchb'd & Supply Co., Chicago, Ill.

**LEEDS & NORTHRUP CO. (Precision** Standard), Stenton av, Gtn., Phila., Pa. (See adv. index, end of book)

Sterling Electric Co., Lafayette, Ind.

Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.

Swedish-American Telephone Co., 5235 E Ravenswood Park, Chicago, Ill.

Vote-Berger Co., La Crosse, Wis.

Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.

## 2225—Condensers (Tubular)

Baeuerle & Morris, 932 Front, Phila., Pa.

Lummus, Walter E. (Tubular & Coil), Boston, Mass.

Stokes, F. J. Machine Co., Phila., Pa.

## 2226—Condensers (Vapor)

Schutte & Koerting Co. ("Koerting"), 1251 N 12th, Phila., Pa.

## Condensing Apparatus (Stoneware)

(See Stoneware, Chemical)

## 2226a—Condensing Plants (Complete)

**WHEELER CONDENSER & ENGI**neering Co., Cartaret, N. J. (See adv. index & branch offices, end of book)

## 2227—Condensing Plants (Weiss Central)

Southwark Foundry & Machine Co., Passayunk Station, Phila., Pa.

## 2228—Conductor Pipe & Eave Trough Mfrs.

**AMERICAN ROLLING MILL CO.** ("Polygon"), Middletown, O. (See adv. index & branch offices, end of book)

Berger Bros. Co., 237 Arch, Phila., Pa.

**BERGER MFG. CO., THE (Steel),** Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)

Bigsby Mfg. Co., Cleveland, O.

**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)

**BURTON, W. J. CO., 161 W Congress,** Detroit, Mich. (See adv. index, end of

Cambridge Roofing Co., Cambridge, O. book)

**CANTON MFG. CO., CANTON, O. (See** Canton Mfg. Co., Canton, O.

adv. index, end of book)

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Casseus Mfg. Co. ("Casseus' Ideal" Eave Troughs), Edwardsville, Ill.
Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.
Clark-Smith Hardware Co., Peoria, Ill.
Conklin Tin Plate & Metal Co., Atlanta & Delphos Mfg. Co., Delphos, O. Savannah, Ga.
Dickelman Mfg. Co., Forest, O.
Dieckmann, Ferdinand, Cincinnati, O.
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. & 81 Fulton, New York. (See adv. index, end of book)
Eller Mfg. Co., Canton, O.
Empire Iron & Steel Co., Niles, O.
Excelsior Steel Furnace Co., 517 W Monroe, Chicago, Ill.
Fisher, W. Frank B., Springfield, O.
Garry Iron & Steel Co., Niles, O.
**GOFF, HORNER & CO., Ltd., (Corr**ugated, Plain Round, Square & Polygon Conductor Pipe & Lap & Slip Joint Eave Troughs), Offices, Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
**HUNGERFORD, U. T. BRASS & COP**per Co., 497 Pearl, New York
Hussey, C. G. & Co. (Copper Only), Pittsburg, Pa.
**HYNDMAN ROOFING CO., 318 E 2d,** Cincinnati, O. (See adv. index, end of book)
Indianapolis Corrugating Co., Indianapolis, Ind
Kanneberg Roofing & Ceiling Co., Canton, O.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
Lamb & Ritchie Co., Cambridgeport, Mass.
Learn & Brindle (Conductors Strainers, "The Ideal" Cut-Off), Columbus, O.
Lupton's, David Sons, E Allegheny av & Tulip, Phila., Pa.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Messenger & Parks Co., Aurora, Ill.
Meurer Bros. Co., 575 Flushing av, Brooklyn, N. Y.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Moeschl-Edwards Corrugating Co., Covington, Ky.
New Orleans Roofing & Metal Works, New Orleans, La.
New York Iron Roofing & Corrugating Co., 1st & Wash'n, Jersey City, N. J.
Niles Iron & Steel Roofing Co., Niles, O.
Obdyke, Benj. P., 1217 Callowhill, Phila., Pa.
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
Saginaw Sheet Metal Works, Saginaw, Mich.
St. John & Barquist, Des Moines, Ia.
**ST. PAUL ROOFING, CORNICE & OR**nament Co. ("Easy Bead"), St. Paul, Minn. (See adv. index, end of book)
Schoedinger, F. O., Columbus, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sheet Metal Mfg. Co., Niles, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Stone, Chas. O. & Co., Gardner, Mass.
Sykes Steel Roofing Co., 930 W 19th pl, Chicago, Ill.
Tennison Bros., Houston, Tex.
Tiffin Art Metal Co., Tiffin, O.
Twitchell Iron Co., Kansas City, Mo.
Valley Cornice & Slate Co. (Ltd.), 300 N Hamilton, Saginaw, W. S., Mich.
Weyand, Henry Co. (Inc.), Waterbury, Conn.
Wheeling Corrugating Co., Wheeling, W. Va.
Whitacre, J. E. Mfg. Co., Rockford, Ill.
York Corrugating Co., York, Pa.

## 2229—Conductors (Armored)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
National Metal Moulding Co. ("Flexsteel"), Pittsburg, Pa
Safety Armorite Conduit Co., Pittsburg, Pa.
Sprague Electric Co., 527 W 34th, New York
Standard Underground Cable Co., Pittsburg, Pa

## 2230—Conduit Elbow Former

Wallace Supply Co., 120 S Jefferson, Chicago, Ill

## 2231—Conduits (Cast Iron)

Davies & Thomas Co., Catasauqua, Pa.

## 2232— Conduits (Curb)

Marriott, Jas. C. ("Marriott." for Sanitary Gutter & Curb), 15 Park row, New York

## 2233—Conduits (Flexible Metallic)

Franklin Railway Supply Co. ("McLaughlin," for Connecting Between Engine & Tender in Place of Rubber Hose), Franklin, Pa.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)

## 2234— Conduits (Interior)

Alphaduct Co. (Non Metallic Flexible), Jersey City, N. J.
American Circular Loom Co. ("Electroduct," Flexible), Boston, Mass.
American Conduit Mfg. Co. ("Galvanite" Electro Galvanized, "American" Enameled, Wireduct" Non-Metallic Flexible), Pittsburg, Pa.
Central Tube Co., Pittsburg, Pa.
Clifton Mfg. Co., Jamaica Plain, Boston, Mass.
**CONTINENTAL FIBRE CO. (Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO. (Hard** Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Fibre),** Elsmere, Del. (See adv. index, end of book)
Eastern Flexible Conduit Co. ("Brook-Duct," Non-Metallic Flexible), 41 Gardner av, Brooklyn, N. Y.
Enameled Metals Co. ("Pittsburg," Standard Enameled Iron), Etna, Pa.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO.** ("J-M" Fibre), 100 William, New York. (See adv. index & branch offices, end of book)
Mark Mfg. Co. ("Navalite," Enameled Iron Pipe), Evanston, Ill.
National Fibre & Insulation Co. (Fibre), Yorklyn, Del.
National Metal Moulding Co. ("Sherarduct" & "Economy" Enameled Iron; also "Flexduct," Flexible), 1110 Fulton bldg, Pittsburg, Pa.
New York Metal Hose Co. (Flexible Metal), 42 B'way, New York
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Penn Yan Flexible Conduit Co., Penn Yan, N. Y.
Safety Armorite Conduit Co. ("Located," "Galvaduct," "Armorduct," "Sterling," Iron, Armored, Flexible Metallic, etc.), Pittsburg, Pa.
Sprague Electric Co. ("Greenfield" Iron Armored, Brass Armored, Flexible Steel & Unarmored), 527 W 34th, New York
Western Conduit & Mfg. Co. (Steel Electrical), 108 Lasalle, Chicago, Ill.
**WILMINGTON FIBRE SPECIALTY CO.** (Hard Fibre), Wilmington, Del. (See adv. index & branch offices, end of book)

## 2235—Conduits (Underground)

American Conduit Mfg. Co., Pittsburg, Pa.
American Conduit Co. (Bitumenized Fibre), East Chicago, Ind.
American Creosoting Works (Creosoted for Wood), New Orleans, La.
American Sewer Pipe Co. (Vitrified) Akron, O.
American Vitrified Conduit Co. (Vitrified), B'way & 23d, New York
Barnard, B. S. (Vitrified Clay), 50 Church, New York
Brazil Hollow Brick & Tile Co. ("Brazil," Vitrified), Brazil, Ind.
Camp, H. B. Co. ("Camp-Duct"), Pittsburg, Pa.
Chattanooga Sewer Pipe & Fire Brick Co. (Clay), Chattanooga, Tenn.
Chicago Stone Conduit Co., 138 Wash'n, Chicago, Ill.
Clay Product Co. (Vitrified Fire-Clay), Brazil, Ind.
Denny-Renton Clay & Coal Co. (Clay), Seattle, Wash.
Des Moines Clay Mfg. Co., Des Moines, Iowa
Dickey, W. S. Clay Mfg. Co. (Vitrified Salt Glazed), Kansas City, Mo.
Dielectric Co. of America ("Dielectric" System), Belleville, N. J.
Drummond, M. J. & Co. ("Shawmut" Vitrified), 182 B'way, New York
Eppinger & Russell Co. ("Valentine" Creosoted Square Box Conduit), 165 B'way, New York
Fibre Conduit Co. (Fibre), Orangeburg, N. Y.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Gest, G. M., 277 B'way, New York
Interstate Conduit & Brick Co. (Vitrified), Scranton, Pa.
**JOHNS, H. W.-MANVILLE CO.** ("J-M" Sectional), 100 William, New York. (See adv. index & branch offices, end of book)
Kettle River Co. (Creosoted), Minneapolis, Minn.
Los Angeles Pressed Brick Co. (Salt Glazed), Los Angeles, Cal.
McRoy Clay Works (Vitrified), Rookery, Chicago, Ill.; Works: Brazil, Ind.
Michigan Pipe Co. ("Bethell" Process of Creosoted Wood), Bay City, Mich.
Monolithic Conduit Co. (One-Piece Conduits), St. Louis, Mo.
Michigan Pipe Co. (Creosoted Wood), Bay City, Mich.
**NATIONAL FIRE PROOFING CO,** ("Mason," Terra Cotta), Pittsburg, Pa. (See adv. index & branch offices, end of book)
Norfolk Creosoting Co. (Creosoted Wood), Norfolk, Va.
Pittsburg Sewer Pipe & Conduit Co. (Vitrified Salt Glazed), Pittsburg, Kan.
Riter-Conley Mfg. Co. (Riveted Steel Pipe Lines of Large Diameters, Particularly for Hydro-Electric Installation), Pittsburg, Pa., & 111 B'way, New York
Rochester Sewer Pipe Co. (Vitrified Clay), Rochester, N. Y.
San Antonio Sewer Pipe Co., San Antonio, Tex.
Standard Sewer Pipe Co. ("Vitrified Clay), Rochester, N. Y.
Standard Vitrified Conduit Co. (Vitrified Salt Glazed), 39 Cortlandt, New York
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)
Walworth & Neville Mfg. Co. (Creosoted Pine), Heyworth bldg, Chicago, Ill., & Norfolk, Va.
Washington Pipe & Foundry Co. (Machine Banded Wooden Insulated Wire Conduits), Tacoma, Wash.
Wyckoff Pipe & Creosoting Co. (Creosoted Wood), 50 Church, New York. Works: Portsmouth, Va.

## Cones (Blacksmiths')

(See Mandrels or Cones, Blacksmiths)

## Cones (Friction)

(See Pulleys, Cone)

## 2236— Cones (Logging)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.

**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

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## 2237—Connections (Closet)

Atlas Brass Works ("Forster" Closet Waste), San Francisco, Cal.
Blasier, M. E. & Co., Utica, N. Y.
Climax Specialty Co., Ann Arbor, Mich.
Frost Mfg. Co., Kenosha, Wis.
National Hygienic Mfg. Co. (Brass, Ground Joint Connections), 24 S 7th, Phila., Pa.

## 2238— Connections (Hose)

Bridgman Bros. Co. ("Royle" Attachments), 1426 Wash'n av, Phila., Pa.

## 2239—Connections (Rubber)

Morgan & Wright (Inc.), Detroit, Mich.
Quaker City Rubber Co. (Closet, Ohliger, etc.), 629 Market, Phila., Pa.

## 2240—Connections (Siamese)

Milwaukee Brass Mfg. Co. (With Automatic Valve, for Fire Sprinklers, Stand Pipes, Bath, etc.), Milwaukee, Wis.
**SIMMONS, JOHN CO., 104 Centre,** New York (See adv. index, end of book)
Standard Brass & Iron Works ("S. B. & I. Works" Double, Threeway, etc.), Milwaukee, Wis.

## 2241—Connections (Slip Joint)

Wolverine Brass Works, Grand Rapids, Mich.

## 2242—Connections (Steamer)

Bridgman Bros. Co. ("Bridgman" for Automatic Sprinklers & Stand Pipes), 1426 Wash'n av, Phila., Pa.

## 2243—Connectors (Battery)

American Ever Ready Co. ("Bull Dog"), 308 Hudson, New York
Barcy & Nicholson, Detroit, Mich.
Bliss-Chester Co. ("Duplex"), Providence, R. I.
Eastern Carbon Works, Jersey City, N. J.
Electric Motor & Equipment Co., Newark, N. J.
Gasket Supply Co., 1729 Ludlow, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Lemke Electric Co. (Indestructible), Milwaukee, Wis.
Manhattan Electrical Supply Co. ("Mesco," "Sta-there"), 17 Park pl, New York
Monroe Electrical Mfg. Co., Monroe, Mich.
Stackpole Battery Co. ("Mills"), St. Marys, Pa.
Tregoning Elec. Mfg. Co. ("Lobster-Claw"), Cleveland, O.

## 2244—Connectors (Electric Train)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Loeffelholz Co. ("Gibbs"), Milwaukee, Wis.

## 2245—Connectors (Sleeve Wire)

Bryant Zinc Co. ("Premier"), 737 W Van Buren, Chicago, Ill.
Chicago Die & Machine Works ("Max Stadt"), 568 Fulton, Chicago, Ill.
Chicago Fuse Mfg. Co., 1014 W Congress, Chicago, Ill.
Clark Elec. & Mfg. Co., 149 B'way, New York
Cook, Frank B., 900 W Lake, Chicago, Ill.
Harvard Elec. Co., 525 W Van Buren, Chicago, Ill.
Holtzer-Cabot Elec. Co., Brookline, Mass.
McIntire, Chas. H., Newark, N. J.
National Telephone Supply Co., Cleveland, O.

## 2246— Connectors (Stage)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Scranton Button Co. (Electroid, Confined Line), Scranton, Pa.

## 2247—Connectors (Trailer)

(For Car Lighting)

Electric Specialty Co. ("Chicago"), 124 S Jefferson, Chicago, Ill.
Garton, W. R. Co., 617 W Jackson boul, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Lang, J. Electric Co., 423 N Lincoln, Chicago, Ill.

## 2248—Connectors (Trolley Wire)

Dossert & Co. ("Dossert" Solderless), 242 W 41st, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Ohio Brass Co. ("Emergency"), Mansfield, O.
Ridlon, Frank Co. ("Two-Way"), Boston, Mass.

## 2249— Connectors (Wire)

(Miscellaneous Wire Connectors)

American Cable Clip Co., 39 E 42d, New York
American Electric Fuse Co. ("American"), Muskegon, Mich.
Appleton Electric Co., 212 N Jefferson, Chicago, Ill.
Bliss-Chester Co. ("Duplex," Terminal), Providence, R. I.
Bunnell, J. H. & Co., Park pl. & Church, New York
Clark Electric & Mfg. Co., 149 B'way, N. Y.
Connecticut Elec. Mfg. Co., Bantam, Conn.
Fahnestock Electric Co. ("Fahnestock," Snap-over for Drop Wires), 129 Patchen av, Brooklyn, N. Y.
Fairmount Electric & Mfg. Co. ("H. W. W."), 2203 Market, Phila., Pa.
Fort Dearborn Mfg. Co. ("Zeno"), 1574 Crossing, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Harvard Elec. Co., 525 W Van Buren, Chicago, Ill.
Manhattan Electric Supply Co., 17 Park pl, New York
Monroe Electrical Mfg. Co., Monroe, Mich.
**MORSE, FRANK W. (Brass & Hard Rubber),** 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
Menchen, Jos. Electrical Co., 360 W 50th, New York
Nagel-Chase Mfg. Co., 141 W Ohio, Chicago, Ill.
Ostrander, W. R. & Co., 22 Dey, New York
Railway Specialty & Supply Co., Monadnock blk, Chicago, Ill.
Reliable Electric Co. ("Reliable"), 14 S Jefferson, Chicago, Ill.
Ridlon, Frank Co., Boston, Mass.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Sibley & Pitman ("Climax"), New York
**SMITH & HEMENWAY CO. ("Never Turn," Swedish" & "Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Tower-Binford Elec. & Mfg. Co., Richmond, Va.
Trumbull Electric Mfg. Co., Plainville, Conn.
Waterbury Mfg. Co., Waterbury, Conn.
Yonkers Specialty Co. ("New York"), Yonkers, N. Y.

## 2250—Connectors (Wire Test)

Appleton Electric Co., 212 N Jefferson, Chicago, Ill.
Belden Mfg. Co., 2316 S Western av, Chicago, Ill.
Chicago Brass Co. ("H. W. W."), 42 Madison, Chicago, Ill.
Cutter, Scott C., Oswego, Ill.
Fahnestock Electric Co. ("Snap Over"), 129 Patchen av, Brooklyn, N. Y.
Frankel Display Fixture Co., 177 Hudson, New York
Hallett Iron Works, 519 W Polk, Chicago, Ill.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Hubbard & Co. ("Pierce"), Pittsburg, Pa.
Kierulff, B. F. Jr. & Co. ("Wardman"), Los Angeles, Cal.
P. & M. Co., 98 Jackson blvd, Chicago, Ill.
Williams Test Clamp Co., Cleveland, O.
Yonkers Specialty Co. ("New York"), Yonkers, N. Y.

## 2251—Contract Blanks (Architects' & Builders')

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**SOLTMANN, E. G.** Publisher of the A. I. A. Uniform Contracts & Uniform Sub-Contracts), 134 W 29th, New York. (See adv. index, end of book)

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

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# 2252—Contractors (Asphalt Paving).

(See also Contractors, General)

## CALIFORNIA.

LOS ANGELES—Barber Asphalt Paving Co.
Densmore-Stabler Refining Co., 2474 E 9th
Fairchild-Gilmore-Wilton Co., Pacific Elec-
OAKLAND—Oakland Paving Co. tric bldg
Piedmont Paving Co.
SAN FRANCISCO—Barber Asphalt Paving Co.
Street, etc.), 7th & Hooper
City Street Improvement Co., Merchants' Exch bldg
Pioneer Asphaltum & Artificial Stone Pavement Co., 710 Montgomery

## COLORADO.

DENVER—Barber Asphalt Paving Co., Quincy bldg

## CONNECTICUT.

BRIDGEPORT—Bullard, W. S. Roofing & Contracting Co., 636 Water
Burns Co., 83 Fairfield & 400 Lindley
Silliman & Godfrey Co. (Street, etc.), 1119 Broad
BRISTOL—Pierson Engineering & Const. Co.
Watson, Alex., 283 Sheldon
NEW HAVEN—City Point Concrete Co.
Connecticut Concrete Co., 37 Church
Coyne Bros. Concrete Co., 250 Blatchley av
Humphrey, Jno., 33 Pine
Wartmann, Robert E., 22 Pond
WATERBURY—Byrne, C. R. A.
Excelsior Concrete Co., 59 Baldwin av
McGrath & Sons, 26 Magill

## DISTRICT OF COLUMBIA.

WASHINGTON—Colburn Bros., Colorado bldg
Cranford Paving Co.
Washington Asphalt Block & Tile Co., S Capitol & R, S E

## GEORGIA.

ATLANTA—Murphy, C. P. & Son, 6 N Forsyth
Southern Roofing Co. (Asphalt Floors)

## ILLINOIS.

AURORA—Salfisberg, J. E. & Co.
CHICAGO—Barber Asphalt Paving Co. (Street, etc.), 143 Dearborn
Blome, R. S., Unity bldg
Central Westrunite Co. ("Westrunite," Laid Cold), 279 Dearborn
Conway, R. F. Co. (Street, etc.), Chamber of Commerce bldg
Dolese Bros. Co., 78 Lasalle
Fulton, J. L. & Co., 98 Jackson blvd
Hoeffer & Co., Chamber of Commerce bldg
MacArthur Bros Co. (Street, etc.), Fisher bldg
Parker-Washington Co., Chamber of Com.
Perkins, E. B., 138 Washington bldg
Sackley, Jas. A. Co., Chamber of Com. bldg
Schillinger Bros. Co., 2322 N Seeley av
Simpson Construction Co. (Street, etc.), Chamber of Commerce bldg
Smith & Brown, 78 LaSalle
Wheeler, W. W. & Co., 715 W Washington
Witt, Aug., 909 S Western
PEORIA—Janssen, G. & Sons, 230 Dechman av

## INDIANA.

EVANSVILLE—Anchor Roofing & Paving Co.
FORT WAYNE—Fort Wayne Roofing & Paving Co.
INDIANAPOLIS—American Paving & Mfg. Co. ("Bitu-Mass")
Capitol Paving & Construction Co., 601 Traction Terminal bldg
Granite Bituminous Paving Co., American Central Life bldg
Hoosier Construction Co., American Central Life bldg
Smither, Henry C. Roofing & Sheet Metal Co., 330 S Penn
Symmes, H. H. Co., 45 Kentucky av
LAFAYETTE — Western Construction Co. (Street, etc.)

## IOWA.

DUBUQUE—Key City Roofing Co.
SIOUX CITY—Houx, C. T.

## KENTUCKY.

LOUISVILLE—American Standard Asphalt Co. (Street, etc.), 1st & A
Barber Asphalt Paving Co. (Street, etc.), 347 5th
National Roofing & Supply Co., 140 Main
Southern Roofing & Paving Co., 1006 W Main

## LOUISIANA.

NEW ORLEANS—Barber Asphalt Paving Co. (Street, etc.), 205 Chartres
Jahncke Navigation & Improvement Co. (Schillinger's), 816 Howard av
Sicilian Asphalt Paving & Construction Co., 312 Gravier

## MARYLAND.

BALTIMORE—Filbert Paving & Construction Co. (Street, etc.), 1210 Block
Thormann, Jno. H. & Co., 12 McClellan

## MASSACHUSETTS.

BOSTON—Boston Asphalt Co. (Street, etc.), 54 Kilby
Dolloff, C. W. & Co., 20 Central
Hind, Thos. J., 45 Commercial Wharf.
Jones & Meehan, 10 Tremont
Libby, A. A. Sons Co., 294 Washington
Murtfeldt, W. A. Co., 161 Devonshire
Simpson Bros.' Corporation, 166 Devonshire
Taylor, E. R. Co., 164 Federal
Warren Bros. (Street, etc.), 59 Temple pl
FALL RIVER—Archard, Richard J., 60 Murray
Burrows, Alexander, 1098 N Main
Williston, Chas. H., 171 Pleasant
LOWELL—Smith, E. A. & A. T.
TAUNTON—Black, Wm. R., 32 Union
WEST MEDFORD—Bragdon, Louis G.
WORCESTER—Carr, Geo. W. Co., 518 Main
Jenks, H. L. & Son, 405 Main

## MICHIGAN.

DETROIT—Scharf, R. W., 90 Linwood av.
Schillinger Bros. Co., Illinois & Dequintre

## MINNESOTA.

MINNEAPOLIS — Barber Asphalt Paving Co (Street, etc.)

## MISSOURI.

KANSAS CITY—Barber Asphalt Paving Co (Street, etc.), Colonial Security bldg
Middleton & Son Construction Co.
Parker-Washington Co., 2309 Penn av
ST. LOUIS—Barber Asphalt Paving Co.
El-Oso Asphalt Co., Victoria bldg
Fehlig Construction Co., Theresa & Hickory
Fruin-Bambrick Const. Co., Chemical bldg
Gilsonite Construction Co., Wainwright bldg
Granite Bituminous Paving Co., Pierce bldg
Heman Construction Co., 444 S Theresa
Hill-O'Meara Construction Co., Syndicate Trust bldg
Parker-Washington Const. Co., Wainwright bldg
Rowland, Jos. H. Granitoid Const. Co., 610 Chestnut
Trinidad Asphalt Mfg. Co., 444 S Theresa

## NEBRASKA.

OMAHA—Barber Asphalt Paving Co. (Street, Grant Paving Co. etc.), Bee bldg
Murphy, Hugh, Bee bldg
National Roofing Co., Ware blk

## NEW HAMPSHIRE.

MANCHESTER—Robie Consolidated Concrete
NASHUA—Nashua Concrete Co. Co., 939 Elm
Osgood Construction Co.
Tardif, F. X.

## NEW JERSEY.

ATLANTIC CITY—United Paving Co. (Bitulithic)
JERSEY CITY—Commonwealth Roofing Co., Grove c 19th
Uvalde Asphalt Paving Co., 2 Greene
MAURER—Barber Asphalt Paving Co. (Street etc.)
NEWARK—Barber Asphalt Paving Co. (Street etc.), 141 Halsey
Burnett Asphalt Roofing Co., 87 James
Commonwealth Roofing Co., 60 Alpine
Essex County Cons. Co., 128 Market
Hetzel, J. G. (Est. of) (Floors, etc.), 67 Main
Standard Paving Co., 45 Clinton

## NEW YORK.

BUFFALO—Barber Asphalt Co. (Street, etc.), 880 Ellicott sq
Burgard, Henry P. Co. (Street, etc.), 275 Lathrop
Crescent Pavement Co., Erie Co. B'k bldg
German Rock Asphalt & Cement Co. (Street, etc.), D. S. Morgan bldg
Gipp, L. H. Construction Co., Morgan bldg
Wisdom Paving Co., 198 Georgia
ELMIRA—Costello & Neagle
HASTINGS—Hastings Pavement Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Cranford Co., 52 9th
Eastern Bermudez Asphalt Paving Co., 26 Court
Mock, Isidor, 838 Flushing
Uvalde Asphalt Paving Co., Second av

### Boroughs of Manhattan & Bronx.

NEW YORK—Asphalt Construction Co., Madison av & 137th
Barber Asphalt Paving Co. (Street, etc.), 30 Church
Commonwealth Roofing Co. (Asphalt Floors & Watertight Cellars), 17 Battery pl
Continental Asphalt Paving Co. (Street, etc.), 79 Wall
Denton & Co., 42 E 23d
Hastings Pavement Co., 25 Broad
MacArthur Bros. Co., 11 Pine
Naughton Co., 299 B'way
Neuchatel Asphalt Co. (Ltd.), 265 B'way
New T. Construction Co., 520 W 29th
New Trinidad Lake Asphalt Co., 30 Church
†Sicilian Asphalt Paving Co. (Street, etc.), 41 Park row
Union Construction & Waterproofing Co., 1132 B'way
Uvalde Asphalt Co. (Street, etc.), 1 B'way
Vulcanite Paving Co., 1170 Broadway
Warren Bros. Co. (Street, etc.), 30 Church
Warner-Quinlan Asphalt Co. (Street, etc.), 79 Wall

### Borough of Queens.

LONG ISLAND CITY — Barber Asphalt Co. (Street, etc.), 6th & West av

**(End of New York City)**

PEEKSKILL—Smith, John, Jr.
ROCHESTER—Oliver, Horace T., 328 South av
Rochester Vulcanite Pavement Co., Alexander c Erie Canal
Rock Asphalt Pavement Co., 279 South av
Warren Chemical & Mfg. Co., 49 West av
SYRACUSE—Artificial Paving Co., 1101 N State
Central City Paving Co., Kirk bldg
Central City Roofing Co., Canal c Catharine
Talbott, Thos. & Son, 240 W Water
Warner-Quinlan Asphalt Co., 438 S Salina
TROY—Hannan, Geo., 306 3d
UTICA — Barber Asphalt Paving Co. (Street, etc.), 131 Broad
Commonwealth Roofing Co., Clarendon bldg
WATERTOWN—Jones, W. C., 22 Stone
Jones, W. C., 22 Stone
YONKERS—Pawson, J. E., ft Wells av

## OHIO.

CINCINNATI — Barber Asphalt Paving Co. (Street, etc.), First Nat'l B'k bldg
Kuhl, Chas. Artificial Stone Co., 601 Hunt
Maescher, Chas. V. & Co., 617 Hunt
CLEVELAND—Byerly & Sons, 2484 West 4th
Clements Bros. Const. Co., 5401 Euclid
Cleveland Trinidad Paving Co. (Street, etc.), 420 Lakeside av, N E
Roehle Bros., United Bank bldg
COLUMBUS—Acme Paving Co., 403 W State
Pugh, Andrew G., Union Nat'l B'k bldg
DAYTON—Conley, Jas. E., Conover bldg
Dayton Asphalt Roofing & Paving Co., 16
DELAWARE—Lambert Bros. & Wirt S Canal
HAMILTON—Andrews Asphalt Paving Co.
TOLEDO—Schillinger Bros. Co., 215 City Park
YOUNGSTOWN—Chambers & Heasley av
Davis, E. J. Sons
Joyce, Jas. S.

## OKLAHOMA

OKLAHOMA — Barber Asphalt Paving Co. (Street, etc.), Box 966

## OREGON.

PORTLAND—Marshall Bros., Chamber of Commerce bldg
Warren Construction Co., Beck bldg

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### PENNSYLVANIA.

ERIE—Cement Products Co.
Doyle, J. & M.
Mayer Bros.
HARRISBURG—Galbraith, B. G.
LANCASTER—Fritchey, J. U. & Son
Lancaster Cement Paving Co.
PHILADELPHIA—Barber Asphalt Paving Co. (Street, etc.), Land Title bldg
Block & Tile Paving Co., Harrison bldg
Drehmann Paving Co., 2631 Parrish
Filbert Paving & Const. Co., Penna bldg
Galbraith Paving Co., 3732 Old York rd
Petrific Paving & Roofing Co., 3345 Market
Quaker City Paving Co., 45 N 13th
Schwartz, Jacob, 2308 N 27th
Shields, W. S. P., Asphalt Co., Witherspoon bldg
Vulcanite Paving Co., Land Title bldg
Wallace, R. Bruce & Co., Drexel bldg
PITTSBURG—Atlas Concrete Co., 309 4th av
Booth & Flinn, 1942 Forbes
Globe Asphalt Co. ("Obispo Brand"), Bakewell bldg
Peabody, George L., 6812 Hamilton av
Wadsworth Stone & Paving Co., Bessemer bldg
SCRANTON—Barber Asphalt Paving Co.
Dunn, Benjamin F. (Street, etc.)

### RHODE ISLAND.

PROVIDENCE—Narragansett Improvement Co. (Street, etc.), 122 Public
WESTERLY—Westerly Concrete Co.

### TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foundry Co., 720 E Montgomery av
MEMPHIS—Bartholomew Roofing Co., 164 S. 2d
Memphis Asphalt & Paving Co. (Street, etc.)
Miller, Chas. R. Co., 8 N Front
Miller Paving Co., 649 Beale av
NASHVILLE—Nashville Roofing & Paving Co.

### TEXAS.

CLINE—Uvalde Asphalt Co.
DALLAS—Barber Asphalt Paving Co. (Street, etc.)

### UTAH.

OGDEN—Parry, Jos., 1743 W Wash'n av
SALT LAKE CITY—Barber Asphalt Paving Co. (Street, etc.)

### VERMONT.

BURLINGTON—Moore, Eugene F., 63 Greene

### VIRGINIA.

RICHMOND—Armitage Mfg. Co.
Veitch, W. P.

### WASHINGTON.

SEATTLE—Barber Asphalt Paving Co. (Street, etc.), Mutual Life bldg
Barnes, M. A. & Son
Stanley, John L.
SPOKANE—Barber Asphalt Paving Co. (Street, etc.)
TACOMA—Barber Asphalt Paving Co.
Independent Asphalt Paving Co.

### WEST VIRGINIA.

WHEELING—McGinley & Holmes

### WISCONSIN.

LA CROSSE—Marden, J. H.
MILWAUKEE—Monsted, A. & Co., Pabst bldg
Winding & Gezelschap, Pabst bldg
OSHKOSH—Fluor Bros. Const. Co.
SHEBOYGAN—Ackerman, Christ. & Sons

## Contractors (Building)

**(See Builders, Contracting; also Contractors, General)**

## 2252a—Contractors (Docks, Bulkheads, Foundations)

**RAYMOND CONCRETE PILE CO., 140** Cedar, New York (See adv. index and branch offices, end of book).

## 2253—Contractors (Dredging)

### ALABAMA.

MOBILE—Alabama Dredging & Jetty Co.
Home Dredging Co.
Moore, R. & Co.
National Dredging Co.
Southern Dredging Co.

### CALIFORNIA.

LOS ANGELES—Empire Construction Co.
OAKLAND—Veitch, W. T. & Bro.
SAN FRANCISCO—American Dredging Co., 6 East
Atlantic Gulf & Pacific Co., Monadnock bldg
Bay & River Dredging Co., 604 Mission
Healey, Tibbetts Construction Co.
North American Dredging Co., Merchants' Exch bldg
Pacific Coast Dredging & Reclamation Co.
San Francisco Bridge Co., Monadnock bldg
Standard American Dredging Co.
U. S. Dredging Co., 237 1st

### COLORADO.

DENVER — STEWART, JAS. & CO., Century bldg

### CONNECTICUT.

NEW LONDON—Scott, Thomas A. Co.

### DELAWARE.

WILMINGTON—National Dredging Co., 6 W 9th
Standard Dredging Co.
Wilmington Dredging Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Columbia National Sand Dredging Co., 3036 K. N W
Potomac Dredging Co.

### FLORIDA.

TAMPA—Hillsboro Dredging Co.

### GEORGIA.

SAVANNAH—Cunningham, W., Sorrel bldg
Georgia Dredging Co., German Bank bldg
Ross, P. Sanford, 16 Bryan, E

### ILLINOIS.

CHAMPAIGN—Pollard, Goff & Co. (Inc.)
CHICAGO—Fitzsimmons & Connell Co., 131 La Salle
Great Lakes Dredge & Dock Co., Chamber of Commerce bldg
STEWART, JAS. & CO., Fisher bldg
PITTSFIELD—Wills, A. V. & Sons
ROCK ISLAND—Davis, T. B.

### INDIANA.

LAFAYETTE—Horton & Moseley
MADISON—Kirk, Wm.
RENSSELAER—Yeoman, D. H.
TERRE HAUTE—Wabash Dredging & Const. Co.

### LOUISIANA.

NEW ORLEANS—Jahncke Navigation & Improvement Co., 816 Howard av
STEWART, JAS. & CO., Hibernia Bank bldg

### MAINE.

PORTLAND—Eastern Dredging Co., 50 Exchange

### MARYLAND.

BALTIMORE—Furst-Clark Dredging Co.
Maryland Dredging & Contracting Co.
McLean Contracting Co., Maryland Trust bldg
Risley Co., Bush c Severn
Sanford & Brooks, 24 Commerce

### MASSACHUSETTS.

BOSTON—Bay State Dredging Co., 185 Summer
Breymann, G. H. & Bro., E. B.
Eastern Dredging Co., 247 Atlantic av
Letteney, John H., 101 Tremont
Townsend, Geo. W., 202 Atlantic av

### MICHIGAN.

BENTON HARBOR—Bakeman, Geo. F.
Mills, G. A., & Son.
DETROIT—Detroit Dredging Co.
Dunbar & Sullivan Dredging Co.
Great Lakes Dredge & Dock Co.
Griffin, M. J., 169 Stanton av
Schweikart Dredging Co., 1922 Jefferson av
HOUGHTON—Pryor, Jas., & Son.
PORT HURON — Muir-O'Sullivan Dredge & Dock Co.
SAGINAW — Hubbell, H. W. & Co., 700 N Hamilton
SAULT SAINTE MARIE—Edwards Bros. Dredge Co.
Great Lakes Dredge & Dock Co.
Hickler Bros.

### MINNESOTA.

DULUTH—Drake & Stratton Co.
Duluth-Superior Dredging Co.
Great Lakes Dredge & Dock Co.
Northern Dredge & Dock Co.
Zenith Dredge Co.
ST. PAUL—Butler Bros., New York Life bldg

### MISSOURI.

ST. LOUIS—Rust, Swift & Co.
STEWART, JAS. & CO., New Nat'l Bank of Commerce bldg

### NEW JERSEY.

ATLANTIC CITY—Risley, N. & Sons (Venture)
BAYONNE—Packard, R. G. Co., ft 28th
CAMDEN—Am. Dredging Co., ft Pine
Bowers Hydraulic Dredging Co. (Inc.), 104 Penna, Dredging Co. Market
JERSEY CITY—McSpirit, Joseph A., 118 Wayne
Ross, P. Sanford, 277 Wash'n
Stillman, F. M. Co., 26 Exchange pl
U. S. Dredging & Cons. Co., 1 Montgomery
PATERSON—Lee, John R., 2d Nat'l B'k bldg

### NEW YORK.

BUFFALO—Buffalo Dredging Co., D. S. Morgan bldg
Chapman, A. F. & Co., Buffalo, N. Y.
Lake Erie Dredging Co., D. S. Morgan bldg

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Beard, W. H. Dredging Co., Long Dock, Erie Basin
Gahagan, Walter H., 189 Montague

#### Boroughs of Manhattan & Bronx.

NEW YORK—Atlantic Dredging Co., 15 Whitehall
Atlantic Gulf & Pacific Co., Park Row bldg
Beard, W. H. Dredging Co., 21 State
Columbia Dredging Co., 68 Broad
Du Bois Bros. Dredging Co., 19 Whitehall
Du Bois, Henry, Sons' Co., 17 State
Empire Eng. Corporation, 71 B'way
Hayward, C., 50 Church
International Contracting Co., 17 Battery pl
Interstate Dredging Co., 17 Battery pl
Metropolitan Dredging Co., 15 Broad
Monks, John & Sons, 82 Beaver
Morris & Cumings Dredging Co., 17 State
North American Dredging Co., 15 Park row
Packard, R. G. Co., 130 Pearl
Seely-Taylor Co., 78 Broad
Spearin & Preston, 90 West
Steers, Henry (Inc.), 17 Battery pl
STEWART, JAS. & CO., 30 Church
Taylor Dredging Co., 21 State

**(End of New York City)**

OGDENSBURG—Daly & Hannan Dredging Co.
ROCHESTER—Brayer & Albaugh, 27 E Main

### OHIO.

BLOOMVILLE—France Dredging & Const. Co.
CINCINNATI—Sheridan-Kirk Contract Co.
Strack, Thomas P., Goodall Bldg.
CLEVELAND—American Construction Co., Rockefeller bldg
Central Dredging Co., Commercial B'k bldg
Great Lakes Dredge & Dock Co., Williamson bldg
Standard Contracting Co., Wade bldg
Strong, C. H. & Son, Cuyahoga bldg
TOLEDO—Bodette, Edward, 704 Boalt
Breymann, Geo. H. & Bros., Marine bldg
Great Lakes Dredge & Dock Co., The
Sheehan, Jas. S. (Roads, etc.) Spitzer
Thacher, A. Q. & Co., Marine bldg

### OREGON.

PORTLAND—Columbia Digger Co., Sherlock bldg

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## PENNSYLVANIA.

**CHESTER—Williams, Capt. Jno.**
**PHILADELPHIA — American Dredging Co., Mariner & Merchant bldg**
Atlantic Dredging Co., Girard Trust bldg
**Drake & Stratton Co., Penna bldg.**
Fouder, Edward F. Co., Land Title bldg
Rickards Dredging Co., Girard bldg
**National Dredging & Lighterage Co., Arcade bldg**
**River & Harbor Improvement Co., Mariner & Merchant bldg**
**PITTSBURG—Enterprise Contracting Co., Fulton bldg**
**Monongahela & Western Dredging Co., Conestoga bldg**
**Pittsburg Dredging & Construction Co., Hartje bldg**
**STEWART, JAS. & CO., Oliver bldg**

## RHODE ISLAND.

PROVIDENCE—Packard, J. S. Dredging Co., 31 Market sq
Shaw, Fred'k E., 75 Westminster

## TENNESSEE.

MEMPHIS—Kavanaugh Sand Co., 20 Madison

## TEXAS.

GALVESTON—American Dredging Co.
Bowers Southern Dredging Co.
Clarke, Charles & Co.
Gaylord, L. T.
HOUSTON—Arpin, J. B. Dredging Co.

## VIRGINIA.

BERKLEY—French, William H.
NORFOLK—Coastwise Dredging Co.
Norfolk Dredging Co., 217 Water
Sanford & Brooks Co.
PORTSMOUTH—Cross, E. & Son Co.

## WASHINGTON.

**SEATTLE — International Contract Co. New York blk**
**Puget Sound Bridge & Dredging Co. (Hydraulic), 95 Yesler Way**
TACOMA—Northwest Bridge Co., **California bldg**
**Tacoma Dredging Co., California bldg**

## WISCONSIN.

MILWAUKEE—Hathaway, J. E. & Co., **Canal & 1st av**
**Lake Michigan Dredge & Dock Co., 204 Grand av**
Starke, C. H. Dredge & Dock Co., Canal & Menomonie
OCONOMOWOC—Johnson & Tweeden
MONITOWOC—Great Lakes Dredge & Dock Co.
SUPERIOR—Whitney Bros.
TWO RIVERS—Two Rivers Dredge & Dock Co.

# Contractors (Electric Railway)

(See Names in Contractors, General, Marked with a (†) Dagger)

# 2254—Contractors (Electric Subway)

**Commercial Construction Co., 114 E 28th, New York**
**Crosby, C. H. Co., 170 Summer, Boston, Mass.**
**Kohler Bros., Fisher bldg, Chicago, Ill.**
**National Conduit & Cable Co., Times bldg, New York**
Regan, D. P., 4402 Chestnut, Phila., Pa.
**Saxton, E., 841 Bladensburg rd, Washington, D. C.**
**Union Electric Construction Co., Bourse bldg. Phila., Pa.**
**United Engineering & Contracting Co., 32 E 33d, New York**

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

# 2252—Contractors (General)

(This list includes General Contractors in all towns with a population of over 5,000)

(See also Contractors, Builders)

(Star (*) indicates Railroad Contractors. Dagger (†) indicates Electric Railway Contractors)

## ALABAMA.

BESSEMER—O'Gara & McPolland (Street &
BIRMINGHAM—*Brewer & Jones Public)
Bynum, B. C. Construction Co.
Evans Bros. Construction Co. (General),
Jefferson Brick Supply Co. 2231 1st av
McCarten Contracting Co. (Street & Public)
Stockmar, Henry A., 2200 Avenue A
Thompson, T. C. & Bros. (Bldrs. & General), Title Guarantee bldg
Vauce Contracting Co.
FLORENCE—Angel, J. H. (Street, etc.)
MOBILE—**Blair, Algernon**
Interstate Construction Co.
Jett Bros. Contracting Co.
MONTGOMERY—Cook & Laurie Contracting
Hugger Bros. Co.
Pruett, O. J. (Roads, etc.)
Stough, J. F. (Roads, etc.)

## ARKANSAS.

FORT SMITH—Burke-Condin Co.
Burke Bros.
LITTLE ROCK—Dresbach Bros.
Gray, C. L. Const. Co.
McCoppin, Jos. (Sewer, etc.)

## CALIFORNIA.

ALAMEDA—Powell Bros. Construction Co. (Bldrs. & General)
BAKERSFIELD—Glass & Fischer (Sewer, etc.)
BERKELEY—Contra Costa Const. Co. (Grad-
Esterly Const. Co. (Grading, etc.) ing, etc.)
FRESNO—Warswick Street Paving Co.
GRASS VALLEY—Body Bros.
LOS ANGELES—Alpeter, Hall & Alpeter (Gen-
Atkinson, J. F. (General) eral), Henne bldg
Bent, Arthur S. (Eng. & Cont.)
**Connor & McCann**
**Duff, Hugh T.**
**Engstrum, F. O. Co. (General)**
**Fairchild-Gilmore-Wilton Co. (Paving, etc.)**
***Grant, Alex**
**Hall Construction Co. (Grading, Excavating, Sewer, etc.), H. W. Hellman bldg**
**Kubach, C. J. Co.**
**Leonardt, Carl**
OAKLAND—Cotton Bros. & Co. **(Bridge & Public)**
**Hutchinson Co. (Paving, etc.), 401 14th**
**Ransome-Crummey Co.**
**Stone, E. B. & A. L. Co. (General)**
Veitch, W. T. & Bro.
SACRAMENTO — Schaw-Batcher Co. (Public
Siller Bros. Work)
SAN DIEGO—Shattuck-Edinger Co. (Engrs. & Contrs.)
SAN FRANCISCO—Anderson, W. W., **Monadnock bldg**
**Atlantic Gulf & Pacific Co. (Engineers & General), Monadnock bldg**
**Atlas Grading & Construction Co. (Grading), 95 Market**
**Bay & River Dredging Co. (Dredging), 24 California**
Blanchard Brown Co., 1435 48th av
Butler, Thos., Custom House
Butterworth Co., 850 Treat av
Button, I. V., 533 14th
Campbell, Jas. (General), Chronicle bldg
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Coast States Construction Co., 503 Market
Colusa Sandstone Co., Division & Potrero av
Concanon, Wm. N. Co., Monadnock bldg
Condon, McGlyn Co. (The), 789 Mission
Consani, A., 137 Wood
Cotton Bros. & Co., 343 5th
Days, Thos. H., & Sons, Monadnock bldg
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Demattei, L., & Co. (Grading), 8 Avery
Dibert, L. C., Co., 400 7th
Diver & Lewis, 24 Oak Grove av.
Dowling, J. A., Russ bldg
Downey, John, 229 Natoma
Dreyfus Bros., 339 Montgomery
Empire Construction Co., 333 Grant av
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Fay, Stanley J., Mutual Sav. Bk. bldg
Fennell, Martin M., 68 Post
Ford & Mallott, Mareposa & Iowa
Finch, Chas. M., Monadnock bldg
Fisher, M., Co., Pacific bldg
Franks, J. C. (Dredging), Phelan bldg
Gale, M. F., & Son., 185 Stevenson
Gartland, P. J., 74 Spencer
Gnecco, M., & Co., 36 Wood
Gompertz, Chas. W., 120 Bush
Greely, Jno. (Grading), 326 8th av
Gutleben Bros., Monadnock bldg
Hageman Contracting Co., 4th & Illinois
Hannah, J. D., Monadnock bldg
Harney, C. S., 3619 18th
Harney, J. G. (Street), Pacific bldg
Healy-Tibbitts Construction Co. (Excavating, Fireproof Construction, etc.), 268 Market
**Helbing, Wm., 1420 Market**
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Klyce, Harvey A., Monadnock bldg
Land & Nugent, 2165 Market
*Layden, Darby (Bridge & Dock, Sewer, etc.), 219 Stewart
Lennon, J. E., 362 Church
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McCullogh Contracting Co., Pacific bldg
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McHugh, Peter J. (Street), 3908 Clay
McKay, Jno. H., 3499 Sacramento
McKillican Bros., 338 Pine
McLaughlin & Walsh, Brickel bldg
McLellan, E. W., & Co., 1038 Polk
McPhee Co. (Stone & General), 16th & Mahony
**Bros., Crocker bldg Carolina**
Marion Steam Shovel Co., Monadnock bldg
Masow & Morrison Monadnock bldg
Mensch, L. J., 42 Market
Miller, George E. Contracting Co. (Inc.), 710 Montgomery
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O'Brien, J. J. Construction Co., 15 2d
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**O'Day, Daniel Co., 98 Belcher**
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San Francisco Teaming Co., 500 Hampshire
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Simmie, T. W., Co., 1768 15th
Smith, Rice & Co. (Riggers & Contractors), 118 Howard
Summit Construction Co., Kohl bldg
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Union Construction Co., Union Trust bldg
Unitel States Dredging Co. (Dredging), 237
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Wright, J. H. Co., 3108 Buchanan
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*Calumet Construction Co., 234 La Salle
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Spoul, E. W. Co., 108 Lasalle salle
Standard Concrete Cons. Co., 184 La Salle
Standard Cons. Co. (Engineers & Contractors), First National Bank bldg
Stebbings, W. L. (Steam & Electric Railways, Location & Construction, Bridges, Trestles, Freight & Passenger Stations, Coaling Stations, Round Houses, etc.), 98 Jackson blvd
Stevens Construction Co., Atwood bldg
**STEWART, JAS. & CO. (Harbor,** Marine & Heavy Buildings), Fisher bldg
Stone & Green, 98 Jackson boul
Strandberg, E. P., & Co., 108 La Salle
Stresenreuter Bros., 138 Washington
**STROBEL STEEL CONSTRUCTION** Co. (Steel Structures, etc.), Monadnock blk
Stubbs, J. E. Contracting Co., 440 Orleans
Suspension Steel Concrete Co., 277 Dearborn
Swift, Geo. B. Co. (Builders), 188 Madison
Thompson-Starrett Co. (Building Construction), 279 Dearborn
Todd, J. & Co. (Masonry & Public), 145 La-
Tredwell Const. Co., 115 Adams salle
Tubbs, Nathan, 21 Quincy
United Construction Co., 98 Jackson blvd
Union Engineering & Construction Co. (Engineers & Construction), 164 Dearborn
Union Paving Co., 184 Lasalle
Van Deventer & Rider Co., 123 Lasalle
Vaughan Co., 145 Lasalle
Volkmann, Chas. & Co., 184 Dearborn
Waful & Deuchler, 204 Dearborn
Walsh & Masterson, 95 S Clark
Walther & Meyne, 84 Lasalle
Warner Construction Co., 112 Clark
Warren Construction Co., 61 E North av Bl
Washington Construction Co., 84 La Salle
Warwick Construction Co. (For all Classes of Fire Brick Work), 326 Dearborn
Watson, R. B. Co., 303 Dearborn
Weber Chimney Co. (Sewer & General Concrete Work), 209 State
Western Constr. Co., 4545 Armitage
Western Indiana Constr. Co., 6 Sherman
Wells Bros. Co., 98 Jackson blvd
†**WESTINGHOUSE ELECTRIC &** Mfg. Co. (Electric Power Installation). **(See adv. index, end of book)**
White, Nicholas F. (Excavating, Grading, etc.), 2832 Millard av
White, Thos. M. (Excavating, etc.), 2314 S Robey
Wilson, A. & S. Co., 08 Jackson boul
Wilson & Wyld, 140 Dearborn
†Wise, Clift, 315 Dearborn
Witherspoon-Englar Co., Monadnock blk
Wolfinger, Clarence I., 78 La Salle
Youger & Co., 138 Washington
Zadeck, B. M. Co., 135 Adams
DANVILLE—Interurban Construction Co.
DECATUR—Koons & Riney (Excavating, etc.)
EAST ST. LOUIS—Dunlap, O. T. (Bldrs. & Gray, C. L. Construction Co. General)
Hall, Howard H.
Keeley, John & Patrick (Paving, Concrete, Murphy Construction Co. etc.)
Rich, Louis
ELGIN—Juby Bros.
Logan & Geritz
EVANSTON—Dupree, Christian
Falcon, Joseph G.
Wigginton, James (Sewer, Paving & Public Work)
FREEPORT—Ascher, William (Paving, Macadam, etc.)
Shons, Wm. H. (Stone, Concrete Bridges etc.)
GALESBURG—McAuley, J. B. (Paving, Sewer. Munson, P. O. etc.)
Schwartz & Son (Bridges, Concrete, tc.)
GENEVA—Wheeler, Jno. Construction Co. (Works of All Kinds)
JACKSONVILLE—Cherry, John & Son (Paving & Sewer)
JOLIET—Bloomington & Joliet Construction
Tunny, William Co.
KANKAKEE—McAndrews, John
McLaughlin-Mateer Co.
KEWANEE—Neville, W. A. (Large)
LA SALLE—Keys & McNamara (Public Work)
MATTOON—Breese & Brown (Bridges, etc.)
MOLINE—Heaps, Clarence E. (Bldr. & Gen'l)
Lundale Bros. Fuel Construction Co.
Peterson, Peter (Bldr. & General)
Pierce & Lundquist
MONMOUTH—Cochran, A. N.
MURPHYSBORO—Carine, J. E. (Sewer, etc.)
OAK PARK—Goelitz, Henry G.
OTTAWA—Dougherty, J. M. (Sewer)
PEKIN—Zimmer, E. & Co.
PEORIA—Allen, J. S.
Allen, W. M. Son & Co.
Miller, Joseph & Sons
Siefert, Fred'k (Sewer, etc.)
Tremont Bridge & Contract Co. (Concrete
QUINCY—Brinks, Henry & Sons Work)
Buerkin & Koempen (Bldrs. & General
Clough Concrete Construction Co. (Concrete & Bridge Construction)
Dieker, G. H. & Sons
Ebert & Shanahan (Railroad & Paving)
Menke, F. W. Stone & Lime Co.
ROCKFORD—General Engineering & Construction Co. (Concrete & General)
Maffioli, G.
Nelson & Nutirner (Excavating)
Rockford Concrete Construction Co. (Reinforced Concrete Work)
Rutledge, A. E. & Co.
Stowell, C. C. (Reinforced Concrete Work)
ROCK ISLAND—Collins Bros. (Bldrs. & General)
Horst, Henry W. (Bldr. & General)
Hudson & Collins (Bldrs. & General)
McConochie, William & Son (Bldrs. & Heavy Masonry, etc.)
Ranson & Ackinson
Volk, John, & Co. (Bldrs. & General)
Whitney, Andrew J. (River & Harbor)
ST. ELMO—*Johnson, P. M. & Co. (Railroad etc.)
SPRINGFIELD—Bretz, John E. (Sewer & Paving)
Culver Construction Co. (Masonry, Stone &
Springfield Construction Co. Granite)
United States Construction Co.
Wineteer, Chas. G.
WAUKEGAN—Lanyon & Clifford
WILMETTE—Davidson, Wm.

## INDIANA.

ALEXANDRIA—Sullivan, Mason & Sullivan
ANDERSON—Daniels, C. H. (Paving & Public)
Kelly, Thos. P.
Lyst, Edward E. (Cementing & Paving)
Madison Construction Co.
BRAZIL—Cutshall & Flagg
Smith, Edward W.
BROOKSTON—Vanatta, John C.
CLAY CITY—*Norton & Shamoecker (R. R.
COLUMBUS—Caldwell & Drake etc.)
Dunlap & Co.
Folger, C. W. & Co.
Gilbert, A. H. (Cement)
McCormick, P. H. & Co. (Large)
Schoonover, Henry A.
Stillinger & Lee
CONNERSVILLE—Emsweiler & Jackson
CRAWFORDSVILLE—Bishop, Jas. M.
Carr, W. C. & Son
Harding & Slattery
Hulett, Wm.
Noland & Slattery
DELPH—O'Connor, J. C. (Macadam Roads)
Pierce, Jas. M. Macadam Co. (Macadam
ELWOOD—Digel, S. H. (Large) Roads)
EVANSVILLE—Anderson & Veatch
Bedford & Nugent (General)
Grammer & Smith (Heavy Mill Work, etc.)
Hollerbach & May Contract Co. (River
Kanzler, Christ & Son Harbor, etc.)
Miller, Geo. L. (General)
Ohio River Contract Co. (River)
Reichart, Louis (Paving, etc.)
Scarborough-Davies Co.
Stinchfield & Reichert (Paving)
Whitehead, Bennett (Bridge & Road)
FORT WAYNE—Beers, Geo. W.
Derheimer, Jos. & Co. (Sewer & Public)
Fort Wayne Roofing & Paving Co. (Paving
Moellering Construction Co. etc.)
Olds, C. L. Construction Co. (Public Work)
Western Engineering & Contracting Co.
Western Gas Construction Co. (Gas Works,
Wayne General Construction Co. etc.
FRANKFORT—Frankford Construction Co.
Good & Lee (Paving, etc.)
Jenkins & Hines (Roads, etc.)
Kelleher & Slipher
Ross, John A. (General)
GOODLAND—Alter, Lewis S. (Engr. & Contr.)
GOSHEN—Hatch, W. D. & Sons Co. (Paving & Public)
Triad Engineering & Construction Co.
GREENFIELD—Boots & Grant
Kirkpatrick, C. M. (Paving & Public
GREENSBURG—*Pulse & Porter
HUNTINGTON—Keefer & Bailey (R. R. & Shutt, L. A. Street)
INDIANAPOLIS—American Construction Co., 1201 E Georgia
*American Engineering Co., Traction Terminal bldg
Bender, Conrad (General), Builders Ex
Bossert, William (Sewer & Street), 216 W
Brandt Bros. Builders' Ex 11th
Bruner, A. & Co., 742 N New Jersey
Caldwell, Marion, 1177 E Maryland
Capitol Paving & Construction Co. (Paving, etc.), Traction Terminal bldg
*Carter Construction Co., Traction Terminal bldg
Cochrane, S. W. & Son, Builders Ex
Cornelius, Henry D. (Sewer),2914 Calvelage
Cotton, Madison M., Builders Exchange
Dollman, Henry L., Lemcke bldg
Elliott, Joel T., Lemcke bldg
Fife, Geo. W. (Bridges, Dams, etc.), Saks bldg
Halstead, Wm. C. & Co., 506 Indiana Pythian bldg
Hardacre, N. B. & Son, 2024 Yardles
Hoosier Construction Co. (Public Work), American Central Life bldg
Hoss, John L., 2323 Kenwood av
Jose-Balz Co., 2000 Spann av
Jungclaus, W. P. Co. (Gen'l), 827 Mass. av
Keller, Julius Construction Co. (Inc.) (Sewer & Municipal), 1100 E Maryland
Kottlowski, E. F. Co., 1113 Olive
Lackey, F. E. (Street, etc.), 3003 Macpherson av
McCray, George W. (Street), 2137 N Senate
McCollum, Wm. M., 743 E Terrace av
Marion County Const. Co., 1600 S West
Markey, Thos. & Son (Sewer & Street) 1042 S New Jersey
Meid, Frank, Builders' Exchnage
Milliken, Isaac W., Law bldg
Millikan, Lynn B., State Life bldg
Moore, W. F., 2103 N. Capitol av
*†Moore-Mansfield Co. (Inc.) Railroad, Sewers, Watworks & Pavements; Heavy Concrete & Stone Masonry, etc.), Board of Trade bldg
Munroe, J. R. & Co., 2648 Northwestern av
Neisler, Arthur L., 2150 Bellefontaine
Nuerge Chas. & Co., 1224 Springdale av
Ostermeier, Wm. H., Builders' Ex.
Pease-Buzatt Construction Co. (Paving), Board of Trade bldg
Pierson, J. C. & Son (General), 230 E Ohio
Reinking, Henry E. & Son, 1034 E Market
Schumacher, John A. Co., 820 E St. Clair
Scrimsher, J. W. & Co., Builders' Ex
Sedvert, Henry W., Lemcke bldg
Sells, Corbin P. (General), 1901 Talbot av
Shover, J. E. 1225 Hudson
Shover, Oran D. (Paving, Sewer, etc.), 534 E Washington
Smock, F. C., Lemcke bldg
Tripp Bros. (General), c E Ohio & C C C & St L Ry
Von Spreckelson, Albert, 1200 E North
Weyenberg, Peter C. (General), 1101 W New York
Wolf & Ewing (General), Lemcke bldg
*Yawger, A. J. Co., Claypool bldg
JASPER—Traylor Edgar Construction Co.
KOKOMO—Dixon, W. J.
Moore & Danner (Bldrs. & General)
Watson, J. H.
LAFAYETTE—Brown, G. S.
Evans Bros.
Frey, W. F. & J. C.
Kessener, Henry J. (General)
Seuse Bros. Co.
Stillwell, William F.
LEBANON—Adam, John (Cement)
Busby, George
LOGANSPORT—Barnes, James I.
Palmer, Geo. W. & So. (Road)
MARION—Barnes Bros.
Benner, F. M. & Co.
Michaels & Minnich
Yates & Edgar
MICHIGAN CITY—Ohming Bros.
MISHAWAKA—Rosewarne, W.
MUNICE—Illingworth, Fred. & Co.
Jones, Levi J.
Russey, Charles H. (Paving & Sewer)
NEW ALBANY—Goodbub, C. F.
Jefferson County Const. Co.
NEW CASTLE—Burke, T. J. & H. F. (Large)
Payne, Ed.
NOBLESVILLE—Heinzman Bros. (Large)
NORTH VERNON—Miller Bros. (R. R.. etc.)

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PERU—Burke, M.
**Theobold, Jacob**
PRINCETON—Watts, E. E.
RENSSELAER—Smith, W. F. & Co. (Roads, Sternberg, C. H. & Son etc.)
RICHMOND—*Johnson, B. & Son
RUSHVILLE—Herkless, A. R.
SOUTH BEND—Barnes, T. C. (Paving)
Christman, H. G. & Co.
Dresden & Slanfield
Eckler, Mfg. Co.
Hickey, Louis J.
Hoban & Roach (Sewer, Paving, etc.)
Nelson, James (Sewer, Paving, etc.)
Shipe & Turner (Excavating, etc.)
Webster, Lewis H. (Sewer)
SULLIVAN—Beck, W. T.
McKinley, H. O.
Mankedick, Chas.
TERRE HAUTE—Dorsey, Wm. C.
Foulkes-Forbes Co.
Kennedy, McGinnis & Co.
Kintz, T. C. & Sons
Luckett, William I.
Miller, Jacob W.
Modern Construction Co.
Muller, J. W. & Son
Roehm Bros.
*Wabash Construction Co.
VALPARAISO—*Clifford & Co. (R. R., etc.)
Conover & Taber
VINCENNES—Brown, R. A. & Co.
Hartigan, John
WABASH—Bridges, Thomas
Hipskind, Philip & Sons (Paving, Sewers, Masonry, etc.)
WASHINGTON—Brown, R. H. & Co.
Wilson, W. H. & Co. (Road)
WINAMAC—Winamac Bridge Co. (Sewer, etc.)

## IOWA.

BURLINGTON—Burlington Construction Co.
Young, N. S. (Railroad)
CEDAR RAPIDS—Bartlett, Chas. L. (Engr. & Contr.)
Bartlett & Kling (Builders)
Ford, M.
Stark Bros.
Wallace, R. A.
CLINTON—Lake, John
COUNCIL BLUFFS—Barris, Besley Co.
Consolidated Construction Co.
Jensen Bros. Co.
*O'Connor, James (R. R., etc.)
Wickham, E. A. & Co. (Paving, Sewer & Water Works)
DAVENPORT—Arnold, Alphonse A. Bldg. & General)
Coen & Conway
Concrete Engineering Co. (Concrete, Bridges, etc.)
Davenport Construction Co. (Municipal & Public)
*General Construction Co.
Hydraulic Concrete Construction Co.
Independent Construction Co.
*Kahl Construction Co. (R. R., Municipal & Public)
*List & Gifford Construction Co.
McCarthy Improvement Co. (Paving, etc.)
*McGrath Construction Co.
Mallory Const. & Realty Co.
Malloy Construction & Realty Co.
People's Construction Co. (Bridges, Con-
Phillips, Harry W crete, etc.)
*Purcell Construction Co.
Tri-City Construction Co. (Builders & General)
*Walsh Construction Co.
*Walsh-Hogan Construction Co.
DES MOINES—Barnes Bros. (Grading)
Benson & Marxer (Inc.)
Crain, Frank
Herrick, Oliver P. (Municipal)
Iowa Bridge Co.
King, Geo. M. Construction Co.
Lovejoy, J. E.
*Magden & Sheely
McGorrisk, John B.
Stark, N. M. & Co. (Paving & Bridge)
Turner, J. W. Improvement Co.
Turner, Roland Co. (Sewer, Waterworks etc.)
Weitz, Chas. & Sons
DUBUQUE—Brunkow, F. W.
Gregg, J. J.
McClean, Ed.
Mueller & Schelling
Werich, Willey
FORT DODGE—Jensen Construction Co.
Mayor & Jensen
IOWA CITY—Freyder, F. H.
Lehman & Bradley
KEOKUK—Cameron, Jas. & Sons
*Cameron, McManus & Joyce (Levee, Railroad, Sewer & Public)
Cameron & McManus
*McManus & Tucker (Railroad & Public)
Van Duzen & Turner
MARSHALLTOWN—Elzy, R. A. & Co.
Reimer & Co.
MASON CITY—Keerl-Stevens Construction Co.
OSKALOOSA—Carlon Const. Co. (Paving, etc.)
OTTUMWA—Ottumwa Brick & Const. Co.
Ottumwa Mill & Construction Co.
SIOUX CITY—Houx, C. R. (Bldr. & General)

## KANSAS.

ATCHISON—Schaeffer, George H. T. & Co.
CANEY—Nichols, C. R.
EMPORIA—Sprague, E. F. & Co.
FORT SCOTT—Ireland — Rolling
STRONG—*Sharp, C. H. Construction Co.
TOPEKA—Bennett & Allen
Brooks & Gilmore
Capitol City Vitrified Brick & Paving Co (Sewer, etc.)
Cuthbert & Sargent (General)
*Fox, John J. (R. R., etc.)
Kaw Paving Co. (Paving)
Sargent, John & Son
Spencer, F. M.
WICHITA—Wichita Construction Co.

## KENTUCKY.

BOWLING GREEN—Mercer, G. H.
COVINGTON—Craig, A. J.
HENDERSON—Manion, Ed. (General)
Mundo, J. W.
LEXINGTON—Howard & Merchant
LOUISVILLE—American Concrete Const. Co.
Bailey & Koerner
Baumeister, Henry H.
Bickel, Henry Co. (Grading & Excavating)
Bornstein, J.
Dorsey, S. L. & Son
Figg, L. R. (General)
Fitch, B. F. & Co.
Gosnell, G. W.
Gott, Fred.
Home Building Co.
McClusky, M. J.
Minor, J. S. & Sons (General)
National Roofing & Supply Co. (Paving)
Rommelle Bros. (General)
Schneiders, H. H.
*Serpell, John R.
Sibler, Jos. & Son. (General)
Southern Roofing & Paving Co.
Straw, Wm. T.
Struck, Alfred, Co.
Tobe, John D.
Wirth, P. & Son
NEWPORT—Ader, Frank G. (Engr. & Contr.)
Bowman, Ben.
McLane, John B. & Co.
Pyne, Ralph H.
Spinks, Harry C. (Street Work)
Trapp, Dan'l (Paving, etc.)
PADUCAH—Katterjohn, F. W. Const. Co.

## LOUISIANA.

BATON ROUGE—Kroger, John B.
COLLINSTOWN—McDonald, O. O.
NEW ORLEANS—Feitel, Maurice (General)
Geier Bros. (General)
Hasemann, L.
Koch, Julius
Kracke & Flanders
Moody, S. D. & Co.
Muir & Fromherz
Ruppel, A.
**STEWART, JAS. & CO. (Harbor,** Marine & Heavy Buildings), Hibernia
Thomas, A. G. Bank bldg
SHREVEPORT—Chatwin Bros. Riprap & Construction Co. (Street & Public)

## MAINE.

AUGUSTA—Noyes, R. J.
Puriton Bros. Co.
Smith, Frank
BANGOR—Cowan & McCarthy
Cutter, Leslie W.
Flanders, Albert A. & Sons
Grady, John & Son
Grady & McCarthey (Bridges & Public)
Muellen, J. B.
BAR HARBOR—Nevels & Stafford
Small & Ingalls
BATH—Thompson, S. D.
CANTON—Lavorgna, M. Co.
GARDINER—Paul, L. G.
Smith, Benj. S.
HOULTON—Murray Bros.
Sweet, C. A.
HULLS COVE—White & Carpenter.
KENNEBUNK—*Ward Bros. & Co. (Large)
LEWISTON—Bearce & Clifford
Saucier, Thos.
Wood, E. P.
LISBON FALLS—Applebee, C. E.
PORTLAND—Bennett, Wm. F. & Son
Cunningham, F. W. & Son
Doyen, Philip H.
Griffin, D. F. & Bro. (Paving & Public)
Gulliver, John W.
Hobson, Chas. H. & Son
*Shanahan, R. D. (Masonry & Concrete)
Smardon, George H. & Co. (Paving)
Worster & Wilson (General)
RICHMOND—Rowe Bros. Co.
RUMFORD—McGregor Bros.
McGregor & Carroll
WATERVILLE—Carey, Augustus
Purinton, Horace Co.
Winters, Henry T.

## MARYLAND.

†BALTIMORE—American Construction Co., 324 S Payson
Armstrong & Latta Co., American bldg
Baltimore Ferro Concrete Co. (Reinforced Concrete Work, etc.), Glenn bldg
Beardsley, J. W. & Co., 411 N Greene
Bennett, Benj. F. Bldg. Co., 123 S. Howard
Bennett, Geo. W. Franklin bldg
Bishop, S. R., 533 W Preston
Blake, George A., Law bldg
Brady Edward & Son, 1109 Cathedral
Buckley, John T., 916 Bolton
Calvert Bldg. & Const. Co., Calvert bldg.
*Claiborne, Johnson & Co., Calvert bldg
Clough & Molloy, Hardford Rd. & B. & O. Belt Line
Coppinger Walter, 602 W Lafayette av
Cremen, C. & Co. (General), 1422 N Carey
Cross, John H., 1026 Decker
Cushen, P. J., Law bldg
Davis, Milton C., 15 E Fayette
Decker, Fred'k & Son, 1209 E Biddle
Dotterweich, Jno. J. (General), 229 S 5th E
Evans, David, E. V. Co.
Farley, James F., 43 Franklin
Ferguson, Wm. & Bro., 214 Clay
Filbert Paving & Construction Co. (Paving, etc.), 1210 Block
Fisher & Carozza, American bldg
Flanigan, P. & Son (General), Lexington & Calvert
Glenn, Benj. (Bridge), 2300 E Baltimore
Goldbach, Otto, 321 S Dallas
Harding, Daniel Towson, Md.
Hiltz, John & Son Co., 3 Clay
Hopkins-Barnett Co. (Concrete Work), Huebner, J. A. Vickers bldg
Huse, A. R. & Son, 12 Gorsuch av
*Jones, T. B. & Co. (R. R. Sewer, Masonry, Wharf, etc.), Rowland Park
Kelly, John H., 1124 Hartford av
Knell, Andrew Jr., 215 St. Paul
Kunkel, John F. 413 King
Larkin, Dominick M., 1465 Columbia av
Long, Frank H. (General), 3311 1st av
*McCabe, James F. Co. (Paving, Tunnel, Bridge & Railroad), Equitable bldg
McCarthy, Wm. & Co. Sewers & Bridges), American bldg
McCulloh, R. N. (General), 1806 N Charles
*McLean Contracting Co. (Dock, Bridge & Railroad), Maryland Trust bldg
Mason, R. B., 15 E Fayette
Minor, B. W. & E. 222 W. Pratt
Monmonier & Sorrell, 1711 McCulloh
Morrow Bros. (Large), 218 W Saratoga
Murphy, Wm. T. Eutaw & McCulloh
Nardin, George F., 773 W Pratt
Nichols Bros. (Concrete Construction)
Noel Construction Co. (Large, General), U. S. Fidelity & Guaranty bldg
Peoples, David, 213 N Calvert
Pierson, Henry & Sons, 1000 Olive
Reddington, P. & Sons (Paving & Public), Rippel, Henry S., 5 Clay 321 St. Paul
Roehling's, John A. Sons, Continental bldg
Ryan & Reilly, American bldg
*Sanford & Brooks Co. (Railroad, Dredging, Harbor & Government Work), 24 Commerce
Schamberger, Jos., 2122 E. Baltimore

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Schneider, F. E. Paving Co. (Excavating, Paving, etc.), Law bldg
Schoenlein, Lorenz & Son, 2218 Boyer
Schuck, Albinus, 100 N Clinton
Smith, Henry & Sons Co., 116 S Regester
Snyder, Henry & Son, 2663 W North av
†Southern Electric Co., 16 Light
Spicknall, Chas. A., 237 N Fremont
Springer, Eugene D., 424 S. Charles
Strouse, Thos. (Concrete Construction)
*Talbott, M. A. & Co. (Sewer, etc.)
Utterbach, George (Grading), 1326 N Fulton av
Waters, John, 23 E Centre
Weaver, John C. & Son, 2000 Hanover
West, Arthur F., Builders' Exchange
†**WESTINGHOUSE ELECTRIC &** Mfg. Co. (Electric Power Installation), (See adv. index, end of book)
Youngstown, Construction Co., Equitable bldg
CAMBRIDGE—Brown, J. Benjamin
CUMBERLAND—Offcutt, James
Wilson, Jas. H.
Wise, Silas W.
FROSTBURG—Fuller Bros.
HAGERSTOWN—Clarkson, John T.
Sherley, O. D.
Wolf, George B. McC.

## MASSACHUSETTS.

AMESBURY—Doe, F. A.
ATTLEBORO—Dexter, Everett, O.
Eden, John
Japson, Nelson (Masonry)
Mackinnon & Nicholson
Perry, Emerson E.
Young, Daniel & Co.
BEVERLY—Crosby & Cann (Masonry)
BEVERLY FARMS—Connolly Bros. (Public Work)
Hardy & Day
Watson Bros.
BOSTON—Aberthaw Construction Co. (Building), 8 Beacon
Alexander, F. C. (Building), Old South bldg
Ambursen Hydraulic Construction Co. (Dams, Bulkheads, Powder Houses & General Hydraulic Construction), 176 Federal
Atlantic Construction Co. (Public Work), 6 Beacon
Barrett, J. J. (Excavating, etc.), 615 Dorchester av, S B
Bartlett, Chas. H. (Engr. & Contr.), Pemberton bldg
Bay State Dredging Co. (River & Harbor) 185 Summer
Belleden, C. H., 35 Warcham (Builder)
Berlin Construction Co., 131 State
Bianco Bros. (Public Work, etc.), 27 School
Bigelow & Harriman (Builders, etc.), 127 Federal
Bishop, J. W. Co. (Builders & Public Work), 683 Atlantic av
†Boston Industrial Co. (Inc.), 178 Devonshire
Breymann, G. H. & Bros., 293 Marginal, E B
*Bruno & Petitti (Sewer, Waterworks, R. R., Masonry, etc.), 18 Tremont
Bruty, John W. (Building, etc.), 7 Water
Burke, D. F. (Building, etc.), 7 Alden
Burns, David F. (Building, etc.) 36 Broomfield
Byrne, G. M. Co. (Public Work), 79 Milk
Cefalo, Antonio (Excavating, etc.), 220 De-
*Coleman Bros., 15 Court sq vonshire
Coleman, J. C. & Sons Co. (Street & Public), 1620 Tremont, Rox.
Cowin, Frank H. Co. (Public Work), 184 Summer
*Cram, D. H. (R. R. Bridges & Public Work), 23 Powers, S B
Currier, Chas. E. Co. (Building, etc.), 11( Summer
Derry, C. T. (Sea Walls, etc.), 68 Devon-
Dodge, C. A. Co., 166 Devonshire
*Dolloff, C. W. & Co., 20 Central
Donovan, Patrick F. (Grading, etc.), 115 Terrace, Rox.
Duff, John W., 170 Summers
Dugad, George R. & Co. (Excavating, etc.), 166 Devonshire
Eagles & Irwin (Builders, Masonry, etc.), 7 Appleton
Eastern Dredging Co. (River & Harbor), 247 Atlantic av
Edwards & Monahan (Builders) 6 Beacon
Ellis, W. H. (Bridge & Masonry), 18 Tremont
Farnum, Hanscom (Engineers & Contractors), 53 State
Froser, Jas. C. & Co., 5 Province ct
Fuller, Geo. A. Co. (Builders), 131 State
Gascoigne, Alderman & Shattuck (General) 49 Federal
Gilligan, William (Excavating, Grading, etc.), 28 Mechanic, Rox.
†Gore, F. S. & A. D. (Paving, Sewer, Electric Railway, etc.), 1016 Adams, Dor.
Gore, J. Thomas (Public Work), 45 Kilby
Gow, Charles R. Co., 79 Milk
Hall Chas. F. 17 Milk
Hanscom Construction Co., 53 State
Harvey, Geo. W. Co. (Building), 24 Milk
Haskin, C. A. (Grading, etc.), 16 City sq
Hayes, Geo. Co. (Public Work), Nay nr Meridan
Hill, Peter W. (Public Work), Old South
Holbrook, Cabot & Rollins Corp., 6 Beacon
Holt, Fairchild Co., John Hancock bldg
Horton & Hemenway (Large Builders), 683 Atlantic av
Jones, A. D. (Building, etc.), 76 Kingston
**Jones & Meehan (Street & Public Work),** 10 Tremont
Keene, H. B. (Building), Tremont bldg
†Kendall, M. K. & C., 32 Oliver
Keyes, W. H. & Co. (Builders, Street & Public Work), 95 Milk
Kiley, Daniel J., 95 Milk
Lawler Bros. (Heavy Masonry, etc.), 16 City sq. Chsn.
Letteney, J. H. (Public Work), 101 Tremont
Ley, F. T. & Co. (Public Work), 630 E. 1st
Locatelli, J. E. Co., 46 Cornhill
McCarthy, J. J. & Co. (Grading, etc.), 170 Summer
McClellan, Jos. B. (Building), 665 Boylston
McCormick, Matthew, 157 Ward, Rox.
MacDonald, August & Co. (General), 161 Devonshire
McGovern, Jas. (Excavating, etc), 188 Geneva av
McGovern, Patrick (Paving), 6 Beacon
McMorrow, Jno. (Grading, etc.), 328 Adams Dor.
McMurtry, A. J. & G. H. (Excavating, etc.), 16 Shepard (Br.)
Mack & Moore, 166 Devonshire
Macomber, Geo. B. H. Co., 16 State
Martson, L. K. (General), 22 Devonshire
Marr, Daniel & Son (Public Works), 384 Dor. av, S B
Marr Bros. & Steward Co., 95 Milk
Mead, Mason & Co. (Builders & General), Tremont bldg
Metropolitan Contracting Co. (Street & Public Work), 95 Milk
Miller, W. L. (Bridge & Masonry), 166 Devonshire
Minton, Thos. F. (Grading, etc.), 4 Hyde Park av
Moore & Co. (Water Works and Public Work), 12 Pemberton sq
Monroe, W. B. (Public Work), 101 Tremont
Murphy, Cornelius & Son (Grading, etc.), 296 Kilton
Nawn, Hugh Contracting Co. (Excavating & Public), 82 Savin
Norcross Bros. Co. (Builders & Public Work), Tremont bldg
Northeastern Construction Co. (Public Work), 6 Beacon
O'Connell, Dennis F. Co. (Heavy Masonry, etc.), 49 N Marginal
O'Riorden, P. (Est.) (Excavating, etc.), 6
Orne & Lawrence, 46 Cornhill City sq
Palmer, John E. (Grading), 294 Wash'n
Pitman & Brown Co. (Public Work), 166 Devonshire
Proctor, John H. & Co. (Building), Old South bldg
Rafferty, Wm. J. & Co. (Grading, etc.), 33 Champney, S B
Redmond, Chas. D., 233 Pleasant
Roberts, Edward B., Old South bldg
Sawyer, C. A. Jr. Co. (Grading, etc.), 6 Beacon
Scully, J. T. Foundation & Transportation Co. (Foundations, Excavating, etc.), 95 Milk
Seretto, Michael (Sewer & R. R.), 42 Court
Smith, Wm. H. Co., Tremont bldg
Snow, F. A. (Public Works), 166 Devonshire
Sullivan, J. J. (Excavating, etc.), 95 Milk
Sullivan, Jno. H. (Road & Sewer), 20 Lake
Tomasello, Antonio G., 69 Gibson Br.
Trumbull, C. E. C. (Sewer & Public Work), Tremont bldg
†**WESTINGHOUSE ELECTRIC &** Mfg. Co. (Electric Power Installation), (See adv. index, end of book)
Whidden & Co. (Building), 155 Milk
Whitcomb & Kavannaugh, 6 Beacon
Whitney, Arthur C. (Builder, etc.), 18 P. O. sq.
Whiton & Haynes Co., 35 Federal
Willcut, L. D. & Sons Co. (Building), 146 Summer
Woodbury & Leighton Co. (Builders & General), 201 Devonshire
Wyman, Wendell H., 68 Devonshire
BROCKTON—Howard, George & Sons Co.
Sampson, E. T.
BROOKLINE—Allen, Philip S.
Carroll, B. F.
Driscoll, J. & Son (Public Work)
Kelley, T. J.
Mealey, Francis
CAMBRIDGE—Dodge, C. A. Co.
Eastman, H. T. & Co.
Linehan, Chas. (Est. of), (Public Work)
McGirr, John C.
O'Sullivan, Michael
Riley, J. M.
CHELSEA—Haley, Michael S.
EVERETT——Coleman Bros.
FALL RIVER—Allardice, James
Allen, Alton A. (Road, etc.)
Beattie & Cornell (Builders & General)
Beattie & Wilcox (Builders & General)
Bolduc, Leander (Building, etc.)
Nicholson, Mitchell (Building & General)
Pigeon, Arthur
Powell, Morgan & Co.
Terry, Jno. C. (Bridges, etc.)
Williston, Chas. H. (Paving, etc.)
FITCHBURG—Hartwell, Walter A. (Building & General)
Moran, John (Excavating, Grading, etc.)
Wiley & Foss
GLOUCESTER—Cressy, Walter
Higgins, Geo. E.
HAVERHILL—Kelly Bros.
Roche, John M.
†HOLYOKE—Carreau, Louis & Son (General & Building)
Landers, D. J.
O'Connell's D. Sons (Water Work & Public)
Prew, John J.
Thorpe, George L.
INDIAN ORCHARD—La Riviere Octave Co.
LAWRENCE—Holland, Philip (Excavating, etc.)
O'Mahoney, Michael
Pike, W. N. & Sons (Large)
Pitman, Ernest W. (Builders & General)
LOWELL—Conaut, Chas. P.
Conners Bros. Co.
Drapeau, Wm. (Building, etc.)
O'Hearn, P.
Penn. Wm. H. (Public Works)
Rabeour, Arthur E. (Building, etc.)
Ward, W. H. Co. (Public Works)
LYNN—Mayo, Fred. D. (Sewer, Paving & Excavating)
Pevear, Everett S. (Excavating, etc.)
Sheehan, John & Sons
Strout Bros.
MALDEN—Graffan, Edwin M.
Loome, Charles
O'Brien, Timothy
MELROSE—Hudson, R. F. (Road)
MIDDLEBORO—Thomas & Connor
NATICK—Ferguson, D. J. & Son
NEW BEDFORD—Bishop, J. W. Co.
Duff, David & Son (Excavating, etc.)
Langlois, Joseph
Smith, Benj. F. & Co. (Large)
Vance, Bert A.
NEWBURYPORT—Cashman Bros. (Roads, etc.)
NEWTON—Stuart, T. & Son Co. (Public Work)
NEWTON CENTER—Hurley Bros. (Grading, Roads & Masonary)
Muldoon, Arthur (Sewer & Excavating)
Steeves, S. G.
NEWTONVILLE—Higgins & Nickerson
NORTH ADAMS—Whitney Bros.
NORTHAMPTON—Bishop, A. & Son
Huxley, Frank
NORTH ANDOVER—Adams, Edw.
PALMER—Atkins, George M. Co. (Heavy Masonry, etc.)
*Flynt Building & Construction Co.
PITTSFIELD—Beckwith & Pike
Osteyee Bros.
Riley, Thomas P. (Building, etc.)
QUINCY—Cashman, John & Sons Co.
Shea, William & Son (Excavating, Grading, Whelean, Thos. & Co. etc.)
SALEM—Peterson, J. N. & V. S. (Sewer, etc.)
Welch, Jas. J. & Co. (Public Work)

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SANDWICH—Cape Cod Construction Co.
SOMERSET—Terry, Jos. C. (General & Pile Driving)
SOMERVILLE—Falvey, John J.
Gill, T. H. (Public Work)
McCarthy, Wm. J. & Co. (Public Work)
SOUTH FRAMINGHAM—Prindiville, J. J. Co.
†SPRINGFIELD—Anger's, J. A. & Bro. (Building)
Barker, Jno. K. (Engr. & Contr.)
Bushey & N. C. (General & Bldg.)
Gagnier & Angers
Goodrich, W. C. (Excavating, Grading, etc.)
Labrie, Alfred (Excavating & Grading)
*†Ley, Fred T. & Co. (Inc.) (Sewers, Water Works, Electric, Roads, etc.)
Mellen, Daniel W. (Masonry)
Mesisco, Joseph E. & Sons (Excavating, Reynolds & Co. (Excavating, etc.) etc.)
Rice-Valaentine Co. (Excavating & Grading, etc.)
Sackett Bros. (Excavating, Grading & Sewer)
Shaw, V. A. (Excavating & Grading)
Vaughan Construction Co. (Excavating, Waterworks, etc.)
Vaughn & Kibbe (Excavating, Grading, Sewer, etc.)
Walls, J. F. & Son (Building)
*Wright, A. H. & Son (Dam, Bridge & Heavy Masonry)
SWAMPSCOTT—Lyons, James T.
McDonough, Mich'l (Street & Public)
Tuttle, H. Scott (Street & Public)
TAUNTON—Briggs, Abram T. (Heavy Ma-
UXBRIDGE—*Newell & Snowling Const. Co.
WAKEFIELD—Butler, A. A. (Masonry & Roads)
Killorin Contracting Co. (Roads & Grad-
WALTHAM—Caughey, Geo. H. ing)
McCusker, Frank W. (Masonry, Grading & Macadam)
McCusker, John H.
Malloy, P. & Son (Excavating, Grading, etc.)
O'Malley, Peter J. (Excavating, etc.)
WATERTOWN—Kelly, Thomas F.
Murdough, Albert B.
WEST CHELMSFORD—Fletcher, H. E. & Co. (Excavating, Bridge & Dam Masonry, Foundations, Stone Masonry, etc.)
WEST NEWTON—Cotter, Jerry & Sons
Gannon Bros.
WOBURN—Ellis, J. M.
WORCESTER—Allen, F. L. (Sewer & Public)
Benson, Oscar T. (General)
Bishop, J. W. Co. (Builders & Public Work)
Booth, A. N.
Central Building Co.
Cross, Edward J.
Donohue, Michael (Sewer)
Fiske-Carter Construction Co. (Building)
Gironard, J. E.
Higgins, J. J.
*Jamesville Construction Co. (Sewers, Waterworks, etc.)
Kane, Michael J. (Excavating, Grading, Loftus, John etc.)
McDermott Bros.
Mark, F. W.
Mellen, Henry & Son (General)
Norcross Bros. Co. (Builders & Public
Pike, H. S. (Excavating & Road) Work)
Robbins, A. P. (General)
Vaughn, C. A.
Ward, Edw. D. (General)
Webb Granite & Construction Co.
Whitehead, E.

## MICHIGAN.

ALPENA—Collins, R. H.
Gebhardt, Morrow & Co.
ANN ARBOR—Koch Bros.
Sauer Bros. (Bldrs. & General)
BATTLE CREEK—Blanck, A. E.
Cole, S. B.
Hall Bros. & Co. (Masonry)
BAY CITY—Campbell, Hugh (Masonry, etc.)
Donohue, Robt. (Sewer, etc.)
Fox, Henry (General)
Freel, Michael & Son (Concrete)
Lardner, Thos. (Sewer, etc.)
McLaughlin, D. (Paving, etc.)
McLean, Joseph
Maher, W. J. (Paving, etc.)
Meagher Bros. (Paving, etc.)
Peterson, Peter (Paving, etc.)
Steinbauer, F. J. (General)
Wells, Whitney (Bridge, Bldrs., etc.)
Whyte, Michel (Sewer, etc.)
BENTON HARBOR—Bakeman, Geo. F.
Bean, W. Worth, Jr. (Engr. & Contr.)
Mills, G. A. & Son
Pratt, Frank F.
CALUMET—Hall, George
Jacka, George
DETROIT—Acme Const. Co., 1275 Townsend
Affeld, J. S. (Sewers, etc.), 761 Campgell
Albert, A. A. Co., Penobscot bldg av
Archer, John & Co., McGraw bldg
Baker, R. & Co. (Concrete), Home B'k bldg
Bartholomaei, Max W. Son & Co. (General), 466 Warren av
Batchelder & Wasmund, 70 E. Atwater
Blay & Co. (Masonry), Home Bk. bldg
Boehm, Paul P.
Boston, Chas. & Sons (Pile Driving, Dock, etc.), 2177 W Jefferson
Bouvier, C. F. (Sewer, etc.), 149 Harmon av
Brown Construction Co., Hammand bldg
Bryant & Detwiler (Eng. & Contrs., Reinforced Concrete, etc.), Hammond bldg
Buchanan, Jas., 51 Monroe
*Butler Bros.-Hoff Co., Whitney bldg
Candler Dock Co. (Pile Driving, Docks, Bridges, etc.), Moffat bldg
Carmichael, Andrew T. 145 Forest av W
Carew, Henry, 210 Jos-Campau
Chase & Schultz, Chamber of Commerce
Christian & Co., Chamber of Commerce
Connors Bros. Co., Shelby
Currie, Thomas E., Penn. Bank bldg
Currie Cement Const. Co. (Concrete Work, etc.), 1250 Jefferson
Damm & Hansen, 116 Farmer
Detroit Contracting Co., Penobscott bldg
Detroit River Tunnel Co., M. C. Station
Detroit & Toledo Construction Co., Penobscot bldg
Dupuio, A. J. Co. (Constr. & Dock Bldrs.), 1109 Ford
Fidelity Const. Co., Majestic bldg
Gabriel Concrete Reinforcement Co., Penobscot bldg
Garrier Bros. & Co. (Concrete Work), 499 Chene
Gearing Bros. Co. (Ltd.), 15th M C R R
George & Co., Penobscott bldg
Ginzel, Jno. Co. (Bridges, Docks, etc), Buhl blk
Goddard, F. H. (Bldrs. & Gen'l), Ford bldg
Grant, Smith & Co., Locker-Stoney Island
†Griffin, M. J. (Railroad, Paving & Masonry, etc.), 169 Stanton av
Hamilton, J. H. (Sewers, etc.), 71 Charlotte av
Hanley, Jas. (Sewer, etc.), Peninsula Bank
Hanly, John, Tolsma bldg bldg
Hatch, W. W. & Sons Co., Penn. B'k bldg
Heatke & Teller, 186 6th
Helson, Richard, 21 Gilman
Helson, Wm. J., 25 Gilman
Home Construction Co. (Builders & General), 2887 Woodware
Houghton-Kaiser Cement Block Co. (Cement Work) Waterloo & Belt Line R. R.
Jeynes, Jno. (Sewer, etc.), 22 Sidney av
Johnson, Fred R. (Bldg & Gen'l), 179 Motta bldg
Jones, E. B. (Sewers & Grading), 405 Stanton av
Kennedy, D. J. & Son (Paving) Home B'k
Kinnell & Miller (Concrete Work) 2084 River
*Lennane Bros. (R. R. Paving, Sewer & Concrete), Penn Bank bldg
Lesinske, Leszczynski Co., 515 E Forrest av
Lloyd Construction Co. (Gas Works), 860 Greenwood av
McClear, L. H., 37 Bryant
Maynard, A. H., 9 Elm
Miller, F. J. (Cement Construction), Jeff & Hamilton
Mercier, John A. (Excavating, etc.), Hammond bldg
Oakwood Contracting Co., Oakwood & River Rouge
*O'Donnell, Hugh & Son (Excavating, Railroad, Sewer, etc.), Penin. Bank bldg
Ostrand, Willard. 2799 Wood av E
Otis Cement Walls & Construction Co., Hammond bldg
Porath, Julius (Sewers, etc), Peninsular
Porath, Wm. (Sewers, etc.) Bank bldg
Raymond Bros. Co. (Concrete Work) Pen. Bank bldg
Reid, E. W. & Co. (Reinforced Concrete Work, etc, Trussed Concrete bldg
Reynolds, Geo. (Gratding. etc.), 669 16th
Rogers, T. W. & Co. (Masonry, etc.), 639 639 15th
Schlinger Bros. & Co. (Concrete Work & Paving), 364 Illinois
Sestedt, Chas., Hamilton av n Jefferson
Smith, Andrew J. Construction Co., Ham-
Spicer, David, 51 Casper mond bldg
Trussed Concrete Steel Co. (Concrete)
Vinton Co. (Bldrs. & Gen'l), Woodbridge & Beaubieu
Wescott Wrecking Co., ft. Woodward
†WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
Whitney, F. J. Brush & Wilkins
Whittaker, John & Co., 51 Church
Whittaker, Thos. G. (Sewer, etc.), 189 Selden av
Winterhalter, Geo. (Sewers, etc.)
Wood, F. B., 64 Gibson
Wood, W. E., ft. of Concord
Worden, Geo. A. (Reinforced Concrete Work)), Penobscott bldg
FLINT—Wood, W. E. (Public Work, etc.)
GRAND RAPIDS—Ackerman, J. B. Co. (Gen-
Appleyard & Johnson (General) eral)
Central Westrumite Co. (Paving)
Davidson, G. H.
Hauser-Owen-Ames Co. (General)
Hoertz, Chas. & Son
Kloote & Van der Veen (Street)
McNabb, Jno. Co. (General)
McDermott, T. P. (Paving, etc.)
Pickett, Richard (Street)
Rosema, N.
Rusche, J. P.
Savage, E. J. (Bridge, etc.)
HANCOCK—Anderson, Eric
Key, Henry F.
Verville Bros.
HOUGHTON—Byers, Jas. J. & Co.
Gundlach, H.
Hildibrand, Frank
Michaels, J. J.
Pryor, Jas. & Son
HUBBELL—Osceola Construction Co.
IRON MOUNTAIN—Hoose & Perion Const. Co.
IRONWOOD—Olson & Bergquist (Building)
ISHPEMING—Wahlman, J. & Son
JACKSON—Brooks, T. C. Son Co. (General)
KALAMAZOO—Brundage, O. W.
Flaitz, Frank
McQuigg, Moore
Rickman, George & Sons Co.
Van Der Horst, Henry D.
Van Eck, Gerald
LANSING—Algate, J. H. (Sewer, etc.)
Kneal & Ryan
LAURIUM—Anderson, Chas. A.
McDonald, J. T.
Thielman, C.
MANISTEE—Nelson & Hansen
MANISTIQUE—Mosher, John
Ramsen, W. S.
MARQUETTE—Lipsett & Sinclair
Mitchell & Sherman
Powell & Mitchell
Wilson, A. P. (Building, etc.)
MENOMINEE—Spaulding, E. P.
MUSKEGON—Buck & Mullen
Burke, Smith & Nelson
Columbian Construction Co.
McIntosh, Alex
Robinson, E. C.
PORT HURON—Jones, Wm. E.
Smith, A. J. & Sons
SAGINAW—Burmeister. J. H. (Sewers), B. E.
Cleveland-Trinidad Paving Co.
Creswell, T. B. (General)
Crowley, David & Son (Street & Road)
Davies, J. C. (Sewer, Paving, etc.)
Delonjay, C. L. (Cement)
Gelinas, A. & Sons (General)
La Londe, Zepher (Paving)
Murphy, M. J. (General)
Interstate Construction Co. (Bldrs., etc.)
Parth, John
Qualmann, John H.
Scanlon, John (Paving)
Sterling, John (Sewer)
SAULT SAINTE MARIE—Durocher, Thos. L.
Great Lakes Dredge & Dock Co. (River & Harbor)
Hickler Bros. (Dredging & Submarine Drill-
Hunt, M. N. ing)
Irwin, John B.

## MINNESOTA

ALBERT LEA—Anderson Bros.
Dominick, D. M.
Sorenson, N. C.
Tapager & Hanson
Thompson & Nelson

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DULUTH—Barnett & Record Co. (Engineers & Dallivia, Jno. General)
Drake & Stratton Co.
Duluth-Superior Dredging Co.
Engle, Emil (Sewer)
Ereckson & Lindrose (Concrete)
Fairchild, D. L. (Drilling Contrs.)
Frederickson, C. J. (General)
Great Lakes Dredge & Dock Co. (River &
*Hanover & Hickey Harbor)
Hilliard, J. W. (General)
Hugo & Tims (Dredging Concrete)
Interstate Dredge & Dock Co.
*King, Geo. R. (Railroad, Sewer, etc.)
McDonnell, Patrick (Paving, etc.)
MacLeod & Smith (General)
*National Railway Construction Co.
Northern Dredge & Dock Co.
Olson, O. W. (Buildings, Excavating, Sewer,
Osborn & Co. (Harbor) Grading, etc.)
Pastoret & Lawrence Co. (Sewer, Street, etc.)
*Quigley, J. R. & Son (R. R. Buildings,
Roberts-Kingston Contracting Co. etc.)
*Runquist, Jno.
Smith & Vokes (General)
Steele, Hugh (Sewer, Street, etc.)
Vivian, Jas. G. (Drilling Contrs.)
Watterworth & Fee (General, Street & Pub-
FERGUS FALLS—Lauritzen, John lic)
FRAZEL—Kohler, Jno.
HIBBING—Drake & Stratton Co.
Geary, Jas.
Longyear, E. J. (Drill)
Missabe Quarry & Contracting Co.
Sillman, A. L.
Winston-Dear Co.
LITTLE FALLS—Harrison & Peterson
MANKATO—Nelson, J. B. & Co.
Widell Co.
MINNEAPOLIS—Bailey-Marsh Co., Metropoli-
*Balch, H. F., Century bldg tan Life bldg
Barnett & Record Co. (Grain Elevators &
Heay bldgs.)
Bayne, A. Y. & Co. (Bridges, Concrete,
Brown & Zenz, Lumber Ex. etc.)
Congdon Construction Co., Oneida blk
Continental Bridge Co. (Bridges, etc.), Met.
Cooke, Geo., Boston blk Life bldg
Dauson & Walgren, 3638 Central av
Davis Construction Co., Kasota bldg
Doeltz, W. F. & Son, 801 N W bldg
*Dougherty, J. P., Globe bldg
Elliott, J. & W. A. (Public Works), Lum-
ber Exchange
Evensta, E. G., 301 N W bldg
General Contracting Co. (Paving), 445 Tem-
Graves, F. E., Lumber Ex. ple ct.
Haglin, Chas. E. General), Lumber Ex.
Hegg, F. N., 424 4th
Hennepin Bridge Co. (Bridges, etc.), 968
Ilstrup & Olson (Sewer, etc.) Laurel
*Jacobson, R. A. & Co., Blobe bldg
Johnson, Ermie M. Kosota bldg
*Kerrick, Construction Co., 507 3d av, N E
Lasley, W. M., 112 Temple ct
Leck, James, New Andrews bldg
Lees, R. E., 303 6th av, S E
Leighton, H. N. Co. (General), 213 S 6th
Libby & Nelson (General), Temple ct
Miller, E. Lumber Ex
Moulton & Evans, Corn Ex
Park Construction Co., 31st av S & Lake
Pike & Cook Co., 416 S 6th
Roberts, W. W. (Bridges, etc.), North-
western bldg
Schreiber & Connelly, Portland & Wieder
Security Bridge Co. (Bridges, etc.), 36th &
Hiawatha av
Westerdohl Bros., 6th av N, 1 mile from
City Limits
*Winston Bros. Co. (Railroad, etc.), Globe
Wunder, John C., Lumber Ex bldg
NEW ULM—Cuddy-Cavanaugh Co. (Sewers, etc.)
ST. CLOUD—Doyle, O. F. (Sewer, etc.)
Heinman, John
Kropp, Carl
Wahl, Ambrose J.
ST. PAUL—*Boynton, Church & McCoy, Germ.
Life bldg
Brady, Thos. (General) Ryan Annex
Butler Bros., N. Y. Life bldg
Cameron & Co., Ryan Annex
*Caughren, Winters, Smith & Co., Gilfillon
bldg
*Church, H. W. & Co., Germ. Life bldg
Clark & McCormack (Stone Crushers), 138
E. 6th
*Dale & Bungardner (Grading, Railroad,
etc.), Scandinavian-American Bank bldg
Deeks & Deeks (General), Germ. Amer.
Bank bldg
Fielding & Shepley (Sewer Grading, Paving
& Bridge), 216 W University av
*Foley Bros. (Railroad, etc.), Gilfillan bldg
*Foley-Welch & Stewart, 594 Westminster
Forestal & Feyen (General), N. Y. Life
Frankman Bros., Globe bldg bldg
Grant, G. J., Construction Co. (General),
New York Life bldg
*Guthrie, A. & Co., German-Am. Bank bldg
*Harrington Construction Co., 319 Jackson
Harrington, D. D. (Contr. & Bldr.), 134
Hasslen & Co., 649 Silbey av E 8th
Hennessy, P. M. Construction Co. (Paving,
Sewer, etc.), 205 New York Life bldg
Hoy & Elzy Co., Metropolitan bldg
Kampfer, Chas. W., ft. of Chestnut
Kampfer, Chas. & Son, Scan. Am. B'k bldg
Keough Bros., Hamline & Otto av
Lauer Bros. (Heavy Masonry, etc.), Day-
ton & Summit
*Morris & Shepard, Globe bldg
Nelson Bros. Paving & Construction Co., 221
S 5th av
Oakes, Geo. W. & Co., Endicott bldg
Partridge, A. W. & Co., Globe bldg
*Porter Bros. & Welch, Brokerage bldg
Romer, F. J. Construction Co., 190 Ram-
Schreiber & Connolly sey
*Seins & Co., Germ. Amer. Bank bldg
Swanstrom, Geo., 1604 University av
Telander, F. G. & Co., 140 Mackubin
Thornton Bros., Scan. Ameri. Bank bldg
Union Construction Mfg. Co., Court blk
Wilcken, F. J. & Co., 228 McBoal
STILLWATER—Olsen, O. H. (Public Work)
WINONA—Abell & Braley Co. (Paving, Sewer,
Harders & Gatz etc.)
Knop, John
Lohse, John
Schwab, Peter
Seidlitz & Werner

## MISSISSIPPI.

GREENVILLE—Miller, Geo.
JACKSON—Anderson, E. F. (Paving, etc.)
*Baxter, J. J. (R. R. & Public)
Hull, F. B. Construction Co.
Sims Contracting Co.
STARKVILLE—Ard, Chas. E.
VICKSBURG—Garbsch, H. F.
Helgason Bros. (River)

## MISSOURI.

CARTHAGE—*McNerney & Burke (R. R., etc.)
COLUMBIA—Fellows, John N
Stewart, Thos. B.
INDEPENDENCE—Lewis, John E.
JEFFERSON CITY—Pope, Joseph
Schneider, Henry
Short, John F.
Todd, Geo. M.
JOPLIN—Fosler, A. J. Construction Co. (Engrs.
Winter & Walt & Contrs.)
KANSAS CITY—Brown, Geo. L. & Son, Am.
Bank bldg
Burness, F. B. Co., 1223 Admiral blvd
Collins & Shinholser, Graley bldg
Colyer Bros., Waterworks bldg
*Connelly, Jerry, 3924 Windsor av
Crites & Beatty, N. Y. Life bldg
Crosley, L. & Son, N. Y. Life bldg
Freeborn Engineering & Construction Co.
(Public & Municipal Work of All Kinds),
Scarritt bldg
Goodlander, George W., Postal Tel. bldg
Hucke & Sexton Contracting Co. (Builders
& General)
Johnson, A. D. Const. Co. (Sewers, etc.)
*Kahmann & McMurry (General), Bryant
bldg
Kansas City Bridge Co. (Bridge & Stone
Piers), 1108a E 15th
*Kenefick-Quigley-Russell Cons. Co.
Kenefick, Wm. Co., Bryant bldg
McTernan-Halpin Construction Co., Grand
av & 25th
Marshall, D. E. & Co., 2011 E. 10th
Parker-Washington Co. (Paving, etc.), 2309
Penna
*Sharp, C. H. Contracting Co., R. A. Long
bldg
Smith, J. Construction Co., Bank of Com-
Swenson Construction Co. merce bldg
Taylor & Winn Construction Co. (General),
Mass. bldg
Union Bridge & Construction Co., New
Nelson bldg
Urban Construction Co., Dwight bldg
Walsh, Michael (Sewers, etc.), 2915 E 23d
White & Maas (Grading)
MOBERLY—Lynch, J. E.
ST. JOSEPH—Buddy, Phil. P., Building &
Riepen, J. C. Construction Co.
St. Joseph Construction Co. (Masonry)
Selden-Breck Construction Co.
ST. LOUIS—Abadie, E. H. Co. (Engrs. &
Contrs.), Third Nat'l Bank bldg
Althaus, Jacob & Co. (Bldrs.), Burlington
bldg
Anderson, A. & Co. (Large), Victoria bldg
*Anderson, R. A. & Co., 717 Locust
Atlantic Quarry & Construction Co., Scott
& Montrose
*Bambrick Bros. Construction Co. (General),
5229 St. Louis av
Barber Asphalt Paving Co. (Paving, etc.),
721 Olive
Biggs, J. C. Const., Wainwright bldg
Blair, G. M., Burlington bldg
Black, James, Masonry & Contracting Co.
(Sewer & Masonry), Wright bldg
Boland John V. Construction Co., 721 Olive
Bothe, Geo. & Co. (Bldrs. & Gen'l), 1603
N 18th
*Boyce, W. D. Engineering Co., Chemical
bldg
Bright, J. H. Contracting & Building Co.,
706 Chestnut
Bruner, P. M. Granitoid Co., Frisco bldg
Bush, W. R. Construction Co., 211 N 7th
Carroll Contracting Co., Navarre bldg
Carmichael, Wm. P. Co. (Eng. & Conts.),
Fullerton bldg
Casey & O'Keefe, 4258 Cook av
Cavanagh, T. E. (General), 3063 Madison
Central Illinois Const. Co., 2d & Salisbury
Chapline Realty & Const. Co., Victoria
Clarke & Ausbro, Liggett bldg bldg
Clifford, P. M. Granitoid Contracting Co.,
Navarre bldg
Cowen-Quillin Const. Co., Liggett bldg
Cunliff, Charles, Navarre bldg
Denham, William L., 2501 Semple av
Donovan, D. H. & Co., De Menil bldg
Dunnavant, Jno. J. J. Const Co., Oberlin
av & Delmar
Evans, Dan'l Construction Co., Odd Fel-
lows' bldg
Eyermann, K., Jr. & Bro., 1216 S Grand av
Eyssell, M. Const. Co., Odd Fellows bldg
Farrell, Jas. Const. Co., 2108 N B'way
Fairback, Henry, 2550 N Grand av
Fehlig Construction Co., Theresa av &
Ferguson & Clark, 418 N 3d Hickory
Frein Masonry & Contrg. Co., 3817 Forest
Park blvd
*Fruin-Bambrick Construction Co., Chem-
ical bldg
*Fruin-Colnon Contracting Co., Merchants-
Laclede bldg
Gatlin, James G., De Menil bldg
Geisel Construction Co. (Sewer, Paving,
Bridges, Heavy Masonry, etc.), 620 Chest-
nut
Gerhard, E. C. Bldg. Co., Victoria bldg
Gillick Bros., 319 W Steins
Gilsonite Construction Co. (Concrete Work),
Wainwright bldg
Globe Construction Co., 721 Olive
Godfrey & Hirsch, Wainwright bldg
Goesse & Remmers, B. & C. Co., 805
Cass av
Graham Granitoid Co., Security bldg
Graner & Mahoney, 620 Chestnut
Granite Bituminous Paving Co., Pierce bldg
Grove, Louis H., Benoist bldg
Haeseler, A. H. Bldg. & Const. Co., Wain-
wright bldg
Hamilton, Chas. E., 202 N 9th
Hanick Quarry & Construction Co., Euclid &
Ashland av
Hannan & Hickory, Navarre bldg
Hartmann Bricklaying & Contr. Co., Odd
Fellows' bldg
Harvey-Burden Construction Co. (Concrete
Construction, etc.), Victoria bldg
Heman Construction Co. (Sewer & Public),
444 S Theresa av
Heman, H. F. (Sewer & Public), 721 Olive
Herman G. A. Const. Co., Holland bldg
Higgins Hauling & Paving Co., 12156 S 10th
*Hill-O'Meara Construction Co. (Sewer,
Paving, Waterworks & Masonry), Syndi-
cate Trust bldg
Hogg & Reid, Victoria bldg
Hinchman-Renton Const. Co., 211 N 7th
Hoffman Contracting Co., Globe-Democrat
bldg
Hoffman-Hogan Const. Co., 2712 Wyandotte
Hoosac Bldg. & Const. Co., 3015 Lucas av
Jenkins Construction Co., Columbia bldg
Jones, S. L. Bldg. Co., Mercantile bldg
Johnston, Philip G. & Co., 407 N 8th
Kellerman Contracting Co., Roe bldg

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Kennah, L. & Son, 3618 Clarence av
Lawson, G. H. & Son, 2011 McCausland av
Lester, W. H. Const. Co., Chemical bldg
McClure, R. P. Construction Co., 203 N 10th
McCormack, Charles B. (Builder), Columbia bldg
McCormack-Combs-Brainerd Const. Co., Columbia bldg
McCully Construction Co., 509 Chestnut
McKelvey Cons. Co. (General), 816 Olive
McMahan, Jno. F., Wainwright bldg
MacMahon, Jas. T., 1513 Farragut
Merrill Construction Co., Century bldg
Merserlau Construction Co., Chemical bldg
*Midland Erecting Co. (General), Syndicate
Milburn & White, Wright bldg bldg
Missouri Granite & Const Co., 3410 Gratiot av
*Moloney, Timothy (R. R. Grading, etc.), 2327 Dickson
*Morey-Faulhaber Const. Co., Chemical bldg
Morrison, R. W. Construction Co. (Large Builders), Liggett bldg
Mound City Const. Co., Lincoln Trust bldg
Mueller, J. Chas., 35 Herbert
Muir, Matthew W. (Builder), 816 Olive
Murch Bros. Construction Co., 816 Olive
*Myers Construction Co. (General), 421
Neier & Meng, 1039 Marion Olive
O'Reilly, Callahan & Given Contracting Co., 112 N 4th
Parker, E. C. (Eng. & Contr.), 308 S 8th
Parker-Kohn Engineering Co., 309 S 8th
Parker-Washington Co. (Eng. & Contracs.). 4500 Duncan av
Pelligreen Construction & Investment Co., 816 A Pine
Perkinson Bros. Construction Co. (Telford & Public), 3237 Carter av
Peters, H. L. & Son, 2758 Gravois av
Powell, Jas. L., Missouri Trust bldg
Prendergast, Geo. G. Construction Co., 721
*Prosser, C. W., Times Bldg Olive
Rabenau & Free, 5512 Easton av
Reeves, T. C., Odd Fellows' bldg
Rotermann Bldg. & Const. Co., 1943 St. Louis av
Reinschmidt-Haenni Const. Co., 906 Olive
Remmers, F. J. C. & Co., 805 Cass av
Riechers, J. P. & Son, 2815 St. Louis av
Riley, Wm. F. Constr. Co., Navarre bldg
Robinson, J. C. & Son, Lindell & Newstead
Robinson, S. H. R. & Son Contracting Co., Chemical bldg
Rosedale Contracting & Supply Co., Delmar & Gates av
Rowland, J. H. Granitoid Const. Co., 610 Chestnut
Ruecking Construction Co. (Public Work), 4036 Marine av
Rupp, Jos. F. Building & Contracting Co., 1901 E Warne av
Ruprecht, W. & F., 8011 S B'way
*Rust, Swift & Co.
St. Louis Cont. Co., Odd Fellows' bldg
Sanguinet Arch & Bldg. Co., Victoria bldg
Sanguinet, Geo. A. & Oscar N., 2738 Clara av
Sauerbrunn Const. Co. (General), 111 N 7th
Sebastian, Wm. Const. Co., 1806 St. Charles
Schumacher, W. A., Victoria bldg
*Scott, Jno. & Sons, Times bldg
Selden-Breck Construction Co., Fullerton
Shields, Walter, Columbia bldg bldg
Simpkins, Wm. H., 1313 Pine
Settle, J. C. & Co., Burlington bldg
Sinclair Quarry & Construction Co., Wainwright bldg
Skrainka Construction Co., Security bldg
Stansbury, J. A. & Bros. 816 Olive
Steiniger, Edw. A. Const. Co., 407 N 8th
STEWART, JAMES & CO. (Harbor, Marine & Heavy Buildings), New Nat'l Bank of Commerce bldg
Stewart & Hay Bldg. Co., Page & Hamilton av
Stites, Wm. M., Odd Fellows' bldg
Sullivan, Frank J., 617 Chestnut
*Sullivan, Michael J., 4291 Margaretta av
Sutherland, W. M., Building & Contracting Co., Victoria bldg
Taussig, A. J. Building & Contracting Co., Navarre bldg
Taxis-Harvey Construction Co. (Concrete Construction, etc.), Victoria bldg
*Thompson, J. W. (Bridge Masonry, etc.), Wainwright bldg
Tower Grove Quarry & Construction Co., 5927 Fyler av
Turner, Jno. B., 620 Chestnut
Unit Construction Co., Liggett bldg
*Van Sant, Robert L. (Eng. & Contractor), 421 Olive
Vollmer, J. H. & Son, 3924 N 20th
Vulcan Construction Co., Liggett bldg
Wade Bros. Construction Co. (General), 2272 Old Manchester rd
Wagner, E. L. Const. Co., Victoria bldg
Wall Bros., 9th & Victor
Ward, Edw. J. (Builder), 721 Olive
Ward, T. J. Constn. Co., 924 N 6th
Ware, J. A. Construction Co., 509 Chestnut
Watson, C. W. Const. Co., Navarre bldg
Webb-Kunze Construction Co. (Grading, etc.), Fullerton bldg
Wells, H. P., Victoria bldg
Westlake Construction Co., 717 Locust
Wiederholdt Constn. Co., New Bank of Commerce bldg
Wilson, J. W. & Son, Odd Fellows' bldg
Wright, L. B. Construction Co., Chemical
Wise, J. H., Victoria bldg bldg
Withrow, Roe E., Chemical bldg
Wycoff, Rob't (Sewer, etc.), 2615 Rutger
Zbaren Const. Co., Victoria bldg
Ziegelmeyer & Suter, 7300 Minnesota
Zimmermann Construction Co., Wainwright bldg

## MONTANA.

BUTTE—Walch, Wm. E.
GREAT FALLS—Jarl, C. O.
Lease & Richards
Maxwell, Wm. H. (Bldrs., etc.)
Ness, J. O.
Skinner, Robert
HELENA—Dryburgh, John
Wagner, Edward
LIVINGSTON—Beley, Frank
Wolcott, H. J.
MILES CITY—Northwestern Building Co.
MISSOULA—Harrington, J. F.
Montana Construction & Supply Co. (Bldrs., etc.)
Oleson & Johnson (Bldrs., etc.) etc.)
WACO—Sandeen, C. E. (Engr. & Contr.)

## NEBRASKA.

BEATRICE—*Kilpatrick Bros.
Kilpatrick Bros Co.
Kilpatrick Bros. & Collins
LINCOLN—Assenmacher, W. J. & Co.
Birchard, G. H.
Harrison, T. P.
Hutton, A. H.
Jensen, Louis
Lanz & Browitt
Mayne, F. K.
Olson & Lawrence
Shaul, Geo. A.
OMAHA—Ahren, Wm., 3015 Leavenworth
Canton Bridge Co. (Bridges) Paxton blk
Balfe, T. F. (Sewer), 167 Howard
Butke, Robt., Paxton blk
Collins, G. J. S., Bee bldg
Creedon, P. J. & Sons, 45th & Dodge
Deverell, W. P., Ramge bldg
Fanning, C. E. (Paving), Bee bldg
Flesher, H. A. (Buuiuluding), 915 N 22d
*General Construction Co. (Grading, Public Works, etc.), Rainge bldg
Gould, F. P. & Son, 632 Paxton blk
Grove-Wharton Const. Co., N. Y. Life bldg
Hall, E. C. (Building & General), 2516 Cumming
Hamilton, R. P. & E. O. (General), Bee bldg
Harte, J. H. (General), 1609 Webster
Henderson, Wm. & Son (Bldg. & Gen'l), 3524 Franklin
Herd, Thos., N. Y. Life, bldg
Jobst, B. J., Paxton blk
Katz-Craig Construction Co. (Sewers, etc.), Brandeis bldg
*Lamoreaux, J. J., Old U. S. Nat'l blk bldg
*Lamoreaux & Peterson, Old U. S. Nat'l blk bldg
Lee, G. L. (Building & General), 913 N 21st
McWilliams-Chalmer Co., Paxton blk
McGowan & Jacobberger, N. Y. Life Bldg
McKay & Cathroe, Paxton blk
Murphy, H. (Municipal Work, etc.), Bee bldg
Newman & Johnson, N. Y. Life bldg
Parsons & Keine, New York Life bldg
Partridge, C. W., Paxton blk
Phelan, Shinley & Callahan
Redgwicke, Wm., N. Y. Life bldg
Soderberg, Peter, 203 Castellar
Strehlow, R. C., N. Y. Life bldg
Van Horn, I. L. (Bldg, etc.), Ida & 48th
Van Court, E. D., 3877 Leavenworth
Western Bridge & Construction Co. (Bridges), Bee bldg
*Wood, Bancroft & Doty (Grading), First
ORLEANS—*Dunlay Bros. Nat'l B'k bldg
SOUTH OMAHA—Fluor, Killias (Building & Miller, Edw (Grading) General)
National Construction Co.
TECUMSEH—Inter-Mountain Bridge & Construction Co. (Street, Road, etc.)

## NEVADA.

TONOPAH—McLean & McSweeney
WINNEMUCCA—Maney Bros. & Co.

## NEW HAMPSHIRE.

CONCORD—Fellows, Chas. L. & Co. (Grading, Sargent, Walter H. etc.)
EPPING—Manchester, R. E., & Mfg. Co.
FRANKLIN—Dresser, John W.
MANCHESTER—Mendell, P. H. Co.
MEREDITH—Clark, Geo. H. & Co.
NASHUA—Osgood Cons. Co. (Waterworks, Sewer, etc.)
PORTSMOUTH—Holmes, Joseph R.
Trefethen, E. W. (Sewer, etc.)

## NEW JERSEY.

ARLINGTON—Salmond Bros. Co.
ATLANTIC CITY—Atlantic Const. & Supply Co.
Atlantic Excavating Co. (Excavating, etc.)
Beaumont, Wilbert (Building, etc.)
Hampton, Bros. (Building)
Johnson, David C. (Building, etc.)
Lane Paving Co. (Paving)
Lee Edward S.
Mathis, J. & Son
Parsons & Tilton
Risley, N. & Sons (Harbor & Public)
Scull & Pedrick
Thompson & Stiles (Building, etc.)
United Paving Co. (Paving & General)
BAYONNE—Brady Bros. (Large)
Herbert, Thos. & Son
O'Leary, J. & Sons
Smith, Augustus (Eng. & Contr.)
Steers, Henry
BEACHHAVEN—Butter, Wm. L.
BLOOMFIELD—Hedden Iron Construction Co.
BRIDGETON—Grosscup & Sons
Lupton, Albert
Sharp, Leander
BURLINGTON—Jobes, Leander J.
CAMDEN—Sayre, C. H. (Cement Work, etc.)
†Sweeten, B. F. & Son (Railroad, Paving, Ward, Aaron Public, etc.)
*Young, Harry (R. R. Macadam Roads, Concrete Works, etc.)
CLIFFSIDE PARK—Di Sciascio
Scioli, N.
CLOSTER—Taveniere & Johnson
EAST NEWARK—Van Kueren & Son
EAST ORANGE—Apgar & Co.
Gunn, John & Son
Davis, Jos.
Loprete, Michael
Smith, P. H.
ELIZABETH—Callahan, T. Foster (Sewer, Paving, etc.)
Clifford, Wm. & Sons Co. (Building)
Craig, Chas. A. (General)
Faughnan, Patrick (Sewer, Macadam etc.)
Flocken, Chas. (Building & Gen'l)
Lammerding-Devine Co. (General)
McCloud, Wm. J. & Co. (General)
New Jersey Dock & Bridge Building Co. (Harbor Improvements, etc.)
Rhodes & Manel (Docks)
Viscount, Thos.
Wade Bros. (Excavating & Grading)
ENGLEWOOD—Brucker, Charles
Fitschen, J. F. (Building)
Smith & Marsh (Concrete Construction)
GRANTWOOD—Scioli, Nicoli
HACKENSACK—Abraham, Ernest
Humphrey, E. C. & Co.
Whyte, Wm. H.
HADDONFIELD—Bell Bros. (Engrs. & Contrs.)
HARRISON—Harper, David (Roads, etc.)
Steers, Henry Co. (Engrs. & Contrs.)
HOBOKEN—Catello, Michael
Linder, Philip (Excavating, etc.)
Sanford, A. F. Co., Second National Bank
Tierney, J. C. bldg
Tierney, Myles
Waddington, Robert & Son (Street & Public)
Whalen, James
Whan, Alexander

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HOLLY BEACH—Mershon, Frank
Norton, Chas. A. (Building)
JERSEY CITY—Baker, Wm. (Sewer, Paving, etc.), 437 South
Brown, Leslie A. (Builder & General), 379 Fairmount av
Byrne, Henry (Public Work), 392 Mercer
Calumet Construction Co., Union
Carrington Construction Co., Prior
Cement Paving & Const. Co., 1 Montgomery
Connolly, M. T. Contracting Co. (Curbing & Public), Newark av
Connelly, P. (General), 13 E Hamilton pl
Cullen Contracting Co., 761 Montgomery
Gavin & Dorit, 273 Grand
Gwens & Decesero, 111 Brunswick
Grosklaus, John & Son, 299 Old Bergen rd
Harrington, T. & Sons, 558 Montgomery
Haukin Construction Co., 169 Monticello av
Henry & McGivney, 15 Exchange pl
Holmes & Cogan, 96 Garfield av
Hudson Construction Co., 452 Montgomery
Keiss, G. (Excavating, etc.), 17 Rutger av
King, Rice & Ganey, 368 Hoboken av
Lesher & Wagner, 142 Pavonia
Nolan, John, 108 Bergen av
O'Reilly Bros., 148 Ocean av
Palisade Construction Co., 15 Exch. pl.
Robertson, William & Son, 15 Exchange pl
*Ross, P. Sanford (River & Harbor), 277 Washington
Rowland, J. T. & Son, 197 1st
Schalack, Wm. (Cement Work), 395 Wayne
Shannon, J. H. & R. Co., 538 Bergen av.
Stillman, F. M. Co., 26 Echange pl
Tumulty Bros., 59 Brunswick
Van Keuren & Son, Grand c Prior
KEARNY—(See Arlington)
LONG BRANCH—Campbell, Jas.
Hughes, R. H. (Building)
Melee, Owen J. (Bridges, Docks, etc.)
Weber, August (Building)
Woolley, Geo. & Co. (Dock, General, etc.)
MONTCLAIR—Gibbs, Fred W.
Osborne & Marsellis Co. (Public Work & Macadam)
Wormser, Goodman Construction Co.
MOORESTOWN—French, Walter S. (Sewer, etc.)
Rogers, J. S. Co.
MORRISTOWN—Grupelli, Eney
New Jersey Engineering & Construction Co.
Rogers, J. S. Co.
NETCONG—*Burke, T. (R. R. etc.)
Galla Bros.
Waltz & Reece Construction Co.
NEWARK—American Concrete Steel Co. (Concrete Work), 11 Clinton
Baer, H. & Co. (Cement Construction), 842 S 19th
Barber Asphalt Paving Co. (Paving, etc.), 156 Market
Buckley, L. J. & Co., 881 Broad
Caruso, Pasquale, 14 Bedford
**Conway, James (Sewer, etc.), 491 Central av**
**Cooper, Chas. S., 254 Clinton av**
**Dorrity, John, 168 Ridge**
**Duckworth - Crawford Co. (Excavating & Road, etc.), 111 High**
Gibbs & Gibbs, 131 S 12th
**Gordon, W. R., 124 S. 9th**
**Hampton, R. & Co. (Paving, etc.), 138 Norfolk**
**Handlowitch, J. (Cement Construction), 579 S. 19th**
**Harrison Construction Co. (Public Work), 837 Broad**
**Hedden, V. J. Sons Co. (Builders & General), 421 Ogden**
**Heller, John W. (Engineer & Contractor), 738 Broad**
Ingling Construction Co., 222 Washington
Isett, W. E. & Co. (Engrs. & Contrs.), 244 Fabyan pl
**Jackson, Wm. & Son, 113 Vesey**
**Jersey Paving Corp., 127 Frelinghuysen av**
**Milmoe, Alex. J., 83 Littleton av**
**Milone Construction Co., 800 Broad**
**Modern Paving Co., 800 Broad**
**Modern Roofing & Paving Co., 238 Wash'n**
National Concrete Const. Co., 800 Broad
*Nelson, I. R. & Co. (Street Railway Con-
New Jersey Cement Construction Co., 335 Newark
Paving Co. 133 1st 6th av
**Peter, Jacob, 127 Frelinghuysen av**
**Pitts, Chas. L. Co. (Paving), 58 E. Park**
**Robinson, Jas. E. (Contractor & Engineer), 274 South**
**Robinson, Jos. A. (Paving), 87 Madison**
**Russell-Robinson Co. (Builders & General), 109 Frelinghuysen av**
Sandford, A. E. Co., ft. 4th av
**Shanley, J. F. Co., Union bldg**
**Shanley's, B. M. Sons Co., 325 Badger av**
**Standard Paving Co., 45 Clinton**
**Stillman, F. M. Co., 9 Clinton**
**Trinity Construction Co. (Builders & General), 800 Broad**
**Vanderhof, Peter & Sons Co. (Masonry, etc), 285 Broad**
**Van Keuren & Son, Passaic av**
**Waldron, E. M. & Co. (Builders & General), 84 S. 6th**
Wallace, R. C. & Co., 18 Edwin pl
Whitman, J. C., 157 Summer av
NEW BRUNSWICK—Oliver, H. V., Contracting Co.
Sebalt, Conrad
ORANGE—Dexheimer, R. & Son
Frahm-Mead Concrete Co.
Kearns, Patrick
Moloney Contracting Co.
†Wright & Lindsley
PASSAIC—O'Leary, J. J. Co.
Thompson & Stiles
Watterson & Smith (Stone Contrs. etc.)
PATERSON—Ferguson, Jno. W. Co. (Builders, etc.)
Henry, David Bldg. Co. (Engrs. & Contrs.)
*†Lee, Jno. R. (Railroad & Street)
McKiernan & Bergin
Platt, Wm. L. Construction Co.
Puglia, Frank
Sharpe, Joseph Construction Co.
Steele & Hooper (Masons, Bldrs. & Gen'l)
PERTH AMBOY—Diedrichsen Christ.
Graham & McKean
Hoagland, G. W.
Meagher & Smith
Mercer, Geo. W. Construction Co.
PHILIPSBURG—Mutchler, S. B. & Co.
PLAINFIELD—Milne, Alexander
Smalley, A. L.
POMPTON—Colfax & Steele
PRINCETOWN—McCarthy & Sons Co.
Mathews, Wm. R.
Reardon Co. (The)
RAHWAY—Lamphear, Henry L.
Weldon Contracting Co.
RED BANK—Burd, Chas. E.
Davis, O. E. (Bldrs. & General)
Hercules Construction Co.
Matthews, Ambrose & Co.
Monmouth Contracting Co.
RIDGEFIELD—Blood, Chas. F. (Engr. & Edsall & Best Contr.)
Heisenbuttle, C. (Excavating, Grading, etc.)
SEABRIGHT—Van Brunt, Benj. A.
SOMERVILLE—Frech & Co.
Hardgrove, Wm. (Macadam & Public)
SOUTH AMBOY—Thomas & Welsh (Roads, etc.)
SPRING LAKE—Braly, Jno. M. (Engrs. & Miller, Jno. R. Contr.)
Smith, Wm. J.
TOWN OF UNION—Bertrand, George
TRENTON—Bugbee, Newton, A. K.
Hurley, Jno. H. (Sewer, etc.)
Lawton, Lewis & Son (Masonry, Kiln Bldrs., etc.)
McGovern Contracting Co.
Morris. W. J. & J. H. (Bldrs. & Gen'l)
Nelson. Alfred B. (R. R. Grading & Masonry)
Prior & Brock
Slack, Walter C.
WEEHAWKEN—Weehawken Contracting Co.
WEST HOBOKEN—Murphy, Jno. F. (Excavating, etc.)
Scarnechio, Sam'l
WEST ORANGE—Macintosh, Walter S.
O'Rourke, John
WOODBURY—Thomas, David & Co. (Engineers & Contrs.)

## NEW MEXICO.

ALBUQUERQUE—Anson, A. W.
McQuade, J. W. (Building, etc.)

## NEW YORK.

ALBANY—Collins Bros.
Dollard, M. F.
Dumary, T. Henry (Municipal)
Elinore & Hamilton Contracting Co.
Holler & Shepard
Knuth & Green
Lebius Building Co.
Malcolm, James H.
Mulberry Bros. (Street & Public)
Pasquini, Attillio( General)
Sewall, Robt. P. & Sons
United Cons. Co.
AUBURN—Barnes, W. B. & Co.
Brayer, Bros.
Cayuga Construction Co.
Defendorf, Chas. J.
Fenno, Edward K.
BINGHAMPTON—Crary Construction Co.
Ford, M. I.
Osborn, A. D.
Stephens, A. E. & Co.
Willey, C. A.
Willey, L.
BROCKPORT—Cleveland & Sons Co.
BUFFALO—Beck, Herman, 465 Riley
Boseck, Otto M., 99 Mariemont av
Brown, Thos. Contracting Co. (Excavating, etc., 1135 Niagara
Buffalo Dredging Co. (Dredging, Sewer, etc.), D. S. Morgan bldg
Burgard, Henry P. Co. (Sewer & Public), 275 Lathrop
Burger, R. E. (Bldg, etc.), 133 Lexington
Burke, Wm. H. & Bro., 375 S Park
Busch & Percival (Engineers & Contrs.)
Byers, J. N. (Bldg, etc.), 461 Linwood av
Carter, Geo. W. & Sons Co. (Bldrs., Masonry, etc.), Builders Ex
*†Chapman, A. F. & Co. (General & Electric R'y, Track & Overh ad Construction), 20 Breckenridge
Cohen, Frank L. (Paving), 49 Niagara
Crooker, B. I. Co., Builders Exchange
Dark & Co. (Sewer, etc.), 654 Main
Dietrich, John, 7 Sanford
Dunfee Construction Co., 458 Ellicott sq
Durolithic Co., The, Ellicott sq
Dwyer, J. W. & Son, Ellicott sq
*Eastern Concrete Steel Co. (Reinforced Work, Sewers, etc.), D. S. Morgan bldg
Elliott, Geo. F., 1888 Niagara
Erie Building Co., Ellicott sq
Essex Construction Co., Prudential bldg
Foster & Glidden Engineering Co., 730 Main
Frank, Peter H. (Masonery), 229 Depew av
Gail, Harry, Mutual Life bldg
Gibbs, John W. & Bro., D. S. Morgan bldg
Gipp, Louis H., Construction Co., D. S. Morgan bldg
Grain Storage Construction Co. (Grain & Cold Storage, etc.), Mutual Life bldg
*Grattan & Lattimer, Ft. of Main
Great Lakes Construction Co., Chamber of Commerce bldg
Hankin, Robt. F., 263 Riley
Herner, Geo. A. (Bldg., etc.), 148 Madison
Horton, D. E. Construction Co. (Pile Driving, Dock Crib & Trestle Bldrs,etc.)
Jepson, Mason & Co., Erie County B'k bldg
Johnson, John E. 741 Abbott Rd
Lanctot, H. H. & Sons (Bldg., etc.), Ellicott sq
Lathrop, Shea & Henwood Co., Ellicott sq
Leh, Jeremiah H. (Pile Driving, etc.), 274 Massachusetts av
**Lester, W. H., 1154 Seneca**
Maltby, Geo. W. & Sons, 21 Maryland
Miller, John (Paving, etc.), 802 Ellicott sq
Monarch Engineering Co., Chamber of Commerce bldg
Moore, Geo. W. (Sewer & Public), 177 Elk
Morris & Allan (General), Builders Ex
Mosier & Summers (General), 1266 Seneca
Mumm, Fred. J., 174 Best
Niagara Construction Co., Fidelity bldg
Parks, Geo. & Sons, 217 15th
Rappich & Culliton (Excavating, etc.), 2326 Main
Schutrum, C. L., 152 Woodlawn av
Sherrill Contracting Co., Morgan bldg
Spire, Benj. F. (Paving, Sewer, etc.), Ellicott sq bldg
*Stabell, Jos. F. Co. (Sewers, Public & R. R. Work), 1127 Niagara
Stokes, William & Sons (General, Building, etc.), Brisbane bldg
Thomas, Jon. W., 26 Columbus pl
Tilden. J. H. Co. (General), 12 Henry
CANANDAIGUA—Robertson. Chas. F.
CATSKILL—Holdridge, G. W. & Son (Street)
CLYDE—Crowell-Sherman Stalter Co.
COHOES—Neary Bros. Construction Co.
CORNING—Bradley, J. C.
CORNWALL—*Harry, S. J. Co. (R. R. Shafts, Tunnels, etc.)
Taylor, Harvey R. (Bldr. & General)
CORTLAND—Bull, J. Seaman
Oothoudt, Myron
DUNKIRK—Hamilton, S. M. Co. (General)
Hequembourg. Chas. G. (Engr. & Contr.)
Meister Contracting Co.
ELMIRA—Clark, James H.
Compton, W. R. Realty & Bldg. Co. (Inc.)
*Costello & Naggle (Paving, Sewer, etc.)
McGreevy, McGuigen & Baum Const. Co.
FREDONIA—Sly & Coddington
Smith, Thos. V. (Engr. & Contr.)

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GENEVA—Dove, Wm. G.
Finn, Jas. E.
Henson, R. W.
Persons, S. F. & Co.
Turner, Chas. E.
GLENS FALLS—Finch-Anderson Co. (Road)
Kasson Construction Co.
Linehan & Burnham Co.
Reardon & Byrne
Reilley & Acker
Rheinlander, R. H.
GLOVERSVILLE—Banker, A. M. (Paving, etc.)
GREENPORT—Greenport Basin & Construc-
Reeves, W. H. & Co. tion Co. (Large)
HERKIMER—Stroble, Daniel F.
HORNELL—Tucker, Seth L.
HUDSON—Hester, Dennis
Walsh-Kahl Construction Co. (General)
IRVINGTON—Dinkle & Jewell
ITHACA—Conley, Patrick D.
Driscoll Bros & Co.
JAMESTOWN—Johnson & Prather
Mahoney, John (Paving, Sewer)
Mahoney, Thomas (Paving, Sewer)
Swanson, Charles (Public Work)
KINGSTON—Campbell & Dempsey (Public
Work & Masonry)
De Nallo & Klingberg
LAWRENCE—Smith, John H.
LITTLE FALLS—Berrigan Contracting Co.
Eagan, Chas. (General)
Hallinan Bros. (General)
McCaghey, P. B. Co.
LOCKPORT—Le Valley, Frank J. (Sewer, Ex-
Moon, John cavating, etc.)
Stainthorpe, Charles N. & Co.
MEDINA—Slack & Ellis
MOUNT VERNON—*Flick, J. H. Construc-
Nordone, Frank tion Co. (R. R., etc.)
NEWARK—Schuman & Buscroff
NEWBURGH—Harper, Jova & Kehoe
Moshier, Geo.
Newburgh Planing Mill Co.
Parrott, Wm. (Dock & River)
Wilson, J. D.
NEW ROCHELLE—Galgano Co.
Girardi, Dominick
Pioneer Contracting Co.
Smith, Thomas & Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Armstrong, Henry, Malbone c
Rogers av
Borough Construction Co., 186 Remsen
Bracken-McAveney Co., ft 6th
Bulkley, Washington, 94 Emerson pl
Carlin, F. W. Construction Co. (Builders,
etc.), 2d av, Bay Ridge
Carlin, P. J. Construction Co., Park pl
Cashman, John J., 44 Court
Constant, Peter J., 422½ Gates av
Cranford, Charles, 186 Remsen
Cranford Co., 52 9th
Creem, Daniel J., 910 St. Marks av
Cronin, Barth S. (Dock & Public Work),
573 Clinton
Cunningham, Frank (Excavating, etc.), 24
Emmett
Dady, M. J. Co. (Public Work), 350 Ful-
Desmond, Frank, 447 Columbia ton
Desmond, Timothy, 71 Loraine
Donlon Contracting Co., 84 B'way
Gallagher, Frank J., 490 Park pl
Haley & Keegan, 50 Dobbin
Hart, Charles (Public Work), 617 Degraw
Holmes, James H., 367 Fulton
Jenkins, Theo. S., E 22nd
Kelly, Thos., East New York av
Kordes, Hy. E., 243 Moffat
McCormick, Thos., 810 Lincoln rd
McKeever, Edw. J. & S. W. (Public Work),
Meeker av. & Newton ck
McNamee, John (Public Work), 16 Court
MacArthur, Jas. (Bldrs. & Gen'l), 22 Or-
mond pl
Maillie, Jno. F. (Paving & Public), 1253
Prospect pl
Monahan, John E., 496 Manhattan av
Murray, P. J. & Co. (Sewer, Large), 215
Montague
Newman, Henry, 215 Montague av
Norton & Gorman (Public Work), 301 Doug-
lass
Rapid Transit Subway Construction Co.,
200 Joralemon
Robinson, J. M. Contracting Co., 44 Court
Ryan, N. Co., 489 Smith
Schubert, Bernard, 155 Jamaica av
Seaboard Construction Co., 639 Gates av
Simpson, Wm., 14 Emerson pl
Strype, Richaard, 40 Coffey
Thatcher, Jno. & Son (Builders, etc.), 54
Park av
Thompson, Wm. R., 704 Lafayette av
Walsh, Frank M., 374 Hamilton av
Wilson & Baillie Mfg. Co., 26 Court

### Boroughs of Manhattan & Bronx.

NEW YORK—Aberdeen Co. ("Fireco," Con-
crete Roads & Pavements), 20 Broad
Airmor Co., 141 B'way
Allboro Contracting Co., 21 Park row
Alliegro & Spallone Const. Co., Morris av
Altieri, Jerry (Excavating, etc.), 1956
Crotona Parkway
Alton, L. T. Const. Co., 111 B'way
Ambursen Hydraulic Const. Co., 165 B'way
American Cement Eng. Co., 315 5th av
American Contracting Co., 80 William
Andrews Engineering Co., 120 Liberty
*Arthur, Alex. A., 2 Rector
Asphalt Construction Co. (Paving, etc.),
137th & Madison av
Atlanta Contracting Co., 230 E 42d
Atlantic Dredging Co., 15 Whitehall
Atlantic, Gulf & Pacific Co. (Dredging),
17 Park row
Atlantic & Cairo Const. Co., 111 B'way
Atwell Contr. & Const. Co., 15 Park row
Auburn Construction Co., 35 Wall
Baird, Matthew Contracting Co. (Public
Work), 433 E 92d
Baker-McKean Co., 1165 B'way
†Beacon Contracting & Construction Co.
(Light & Power Plants), 280 B'way
Beaver Construction Co., 26 Exchange pl
Beemer, H. J. Co., 42 B'way
Bell-Caswell Const. Co., 47 W 34th
Bellman & Sanford (Electric, Steam, Gas
& Water Power Plants), 149 B'way
Bergen & Lindeman, 170 B'way
Berlin Construction Co., 220 B'way
Bernhart, W. T., 2d av. & 213th
Bishop, J. W. Co. (Bldg., etc.), 347 5th av
Blackall & Baldwin Co., 39 Cortlandt
Blake Contracting Co., 115 B'way
Blumenauer, Wm., 373 E 151st
Boardman, W. H. Co., 30 Church
Borgia Contracting Co., 1133 B'way
Bouker Contracting Co., 24 State
Boyd & Selfrige, 949 B'way
Bradley Contracting Co., 1 Madison av.
Bradley, Gaffney, Steers Co., 1 Madison av
Bradley, W. & Son (Public Work), 90 West
Breen, Michael, Jerome av & E 167th
Breuchaud, Jules Constr. Co., 290 B'way
Brettholz-Krumholz Const. Co., 302 B'way
Brill Contracting Co., 570 E 191st
Brook Construction Co., 60 Liberty
Brooke, B. H. & Co., 50 Church
Brooks', Wm. Son Co. (Excavating, etc.),
615 W 49th
Brown, Elliot C. Co., 27 William
Brown Excavating Co., 99 W 104th
Brown, Isaac T. (Dredging, River & Har-
bo), 15 Whitehall
Brown-Walston, H. Const. Co., 45 Wall
Bryson, Thos. B., 165 Broadway
Buckley, Thos. J. Const. Co., 103 Park av
Bunting-Bull Co. (Heavy Masonry), 1 Madi-
son av
Burke, Luke A. & Sons (Builders & Gen-
eral), 25 W 42d
Burnett Contracting Co., 77 Irving pl
Burnett, Eng. & Const. Co., 525 W 142d
Butler Bros. Construction Co., 1170 B'way
Canavan Bros. Co., 518 W 56th
Carlin, P. J. Construction Co. (Builders &
General Contractors), 16 E 23d
Carolina Const. Corporation, 115 B'way
Casey-O'Brien Co., 136 Liberty
Castleton Const. Co., 128 B'way
Catoggio Bros., 63 Grand
Cauldwell, Wingate Co., 381 4th av
Cavanaugh, Jos. Cont. Co., 347 5th av
Centurian Concrete Steel Co. (Reinforced
Concrete Work), 1182 B'way
Central Contracting Co., 1279 2d av
Century Eng. & Const. Co., 140 Nassau
Chapman, F. H. Contracting Co., 111 B'way
Chester Constructing Co., 3025 3rd av
Chilian Contracting Co., 43 Exchange pl
City & County Contracting Co., 63 Beaver
Clark, Jas. A., 464 Canal
*Clark & Co. (Public Work, Railroad, etc.)
225 5th av
Clarke Construction Co., 39 Cortlandt
Classon Lignum Co., 347 5th av
Cliff Construction Co., Academy & B'way
Clinton Construction Co., 198 B'way
Cluse, Robt. J., 3rd av & 148th
Cobb Construction Co., 47 Liberty
Cody, J. W. Shoring & Contracting Co.,
Cole Bros., 108 Fulton 200 W 91st
Colletti, Stephan & Co., 331 E 22nd
Collins, Chas. W. (Sewer & Public), W
225 & B'way
Colonial Construction Co., 516 E 72nd
Colonial Eng. & Cont. Co., 1 Madison av
Colorado Gold Dredging Co., 42 B'way
Columbian Engineering Co., 103 Park av
Colwell, Hugh, 395 Brook av
Comerma, C., 1183 B'way
†Commercial Construction Co., 24 State
Commonwealth Construction Co., Times
Comstock, L. K. & Co., 50 Church bldg
Concourse Construction Co., 2065 Ryder av
Concrete Steel Co. (Reinforced Concrete),
29 B'way
Connolly, Theodore, 355 Rivington
Conroy Bros. (Inc.), 217 W 125th
Cooper & Evans, 220 B'way
Corrigan & Gorman Const. Co., 140 W 42d
Consolidated Telegraph & Electrical Sub-
way Co. (Subway, etc), 54 Lafayette
Construction Service Co. (Engrs. & Contrs.),
15 S William
Contessa, Vito & Co., 226 E 121st
Cornell, J. N. H. & Co., 29 B'way
Cotthaus, Harry W., 500 Fifth av
Coussiart & Co., 1123 B'way
Cowen, Chas. A. & Co. (Builders & Gen-
eral), 1123 B'way
Crane, W. F. & Co., 149 B'way
Cranston General Cont. Co., 3608 3d av
Crescent Improvement Co., 12 E 23rd
Cramp & Co. (Inc.), 23 E 25th
*Crimmins, Thos. Contracting Co. (Munici-
pal & Public), 444 E 69th
Crockett, W. & W. F., 306 E 59th
Crow, Wm. L. Const. Co., 103 Park av
Cuban Eng. & Contr. Co., 17 W 42d
Cuff, Wm. (Excavations), 426 E. 104th
Culver & Steinacher, 150 Nassau
Cunningham, T. Co. (Sewer & Public), 608
*Cuozzo, Donato, 17 Park row E 15th
Curtin-Ruggles Co., 39 Cortlandt
Dailey & Ivins, 21 Park row
Daniels, Oscar Co., 38 Park row
Danton Contr. & Construction Co., 71 B'way
Darling, Oscar (Eng. & Contr.), 15 Park
Dawson & Archer, 150 5th av row
Deeves, Richard & Son, 304 E 20th
*†Degnon Contracting Co. (Public & Ma-
rine), 60 Wall
Deisler & Stevenson (Masons & General),
105 W 40th
Delaney-Roberts Co., 103 Park av
Dempsey, Chas. J., 1520 3d av
Dempsey, Jas., 502 E 72nd
Dennis, Thos. J., 512 W 15th
Devlin, Jno. B., 300 Lenox av
Dial, Edw. C. (Engr. & Contr.), 15 Park
Dickson, Alex Co., 34 W 33d row
Dickson & Turnbull, 421 W 54th
Dillman Fireproof Const. Co., 1133 B'way
Dillon, Thos. & Sons, 1032 3rd av
Dolan, Jno. F. Contracting Co., 50 Church
Dollan, Jos. & Co., 439 E 107th
Donovan, John F., 48 W 73d
Donovan, Jno. J., 203 B'way
Donovan, R. J. Co., 121 W 53d
Doran, Chas. L. Contr. Co., 1015 Waldon av
Dorgan Bros., 413 E 65th
Dowd, Michael J., 217 W 125th
Doyle, Andrew T., Grand av
Drennan, Wm., B'way & 210th
Duffy, James J., 533 W 24th
Duffy, Jno. C., 197 Worth
Duggan, E. J. Co., 1133 B'way
Dunn, Bartholomew (Sewer & Public), 444
E 68th
Dunbar Contracting Co., 444 E 68th
Dwyer & Carey, 926 E 167th
Eidlitz, Marc & Son (Builders), 489 5th av
Elgar's, James Sons, 19 Lexington av
Ellison Construction Co., 1499 B'way
Empire City Subway Co. (Ltd.) (Subway,
etc.), 422 W 58th
Empire City Contr. Co., 63 Park row
Exner, Jaul J. (General Building & Con-
struction Co. (Inc.) (Builders, etc.).
55 E 20th
Falk, Frank Contracting Co., 2371 Old
B'way
Farrell, E. J. & Co., 161 W 125th
Farrell, Edward, 2105 7th av
*Farrell, Hopper & Co. (Masonry, R. R.
Tunnelling, Dock, Bridge, etc.), 2105 7th
Federal Engineering Co., 42 B'way av
Feldmann, A. Const. Co., 170 B'way

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*Ferguson Contracting Co. (Railroad & Public), 50 Church
Ferguson, Jno. W., 253 B'way
Figliuolo, J., 719 Union av
Finegan & Walterhum, 138 E 59th
Fissell, Wm. H. & Co. (Builders, etc.), 1133 B'way
Fitzgerald, W. J. (Paving), 547 W 45th
Fitzpatrick & Coombs (Inc.), 1123 B'way
Fleischmann Bros. Co., 507 5th av
Fleischmann Realty & Construction Co., Fleming, John, 38 Park row 507 5th av
FLEMING & CO. (Stable & Paving), 253 B'way. (See adv. index, end of book)
Fogarty, Patrick & Son, 20 W 145th
Foundation Co. (Engineers & Contractors, Caisson & Bridge Foundations, Sea Walls, Excavations, Tunnels, Mine Shafts, etc.), Fowler, J. D., 330 5th av 115 B'way
Fox, Henry E., 125th
Fox-Hennessy Co., 81 E 125th
Foye-Fox Co., 20 Broad
Foye-Root Co., 20 Broad
Francini, Caesar, 1 Madison av
Franklin Contracting Co., 1 Hudson
Fraser-Brace & Co., 47 W 34th
Freiwald, Martin J., 510 E 19th
Fuller, G. A. Co. (Builders, etc.), 111 B'way
Furlong-Tompkins Co., 81 E 125th
Gabriel Bros. Const. Co., 135 B'way
Gallick, Jos., 402 E 88th
Galligan, Thomas, 609 E 18th
*Gamble, James Contract Co. (Canal, Gas House, R R & Public), 15 William
Garry, Jos. & Son (Public Work), 418 E 25th
Garvey, Lawrence, 513 W 28th
Garvey Bros., 1911 White Plains rd
Gehlen, Chas. W. (Inc.), 203 E 63d
General Concrete Const. Co., 30 Church
*General Contracting & Engineering Co. (Railroads, Piers, Docks, Bulkheads & Harbor Improvements), 29 B'way
Germansky Construction Co., 2310 Belmont av
Gest, Guy M., 277 B'way
Giant Const. Co., 217 W 125th
Gilbreth, Frank B. (Large), 60 B'way
Gill, Jno. & Sons, 12 W 31st
*Gillespie, T. A. Co. (Railroad, Public & Waterworks), 50 Church
Gillies, Campell & Co., 1 Madison av
Ginsberg & Rosenthal, 111 Bleecker
Glaser, I. Henry Cont. Co., 124 W B'way
Glen Eng. Construction Co., 156 5th av
Glyndon Contracting Co., 2 Rector
Goble, Frank M., 1 E 42d
Godwin Construction Co. (Harbor Improvements), 30 Church
Goldsmith, Dudley Co., 126 Liberty
Goodman, Contracting Co. (Water, Gas & Drainage), 257 E. 133d
Gordon & Stein Contr. Co., 1627 Park av
Gore, Frank E., 280 B'way
Gorman, Bernard J., 140 W 42d
Grading Contracting Co., 13 Park row
Grant & McCloskey, 1123 B'way
Gray, C. L. Construction Co., 55 Liberty
Greenberg & Bartlett, 1 Madison av
Greenwald & Pollak, 171 B'way
*Guarantee Construction Co. (General & Railroad), 90 West
Guidone & Galardi, 162 E 23d
Haas & Freid, 90 E 10th
Haas & Millord, 110 W 34th
Hady & Wight, 45 W 34th
Haggerty Contracting Co., Davidson av & Fordham rd
Hall, A. C. & H. M. Realty Co., 2875 B'way
Halligan & Son (Excavating), 549 W 40th
Hammond & Sloane (Ic.), 16 Exchange pl
Handy Bros., 2342 Morris av
Hanover Contracting Co., 217 W 115th
Harbater & Silk, 117 7th
Harlem River Contracting Co., 13 Park row
Hart, B. F. Jr., & Co., 143 Liberty
Hart, Jas. A. Co., 256 B'way
†Hatzell & Buehler, 571 5th av
Hauer, Daniel J., 21 Park row
Healey Sewer Machine & Construction Co., 21 Park row
Hedden Construction Co., 1 Madison av
Hedden, V. J. & Sons Co. (Building), 1 Madison av
Helbock, C. Sons, 633 Wales av
Heningham, Richard E., 1 Madison av
Hennebique Construction Co., 1170 B'way
Henry Contracting Co., 150 Nassau
Henry, R. & Co., 633 W 47th
Hensle Construction Co., 3210 B'way
Hickey Contracting Co., 12 Elm
High Bridge Construction Co., 220 B'way
†Hildreth & Co. (Eng. & Conutr.), 135 B'way
Hill, Geo. F., 150 5th av
Hoggson Bros. (Inc.), 7 E 44th
Holbrook, Cabot & Rollins Corp., 103 Park
Holding, Wm. F., 2426 Davidson av
Holland & Co. (Public & Municipal), 493 W B'way
Holmes Bros. (Underwriters' Work), 265 B'way
Holmes Contracting Co., 165 B'way
Hood, R. H. Company (Buildiing, Waterworks & General), 299 B'way
Hopper, Isaac A. & Son (Buildiing & Public), 231 W 125th
Hopper, Jno. J., 217 W 125th
Horn, Edward C. Sons, 1440 B'way
Hough, J. W., 7th av & W 151st
House Contracting Co., 1126 Park av
Howes, R. H. Const. Co., 105 W 40th
Hudson Companies, 62 Cedar
Hudson Counties Co., 2 Rector
Hudson Engineering Co., 90 West
Hudson-Fulton Const. Co., 1495 B'way
Hudson Terminal Construction Co. (Waterworks, etc.), 50 Church
Hughes Bros., 1123 B'way
Hyde, Frank D., 90 West
Hyde-McFarlin-Burke Co., 90 West
Imperial Road Co., Times bldg
Improved Equipment Co., 60 Wall
Indelli & Conforti, ft E 125th
Industrial Engineering Co. (Engrs. & Contrs.), 30 Church
*International Contracting Co. (River & Harbor Improvements, Refilling, Reclaiming, etc.), 17 Battery pl
*International Engineering Co. (Engrs. & R. R. Contrs.), 27 William
Interstate Contracting Co., 21 Park row
Interurban Co., 25 Broad
Jackson, Geo. W. (Inc.), 46 Wall
James, Henry (Inc.), 30 Church
Jenks-Asserson Construction Co., 59 Pearl
Johnson, Chas. O., 482 W 24th
Joyce & Bloch Co., 12 Coenties slip
Kane, Jno. Contracting Co., 31 Perry
Kane, P. J. Contracting Co., 735 E 150th
Kane, T. P. Co., 40 W 141st
Kearns, P. J., 438 E 91st
Keller & Co., 304 E 87th
Kelly, Anthony, 217 W 125th
Kelly & Kelley, 45 E 42d
Kenefick, Quigley, Russell Const. Co., 520 B'way
Kenn-Well Construction Co., 12 Elm
Kerner Contracting Co., 31 1st
Kessler, S. & Co., 251 E 66th
Keystone Construction Co., 28 E 85th
Keystone Contracting Co., 37 Wall
King, A. W., 251 E 66th
King & Salkin, 767 Lex av
Kinney Construction Co., 542 5th av
Koehler, D. M. & Son Co., 149 B'way
Kramer Contracting Co., 35 Nassau
Laimbeer, John, 103 Park av
Lanigan Bros., 601 E 132nd
Lape Construction Co., 90 West
Larkin, Michael & Son, 519 E 16th
Larkin & Bro., 627 E. 169th
Lawler Bros. Construction Co., 21 Park row
Leahy Contr'g & Const. Co. (Sewer & Public), 1446 Prospect av
Leahy, Thos. B. Bldg. Co., 1 E 42nd
Lenox Const. Co., 161 W 125th
Levin & Levin Contracting Co., 320 5th av
Libman Contracting Co., 1968 B'way
Lindsay, Klappere & Lovell, 103 Park av
Loughran, Jno. J., 95 Liberty
Lyondale Construction Co., 45 W 34th
Lyons, Jeremiah C. Building & Operating Co. (Builders), 4 E 42d
McAfee Construction Co., 144th & Brook av
McBean, D. D., 3 W. 33rd
McCarthy, Jas. F., 80 N Chambers
McCoy, Daniel J., 204 W 65th
McDermott, Jas. E., 181 W 93d
McDermott & Hanigan, 31 W 42nd
McDonald, Jno. B., 90 West
McDonald & Barry, Kingsbridge av & 240th
McDonald & Onderdonk (Public Work), 2906 Jerome av
McDonough, John, 545 Broome
McGivney & Rokely Const. Co., 1 B'way
McGuire, Jas. C. & Co., 50 Church
McHarg-Barton Co., 165 B'way
McKeown, Thos. (Inc.), 103 Park av
McLaughlin, Thos. F., 517 E 69th
McLeod, T. M. Co., 90 West
McMillan, Samuel, 212 W 42nd
McMullen & Woods Co., 149 B'way
McNally Building Co., 103 E 125th
McNaul & Co., 27 William
McNiece, D. J. (Public Works), 128 B'way
McQuillan, Bernard (Public Work), 437 E 65th
McWalters, Jas., 2434 B'way
MacArthur Bros. Co. (Inc.) (Heavy Buildings, etc.), 5 Nassau
MacArthur Concrete Pile & Foundation Co., 11 Pine
MacArthur, Perks & Co., 5 Nassau
MacCracken-Hauer-Terry Co. (Engrs. & Contrs.), 15 Park row
MacDonald Construction Co., 142 B'way
Maguire, Thos. F., 2 Rector
Malatesta, John B., 3169 Jerome av
Mallett, W. A. Co., 2554 St. Raymond
Markenfield Construction Co., 50 Church
Marmac Construction Co., 316 W 30th
Marrin, E. & J., 520 E 18th
Marrone, Michael Const. Co., 326 E 116th
Masterson, Wm. H., Walton av. & 177th
Matthews, Edw. A., 13 Park row
Meads, Chas. & Co., 299 B'way
Mechanics Construction Co., 165 E 88th
Meehan Construction Co., 165 B'way
Melrose Construction Co., 147 E 125th
Mexican Western Const. Co., 82 Beaver
Meyer Contracting Co., 1133 Broadway
Millbrook Co., 63 Beaver
Minter, E. W. & Co., 115 B'way
Mitchell, Donald & Son, 304 W 53rd
Mitchell-Tappen Co., Singer Tower
Monday, Chas. E. & Co., 1 Madison av
Monks, John & Sons (Dock, Bridge & Harbor), 82 Beaver
Monks Ripley Pile Co., 82 Beaver
Monoroad Construction Co., 136 Liberty
Mooney, Jas. J., 333 E 24th
Mooney, Thos. J., 511 W 146th
Moran, Jno. J., 100 William
Morell, Frank Co., 346 E 116th
Morris & Cumings Dredging Co. (River & Harbor), 17 State
Morrow & Southwell, 500 5th av
Morton-Lange Const. Co., 314 Madison av
Moser, Ed. H., 8 E 42nd
Mullen, Chas. A. & Co., 17 W 24th
Muller Construction Co., 3155 Decatur av
Mulligan, Jno. G., 2 Rector
Mulry, Thos. & Son (Excavating, etc.), 540 W 21st
†Muralt & Co., 114 Liberty
Murdock, Harvey, 116 Nassau
Mullen Bros., 531 11th av
Murphy Bros. (Builders, etc.), 200 5th av
Murphy Construction Co., 50 Church
Murphy, J. & Co. (Builders & General Contractors), 162 Reade
Murray & Co., 259 Ave C
Naughton Contracting & Const. Co., 76 William
Naughton Co., 299 B'way
Nelson, Albert G., 12 E 42nd
NEW YORK CONTINENTAL Jewell Filtration Co., 15 Broad. (See adv. index & branch offices, end of book)
New York Contracting Co., 215 W 33rd
New York Filling Co., 17 State
New York State Const. Co. (Eng. & Contrs.), 80 Broad
New York Submarine Cont. Co., 130 Pearl
New York Tunnel Co., 17 W 42nd
Norcross Bros. Co. (Bldrs. & Public Work), 103 Park av
North Eastern Construction Co. (Engineers & Contractors), 225 5th av
Norton, Patrick (Public Work), 422 E 64th
Norton, Wm. F., 217 W 125th
O'Brien Bros (Inc.), 54 South
O'Brien Const. Co., 576 Morris Park av
O'Connor, Dennis, 46 New
O'Connor, Francis X., 230 W 49th
O'Dwyer, Michael, 163 6th av
Ohm & Wilson, 15 W 38th
O'Leary, Jno. & Son, 39 Cortlandt
O'Leary & Flanagan Co., 245 E 202nd
O'Rourke Engineering Construction Co. (Pneumatic & Other Foundations, etc.), 345 5th av
O'Shea, Patrick, 143 W 29th
O'Shea, W. L. & G. H., 29 B'way
Oxnard Construction Co., 32 Nassau
*Pacific Improvement Co. (Railroad Construction), 60 Wall
Packard, Ralph G. Co. (Dredging & Harbor), 130 Pearl
Paladino Contracting Co., 339 E 115th
Park Avenue Construction Co., 516 E 72nd
Parker, John H. Co., 42 E 23d
Pasquini, Attilio, 1123 B'way
Paterno, Michael, 3058 Heath av
Patrizio & Hendrickson, 25 W 42nd
Peckworth, Chas. H., 415 Hudson
Peirce, Jno. Co., 90 West
Pennington, Prince A., 155 W 18th

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Permanent Construction Co., 1928 Webster
Petillo & Sheil, 741 E 215th av
Pettit & Lamb Co., 110 W 34th
Phelan Bros. Cont. Co., 1928 Webster av
Phillips & Worthington, 90 West
Phoenix Construction Co., 41 Park row
Piercy, H. C. & A. I. Cont. Co., 422 W 15th
Pierson & Goodrich (Inc.), 30 W 38th
Pilkington, James (Sewers), Giles pl & Sedgwick av
Pinckney, Harry I., 33 Fulton
Pisanelli, Giovanni, 3551 Olinville av
Polzella, Frank D., 512 Courtlandt av
Post & McCord (Inc.), 44 E 23rd
Post & Para, 115 B'way
Potter, Henry M. Co., 90 West
Potterton Bros., 215 W 28th
Practical Engineering Co., 7 W 42nd
Prignano, L. & Co., 231 E 22nd
Public Service Const. Co., 50 Church
Pucci Contracting Co. (Public Work), 268
Purcell & Gilfeather, 453 E 38th
Qualey, J. S., 25 Pine
Quinn, W. H. & Co., 103 Chambers
Rae, Thos. & Son, 253 W 27th
Rafferty Bros., 624 W 52nd
Rapid Transit Subway Const. Co., 165 B'way
Raymond Concrete Pile Co., 90 West
Reddy, Patrick, Lenox av & 111th
Reeves-Koch Co., 1 Madison av
Reid, M. & Co., 114 W 39th
Reid-Palmer Construction Co., 11 E 59th
Reilly, Tullis & Blanchard, 1328 B'way
Republic Gen. Contr. Co., 34 W 33rd
Rice, Lawrence J., 103 Park av
Richard & Gaston, 143 Liberty (R. R. Engineers & Contrs.)
Robinson, Andrew J. Co., 123 E 23d
Robinson, J. C. & Son, 1 Madison
*Rodgers, J. C. Co., 121 W 125th
Rodgers & Hagerty, 41 Park row
Roebuck Construction Co., 347 5th av
Rogers, Geo. W. & Co. (Harbor & Dock), 29 B'way
Roherer, Grant, 299 B'way
Rolf, Henry J., 39 Cortlandt
Rosoff, Samuel R., 15 Park row
Russell Contracting Co., 156 5th av
Ryan, Cornelius J., 140 W 42d
Ryan-Parker Construction Co., 165 B'way
†Sanderson & Porter (Power & Lighting Equipment, etc., 52 William
Sargent, Cassell S., 132 Nassau
Savage, W. E. & Co., 39 Liberty
Schaefer, Jno. V., Jr., & Co., 5 W 51st
Schaettler, F., 535 W 34th
Schlesinger, Jacob, 222 E 37th
Seaboard Contracting Co., 299 B'way
Senft Contracting Co., 330 Stanton
Sheenan, John C. (Public Work), 253 Bway
Sheehan, Jno. R. & Co., 1170 B'way
Shelly, O. W., 1123 B'way
Schnaier, Robt., 957 Madison av
Sheridan, T. A. S. Co. (Macadam, Excavating, Rock Blasting, Paving, etc.), 17 State
Shoemaker, Lewis F. & Co., 45 B'way
Silver Construction Co., 411 E 8th
Sinclair, Geo. T. Building Co., 409 W 55th
Slattery, John (Sewer & Public), 368 Park
Smith, Augustus, 149 B'way
Smith, Clarence L. Co. (Excavating, etc.), 544 W 30th
Smith, Elward & Co., 43 Ann
Smith, F. V. Contracting Co., Lafayette av & Westchester Creek
Smyth, Neptune B. (Inc.), 1123 B'way
Snare & Triest Co. (Steel & Masonry Construcution), 143 Liberty
Solomon, Ruben & Son, 127 E 23d
Soraci Contracting Co., 170 B'way
Spearin & Preston (Dock, River & Piling), 90 West
Speedwell Const. Co., 505 5th av
Spelman, Wm. H., 200 5th av
Springsted & Adamson, 434 E 107th
Staats, R. P. & J. H. (Docks, Bridges & Buildings), 29 B'way
Standard Co., 150 Nassau
**STANDARD KILN & CHIMNEY** Const. Co., 34 W 33rd. (See adv. index, end of book)
Stannard, Ambrose B. (Heavy Government Buildings), St. James bldg
Stanton Construction Co., 762 E 165th
Steel & Masonry Contr. Co., 136 Liberty
Steers, Henry (Harbor Work, Piers, Concrete Foundations, etc.), 17 Battery pl
Stephens, Clinton, Jr. (Public Work), Clason Point
Sterling Engineering Co., 1133 B'way
Stevens, Hewitt Engineering Co. (Public Work), 15 William
**STEWART, JAS. & CO. (Harbor,** Marine & Heavy Buildings), 30 Church
Stewart-Kerbaugh-Shanley Co. (Large), 30 Church
Stobaugh Contracting Co., 1 Madison av
Stoddard & Hughes, 244 W 29th
*Strang, W. B. & Co. (Railroad & Public Work), 15 Wall
Stuart, P. & Co., 1123 B'way
Submarine Contracting Co., 81 New
*Sundstrom & Stratton Co., 90 West
Sykes, George, Inc., 1123 B'way
Talbot, F. M. Co., 1 Madison av
Taylor Dredging Co., 21 State
Teichman Eng. & Const. Co., McCombs pl & 152d
Tennessee Const. Co., 115 B'way
Terry Construction Co., 90 West
**TERRY & TENCH CO. (Inc.),** (Contractors for Supplying & Erecting Structural Steel, Iron & Steel Bridges, Heavy Timber Work, etc.), Grand Central Terminal. (See adv. index, end of book)
Thomas & Buckley Operating Co. (Inc.), 310 W 65th
Thompson-Starrett Co. (Building Construction), 51 Wall
Tide-Water Bldg. Co., 16 E 33rd
Tippler Coaster Co., 302 B'way
Torreggiani & Severino, 302 E 154th
Trainer, Jno. B., 15 Park row
Traylor Engineering Co., 30 Church
Tredennick, M. C. Co., 1123 B'way
Troman, Jos., 225 5th av
Tucker & Vinton, 103 Park av
Tulloch, David M. (Est. of) (Public Work) 130 Pearl
Turner Construction Co., 11 B'way
Tuscan Construction Co., B'way & 145th
Udall, Jno. C., 29 W 34th
Underpinning & Foundation Co., 290 B'way
Union Bridge & Const. Co., 30 Church
*United Engineering & Contracting Co. (Railroad, Dams, Tunnels, Bridge, Difficult Foundations, etc.), 17 W 42d
U. S. Drainage & Irrigation Co., 180 Bway
Universal Destructor Co., 17 State
Urban Concrete Co., 7 E 42nd
Valentine, Jas. L., 150 Nassau
Vandenburgh Const. Co., 30 Church
Van Name & Co., 80 Wall
Vassiloros Contracting Co., 154 Nassau
Van Wagoner-Linn Const. Co., 110 W 28th
Vassar's, G. Son & Co. (Building), 1170 Broadway
Vickers Construction Co., 1777 B'way
Volk, Albert A., 56 Beaver
Vreeland, J. C. Building Co., 1 Madison
Waite, Guy B. Co., 411 E 31st av
Wakeham & Miller, 103 Park av
Waldo Construction Co., 149 B'way
Waller, S. L. Co., 154 Nassau
Walsh, John F., Jr., 16 Beaver
Warren-Burham Co., 26 Beaver
Washington Co., 39 Cortlandt
Water Front Improvement Co., 220 B'way
Waters, Thos. J., 217 W 125th
Watson Contracting Co., Aqueduct av nr. Kingsbridge road
Weber, Louis Bldg. Co., 1 Madison
Webster, Fred'k, 123 William
Wechsler, Louis, 1133 B'way
Wells Bros. Co., 366 5th av
Wells & Newton Co., 292 Av B
Wendland, C. F. Eng. & Const. Co., 176 Centre
Westchester Engineering Co., 103 Park av
Westerberg & Williams, 90 West
Western Gas Const. Co., 25 Broad
†**WESTINGHOUSE ELECTRIC & Mfg. Co.** (Electric Power Installation). (See adv. index, end of book)
Weston Engineering Co., 132 Nassau
White, H. J. & Co., 95 Liberty
†White, J. G. & Co. (Inc.), (Engineers & Contractors), 43 Exchange pl
Whitney, Steen Co. (Builders), 1 Liberty
Wille, August, Jr., 418 W 42nd
Williams Eng. & Cont. Co., 13 Park row
Wills, Chas. T. (Inc.), 286 5th av
Wills & Marvin Co., 1170 B'way
Wilson-Hoyt Co., 1 Madison av
Winston & Co., 290 B'way
Winternitz, Albert, 237 E. 72d
Wood, E. J. Co. (Eng. & Contrs.), 243 B'way
Youngstown Construction Co., 30 Church
**ZIMMERMANN, JACOB A., 505** 5th av. (See adv. index, end of book)

## Borough of Queens.

FAR ROCKAWAY—Kaiser, George
FLUSHING—Peace Bros. (Grading, Excavating, etc.)
Tuohy, T. F. & Co.
LONG ISLAND CITY—Brahy, Jno. W., 283 Crescent
Brown, Thos. A., 699 Crescent
Fitzpatrick, Edward, 130 3d
Hicks-Johnson Const. Co. (Street, Municipal, etc.)
Hill, G., Ravenswood
Leddy & Moore, 53 8th
Paradise, Anthony, 98 B'way
Quinn, H. F. & Sons, 22 Hunter's Pt av
Stevenson, Jas. A. Co., 270 Jackson av
Woodruff, C. Curtis & Co., 211 10th
WHITESTONE—Collins, Lawrence

## Borough of Richmond.

NEW BRIGHTON—Hart, P. & Sons (Excavating & Flagging), 17 Laf. av
Sullivan, James D.
PORT RICHMOND — Donovan, Jos. (Public Works, Roads, etc.)
Milnes, Jno Co.
STAPLETON—Wolff, Philip & Son
TOTTENVILLE—Brown, A. C. & Son
WEST NEW BRIGHTON—Attridge, Jno. F.
Carlin, Thos.
Darcey, D. J.
Johnson's, Joseph Sons
Lynch, William F.

## (End of New York City)

NIAGARA FALLS—Bennett & Shephard (Public Work)
Cusans, Thomas (Public Work)
Douglas, A. C. (Shaft Sinking & Tunnel Work)
Eagan & Cox (Public Work)
Read-Coddington Engineering Co. (Brick & Asphalt Paving, etc.)
Schumacher & Mayer
Shepard, Chas T. (Sewer, etc.)
Shepard, Wm. A.
Snyder-Gillett Contracting Co.
NORTH TONAWANDA—Stafford, S. D.
OGDENSBURG—Proctor Mfg. Co.
OLEON—Corsett, L. E.
ONEIDA—Marcellus & Ballard
ONEONTA—Bennett & Butts
OSWEGO—Allen, Wm. D.
Barnett & Co.
Henrick, John
OWEGO—Colby, Ellery & Co.
PATCHOGUE—Conklin, Jas. P.
Terrell, E. G.
PEEKSKILL—Smith, John, Jr. (Excavating, etc.)
Sproul, H. B.
PLATTSBURG—*Buckley Construction Co.
McQuillan, A.
PORT CHESTER—Merrit, John O. Co.
PORT RICHMOND—(See New York City, Borough of Richmond)
POUGHKEEPSIE—Brophy, Patrick
Burgess, Jas. D. & Son
ROCHESTER—Brayer & Albaugh (Sewer, Grading, Heavy Masonry, etc.)
Brotsch, F. A. & Son (Sereet & Sewer)
*Casey & Murray (Water Works, Railroad, Paving, Bridge Masonry, Street & Sewer), Powers bldg
*Chambers & Grady (Sewer, Paving, Masonry, R. R., Waterworks, Roads & Builders), Powers bldg
Cowles, H. N. (Sewer & Public Work)
Foery & Kastner (Street), Goodman, Opp.
Friederich, A. & Sons Co. Central Park
Fuller, Wm. (Sewer & Street), 83 Adams
Gorsline & Swan Construction Co. (All Kinds of Building Work)
Hagamann, Miller & Hagaman (Sewer, etc.)
Hartung, Chas. W.
Holahan, Thos. (Street), 164 Lewis
Horn, C. L. (Street, Sewer & Buildings)
Knapp, Homer (Bldg., etc.)
Lauer, Fred C. & Sons (Sewer & Street), 458 S Clinton av
Ludington, Ira M., 627 Powers bldg
Luther, Jno. & Sons Co. (General & Builders), 162 North
Maselli, Frank A.
Oberlies, Henry Sons
Rapp, F. H. & Co.
Ripton & Murphy (Street, Sewer, etc.)
Rochester Construction Co. (Street, Sewer, Excavating, etc.)
Sickels, H. P. Co.
Stallman, H. P. & Son, 712 St. Paul
Whitmore, Rauber & Vicinus (Sewer, Street, Roads, etc.), 279 South av
RYE—Peoples, David (Engr. & Contr.)
SALAMANCA—*Miller, Fred

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SARATOGA SPRINGS—Bradley, Miles
Gaffney, B. & Sons (Masonry)
Groff, Isaac
Remington, R. S.
Robbino, Smith W.
SAYVILLE—Ritch, Philip C.
SCHENECTADY—Acme Engineering & Contracting Co. (Canal & Public)
Beckwith Bros.
Brown & Lowe
Clements, Joseph H. Jr. (Public Work)
Kinum, Andrew (Building & Public)
McDermott, Jno. (Building & Public)
Malloy & Davis
Schenectady Contracting Co.
STAPLETON—(See New York City, Borough of Richmond)
SYRACUSE—†Archbold-Brady Co. (Power & Ball John C. Lighting Equipment)
Brown, Chas. R.
Burns, W. J. Co.
Bustin, John W.
Canal Quarry Co. (Breakwater, Harbor, etc.)
Central City Paving Co. (Paving, etc.)
Coleman, Jas. H.
Dawson Bros.
Dickinson, Wm. & Son
*Dickison, Guy B. (B. R. & General), Kirk
Dunfee, Joseph (Public, Canal, etc.) bldg
Dwyer, Wm. J.
Gaffey, Albert
Hodge, I. A. & Co. (Inc.)
Hookway, C. T. (Sewer)
Kelley, John Jr. (Grading)
Lane, Maurice
Leamey, Clynes & Leamey
Murphy, David
Murtagh, James S. (Grading, etc.)
National Construction Co. (Bridges)
*O'Brien & Hoolihan Contracting Co. (Building, Canal & Public)
Smith, Chas. J.
Sullivan, C. J., 126 S Clinton
Thomas, Philip (Sewer)
TARRYTOWN—Duell, Jas. (Sewer, Paving &
TROY—Boland, Chas. P. Co. Excavating)
Brady & Fitzpatrick (Buildings, etc.)
Broughton, Chas. D. (Engrs. & Contrs.)
Corliss Construction Co. (Telford & Macadam Rds.)
Crowley, Chas. Co. (Not Inc.), 114 3d
Hudson Valley Construction Co.
Karr, Thos. H. (Roads, etc.), 708 Fulton
Murray, Martin (Roads, etc.), 14th & Hutton
Pittsburg Eastern Co.
TUCKAHOE—Bellew & Merritt Co.
UTICA—Besch & Beebe
Faas, F. Louis
Interstate Paving Co.
Kerner, P. & Son, 2 Canal
McCaffrey Patrick J.
Perretta Rocco & Co. (Sewer, etc.)
Peters, Nicholas D. & Co. (Paving, etc.),
Prichard, Wm. 23 Kossuth av
Richards, R. & Son, 42 Elizabeth
Roberts, H. W. Squires, Jno. A.
Troy Public Works Co. (Public Work), Utica City National Bank bldg
Utica Construction Co.
Utica Stone & Construction Co.
WATERTOWN—Hodge, C. D. & Co.
Lindley, E. D.
McHale, Thos. H.
O'Brien, Thos.
Richards, Sockwell & Richards
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WHITE PLAINS—McCabe, W. F. (Roads, Merritt, Freeman H. etc.)
O'Rourke, John
Richards, Tony (Public Work)
Waite, E. E.
YONKERS—Flannery, P. J.
Garnjost, F. A.
Mangini, Nicholas, 177 Waverly
Keefe, M. H.
Kelly, Geo. T.
Keystone State Construction Co.
Lynch & Larkin
Peene & Garthwaite
Quick, S. F. & Sons
Stewart, Robert L

## NORTH CAROLINA.

ASHEVILLE—Asheville Dray, Fuel & Construction Co.
BURLINGTON—Cates Machine & Bridge Co. (Concrete Bridges & Concrete Const.)
CHARLOTTE—Charlotte Consolidated Construction Co.
Jones, J. A.
Porter & Boyd
DURHAM—Lawrence, I. G.
Smith, Herbert
Stanley, J. B.
GREENSBORO—Central Carolina Construction Co. (Inc.)
Hollady & Crouse (Bldrs., etc.)
Hunt, J. T. & Co.
Pruden, J. T.
WILMINGTON—Brady, R. H.
WINSTON SALEM—Fogle Bros. Co.

## NORTH DAKOTA.

FARGO—Hogan, Andrew S.
Johnson, C. H. & Co.
Kennedy, James (Sewer, etc.)
Ostge, T.
Porritt, C. H. (Sewer & Public)
Powers, Thos.
Sehruth, Louis W.
GRAND FORKS—Bailes, H. H.
Buckingham, Geo. W.
Dinnie Bros.
Moran, M. J.
Northern Construction & Engineering Co.

## OHIO.

ADA—Sousley & Botkin
ADENA—Stringer, A. E. & Co.
AKRON—Carmichael, Geo. W. & Co. (Builders, etc.), Hamilton bldg
Franklin Bros.
Hower Bldg. Co. (Building, etc.)
Wildes & Davidson
ALIKANNA—Castner Bros.
ALLIANCE—Devine, J. C. (Paving & Railroads)
Joliat, S.
Wilson, John
BARBERTON—*Paul & Henry Construction Co. (Steam Shovel & Municipal Work, etc.)
BARNESVILLE—Wilson & Harper
BELLAIRE—Hollarback & May Contract Co. (The)
Jones & McGraw
Rosser, Chas.
BELLEFONTAINE—Mitchell Contracting Co.
Shawyer, John L.
BLOOMVILLE—France Dredging & Const. Co.
BRILLIANT—Gilcrist & Martin
CANAL DOVER—Tuscarawas Construction Co.
CANTON—Bender, C. W. & Co.
Downs, Frank (Paving, etc.)
Home Engineering & Contracting Co.
Landor, Edw. J.
Skeeles, John (Excavating)
CINCINNATI—Bantley, Henry, Spring Grove av, Winton pl
Bolan, J. M. (Street), 1466 State av
Broeman, Frank (Street, etc.), 3140 Gaff av
Buckeye Wrecking & Building Co., 959-67 W 7th
Colter, Archibold (Street), Grand Opera House bldg.
Evans, Evan (Sewer, etc.), 1226 Ida
Ferro Concrete Construction Co., Richmond & Harriet
Fogarty, W. (Grading, etc.), 2550 Burnet av
Folz, Frank W. & Co. (Paving, Sewer & Public), Dayton & Freeman av
Funke, John (Excavating, etc.), 701 Hunt
*Gest, G. M. (General), Union Trust bldg
Glandorf, C. H. (Pile Driver & Public), 8th & Plum
Gleason, Patrick (Street), 1906 Highland av
Goodman, John & Co. (General), 2133 Florence av
*Gordon Engineering Co. (Cement & Brick), Vine & Opera pa
Heffron, Wm. Construction Co., Neave bldg
Henkel, August J., Mercantile Library
Hoke Bros. Bldg. Co., Allen Bldg.
Hummel, David Building Co. (Masonry, etc.), 2629 Spring Grove av
Kaps-Brehm Co., First Nat'l Bank bldg
Kirchner Const. Co. (General), 221 W 9th
Maloney, T. (General), 1858 Humboldt av
Meier, Chas. (General), 3846 Colerain av
Pachoud Bros., 1037 Gilbert av
Quill, M. F., Commercial Tribune bldg
Robinson, O. E. (General), 4647 Hamilton av
Roche-Bruner Building Co., Johnston bldg
Ruebel, Jno. Const. Co. (Street), 4120 Virginia av. Cum'ville
Scully Construction Co., Com. Tribune bldg
Sheridan-Kirk Contract Co. (Government & Dredging), Mercantile Library bldg
Strack, T. P. (Street & Sewer), Goodall bldg
Sullivan, M. & Sons, Mercantile Library bldg
Wiese, Henry (Grading, etc.), 1239 State
Wright, Chas. L. (General), Custer, s of Observatory rd
CLEVELAND—*American Const. Co. (Heavy Masonry), Rockefeller bldg
Anders Construction Co.
Andrews Bros., Schofield bldg
Austin, Samuel & Son Co. (General), 1257 B'way, S E
Baldwin Bros. (Paving, Sewer, Water Works, etc.), Rose bldg
Beers & Doolittle, Soc. for Savings bldg
Breakwater Co. (Harbor & General)
Burnett, Rollin P. (Paving & Sewer), Society for Savings bldg
Carey Const. Co. (Concrete Construction)
Clements Bros. Construction Co. (Paving,
*†Cleveland Construction Co., Citizens bldg
Cleveland Trinidad Paving Co.
Collier, H. J. Co., Columbia bldg
Connelly, J. Construction Co., 427 Schofield
Dall, A. & Son (Builders), 121 Lakeside av
Dautel, L. & Son (General), 5710 Hough av, N E
Fath, C. H. & Son Const. Co. (Masonry, Pile Driving, etc.), 516 Electric
*Fath Construction Co. (Tunnels, Masonry, Pile Driving, Concrete Work, etc.)
Firchow, Julius P. Contracting Co., 1234 N 3d, N E
Gawne, W. J. Co. (Public Works, etc.), Citizens bldg
Gill, Jno. & Sons (Builders & General Contractors), Citizens bldg
Grant, Jno. & Son Co., 2346 Woodhill rd
Graves, E. M., Commercial Bank bldg
Great Lakes Dredge & Dock Co. (River & Harbor, Bridges, Foundations, etc.), Williamson bldg
Griese, D. C. & Walker Co. (General), 1417 Prospect av, S E
Griffin, C. N. & Co. (General), 2164 Ashland rd
Henahan & King (General), Chamber of Commerce bldg
Hunkin Bros. Const. Co. (Breakwaters, Piers, Buildings, etc.), Cuyahoga bldg
Koblitz, I. & Son (Sewer), 5315 Lorain av
Lindhorst, F. & D. (General), Superior bldg
MacKenzie, L. W. (General), Park bldg
Masters & Mullen Construction Co.
National Fireproofing Co.
Northern Ohio Paving & Construction Co. (Concrete, Grading & Paving, etc.), Arcade bldg
Paul, Wm. T. & Sons, 10801 Lee av
Reaugh Construction Co. (Paving, etc.), Garfield bldg
Samman, Peter, Williamson bldg
Slatmyer, Henry G. (General), 203 Lakeside av, N W
Spence Bros. Construction Co. (Grading, Paving, Sewers, Macadam Roads, etc.), 12409 Euclid av
*Standard Contracting Co. (Railroad & General), Wade bldg
*Strong, C. H. & Son (Dredging, Steam Shovels, Bridge Masonry, Docks, etc.) Cuyahoga bldg
Tausch, Wm. F. (General), Williamson bldg
Thompson, Walter I. & Son (General), 5015 Euclid av
Townsend, W. J. Co. (Sewer & Street Improvement), 10700 Drexel av, N E
Water Works, Sewer & Paving Construction Co., Citizens bldg
Watson, W. J. & Co. (Bridges, Buildings & Engineering Structures), Citizens bldg
Watterson, Henry (General), Citizens' bldg
Whitton Const. Co. (General), Schofield bldg
Wood, Thos. (Sewer, etc.), 401 Prospect av,
Young, Wm. C., Citizens bldg N W
Younger & Farmer Co., 1670 Crawford rd, N E
COLUMBUS—*Acme Paving & Const. Co., 403 W State
*Adams, J. T., Columbus Saving & Trust
Brewer, N. G., 49 N High bldg
Burns, Michael J., 1656 Summit
†Capitol Const. Co. (Concrete Const.), Ruggery bldg
Central Contracting Co., Columbus Saving & Trust bldg
Columbus Macadam Co., 319 Dublin av
Cooke, Grant & Fritz (General), Eberly blk
Durflinger & Son, Union Nat'l Bk. bldg
Elford, Edw., Ruggery bldg
Evans, R. H. & Co., Columbus Savings & Fornof & Son, 252 S 2d Trust bldg
Frances Bros. Co., New 1st Nat'l Bk. bldg
Francis, Albert, 225 N 17th
Fritz & Rumler, Eberly bldg
Hegelheimer, Chas. G. Co., 446 E Rich
Geigele Garnes Co.
Geigele, Walter J., 143 E Engler
Graham, Wm. M., 1st Nat'l Bk. bldg
Heckart, J. W., Dispatch Annex

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Hibbs, E. K., Columbus Saving & Trust
Hoover, F. M., 11 N High bldg
*Hutts, Jas. W., 863 Heyl av
*Jones Bros. (General, Railroad, etc.), Harrison bldg
Kolb, Wm. W., 144 E Fulton
Luchtenberg, Wm. H. & Co. (Paving & Public, etc.), The Wyandotte
McGrath, Daniel W. (Sewer & Masonry), New First Nat'l Bank bldg
Nichol & Cow, Brunson bldg
Pallen, H. A. & Co., Hayden-Clinton bldg
Pugh, A. G. (Paving, Sewer, etc.), Union Nat'l Bank bldg
S. C. Construction Co.
Schubell, Wm. O., 230 W 9th av
Shaw, Harry J., Columbus Saving Bank
Slivert Bros., 11 N High bldg
Smith, Walker, Broad, off Powell av
*Sturm, L. E., The Wyandotte
Sullivan, D. E. & Sons, Clinton bldg
Thompson, Oscar B., 123 Hubbard
Turner, J. H., 209 E Long
Westwater, Jas. & Co., The Wyandotte
Wright, C. J., 85 N High
Wright, R. C., 85 N High

CONNEAUT—*Stanley, W. F. (R. R., etc.)

DAYTON—Backus, T. J. Const. Co. (Paving, Sewer)
Engle & Gohn
Fauver, E. H. & Co.
Fox, Al. S.
Hall-Cronan Co.
Luyster & Lowes
Paul & Kirschner (Sewer, etc.)
Requarth, F. A. Co. (The), Monument av
Sebold & Arnold & Sears
Shoup, J. O. & Co. (Paving)
Talbott, H. E. Co. (Heavy Masonry, Concrete Work, etc.), 1035 Reibold bldg
Worrell, C. E. (Excavating)

EAST LIVERPOOL—Cain, John C. & Co.
Gamble, Suries & Co.
Hinton, B. F.
McHenry, H.
Ryan & McLaughlin
Willison, J. M.

FINDLAY—Hall, C. B. & Son (General)

GIRARD—Gialdine, G. A. (Paving & Sewer)

GREENVILLE—Irwin Bros.

HAMILTON—Andrews Asphalt Paving Co. (Paving, etc.)

IRONTON—Ironton Construction Co.

LIMA—Fisher, Arthur L.

LORAIN—Glick & Burgett
Stauder, N. B.

MANSFIELD—Cotter Transfer & Storage Co. (Excavating, etc.)
France Dredging & Construction Co.
*France, E. H. Sons (Railroad, etc.)
Schniezer, F. F. & Son
Small, Simeon & Son

MARIETTA—Dickson & Beardsley
Dowling & Hoff Co.
Putnam & Price (Paving, etc.)

MARION—Hummer Construction Co.
Leffler & Bland

MASSILLON—Converse, Emil
Gise, L. W. & Son
Meinhart, John & Son (Street & Public)
Schrader, Geo. J.
Swanson Bros.
Vogt, W. H. & Son (Street & Public)

MIDDLETOWN—Arpp, John (Sewer)

MINERVA—Unkefer, Jno. G. & Co. (Bldrs., etc.)

NEWARK—Brennau & Nutter (Paving, etc.)
Ferguson, Walter P.
Jones, Ben B.
Jones, Daniel E.
Phillips, P. S.

NEW PHILADELPHIA—Hensel, Samuel

NILES—Mango, V. & Co. (Large Paving, etc.)

PORTSMOUTH—Kaps Bros. (Heavy Masonry, etc.)

SANDUSKY—O'Donnell, Anthony (Paving, etc)
Weber, J. P. & Co.

SPRINGFIELD—Hannon, M. J. (Street, etc.)
McHugh, John H.
McHugh, William E.
Ryan, Edw. (Paving & Public), 101 Clifton

STEUBENVILLE—Bates, H. M.
Floto Bros.
McDonald, Andrew W.
Still, John

TOLEDO—Beach, J. J. (Grading), 1918 Wayne
*Bick, Jacob N. (Trestles, Foundations & R. R.), The Nasby
Bodette, Edward, 704 Boalt
Breyman & O'Neill (Sewer, etc.), St. Clair bldg
Bright, Wm. W. (General), 2030 Adams
Carland, J. C. & Co. (Railroad & Public Works), Spitzer bldg
*Craig, George A., 1523 Nicholas
Dixon Engineering & Cont. Co., 323 Huron
Garrigan Bros. (Paving & General), Valentine bldg
Hales, James, 1431 Milburn
Hattersley Construction Co. (General), Spitzer bldg
Hermann, C. C. J. (Sewer), 1080 Fernwood
Hilderbrand, Samuel, 2456 B'way av
Horan, J. H. (Paving, etc.), The Valentine
Jones, Robert J. (Excavating), 816 Ambia
Kelly, T. J. (Sewer), 628 Avondale av
Kerlin Bros. Co. (Paving & General), St. Clair bldg
Knopp Bros. Co., 1415 Oak
McKinney Bros., Wayne bldg
McLain, E. A. (Sewer), 958 South
Manor, Jos. J. (Excavating, Grading, etc.), 1317 Ewing
Neukom, Albert, 140-50 Ottawa
O'Sullivan, M. F. (Paving), 145 Oak
Pheils, Jos. S., 1319 Utah
Prentice, Wm. H., 360 W Central av
Rabbitt, Michael & Sons Co. (General), The Nasby
Reamsnider, Geo. (Sewer), 810 Lorain
Rinker, Fred'k, 1307 Felt
Russell & Jennison Co., 313 Huron
Schultz, Chas. (Sewer & Paving), 723 Tecumseh
Schillinger Bros. Co. (Asphalt & Concrete Pavements), 215 City Park av
*Seagrave, Frank E., National Union bldg
Sheehan, Henry (Sewer), 1208 Collingwood
Sheehan, Jas. (Roads, etc.), Ohio bldg av
Spear, Evans Co. (General), 2013 Lawrence
Spieker, Henry J. Co., 409 Michigan av
Thacher, A. Q. & Co. (Dredging, Submarine Work of all Kinds, Heavy Masonry, etc.), 6 Jefferson av
Toledo Construction & Supply Co. (Paving & Sewer), Nicholas bldg
Wynkoop-McGormley Co., Ohio bldg

TROY—Hennessey Bros. (Sewer, Excavating

UHRICHSVILLE—McCollam & Sons (Roads, etc.)

VAN WERT—Ireland, C. L.
Putnam & Delong (Road & Street)

WELLSVILLE—Forbes & Smith
McLain, Fremont

YOUNGSTOWN—Chambers & Heasley (Paving, etc.)
Collucci, Andrew
Connell, Chas. H.
*Joyce, M. J.
Kennedy Bros.
McDougall, E. J.
McVean, John
Merrian, W. F.
Mouser, Christ
Niedermeier & Restle
Shoof & Hawley
Thomas, John O.
Thompson Bros.
Turner & Oleson (Paving)

ZANESVILLE—Adams Bros. Contracting Co. (Sewer, etc.)
Dunzweiler Bros.
Evans, R. H. & Co.
Handshy, Wm. C.
Hoffman, S. W.
Mast, E.
Price, J. D.
Tawnsend, Frank M. (Railroad & Masonry)
Townsend, T. B. Brick & Contracting Co. (Sewer, etc.)

## OKLAHOMA

ALTUS—Hays Construction Co.

CHANDLER—Manhattan Construction Co., Inc.

McALESTER—Deibler, George H.
Hussey, D. B.

OKLAHOMA—Anderson, T. R. Construction Co. (Bridges, etc.)
Conway, R. F. (of Chicago, Ill.)
Dunning, Lisle Construction Co.
Gross Construction Co.
Kennedy & Hobson
Lee, L. F.
*Maney Bros. (R. R., etc.)
Oklahoma City Construction Co.
Parker, Washington Co. (of Kansas City, Mo.)
Roster, Joseph
Smith, J. S. & Sons (Street, etc.)
Western Paving Co.
Svatek & Parker

## OREGON.

ASTORIA—Basel, Rudolph
Ferguson & Houston (General)
Lebeck, Leander

EUGENE—Campbell, W. T.
Roney, L. N.

PORTLAND—Barstow, W. S. Co. (Reinforced Concrete Mills, Electric Railways, etc.), Electric bldg, Portland, Ore.
Bingham & McClelland
Camp, H. L.
Cook, C. J. Co.
Friberg, Andrew
Gardner & McLennan
Giebisch & Joplin (Grading, etc.)
Hurley-Mason Co. (Building, etc.)
Jacobsen, Bade Co.
Joplin & Meeks (Grading)
Langford & Walker
Lind, William
Litherland & Abrey
McHolland Bros.
McInnis & Reed
Northwest Bridge Works (Bridges)
O'Neil & Co.
Pacific Bridge Co.
*Pacific Coast Construction Co.
*Pacific Engineering Co. (Railroad, Docks, Factories, etc.)
Palmer & Ellison
Paquet, Jos.
St. Helens Quarry Co.
Slemmons, J. B.
Steele, W. B.
Stewart, Robt. J.
Stokes, Zeller
Stout, Hampton B.
United Engineering & Construction Co. (Engineers, Contractors, Builders, Bridges, Dams, Waterworks, etc.)
Wakefield, Jacobsen
Warren Const. Co.

SALEM—Pugh, Walter K.
Sauter, E. J.

## PENNSYLVANIA.

ALLEGHENY—(See Pittsburg)

ALLENTOWN—Bast, DeForest (Masonry, etc.)
Hardner, Geo. H. (Bldr. Sewers, Macadam rds, Bridges, etc.)
Calder, Geo. H. (Sewer, etc.)
*Crilly, Hugh E. (R. R. & General)
Emanuel, David (Concrete, Excavating, etc.)
Gangemere, Wm. H. (Bldr. & General)
Hoch, Oscar S. (Masonry, Excavating, etc.)
Hardner, Geo. H. (Bldr. Sewer, etc.)
Ochs, Milton T. J. (Bldr. & General)
*Pascol, Wm. H. (R. R. & General)
Rathbun, R. S. (Bldr. & General)
Schweyer, Frank C. H. (Excavating, etc.)
Stephens, A. M. & Son (Masonry, Excavating, etc.)
Weaver Contracting Co. (Concrete, etc.)

ALTOONA—Altoona Construction Co.
Counsman, D. & Son
Finn, P. W. Construction Co.
Herr, William H. & Sons
Hersh, Alfred J.
Hinkle, H. G. (Inc.)
Hughes, Clifton D.
Vipond, John S. (Sewer & Public)
Zimmers, Geo. A.

ARDMORE—Mahan, Frank H.

BEAVER FALLS—Bloom, Henry

BLOOMSBURG—Jury, B. W.
Reimard Bros.

BRADDOCK—Eicher & Milligan
Hodder Construction Co. (Inc.)
Hogg, George Co.
McCrady Bros. Co. (Paving, Sewer & Excavating)

BURNHAM—Kline & Kuepp

BUTLER—Goerman, Chas. I.
Schenck, Geo. & Co.
Weigand, Edward

CARBONDALE—Atkinson, Hugh

CARNEGIE—Dunshane & Lewis
Gamble, Samuel
Harris, Morgan
Holman, Charles
McClintic-Marshall Const. Co.

CATASAUQUA—†Emanuel & Co. (Builders & Public Work)
Von Mangeringhausen, W. H. Co.

CHAMBERSBURG — Nelson - Merydith Co. (Bridge Work, Reinforced Concrete Road Building)

CHESTER—Dickerson Paving & Const. Co.
Hanna, Jno. & Sons (Street Improvement, Excavating, Grading, Sewer, etc.)
Holcroft, W. H. & Co.
Nolan Bros. (Builders, etc.)
Taylor, J. I. (Bldrs. & Gen'l)

CLEARFIELD—*McAtel, Jno. C.

COATESVILLE—Ash, Chas. H.
Dunleavy Bros. (Railroad & Excavating)
Thompson, W. A. P.

CONNELLSVILLE — Connellsville Construction Co.
Custer & Henry
Duggan, John
Murphy, Owen & Bro.

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CORRY—Rogers, C. R. & Co. (Mill & Factory Construction a specialty, Reinforced Concrete Work, etc.)
DUBOIS—*Carson, Daniel J. (R. R., etc.)
Johnson, Joseph (Paving, etc.)
Loeb Bros.
Osborne, M. W.
DUNMORE—Gibbons, Martin
EAST BERKLEY—Ahrens, H. E. Co.
EASTON—Lerch, F. J. & Co. (Blds. & General)
Luttenberger, Jacob (Concrete, etc.)
*Miles-Tighe Cont. Co. (R. R. & General)
Siebler, W. F. & Co. (Concrete, etc.)
*Smith & McCormack (R. R. Blds. & General)
*Stewart, R. T. & C. D. (R. R. & General)
Steinmetz, Amandas (Bldrs. & General)
ERIE—Dodsworth, Richard C.
Driscoll, Edward (Sewer. etc.)
Eichenlaub, V. D.
Kirschner Bros.
McCormack, Jos. M. & Bro. (Sewers)
Mayer Bros. Construction Co.
Shenk, Henry Co. (Builders & General Contractors)
FRANKLIN—Corrin & Wilt
Eshelman, W. H.
Northwestern Construction Co.
Osborne, Edwin
Osborne, John & Son
Woods, Treat & Lewis Co. (General)
GREENSBURG—*Bennett & Talbott (Railroad & Public)
Bott, L. W.
Cochran, James
Fulmer, Bennett R.
Long, Oliver
McCann, Peter
Stark, H. F.
Westmoreland Construction Co.
HARRISBURG—Baumgartner, Frank
Central Construction Co.
Gettys & Girvin
Kamerer, Andrew
Schuddemage, Harry
Stapf & Benfer
Stucker Bros. Construction Co.
Weaver, W. O. & Son
Whittaker & Diehl
HAZLETON—Cuyle, Fred H.
Cuyle, N. J. Son
Frederick, S. Y.
Itter, Charles
Kider, Simon
McDermott, Peter
Ruth, Ario A.
Schaub, Justis
Woodring, G. E.
HOMESTEAD—Erbeck, F. J. (Paving & Public)
Snyder, J. O.
INDIANA—Bennett, M. & Sons
Buchanan, C. A.
McGovern, P.
Whissell, M. L.
JOHNSTOWN—Alwine, Moses & Son
Best, John V. (Paving, etc.)
Clark, Geo. W. (Paving, etc.)
Danker, Bruno
Dietz, John F. (Building, etc.)
Griffith, Geo. (Concrete, etc.)
Johnstown Construction Co.
Lloyd, E. A.
Overdorff Bros.
Overdorff, Edmund
Reiser, Joseph
Scharmann & Wacker
Strayer, J. D.
Thiel Construction Co.
LANCASTER—Breneman, Jos. (Building, etc.)
Fritchey, J. U. & Son (Paving & Sewer)
Gesell, Geo.
Groff, Benjamin F.
Hook, Jno. H. (Sewer & Public)
McMellen, Elias (Bridge, Masonry & Builder
Oster, Wm. M. (Paving, etc.)
Wohlsen, Wm. & Son
LANSFORD—Riebe, Herman Co.
LEWISTON—Ahrens Construction Co.
Steinbach-Billmeyer Co.
LOCK HAVEN—Caprio & Grieco
Grieco, Chas. P. & Co.
*Miller Construction Co.
Miller, Jas. M.
McKEESPORT—Becker, Wm. J.
Bowman Bros. (Paving, Street, etc.)
Ridge, James W.
Wertenbach, John H.
McKEES ROCKS—Bryan, Frank
Herbst, J. Lumber Co.
McAleer & Dorr
Williams, A. W.
MAHANOY CITY—Donohue, John
MEADVILLE—McGuigan, T. (Sewer & Public)
Robinson, Fred'k (Sewer, Paving & Excavating)
Smith, Harper L.
NEW BRIGHTON—Garmen, C. & Sons (Building, etc.)
McGuire, J. G. & Co.
NEW CASTLE—Burns Bros. (Sewers, etc.)
Huey, Samuel R. (Heavy Masonry, etc.)
Kline Lumber & Construction Co.
Marquis & Wallace
Miller, J. H. & M. E.
Scanlon, Michael J.
NORRISTOWN—Dyer, Jno. T. Quarry Co. (Railroad & Public Works)
OIL CITY—Meals, J. F.
OLYPHANT—O'Brien, James W.
PHILADELPHIA—American Dredging Co. (River & Harbor), Mariners' & Merchants' bldg
Armstrong & Latta (Dock, Harbor & Public), Land Title bldg
Atkins, Edward, 1221 Arch
Barrett, G. McN., 5306 Magnolia, Gtn.
*Boas, F. J., 14 S Broad
Bower, C. P. Construction Co. (Heavy Masonry, Grading, etc.), Bulletin bldg
Bennis, Edward F. (Sewers, etc.), P O bldg, Gtn.
Bennis, Richard P. (Sewer), State rd
Bowers Bros. Co., Real Estate Trust bldg
Brann & Stuart Co., Arcade bldg
*Brendlinger, P. F., Arcade bldg
Brocklehurst, Harry, 512 W Norris
Brown, John G. (Contractor & Engineer), Witherspoon bldg
†Brubaker, G. S. W. & Co., Witherspoon bldg
Byers & Clarkson, 806 Walnut
*California & Texas R'y Construction Co., Carey & Reed, Perry bldg 26 S 15th
Cherokee Construction Co., Franklin Bank bldg
*Clement. F. H. & Co. (R. R., etc.). Land Title bldg
Connor, Thos., 3333 N 5th
Cornell, J. S. & Son, Land Title bldg
Craig, Charles (Excavating. etc.), 2632 Columbia av
Cramp & Co. (Builders, etc.), Denckla bldg
Cunningham & Murray, 1345 Arch
Deal, Horace B. Co., Tabor rd
DOAK, JAS. G., & CO. (Large, Building & General), 1420 Chestnut. (See adv. index, end of book)
Dotts. W. E. & Co., 148 N 2d
Dougherty, W. R. (Building), 1604 Sansom
DOYLE & CO. (Builders, etc.), 1519 Sansom. (See adv. index, end of book)
*Drake & Stratton Co., Penn bldg
Du Page Construction Co., Witherspoon bldg
Eyre-Shoemaker (Inc.), Arcade bldg
Filbert Paving & Construction Co. (Paving, etc.), 29th & Huntington Park
Finlay & Belfield, 130 N 12th
Fonder, Edw. F., Land Title bldg
Fretz, A. L. & Son, 1222 Chancellor
Glenn, Geo. A. & Co., 930 N. 8th
Goll, Jno. & Co. (Railroad, Bridge, etc.), 1539 Filbert
Graham, John T. Hermit, L. & Wissahickon av, Gtn.
Guenthoer, Otto A., 2102 Sedgley
Harris, Franklin M. & Co., 1820 Wylie
Havens, Herbert E., 1314 Arch
Hedden, E. J., 14 S Broad
Heinicke, H. R. (Inc.), Drexel bldg
Henderson & Bro., S 25th. below Spruce
Hennebique Const. Co., Witherspoon bldg
Higgins, Robert (Sewer), 4642 Lancaster
Hill, Malcolm W. Co., 1503 Sansom av
Hoffman Engineering & Contracting Co. (Bridge & Public), Penna. bldg
Holt, Henry, 30th & Race
Hurley, Patrick J., 1216 Chancellor
*Keenan, D. F. (Railroad, etc.), Arcade bldg
*Kerbaugh, Henry S. (Inc.) (Heavy Grading, Track Laying & Bridge Masonry, etc.), Arcade bldg
Kessler, Geo., 931 Drexel bldg
Keystone State Const. Co., Penn. bldg
Klos, Henry J., 3434 Franklin av
Latta & Terry Construction Co., Penn. bldg
Lehigh Engineering & Contracting Co., Real Estate Trust bldg
Lynch Bros., Lippincott bldg
McCaul, Charles Co., 10th, cor Sansom
McCleman, H. A. & Bro. (Excavating, Grading, etc.), 13th, cor Shunk
McCormick & Co., Rothschild bldg
McDermott Contracting Co., Penna bldg
*McGaw & Gray (Masonry, Grading, Bridges, R. R., etc.), Penn. bldg
McGlathery, Joseph, 430 Walnut
McGraw, James Co., Arcade bldg
McHugh, M. & J. B. (Sewer, Paving & Municipal Work), Arcade bldg
McLean, Wm. & Co., Harrison bldg
McMahon, D. (Street), Main & Chelton av
McManus, M. Contracting Co. (Inc.), 414 Wood
*McManus, Patricius, 224 N 32d
McMenamin & Sims, Arcade bldg
McMenamin & Sims, Arcade bldg
McNichol, Jas. P. & Bro. (Public Work), Betz bldg
*McNichol, Patrick & Sons (Public Work), 1316 Race
Mack Paving Co., Land Title bldg
Monday, Chas. E. & Co., 1318 Olive
Monks, John & Sons (Inc.), Stephen-Girard bldg
Mullen, Jas. A. (Masonry & Grading), 5512 Vine
Myers, Jacob & Son, Witherspoon bldg
†Nusbaum, Elias & Bro., 1519 Moravian
Parker, Thos., 530 Heed bldg
Patton, Rob't, 731 N 35th
Penna. Engineering Co., 1119 N. Howard
Peoples Bros. (Heavy Masonry, Sewer, etc.), 2508 Callawhill
Pepper, David, Jr. (Engineer & Contractor, Water Power Plants, Electric Roads, etc.), Commonwealth bldg
Peterson, R. Morris, 5250 Wakefield, Gtn.
Peterson, R. W. Co. (Street & Public). Land Title bldg
*Pinkerton Construction Co. (R. R. Masonry, etc.). Land Title bldg
Porter, Chas. A., Franklin Bank bldg
Quigg, Wm. H. Const. Co., 112 N Broad
†Register, A. L. & Co. (Contractors & Engineers), Fidelity Mutual Life bldg
Reilly, Thos., 1616 Thompson
Reilly, Webber & Mahony, Harrison bldg
*Reiter, Curtis & Hill (Sewer, Paving. R. R. & Public), Arcade bldg
Roydhouse, Arey & Co. (Building & Heavy Masonry), Fidelity Mutual Life bldg
Ruch, Geo. W. & Co. (Paving & Excavating), 2851 N Hutchinson
Ryan & Reilly (Public & Municipal), 26 S 15th
Sax & Abbott Cons. Co., 1326 Chestnut
Scofield Engineering Co. (Engineers & Contractors), Arcade bldg
*Shanley, J. F. & Co. (R. R. & Public). Arcade bldg
Simplex Foundation Co. (Caisson & Bridge Foundation). 3400 Disston
*†Sims, Chas. A. & Co. (Railroad, Water Work, etc., & Public Work), Harrison bldg
†Smethurst & Allen, North American bldg
*Smith, E. E. Contracting Co. (R. R. & Public), Arcade bldg
Snyder, Geo. F. & Co. (Street), Drexel bldg
Snyder & Co., Harrison bldg
*Sparks & Evans (Bridge, R. R. & Public), Rothschild bldg
Steele, Wm. & Sons, 1600 Arch
Sterling, Bowman S., 24th & Somerset
Stitzer, Jas. Herbert, Jr. (Buildings, Foundations, Reinforced Concrete, Municipal Work, etc.), Commonwealth Trust bldg
Thompson-Starrett Co. (Building Construction), North American bldg
Turnbull Construction Bldg., Penn. bldg
Vare, Edwin H. (Sewers, Conduits, etc.).
Vogt & Golden, 2900 N 22nd Betz bldg
Wiggins, John R., 1211 Filbert
PITTSBURG—Abel, A. F. (Pile Driving, Trestles. etc.), 1 Wood
Agostinis, P. (Masonry), 331 Bothwell
Alberts, W. E. Co., 5912 Walnut
Anderson, John, 2518 Hallket
Anthony, P. N. (Engr. & Contr.), 245 4th av
Bennett. Wm. B., 742 N Negley av
Berg & Melville, ft Creamo
Birch, Wm. M., 422 3d av
Bollinger-Andrews Const. Co., Empire bldg
Bollinger Bros. (General), Fulton bldg
†Booth & Flinn (Railroad & Municipal, Pipe Line & Tunnel Work). 1942 Forbes
Calhoon & Miller, 6200 Penn av
Campbell, D. J. & Co. (Building), 1302
Charlem, Theo., 1304 Locust Sandusky
Chisholm, W. M. & Son, 331 4th av
Clark Bros. Co., Branchport & Preble
Cochrane. Geo. A. Co., 1220 Columbus av
Collins-Gordon Contracting Co. (Masonry, etc.), Wabash bldg
Corcoran, Jas. G. Co. (Gen'l). House bldg
Coutts, Thos. Co. (Reinforced Concrete Construction)
Cranford Construction Co., House bldg
Cronin, Thos. & Co. (Paving & Sewer), 227
Cummings, Robt. A., 316 4th av S 17th
Cuthbert Bros. Co. (Furnace Builders). Bessemer bldg

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Dravo Contracting Co. (Heavy Masonry, Shaft Sinking & Government Work, etc.), Lewis blk
Driver, Chas. M. (Sewer & Masonry), McCance blk
Duquesne Construction Co. (General), Bessemer bldg
Eder Construction Co., Ferguson bldg
Egan, Thomas J. (Grading), 1721 Bluff
Enterprise Contracting Co. (Masonry, Trestles, etc.), Fulton bldg
Fair, D. M. & Son (General), Lloyd bldg
*Ferguson & Edmondson, Keystone bldg
Fleischer, Geo. 132 Cape May av
Foley Contracting Co., 12 Wabash
Frederick Bros., 1910 Beaver av
Friday Contracting Co., 331 4th av
Fritz, David, 642 Maryland
Garside, E. E. (Building), 516 Federal
*Gillespie, T. A. Co. (Railroad, Public & Waterworks), Westinghouse bldg
Groah, B. A. & Co. (Building, etc.), Empire bldg
Hagy, Elwood K., 5518 Claybourne
Henderson, John T., 139 Beitzhoover
Hilf, Daniel (Building), 11 Norton
Howley, John F. & Co., 237 4th av
Howley, Wm. E. & Co. (General), Frick bldg Annex
Ingersoll Construction Co., Keystone bldg
Kemnitzer, Geo. (Bldg), 320 Greentree
Kerr's Wm. Sons (Large Builders), Lewis blk
Krall, John H., 623 Turrett,
Krantz & McCoy (General), 365 Soho
Lambie, C. S. & Co., Wabash bldg
Lauer, J. & Son (Building), 810 Portland
Lawrence Steel Construction Co. (Mill & Factory Buildings, etc.), 3212 Smallman
Lowis & Wood, 327 1st av
Lougeay, Robert P., Douglas av
**LUCIUS ENGINEERING CO. (Contracting & Consulting Engineers), Hartje bldg, Pittsburg, Pa. (See adv. index, end of book)**
McGavern & Lytle (Inc.) (Bldg. & Gen'l), 311 2nd av
McLaughlin Contracting Co., 223 4th av
McQuade, Jas. H. Co., Bessemer bldg
McSorley, John (General), 6024 Penn av
McSpadden, J. C. (Public Work), 326 4th av
Miller, Wm. & Sons Co. (Bldrs. & General)
Mohney, C. L. & Co.. 615 Burd
*Moran, P., 5846 Bartlett
Morrison Bros. Co., 459 South
Mullen, J. L. (General Rigger), 306 4th av
Murdoch, Wm. H., Lewis blk
Neelen & Daly, 21st & Sidney
O'Hara, John A. & Son (Bldg), 1005 Forbes
O'Herron, M. & Co. (General), 1st & McKean
Ott Bros. (Sewer, Paving, Macadam, etc.), 414 Warrington av
*Patterson & Co.. Keystone bldg
Patterson & Shaw (General), 30 Reliance E
Payne, Wm. J., 116 Beltzhoover av
Pennsylvania Contracting Co., 209 9th
Pihl & Miller, Wabash bldg
**Pitt Construction Co., Fulton bldg**
*Pittsburg Construction Co. (Round Houses, Mill Building, Grading, Masonry, etc.), Diamond National Bank bldg
Purnell, A. V.. 507 Jarvella
Rahe, Joseph Co., 614 Bingham
Richardson, Jas. P. (Building, etc.), 136 Beltzhoover av
Richmond, Andrew & Son, 541 Wood
Ridge Bros. Co., 407 4th av
Riffle, David T., Keenan bldg
Robinson, Wm., 231 McKee pl
Rose & Fisher, Penna. av
Roth, John, 222 Wabana
Round Bros. (Masonry), 41 Beltzhoover av
Sawders Paving & Construction Co. (Sewer, etc.), Frick bldg
Scanlon, E. (Excavating, etc.), 6233 Station
Sheets. J. B. & Co. (General), Kelly & Murtland
Shenk, Henry Co. (Builders, etc.), Lewis blk
Smythe, S. R. Co., 213 House bldg
**STEWART, JAS. & CO. (Harbor, Marine & Heavy Buildings). Oliver bldg**
Stuart, James L., 341 6th av
Sweeney, Thos. Co. (Sewer), 4906 Cypress
†Tennis Co. (R. R. & Public Works), Magee bldg
Thompson-Starrett Co., 2d Nat'l B'k bldg
Trimble, John H. & Bro.. 2022 Charters
Trimble, W. F. & Sons Co. (Building), 1719 Penn. av
Umstead, J. C., 21 Wilson av Penn. av
Van Dusen, C. A. (Engrs. & Contrs.), Wabash bldg
Vollkommer & Co., Empire bldg
Waite, Wm. & Sons, Jane & 25th
†**WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation), Union Bank blg. (See adv. index & branch offices, end of book)**
Wilcox, E. C., 5408 Black
Wilson, A. S. Co. (Large Builders, etc.), 541 3d av
Wright, Wm. O. (Building, etc.), 121 S Highland av
Wyman, J. G. & Co. (Excavating & Grading), 434 4th av
Wymard, John K. (Paving & General), 915 Gerritt
Zahniser, W. J. & Bro., 4326 Butler

PITTSTON—Armstrong Co.
O'Boyle & Foy
POTTSTOWN—Showalter, J. W.
Wiand & Lapp
†*Willauer & Co. (Railroad & Public Work)
POTTSVILLE—Dietrich, Samuel & Son
Kerns, Thomas F. & Son
*King, Charles F.
Portland Contracting Co.
PUNXSUTAWNEY—Francis, J. E.
Harl, D. McKean & Son
Rese, Hiram
READING—*Ahrens, Howard E., Co. (Stone, Albrecht & Leader etc.)
Faust, John K.
Fisher, Charles H.
Focht, L. H. & Son (Builders, etc.)
Garman, N. H. & Bro.
*Hawman Bros. (Public Work)
Hawman Construction Co. (R. R. & Public), 231 S 4th
Kretz, Adolph H. (Building)
Krick, P. Monroe
Martin, John
Mayer, Jacob (Masonry & Excavating)
*Nolan Bros. (Railroad, etc.)
O'Reilly, Joseph
Rehr & Fricker (Large Builders, etc.)
Sharp, Wm. A.
ROCHESTER—McDonald & Hartman
Miller, Wm. & Sons Co.
SCRANTON—*Burke Bros.
Burke, Timothy
Fitzpatrick, John T.
Flanagan, Stephen & Son
Gibbons, P. F. (Building & General)
Hower & Stender
Kinsley, Charles R.
Kingsley & Westcott (Masonry, etc.)
Lathrope, Shea & Henwood Co.
Stipp, M. Construction Co.
SEWICKLEY—Beall, E. H.
Challis, D. W. & Sons
Dickson, Wm. & Son
Shearer Bros.
SHARON—Baker, C. C. Co.
McIntyre, Wm. & Sons (Sewer, Macadam, etc.)
Weaver, C. C.
Wishart, A. & Sons Co. (Inc.)
SOUTH BETHLEHEM—Danzer, Wm. F. & Co.
*General Crushed Stone Co. (Ballasting, etc.)
TITUSVILLE—Johnstone, Robert
UNIONTOWN—Burchinal & Frankberry (General)
Carr, Jno. D.
Conn, J. P.
Eggers, Charles F.
Humbert, B. F.
Ingraham, Wm. B.
Reagan, Lynch & Co.
South Penn. Bldg. Co.
Uniontown Construction Co.
WARREN—Offerle & Smith
Swanson, Theodore F.
WASHINGTON—Hallam Construction Co.
Hunter, N. C.
Pickett, Wm. & Co.
WEST CHESTER—Corcoran Construction Co.
Farrell, M. & T. E.
WILKES-BARRE—Behrens, O. J. & Son
Curtis, John & Co.
Dickover, George T. & Son (Heavy Masonry, etc.), Simon Long bldg.
Isaacs, R. D. & Son
Long, E. T. & Co.
Mitchell Bros.
Ritchie, John C.
Shepherd & Sons, W. H.
Stiver, Philip
Tamblin & Moyles
Thomas, John R.
Thomas & Kear
Wilkes-Barre Construction Co. (Sewer, Paving, etc.)
Wilson & Anderson
WILLIAMSPORT—Busch & Stewart
Carmichael, W. P. & Co. (Engrs. & Contrs.)
Coryell Construction Co. (General)
Harman Bros. (Bldrs., etc.)
Kelley, John D.
Stuempfle's, David Sons
WINKINSBURG—Coleman, Thos. A.
Corns, A. E.
Hoffman, F. J. & Co.
Lindsay, W. A.
Peffer, E. Z.
Robinson & James
Smith, S. L. & Co.
YORK—*Dobbling, John H.
York Construction Co.
York Stone Macadamizing & Grading Co.

## RHODE ISLAND.

EAST PROVIDENCE—McCormick, Joseph
Whitford, Stephen A.
NEWPORT—Booth, Alexander
Johnston, J. D.
Sullivan, J. F.
PAWTUCKET—Cruise & Smiley Const. Co.
Rowley, Frank G. Co. (Heavy Construction)
Smiley, Albert F.
Smith, Benj. F. Co. (Large)
PROVIDENCE—Baker, Richard J.
Ballou, F. M. Co.
Batchelder, Wm. W.
Bishop, J. W. Co. (Builders & Public Work)
Chapman, W. A. & Co. (Mills & Public)
Everson, E. W. (Public Work, Sewer, etc.)
Gammino, Frank A. & Son (Sewer, Water Works, Highway, Railroad, etc.)
Gilbane Building Co. (Builders. etc.)
Hartwell & Kingston (Large Builders)
Houlihan, Michael J. (Large Builders)
Humes Construction Co.
McKendall, Frank D.
Maguire, Chas. B. Co.
Norcross Bros. Co. (Builders & Public Work)
O'Donnell, John
Perry, T. A. (Sewer), 75 Westminster
Tank & McKinnon Construction Co. (Excavating, Dams, River, etc.)
*Shaw, Fred'k E. (R. R., Sewer & Public)
Williams, William
WARREN—Watson, E. K. Co.

## SOUTH CAROLINA.

CHARLESTON—Oliver, Henry (Building)
Simons, Mayrant Co. (Engineers & Contrs.)
COLUMBIA—Black & Coulter Co.
Cain, John J.
GREENVILLE—Ebaugh & Ebaugh
McGee, J. D.

## SOUTH DAKOTA.

ABERDEEN—Easton, Vance & Co.
Hofsos, R. K.
Lepper, C. Construction Co.
Narregang, Geo. B.
HURON—Harvey, R.
Jaehn, Frank
Whitney & Holton
LEAD—Phillips & Bartlett
ST. PIERRE—McMillen & Curran (Sewers etc.)
SIOUX FALLS—Booth, F. M.
Collins Bros.
Feneburst & Sons (Sewer, etc.)
Madel Bros.
WEBSTER—Tanner Bros. (Sewer, etc.)
WATERTOWN—Brickell Construction Co.
Stover Construction Co.

## TENNESSEE.

CHATTANOOGA—Adams & Schneider
Allen & Curry
Becking, Geo. (Bldr., etc.)
Boyce & Foust (Paving)
Brandon & Davis
Chickamauga Quarry & Construction Co. (Heavy Masonry, etc.)
Guild & Co. (Inc.), (Engineers & Contractors)
Guild & Co. & Daniels
Lieker, Fred'k
Long, Geo. Baker
Meers & Dayton
Moudy, T. F. & Co.
Noll Construction Co.
Southern Paving & Construction Co.
West Construction Co., Chamberlain bldg
Westcott, R. L., Chamberlain bldg
HUMBOLDT—Munroe, W. S. & Co.
KNOXVILLE—*Callahan Construction Co.
Getaz, David & Son Co. (Bldrs., etc.)
*Oliver, W. J. (Railroad & Public)
Oliver Bros. & Calloway
*Peters & Dykes
*Walton, Wilson, Rodes & Co.

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MEMPHIS—*Cary Bros. (Railroad, Levee, etc.), 350-370 Madison av
Cheshire, R. L., 852 Dixon av
Cole, J. E., Builders' Ex
Creson, Robert F., Builders' Exchange
Emmons, D. & Co., 61 Madison
*Garvey, Geo. W., 127 Madison av
Garvin Construction Co. (Sewer, Excavating, etc.), 691 Concord av
Hinson, S., Jr., Builders' Exchange
Hunter, Charles W. (General), 67 Monroe
*Jennings, Martin, 902 E Triggs av av
Johnson & Fleming (Water Works, etc.), Tenn. Trust bldg
Koehler Bros. (Paving), 68 Court av
McKnight & Barker, Builders' Exchange
Miller, Charles R. Paving Co. (Sewer & Paving), 8 N Front
Olson & Lesh Construction Co. (General), Royal bldg
Outzen, Andrerw (Levee & General), 1375 Madison av
Pritchard Bros., 642 S. Camilla
Roach, M. J., No. Mem. Sav. Bk. bldg
*Roach & Manigan, N. Memphis Savings Bank bldg
Roach & Stausell, No. Mem. Sav. Bk. bldg
Selden-Breck Construction Co., Tenn. Trust bldg
*Smith, C. D. & Co., Memphis Trust bldg
Southern Improvement Co. (Grading, etc.)
Talley, Bates Construction Co. (Levee & General), Goodwyn Inst. bldg
Tighe, V. Louis (Excavating, etc.), Builders' Exchange
Wagner, C. J. Lumber & Improvement Co. (General & Building), Builders' Exch
Young, F. B. (General), Mem. Trust bldg

NASHVILLE—Bush, W. G. & Co.
*Foster-Creighton-Gould Co. (Large Masonry, Bridge, Railroad, Dams, etc.)
Fulcher Brick Co.
Griffin, H. & Bro.
Guarantee Construction Co.
Lewis, E. T. Co. (General)
Lightinan, McDonald & Co.

## TEXAS.

AUSTIN—Fiegle, Geo.
Fischer, Francis
Shurr, C. A.
Wattinger, Jacob

BEAUMONT—Babin, A.
International Creosoting & Construction Co.
McKnight, M. A. & Co.
Whitney, W. C.

CADDO MILLS—North Texas Construction Co.

DALLAS—Murch Bros. Construction Co.
Slaughter, J. W. Construction Co.
Watson, Alex.

DENTON—Lovell, Thos. & Sons (Builders & Whitlock, M. B. & Co. General)

EL PASO—Holland, T. J.
Kroeger, Otto P.
Powers, Frank
Rattenbury & Davis
Turberville Construction Co.

FORT WORTH—American Construction Co.
Bardon, Jno.
Bryce, Wm.
Bryce Building Co.
General Supply & Construction Co.
Kuhlman & Blue
Newell, A. E.
*United States Construction Co.

GALVESTON—Bowden & North
Clarke, Chas. & Co. (River & Harbor)
Deats & Morris
International Creosoting & Construction Co.
Lucas, Wm.
Palliser, Robert

GARRISON—Henderson Brick & Construction

HALLETTSVILLE—McKnight, J. F. Co.

HOUSTON—Alsbury, E. P. & Son (Bridges, American Const. Co. (General) etc.)
Arpin, J. B. Dredging Co. (Harbor Work
Boyd, John (General) & Dredging)
Boyles. J. S. & Co. (Engrs & Contrs)
*Brammer, Jesse L. (R. R., etc.)
Cochran, Jerome Co. (Engrs & Contrs)
Davis Transfer Co. (Paving, etc.)
Delery, W. S. & Co. (General)
Dupree, Edmond F. (General)
Fitzgerald, Andrew N. (Paving, Pile Driv-
Gulf Concrete Const. Co. ing, etc.)
Hipp, Wm. S. (Paving, Grading. etc.)
*Horton & Horton (R. R. & General)
Hughes, R. Joyce Const Co. (Bldrs & Concrete Const.)
International Engineering Co. (Engrs. & Contrs.)
*Jarrett Const. Co. (R. R. & General)
Jones, Fred. A. Bldg. Co. (Engrs. & Bldrs.)
*Kinnear Bros. (R. R., Masonery, Sewer,
Lucas & Smith (General) etc.)
McAshan & Williams (General)
Maxcy, J. W. Co. (Engrs. & Contrs.)
McGonigle Jas. A. (General)
Parks, Jas. R. (General)
Parr & Sanderson (Bldrs. & General)
Pearson & Co. (General)
Pittman, Dallas D. (General)
Purdy, J. S. Lumber Co. (Bldrs. & General)
Shapley & Son (Bldrs. & General)
Stevens, H. L. Co. (General)
Stewart, Jas. & Co. (of New York), (Gen-
Studerman & Dolson (General) eral)
Texas Grading Co. (Grading, etc.)
Underwood, Jno. C. (Paving, etc.)
Winstedt Const. Co.
Young, Wm. H. (Bldrs. & General)

NEW BRAUNFELS—Moeller, Ad. F.

PLANO—North Texas Construction Co.

SAN ANTONIO—Balcom, O. A.
Boelhauwe, Chas. G.
Dawson, M. A.
Fincham, Chas. T.
Fuessel, Aug.
Garrett, John D.
Hagy, W. N.
Lindau, Otto
*Nelson, John P. Construction Co.
Perry, G. M.
Rheiner, Hy. D. & Bro.
Richter, Clemens
Scott, H. L. & Co.
Shields, P. T.
Wagner, Jacob H.
Weyel, Louis

SAN AUGUSTINE—Thompson, John Jr.

SAN MASCOS—Beasley, D. K.

SEGUIN—Goodrum, John W.

TEXAS CITY—Moore, Wm.

## UTAH.

OGDEN—*Utah Construction Co.

SALT LAKE CITY—Bacon, Geo. M. (Engr. & Contr.), 159 Pierpont av
Birch, S. & Sons Construction Co. (Engrs. & Contrs.)
Campbell Building Co. (Bldrs., etc.)
Davis & Heuser Const. Co. (Sewers, etc.)
Gilkerson, H. G. (Sewer, etc.)
Hanley, J. D. Const. Co. (Sewers, etc.)
McDonald, A. & J.

## VIRGINIA.

CHARLOTTESVILLE—Kind Lumber Co. (Bldrs., etc.)

CLIFTONFORGE—*Allegheny Cons. Co. (R. R., Public & Builders)

DANVILLE—Deitrich & Pearson
Graham, R. B.

HAMPTON—Richardson, R. H. & Son (Brick, Stone & Cement Construction)
Tennis Construction Co.
Trice, G. E. & Co. (Excavating, Grading, etc.)

LYNCHBURG—Hancock, C. W. & Son
Jones & Adams
Moorman Bros. Co.
Pettyjohn, J. P. & Co.

NEWPORT NEWS—Alsop & Peirce
Davis, J. W.
Harwood & Moss
Morgan, E.
Phipps, D. J.

NORFOLK—Banks, Geo. T. (Building, etc.)
Denby Grading Co.
East & Hobbs
McMahon, J. T.
Monk, Henry
Monk, John
Murray, W. D. & Co. (Government Work)
Norfolk Dredging Co. (River & Harbor)
Parlett & Parleet (Inc.)
Pierce, John H., Law bldg
Sands & Key (Inc.)
*Sanford & Brooks (R. R., Dredging, Harbor & Government Work)

PETERSBURG—Briseer, Chas. M.
Holt, J. W. & Son
Perkinson & Finn

RADFORD—Ingles, Wm.

PORTSMOUTH—Cross, E. & Son Co. (Dock
Johns, V. M. Bldrs., Dredging, etc.)
Oast, S. P.

RICHMOND—Ancarrow, Newton
Barry, Thos. A. & Co.
Bradley, W. B. Cons. Co., Dock nr 17th
Chesterman. Wirt A. (General), Chamber
Dietrich, Ernest J. of Commerce bldg
Gasser, Chas., 814 W Cary
George, H. H., Jr., 1831 Monument
Gilman, J. W. & Son, 911 W. Clay
Mankin Construction Co. (Inc.)
Netherland & Eubank, 2701 W Cary
Nuckols, John T.
Ragland, W. L. & Co.
Roney & Atkinson
Thomas, Jos. W. (Building, General)
Veitch, Walter P. (Paving, etc.)
Walkup, Alna M.
Wilson, John T. (Builder & General Contractor), Mutual bldg
Winston & Co., American Nat'l Bank bldg

ROANOKE—*Kirkbride, T. W. (R. R. & Public)
Roanoke Bridge Co.
*Vaughan Construction Co.

## WASHINGTON.

BELLINGHAM—Booker & Campbell Co.
Lind, C. E. (Grading)
Riddell & Hawkins
Trede, J. H. (Bldg., etc.)

EVERETT—American Pile Driving Co. (Bridge & Concrete Works, etc.)
Everett Construction Co.
McAdams, A. D.
McAdam, R. B.
Thorzing & Miley (Grading, etc.)

KENNEWICK—Bowers & Wright (Engrs. &

NORTH YAKIMA—Scott, Robert Contrs.)
Smith, S. Grant Co.

SEATTLE—Bamberg, Chas. H., 711 Summit
Bromley, H. C., 1308 3rd av av N
Cawsey & Lohse, Lowman bldg
Coombs, S. G., 524 5th av W
*Daley Chas. & Co., Bailey bldg
Dietrich & Misho, Globe blk
Donaldson, J. T. (Street), 3926 Aurora av.
Dow, David, 560 1st av S
Dow, Matthew, Walker bldg
Farnandis, S. C., 89 W Pine
Frank, Joe, American Bank bldg
Galler, John, Globe blk
General Engineering & Construction Co., Denny bldg
Hastie & Dugan, Washington bldg
International Contract Co. (General), Cen-
*Johnson, C. J., Bailey bldg tral bldg
Kieburtz, Smith & Rountree, N. Y. bldg
King & Winge, 5 Colman Dock
McKinnon, Norman (Grading), 1116 23d N
McLellan, F. & Co., Sullivan bldg
McGrath & Duhamel, White bldg
Morris, C. L. Co. (Inc.), Arcade Annex
Mougan & Price (Grading) Burke bldg
Normile Simon (Grading) 608 Kinnear pl
Olson, O. E., Am. Bank bldg
Pederson, Hans, Alaska bldg
*Peterson. A. H., 1118 13th av
Puget Sound Bridge & Dredging Co. (Dredging, Bridges, Foundations, Piers, Harbor, etc.)
Rounds. E. J. Co.. Globe blk
Ryan, T. & Co., Sullivan bldg
Smith. W. H. & Sons, Empire bldg
Sound Const. & Eng. Co. (Bldrs., etc.)
Steenstrup, Paul, Baiely bldg
Strehlow, Freese & Peterson, A. Y. P. E. Grounds
Sylliassen & Sands (Building, etc.), Arcade
White. A. E. Arcade Annex bldg
*White, W. H.. Central bldg
Woeck. Peter. Oriental blk

SPOKANE—Abbott & Johnson
*Bates & Rogers Construction Co.
Broad, James C.
Burns & Hall, Wolverton blk
Costello & Co. (Sewer & Public), 309 Wall
Cunningham. Jos. F., 318 Augusta av
*Hansen, Otto, 1220 11th av
Huetter, J. T., Ex. Bk. bldg
Jasper, Chas., 122 Wall
*McCreary & Willard (Railroad & Public)
*Mitchell, Harry (Excavating, Grading,
Murphy, M. Symons blk etc.)
Norman. N., Mohawk blk
Oliver, Wm.
Peterson. F., Fernwell bldg
Phair. Fred, Lindelle blk
*Porter Bros. & Welch (Railroad & Public)
Skinner, H. J. Peyton bldg
Stubbs, J. E. Contracting Co. (Bridges,
Twohy Bros. (Public Work) etc.)
Wilbert, Chas. D.-E., 3210 Illinois
*Welch. P. & Co. (Public Work)
*Winters, Parsons & Boomer (Public), Ziegler blk
†*Wren & Greenough (Railroad & Public)

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TACOMA—Barnett Const. Co.
Bertelson & Sons (Dock, Harbor & Paving)
Blows & Buell (Bldg. & General)
Bonnell, Jas. E. (Bldr. & General)
Coast Contracting Co.
Concrete Const. Co.
*Const. & Maintenance Co.
Cornell Bros. (Builders, etc.)
*Dibble-Hawthorne Co. (R. R. & General)
Erikson & Anderson (Cement, Stone, etc.)
*Felt, Eastman & Sprague
Gallucci & De Rosa (Sewer, etc.)
Guernsey & Co. (Grading, etc.)
Guernsey & Kincaid (Grading, etc.)
Hurley-Mason Co. (Concrete, etc.)
*Keasal Const. Co. (R. R., Bridge, etc.)
Kibler, Benj. W. (Paving, etc.)
*Lawson, Nicholas
*Lister Const. Co.
Miller-Delmont Co. (Bldrs., etc.)
Miller & Biehn (Bldrs. & General)
Murphy, W. J. (Concrete, etc.)
Nichols & Handley
Northwest Bridge Co. (General)
Olsen, O. J. (Sewer, etc.)
Pellgrin, Fredk. (Sewer, etc.)
Teeter, Ruben B. (Bldr. & General)
*Tivohy Bros.
*Tribert Bros.
Wells Const. Co.
Western Engineering Co.
Williams, D. A. Co.
*Winston Bros. Co.
*Wright & Sweeney Co. (General)
WALLA WALLA—McLean & McAllum
Snell, G. H.
Walla Walla Construction Co. (General)

## WEST VIRGINIA.

CHARLESTON—Minnatti, D.
Moore Construction Co.
Withrow, A. F. & Co.
CLARKSBURG—Offner, J. E.
Richards Conseruction Co.
FAIRMONT—Bennett, J. P.
Bennett & Talbott
Brady Construction & Engineering Co.
Brooks, H. C. Co.
Hall, Louis A.
Hamilton-Irvin Co.
Holbert & Spedden
KEYSER—Liller, W. A.
MORGANTOWN—Huston & Demain
Zevely-Casto Construction Co.
PARKERSBURG—Brady Construction & En-
Ohio Construction Co. gineering Co.
Prewett, C. W.
WHEELING—Bateson, W. & Co.
Blodgett, F. H. Co.
Fort Henry Construction Co.
Klieves Lumber Co.

## WISCONSIN.

APPLETON—Green & Sons Co. (Paving, etc.)
Hackworthy Construction Co. (Heavy Buildings, Concrete & Steel Bridges)
Mulholland & Son (Street & Public)
O'Keefe-Orbinson Engineering & Const. Co. (Eng. & Contractors Paper Mills, etc.)
BELOIT—McDonald, E. J. (Cement)
McDonald, Peter (Cement)
Rohles, Gus (Cement)
Wheeler, W. H. & Co. (General)
CHIPPEWA FALLS—Chippewa Falls Construction Co. (Stone, Builders, etc.)
EAU CLAIRE—Hoeppner-Bartlett Co. (Bldrs. & General)
GREEN BAY—Fabry, Louis (Concrete Const.)
Garot, Edw. (Sewer)
*Gilliland. Jno. M. (R. R. & Public)
Green, Adolph (Public Work)
Grieling Bros. (Harbor & Public)
Hansen, Ludolph
Hinkley, Julian W.
Hurkman, Anton (Sewer)
McGrath Construction Co.
Schaefer, Herman O. (Sewer)
Van Oss, Martin (Sewer)
Woodruff, Herbert E.
JANESVILLE—Cullen, J. P.
†Hayes Bros. (R. R. & General)
Janesville Contracting Co.
Ryan, P. W.
Shearer, James
LACROSSE—Groff & Deer Construction Co.
Lacrosse Stone Co. (Paving, etc.)
Nelson, Peter
Noble, C. W. Co. (General)
Schwalbe, Frank R.
Wooley & Hanson (Paving, Sewer, etc.)
EAU CLAIRE—Fish, E. M. Co.
MADISON—Johnson, N. J.
McCarthy, T. C. (General)
MANITOWOC—Pellett, W. (Dock, Harbor, etc.)
Pitz, L. K. (Engineer & Contractor)
Schreiter, A. C. (Sewer, etc.)
Schuette Cement Construction Co. (Concrete Work, Paving, etc.)
Trastek & Hermann (Street Work)
MARINETTE—Mulholland & Son (Sewers, etc.)
Striffler, John (Sewer, etc.)
Utke, Julius
MILWAUKEE—Austin Construction Co., 307 Grand av
Badger Const. Co. (General), 97 Wisconsin
Beck, Christian (General), 593 Otjen
Bossert, O. H. Co. (Builders & General)
Breest, Chas. (Masonry), 1152 9th
Buestrin Construction Co., 567 E Water
City Construction Co., Hathaway bldg
Cleary, White Const. Co., Railway Ex. bldg
*†Columbia Construction Co. (Inc.) (Engineers & Contractors), 106 Mason
Co-Operative Const. Co., Pabst bldg
Dahlman Construction Co., Majectic bldg
Danielson, B. J., 638 Mineral
Danielson, Daniel B., 874 Layton blvd
Donahue, J. & Son (Gen'l) 318 Bradford av
Donahue & Co., 320 Bradford av
Foster Construction Co., 114 Grand av
Fuldner Construction Co., Majestic bldg
General Const. Co. (Gen'l), Hathaway bldg
Gillen, Wm. H. (General), 902 Summit av
Great Northern Concrete Co., Germania bldg
Gutknecht, Wm. Jr. (Grading), 1065 8th av
Hansen, Robt. P. & Co., 529 26th av
Hartman, R. B., 120 Wisconsin
Hase, Henry, 2916 McKinley blvd
Hathaway, J. E. & Co., Canal & 1st av
Hove, Henry (Masonry), 1920 State
Jones, J. P. & Co., 386 Kenilworth pl
Kirchoff, Chas. A., 816 17th
Lewis Construction Co., Patton bldg
*McIntosh Bros., Pabst bldg
Madson, Christenson & Ingbretson, 377 31st
Majestic Const. Co., Merrill bldg av
Markey, Geo. J. (Street), 1150 Kinnikinnic
Matthews Bldg Co., Matthews bldg av
Meredith Bros. Co., 1043 Kinnikinnic av
Newton Engineering Co., 221 Grand av
Niezorawski, Frank & Sons, 870 Franklin pl
Northern Construction Co., 421 Milwaukee
O'Donnell Bros., 792 National av
Oldenburg, Fred (Masonry), 2624 Cherry
Pfister, Ludwig O., 600 21st av
Phoenix Ferro Concrete Co., Wells bldg
Rath Construction Co.
Raulf Construction Co., Patton bldg
Rice, P. J., 587 Clinton
Riesen's, Paul Sons, University bldg
Schmidt, Henry (Masonry), 653 21st
Schmitt, A. Co. (Masonry), 646 Oakland av
Schuett & Frey, 791 Weil
Sneddon, D. M. Co., 972 Kinnikinnic av
Starke, C. H. Dredge & Dock Co. (Public Work), Canal nr 1st av
Sterling Engineering & Construction Co. (Concrete & General Contracting)
Thiessenhauser, R. F., 325 16th av
Weiher, John (Grading), 878 Franklin pl.
White Construction Co., 97 Wisconsin
Wilke, L. (Masonry), 840 11th
Winter, Wm. (Masonry), 1025 2nd
Wisconsin Cement onstruction Co.
OSHKOSH—Doyle, Robert (Sewers, etc.)
Johnson, Chris. (Sewer & Paving)
Larson, Louis A. & Co. (Street Work)
Rasmussen, John & Son (Sewer, Excavating, Grading, etc.)
RACINE—Birdsall, R. R. (Paving, etc.)
Cape, Jas. & Sons (Sewer, Paving, Excavat-
Corse, Jas. (Bldr., etc.) ing, etc.)
De Vine, Thos. M. (Sewer, etc.)
Galloway, P. W. (Breakwater & Harbor)
Gillen, Edw. Dock, Dredge & Construction Co. (Dredging, Dock & Harbor)
Jones, John O. & Sons (Paving & Public)
Reichert Const. Co. (Sewer, Paving, etc.)
Thompson, Andrew Co. (Sewer, etc.)
SHEBOYGAN—Ackerman, Christ.
Braun, J. M.
SUPERIOR—McKenzie & Arris (General)
Schmidt Bros. & Hill (General)
Whitney Bros. (Dock, etc.)
WATERTOWN—Bartlett, Edward L. (Sewer, Paving, etc.)
WAUKESHA—Advance Construction Co.
WAUSAU—Krause, F. W. (Building, etc.)
Miller & Krause

## WYOMING.

LARAMIE—Arnold Co.

## Contractors (Paving)

(See Contractors, General; also Contractors, Asphalt Paving)

## Contractors (Railroad)

(See Names in Contractors, General, Marked with a (*) Star)

## Contractors (Sewer)

(See Contractors, General)

## 2256—Contractors (Solenoid Operated)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 2256a—Contractors (Water Works)

(See also Contractors, General)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2256b—Contractors (Wood Block Paving)

Booth & Flinn (Ltd.), 1942 Forbes av., Pittsburg, Pa.

## Contractors & Builders

(See Builders, Contracting; also Contractors, General)

## 2257—Contractors' Machinery (New & Second Hand)

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**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

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Wells Light Mfg. Co., Jersey City, N. J.

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## 2259—Contractors' Supplies (Second-Hand)

Haggerty Refining Co., 50 South, New York
Harrison, John (Est. of), 169 South, New York
Mertes Machinery Co., Milwaukee, Wis.
Mitshkun, M. Co., Detroit, Mich.
Williams Contractor's Supply Co. Rock Crushers, Cars, Scrapers, Girders, etc.), Columbus, O.

## 2260—Contractors' Tools & Supplies

(See also Barrows, Various Kinds; Blasting Fuse Caps, etc.; Buckets, Dumping, etc.; **Cars, Various Kinds**; **Carts, Various Kinds**; Concrete Mixers; Crowbars, etc.; Crushers, Rock & Ore; Derricks & Derrick Fittings; Dredging Machinery Builders; Drills, Various Kinds; Dynamite Manufacturers; Engines, Hoisting; Hoists, Various Kinds; **Jacks, Various Kinds**; **Locomotives, Industrial and Mine**; Picks, Various Kinds; Pile Driving Machinery; Plows, Contractors'; Powder Manufacturers; Pumps, Centrifugal; Railways, Portable; Road Machines and Graders; Rollers, Various Kinds; Rope, Manila and Sisal; Shovels, Steam; Tents, Contractors'; Tools, Various Kinds; Wire Rope; Wire Rope Tramways)

Adair, Geo. B. & Son, Seattle, Wash.
**AMERICAN HOIST & DERRICK CO.**, St. Paul, Minn. (See adv. index & branch offices, end of book)
**Aumen Machinery & Supply Co., Baltimore, Md.**
Austin, W. E. Co., Atlanta, Ga.
Baldwin, Frank, 33 South, New York
Baum Iron Co., Omaha, Neb.
Beals & Co., Buffalo, N. Y.
**BEGGS, JAMES & CO., Liberty & Church, New York**
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Bickerton, T. B., 23 N 6th, Phila., Pa.
Blackwell, P. A. & Co., Henderson, Ky.
Blaine Contracting & Supply Co., 143 Liberty, New York
Bond, Harold L. Co. (Tools & Machinery), 383 Atlantic av, Boston, Mass.
Brandeis Machinery & Supply Co. (Machinery & Tools), Louisville, Ky.
Braunfels, Gilbert, 1940 Park av, New York
Brodie, Wm. H. Co., 45 Vesey, New York.
**Builders' Material Supply Co., Scarritt bldg, Kansas City, Mo.**
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Chandler, Geo. M., Indianapolis, Ind.
**Channon, H. Co. (Tools & General Supplies), 32 Market, Chicago, Ill.**
Chevalier, C. G. & Co., Baltimore, Md.
**Conard, Thos. P. & Co., 15th & Market, Phila., Pa.**
Cooley, Geo. M. Co. (Inc.), San Bernadino, Cal.
Crerar, Adams & Co., 239 E. Erie, Chicago.
Dallett & Co., 15th & Market, Phila., Pa. Ill.
Davies, Frank Co., New Orleans, La.
Dienst, A. P. & Co., 3d av & 140th, New York
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Fairbanks Co., 186 Lafayette, New York
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Fitts, Frank E. Mfg. & Supply Co., 88 Purchase, Boston, Mass.
Fones Bros. Hdw. Co., Little Rock, Ark.
Foster, David S. Sons & Co., Utica, N. Y.
Fox Bros. & Co., 126 Lafayette, New York
Frick & Lindsay Co., Pittsburg, Pa.
General Mercantile Co., Buffalo, N. Y.
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Harvey, H. H., 606 Atlantic av, Boston, Mass
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Henion & Hubbell, 223 N Jefferson, Chicago, Ill.
Hirsch, I. C. Iron-Steel & Rail Co. (Light Locomotives, Cars, etc.), Cincinnati, O.
Hobbs-Newby Equipment Co., Norfolk, Va.
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Irving Mfg. & Tool Co., 169 Chambers, New York
James Supply & Hardware Co., Chattanooga, Tenn.
Johnston, Wm. T. Co. (Full Line), Cincinnati, O.
Kendall, J. B. Co., Washington, D. C.
Kirwan, Robirds Supply Co., Baltimore, Md.
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Larkin, M. D. Supply Co., Dayton, O. Pa.
**LAWRENCE IRON & STEEL FOUNdry Co.** ("Blake" Rock & Ore Crushers), 400 32nd, Pittsburg, Pa. (See adv. index, end of book)
Lee Bros. (Everything for Contractors), Memphis, Tenn.
Lee-Glass-Andreesen Hardware Co., Omaha,
Lehmer, Jos. R., Omaha, Neb. Neb.
Livermore, Norman B. & Co. (All Kinds of Contractors Machinery), Rialto bldg, San Francisco, Cal.
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**MARSH-CAPRON MFG. CO., 480 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Maryland Equipment & Supply Co., Calvert & Fayette, Baltimore, Md.
**MILBURN, A. ALEXANDER CO.** (Portable Acetylene Lights), 505 W Lombard, Baltimore, Md. (See adv. index, end of book)
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Motley, Thornton N., 12 John, New York
**Motley, Green & Co. (Inc.), 68 Broad, New York**
Myers, Payne Co., 130 Front, New York
Myers, Geo. A. & Co. (Inc.), Paterson, N. J.
Neal & Scott Co., 81 Warren, New York
New York Machinery Exchange, 50 Church, New York
Olney & Warrin, 66 Centre, New York
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Somers, Filter & Todd Co., Pittsburg, Pa.
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Syracuse Supply Co., Syracuse, N. Y.
Todd-Donegan Iron Co., Louisville, Ky.
Topping Bros. (Picks, Shovels, etc.), 122 Chambers, New York
Vermlye & Power, 50 Church, New York
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Wilmot Machinery Co., New Orleans, La.
Wright-Dana Hardware Co., Utica, N. Y.

## 2261— Controllers (Coal & Ore Bridge)

**CUTLER-HAMMER MFG. CO. (Electric)**, Milwaukee, Wis. (See adv. index, end of book)

## Controllers (Crane)

(See Crane Controllers, Electric)

## Controllers (Draft)

(See Regulators, Heat)

## Controllers (Drum, Electric)

(See Controllers, Electric Hoist)

## 2262—Controllers (Electric Elevator)

**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
**Automatic Switch Co. (Full Automatic & Electro Magnetic), 131 Liberty, New York**
Burdette-Rountree Mfg. Co., 515 Laflin, Chicago, Ill.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.** ("Ideal"), Mansfield, O. (See adv. index & branch offices, end of book)
Keystone Elevator Inspection & Repair Co. ("Sundth"), 1001 Chestnut, Phila., Pa.
Monitor Mfg. Co., 106 S Gay, Baltimore, Md.
**OTIS ELEVATOR CO., 17 Battery pl.** New York. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Westinghouse bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2263—Controllers (Electric Fan)

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**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

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**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 2265— Controllers (Electric Motor)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Electric Fuse Co. ("Allen-Bradley"), Muskegon, Mich.
**Automatic Switch Co.** (Motor Driven Elevator, Alternating & Direct), 131 Liberty, New York
**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**Monitor Mfg. Co., 106 S Gay, Baltimore, Md.**
**New York Electric Controller Co., 35 Rose, New York**
United Pump & Power Co. ("Perry"), 84 Van Buren, Chicago, Ill. Works: Clyde, Ill.
**WESTINGHOUSE ELECTRIC & MFG. Co. (For Railway & Industrial Motors),** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2266—Controllers (Electric Pump)

**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG.** Co., Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 2267—Controllers (Electric Speed)

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**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
**Ideal Electric & Mfg. Co. ("Ideal"), Mansfield, Ohio**
**Lutz-Lockwood Mfg. Co., Aldene, N. J.**
**Monitor Mfg. Co., 106 S Gay, Baltimore, Md.**
**MORGAN ENGINEERING CO.** (Reversible), Alliance, O. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)

## 2268— Controllers (Emery Wheel Speed)

Ransom Mfg. Co. ("Ransom"), Oshkosh, Wis.

## 2269—Controllers (Fire & Flame, Automatic)

Combustion Utilities Co., 60 Wall, New York

## 2270—Controllers (Hoisting Engine)

Franklin Iron Works ("Allison"), Port Carbon, Pa.

## 2271a—Controllers (Low-Pressure Boiler Feed Water)

**STRONG, CARLISLE & HAMMOND** Co. (Hdromatic), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 2272—Controllers (Machine Tool)

**CUTLER-HAMMER MFG. CO.** (Electric), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG.** Co., Cleveland, O. See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 2273—Controllers (Mill Table)

**CUTLER-HAMMER MFG. CO.** (Electric), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)

## 2274—Controllers (Open Heater Feed Water)

**STRONG, CARLISLE & HAMMOND** Co. (Hydraulic), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 2274a—Controllers (Pneumatic Water Supply)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## Controllers (Printing Press, Electric)

(See Controllers, Machine Tool)

## Controllers (Pump)

(See Governors, Pump; also Controllers, Electric Pump)

## 2275—Controllers (Railway Motor)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Arndt Electric Controller Co., Oakland, Cal.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2276—Controllers (Rate, for Fitters, Etc.)

**Simplex Valve & Meter Co., 112 N Broad, Phila., Pa.**

## 2277—Controllers (Rheostatic)

**Automatic Switch Co., 131 Liberty, New York**
**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

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**Haines, Wm. S., Co. ("Haines" Automatic), 136 S 4th, Phila., Pa.**

## 2280—Converter Bottoms (Brick)

Haines, Wm. S. Co. ("Haines" Automatic), 136 S 4th, Phila., Pa.

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**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
Pennsylvania Engineering Works, New Castle, Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York
Stoughton Engineering Co. (Removable Bottom), 165 B'way, New York
Tod, Wm. Co., Youngstown, O.
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Manitowoc Engineering Works, Manitowoc, Wis.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv index & branch offices, end of book)
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Union Iron Works Co., San Francisco, Cal.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 2283—Converters (Electric)

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**ECK DYNAMO & MOTOR CO., Belle**ville, N. J. (See adv. index, end of book)
**GENERAL ELECTRIC CO. (Rotary),** Schenectady N. Y. (See adv index & branch offices, end of book)
Union Iron Works Co. (For Copper), San Francisco, Cal.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Rotary), Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2284—Converters (Multicycle Vibrating)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Holtzer-Cabot Electric Co., Brookline, Mass.

## 2285—Converters (Rotary)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2286—Converters (Steel Casting)

Bretand, J. V. ("Bretand"), Detroit, Mich.
Stoughton Engineering Co. ("Seco"), 165 B'way, New York

## 2287—Converters (Steel, Side Blown)

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**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2288— Conveyor Troughs

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
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Hendrick Mfg. Co., Carbondale, Pa.
Heyl & Patterson, Pittsburg, Pa.
**INSLEY MFG. CO. (For Concrete),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av & Reading Ry., Phila., Pa.** (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
Nordyke & Marmon Co., Indianapolis, Ind.
Specialty Engineering Co., Phila., Pa.

## 2289—Conveyors (Air Pressure)

Darley Engineering Co. (For Handling & Separating Materials), 90 West, New York

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**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill.** (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Steel), Hunting Park av. & Reading Ry., Phila, Pa.** (See adv. index & branch offices, end of book)
Mey, Chain Belting Eng'ng Works, Buffalo, N. Y.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E North av,** Chicago, Ill. (See adv. index, end of book)

## 2291—Conveyors (Apron Endless)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)

## 2292—Conveyors (Automatic Power)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 2293—Conveyors (Bag Filler)

**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill.** (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E North av,** Chicago, Ill. (See adv. index, end of book)

## 2294— Conveyors (Batch)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)

## 2295— Conveyors (Belt)

**ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end**
Alvey-Ferguson Co., Louisville, Ky. of book)
American Machinery & Construction Co., Milwaukee, Wis.
**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index & branch offices, end of book)
Beaumont, R. H. Co., Drexel bldg., Phila., Pa.
Blaisdell Co. (For Mines, etc.), Los Angeles, Cal.
Bonnot Company, Canton, O.
**BOSTON BELTING CO., 256 Devon**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Conveying Weigher Co. (Ball Bearing), 90 West, New York
Dodge Mfg. Co., Mishawaka, Ind.
Eagle Foundry & Machine Co., Fort Scott, Kans.
Gregg Co. (Ltd.) (For Sugar Cane, etc.), Lodi, N. J.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Howe Scale Co., of Illinois ("Harrison"), 1315 Wabash av, Chicago, Ill.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Manufacturers' Equipment Co., Dayton, O.
**MEAD-MORRISON MFG. CO., Cam**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Moore & Lorenz Co., 2144 W Fulton, Chicago, Ill
Nordyke & Marmon Co., Indianapolis, Ind.
**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv index & branch offices, end of book)
Pyott Co., 945 Carroll av, Chicago, Ill.
Robins Conveying Belt Co., Passaic, N. J.
Rolled Steel Link Belt & Conveyor Co., 150 B'way, New York
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Stephens-Adamson Mfg. Co. ("S-A"), Aurora Ill
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO. (Standard Spi**ral), 853 E North av, Chicago, Ill. (See adv. index, end of book)

## 2296a—Conveyors (Bottle)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 2297— Conveyors (Brick)

Alvey-Ferguson Co., Louisville, Ky.
**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index & branch offices, end of book)
**BOSTON BELTING CO., 256 Devon**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Fate, J. D. Co., Plymouth, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**MATHEWS GRAVITY CARRIER CO.** (Gravity Brick Carriers), Merriam Park, St. Paul, Minn. (See adv. index, end of book)
**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)
Robins Conveying Belt Co., Passaic, N. J.
Scott-Madden Iron Works Co., St. Louis, Mo.
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**WELLER MFG. CO., 853 E North av,** Chicago, Ill. (See adv. index, end of book)
Wellington Machine Co., Wellington, Ohio

## 2297a—Conveyors (Bridge)

**EXETER MACHINE WORKS, Pitts**ton, Pa. (See adv. index & branch offices, end of book)

## Conveyors (Cable)

(See Conveyors, Wire Cable; also Tramways Wire Rope)

## 2298—Conveyors (Canners')

Alvey-Ferguson Co., Louisville, Ky.
**BOSTON BELTING CO., 256 Devon**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Climax Machinery Co., Indianapolis, Ind.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones Machine Co. (Can Chute Fluxers & Conveyors), Baltimore, Md.
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## 2300– Conveyors (Chain)

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**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co. (Countershafts), Mishawaka, Ind.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Garland, M. Co. (Steel Chain), Bay City, Mich.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
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Koehler Bros., Saginaw, Mich.
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
Mey Chain Belting Eng. Works, Buffalo, N. Y.
Moore & Lorenz Co., 2144 W Fulton, Chicago, Ill.
**PITTSBURG CONVEYING MACHIN-**ery Co., Pittsburg, Pa. (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
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**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
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## 2301– Conveyors (Clay)

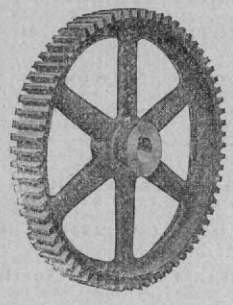
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Alvey-Ferguson Co., Louisville, Ky.
American Clay Machinery Co., Bucyrus, O.
Arnold-Creager Co., New London, O.
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Bonnot Co. (& Clay Elevators), Canton, O.
**BOSTON BELTING CO., 256 Devon-**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
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Helmick Fdry & Machine Co., Fairmont, W. Va.
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Robins Conveying Belt Co., Passaic, N. J.
**PITTSBURG CONVEYING MACHIN-**ery Co., Pittsburg, Pa. (See adv. index, end of book)
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## 2302– Conveyors (Clinker)

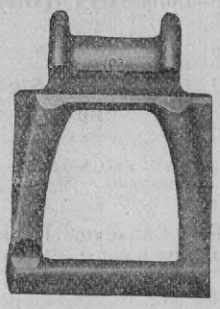
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Johnson Engineering & Construction Co. (Slide Roller Chain), Battle Creek, Mich.
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**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)
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**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
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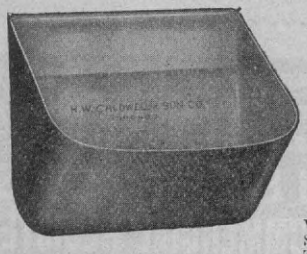
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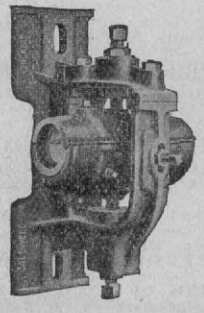


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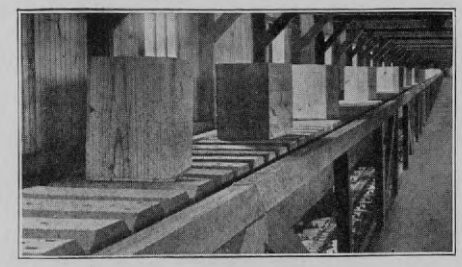
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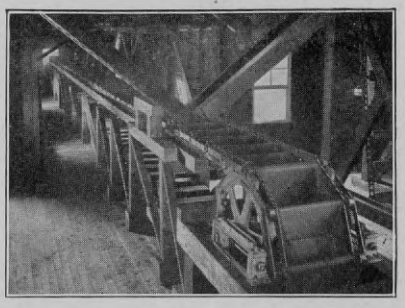
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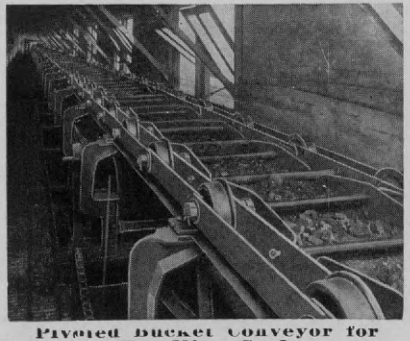
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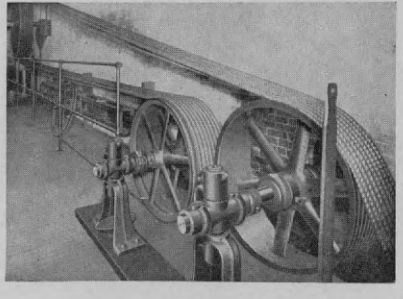
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**Hendricks' Commercial Register**

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Herzler & Henninger Machine Works (For Coal Mines), Belleville, Ill.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
**Hunt, C. W. Co. (Noiseless Gravity), West New Brighton, S. I., N. Y.**
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**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
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McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
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## 2306—Conveyors (Cotton & Wool)

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## 2308—Conveyors (Fertilizer)

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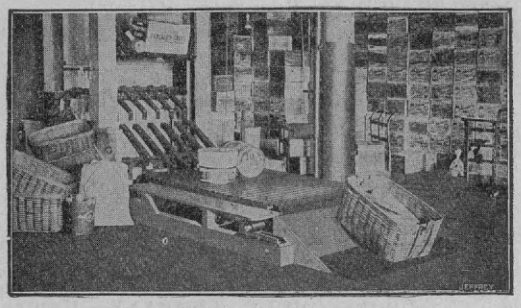
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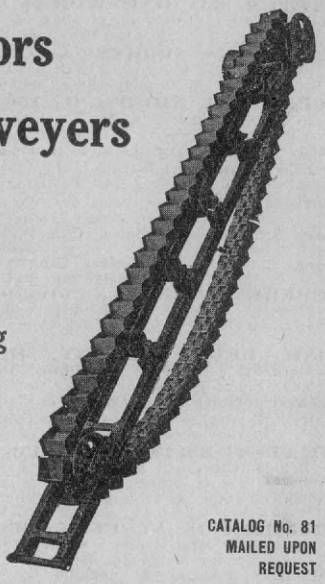
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**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
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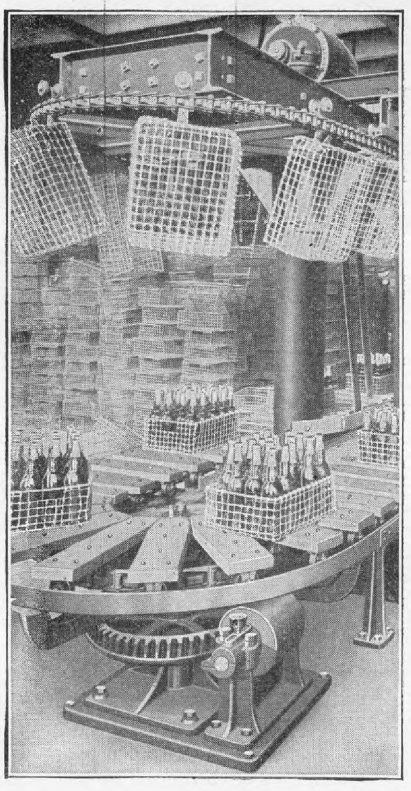
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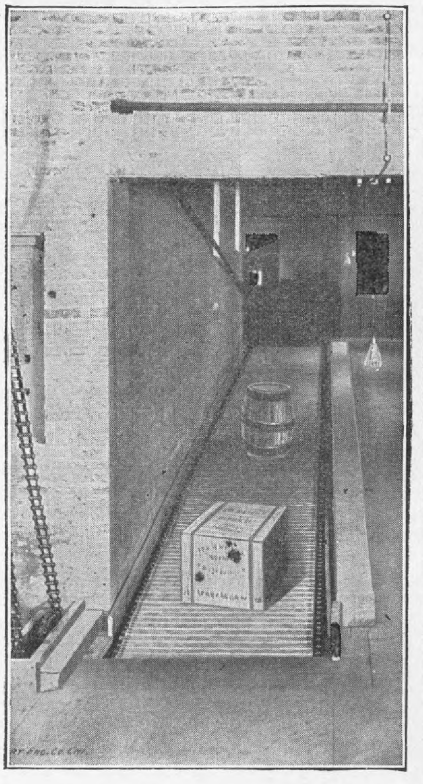
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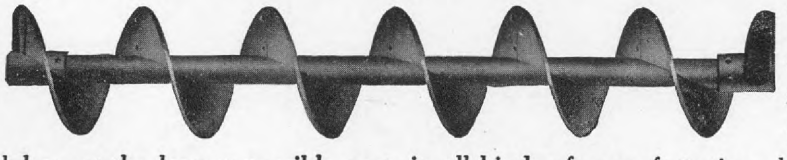


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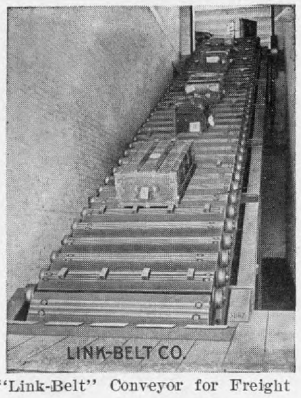
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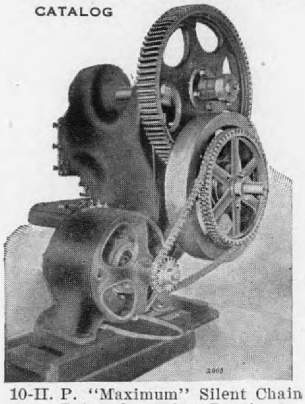
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Niles Steel Tank Co., Niles, Mich.
Northw't'n Steel & Iron Wks., Eau Claire, Wis.
Rippley Hardware Co. (Steam), Grafton, Ill.
**Ross Supply Co.,** Greenville, O.
Sperry, D. R. & Co., Batavia, Ill.

## 2338— Cookers (Fireless)

Sikes, A. L. Mfg. Co. ("Quad", Electric), Cincinnati, O.
Toledo Cooker Co. ("Ideal"), Toledo, Ohio

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## 2339— Cookers (Fish)

Renneburg, E. & Sons Co., Baltimore, Md.

## 2340— Cookers (Steam)

American Woodenware Mfg. Co., Toledo, O.
Bramhall-Deane Co., 261 W 36th, New York
Buffalo, N. Y.
Central Stamping Co., 174 Fulton, New York
Chicago Novelty Co., 1316 Clybourn av., Chicago, Ill.
Manning, Bowman & Co., Meriden, Conn.
Republic Metalware Co. ("Perfect," "Savory"), Buffalo, N. Y.
Toledo Cooker Co. ("O-Hi-O"), Toledo, O.
Wolterstorff-Haskell Range & Furnace Co., St. Paul, Minn.
Wrought Iron Range Co., St. Louis, Mo.

## 2341— Cooking Apparatus

Bangs, Jno. D. & Co., 296 Wabash av, Chicago, Ill.
Blodgett, G. S. Co., Burlington, Vt.
Born Steel Range Co., Cleveland, O.
Bramhall, Deane Co., 264 Water, New York
Bramhall Range Co., 81 Market, Chicago, Ill.
Carmichael Range Co., 50 W Kinzie, Chicago, Ill.
Carpenter, Cyrus & Co., Boston, Mass.
Clad, V. & Sons, 239 S 12th, Phila., Pa.
Crane, W. M. Co., 16 W 32d, New York
Dougherty, W. F., 158 N 9th, Phila., Pa.
**DUPARQUET, HUOT & MONEUSE CO.,** 43 Wooster, New York. (See adv. index & branch offices, end of book)
Fischer, Wm. G. Stove & Range Co., Cincinnati, O.
Hutchison Bros., Baltimore, Md.
Ils, John G. & Co., San Francisco, Cal.
Ingram, W. H., 106 N 3d, Phila., Pa.
Lotze, A. Sons & Co., Cincinnati, O.
Majestic Mfg. Co., St. Louis, Mo.
Malleable Steel Range Mfg. Co., South Bend, Ind.
Mangrum & Otter, San Francisco, Cal.
Miller, A. G. (Coffee Urns), 106 Centre, New York
Miller, Wm. Range & Furnace Co., Cincinnati, O.
Morandi-Proctor Co., 48 Union, Boston, Mass.
New York French Range Co., 246 Fulton, New York
Richardson & Boynton Co., 31 W 31st, New York
Sexton, S. B. Stove & Mfg. Co., Baltimore, Md.
Sheppard, Isaac A. & Co., 1801 N 4th, Phila., Pa.
Van, John Range Co., Cincinnati, O.
Walker & Pratt Mfg. Co., Boston, Mass.
Webb, Elisha & Son (Marine, also Lighting Apparatus), 136 S Front, Phila., Pa.
Wolterstorff-Haskell Range & Furnace Co., St. Paul, Minn.
Wrought Iron Range Co., St. Louis, Mo.

## 2342— Cooking Apparatus (Acetylene)

Davis Acetylene Co., Elkhart, Ind.

## 2343— Cooking Apparatus (Electric)

American Electrical Heater Co. (Heaters, Broilers, etc.), Detroit, Mich.
**CUTLER-HAMMER MFG. CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Simplex Electric Heating Co., Boston, Mass.
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2344—Cooking Apparatus (Gas)

Blodgett, G. S. Co., Burlington, Vt.
**DUPARQUET, HUOT & MONEUSE CO.,** 43 Wooster, New York. (See adv. index & branch offices, end of book)

## 2345— Coolers (Air)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CLAYTON AIR COMPRESSOR W'KS.** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LAIDLAW-DUNN-GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Schutte & Koerting Co. ("S. & K." Film), 1251 N 12th, Phila., Pa.

## 2346— Coolers (Beer)

Brunswick, Balke, Collender Co., 263 Wabash av, Chicago, Ill.
Economy Cooler Co., Buffalo, N. Y.
Deckebach, F. C. Sons Co., Cincinnati, O.
Hall, Amos H. Son & Co., Philadelphia, Pa.
Otto, J. M. (Cast Iron Surface), 46 Maujer, Brooklyn, N. Y.
Ross' August Son, 429 E 91st, New York
Standard Hygienic Cooler Co. (Inc.), 1 Madison av, New York
Stevens, B. A. Co., Toledo, O.
Strater, H. & Sons, Boston, Mass.

## 2347—Coolers (Chemical Wood)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 2348— Coolers (Clinker)

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**CONNERY & CO., 9th & Master,** Phila., Pa. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
Power & Mining Machinery Co., Cudahy, Wis.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)

## Coolers (Disc)

(See Stoneware, Chemical)

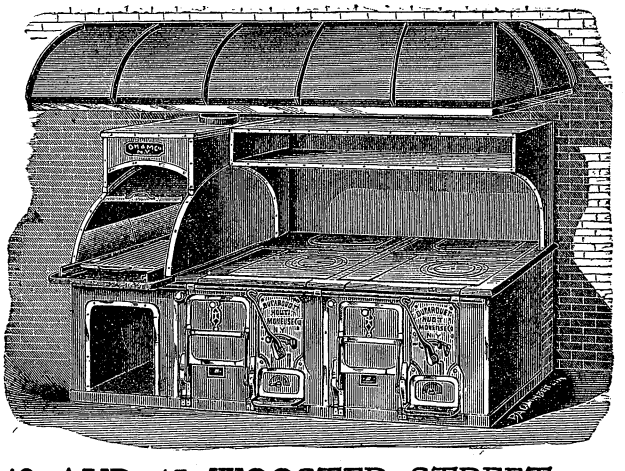
## 2349— Coolers (Lead)

Schutte & Koerting Co., 1251 N. 12th, Phila., Pa.
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York


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## 2350— Coolers (Oil)

Schutte & Koerting Co. ("S. & K." Film), 1251 N 12th, Phila., Pa.

## 2351— Coolers (Ore)

Stearns-Roger Mfg. Co. ("Edwards"), Denver, Colo.

## 2352— Coolers (Water)

**American Woodenware Mfg. Co., Toledo, O.**
**Barron, G. F. Cooler Co., Rochester, N. Y.**
**Boston Filter Co. ("Boston"), Chelsea, Mass.**
**Briscoe Mfg. Co. ("O-Rib-O"), Detroit, Mich.**
**Buffalo Mfg. Co. ("Jewett," "New Era"), Buffalo, N. Y.**
Carter Filter Co., Lockport. N. Y.
**Central Stamping Co., 174 Fulton, New York**
Consumer Cooler Co. ("Useit," Fits Any 7 Leonard, New York
**Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.**
**Cordley & Hayes ("Fibrotta" Fibre Ware), 7Leonard, New York**
**Dover Stamping & Mfg. Co. (Galvanized Tank & "Dover" Wood Jacket), Cambridge, Mass.**
**Dressel Railway Lamp Works (For Locomotive or Railway Use, with Handle Attached), 3860 Park av., New York**
Everson, C. G. & Co. ("Evanson"), 116 Lake, Chicago, Ill.
**Fulper Pottery Co., Flemington, N. J.**
**Hale & Kilburn Mfg. Co., 18th & Lehigh av, Phila., Pa.**
Ideal Water Cooler Co. ("Ideal"), Monadnock blk., Chicago, Ill.
**Krein Mfg. Co. ("Krein"), Wapakoneta, O.**
**Lalance & Grosjean Mfg. Co., 299 B'way, New York**
Mace, L. H. & Co., 111 E Houston, New York
Manning, Bowman & Co., Meriden, Conn.
**MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)**
Republic Metalware Co., Buffalo, N. Y.
Sloan Sales Co. ("Sloan", Air Tight), Kansas City, Mo.
**Sturges & Burn Mfg. Co., 508 Green, Chicago, Ill.**
**Union Cooperage Co. ("U. C."), St. Louis, Mo.**
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)**
**Wilson & Friend Co., 3136 S Canal, Chicago, Ill.**

## 2353— Cooperage (Stock)

Adams, J. A. & Sons Co. (Tight Staves for Whiskey, Oil & Pork Barrels, etc.), Rustin, La.
Alabama Cooperage Co. (Yellow Pine Heading, etc.), Calera, Ala.
American Land, Timber & Stave Co. (Beer & Ale Staves & Heading, etc.), Memphis, Tenn.
Arcola Stave Co. (Slack Staves of Elm & Hardwoods), Arcola, Ind.
Arkadelphia Milling Co. (Tight Barrel Staves, Kiln Dried & Jointed, Bucked & Sawed; Whiskey, Oil, Tierce & Cut Staves), Arkadelphia, Ark.
Beebe Stave Co. (Ash & Cottonwood Staves & Heading & Coiled Elm Hoops), Little Rock, Ark.
Blou, Hiram & Co. (Tight & Slack Staves & Heading), Louisville, Ky.
Bolz-McBride Cooperage Co. (Slack Staves & Heading), St. Louis, Mo.
Booser, Geo. A. (Slack Barrel Stock of Every Description), Corning, Ark.
Calcutt, N. W. Co. (Tight Barrel Staves & Heading). Dyersburg, Tenn.
Caruthersville Cooperage Co. (Coiled Elm Hoops), Caruthersville, Mo.
Chickasaw Cooperage Co. (Shooks & Barrels), Memphis, Tenn.
Chittenden, C. E. & Co. (Slack Staves for Sugar, Flour, Cement & Fruit Barrels; Basswood & Hardwood Heading & Coiled Elm Hoops), Ashley, Mich.
Christenson Mfg. Co. (Basswood Heading & Slack Barrel Staves), Withee. Wis.
Coleman, W. H. Co. (Tight Barrel & Circled Heading), Jackson, Tenn.
Dinwiddie Stave Co. (Gum, Syrup, Glucose Staves & Heading), Louisville. Ky.
Earle Cooperage Co. (Slack Ash & Elm Barrel & Butter Tub Stock), Earle, Ark.
Fellers. J. P. & Co. (Everything in the Way of Slack Cooperage for Cement, Fruit, Glass Barrels, etc.), Lyons, O
Forcum, H. & Co. (Slack & Tight Stock), Obion, Tenn.
Friedlaender & Oliven Co. (White Oak & Gum Staves & Heading), New Orleans, La.
Frisco Stave Co. (Tight Staves & Heading, Ash Pork Staves a Specialty), Jonesboro, Ark.
Fuqua, J. J. (Tight Stock, White & Red Oak, Sawn Staves & Heading), Milan, Tenn.
Greenwood Heading & Lumber Co. (Basswood Heading), Greenwood, Wis.
Greif Bros. Co. (All Kinds of Slack Stock). Cleveland, O.
Hall, Jas. B. (Beer Staves & Heading, etc.), Lexington, Ky.
Hall, W. P. Stave Co. (Slack Stock, also White Ash Butter Tub Staves), Memphis, Tenn
Hampton Stave Co. (Tight Stave Stock), Fordyce, Ark.
Hanna, Brackenridge Co. (Slack Stock, Staves, Heading & Hoops), Fort Wayne, Ind.
Harlan-Morris Mfg. Co. (Tight Stock, White & Red Oak), Trenton, Tenn.
Heidt, C. & Son (Staves, Headings & Hoops). Jersey City, N. J.
Henning, E. (Slack & Tight Staves, Heading & Hoops), 143 Lasalle, Chicago, Ill.
Hollingshead, J. D. Co., 218 Lasalle, Chicago, Ill.
Jackson & Tindle (Slack Staves, Heading & Hoops), Buffalo, N. Y.
Jasper Stave & Heading Co. (Slack Hardwood Stock), Jasper, Ind.
McLean, J. F. (Tight Stock), Nashville, Tenn.
Major Stave Co. (Tight Stock, White & Red Oak & Ash Staves), Ashdown. Ark.
Manufacturers' Cooperage Co. (Slack Stock), St. Louis, Mo.
Martin Stave Co. (Tight Barrel Staves), Haynesville, La.
Memphis Stave Mfg. Co. (Slack Stock, Elm, Gum, Sycamore, etc.), Memphis. Tenn.
Mill Shoals Cooperage Co. (Slack Stock Gum, Sycamore, Elm & Ash), St. Louis, Mo.
Moore, L. E. Stave Co. (Beer Staves, etc.), New Orleans. La.
Mt. Olive Stave Co. (Tight Staves & Heading), Batesville, Ark.
National Cooperage & Woodenware Co. (Tight, White Oak & Gum Staves & Heading), Peoria, Ill.
National Mfg. Co. (Slack), Detroit, Mich.
Northern Ohio Cooperage & Lumber Co. (Slack Staves), Parkin, Ark.
Ozark Cooperage & Lumber Co. (Gum Staves, etc.). St. Louis, Mo.
Pekin Stave & Mfg. Co. (Tight, Staves & Heading), Pekin, Ill.
Pennypacker, W. G. Jr. (Slack Stock), Buffalo, N. Y.
Pennoyer, J. C. Co. (Slack & Tight), 226 Lasalle, Chicago, Ill.
Pensacola Stave Co. (Slack, Specialty Butter Tub), Pensacola. Fla.
Ritzwoller, M. H. Co. (Tight Staves, Sawed & Bucked, Liquor, etc.). W 48th & Hoyne av, Chicago, Ill.
Russell, Frank B. (Beer Staves), Louisville, Ky.
Voltermann, F. H. (Tight. White & Red Oak, Ash, Gum & Cypress), Brownsville, Tenn.
Walsh Mfg. Co. (Keg & Barrel Hoops & Staves), Pittsburg, Pa.
Welch Stave & Heading Co. (Beer Keg Staves & Heading), Monterey, Tenn.
Whitehouse & Dyer (Slack & Tight), Columbus, Tenn.
Whylie, J. T. & Co. (Slack), Saginaw. Mich.
Williams, H. D. Cooperage Co. (Slack & Tight), St. Louis, Mo.
Wilson, W. W. Stave Co. (Tight, Specialty Whiskey Staves), Little Rock, Ark.
Winant Cooperage Co. (Slack & Tight), 90 West, New York
Woodruff-Kroy Co. (Slack Staves), Davenport, Iowa
Worboys, Wm. A. & Co. ("Kuality," Staves, Heading & Hoops), Tower, Mich.
Sandusky Cooperage & Lumber Co. (Hoops. Staves & Heading), Galion, O.
Schinnerer, Geo. (Slack Staves & Hoops). Columbus, Ind.
Skuse's Cooperage (Slack). Rochester, N. Y.
Sommer, B. L. & Co. (Slack Barrel & Nail Keg Staves), Peoria, Ill.
Sutherland, Innes Co. (Ltd.) (Slack & Tight). 2 B'way, New York
Southern Cooperage Co. (Slack Barrel Heading Keg Staves, etc.). Claremont, Va.
Tennessee Hoop Co. (Coiled Elm Hoops), Memphis. Tenn.
Texler Cooperage Co. (Slack), Allentown, Pa.
Van Aken, C. M. Cooperage Co. (Slack & Tight), 141 B'way, New York

## Copper Angles, Channels, Etc.

(See Brass & Copper Angles, Channels, Etc.)

## 2354— Copper (Bolt & Bar)

**American Smelting & Refining Co., 165 B'way, New York**
**Ansonia Brass & Copper Co., Ansonia, Conn.**
**Balbach Smelting & Refining Co., Newark, N. J.**
**Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.**
**Benedict & Burnham Mfg. Co., Waterbury, Conn.**
**Bridgeport Brass Co., Bridgeport, Conn.**
**Coe Brass Mfg. Co., Torrington, Conn.**
Detroit Copper & Brass Rolling Mills, Detroit.
Hendricks Bros., 49 Cliff, New York Mich.
**HUNGERFORD, U. T. BRASS & COPper Co., 497 Pearl, New York**
Hussey, C. G. & Co., Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Oxford Copper Co., 43 Exchange pl, New York
Rome Brass & Copper Co. (Hard & Soft Drawn Copper Bar), Rome, N. Y.
Rome Tube Co. (Hard & Soft Drawn Copper Bar), Rome, N. Y.
Tacoma Smelting Co., Tacoma, Wash.
Taunton-New Bedford Copper Co., New Bedford, Mass.
United Metals Selling Co., 42 B'way, New York
United States Reduction & Refining Co., Colorado Springs, Colo.

## Copper Bolts

(See Bolts, Brass & Copper)

## 2355— Copper Bottoms

Ansonia Brass & Copper Co., Ansonia, Conn.
**Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.**
**Chicago Brass Co., Kenosha, Wis.**
**Coe Brass Mfg. Co., Torrington, Conn.**
Detroit Copper & Brass Rolling Mills, Detroit. Mich.
**HUNGERFORD, U. T. BRASS & COPper Co. (Pits & Flats), 497 Pearl, New York**
Hussey, C. G. & Co., Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.) (Pits & Flats), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)**
Michigan Copper & Brass Co., Detroit, Mich.
New Haven Copper Co., Seymour, Conn.
Taunton-New Bedford Copper Co., New Bedford, Mass.

## Copper (Braziers')

(See Copper Bottoms)

## Copper Coils

(See Pipe Bends & Coils)

## 2355a— Copper Dealers

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## Copper Dealers (Sheet)

(See Tin Plate, Metals, Etc.)

## 2356—Copper (Dynamo Brush)

Ansonia Brass & Copper Co., Ansonia, Conn.
**Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.**
**Benedict & Burnham Mfg. Co., Waterbury, Conn.**
**Coe Brass Mfg. Co., Torrington, Conn.**
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**Eureka Tempered Copper Wks., North East, Pa.**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)**
Michigan Copper & Brass Co., Detroit, Mich.
Taunton-New Bedford Copper Co., New Bedford, Mass.

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## 2357—Copper (Electric & Foil)

Benson, H. K. & F. S., Glen Ridge, N. J.

## 2358—Copper Fire Box Sheets

Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Detroit Copper & Brass Rolling Mills, Detroit.
Hendricks Bros., 49 Cliff, New York
Mich.
Hussey, C. G. & Co., Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices. end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Taunton-New Bedford Copper Co., New Bedford, Mass.

## 2359—Copper for Commutator Bars

Ansonia Brass & Copper Co., Ansonia, Conn.
Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Coe Brass Mfg. Co., Torrington. Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Eureka Tempered Copper Works, North East, Pa.
Hendricks Bros., 49 Cliff, New York
**HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York**
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices. end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Taunton-New Bedford Copper Co., New Bedford, Mass.

## 2360—Copper (Maganese)

Crescent Phosphorized Metal Co., 2314 Wood, Phila., Pa.
Electric Smelting & Aluminum Co., Lockport, N. Y.
Lang, R. F., 31 B'way, New York
Metal Mfg. Co., 25th & Dickinson, Phila., Pa.
Riverside Metal Co., Riverside, N. J.
Roessler & Hasslacher Chemical Co., 100 William, New York

## Copper Nails

(See Nails, Brass & Copper)

## Copper, Ores, Mattes & Bullion

(See Ores, Copper)

## 2361—Copper Plating of Iron

**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 2362—Copper (Polished)

Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Hussey, C. G. & Co., Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices. end of book)
Taunton-New Bedford Copper Co., New Bedford, Mass.

## 2363—Copper Refiners (Electrolytic)

American Metal Co., 52 B'way, New York
American Smelting & Refining Co., 165 B'way, New York; Works: Perth Amboy, N. J.
Balbach Smelting & Refining Co., Newark, N. J.
Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Boston & Montana Copper Co., Great Falls, Mont.
Chicago Copper Refining Co., 138 Jackson boul. Chicago, Ill.
Great Western Smelting & Refining Co., 31st & Wallace, Chicago, Ill.
Mountain Copper Co., San Francisco, Cal.
Nichols Copper Co., 25 Broad, New York
Raritan Copper Works, Perth Amboy, N. J.
Tacoma Smelting Co., Tacoma, Wash.
Tottenville Copper Co. (Pig, Ore, Mattes, Scrap, etc.), Tottenville, N. Y.
U. S. Metals Refining Co., 42 B'way, New York

## Copper Rivets

(See Rivets, Brass & Copper)

## Copper Rods

(See Rods, Brass & Copper)

## 2364—Copper (Roll)

Balbach Smelting & Refining Co., Newark, N. J.
Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Chicago Brass Co., Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York**
Hussey, C. G. & Co., Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices. end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Nichols Copper Co., 25 Broad, New York
Plume & Atwood Mfg. Co., Waterbury, Conn.
Waterbury Brass Co., Waterbury, Conn.

## 2364a—Copper (Scrap)

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## Copper Screws

(See Screws, Brass & Copper)

## Copper (Sheet)

(See Copper & Brass Sheet)

## 2365—Copper (Silicon)

Electric Smelting & Aluminum Co. ("Cowles") Lockport, N. Y.
Lang, R. F. ("Royal"), 31 B'way, New York
**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)
Roessler & Hasslacher Chemical Co., 100 William, New York

## 2366—Copper Smelting Equipments

Wellman-Seaver-Morgan Co., Cleveland, O.

## 2367—Copper Sulphate

(See also Chemicals, Battery)

American Smelting & Refining Co., 165 B'way, New York
Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Beer, Sondheimer & Co., 42 B'way, New York
Fergusson Bros., 109 Chestnut, Phila., Pa.
General Chemical Co. (Blue Stone), 25 Broad, New York
Irvington Smelting & Refining Co., Irvington, N. J.
Mallinckrodt Chemical Works, St. Louis, Mo.
Nichols Copper Co., 25 Broad, New York
Pennsylvania Salt Mfg. Co. (Blue Stone), 115 Chestnut, Phila., Pa.
Sholes, Chas. E. Co., 164 Front, New York

## 2368—Copper (Tinned)

Hussey, C. G. & Co., Pittsburg, Pa.

## Copper Tubes

(See Tubing, Brass & Copper)

## 2369—Copper Ware (Stamped, Plated, Etc.)

Atlantic Stamping Co., Rochester, N. Y.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk" Nickel Plated), Canandaigua, N. Y.
Manning, Bowman & Co., Meriden, Conn.
Rome Mfg. Co. (Tea Kettles, Coffee Pots, Boilers, etc.). Rome, N. Y.
Sweeney, W. H. Mfg. Co., 30 Main, Brooklyn, N. Y.

## Copper Wire

(See Wire, Brass & Copper)

## 2370—Copper & Brass (Sheet)

American Brass Co., Waterbury, Conn.
Ansonia Brass & Copper Co., Ansonia, Conn.
Baltimore Copper Smelting & Rolling Co. (Copper Only), Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Brass Co., Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Hendricks Bros. (Copper Only), 59 Cliff, New York
**HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York**
Hussey, C. G. & Co. (Copper Only), Pittsburg, Pa.
Manhattan Brass Co., 338 E 28th, New York
**MERCHANT & EVANS CO. (Inc.)** (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

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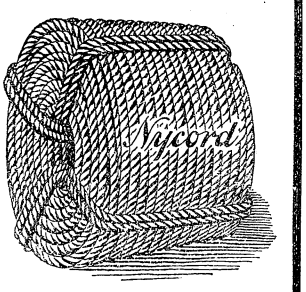
**ROPE**
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**WASTE**
**OAKUM**
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**LATH YARN**
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Michigan Copper & Brass Co., Detroit, Mich.
**New Haven Copper Co. (Copper Only), Seymour, Conn.**
Pilling Brass Co. (Thin Gauges for Platers, etc.), Waterbury, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
**Randolph-Clowes Co., Waterbury, Conn.**
**Rome Brass & Copper Co., Rome, N. Y.**
**Scovill Mfg. Co. (Brass Only), Waterbury. Seymour Mfg. Co., Seymour, Conn. Conn.**
Taunton-New Bedford Copper Co., New Bedford, Mass.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mills (Inc.) (Brass), Waterbury, Conn.

## 2371– Copperas

(See also Sulphate of Iron)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Butterworth-Judson Co., Newark, N. J.
Fergusson Bros., 109 Chestnut, Phila., Pa.
General Chemical Co., 25 Broad, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Jordan, W. H. & F. Jr., 151 N. Front, Phila., Pa.
New York Quinine & Chemical Works, 114 William, New York
Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.
Thomsen Chemical Co., Baltimore, Md.
United Zinc & Chemical Co., Kansas City, Mo.
Wetherill, S. P. Co., 925 Chestnut. Phila., Pa.
Williams, C. K. & Co., Easton, Pa.

## 2372– Coppers (Battery)

**Beattie Zinc Works Co., Reading, Mass.**
Bryant Mfg. Co., 456 W Ontario, Chicago, Ill.
Bryant Zinc Co., 737 W Van Buren, Chicago, Ill.
Edes Mfg. Co., Plymouth, Mass.
Fox, Jno. M. & Co., Portland, Me.
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
**MERCHANT & EVANS CO. (Inc.)** (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Pearce, Fred'k Co., 20 Rose, New York
Phoenix Specialty Mfg. Co., Centre & Duane, New York
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J.; Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)

## 2373–Coppers (Tillery Canning)

Hull, J. S. Mfg. Co. ("Hull"), Baltimore, Md
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 2374– Coppersmiths

(See also Boilers, Range, Copper)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)

## Copying Apparatus

(See Duplicators; also Presses, Copying)

## 2375–Copying Press Sheets (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goodyear India-Ruber Glove Mfg. Co., 503 B'way, New York

## 2376– Cord (Rubber)

**BOSTON BELTING CO., 256 Devon-**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**CONTINENTAL RUBBER WORKS,** Erie, Pa. (See adv. index & branch offices, end of book)

## 2377– Cord (Waterproof)

**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York. (See adv. index, end of book)

## 2378– Cordage (Braided)

(See also Sash Cords)

**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
**SAMSON CORDAGE WORKS (Sash,** Trolley, Arc Lamp, Bell Cord, Clothes Lines, Masons', Curtain Cords, Tiller Rope, etc.), 88 Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO., 78 Chauncy,** Boston, Mass. (See adv. index, end of book)

## Cordage (Hemp)

(See Twine, Hemp)

## 2379– Cordage (Tarred)

**COLUMBIAN ROPE CO., Auburn, N. Y.** & 62 South, New York. (See adv. index, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**NEW YORK CORDAGE CO. ("Ny-**cord"), 85 Wall, New York. (See adv. index, end of book)

## 2380–Cordage & Twine Mfrs.

(See also Twines, Binders; also Rope Manufacturers of Various Kinds)

American Mfg. Co., 63 Wall, New York
Anniston Cordage Co., Anniston, Ala.
Ashaway Line & Twine Mfg. Co. (Fish Lines & Cotton Seine Twines, etc.), Ashaway, R. I.
Beaumont Mfg. Co., Spartanburg, S. C.
Bibb Mfg. Co. (Cords, Twines & Lines), Macon, Ga.
Boehme & Rauch Co. (Rope, Twine & Cordage), Monroe, Mich.
Boscanan Mills (Inc.) (Cotton Cords & Twine), Penacook, N. H.
Boston Thread & Twine Co. (Twine), Boston, Mass.
**BRODERICK & BASCOM ROPE CO.** (Cordage Only), 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
Brownell & Co. (Cotton Seine Twine), Moodus, Conn.
California Cotton Mills Co. (Cotton Rope & Twine), Oakland, Cal.
Canonchet Line & Twine Co. (Twine), Canonchet, R. I.
**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
**Central Mills Co. (Cotton Twine), Southbridge,**
**Charlotte Cordage Co., Charlotte, N. C. Mass.**
Chelsea Fibre Mills (Flax, Jute, etc.), 33 Union sq, New York. Factory: Brooklyn, N. Y.
Cleveland Mill & Power Co. (Cotton Twine), Lawndale, N. C.
**COLUMBIAN ROPE CO. (Oil Well &** Tarred Cordage & Jute & American Hemp, Twine, etc.), Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
**Consolidated Cotton Duck Co. (Cotton Twine),** Baltimore, Md.
Continental Cordage Co., 97 Water, New York
Dolphin Jute Mills (Jute, etc.), Paterson, N. J.
Draper, W. H. & Son (Cotton Twine, etc.), Troy, N. Y.
Easton Cordage Co. (Cordage), Easton, Pa.
Elder, Jas. (Cotton Cordage), 230 W. Coulter, Philadelphia, Pa.
Empire State Bag Co. (Flax & Jute), 742 Wythe av, Brooklyn, N. Y.
Estes Mills (Inc.) (Twine), Fall River, Mass.
Fitler, Edwin H. Co., 22 N Delaware av, Philadelphia, Pa.
Flocker, Jno. & Co. (Ltd.), Pittsburg, Pa.
Fricke, J. E. Co., 253 Market, Phila., Pa.
Gloucester Net & Twine Co. (Cotton Twine), Gloucester, Mass.
Grimond, J. & A. D. (Ltd.) (H. N. Gildea, Agent), (Jute Rope, Cord & Twine), 309 B'way, New York
Groendyke, J. C. Co., 140 Dearborn, Chicago, Ill.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Hooper, Wm. E. & Sons Co. (Cotton, Twine, etc.), Baltimore, Md.
Hooven & Allison Co. (Manilla, Sisal, Hemp & Jute, Baling, Wrapping, Sail, Commercial, etc.), Xenia, O.
Hoover & Gamble Co., Miamisburg, O.
Jackson, Thos. & Son (Manilla, Sisal & Jute Rope, Cordage & Twine), Reading, Pa.
Jacobs Cordage Co., Cincinnati, O.
Johnson, R. Yarn & Cordage Mill, Madison, Ind.
Kelly, R. A. Co. (Sisal, Manila & New Zealand), Xenia, O.
Kentucky River Mills (Hemp Binder & Commercial Twines), Frankfort, Ky.
Knox, W. & J. Net & Twine Co. (Twine), Baltimore, Md.
Lamberth Rope Corporation (Cotton), New Bedford, Mass.
Lawrence Duck Co. (Cotton Twine), Lawrence, Mass.
Linen Thread Co. (Cotton, Flax, Hemp & Jute Twines), 96 Franklin, New York
Little River Mfg. Co. (Cotton Twine), Willardville, N. C.
Meagher's, Jas. Sons (Jute or Flax Cordage), San Francisco, Cal.
Montgomery Cordage Co., Montgomery, Ala.
Neptune Twine & Cord Mills, Moodus, Conn.
New Bedford Cordage Co., New Bedford, Mass.
**NEW YORK CORDAGE CO. ("Ny-**cord"), 85 Wall, New York. (See adv. index, end of book)

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New York Net & Twine Co., Moodus, Conn.
Overman & Schraeder Cordage Co. (Jute, Hemp, Flax, Manila & Sisal for All Purposes), Covington, Ky.
Planet Mills Mfg. Co. (Jute Twine, Rope, etc.), 335 Carroll, Brooklyn, N. Y.
Plymouth Cordage Co. (Cordage & Binder Twine), North Plymouth, Mass.
Portland Cordage Co. (Flax Cordage & Binder Twine), Portland, Oregon
Purple, A. E. (Cotton Seine Twine), Moodus, Conn.
Radcliffe & Shaw Co. (Jute Twine & Rope), Glen Rock, Pa.
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
Schlichter Jute Cordage Co. (Jute), 20 N Front, Phila., Pa.
**SILVER LAKE CO. (Braided, Cordage, etc.),** 78 Chauncy, Boston, Mass. (See adv. index, end of book)
Smith & Dove Mfg. Co. (Flax Twine), Andover, Mass.
Standard Cordage Co. (Binder, Twine, etc.), 45 South, New York
Tennessee Line & Twine Co. (Fish Lines & Cotton Seine Twines, etc.), Elizabethston, Tenn.
Tucker & Carter Rope Co. (Manila, Sisal, Flex, Jute, Hemp & Cotton Ropes, Twines & Cordage), 76 South, New York
Uhler & English, 106 N Delaware, Phila., Pa.
Wall Rope Works, 56 South, New York
Westport Mfg. Co. (Cotton Twine), Westport, Mass.
Whitlock Cordage Co., 46 South, New York
Winne, F. W. & Son, 237 Market, Phila., Pa.
Yocona Cotton Mills (Inc.), Water Valley, Miss.

## Cords (Arc Lamp)

(See Cords, Trolley, Arc Lamp & Bell)

## 2381— Cords (Flexible)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** (Steel Wire), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Belden Mfg. Co. ("Belden"), 2316 Western av, Chicago, Ill.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bishop Gutta Percha Co., 422 E 25th, New York
Boston Insulated Wire & Cable Co., Boston, Mass.
Chicago Insulated Wire & Mfg. Co., 152 Lake Chicago, Ill.
Ferrin, F. M. (Woven Covered), Boston, Mass.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Goodyear Rubber Insulating Co., 1955 Park av, New York
Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
**KERITE INSULATED WIRE & CA-**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Lowell Insulated Wire Co., Lowell, Mass.
McEvoy, Chas. H. ("Duro"), Lowell, Mass.
Marion Insulated Wire & Rubber Co., Marion, Ind.
Moore, Alfred F., 202 N 3d, Phila., Pa.
National India Rubber Co., Bristol, R. I.
**OKONITE CO. (Ltd.), 253 B'way, New** York. (See adv. index, end of book)
Premier Electric Co., 519 W Van Buren, Chicago, Ill.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton, & Roebling, N. J. (See adv. index & branch offices, end of book)
Runzel-Lenz Electric Mfg. Co., 1751 W. Western av, Chicago, Ill
Safety Insulated Wire & Cable Co., Bayonne, N. J., & 114 Liberty, New York
Simplex Electrical Co., Boston, Mass.
Standard Underground Cable Co., Pittsburg, Waterbury Co., 60 South New York Pa.
Western Electric Co. ("Victor"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## Cords (Incandescent Lamp)

(See Cords, Flexible)

## 2382—Cords (Leather, Bell or Register)

Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.
Jewell Belting Co., Hartford, Conn.
Ladew, Edw. R. (Est.), 82 Fulton, New York
National Leather Mfg. Co. (Surface & Oak, Tan, Flat & Round), Niles, Mich.
New York Leather Belting Co., 51 Beekman, Page Belting Co., Concord, N. H. New York
Raniville, F. Co., Grand Rapids, Mich.
Rhoads, J. E. & Sons, 12 N 3d, Phila., Pa.
Wallace Supply Co., 120 S Jefferson, Chicago, Ill.
Western Rawhide & Belting Co., Milwaukee, Williams, I. B. & Sons, Dover, N. H. Wis.

## 2383— Cords (Picture)

Draper, W. H. & Son, Troy, N. Y.
Hendryx, Andrew B. Co., New Haven, Conn.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton, & Roebling, N. J. (See adv. index & branch offices, end of book)
Wire Goods Co. (Braided Wire), Worcester, Mass.
**WRIGHT WIRE CO. (Braided Wire),** Worcester, Mass. (See adv. index & branch offices end of book)

## 2384— Cords (Telephone & Switchboard)

American Electrical Works, Phillipsdale, R. I.
Belden Mfg. Co., 2316 Western av, Chicago, Ill.
**DRIVER-HARRIS WIRE CO., Har-**rison, N. J.
Kellogg Switchboard & Supply Co., W Congress & Greene, Chicago, Ill.
McEvoy, Chas. H. ("Duro"), Lowell, Mass.
Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
Premier Electric Co., 519 W Van Buren, Chicago, Ill.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton, & Roebling, N. J. (See adv. index & branch offices, end of book)
Runzel-Lenz Electric Mfg. Co., 1751 N Western av, Chicago, Ill.
Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.
Western Electric Co. ("Victor"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 2385—Cords (Tinsel & Copper)

Belden Mfg. Co., 2316 Western av, Chicago, Ill.
Bishop Gutta Percha Co., 422 E 25th, New York
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Moore, Alfred F., 202 N 3d, Phila., Pa.
Premier Electric Co., 519 W Van Buren, Chicago, Ill.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 2386—Cords (Trolley, Arc Lamp & Bell)

**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
Fricke, J. E. Co. ("Jefferson," Solid Braided), 253 Market, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hoffman-Corr Mfg. Co., 413 Market, Phila, Pa.
Jacobs Cordage Co., Cincinnati, O.
South, New York
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Mallison Braided Cord Co., Athens, Ga.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton, & Roebling, N. J. (See adv. index & branch offices, end of book)
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO. (Braided), 78** Chauncy, Boston, Mass. (See adv. index, end of book)
Tucker & Carter Rope Co. (Also Colored), 76 South, New York
Whittier Mills Co., Chattahoochee, Ga.

## 2386a—Core Carrying Systems

**ROCKWELL FURNACE CO., 26 Cort-**landt, New York. (See adv. index, end of book)

## 2387—Core Room Equipment

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index, end of book)
**NEW BRITAIN MACHINE CO. (Steel),** New Britain, Conn. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cort-**landt, New York. (See adv. index, end of book)

## 2388— Corers (Cabbage)

Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.
Sayre, L. A. & Co., Newark, N. J.
Spengler Specialties Co., 37 E. 28th, New York
Stortz, John & Son, 210 Vine, Phila, Pa.

## 2389—Corers (Fruit & Vegetable)

Cronk & Carrier Mfg. Co. (Apple), Elmira, N. Y.
Cross, F. E. ("Little Gem" Apple Corer), Skowhegan, Me.
Geuder, Paeschke & Frey Co. (Apple), Milwaukee, Wis.
Goodell Co. (Fruit Parers, Slicers, etc.), Antrim, N. H.
Hamblin & Russell Mfg. Co. (Fruit), Worcester, Mass.
Hudson Parer Co. (Fruit), Leominster, Mass.
Hunt Mfg. Co. (Apple), Greenfield, Mass.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kilbourne Mfg. Co. (Apple), Troy, N. Y.
Landers, Frary & Clark ("Rapid"), New Britain, Conn.
Lewis, E. J. (Pineapple), Middleport, N. Y.
Parker Wire Goods Co. (Apple), Worcester, Mass.
Reid & Sons Mfg. Co. (Apple), 527 Smith, Brooklyn, N. Y.
Rollman Mfg. Co. (Appel), Mount Joy, Pa.
Sinclair-Scott Co. (Fruit Parers, Slicers, etc.), Baltimore, Md.
Spengler Specialties Co. ("Ideal"), 37 E 28th, New York
Sterling Hardware Co. (Apple), 10 Warren, New York
Stortz, John & Son (Cabbage), 210 Vine, Phila., Pa.
Stoutenborough, X. (Apple), 277 Pearl, New York
White, Ira F. & Son Co. (Apple Corer & Parer), Bloomfield, N. J.

## 2390—Cores (Armature & Magnet)

Bunnell, J. H. & Co., Park pl & Church, New York
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cleveland Armature Works, Cleveland, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Western Electric Co., 500 S. Clinton, Chicago, Ill., & 57 Bethune, New York

## 2391— Cork Carpets

American Linoleum Mfg. Co. (In Five Colors), 366 5th av, New York
Farr & Bailey Mfg. Co., Camden, N. J.
Nairn Linoleum Co., Kearny, N. J.
Potter, Thos. Sons & Co., 522 Arch, Phila., Pa.
Trenton Oil Cloth & Linoleum Co. ("Cook's"), Trenton, N. J.

## Cork (Granulated, for Insulation)

(See Insulation, Cork)

## 2392— Cork Mfrs.

Armstrong Cork Co., Pittsburg, Pa.
Biertuempfel Bros. Cork Co., Newark, N. J.
Butz, A. L. Cork Co., 837 Race, Phila., Pa.
Cahn, Hugo & Co., 67 Murray, New York
Campbell, John H., Rochester, N. Y.
Chicago Cork Works Co., Chicago, Ill.
Crown Cork & Seal Co., Baltimore, Md.
Farrell, Wm. J., 115 Maiden la, New York
International Cork Co., 99 Sutton, Brooklyn,
McCready, R. W. Cork Co., Chicago, Ill. N. Y.
Milton Cork Co., 42 Wilson, Brooklyn, N. Y.
Mundet, L. & Sons, 186 Van Brunt, Brooklyn,

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Newark Cork Works, Newark, N. J. N. Y.
Paddock Cork Co., 1209 DeKalb av, Brooklyn, N. Y.
Paddock, J. H. Co., 82 3rd, Brooklyn, N. Y.
Redlich Mfg. Co., 637 W Oak, Chicago, Ill.
Truslow & Fulle (Inc.), Jersey City, N. J.
Williamsburg Cork Works, 57 Murray, New York

## 2393— Cork Screws

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Browne, W. G. Mfg. Co., Kingston, N. Y.
Browne & Dodd Mfg. Co., Meriden, Conn.
Clough Corkscrew Co., Alton, N. H.
Deuse, J. S., Chester, Conn.
Erie Specialty Co. ("Walkers" Self-Pulling), Erie, Pa.
Havell Mfg. Co., Newark, N. J.
Humason & Beckley Mfg. Co., New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
Murphy, R. & Sons ("R. Murphy's"), Ayer, Mass.
New Era Cork Extractor Co. ("New Era" Cork Extractor), Jacksonville, Fla.
Parker, Chas. Co., Meriden, Conn.
Parks & Parks, Troy, N. Y.
Rockwell-Clough Co. (Wire), Alton, N. H.
Ross, Jos., Jr., & Co., Irvington, N. J.
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, end of book)
Taylor Mfg. Co., Hartford, Conn.
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.
Williamson, C. T. Wire Novelty Co. (Self-Acting Combination, also Small Wire Cork-Screws), Newark, N. J.

## 2394— Corks (Crown)

Mundet, L. & Sons, 186 Van Brunt, Brooklyn, N. Y.

## Corks (Rubber)

(See Stopples, Rubber)

## 2395—Corn Binders & Harvesters

Adriance, Platt & Co. ("Adriance"), Poughkeepsie, N. Y.
International Harvester Co. of America ("Deering", "McCormack", "Milwaukee", "Osborne"), 7 Monroe, Chicago, Ill.
Johnston Harvester Co. ("Johnston"), Batavia, N. Y.

## 2396— Corn (Broom)

American Broom & Brush Co., Amsterdam, N. Y.
Boggs Broom Corn Co., St. Louis, Mo.
Chambers, M. W., Dayton, O.
Danner, J., Humbolt, Ill.
Duncan, W. A., Sullivan, Ill.
Griffin, Geo. B. & C. M., Charleston, Ill.
Gross, J. P. & Co., 12 E. Kinzie, Chicago, Ill.
Kavanagh Bros., 1234 W. Kinzie, Chicago, Ill.
Lyons, Thos. & Co., Arcola, Ill.
Phillips Broom Corn Co., Mattoon, Ill.
Roseboom, J. A. & Co., Mattoon, Ill.
Roseboom, W. L. & Co., 3544 S. Morgan, Chicago, Ill.
Tarbox Broom Corn Co., Arcola, Ill.

## 2397—Corn Cookers & Fillers

Ams, Max, Machine Co., Mount Vernon, N. Y.
Cottingham, Harrison, Baltimore, Md.
Morral Bros., Morral, O.
**SPRAGUE CANNING MACHINERY CO., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)**

## 2398— Corn Cribs (Steel)

**AMERICAN STEEL & WIRE CO.** ("American," Galvanized Woven Wire), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## Corn Husking Goods

(See Husking Pins & Gloves)

## 2399—Corner, Base & Head Block Mfrs.

American Carving & Mfg. Co., Grand Rapids, Mich.
Crampton & Belden Mfg. Co. (Wholesale Mfrs.), Green Island, N. Y.
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Iowa
Curtis, Towle & Paine Co. (Wholesale Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Iowa
Foster-Munger Co. (For the Trade Only), W 20th & Sangamon, Chicago, Ill.
Fuller & Rice Lumber & Mfg. Co. (For the Trade Only), Grand Rapids, Mich.
Gauger, Jno. A. & Co. (For the Trade Only), W 22d & Laflin, Chicago, Ill.
Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.
Harris & Cole Bros. (For the Trade Only), Cedar Falls, Iowa
Lawrence, Newhall & Page Co., Augusta, Me.
McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.
Morgan Co. (For the Trade Only), Oshkosh, Wis.
New York Carved Moulding Co., Third av & 139th, New York
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
Pierce, W. E. & Co., Milford, N. H.
Radford Sash & Door Co. (For the Trade Only), 845 W. 22d, Chicago, Ill.
Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.
Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
**STEARNS, A. T. LUMBER CO., Nepouset, Boston, Mass.** (See adv. index, end of book)
Waddell Mfg. Co., Grand Rapids, Mich.
Zimmerman, Chas. E., Syracuse, N. Y.

## Corner Beads (Plastering)

(See Plasterers' Steel Corner Beads)

## 2400— Corners (Box)

(See also Box Straps)
Brainerd Mfg. Co. (Also Chest), East Rochester, N. Y.
Brass Goods Mfg. Co. (Also Chest), Nevin cor Union, Brooklyn, N. Y.
**CARY MFG. CO., 29 Roosevelt, New York.** (See adv. index, end of book)
De Haven Mfg. Co., 50 Columbia Hgts, Brooklyn, N. Y.
Jenkinson, R. C. & Co., Newark, N. J.

## 2401— Corners (Casket)

Waddell Mfg. Co., Grand Rapids, Mich.

## 2402— Corners (Partition)

Western Brass Mfg. Works (Iron or Brass), 21st & Rockwell, Chicago, Ill.

## 2403—Corners (Screen Frame)

Stearns, E. C. & Co., Syracuse, N. Y.

## 2404— Cornice Brakes

Double Truss Cornice Brake Co., Buffalo, N. Y.
Dreis & Krump Mfg. Co. ("Chicago"), 2911 S Halstead, Chicago, Ill.
Excelsior Tool & Machine Co., E St. Louis, Mo.
Falstrom & Tornquist Co., Passaic, N. J.
Loy & Nawroth Co., Newark, N. J.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (Automatic Power, etc.), 157 Oraton, Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. Mfg. Co. (Improved Double Eccentric), Cincinnati, O.

## Cornice Copper Mfrs.

(See Copper & Brass Sheet)

## 2405—Cornices (Galvanized Iron, Etc.)

### ALABAMA.

ANNISTON—Interstate Roofing & Foundry Co.
BIRMINGHAM—East Birmingham Iron Roofing & Corrugating Co.
Wheelock, George F. Co.
DECATUR—Brown, W. A. & Co.
MOBILE—Partridge, C. S. Hardware Co.
NEW DECATUR—Decatur Cornice & Roofing Co.
OPELIKA—Galbraith, W. A.
TALLADEGA—Michael Supply Co.

### ARIZONA TERRITORY.

PHOENIX—Burtis, D. H.
TUCSON—Julian, W. A. Co.

### ARKANSAS.

FORT SMITH—Bruce Bros.
HELENA—Helena Job Works
Helena Tin & Plumbing Co.
HOT SPRINGS—Hot Springs Plumbing & Machine Co.
William Schweder Co.
LITTLE ROCK—Fones Bros. Hardware Co.
Foster Hardware Co.
McCardell Bros.
Robinson, J. K. & Co.
MARIANNA—Plummer & Davis
PINE BLUFF—Dellmon, Jno. H., Jr.
Fox Bros. Hardware Co.

### CALIFORNIA.

FRESNO—Barrett-Hicks Co.
Kutner-Goldstein Co.
LOS ANGELES—American Cornice Works.
California Cornice Works.
Collins & Dee.
Erhardt, C. A., 230 E 4th
Gibbs, Wm. H., 2948 W Pico
Keays, A. A., 237 E 4th
Lederle, E. E., 1835 S Main
Metzger, T. M., 1044 Byram
Panzer-Hamilton Co.
Schaefer, Wm., 716 San Pedro
PASADENA—Dunn, W. H.
POMONA—Caldwell, B. F.
POPLAR—Howell, J. L.
RIVERSIDE—Copley Bros.
Shiels, John, & Sons
SACRAMENTO—Earle, Edw. E.
Scott, Lyman & Stack Co. (Inc.)
Sinclair & Bessey
SALINAS—Anderson & Dougherty
SAN DIEGO—Johnstone, J. S., & Son
Heilbron, Fred A.
San Diego Sheet Metal Works
Toms & Blair Sheet Metal Co.
SAN FRANCISCO—Comyns & Nygren
Conlin & Roberts, 414 Natoma
Cronan's Cornice Works, 30 8th
Forderer Cornice Works, 269 Potrero av
Guilfoy Cornice Works, 209 8th
Olmo, Frank, 3464 Mission
San Francisco Cornice Co., Bryant & Dore
SAN JOSE—Mangrum & Otter Co.
SANTA ANA—Hills, S. & Son
McFadden, John E.
Nickey, F. P. Hardware Co.
SANTA BARBARA—Boeseke-Dawe Co.
Ott Hardware Co.
SANTA CRUZ—Byrne Bros.
SANTA MARIA—Bryant & Trott Co.
SANTA ROSA—Demmer Chas.
Potter Hardware Co.
STOCKTON—Jackson & Earle

### COLORADO.

ALAMOSA—Spriesterbach Hardware Co.
COLORADO SPRINGS—Bumstead, F. E.
Lowell-Meservey Hardware Co.
DENVER—Crosta, C. A. Bros.
Denver Cornice Co.
Denver Sheet Metal Works
Fair, Chas. W. Cornice Works Co.
Globe Cornice Works
Kessler, Fred, 2708 Larimer
O'Brien, D. L., 3827 Downing av
Wahlgren Sheet Metal & Heating Co.
Walter, Louis H., 1426 Blake
DURANGO—Chapman Hardware
Nalgelin, Charles
FLORENCE—Spencer, T. E.
Wilson, George Hardware & Supply Co.
OURAY—Arps Bros. Hardware Co.
PUEBLO—Klein, Bella
TRINIDAD—Branson & Griswold Hardware Co.
Brown, H. B. Hardware Co.

### CONNECTICUT.

BRIDGEPORT—Bridgeport Cornice Works
DROUVE, G., CO. (Sheet Metal, Copper, Galv. Iron, etc.). 40 Tulip. (See adv. index, end of book)
Hurley, Jas. J.
Kirk, W. P. Co.
Mills, L. H.
Reilly, J., Jr.
Schwing, Jno. Corporation
HARTFORD—Bostwick, C. G.
Cullen & Atkinson Co.
Lurie, Aaron
Stelling, Fred.
MERIDEN—Griswold, Richmond & Glock Co.
MIDDLETOWN—Bacon Bros.
Flynn, J. Taylor
NEW HAVEN—Bradley Co.
Buckingham, Routh Co.
Clerkin & Co.

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Corbett, T. W., 29 B'way
Curtiss & Pierpont Co.
Day Co., 210 Park
Dorman & Cugell, 243 Congress av
**Perry, Harry M., 218 George**
**Rourke Bros. Co., 834 Grand av**
**Sheahan & Groark, 285 State**
NORWICH—Gibson, S. F.
**PUTNAM—Chandler & Morse**
Field, S. A.
Kenyon, R. L.
**Perry & Brown**
**SOUTH MANCHESTER—Carrier, E. T.**
**Ferris Bros.**
**STAMFORD—Dyer, John J.**
WATERBURY—Barlow Bros. Co.
Gill, John M.
Weyand, Henry Co. (Inc.)
**WATERTOWN—Suffa, Jos.**
**WOODBURY—Hitchcock, F. F.**

## DELAWARE.

NEW CASTLE—Kegan & Hufnal
WILMINGTON—Biddle, Sam
Cooke, H. R., 715 Shipley
Johnson, W. J.
Wilmington Cornice Works

## DISTRICT OF COLUMBIA.

**WASHINGTON—Beck, J. F., 425 K, N W**
**Branzell, Wm. H., 1905 14th, N W**
**Daly & Hopper, 916 27th, N W**
Giclas, H. J., 113 4½, S W
Giclas, Louis, 1026 6th, N W
**Hulse, Edgar J., 321 13th, N W**
Mathy Co., 1918 Pa. av, N W
Reavis, Albert S. Sheet Metal Cornice Co. (Inc.), 719 2d, N. E.
Whyte, W. M., 304 13th, N W
**Wolfsteiner, O. L. Co., 1315 W, N W**

## FLORIDA.

JACKSONVILLE—Macy & Johnson
KEY WEST—Johnson, W. A. & Bros.
Page, A. J.
**PENSACOLA—Avery Hardware & Supply Co.**
**Vetter, C. B.**
**SANFORD—Fernald, Geo. H. Hardware Co.**
**Hill, A. E.**
**TAMPA—Berry, W. J. & Co.**

## GEORGIA.

ABBEVILLE—Moody, E. A.
**AMERICUS—Schroeder, W. H. R.**
ATLANTA—Dowman-Dozier Mfg. Co.
Franklin Plbg & Tinning Co.
Hunnicutt, J. E. & Co.
AUGUSTA—Slusky, David
**BRUNSWICK—Baker, M. A.**
**Daniels, Moses**
**CARTERSVILLE—Lumpkin Hardware Co.**
**COLUMBUS—Gartman, W. D.**
**Russell, J. C. & Co.**
**Sheridan, Geo. W.**
**MACON—Ricks, L. C.**
**Suber Co.**
ROME—Neal, James
SAVANNAH—Cox, C. A.
Hahne, Frank
Pacetti's, E. C. Sons
Savannah Blow Pipe & Exhaust Co.

## IDAHO.

BLACKFOOT—Curtis, H. W.
**BOISE—Idaho Hardware & Plumbing Co. (Ltd.)**

## ILLINOIS.

**ALTON—Degenhardt, A. J.**
AURORA—Crampton, J. T.
Hart, Charles
**Kendall, Jno. W. & Son**
Messenger & Parks Co.
**BATAVIA—Barckley, John & Son**
U. S. Wind Eng. & Pump Co.
BELLEVILLE—Lebkencher, L.
BERWYN—Recker, Frank
BLOOMINGTON—Butler, Harry
Muhl, F. C.
Read, G. . & Bro.
BLUE ISLAND—Schreiber Bros.
BOWEN—Walty, Albert
**BRADLEY—Watson, Jas. H. Co. (Inc.)**
CHAMPAIGN—Mollett, Chas.
CHICAGO—Abt, L., 1418 W Harrison
Andersen, L. A., 3544 Lyndale av
Bloomer Co., 3715 Wentworth av
Bremer, Henry F., 2227 Ogden av
Burkhardt, G. Mfg. Co., 2123 N Clark
Conen, Stephen, 4305 Lincoln av
Erickson, Gus A., 2433 N Western av
**Erickson, John T., 4430 La Salle**
Farwell Cornice Co., 3935 Southport av
Forsman, John A., 341 W 58th
Gelchsheimer, Fred, 3045 N Central Park av
Glatt, Jacob, 3640 Dickens av
Griffith Cornice Works, 2441 Indiana av
Guenther, Richard, 3154 Avondale av
Hamer, Fred, 933 W North av
Heckler, Herman, 1362 E. 63d
Hempel, Max, 3016 E 91st
Hendle, Nicholas, 1910 Roscoe
Herr, Wm., 1625 W 15th
Hirsch, K., 2016 W Division
Holzwarth, A., 1021 Wilmington
Illinois Roofing & Cornice Co., 1144 W Kinzie
Jaeger, Fred'k J. C., 1419 W. 18th
Jennings, M. L. Co., 524 W Jackson boul
Jensen C. E., 3331 W North av
Knisley Bros., 2799 5th av
**KNISELY, H. C. CO., 506 S Canal,**
(See adv. index, end of book)
Krautwurm, Wm., 2090 Canalport av
Krefting, Edw., 622 W Van Buren
Kuder, Chas. V., 5315 Wentworth av
Lavery, Jno. V., 4310 S State
Lengacher, Wm., 2046 Larrabee
**McFARLAND, J. C. & CO., 5th av,**
& 27th. (See adv. index, end of book)
Maehler, Paul Co., 807 W Lake
Masterton, Albert E., 9148 Houston av
Meisel, Ferdinand, 1439 N Halsted
Miller, Jas. A. & Bro., 114 S Clinton
Monroe, Wm. E., 3933 Eberly av
Moorhead, M., 6640 Vernon av
Noyes, E. A., 1606 W Lake
Perkinson & Brown (Skylight), 412 N Lincoln
Peter, John, 1313 N Wood
Purdy & Cauble, 666 W 63d
Rehling, K. J. Cornice Works, 4527 State
Reuter, Edw., 1842 W 13th
Rychtik, Frank, 1722 W 21st
Rysdon, E. A. & Co., 527 W 41st
Schaeffer Co., 2213 S Central Park av
Schneider & Meng, 1615 Clybourn av
Schwedland, R., 812 W. 27th
Slavik, Frank, 3025 W. Van Boren
Slavik & Co., 1500 Blue Island av
Spaltenstein Bros., 1309 Newberry av
Staar, Frank, 1473 N Halsted
Trede, Edw. J., 3709 W Division
Universal Cornice & Roofing Co., 2239 S
Vallas, Wm. H., 2855 W Lake Troy
Voigtmann, Frank Cornice Co. (Skylights). 324 W Indiana
Wagner Bros., 1010 Diversey boul
Warner, Chas. W., 522 W Harrison
Watson, W. D. Co., 1035 W Van Buren
Williams, Owen R., 2441 Indiana av
Yeldham, Harmon J., 950 W Van Buren
Zakrewsky, Herman, 7025 N Clark
DANVILLE—Dettman, Wm. C.
King Bros.
DAVIS—Caldwell, J. M.
DECATUR—Barringer, Wm. C.
DE KALB—Sheets & Knodle Co.
Smith, C. F.
DIXON—Hoffman, John
EAST ST. LOUIS—East St. Louis Cornice Works
Haines, O. J. & Son
Hogan, Frank W.
EDINBURG—Ballet, Jacob
EDWARDSVILLE—Bernreuther, Fred
EFFINGHAM—Feldhake, J. J.
ELGIN—Hawkins Bros.
GALESBURG—Galesburg Cornice Works
Willis Mfg. Co.
HIGHLAND PARK—Purdy, D. C. & Sons
HOOPESTON—Werner, E. B.
JACKSONVILLE—Brennan, J. F.
JOLIET—Bush & Handwerk
Meers, Robert
KANKAKEE—Reuter, Henry
LA GRANGE—Mattingly, J. G.
LA SALLE—Boyle, T. & Bro.
Camenisch, John
LEBANON—Sager, C. H. Hardware Co.
LINCOLN—Bouillon, W. E.
Dehner, J. P.
MATTOON—Berthold, Hanson
Weber, O. B.
MENDOTA—Edwards Hdw. Co.
MOLINE—Reid Co.
Samuel, Wm. B.
Willis & Sons Co.
**MONTICELLO—Harris, H. P.**
MORRIS—Cronin, D. G.
MURPHYSBORO—Stoelzle, John & Bro.
OLNEY—Jolly, Wieland & Richardson Co.
ONARGA—Amerman, M. T.
OTTAWA—Paisley, Wm. C. Roofing Co.
Pearson's, Sam'l & Sons
Walter, Jno. (Slate & Metal)
PANA—Paul, G. A.
PEORIA—Aylward, R. C.
Bushell, A. A. & Son
Hierspiel Bros.
Hunter & Strehlow
Johnson, Chas. Hdw. Co.
Kavanaugh, Pt'k H.
Kellersstrass, Robt.
Meyer, F. & Bro. Co.
Peoria Roofing Co.
Tammen, Jno. S.
Wilson, R. L. & Co.
PLANO—Sears, A. H. & Co.
Stahlle, Henry
**QUINCY—Berghofer-Mitchell Co.**
Comstock-Castle Stove Co.
Scheipering, Gustav
Schell & Kroner
**Winking, Geo.**
Wurst, C. H. Co.
**ROCKFORD—Drake-Tucker Hdw. Co.**
Harder, A. P.
**McGuire Bros.**
**Martin, A. & Co.**
Whitacre, J. E. Mfg. Co.
ROCK ISLAND—Allen, Meyers & Co.
Bertelson, John
Siemon, H. T.
**SPRINGFIELD—Armstrong Bros.**
Atkinson, E.
Foster, Wm. & Sons Co.
Henson, Robinson Co.
Lauterbach, Peter
Neuman, J. C.
STERLING—Taylor, F. R. & Co.
Trager, F. A.
STREATOR—Alband, John
Howe, L. D.
McCoy & Davenport
Powers & Williams
**SYCAMORE—Ohlmacher, C. J.**
URBANA—Green, Jesse D.
WAUKEGAN—Melody, W. A.
Watrous, G. B. & Son

## INDIANA.

COLUMBUS—Brooks Bros.
CONNERSVILLE—Cain, Hy.
ELKHART—Borneman & Sons
Garvin & Co.
ELWOOD—Elwood Iron Works
EVANSVILLE—Groeninger, J. J. & Co.
International Steel & Iron Construction Co.
Lohse, H. Co.
Mesker, Geo. L. & Co.
Schminke, H. & Co.
Wiechel, Louis & Co.
FORT WAYNE—Gerding & Aumann
Gunkel, Otto F.
Miller, U. U.
GREENFIELD—Banks, A. J. & Son
HUNTINGTON—Bridge, Lewis & Sons
INDIANAPOLIS—Abel & Doyle
Ensey, Orvis B.
Gardner, Joseph
Hornbrook-Price Co.
Humphreys & Sargent
Indianapolis Corrugating Co.
Off, Christian & Co.
LAFAYETTE—Co-Operative Tin Shop
Howe & Shipley
Schimelpfenig, C.
LAPORTE—Decker, Lowis
LAWRENCEBURG—Stuber, F. & Son
LOGANSPORT—Eberlein, C. Augustus
Flanegin Hardware Co.
MADISON—Eckert, John & Sons
Hoffman, Peter
Quinn, Patrick J.
MARION—Beshore, Chas.
Hollinger, M. G. & Co.
Swanger & McClain
MICHIGAN CITY—Bartholomew & Co.
Staiger Hdw. Co.
MISHAWAKA—Distler, John C.
Lang, O. E. & Co.
Swanger, John, Jr.
MONROEVILLE—Nill & Jerome
MONTEZUMA—Sharp, I. A.
MOUNT VERNON—Schenck, E. B. Hdw. Co.
MUNCIE—Ballard, W. H.
Cook & Miller
Doyle, Thos. F.
Wells, A. T.
NEW CASTLE—Shriner, James C.
NORTH MANCHESTER—Lockwood, J. B.
PERU—Brennan, J. W.
RICHMOND—Johaning, C. H.
Ruch, John
Schultz & Laning
RUSHVILLE—Beale, John S.

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SHELBYVILLE—Brown, Walter E.
Howard, Alonzo
Pearson, J. C. & S.
SOUTH BEND—Duncker, Henry
Lauber, J. C. & Co.
Meyer, G. E. & Son
TERRE HAUTE—Freitag, Weinhardt & Co.
Moore, J. T.
Smith, C. C. Sons Co.
Terre Haute Furnace & Sheet Metal Co.
VALPARAISO—Findling, H. M.
Patrick, J. H. & Son
VINCENNES—Dubois, F. W.
Lauby, C. W.
Vincennes Galvanized Iron Works
WARSAW—Herrin, Jerry
WASHINGTON—Carnahan, M. J. Co.
Gross, Ferd H.

## IOWA.

ALBIA—Barger, Seaman
AUDUBON—Hoover, G. W.
Reinemund, Jno., Jr.
BOONE—Noland, L. C.
BURLINGTON—Forney, J. H.
Haffner, Chas.
Hillen, Frank
CEDAR RAPIDS—Cedar Rapids Cornice Works
Grissel, J. P. Cornice Co.
Wagner, C. De Witt
CHARITON—Ensley, G. W.
CLINTON—Armstrong, C. E. & Co.
COUNCIL BLUFFS—Amy, W. S.
Spencer, F. A.
CRESTON—Creston Cornice Works
DAVENPORT—Reimers, Peter A.
DES MOINES—Backman, J. A.
Steel Roofing & Stamping Works
DUBUQUE—Geisler, Joseph
Klauer Mfg. Co.
Klauer & Kress
Lally, Jas.
ELDORA—Stauffer, Chas. F.
GRINNELL—Miles, G. L.
HARTLEY—Messer, E. B. & Son
HUMBOLDT—Ward, C. E.
INDEPENDENCE—Plane, I. C.
IOWA CITY—Maresh Bros.
KEOKUK—Geiger, Aug.
Seither & Cherry Co.
LYONS—Parker Bros.
MUSCATINE—McQuesten & Sawyer Co.
Thompson Bros. Co.
NEW HAMPTON—Garmen & Forkenbock
OSKALOOSA—Hamilton & Hamilton
Wells, Porter & Stump
OTTUMWA—Harper & McIntire Co.
Haw & Simmons Co.
McCarroll Bros.
McCarroll, Charles T.
SIOUX CITY—Eidt, Julius
Hamlett, D. F.
Larson, C. A.
STATE CENTER—Schilling Bros.
McMahon, J. L.
STORM LAKE—Peterson, N. H. & Son
WOODBINE—Western Steel & Iron Co.
Young & Kibler

## KANSAS.

ATCHISON—Klostermeir Bros.
Walcott, H. C.
Weinmann, C. F.
CONCORDIA—Blair & Everly
EMPORIA—Knapp, O. H.
INDEPENDENCE—Union Sheet Metal Works
IOLA—Root, W. H.
JUNCTION CITY—Barker, E. E.
Muenzenmayer, J. J. & W. F.
LEAVENWORTH—Endres, J. A. & Son
Hoffman, S. C.
Zeits, G. F.
NEWTON—Bachman, C. A.
Bergh, Wm.
OTTAWA—Elder Mercantile Co.
PARSONS—Steel Hardware Co.
PITTSBURG—Axton, W. L.
Baglay, J. P.
Beasley & Miller
SALINA—Kastner, Geo.
TOPEKA—Baird, John M.
Forbes, D. H.
Nussbeck, John G.
Van Dorp, L.
Wolf Bros.

## KENTUCKY.

ASHLAND—Coburn, S.
Phelps, Frank K.
CARROLLTON—Salyers, C. D. & Son
CATLETTSBURG—Ely, Chas. W.
COVINGTON—Glaser, Wm. A.
Gottschalk, F. S. Sons
Hesselman, Herman C.
Moeschl-Edwards Corrugating Co.
Rasch, C. F. Sons
DAYTON—Poos, John
FRANKFORT—Miller, Geo. W.
LEXINGTON—Bitterman, E. & Son
LOUISVILLE—Belknap Hardware & Mfg. Co.
Fink, Philip & Sons, 213 S. 1st
Imperial Wire, Iron & Roofing Co.
Kentucky Sash & Door Co.
Louisville Cornice & Roofing Co.
Schreick, J. & Co., 906 S. Preston
Shaber, W. F. Co., 730 S. 12th
Todd, Donigan Iron Co., 817 W Main
Wulff, W. C. & Co., 601 E Jefferson
MAYSVILLE—Leonard & Lally
McClanahan & Shea
Rasp, R. & W.
NEWPORT—Rust, Lawrence & Son
Wagenlauder, Fred & Co.
OWENSBORO—Guenther, W. A. & Sons
Southern Foundry Co.
PADUCAH—Davis, G. R. & Bro.
Maret, J. C.

## LOUISIANA.

NEW IBERIA—Ribbeck, R. P.
NEW ORLEANS—American Sheet Metal Works
Gulf Galvanizing & Metal Works
Nelson, A. J. Mfg. Co.
New Orleans Roofing & Metal Works
Redmond, B. V.
SHREVEPORT—Bain, H. H.
Wortman, E.

## MAINE.

AUGUSTA—Malcolm & Dyer, 159 Water
Taber & Reid, 269 Water
BANGOR—Clement, Carter & Co.
Leighton Plumbing & Heating Co.
BATH—Barton, Geo. H.
Rogers, C. W.
Watson, W. H.
Winslow, J. A. & Son
BELFAST—Stickney, John B.
Wright, C. L.
BIDDEFORD—Antholne, Geo. A.
Lowell, John B.
BRUNSWICK—Ridley, Geo. B.
EASTPORT—Martin, E. S. & Sons
Spates, Wm. T.
ELLSWORTH—Aiken, F. B.
LEWISTON—Korneffel, F. & Son
Stetson, Jos. H. Co.
MACHIAS—Crane Bros.
MECHANIC FALLS—Hawkes & Whitney
NEWPORT—Deering, R. A. & Son
NORWAY—Crooker, J. O.
Leavitt, W. C. Co.
OLD ORCHARD—Robinson, Wm.
PORTLAND—Alexander, A. R.
Hollivan & Parker
Hutchinson & Cain
McBrady, Jno. E. & Son
Nash, F. & C. B. Co.
Nash, O. M. & D. W.
Scott, Wm. H. & Co., 33 Union
Wheeler, F. E., 645 Forest av
ROCKLAND—Sleeper Bros.
SANFORD—Huff, Geo. W.
SKOWHEGAN—Steward & Blunt
Wood, F. A.
WALDSBORO—Curtis, C. H.
Richards Bros.

## MARYLAND

BALTIMORE—Bartlett, Hayward & Co., Continental bldg
Cotton, Wm. E., 1303 Harford av
Fingles, W. A., 29 S. Howard
Hetzell, John G. & Son, 225 N Howard
Kohlhepp, Anthony, 404 N Howard
Lenderking, P. H., Jr., Dillon & Patuxent
Northwestern Cornice Works, 1500 Penn. av
Parsons, N. E., 548 Falls rd
Pruden, C. D. & Co., Warner, Bayard & Vaile & Young, 216 N Calvert Dock
Vollenweider, J., 1506 Penna av
Wilhelm, J. Frank, 748 Penna av
Zimmers, A. M., 1808 Frederick av
EASTON—Hartnett, W. J.
Shannahan & Wrighton Hardware Co.
FREDERICK—Fox, Henry K. C.
HAVRE DE GRACE—Murphy, J. T.
HAGERSTOWN—Danzer, Albert
ROCKVILLE—Viett, Henry
REISTERSTOWN—Brown, J. V.
SALISBURY—Dorman & Smyth Hdw Co.
Gunby, L. W. Co.
Salisbury Hardware Co.

## MASSACHUSETTS.

ASHLAND—Enslin, Franklin & Co.
ATTLEBORO—Flynn, Wm.
BOSTON—Anderson, C. & Co., 41 Way
BADGER, E. B. & SONS CO. (Also Copper), 75 Pitts. (See adv. index, end of book)
Buchanan, Geo. J., 85 Commercial Wharf
Feeney, John, 31 Blossom
Finkelstein, M., 37 Spring
Forrest, Alfred W., 464 Harrison av
Harrigan, J. & Son, 111 Liverpool
Hicks, S. D. & Son, 17 Bowker
Jeffers, Wm., 77 Joy
Kalman, Joseph & Son, 152 Chelsea, E B
Maguire, W. J., 46 Cornhill
Marley Bros., 618 Harrison av
Mayberger, Edw. F., 1 Willow Park
Pempel, Fr., 1462 Columbus av
Pempel, Geo. C., 27 Eustis
Raymond, J. B. Co., 223 Atlantic av
Union Cornice Co., 7½ Appleton
Van Noorden E. Co., 100 Magazine
Young, D. A. Co., 229 Milk
BROCKTON—Carr, J. E. & Sons
CAMBRIDGE—Brock Bros.
Douglass, Geo.
Eagle Cornice & Skylight Works
CHICOPEE FALLS—Enright, P. J.
CLINTON—Maitland, Robert & Son
O'Toole Bros.
FAIRHAVEN—Delano, C. F.
Forrest, E. W.
FALL RIVER—Fall River Sheet Metal & Cornice Works
Hughes, James T.
FITCHBURG—Jennison Co.
GARDNER—Curtis, H. O.
HOLYOKE—Friedrich, E. H.
HUDSON—Glines, Mrs. G. Fred.
HYDE PARK—Johnson, A. J.
LAWRENCE—Forbes, Wm. & Sons
LEOMINSTER—Burrage, H. E. Co.
LOWELL—Costello, Thomas & Co.
Cushing, D. & Co.
Hanchett & Co.
Lowell Furnace Co.
Mack, W. A. & Co.
Stewart, J. W.
Wilder, H. H. & Co.
MALDEN—West, Alonzo A.
MANCHESTER—Beaton, D. T.
Carter, J. W.
MARLBORO—Hall, G. R. & Co.
Hill, W. H.
MELROSE—Brock Bros.
METHUEN—Sanborn Furnace Co.
NEW BEDFORD—Wood, Brightman & Co.
ROCKPORT—Smith, L. E.
Thurston & Hale
SOUTHBRIDGE—Winter, G. C.
SOUTH HADLEY FALLS—Moriarty Bros.
SPRINGFIELD—Atwater, E. C. & Co.
Beebe, N. S.
Brunton, M. J. & Son
Estabrook, Geo. R.
Hampden Cornice Works
Pratt, H. J. & Co.
Wilson, Robert
STOCKBRIDGE—Van Duzen, Mrs. John O.
STOUGHTON—Burrell, H. G.
Deacon, D.
TAUNTON—Munroe Plumbing Co.
Newball, G. S.
Whitmarsh, I. F.
Wordell, E. & Son
WALPOLE—Spear, H. A., Jr.
WALTHAM—Carr, F. C.
Codyer & Cavanaugh
WEBSTER—Bates, A. J. & Son
Rosebrooks & Cummings
WORCESTER—Barnard, Geo. A.
New England Steel Roofing Co.

## MICHIGAN.

ALLEGAN—Phillips Bros.
ALPENA—Campbell, W. H.
BATTLE CREEK—McCallum, Wm.
Peterson, J. G.
Wattles & Strong
BAY CITY—Walther, A. & Sons
CALUMET—Carlton Hardware Co.
CASSOPOLIS—Hayden, W. R. & Son
CHARLEVOIX—Charlevoix Hardware Co.
CHARLOTTE—Munger, J. W. & Sons
CHEBOYGAN—Cueny, J. E. & Bro.
Post, J. J. & Co.
COLDWATER—Allen, D. C. & Co.
Chandler & Lee
Kerr Bros.
DETROIT—Basman, A. M. & Co.
Berschbach & Herz, 634 Gratiot av
Bertling, Paul C., Hancock & 18th

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**BURTON, W. J. CO., 161 W. Congress.** (See adv. index, end of book)
Detroit Cornice & Slate Co., 145 St. Antoine
Eagle Cornice & Roofing Co., ft. of 24th
Hines, H. C. & Co., 354 Humboldt av
Howle Roofing Co., 370 4th av
Hutton, Robt. & Co., 112 Fort, E
Lewis, Henry B., 45 Jos. Campeu av
Michigan Cornice & Slate W'ks, 117 Fort, E
Pudrith & Candler, 74 Brush
Union Sheet Metal Works, 317 Farnsworth
Voigt & Sexauer, 146 Sherman av
ESCANABA—Delta Hdw. Co.
Escanaba Hdw. Co.
EVART—Smith, J. K.
FLINT—Foote, C. E.
Hubbard, George W. Hardware Co.
FREMONT—Hain, G. E. Co.
GRAND RAPIDS—Grand Rapids Steel Metal & Roofing
Hopson, W. C. Co.
Sokup, F. J.
Sproul & McGurrin
Weatherly Co.
HOLLAND—Van Landegend, G. A.
Van Landegend, Tyler
HOUGHTON—Portage Lake Hdw. Co., Ltd
HOWELL—Schroeder, F. P.
ISHPEMING—Eggan, F. J.
Jochim, J. W. Hardware Co. (Ltd.)
JACKSON—Creque, Josiah
Daly & Rutherford
McGraw & Crone
McLean, Frank & Co.
Oleslager, John B.
KALAMAZOO—A. & D. Sheet Metal Works, Kalamazoo Galvanizing Works
Lakey, A. L., Co.
Middaugh, E. H.
LANSING—Fleming, Jas.
Mudford, Wm.
LAPEER—Gray, Sidney T.
LUDINGTON—Bradl, Frank
Goodsel, B. J. Hdw. Co
Huston, H. V.
MANISTEE—Lloyd & Smith
Manistee Iron Works
Miller, Wm.
MARQUETTE—Clark, D. M.
Manhard, M. R. & Son
MENOMINEE—Bertholdt, H. C.
Fernstrum, F. G.
Northern Hardeware & Supply Co.
MIDLAND—Reardon Bros. Merc. Co.
MUSKEGON—Towner Hardware Co.
NEGAUNEE—Lucas, H. N.
Neeley, Benjamin
NORTHVILLE—Huff, James A.
PLYMOUTH—Connor Hdw. Co.
PORT HURON—Dart, James A.
QUINCY—Cole, S. B.
ROCHESTER—Tienken & Case
SAGINAW—Bartlett, A. F. & Co.
Eagle Cornice Works
Leverer, J. S.
Martin, B. & Son
Saginaw Sheet Metal Works
Taub, H. L.
Valley Cornice & Slate Co., Ltd. (Also Copper), 300 N Hamilton, W. S.
SAULT SAINTE MARIE—Soo Hdw. Co.
SHELBY—Rankin, A. J.
TECUMSEH—Satterthwaite Bros.
VASSAR—Dean, H. C.

## MINNESOTA.

DULUTH—Burrell & Harmon
Deetz & Co.
Duluth Corrugating & Roofing Co.
Helbing, L. R. Co.
Hollihan & Milostan
Star Roofing & Cornice Works
ELYSIAN—Elysian Hardware Co.
FERGUS FALLS—Bauer, Jos.
MINNEAPOLIS—Crittenden Roofing & Mfg. Co.
Gerber, J. J., 128 6th av S.
Nees, Louis & Co., 1207 S 3d
Northwestern Roofing, Cornice & Stamping Works, 1113 S 5th
Selden Roofing & Manufacturing Co.
Stremel Bros. Roofing & Cornice Co.
Townsend, A. W., 20 2d, S
NORTHFIELD—Northfield Furnace Co.
OWATONNA—Parrott & Smith
RED WING—Swanson & Anderson
ST CLOUD—Ladner, C. F. Hardware Co.
Powell Hdw. Co.
ST. PAUL—Bergstrom, Mrs. Carl
Griffin & Boehme, 121 W University av
Haag, Joseph, Roofing & Cornice Co.
Lefebvre-Deslauriers Roofing & Cornice Co.
Minnesota Roofing & Cornice Works
**ST. PAUL ROOFING, CORNICE & Ornament Co.** (See adv. index, end of book)
Staples & Staples
ST. PETER—Feldman, Chas.
WINONA—Magnus & Wilktns

## MISSISSIPPI.

NATCHEZ—Mulvihill, P. W.
VICKSBURG—Bruser, W. H.
YAZOO CITY—Cummings, M. F.
Jenne Bros

## MISSOURI.

BOONVILLE—Vanatta, Frank
BUTLER—Bennett-Wheeler Mer. Co.
CAPE GIRARDEAU—Brunkhorst, A. F.
Vogel, W. H.
CARTHAGE—Carthage Cornice Works
DE SOTO—Slawson, A. F.
HERMAN—Eberlin, Christ & Son
INDEPENDENCE—Hill & Martin
KANSAS CITY—Geis, John J.
Kansas City Furnace Co.
Monarch Metal Mfg. Co.
Stophlet, Frank C., 12 E Missouri av
Twichell Iron Co.
Van-Stone, Walter, 1710 Walnut
Wels, Henry Cornice Co.
Wiedenmann, W. C.
KIRKSVILLE—Eggert, S. L.
LEBANON—Koby, Victor
LEXINGTON—King & Marrs
Schawe, G. C.
Yungling, C. E.
Weis, W. F.
MOBERLY—Stauffer, P. & Co.
NEOSHO—Briggs Hdw. Co.
ST JOSEPH—Langan, Peter
Seaman & Schuske Metal Works Co.
St. Joseph Cornice Works
Wehrman, Wm.
Whelan, Alex.
ST. LOUIS—Albert & Fischer Hdw. & Sheet Metal Co., 2529 S B'way
Axthelm, August W., 4054 Olive
Auer, F. E., 3507 N 22d
Bannantine Galvanized Iron Mfg. Co., 117 Soulard
Bannon, Jno. F. & Co., 1601 Lafayette av
Caplan Galvanized Iron Cornice Co., 906 N
Clemens, Jno., 1922 S 7th Market
Delmar Cornice & Furnace Works, 4723 Easton av
Eagle Metal Works Co., 1512 Clark av
Eberle, J. & Son, 4014 Laclede
Excelsion Tinware Cornice Co., 7821 Ivory
Fleck, Chas. W., 3635 S B'way av
Gerock Bros. Mfg. Co.
Giessow, O. Cornice Works, 3721 Cass av
Gruendler, A. H., 1018 Cass av
Hammond Sheet Metal Mfg. Co., 2d & Cass av
Herman, Morris, 1916 Union av
Higgins, J. F. & Co., 3619 Easton av
Hoffman & Kendall
Hopmann Cornice Co., 2502 N Jefferson
Huber Cornice Co., 2514 Newhouse
Huber, Julius P., 3744 St. Louis av
Knox, Thos. & Co., 4008 Easton av
Kohlmeyer, Geo. E., 8222 N B'way
Larkin, M. P., 2823 Easton av
Mesker Bros., 421 S 6th
Mound Rose Cornice Works, 716 N Euclid
Palubiak & Son, 4107 Chippewa av
Powers & Boyd Cornice & Roofing Co., 3614
Richert, A. & Son, 1921 Benton Laclede
Rowland Sheet Iron & Cornice Works, 3713 Cass av
Ruth, Jno. F. Cornice Works, 4299 Easton
St. Louis Cornice Co., 1914 Union
Sidler, B., 1823 N. Taylor av
Souther, E. E. Iron Co.
Stark, Henry & Co., 901 Victor
Symonds, H. W., 2615 Arsenal
Tiernan, Luke, 1019 Chestnut
Von der Au & Cluss Mfg. Co., 2408 S Jefferson
Wellston Galvanized Iron & Cornice Works, 6222 Easton av
West End Cornice Works, 4740 Delmar
Wilsdorf, M. A., 1814 Sidney
Zitko, Chas., 17 N Ewing
Zuber, G., 3117 S B'way
SPRINGFIELD—Anslinger, Kate D.

## MONTANA.

ANACONDA—Copper City Commercial Co.
BOZEMAN—McCay, H. B.
BUTTE—Dorhoffer, F. J.
GREAT FALLS—Great Falls Iron Works
Murphy-Maclay Hardware Co.
HELENA—Adams Heating & Plumbing Co.
McKinnon, H. A.
Rummell, J., Estate of
KALISPELL—McIntosh Hardware Co.

## NEBRASKA.

BEATRICE—Spieler, Jos.
FREMONT—Globe Cornice Works
Smith, F. M. & Son
HOOPER—Heine, J. F. & Son
KEARNEY—Kearney H'ware Co.
LINCOLN—Gaiser Beutler
NORTH PLATTE—Fillion, Jos. T.
OMAHA—Bjornson & Haas
Carter, R. L.
Cox Furnace & Tin Co.
Epeneter, G. F.
Kastl, J. F.
Knecht, Chas.
Olson Bros.
PLATTSMOUTH—Kroeler Bros.

## NEVADA.

GOLDFIELD—Shillington, J. E. & Co.
RENO—Nevada Plumbing & Sheet Metal Works

## NEW HAMPSHIRE.

BERLIN—Berlin Mills Co.
CONCORD—Bailey, W. T.
MANCHESTER—Lawson, H. J.
Pike & Heald Co.
O'Brien, M.
PORTSMOUTH—Paul, W. E.
Sweetser, J. G.

## NEW JERSEY.

ATLANTIC CITY—Atlantic City Cornice Works
Currie Co.
Horan, Mich. J.
BAYONNE—Devaney, Jno. J. & Co.
Gilbertson, J.
BERNARDSVILLE—Bromfield, W. R.
Griffith, C. H.
BOONTON—Kopps, Jno. I. Sons
BOUNDBROOK—Williams, Thos. F.
Zepp, W.
CAMDEN—Cole, Chas. A., Est.
Metallic Mfg. Co.
Trago, Waldo R. Co.
ELIZABETH—Elizabeth Cornice Works
Faulks, Jas. H. Co.
ENGLEWOOD—Beck, Wm.
Dubois, Chas. L.
Hickey & Baker
HARRISON—Godby, W. H. & Bro.
HIGHTSTOWN—Taylor, Jas. A.
HOBOKEN—Dorsett, T. W. Co.
Leonard Sheet Metal Works (Inc.)
IRVINGTON—Central Cornice & Skylight Wks
JERSEY CITY—Donovan, D. F., 390 7th
Henningsen, Henry Co.
**NATIONAL SHEET METAL ROOFing Co., 339 Grand.** (See adv. index, end of book)
New York Iron Roofing & Corrugating Co.
Ringle, Jacob & Son (also Copper, etc.)
Schreck & Waelty, 27 Hague
LONG BRANCH—Warwick, W. R., Jr.
NEWARK—Allwood, J. R. & Son, 39 Marshall
Baier & Conrad, 336 Hunterdon
Berla, Elias, 232 Mulberry
Bleecker, Jos. 130 South
Ding & Teuscher, 476 18th av
Engelberger, F. & W. V. Co., 159 Jeliff av
Essex Cornice & Skylight Works, 9 17th av
Fidelity Plumbing & Roofing Co., 65 Academy
Howarth Bros. Co., 27 Commercial
Lowe Bros. Co., 207 Berkeley av
Newark Cornice & Skylight Works 9 17th av
Pfennig Bros., 224 Ferry
Schaefer, Wm. F., 115 Belmont
Schwing, G. & Son, 10 Hobson
Simpson, Albert J., 223 Clinton av
Smith, Frank F., 19 Division
Steinberg, Jacob, 229 Belmont av
Zenglein, John A., 45 Winans av
PASSAIC—Palstrom & Tornquist Co.
PATERSON—Lendrim, H. C. Co.
McNeil, Lawrence W.
Quinn Bros.
Rogers, Andrew J. Co.
PRINCETON—Margerum, H. W.
Stryker, A. Y.
RARITAN—Wyckoff, J. C.
RED BANK—Patterson, J. C.
RUTHERFORD—Tallman, S. C.
SALEM—Righter, J. C.
TRENTON—Trenton Excelsior Cornice Wks
WEST HOBOKEN—Gutschmidt, W. H.
Sutter, Louis
WOODBURY—Kleinhanz, Jno. V.
Muller, Harry

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## NEW MEXICO.

ALBUQUERQUE—McClaskey, W. A.

## NEW YORK.

ALBANY—Ackroyd, Jas. & Sons
Fitzgerald, Jno. L.
Gorman, Jas. J.
Hoffmann, J. H. B.
Walsh's, Jas. D. Sons
AMSTERDAM—Dwyer, Cornelius
Dwyer Bros.
AUBURN—Hungerford, J. A.
BALLSTON SPA—Tracy, John J.
BINGHAMTON—Freeman, E. G. & Co.
McIntyre, P. O.
Lynch, Jno. R. & Son
Young, J. J.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bauer's, Chas. Sons, 159 William
Christmann, Philip & Sons, 858 Virginia
Christmann, Philip, Jr., 652 Elm
Degenhaart & Co., 1910 Niagara
Fisher, Martin & Sons, 75 Chippewa
Gruber, Rupert & Co., 541 Sherman
Kempel, Chas. J., 113 Bessell av
Kener, Edw., Jr., 410 Connecticut
Lindsay, Wilson, 167 E Ferry
Lipp & Minet, 148 Pratt
Machwirth Bros Co. (Also Copper, etc.), Nies & Son, 430 B'way 201 Oak
Peters, G. H. Co., 289 Oak
Rademacher Bros., 343 Fox
Reiber, Martin, 255 Stanton
Roty, A. & Son, 206 High
Tingler, F. J. & Son, 121 W Eagle
CANASTOTA—Bemiss & Co.
CATSKILL—Day & Holt Co.
CATTARAUGUS—Eberlee, T. J.
Jewell, J. H. & Sons
COHOES—Loop, Wm. H.
CUBA—Sisson & Smalley
DOBBS FERRY—Siess, A. C.
ELMIRA—Barker, Rose & Clinton
Gridley, G. A. & Son
Young, Chas. W.
FORT PLAIN—Linney, W. T.
Stewart & Bergen Co.
FULTON—Johnston, Geo.
GLENS FALLS—Adams, G. E. & Co.
HUDSON—Macy, Frank A.
JAMAICA—(See New York City, Borough of Queens)
KEESVILLE—Callanan Bros.
KINGSTON—Wieber, Henry E. (Est. of)
LESTERSHIRE—Becker, C. D.
LONG ISLAND CITY—(See New York City, Borough of Queens)
LYONS—Hartman, Wm. T.
Marshall Barrick Co.
Zimmerlin Bros.
MARLBORO—Hughes, T. H.
MECHANICSVILLE—Allen, Wm. H. & Son
MOHAWK—Richardson Co.
MORAVIA—Small, F. & Sons
MOUNT KISCO—Gorham, G. W.
MOUNT VERNON—Norden, J.
NEWBURGH—Atlas Roofing Co.
NEW ROCHELLE—Heimrich, Geo.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Blecher Bros., 49 Nostrand av
Buchanan, Wm., 490 Sumner av
Davis, Jno., 170 Court
Friedberg & Klein, 55½ Harrison av
Friedman, S. M. Co., 95 Cedar
Fuchs, Louis, 1267 Gates av
Gartenberg, Morris, 426 6th av
Gorlitz, S., 64 Reid av
Greenthaler, Chris., 333 Thorp av
Halpin, Jas., 936 De Kalb av
Herrmann & Grace, 671 Bergen
Hoellerer, Geo. Jos., 91 Union av
Kuhnla, August, 10 Lorimer
Kuhnla, Ernest & Sons, 71 Hinsdale
Muller, E. A. & Bro., 687 4th av
Ostergren, Samuel & Sons, 725 3d av
Otto, J. M., 46 Manjer
Seton, Frank J., 78 Washington av
Waldhauer, Stevens Co., 1723 Nostrand av

### Boroughs of Manhattan & Bronx.

NEW YORK—Abbott's, M. Sons, 137 8th av
Architectural Cornice & Skylight Works
Beer & Hess, 223 W 35th 4121 Park av
Berglund, Chas. & Son, 774 3d av
Bickhardt, Andrew, 3540 Bronx blvd
Blayer, Chr., 20 Bradhurst av
Blechner, Albert, 675 Bergen av
Blechner Bros., 43 1st
Bois Sheet Metal Works, 1836 Washington
Borkel, Jno. & Co., 42 E. Houston av
Cary-Doerhoefer Co., 124 E. 129th
Coleman & Krause, 515 W 29th
Deutsch, Jacob, 17 Stanton
Dietze, Oscar, 208 E. 74th
Dreyer, Louis Co., 227 W. 66th
Dunn, L. J., 164 E 120th
Empire Cornice Works, 1801 First av
Freyberg, Rich. H., 2308 2d av
Garfein & Co., 304 E. 150th
Harrison, M. & Son, 214 E 52d
Hilts, Wm. H., 82 W. 3d
Hinz, Albert, 403 E 16th
Kanzler, Chas., 618 E 154th
Krauth, Karl, 3 Horatio
Liess, N., 2381 Bathgate av
McFARLAND, J. C. & CO., 213 and 215 E 44th. (See adv. index, end of book)
Manhattan Tin Roofing Co., 118 E. 109th
May, Wm. M., 798 11th av
Morrow, John Co., 225 W 50th
Muller, R. & O., 358 E 151st
Murphy, Geo. M., 43 New Chambers
Neil's, John Son, 436 W 17th
New York Cornice Works, 230 E. 22d
North Side Cornice & Roofing Co., 1519 Oppel, Rudolph, 230 E 22d Castle Hill av
Pasewark, C. H. & Co., 347 E 105th
Perske, Frank, 439 E. 92d
Peters, Wm. C., Carter av, c. E. 176th
Pfeiffer Bros., Jerome av & 169th
Preusser, Jno., 302 W 122d
Samet & Silverman, 219 Av C
Saron, David, 2164 Madison av
Schwoerer, A. & Sons, 530 E 80th
Smith & Dorsett, 405 E 47th
Sommerfeld, A., 4121 Park av
Star Cornice, Skylight & Roofing Wks., Storch, L. A. & Co., 517 E 73d 569 3d av
Vincent, Wm. E. D., 133 E 118th
Walther, Max, 532 E 142d
Weiss, Morris L., 406 E 25th
Westergren, M. F. (Inc.), 213 E 144th
Winter, Jacob Co., 712 Lexington av

### Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 307 Jackson av
Petry, John W., 63 Vernon av

**(End of New York City)**

NEW YORK MILLS—Hastings, M. E.
NIAGARA FALLS—Mackwith Bros. Co.
OLEAN—Pierce, O. W.
ONEIDA—Lype, Norman
OSWEGO—Oswego Hdw. Co.
PENN YAN—Hollowell & Wise
POUGHKEEPSIE—Aldrich, Elbert Co.
RAVENA—Strevell & De Friest
RED HOOK—Curtis, J. A.
ROCHESTER—Calder, Robert, 86 Exchange
Fricker Co., John, 10 Ely
Knowles & Peck, 50 Franklin
Ratt & Smith, 40 Stone
Rochester Roofing & Heating Co.
Schoenemann, Fred, 382 St. Paul
Siddons, John Co., 61 N Water
RONDOUT—(See Kingston)
ROUSES POINT—Chilton, Geo.
SCHENECTADY—Allen, Jno.
Case, Levi & Co.
Craig & Vrooman
MacGregor, Thos. F.
Vrooman, J. V. Sons
SCHUYLERVILLE—McRae, G. S. & Co.
SHELTER ISLAND—Harris, C. S.
SYRACUSE—Blant, Jos. A.
Bradford & Deruchie
Cashman & McCarthy
Curran, Jas.
Gooleyy, W. F.
TONAWANDA—Koenig, H. B.
TROY—Loeble, Wm.
Manogue, Edw'd Co.

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

UTICA—Metal Roofing & Cornice Co.
WARWICK—Montross, A. W.
Ogden & Pelton
WATERTOWN—Arthur, H. S.
McCrady, A. C.
Spratt, Corcoran & Foley Co.
WATKINS—Durland, L. H. Son & Co.
WELLSVILLE—Hoyt Hdw. Co.
WHITE PLAINS—Fowler & Sellars Co.
YONKERS—McVicar, Thos.
McVicar, Wm. H.
Scholding, C. E.

## NORTH CAROLINA.

ASHEVILLE—McPherson, Jos. C.
CHARLOTTE—McCausland, J. N. & Co.
Ray, G. G. & Co.
Shuman, C. F.
GREENSBORO—Yates, J. F.
Yates, J. F.
WINSTON SALEM—Brickenstein, L. B.

## NORTH DAKOTA.

FARGO—Fargo Cornice & Ornament Co.
WAHPETON—Jamieson, W. W.

## OHIO.

AKRON—Akers & Harpham
Akron Roofing Co.
Kasch Roofing Co.
May Fieberger Co.
ALLIANCE—Love Casselman & Co.
CADIZ—Bryan, H. E.
CAMBRIDGE—Cambridge Roofing Co.
Hartley, W. H. & Sons
CANTON—BERGER MFG. CO., THE. (See adv. index, end of book)
Canton Art Metal Co.
CANTON MFG. CO. (Cornices & Skylights). (See adv. index, end of book)
Eller Mfg. Co.
Kanneberg Roofing & Ceiling Co.
CINCINNATI—Andler, Adam, 3023 Highland
Beckman, Wm., 1543 Race av, Mt. A.
Blum, Albert, Weyer & Allison
Boesch, Victor P. & Son, 2432 Eastern av
Brandis, William, 3109 Reading rd
Dearking, Fred W., 3829 Glenway av
Dirr, George L. & Son, 1122 Seon av P. H.
EDWARDS MFG. CO., 545-565 Eggleston av. (See adv. index, end of book)
Emmers Cornice Co., 1007 B'way
Fahnle & Dietrich, 537 Oliver
Fisher, Philip, 1066 Central av
Freund, J. Roofing Co., Mitchell av & B. & O. S. W. Ry.
Greiwe, E. & Bro., 1128 B'way
Grueninger, Louis, Court & Freeman av
Hauck, Michael, 14 E 13th
Hirt Bros., 1814 Race
Jansen, John F., 2133 Deerfield av
Kobmann, Chas., 1919 Central av
Kopelent, Henry, 2723 Vine
Meyer, Edw. & Co., Elm & Green
Nearbrey, J. H., 637 W. Court
Porter Iron Roofing & Corrugating Co., 522 Culvert
Queen City Exhaust & Blow Pipe Co., 1732
Rothert, Heeg, 1603 Main Central av
Scott Roofing & Mfg. Co., 408 Culvert
Spatz, Wm. C., Powers & Colerain av
Standard Roofing Co., 1662 Providence
Sweeney, J. A. & Co., 829 W 5th
Verges, Ferd. F., 2543 Vine
Weigel, John Co., 664 E McMillan
Weissenberger, Geo. K., 4006 Spring Grove
Witt & Brown, 215 W 3d av
CLEVELAND—Callaghan, J. & Son, 1119 Superior, N E
Cleveland Galvanizing Works Co., 3924 Cooper, N E
Cleveland Metal Roofing & Ceiling Co., 3105 Detroit
Garry Iron & Steel Co., 1111 Superior
Mannen & Esterly Co., 2247 St. Clair
Ohio Roofing Co., 1831 E. 37th
Ortli, Chas. F., 2510 Barber av
Riester & Thesmacher Co., 1512 W 25th
Rudolph & Son Co.
Rudolph & Son Co., 416 Prospect av, N W
Schorndorfer Hardware Co., 7601 Woodland
Standard Galvanizing & Tack Mfg. Co. av
Stran, C. W., 1288 E 9th 726 Canal rd
COLUMBUS—Calkins, W. R. & Sons
Schilling, John N., 193 N Grant av
Schoedinger, F. O.
Schoedinger-Marr Co.
DAYTON—Bretch, A., 125 E 5th
Buvinger, G. W. & E. E.
Couch, A. M., 1528 W. 3d
Hoersting & Holtmann, 1124 W 3d

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Jungelas Cornice & Furnice Works, 609 W. Washington
Kenney, J. R., 251 S. Wayne av
Rieck, H. F., 508 S Wayne av
Wuichet, Chas. & Co., 14 S Canal
EAST LIVERPOOL—Watson, A. A.
ELYRIA—Elyria Hdw. Co.
FINDLAY—Fiscus, W. J.
Hoffman & Bryan
Klein, Fred
FOREST—Dickelman Mfg. Co.
FOSTORIA—Baker, W. E.
Ballmer, D. R.
Newson, Jas. L.
Stewart Hdw. Co.
GALION—Sponhauer, H. C.
Zimmerman, J. H.
GLENDALE—Dollman, J. W. & Son
Schatzman, P. & Son
GREENVILLE—Beedle, C. & Son
Humphreys, R. T.
HAMILTON—Bauer, E.
Becker, Jno. L.
Schlosser, Jacob & Son
Zschau, A. E.
IRONTON—Fillgrove, Louis A.
KENT—Reed, C. R.
LIMA—Smith, Wm. A.
LORAIN—Weimer, C. A.
MANSFIELD—Crouse, F. & Son, 21 N Park
Donaldson, G. W.
Flohr, G. A.
Hoffman, Chas.
Martin, C. E. & Bro.
Runyan, C. C.
MARIETTA—Theis, H. P.
MARION—Saiter, F. R.
MARYSVILLE—Church Hardware Co.
Scott, O. M. & Bro.
MEDINA—Oatman Fisher Furnace Co.
MIAMISBURG—Schell, J. A. & Son
MIDDLETOWN—Fouts, C. C.
MILLERSBURG—Fitch, John & Son
Shoup, C. C.
NILES—Cramer Bros.
Unger, F. S. & Co.
PIQUA—Lee, Geo. E.
PORTSMOUTH—Glockner, Alexander M.
SALEM—MULLINS, W. H. CO. (Also Copper), 341 Franklin. (See adv. index, end of book)
SANDUSKY—Mertz, J. & Sons
SHELBY—Armstrong & Rauch
Standard Mfg. Co.
SPRINGFIELD—Hauck, Chas. F. & Co.
Lafferty, Sam'l J., & Sons
Peet & Schuster Co.
TOLEDO—Curran & Firth, 620 Monroe
Gerken, J. D. & Co., 1311 Washington
Hofer, Fred, Jr., ft Washington
Hoffman & Harpst Co., 1005 Cherry
Toledo Cornice & Copper Works, 130 Ottawa
Warnke Bros. Co.
Wolf Hardware Co.
Wortsmith, Frank, 415 Huron
WARREN—Browning Bros.
Skinner, L. E.
WASHINGTON, C. H.—Allen, Chas.
Wilson, J. W. & Co.
WELLINGTON—Peirce, A. H.
WILMINGTON—Jefferis, J. M., & Son
WOOSTER—McClure Co.
XENIA—Henrie, C. C.
YOUNGSTOWN—Dalzell Bros.
Squire, Jno. R.
Youngstown Iron & Steel Co.
Youngstown Sheet & Tube Co., The
ZANESVILLE—Hanlon & Saup
Ludy, J. W.
Snyder Roofing Co.

## OREGON.

ALBANY—Albany Hardware Co.
BAKER CITY—Basche-Sage Hardware Co.
GRANTS PASS—Coron, Booth Hdw. Co.
Cramer Bros.
McMINNVILLE—Hodson, O. O.
PORTLAND—Bayer, J. C.
Moore-Meagher Co.
Tilton Bros.
Wynkoop, Lyman, W.
SALEM—Barr, T. M.
Fraser, A. L.

## PENNSYLVANIA.

ALLENTOWN—Allentown Cornice Works
Best, J. A. & Co.
Hersh & Bro., 829 Hamilton
Miller, Jacob, 535 Linden
Neff Bros.
ALTOONA—England, S. B.
Garrahan, P. F.
Hughes, J. C. & Son
Johnson, A. A.
Klesius, G., 609 12th
ARDMORE—Whelan, Martin
ASHLAND—Lauer, J. J.
McConnell & Bro.
BEAVER FALLS—Davidson, W. J.
BELLEFONTE—Twitmire, W. T.
BETHLEHEM—Lehigh Valley Cornice Works
BRADDOCK—Loew, John A. & Co.
Shirer, John W.
BUTLER—Campbell, J. G. & W.
Hauck, F. J.
CARNEGIE—Rome, George & Co.
CHESTER—Doran, Jno. A.
Goodman, K. & Son
Ward, Hugh H.
CLEARFIELD—Johnson, F. & Bro.
Powell, W. F.
CONNELLSVILLE—Munson Bros.
CORRY—Barlow Hdw. Co.
Guignon, E. E.
Guignon, H. A.
Miller & Stuart
DUQUESNE—Thomas, G. E.
EASTON—Arndt, Wm.
Kinsey, Howard P.
Miller, E. H.
Stotz Bros.
EAST STROUDSBURG—Lessig, J.
ERIE—Braggins, John H.
Miller Hardware Co.
Murphy Bros.
Patterson & Stirling
GIRARDVILLE—Griffiths Hardware Co.
GREENSBURG—Overly, W. F.
HALLSTEAD—Rogers, Jos. B.
HANOVER—Bargelt, Louis
HARRISBURG—Fager, G. C. & Son
Zollinger, G. J.
HAZLETON—Barber, Robert B.
Koehler, Fred.
HOMESTEAD—Snyder, Louis B.
HONESDALE—Erk Bros.
Watts, G.
INDIANA—Alter, C. A.
JOHNSTOWN—Doyle, Frank
Fenn, Wm. J.
Friedhoff & Mahaffey
Joy Bros.
KINGSTON—Johnson, H. F. & Sons
LANCASTER—Arnold, John L.
Pohl, John E.
Sheet Metal & Supply Co.
LOCK HAVEN—Fickinsher, Fred.
McKEESPORT—Kemp, Jas. F. & Bro.
Matthews, Lewis K.
MAHANOY CITY—Morgan, William
MECHANICSBURG—Hauck Bros.
NANTICOKE—Hill & Evans
NICHOLSON—McConnell & Lord
OIL CITY—Booker Sheet Metal Wks.
PEN ARGYL—Correll, R. S.
PHILADELPHIA—Abronski Bros., 1615 Stiles
American Metal Cornice Works, 1224 Ontario
Arensberg & Clemence, 924 Moyamensing
Bohem, A. & G., 1438 Federal
Bondurant & Schuch (Inc.), 2024 W 10th
Byrd, John, 1433 Catherine
Caulton & Co., 5002 Willows av
Central Cornice Works, 3420 Market
Enterprise Cornice Works, 4714 Market
Excelsior Cornice Works, 515 Lombard av
Gara, McGinley & Co., 23 S 17th
Germantown Cornice Works, 162 E Chelton av
Girard Cornice & Roofing Co., 2318 Market
Graber, Francis, 2306 N 3d
Humphreville, Edward, 2641 N Hutchinson
Lupton's, D. Sons Co., Allegheny av & Tulip
McFARLAND, MEADE ROOFING Co., Woodlawn av & 46th
Northwestern Cornice Works, 2639 Hagert
Penn Metal Ceiling & Roofing Co., 23d & Hamilton
Thorn, J. S. Co. (Also Copper), 20th & Allegheny av
PHOENIXVILLE—Caswell & Moore
PITTSBURG—Allegheny Cornice & Skylight Co. (Also Copper), North Side
Cassidy & Dinkel Co., 2908 Penn
Irwin, Thos. W., North Side
Kirsch, Jacob, 3234 Penn av
McIlroy, J. D. & Sons, 508 2d av
Rasner & Dinger Co., 100 2d av
Scholes Bros., North Side
PITTSTON—Byrne, Jno. W.
PLYMOUTH—Dymond, E. P.
POTTSVILLE—Herbrick & Co.
Hoefel, Frederick
READING—Hafer, J. D.
Hain, Wm. T.
Yeager, Wm. B.
RIDGWAY—Bowen, S. E.
Cody, C. L.
Smith Bors. Co. (Ltd.)
SCOTTDALE—Dick, J. I.
SCRANTON—Derby, W. H.
Gunster Bros.
SHAMOKIN—Unger, Warren
SHARON—Hoffman, P. & Sons
Hoffman, J. C. & Bro.
United Skylight & Cornice Co.
SOUTH BETHLEHEM—McBride, Michl. J.
TITUSVILLE—Hughes, D. D. & Son
UNION CITY—Hatch Hardware Co.
WASHINGTON—Hays, G. W.
WEST CHESTER—Apple Plumbing & Heating Co.
James Bros.
Palmer, George J.
WILKES-BARRE—Allen & Fell
Becker, P. & Son
WILKINSBURG—Britner, E. M.
YORK—Kidds, Alex., Son

## RHODE ISLAND.

CENTRAL FALLS—Plews, R. Mfg. Co.
NEWPORT—Covell, W. K.
PAWTUCKET—Carpenter, E. P. Tin & Sheet Metal Co.
Reetz, Robert C.
PROVIDENCE—Brunnckow, C. G. Co., 223 Globe
Burgess, James, 254 Prairie av
CLASON ARCHITECTURAL METAL Works (And Copper), 428 Kinsley av (See adv. index, end of book)
Enterprise Cornice & Skylight Works, 27 Bassett
Harris, Clayton Co.
Hitz, Chas., 9 Calla
Lamoureux, F. & Co., 39 Friendship
Providence Arch'l Metal Works, 237 Dyer
Providence Cornice Co., 311 Canal
Rhode Island Cornice Co., 76 Point
Strauss Co., 303 Eddy
WOONSOCKET—French, O. P. & Son

## SOUTH CAROLINA.

AIKEN—Hyer, W. C.
CHARLESTON—Arnot, A. M.
Charleston Galvanized Iron Cornice & Steel Ceiling Works
Masters, R. M.
Shepherd Supply Co.
COLUMBIA—Lorick, Lee A. & Bro.
GREENVILLE—Barr Hdw. Co.
Cook, J. A.
ROCK HILL—Westerlund, J. W.
SPARTANBURG—Pickens, R. O.
UNION—Murrah, T. A.

## SOUTH DAKOTA.

RAPID CITY—Sweeney, Tom Hardware Co.
SIOUX FALLS—Stallman, John
YANKTON—Yankton Sheet & Metal Works

## TENNESSEE.

BRISTOL—Leslie Tin & Sheet Metal Works
Sweet & Connor
CHATTANOOGA — Chattanooga Roofing & Foundry Co.
Goodlake, C. W., 813 Broad
Mountain City Stove & Mfg. Co.
McMahon, James
Snow, T. A. Co.
Snow, Tom, Heating & Roofing Co.
FAYETTEVILLE—Blakemore, J. A.
Robertson & Goodrich
HARRIMAN—Edington Bros.
JACKSON—Anderson, G. C. & Co.
KNOXVILLE—Cruze, J.
Mundy & Gredig
Williams, G. R.
MEMPHIS—Burdick, A. W. & Co.
Chickasaw Iron Works
Cubbins, F. D.
Dush, Louis
Eichberg & Lang Mfg. Co.
Fritz, Edw. H.
Nohsey & Schwab
Verdel, E. F. & Co.
Wessendorf, Charles Co.
NASHVILLE—Cammerer, H. & Son
Howell, Geo.
Kadel & Shelton
Murray, E. T. & Co.
Phillips & Buttorff Mfg. Co.
Zimmer, A. & Son

## TEXAS.

AUSTIN—Buass, J. O., 818 Congress av
CORSICANA—Johnson & Wood Hardware Co.
Tatum, W. M. Hardware Co.

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DALLAS—Burke, W. D.
Hinckley, D. G.
Huey & Philip Hardware Co.
Payne, F. T.
DENISON—Waltz, Chris.
EL PASO—Momsen, Gus Co.
ENNIS—Blakey, J. & Co.
Craig, E. E. & Co.
FORT WORTH—Attwell Cornice Co.
GAINESVILLE—Bosley, L. W.
GALVESTON—Breene, Martin
Fredericks, W. G., 2309 A
Hoffman, W. A.
Miller, W. H., 2627 O½
Werner, Geo. P., 1628 Winnie
HILLSBORO—Smith & Tomlinson Co.
HOUSTON—Atlas Tin & Sheet Iron Wks.
Berger, Albert
Eisemann, G. Charles
Fothergill, Thos. W.
Himstedt Bros.
Holt, Edwin E.
Murray, Albert A.
Nicco & Eisemann Co.
Pattillo, Patterson C.
Porter & Glass
Rogers, W. H. Co.
Schlom, Meyer J.
Shannon, Grant S.
Vogler, Chas. H. & Co.
MARSHALL—Logan & Whaley
SAN ANTONIO—Jewett Cornice & Roofing Co.
San Antonio Sheet Metal Works
Vodrie Sheet & Metal Works
Walsh, T. P.
SHERMAN—Roberts, Sanford & Taylor Co.
Walsh Hdw. Co.
TERRELL—Muckleroy Hdw. Co.
TYLER—Daglish Merc. & Mfg. Co.
WACO—Strauss, Ed.

## UTAH.

EPHRAIM—Jensen, F. Y.
OGDEN—Crosbie, R. L.
Newman & Stewart
PROVO—Blumenthal, H. G. Co.
SALT LAKE CITY—Fowler, J. P.
Mitchell, H.
Salt Lake Hardware Co.

## VERMONT.

BENNINGTON—Vail, F. E.
BURLINGTON—Hathorne, A. C. Co.
LYNDONVILLE—Eaton, J. C. & Co.
POULTNEY—Horton, M. J. & Son
RANDOLPH—Lamson, J. H. & Sons

## VIRGINIA.

CHARLOTTESVILLE—Thomas, R. L. & Co.
DANVILLE—Hodnett, Vass & Watson Co.
Piedmont Hdw. Co.
HAMILTON—Myers, Nathan
HAMPTON—Copeland, J. F.
Williamson, C. M.
HARRISONBURG—Saum, Jno. R.
Saum, M. L.
LYNCHBURG—Diuguid, Noel Metalware Co.
Dornin, T. B., Adams Co.
Doherty & Casey
MANASSAS—Davis, A. B.
NORFOLK—Bohn Roofing & Cornice Co.
Howard, J. T., Co.
RICHMOND—Burton, Reuben
STAUNTON—Tanner, Charles & Co.
WARRENTON—Houchens, T. M.

## WASHINGTON.

ELLENSBURG—Lawrence, A.
NORTH YAKIMA—Sawbridge, Jno.
Yakima Hardware Co.
OLYMPIA—Olympia Hardware Co.
SEATTLE—Alexander, David
Clark, T. F. Co.
Finlay & Robb
Noon, T. A.
Popple & Knowles Co.
Seattle Cornice Works, 1730 1st av, S
Western Sheet Metal Wks., 1751 1st av, S
SPOKANE—Brandt Bros., 207 Division
Brown Bros., 2d & Washington
Brown, Wm., 14 Post
Schrimpf, Chas. G., 25 Monroe
Woodward & Stein
Young, E. H., 826 2d av
TACOMA—Cizek, A. F., Sheet Metal Works Co., 739 So C
Miller, Edw. Cornice & Roofing Co., 1709
WATERVILLE—Carpenter & Murdock So. D

## WEST VIRGINIA.

BERKLEY SPRINGS—Ambrose, C. P. & Bro.
BLUEFIELD—Hefner, O. V.
Whitlow, M. G. Hardware Co.
CHARLESTON—Brawley, D. A.
Charleston Hardware Co.
Goshorn Hardware Co.
Loewenstein & Sons
Shawver, W. F. & Co.
CHARLESTOWN—Easterday & Co.
FAIRMONT—Amos, G. E. & Co.
Morris, J. S. & Son
HUNTINGTON—Hagan & Co.
Wilcoxson, C. F.
MARTINSBURG—Cushwa, C. G. & Bro.
Fisher, J. W. R.
MORGANTOWN—Bailey, W. H. Hardware Co.
Barbe & Davis
Morgantown Hardware Co.
PARKERSBURG—Bosbury Bros.
WHEELING—Arkle, J. M.
Bayha, D. H.
Caldabaugh Bros.

## WISCONSIN.

APPLETON—Schlafer Hdw. Co.
Tesch, Wm.
ASHLAND—French, R. W. & Son
Garnich, Emil, & Sons
BARABOO—Gaskell, F. N.
Lee, Radke, Hardware Co.
BELOIT—Murdock-Dunwiddie Co.
Watson & Bittel
EAU CLAIRE—Eau Claire Cornice & Htg. Co.
Hobbs, W. H., Supply Co.
EVANSVILLE—Baker Manufacturing Co.
FOND DU LAC—Cheney, S. H.
GREEN BAY—Danz, H.
Green Bay Cornice & Corrugating Co.
Harris, Theo. E.
HARTFORD—Esser & Schmidt
Kissel, L. & Sons
HUDSON—Foss-Armstrong Hardware Co.
JANESVILLE—McNamara, Henry L.
Sheldon Hardware Co.
KAUKAUNA—Butler & Dietzler Hardware Co
Haas & Hohman ing Co.
KENOSHA—Dewey, C. A.
English, Jno. J.
Jansen, T. E.
Schulz, H. C.
Skidd, Chas.
LA CROSSE—Badger Steel Roofing & Corrugating Co.
Dittman, Fred. Hardware Co.
Gateway City Steel Tank & Roofing Co.
La Crosse Cornice & Ceiling Co.
La Crosse Steel Roofing & Corrugating Co.
Tausche, V., Hardware Co.
MADISON—Trachte Bros.
Wolf, Kubley & Hirsig
MANITOWOC—Rathsack, Wm. & Sons
Teitjen, Emil
MARINETTE—Simcox, H. B.
Westlund, August
MENOMONIE—Globe Iron Works Co.
MILWAUKEE—Biersach & Niedermeyer Co., 216 5th
Braun-Millen Co., 534 Clinton
Consolidated Sheet Metal Works, 661 Hubbard
Cox, Jos. L., 138 6th
Feix & Goethel, 818 Winnebago
Green, D. D., 215 Sixth
Hoffmann & Baur, 279 Lake
Jeske, R. & Bro., 119 Reservoir av
Klubertanz Bros., 2325 Fond du Lac av
**MILWAUKEE CORRUGATING CO.** (Also Copper). (See adv. index, end of book)
Romberger, Joseph, 2115 Cherry
Schaetzke, H. E. & Co., 785 7th
Tonnsen, E. B., 51 3d
Toepfer, W. & Son, 76 Menominee
Wisconsin Sheet Metal Works, 345 33d av
MONROE—Kundert, C. Hardware Co.
NEENAH—Krueger, Wm. & Co.
Stroebel, J. F.
OSHKOSH—Krippene Hardware Co.
Leach, Frank Hardware Co.
Tank & Tieman
Terwedo Mfg. Co.
PORTAGE—Schulze Hardware Co.
RACINE—Dixon, John & Son
REEDSBURG—Siefert, Aug., Hardware Co.
RICHLAND— CENTER—Lamberson, Ward
Strang, G. H. Hardware Co.
SHEBOYGAN—Geele, F. Hardware Co.
SUPERIOR—Arnold & Schimmel
Bingham Hdw. Co.
Carlson Bros.
Holmes, A. E. & Bro. Co.
Roberts, G. W.
WATERTOWN—Kusel, D. & F. Co.
Pritzlaff, W. G. & Co.
WASHBURN—Ungrodt, B.

## WYOMING.

BUFFALO—Astell, Geo. T.

## Corrugated Elbows

(See Elbows, Conductor Pipe; also Stove Pipe & Elbow Manufacturers)

## Corrugated Iron & Steel

(See Iron & Steel, Corrugated Manufacturers)

## Corundum Mfrs.

(See Emery & Corundum Manufacturers)

## 2406— Cots (Army, Etc.)

Gold Medal Camp Furniture Mfg. Co., Racine, Wis.
Himebaugh Bros., Jamestown, N. Y.
Sun Mfg. Co. (Brown Duck, Wood & Steel Frame), Columbus, O.

## 2407— Cots (Folding)

Foster Bros. Mfg. Co. (Iron & Wood Frame), Utica, N. Y.
Haggard & Marcusson Co. ("Tiger" Woven Wire), 1071 W 37th, Chicago, Ill.
Sun Mfg. Co., Columbus, O.

## 2408—Cotters (Cellar Box)

Jenckes, E. Mfg. Co., Worcester, Mass.
Smith, F. P. & Co. ("Saco"), Sharon Hill, Pa.

## 2409—Cotters & Keys (Spring)

(See also Keys, Flat Spring & Riveted)
Blake & Johnson Co., Waterbury, Conn.
Brooks, M. S. & Sons (Brass or Steel Cotters & Flat Spring or Riveted Keys), Chester, Conn.
Cincinnati Screw & Tap Co., Twightwee, O.
Cobb & Drew, Plymouth, Mass.
Eastern Railway Supply Co., Baltimore, Md.
Hindley Mfg. Co. ("Columbia", Steel, Brass & Copper Cotters & Flat Steel Spring & Flat Riveted Keys), Valley Falls, R. I.
Hollinger Fence Co. (Steel), Greenville, O.
Jenckes, E. Mfg. Co. (Iron & Brass Cotters & Flat Spring Keys), Worcester, Mass.
McWhorter Mfg. Co. ("McWhorter," Pointed), Riverton, N. J.
National Screw & Tack Co. (Iron & Brass), Cleveland, O.
Pickering, R. S. (Brass & Steel Cotters & Steel Flat Spring & Riveted Keys), Sharon Hill, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Smith, F. P. & Co. ("Saco" Steel, Brass & Copper Cotters & Flat Spring & Flat Riveted Keys), Sharon Hills, Pa.
**WHITMAN & BARNES MFG. CO.** (Brass, Steel & Copper), Akron, O. (See adv. index & branch offices, end of book)
Wire Goods Co. (Iron & Brass), Worcester, Mass.

## 2410— Cotton (Absorbent)

Bauer & Black (Inc.), Chicago, Ill.
Buckman-Wilson Co., 97 Warren, New York
Johnson & Johnson, New Brunswick, N. J.

## 2411—Cotton (Calking & Gun)

Bowden Bros., Cedar Grove, N. J.
California Cap Co., San Francisco, Cal.
Estes Mills (Inc.), Fall River, Mass.

## 2412— Cotton Compresses

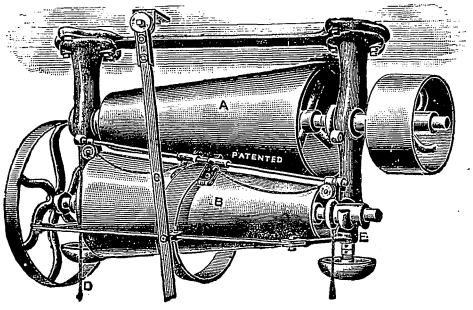
Dickson Car Wheel Co., Houston, Tex.
Pusey & Jones Co., Wilmington, Del.
Reading Iron Co., Reading, Pa.
Webb Press Co., Minden, La.

## 2413—Cotton (Duck & Canvas)

Anchor Duck Mills (Wide Duck), Rome, Ga.
Ashland Mfg. Co., Hillsdale, Md.
Baker, Carver & Morrell, 75 Front, New York
Boston Duck Co., Bondsville, Mass.
Boyle, John & Co., 112 Duane, New York
Brighton Mills (Sail, Tire & Hose Duck, Mechanical Fabrics, etc.), Passaic, N. J.
**CARPENTER, GEO. B. & CO., 202 S.** Water, Chicago, Ill. (See adv. index, end of book)
Consolidated Cotton Duck Co. (Duck for Belting, Hose, Sails, etc.; also Awning Stripes & Canvas for Wagon Covers, Tarpaulins, etc.), Continental Trust bldg, Baltimore, Md.

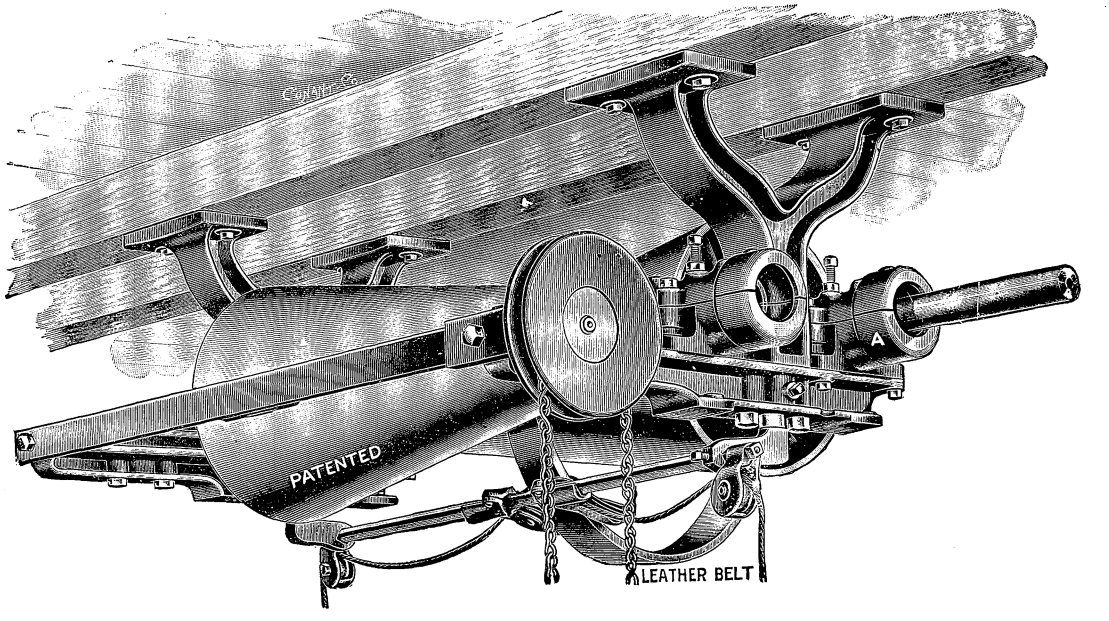
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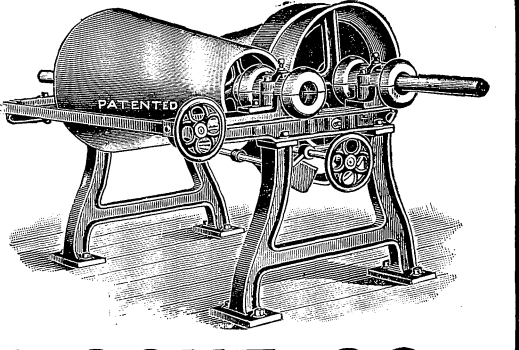



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REGISTER

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Dallas Cotton Mills, Dallas, Tex.
Dickey, W. J. & Sons, Oella, Md.
Interprise Cotton Mills (Narrow Duck), Interprise, Ala.
Falls Co. (Ticks, Awnings, Ducks, etc.), Norwich, Conn.
Fitchburg Duck Mills (Belting & Hose Duck), Fitchburg, Mass
Gary, J. S. & Sons (Awning Strips, etc.), Alberton, Md.
Hoffman-Corr Mfg. Co., 413 Market, Phila, Pa.
Hogansville Mfg. Co., Hogansville, Ga.
Hooper, Wm. E. & Sons Co., Baltimore, Md.
Lane, J. H. & Co., 110 Worth, New York
Lawrence Duck Co., Lawrence, Mass.
Lowell Weaving Co. (Fine Sail Cloth Ducks), Lowell, Mass.
Montgomery Cotton Mills, Montgomery, Ala.
Passaic Cotton Mills, Passaic, N. J.
Princeton Mfg. Co., Athens, Ga.
Savage Mfg. Co., Savage, Md.
Shetucket Co., Norwich, Conn.
Smith, D. B. & Son, Pine Meadow, Conn.
Thorndike Co. (Awning Stripes, etc.), Thorndike, Mass
Turner, J. Spencer Co. (Rep. U. S. Cotton Duck Corpn.), 86 Worth, New York
Upson-Walton Co. (Wholesale), Cleveland, O.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Warren Mfg. Co., Warren, Md.
Wellington, Sears & Co. (Ducks for Belting Hose, Sails, Harvesters, etc.; also Awning Stripes, Canvas for Wagon Tops, etc., & Bunting), 93 Franklin, Boston, Mass., & 66 Worth, New York
West Point Mfg. Co., West Point, Ga.
Williams Duck Mills, Moodus, Conn.

## Cotton Gins

(See Cotton Ginning Machinery)

## Cotton Softeners

(See Textile Machinery, Supplies, Etc.)

## 2413a— Cotton (Soluble)

**INTERNATIONAL SMOKELESS POWder & Chemical Co., 140 Cedar, New York.**

## Cotton (Spun Calking)

(See Oakum)

## 2413b—Counter Balance Stairs (New, Only One in World)

**HANKE IRON & WIRE WORKS,** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)

## 2414— Counterbores

American Die & Tool Co., Reading, Pa.
**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M. (For Round Head Cap Screws, etc.), Tolland, Conn.
**DETROIT TWIST DRILL CO., Detroit,** Mich. (See adv. index, end of book)
Kendrick & Davis Co., Lebanon, N. H.
**MORSE TWIST DRILL & MACHINE Co.** (Solid, Adjustable & Interchangeable Blades & Guides), New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Detroit, Mich.** (See adv. index, end of book)
National Twist Drill & Tool Co. ("National," Solid), Detroit, Mich
Slocomb, J. T. Co., Providence, R. I.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Waltham Watch Tool Co., Springfield, Mass.
Wells, F. E. & Son Co., Greenfield, Mass.

## 2415— Counters (Can)

**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2416—Counters (Combination, Counter & Watch)

**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2417— Counters for Looms

**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2418—Counters for Paper Machines

**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2419—Counters for Reciprocating Motion (Square Case)

**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2420— Counters (Pole)

Benton, Mfg. Co., 5 Bethune, New York
International Register Co., 625 W Jackson boul, Chicago, Ill.
New York Standard Watch Co., Jersey City, N. J.

## 2421—Counters (Recording)

**SCHAEFFER & BUDENBERG MFG. Co.** ("Columbia"), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2422—Counters (Revolution)

(See also Indicators, Speed)

**CROSBY STEAM GAGE & VALVE Co.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2423—Counters (Short Stroke, for Pumps)

**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 2423a— Counters (Steel)

**FIRE-PROOF FURNITURE & CONstruction Co.** (For Banks & Offices), Miamisburg, O. (See adv. index, end of book)

## 2424— Countershafts

Almond, T. R. Mfg. Co. ("Almond" Right Angle Quarter Turn), Ashburnham, Mass.
Baird Machine Co., Oakville, Conn.
Bardons & Oliver (Double Friction), Cleveland, Ohio
Bates Machine Co., Joliet, Ill.
Born, J. C. & Bro., Belleville, Ill.
Brown & Sharpe Mfg. Co., Providence, R. I.
Buffalo Forge Co., Buffalo, N. Y.
Builders' Iron Foundry, Providence, R. I.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Cresson, Geo. V. Co., Allegheny av, w of 17th, Phila., Pa.
De Tamble Motor Co. (Variable Speed), Anderson, Ind.
Diamond Machine Co., Providence, R. I.
Dodge Mfg. Co., Mishawaka, Ind.
Elgin Tool Works ("Elgin" for Precision Tools), Elgin, Ill.
Frick Co., Waynesboro, Pa.
Fulton Machine & Forging Co. (Self-Oiling), Canal Fulton, O.
Garvin Machine Co., 137 Varick, New York
Goodell-Pratt Co., Greenfield, Mass.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Ideal Machine Works ("Ideal," Operated by Gravity), 255 39th, Brooklyn, N. Y.
Lane Mfg. Co., Montpelier, Vt.
Le Blond, R. K. Machine Tool Co., Cincinnati, O.
Lodge & Shipley Machine Tool Co., Cincinnati, Ohio
Manning, Maxwell & Moore, 85 Liberty, New York
Moore & White Co., 15th & Lehigh av, Phila.,
Moseley Lathe Co. ("Moseley"), Elgin, Ill. Pa.
Mossberg Wrench Co. ("Sim-Pull"), Central Falls, R. I.
National Machine Tool Co. (Variable Speed), Cincinnati, O.
Norton Grinding Co., Worcester, Mass.
Oesterlein Machine Co. (Friction Clutch), 2850 Spring Grove av, Cincinnati, O.
Phoenix Mfg. Co., Hartford, Conn.
Quint, A. D., Hartford, Conn.
Reeves Pulley Co., Columbus, Ind.
Rotary File & Machine Co. ("S. & S."), 200 Diamond, Brooklyn, N. Y.
Safety Emery Wheel Co., Springfield, Mass.
Smith Countershaft Co. (One Belt Reversing for Machine Tools), 141 Milk, Boston, Mass.
Stearns, E. C. & Co. ("Clarks," "Wheelers"), Syracuse, N. Y.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
**STURTEVANT, B. F. CO. (For Fans),** Hyde Park, Mass.
Waltham Watch Tool Co., Springfield, Mass.
Warner & Swasey Co. (Friction), 5809 Carnegie, S. E., Cleveland, O.
**WELLS BROS. CO. ("Little Giant,"** Friction Clutch, Greenfield, Mass. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.
**WILMARTH & MORMAN CO. ("Wilmarth"** Friction), Grand Rapids, Mich. (See adv. index, end of book)
Wooster Machine Co., Wooster, O.
Young Machine & Tool Co., 211 Center, New York, & Worcester, Mass.

## 2425—Countershafts (Variable Speed)

De Tamble Motors Co., Anderson, Ind.
**EVANS FRICTION CONE CO., Newton** Center, Mass. (See adv. index, end of book)
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
National Machine Tool Co., Cincinnati, O.
Rotary File & Machine Co. ("S. & S."), 200 Diamond, Brooklyn, N. Y.

## 2426— Countersinks

American Die & Tool Co., Reading, Pa.
Atha Tool Co., Newark, N. J.
Billings & Spencer (Drop Forged), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros. (Flat, Rose & Snail), Millbury, Mass.
Buck, Chas., Millbury, Mass.
**BUFFUM TOOL CO. (Rose Head),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Butterfield & Co., Derby Line, Vt.
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
Cincinnati Tool Co. ("Hargrave's Adjustable"), Cincinnati, O.
**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO. (Bit Stock),** Detroit, Mich. (See adv. index, end of book)
Deuse, J. S. (Wood & Iron), Chester, Conn.
Goodell-Pratt Co., Greenfield, Mass.
Humphreysville Mfg. Co., Seymour, Conn.
Hunter, J. B. & Co. ("Henry," for Wood & Metal), 60 Summer, Boston, Mass.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Kendrick & Davis Co., Lebanon, N. H.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mayhew, H. H. Co., Shelburne Falls, Mass.
**MORSE TWIST DRILL & MACHINE Co.** (Bit Stock & Combined Drills & Countersinks), New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National" Bit Stock), Detroit, Mich.
Polk, A. J. & Son (For Drilling Machines, etc.), Millersburg, Pa.
Robinson, M. W. Co. ("Smith's" Patent Adjustable for Wood Workers), 88 White, New York
Smith, Otis A. (For Wood Workers), Rockfall, Conn.
Snell Mfg. Co., Fiskdale, Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Stanley Rule & Level Co. ("Wheeler" Wood), New Britain, Conn.
**STARRETT, L. S., CO. (Double Lip, etc.),** Athol, Mass. (See adv. index & branch offices, end of book)
Swan, Jas. Co., Seymour, Conn.
Syracuse Twist Drill Co., Syracuse, N. Y.
Tuck Mfg. Co. (Rose, Flat), Brockton, Mass.
Vaughn & Bushnell Mfg. Co., 2130 W Carroll av, Chicago, Ill.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

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## 2427—Countersinks & Center Drills (Combined)

**CLEVELAND TWIST DRILL CO.**, Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO.**, Detroit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co., Detroit, Mich.
Slocomb, J. T. Co., Providence, R. I.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG CO.**, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2428— Couplers (Car)

American Steel Foundries ("R. E. Janney", "Simplex"), Commercial Nat'l Bank bldg., Chicago, Ill., & 30 Church, New York
Automatic Car Coupler Co. ("Norwood-Bonney"), Los Angeles, Cal.
Buckeye Steel Castings Co. ("Buckeye" & "Major"), Columbus, O.
Electric Traction Supply Co. ("Bonney"), St. Louis, Mo.
Gould Coupler Co. ("Gould") 345 5th av, New York
James Foundry Co., Clyde, Ohio
**JOHNS, H. W.-MANVILLE CO.** ("J-M"), 100 William, New York. (See adv. index & branch offices, end of book)
McConway & Torley Co. ("Pitt," "Kelso" & "Janney," "Janney X" Made from Open Hearth Cast Steel), 48th & A. V. Ry., Pittsburg, Pa.
Michigan Malleable Iron Co., Detroit, Mich.
Monarch Steel Casting Co. ("Monarch" Solid "Detroit" Couplers & Coupler Attachments), Detroit, Mich.
National Car Coupler Co. ("Hinson," "National" Freight, Passenger & Industrial Cars), Monadnock bldg., Chicago, Ill.
National Malleable Castings Co. ("Tower," "Climax," "Sharon," "Latrobe," "Munton," "Melrose," "Chicago"), Cleveland, O.
Ohio Brass Co. ("Tomlinson"), Mansfield, O.
Peteler Car Co. (For Industrial or Standard Gauge), Minneapolis, Minn.
Scullin-Gallagher Iron & Steel Co. (Open Hearth Steel), St. Louis, Mo.
Simplex Railway Appliance Co. ("Simplex"), Commercial Bank bldg, Chicago, Ill.
Standard Coupler Co. ("Latrobe," "Chicago," "Melrose"), 2 Rector, New York. Works, Bridgeport, Conn.
Sterling Steel Foundry Co. ("Sterling Automatic"), Pittsburg, Pa.
Van Dorn, W. T. C. (Automatic), 2325 S Paulina, Chicago, Ill.
Wallace Supply Co. ("S. & W."), Chicago, Ill.
Wilmington Malleable Iron Co., Wilmington, Del.

## 2429— Couplers (Carriage)

Bradley, C. C. & Son ("Bradley," Hold Fast), Syracuse, N. Y.

## 2430—Couplers (Gravity Car)

Gravity Coupler Co., East Peoria, Ill.

## 2431— Couplers (Railroad Emergency)

Railway Appliances Co. ("Gilman Brown"), Old Colony bldg, Chicago, Ill.

## 2432—Couplers (Shaft & Pole)

Bradley, C. C. & Son (Ball Bearing), Syracuse, N. Y.
Eccles Richmond Co. (Ball Bearing), Auburn, N. Y.
Evans, Coppins & Starks Co. (Shaft) Princeton, Ill.
Fernald Mfg. Co., North East, Pa.
Mulholand Co., Dunkirk, N. Y.
Queen City Forging Co., Cincinnati, O.

## 2433— Couplers (Steam & Air Hose)

Consolidated Car Heating Co. ("Sewell"), 42 B'way, New York
Forsyth Automatic Air & Steam Coupler Co. ("Forsyth" Automatic for Air or Steam), The Rookery, Chicago, Ill.
Lightning Hose Coupling Co., Boston, Mass.
Westinghouse Automatic Air & Steam Coupler Co., St. Louis, Mo.

## Couplings (Air Hose)

(See Pneumatic Hose Couplings; also Couplers, Steam Hose)

## 2434— Couplings (Angle)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)

## 2435—Couplings (Bell Cord)

(See also Bell Cords & Couplers)

Creamer, W. G., & Co., 96 John, New York
Handlan-Buck Mfg. Co. ("The Shelby"), 212 N 3d, St. Louis. Mo.
Smith & Wallace Co. (Register Cord for Street Railways), Woburn, Mass.
Sterling-Meaker Co. ("Triton"), Newark, N. J.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

## 2436— Couplings (Belt)

Greene, Tweed & Co. ("Moran's" Round), 109 Duane, New York

## 2437— Couplings (Boiler & Water Back)

**BLAKE SPECIALTY CO., 2412 3d av,** Rock Island, Ill. (See adv. index, end of book)
Burlington Brass Works, Burlington, Wis.
Burr Mfg. & Supply Co., 102 Lexington, Brooklyn, N. Y.
Campbell, J. B. Brass Works, Erie, Pa.
Central Brass Mfg. Co. ("Cleveland"), Cleve-
Chambers & Co., Newark, N. J. land, O.
Clum & Atkinson, Rochester, N. Y.
Elkhart Brass Mfg. Co. (Brass), Elkhart, Ind.
Exeter Brass Works, Exeter, N. H.
Fries & Co., Buffalo, N. Y.
Glauber Brass Mfg. Co., Cleveland, Ohio
Grabler Mfg. Co. (With Union), Cleveland, O.
Haines, Jones & Cadbury Co., Phila., Pa.
Hamilton, Jno. Brass Works (Est. of "Kitson"), Bridgeport, Conn.
Hays Mfg. Co., Erie, Pa.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Kelly & Jones Co. (Malleable Iron, etc.), Pittsburg, Pa.
Kitson Co., 1224 Callowhill, Philadelphia, Pa.
Lawler Regulator Co. ("Lawler's" Protector), 473 B'way, New York
McDonald, A. Y. Mfg. Co., Dubuque, Iowa
Mueller, H. Mfg. Co., Decatur, Ill.
Murdock Mfg. & Supply Co., Cincinnati, Ohio
National Tube Co. ("Kewanee Iron & Brass"), Pittsburg, Pa.
Peck Bros. & Co., New Haven, Conn.
Sanitary Co. ("Paragon"), Cleveland, Ohio
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Sence Mfg. Co., 279 Park, Milwaukee, Wis.
Stebbins, E. Mfg. Co., Springfield, Mass.
Trenton Brass & Machine Co. ("Trenton", "Paragon"), Trenton, N. J.
United Brass Mfg. Co. ("United"), Cleveland, Ohio
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.

## 2438—Couplings (Car Heater)

National Tube Co., Pittsburg, Pa.

## 2439—Couplings (Circulating Boiler)

National Tube Co., Pittsburg, Pa.

## 2440— Couplings (Clamp)

American Tool & Machine Co., Boston, Mass.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Cresson, Geo. V. Co. (Internal, etc.), 18th & Allegheny av, Phila., Pa.
Dodge Mfg. Co. ("The Grim Death"), Mishawaka, Ind.
Nordyke & Marmon Co., Indianapolis, Ind.
Valley Iron Works, Williamsport, Pa.

## 2441— Couplings (Closet)

Hydraulic Specialty Co. ("Universal"), 427 Walnut, Philadelphia, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Park & McKay Co., Detroit, Mich.
Republic Rubber Co., Youngstown, O.
Salem Brass & Iron Mfg. Co. (Rubber), Salem, N. J.

## 2442— Couplings (Clutch)

**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buhl Malleable Co., Detroit, Mich.
**CHAIN BELT CO. (Spiral, Square,** etc.), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., Allegheny av, w of 17th, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Erie Clutch & Pulley Co., Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Frick Co., Waynesboro, Pa.
Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., St. Louis, Mo.
Nordyke & Marmon Co., Indianapolis, Ind.
Platt Iron Works Co., Dayton, O.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 2443—Couplings (Coke Oven)

Kelly & Jones Co., Pittsburg, Pa.

## 2444—Couplings (Compression)

Bond Foundry & Machine Co. ("Spiro"), Manheim, Pa.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO. ("C. B. Co."),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Davis, W. P. Machine Co. (For Line Shafting), Rochester, N. Y.
Dodge Mfg. Co., Mishawaka, Ind.
Erie Clutch & Pulley Co., Erie, Pa.
Estes Coupling Works ("Estes" Shaft), Cuba, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Garland, M. Co., Bay City, Mich.
Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
Imperial Brass Mfg. Co. ("Imperial" Brass), 444 S Jefferson, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co. ("Collins"), Pittsburg, Pa.
**MINNEAPOLIS STEEL & MACHINERY Co.,** Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nicholson, W. H. & Co. (Shaft), Wilkes-Barre, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Plamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill.
Poole Engineering & Machine Co., Baltimore, Md.
Shaw Coupling Co., Syracuse, N. Y.
Stuart, R. J. & T. H. (Wedge), New Hamburg, N. Y.
Thomas-Fordyce Mfg. Co., Little Rock, Ark.
Valley Iron Works, Williamsport, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Woods's, T. B. Sons Co., Chambersburg, Pa.

## 2445—Couplings (Conduit)

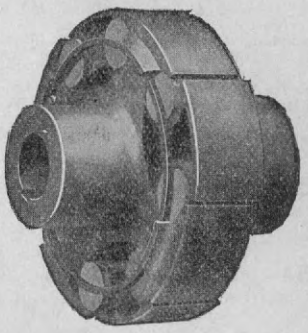
American Circular Loom Co., Chelsea, Mass.
Bonnell, W. A. Co., 132 Church, New York
Burns, Jas. F., 47 N Hutchinson, Phila., Pa.
Chase-Shawmut Co. ("Chase" Nipples & Flexible Conduit Couplings), Newburyport, Mass.
Enameled Metals Co., Etna, Pa.
Fairmount Elec. & Mfg. Co. ("Bendhicks", 2203 Pearl, Phila., Pa.
Grabler Mfg. Co. (Fixture Studs), Cleveland, O.
Gwilliam Supply Co., 1339 Ridge av, Phila., Pa.
National Metal Molding Co., Pittsburg, Pa.
Safety Armorite Conduit Co., Pittsburg, Pa.
Sprague Electric Co., 527 W 34th, New York
Thomas & Betts Co., 299 B'way, New York
Wallace Supply Co. ("Bendon" Steel Spring Lath), 120 S Jefferson, Chicago, Ill.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

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# Nuttall
# Flexible Cushion Coupling

Simple, strong, easy to put in place, and no delicate parts to get out of order or cause trouble.

R. D. Nuttall Company—Pittsburg, Pa.




## Couplings (Conduit Rod)

(See Rods, Conduit Wiring & Cleaning)

## 2446– Couplings (Cut-Off)

**ALLIS-CHALMERS CO. ("A. C." Friction** Clutch), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Carruthers-Fithian Clutch Co., Grove City, Pa.
Cowanesque Valley Iron Works ("Riepell's" Friction Clutch), Cowanesque, Pa.
Cresson, Geo. V. Co., Allegheny av, w of 17th,
Dodge Mfg. Co., Mishawaka, Ind. Phila., Pa.
Eastern Machinery Co., New Haven, Conn.
Erie Clutch & Pulley Co., Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falls Clutch & Mach'y Co., Cuyahoga Falls, O.
Friction Pulley & Machine Wks., Hudson Falls,
Hess-Snyder Co., Massillon, O. N. Y.
Hilliard Clutch & Mach'y Co., Elmira, N. Y.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones, W. A. Foundry & Machine Co., 1401 North av, Chicago, Ill.
**Jones & Laughlin Steel Co., Pittsburg, Pa.**
Minster Machine Co., Minster, O.
Moore & White Co., Phila., Pa.
Platt Iron Works Co., Dayton, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 2447–Couplings (Drill Rod)

National Tube Co., Pittsburg, Pa.

## 2448–Couplings (Expansion)

Elkhart Brass Mfg. Co. (Expansion Ring), Elkhart, Ind.
Howell, F. R. Brass Works, 122 N Franklin. Phila., Pa.
Ohio Pump & Brass Co. (Expansion Rod), Columbus, O.

## 2449– Couplings (Flange)

American Tool & Machine Co., Boston, Mass.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO. (Flanged Face),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Cumberland Steel Co., Cumberland, Md.
Dodge Mfg. Co., Mishawaka, Ind
Eastwood, Benj. Co., Paterson, N. J.
Erie Clutch & Pulley Co., Erie, Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Huntsville Foundry & Machine Co., Huntsville,
Jefferson Union Co., Lexington, Mass. Ala.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
**MINNEAPOLIS STEEL & MACHINEry Co.,** Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nicholson, W. H. & Co. (Compression), Wilkes-Barre, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Pittsburg Steel Shafting Co., Park bldg, Pittsburg, Pa.; Works: Rankin, Pa.
Plamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill.
Poole Engineering & Machine Co., Baltimore,
Valley Iron Works, Williamsport, Pa. Md.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 2450–Couplings (Flexible)

Bond, Chas. Co. ("Grundy" Insulated), 520 Arch, Phila., Pa.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Cresson, Geo. V. Co., Allegheny av, w of 17th,
Dodge Mfg. Co., Mishawaka, Ind. Phila., Pa.
**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
**HOOVER-OWENS-RENTSCHLER CO.** ("Hamilton-Holzwarth"), Hamilton, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 2451– Couplings (Flexible Cushion)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO. ("Nuttall"), Fayette** & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

## 2452–Couplings (Friction Clutch)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cowanesque Valley Iron Works ("Riepell's" Cut-off), Cowanesque, Pa.
Cresson, Geo. V. Co., Allegheny av W of 17th,
Dodge Mfg. Co., Mishawaka, Ind. Phila., Pa.
Eastern Machinery Co., New Haven, Conn.
Erie Clutch & Pulley Co., Erie, Pa.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Great Western Mfg. Co., Leavenworth, Kan.
Hill Clutch Co., Cleveland, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., St. Louis, Mo.


# FRICTION CLUTCH COUPLINGS
# FRICTION CLUTCH PULLEYS

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**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Oesterlein Machine Co., Cincinnati, O.
Plamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill.
Platt Iron Works Co., Dayton, O.
Poole Engineering & Machine Co., Baltimore, Md.
Stephens-Adamson Mfg. Co., Aurora, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Woods's, T. B. Sons Co., Chambersburg, Pa.

## 2453—Couplings (Gravity, Locomotive Tender)

Adreon Mfg. Co. ("American"), St. Louis, Mo.

## 2454— Couplings (Hose)

(See also Couplers, Steam & Air Hose; also Pneumatic Hose Couplings)

Acme Brass Works, 147 Baxter, New York
Allen Fire Department Supply Co., Providence, R. I.
Allen, W. D. Mfg. Co. (Plain & Automatic), 151 Lake, Chicago, Ill.
American Foundry & Mfg. Co., St. Louis, Mo.
B. & B. Coupling Co., People's Gas bldg, Chicago, Ill.
Bastian, C. L. Mfg. Co. (Fire Hose), 420 Wells, Chicago, Ill.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Boston Coupling Co. (Fire Hose), 156 Pearl, Boston, Mass.
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Brown Automatic Hose Coupling Co. (For Air, Oil, Steam & Water Hose), Cleveland, O.
Callahan, C. Co., Boston, Mass.
Cassady-Fairbank Mfg. Co. ("Samson"), 6106 La Salle, Chicago, Ill.
Central Brass Mfg. Co. ("Cleveland"), Cleveland, O.
Chambers & Co., Newark, N. J.
**CHICAGO CAR HEATING CO., Railway Exchange bldg., Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)**
Clark, W. J. Co. ("Quick-as-Wink"), Salem, O.
Clay, Jno. H. ("Clay-Jones" Fire Hose), 1320 Ridge av., Phila., Pa.
Columbus Pneumatic Tool Co. (Air Hose), Columbus, O.
Combination Ladder Co. ("McIntyre"), Providence, R. I.
Compressed Air Machinery Co. ("Reardon"), Jessie & Ecker, San Francisco, Cal.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Duluth Brass Works Co., Duluth, Minn.
Eastwood Wire Mfg. Co., Belleville, N. J.
Edison Mfg. Co., Boston, Mass.
Elkhart Brass Mfg. Co. ("Cowan", "Fehy". Also Suction Hose), Elkhart, Ind.
Fabric Fire Hose Co., 127 Duane, New York
Farnan Brass Works ("Fehy"), Cleveland, O.
Federal Brass Works (Fire Hose), 225 W Illinois, Chicago, Ill.
Findlay, A. W. Co. ("Time Saving"), 23d & Fries & Co., Buffalo, N. Y. Market, Phila., Pa.
Handlan-Buck Mfg. Co. ("Lightning" for Compound Air). 212 N 3d, St. Louis, Mo.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
**HELWIG MFG. CO. (Automatic), St.** Paul, Minn. (See adv. index, end of book)
Howell, F. R. Brass Works, 122 N Franklin, Phila., Pa.
James Mfg. Co. ("Klingtite"), Cleveland, O.
Kelly & Jones Co., Pittsburg, Pa.
Knox Mfg. Co. (For Drill & High Pressure). 704 Arch, Phila., Pa.
Lightning Hose Coupling Co. ("Lightning" Aluminum Patent Thread), Boston, Mass.
**LUNKENHEIMER CO., General Offices & Works, Cincinnati, O. (See adv. index & branch offices, end of book)**
Lupfer, Wendel (Est. of) (Brewers), 216 Locust, St. Louis, Mo.
Manitowoc Dry Dock Co. ("Gunnell"), Manitowoc, Wis.
McDonald, A. Y. Mfg. Co., Dubuque, Iowa
Mulconroy Co., Inc. ("Mulconroy"), 722 Arch, Phila., Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Pipe & Hose Coupler Co. ("Jay"), Detroit, Mich.
National Supply Co. (All Sizes), Baltimore, Md.
Neumayer, H. F. ("Never Slip"), Macungie, Pa.
Newhall, Geo. N. Engng. Co. ("Pahlow"), 136 S 4th, Phila., Pa.
Nunn Brass Works ("Emergency" Fire Hose), Rochester, N. Y.
Peck Bros. & Co., New Haven, Conn.
Pioneer Brass Works ("P. B. W." Expansion Ring), Indianapolis, Ind.
Q. M. S. Co., Plainfield, N. J.
Schaal Mfg. Co., Erie, Pa.
Sherman, H. B. Mfg. Co. ("Mill"), Battle Creek, Mich.
Standard Brass & Iron Works (Brewers, etc., also for Steam Hose), Milwaukee, Wis.
Stebins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., Chicago, Ill.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waterbury Brass Goods Corporation (Wrought Brass), Waterbury, Conn.
Waukegan Brass Mfg. Co., Waukegan, Ill.
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)
Wilmington Brass Co. ("Lally"), Wilmington, Del.
Wolverine Brass Works, Grand Rapids, Mich.

## 2455—Couplings (Hose Band)

Morgan, B. ("Morgan's" Clamp), Newport, R. I.

## 2456—Couplings (Hydraulic Pipe Line)

Caskey Valve Co., 99 John, New York

## 2457—Couplings (Insulated)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa.** (See adv. index, end of book)

## 2458—Couplings (Lead Flange)

Campbell, J. B. Brass Works, Erie, Pa.
Glauber Brass Mfg. Co., Cleveland, O.
Hays Mfg. Co., Erie, Pa.
Mueller, H. Mfg. Co., Decatur, Ill.

## 2459—Couplings (Lead Pipe)

Allyne Brass Foundry Co. ("Corcoran"), Detroit, Mich.
Anderson Coupling Co. ("Anderson"), Hartford, Conn.
Fostoria Novelty Co., Fostoria, O. ford, Conn.
Kidder, D. & Son, North Groton, N. H.

## 2460— Couplings (Meter)

Clark, H. W. Co. ("Texsagon" No Gasket), Mattoon, Ill.

## 2461— Couplings (Pipe)

**AMERICAN SPIRAL PIPE WORKS** (Bolted Joint), W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Anderson Coupling Co. ("Anderson"), Hart-
Belknap Mfg. Co., Bridgeport, Conn. ford, Conn.
Central Tube Co., Pittsburg, Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Custer Coupling Co., Bradford, Pa.
Dart, E. M. Mfg. Co., Providence, R. I.
Dayton Pipe Coupling Co. ("Dayton" All Steel), Dayton, O.
Dresser, S. R. Mfg. Co. ("Dresser"), Bradford, Pa.
Elkhart Brass Mfg. Co. (Steam & Water Brass), Elkhart, Ind
General Fire Extinguisher Co., Providence, R. I.
Grabler Mfg. Co. (Wrought Iron), Cleveland, O.
Grip Coupler Co. ("Grip", for Unthreaded Pipe), Ware, Mass.
Hammon Coupler Co. ("Hammon"), Pittsburg, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jefferson Union Co., Lexington, Mass.
Kelly & Jones Co. ("Kelly," Wrought Iron, etc.), Pittsburg, Pa.
**LAWRENCEVILLE BRONZE CO.** ("O. K."), Pittsburg, Pa. (See adv. index, end of book)
**LUNKENHEIMER CO. (Brass). General** Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Modern Iron Works (For Lead or Iron Pipe), Mueller, H. Mfg. Co., Decatur, Ill. Quincy, Ill.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Standard Engineering Works (For Gas Lines), Ellwood City, Pa.
Strater, Herman & Sons, 74 Sudbury, Boston,
Vulcan Iron Works, Seattle, Wash. Mass.

## 2462— Couplings (Railroad Emergency)

Q. M. S. Co. ("Gilman-Brown"), Plainfield, N. J.

## 2462a—Couplings (Reducer)

**DETROIT TWIST DRILL CO.** (For Increasing the Range of Sizes Taken by Various Chucks), Detroit, Mich. (See adv. index, end of book)

## 2463—Couplings (Reducing Punch)

Lovejoy Tool Works ("Lovejoy"), 335 W Ohio, Chicago, Ill.

## 2464 Couplings (Rock Drill)

Howell, F. R. Brass Works, 122 N Franklin, Phila., Pa.

## 2465— Couplings (Shaft)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Almond, T. R. Mfg. Co. (Angular or Quarter Turn Countershaft), Ashburnham, Mass.
Barnard & Leas Mfg. Co., Moline, Ill.
Blakeslee Mfg. Co., Birmingham, Ala.
**BROWN, A. & F. CO., 172 Fulton,** New York; Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Chickasaw Iron Works, Memphis, Tenn.
Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa.
Davis, W. P. Machine Co., Rochester, N. Y.
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.
Estes Coupling Works ("Estes" Compression), Cuba, N. Y.
Falls Clutch & Mach'y Co. Cuyahoga Falls, O.
Franklin Machine Co., Providence, R. I.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Golden's Foundry & Machine Co., Columbus, Ga.
Great Western Mfg. Co., Leavenworth, Kan.
Holyoke Machine Co., Holyoke, Mass.
Hunter, James Machine Co., North Adams, Mass.
Huntsville Foundry & Machine Works (Nolan & Jones, Props.), (Compression, Flange, Clutch, etc.), Huntsville, Ala.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lane Mfg. Co., Montpelier, Vt.
Lombard Iron Works & Supply Co., Augusta, Ga.
Medart Patent Pulley Co., St. Louis, Mo.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nicholson, W. H. & Co. (Compression), Wilkesbarre, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Plamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill.
Platt Iron Works Co., Dayton, O.
Poole Engin'g & Machine Co., Baltimore, Md.
Schaal Mfg. Co., Erie, Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Stuart, R. J. & T. H., New Hamburg, N. Y.
Thomas Coupling Co., Warren, Pa.
Union Forging Co. (Straight Ear), Union, N.Y.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Witte Iron Works Co., Kansas City, Mo.

## 2466—Couplings (Soldering)

Campbell, J. B. Brass Works, Erie, Pa.

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## 2467—Couplings (Sucker Rod)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Rumsey & Co. (Ltd.), (Wrought Forged), Seneca Falls, N. Y.

## 2468— Couplings (Swivel)

**LUNKENHEIMER CO., General Offices & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 2469—Couplings (Wire Rope)

**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)

## 2470—Covering or Casing (Steam Pipe)

**WYCKOFF, A. & SON CO. ("Wyckoff"** Patent Waterproof), Elmira, N. Y., & Alexandria, La. (See adv. index, end of book)

## 2471—Covers (Battery Jar)

American Hard Rubber Co., 11 Mercer, New York
Auburn Button Works, Auburn, N. Y.
Consumers Rubber Co. ("Euclid"), Cleveland, Ohio
Dickinson Mfg. Co., Springfield, Mass.
Duranoid Mfg. Co., Newark, N. J.
Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
Stokes, Jos. Rubber Co., Trenton, N. J.

## 2472—Covers (Catch Basin)

American Foundry & Mfg. Co., St. Louis, Mo.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Carpenter & Browning ("X. L. C. R." Cement), 40th av & Taylor, Chicago, Ill.
Compound Injector & Specialty Co. ("Dehn's, Acme"), 419 N 52d, Chicago, Ill.
Continental Radiator & Fdry Co., St. Louis, Mo.
Decatur Foundry, Furnace & Machine Co., Decatur, Ill.
Franklin Pipe & Foundry Co., 2438 S Paulina, Galion Iron Works Co., Galion, O. Chicago, Ill.
Greenwood Co. ("Boosey's"), Detroit, Mich.
Illinois Malleable Iron Co., 1801 Diversey blvd, Chicago, Ill.
MaGirl, P. H. Fdry & Furnace Works, Bloomington, Ill.
McDonald, H. W. & Co., Galion, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co. ("Acme"), Cleveland, O.
Mott, J. L. Iron Works, 118 5th av, New York
Nazareth Fdry & Machine Co., Nazareth, Pa.
Stowell Mfg. & Fdry Co., So. Milwaukee, Wis.
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.

## 2473— Covers (Canvas)

Harrison, Jno. (Est. of) (Plain & Waterproof Canvas for Mines, etc.), 170 South, New York

## 2474— Covers (Coal Hole)

American Brake Shoe & Foundry Co., Chicago, Ill & New York
**AMERICAN MASON SAFETY TREAD** Co. ("Safety"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
Barber Mfg. Co. (With or Without Glass). Ashtabula, O.
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. Index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.** (Solid & Ventilated), Canton, O. (See adv. index, end of book)
**CANTON MFG. CO., CANTON, O. (See** adv. index, end of book)
**CHICAGO SIDEWALK LIGHT CO.,** Shields av & 33d, Chicago, Ill. (See adv. index, end of book)
Dauchy Iron Works, 223 W Illinois, Chicago, Ill.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Love Bros. (Inc.), Aurora, Ill.
Love, M. A. Mfg. Co., Rockford, Ill.
McLagon Foundry Co., New Haven, Conn.
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co. ("Acme"), Cleveland, O.
Mesker, Geo. L. & Co., Evansville, Ind.
Metropolitan Iron Foundry (Rings & Covers), 548 W 55th, New York
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
Paxton & Vierling Iron Works, Omaha, Neb.
**RIESECK, P., Allegheny av & Re**becca, N. S., Pittsburg, Pa. (See adv. index, end of book)
**SMITH, F. P., WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Sterling Foundry Co., Sterling, Ill.
Vierling Iron Works, 23d & Stewart av, Chicago, Ill.

## 2475— Covers (Fuse Block)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Pettingell, Andrews Co. ("O. K."), Boston, Mass.

## 2476—Covers (Grain Binder)

International Harvester Co. of America (Canvas, Chicago, Ill.

## 2477— Covers (Manhole)

American Brake Shoe & Foundry Co., Chicago, Ill., & New York
Barber Mfg. Co., Ashtabula, O.
Belmont Iron Works, 22d & Washington av, Phila., Pa.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buckeye Foundry Co., Cincinnati, O.
Builders' Iron Foundry, Providence, R. I.
Burr, E. M. Co., Champaign, Ill.
Caldwell, E. R. & Co., Bradford, Pa.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Carmody Foundry & Machine Co., Cedar Rapids, Iowa
**CARLIN'S, THOS. SONS CO. (And** Sewer Castings), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Clow, Jas. B. & Sons, 344 Franklin, Chicago.
Coffin Valve Co., Neponset, Boston, Mass. Ill.
Coldwell-Wilcox Co. (Also Pivot), Newburgh, N. Y.
Concord Foundry & Machine Co. (Also Grates & Traps), Concord, N. H.
Co-Operative Foundry Co. ("Stuart's Safety" Manhole), Detroit, Mich.
Davies & Thomas Co., Catasauqua, Pa.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Dee, Wm. E. Co., 108 Lasalle, Chicago, Ill.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Dimmick Pipe Co., Birmingham, Ala.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, & 82 Warren, New York. (See adv. index & branch offices, end of book)
Drummond, M. J. & Co., 182 B'way, New York
Eagle Foundry & Machine Co., Fort Scott, Kan.
Enterprise Foundry Co., Rochester, N. Y.
Eureka Foundry Co., Rochester, N. Y.
Galena Foundry & Machine Co., Galena, Kan.
Globe Foundry & Machine Co., Sheboygan, Wis.
Hay Foundry & Iron Works, Newark, N. J.
Holbrook-Armstrong Iron Co., Racine, Wis.
Kramer Bros. Foundry Co., Dayton, O.
Kuhns Bros., Dayton, O.
Love, M. A. Mfg. Co., Rockford, Ill.
McDonald Bros., Columbus, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co. ("Acme"), Cleveland, O.
Maher & Flockhart, Newark, N. J.
Metcalf, Jas. Co., Newark, N. J.
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
Millar, Chas. & Son Co., Utica, N. Y.
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv index & branch offices, end of book)
Modern Iron Works, Quincy, Ill.
Muncie Foundry & Machine Co., Muncie, Ind.
New Brunswick Iron Works, 9 Water, New Brunswick, N. J.
Northwestern Foundry, Minneapolis, Minn.
Over, Ewald, Indianapolis, Ind.
Paxton & Vierling Iron Works, Omaha, Neb.
Portsmouth Machine & Casting Co., Portsmouth, O.
Raquette Foundry & Supply Co., Massena, N. Y.
Reeves Foundry Co., Trenton, N. J.
Rempis & Gallmeyer Fdy. Co., Grand Rapids, Mich.
Richmond Iron Works, Richmond, Va.
Russell, Albert & Sons Co., Newburyport, Mass.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Sessions Foundry Co. (Subway, etc.), Bristol, Conn.
South Bend Fdry Co., South Bend, Ind.
South Park Foundry & Machine Co., St. Paul, Minn.
Springfield Fdry Co., Springfield, Mass.
Standard Foundry Co., Buffalo, N. Y.
Steiger & Kerr Stone & Foundry Co., San Francisco, Cal.
Swett, A. L. Iron Works, Medina, Wis.
Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
Toledo Foundry & Machine Co., Toledo, O.
U. S. Cast Iron Pipe & Foundry Co., 71 B'way, New York
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.
Wallace Machine & Foundry Co., Lafayette, Ind.

## 2478— Covers (Nut)

Erie Stamping & Mfg. Co. (Pressed Steel), Erie, Pa.
**Glauber Brass Mfg. Co. (Nickel Plated),** Cleveland, O.

## 2479— Covers (Pulley)

**Hamilton, E. A. & Co. ("Cantslip"), Grand** Rapids, Mich.

## 2480— Cowls (Chimney)

De Bruycker, August ("A. B."), 173 7th av, Brooklyn, N. Y.
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 5th &** Eggleston av, Cincinnati, O., & 1123 B'way, New York. (See adv. index & branch offices, end of book)

## 2481— Crabs (Hoisting)

**AMERICAN HOIST & DERRICK CO.** (Single & Double Drum), St. Paul, Minn. (See adv. index & branch offices, end of book)
**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N E, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)
Browning, Victor R. & Co., Cleveland, Ohio
Byers, John F. Machine Co., Ravenna, O.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Dake Engine Co., Grand Haven, Mich.
Dempster Mill Mfg. Co., Beatrice, Neb.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Eagle Foundry & Machine Co., Ft. Scott, Kan.
**FAIRBANKS, MORSE & CO. (Windmill,** etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Helmick Foundry & Machine Co., Fairmont, W. Va.
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
Round, D. & Son, Cleveland, Ohio
Toledo Bridge & Crane Co., Toledo, O.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Urie-Snyder Iron Works Co., Kansas City, Mo.
Vulcan Iron Works, Wilkes-Barre, Pa.
Yale & Towne Mfg. Co. ("Brown" Safety), 9 Murray, New York

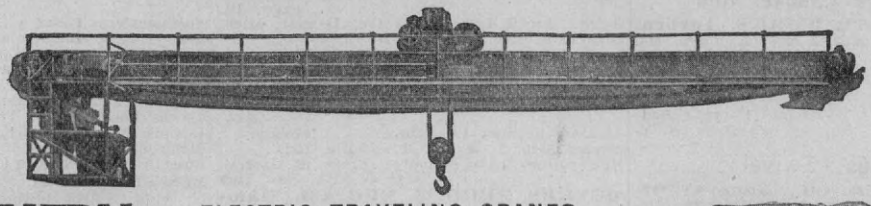
## 2482— Crackers (Corn)

Gibson Oats Cleaner Co., McCormick bldg., Chicago, Ill.

## 2483— Cradles (Grain)

Iowa Farming Tool Co., Fort Madison, Ia.
McGuire, B. C. J., Wilmore, Pa.
Seymour Mfg. Co., Seymour, Ind.
Spear, W. D., Conewango, N. Y.

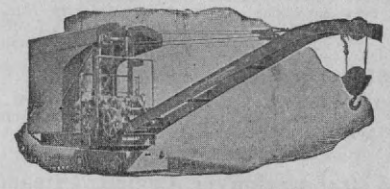
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ELECTRIC TRAVELING CRANES
HAND POWER TRAVELING CRANES
LOCOMOTIVE CRANES
JIB, PILLAR AND BRACKET CRANES
CONVEYING AND COLD STORAGE OUTFITS
OVERHEAD TROLLEY SYSTEMS

NORTHERN ENGINEERING WORKS, 9 CHENE STREET DETROIT, MICH., U. S. A.



## 2484—Crane Controllers (Electric)

American Electric Fuse Co. ("Allen-Bradley"), Muskegon, Mich.
Automatic Switch Co., 131 Liberty, New York
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**CUTLER-HAMMER MFG. CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.** (Reversing, for Electric Cranes, Hoists, etc.), Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**MORGAN ENGINEERING CO., Alli**ance, O. (See adv. index & branch offices, end of book)
Toledo Bridge & Crane Co., Toledo, O.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2485— Crane Runways

**DES MOINES BRIDGE & IRON CO.** (Steel), 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Toledo Bridge & Crane Co., Toledo, Ohio
Yale & Towne Mfg. Co., 9 Murray, New York

## 2486— Cranes

(For Various Kinds of Cranes See Sub-classifications following)
Alliance Machine Co., Alliance, Ohio.
Box, Alfred & Co., 813 N Front, Phila., Pa.
**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
Browning Engineering Co., Cleveland, O.
Bucyrus Co., South Milwaukee, Wis.
Case Crane Co., Columbus, O.
Chambersburg Eng. Co., Chambersburg, Pa.
Christiana Machine Co., Christiana, Pa.
**CLEVELAND CRANE & ENGINEERING** Co., Cleveland O. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Currier, Cyrus & Sons, Newark, N. J.
Curtis & Co. Mfg. Co. (Air), St. Louis, Mo.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Dodge, J. M. Co. (Locomotive, Stationary & Revolving), Nicetown, Philadelphia, Pa.
**EXETER MACHINE WORKS, Pitts**ton, Pa. (See adv. index & branch offices, end of book)
Euclid Crane & Hoist Co., Euclid, Ohio
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Gregg Co. (Ltd.), Lodi, N. J.
Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Industrial Works, Bay City, Mich.
Johnston & Jennings Co., Cleveland, O.
Lane Mfg. Co. ("Anderson" Rope Driven Traveling), Montpelier, Vt.
Lincoln Iron Works, Rutland, Vt.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
Mackintosh-Hemphill & Co., Pittsburg, Pa.
**MARION STEAM SHOVEL CO. (Elec**tric), W Center, Marion, O. (See adv. index & branch offices, end of book)
Maris Bros., 56th & Gray's av, Phila., Pa.
Modern Steel Structural Co., Milwaukee, Wis.
Morgan Construction Co., Worcester, Mass.
**MORGAN ENGINEERING CO., Alli**ance, O. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
**NORTHERN ENGINEERING WORKS,** ("Northern"), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co., Milwaukee, Wis.
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
Ridgway, Craig & Son Co., Coatesville, Pa.
Sellers, Wm. & Co. (Inc.), Phila., Pa.
Shaw Electric Crane Co., Muskegon, Mich.
Shriver, T. & Co., Harrison, N. J.
Smith, Whitcomb & Cook Co., Barre, Vt.
**SPEIDEL, J. G., Reading, Pa.** (See adv. index, end of book)
Toledo Bridge & Crane Co., Toledo, O.
United Engineering & Foundry Co., Farmers Bank bldg. Pittsburg, Pa.
Vulcan Iron Works (Dock), Toledo, O.
Wellman-Seaver-Morgan Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## Cranes (Air)

(See Cranes, Pneumatic)

## 2487—Cranes (Automobile, Portable)

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Nicholls, Wm. S., 253 B'way, New York

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**WHITING FOUNDRY EQUIPMENT Co.,** Harvey, Ill. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co. (Hand Power), 9 Murray, New York

## 2489—Cranes (Cantilever)

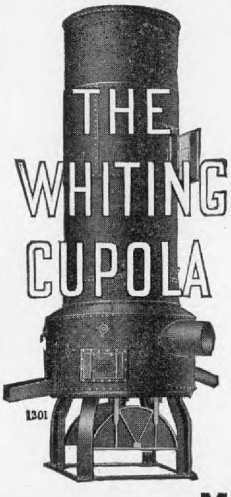
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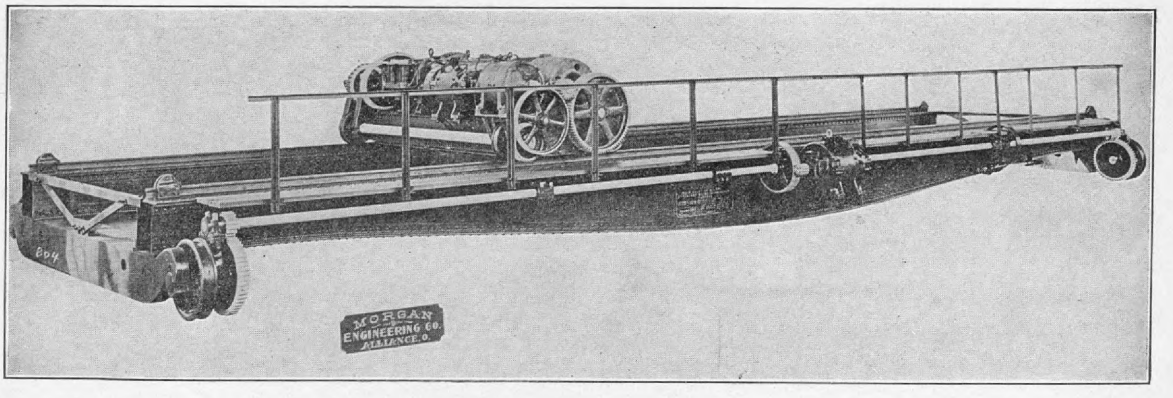
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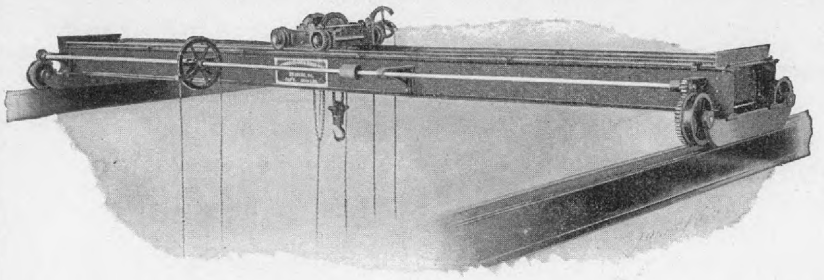
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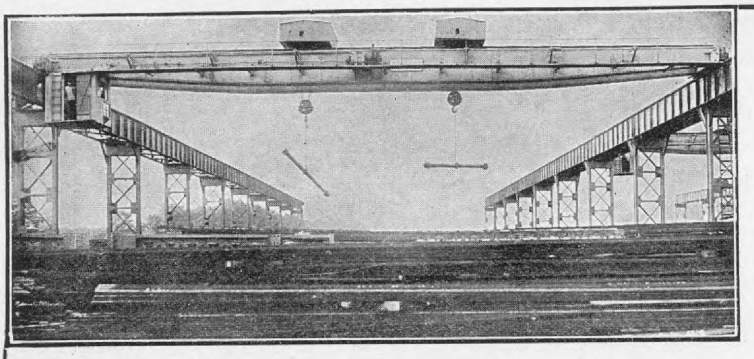
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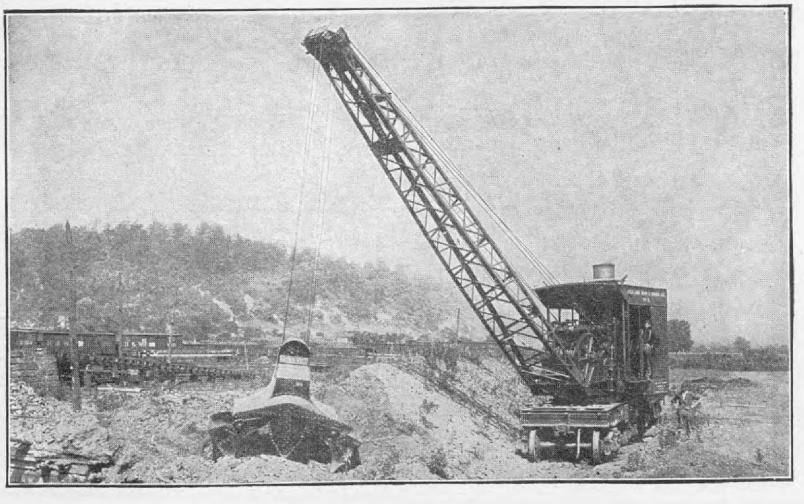
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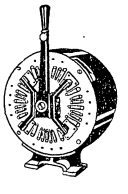
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**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2497— Cranes (Forge)

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Toledo Bridge & Crane Co., Toledo, Ohio
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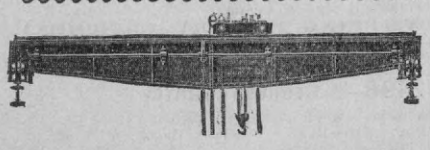
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Box, Alfred & Co. (Traveling), 813 N Front, Philadelphia, Pa.
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Johnston & Jennings Co., Cleveland, O.
Lincoln Iron Works (Jib, etc., for Stone Quarries & Stone Mills, etc.), Rutland, Vt.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
Maris Bros., 56th & Gray's Ferry rd, Phila., Pa.
Moore, Franklin Co., Winsted, Conn.
Morgan Cons. Co. (Traveling), Worcester, Mass.
National Foundry & Machine Co., Connelsville, Pa.
**NEW JERSEY FOUNDRY & MACHINE Co., 90 West, New York**
Nicholls, Wm. S. (Portable), 253 B'way, New York
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co. (Traveling), 38th & National avs, Milwaukee, Wis.
Putnam & Co. ("Hand Power Traveling"), 211 Water, New York.
Q. M. S. Co., Plainfield, N. J.
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**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Cloud Iron Works Co. (Hand Power Traveling), St. Cloud, Minn.
Shaw Electric Crane Co., Muskegon, Mich.
**SHEPARD ELECTRIC CRANE &** Hoist Co., Montour Falls, N. Y. (See adv. index & branch offices, end of book)
Shriver, T. & Co., Harrison, N. J.
**SMITH, J. D. FOUNDRY SUPPLY** Co., 1846 Scranton rd, Cleveland, O. (See adv. index & branch offices, end of book)
**SPEIDEL, JOHN G. (Hand Power** Traveling), Reading, Pa. (See adv. index, end of book)
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Yale & Towne Mfg. Co., 9 Murray, New York

## 2500—Cranes (Hydraulic)

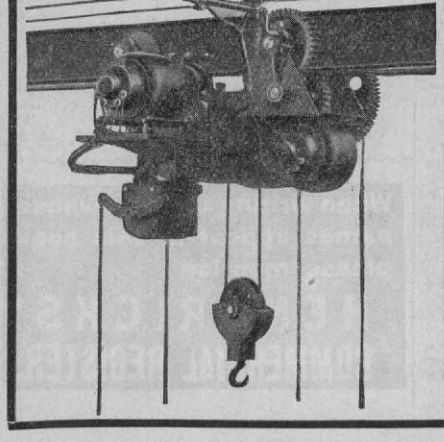
Alliance Machine Co., Alliance, O.
Chambersburg Eng. Co., Chambersburg, Pa.
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., Pittsburg,** Pa. (See adv. index, end of book)
Mackintosh-Hemphill & Co. (Ltd.), Pittsburg, Pa.
Morgan Const. Co., Worcester, Mass.
**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
Ridgway, Craig & Son Co. (Direct Self-Actings, etc.), Coatesville, Pa.
Toledo Bridge & Crane Co., Toledo, Ohio
Tod, Wm. Co. (Direct Self-Acting, etc.), Youngstown, O.
United Engineering & Foundry Co. (Jib, Whip, for Rolling Mills), Farmers' Bank bldg., Pittsburg, Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wellman-Seaver-Morgan Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co. (Pneumatic, Electric, Steam & Hand Power), Harvey, Ill. (See adv. index & branch offices, end of book)
Wood, R. D. & Co. (Jib, Bracket, Tower, etc.), 400 Chestnut, Phila., Pa.
**WRIGHT WIRE CO., Worcester,** Mass.
Zastrow, Geo. W. (For Packing Houses), 1404 Thames, Baltimore, Md.

## 2501—Cranes (Hydro Pneumatic)

Q. M. S. Co., Plainfield, N. J.

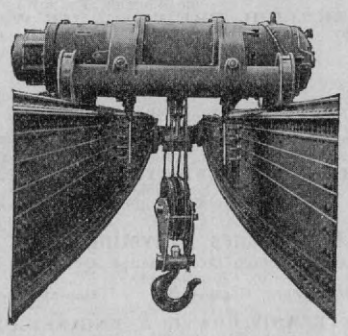
## 2502— Cranes (Jib)

Alliance Machine Co. (Hydraulic & Electric), Alliance, Ohio
Box, Alfred & Co., 813 N Front, Phila., Pa.
**BROWN HOISTING MACHINE CO.,** 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.** (Wood, with Iron Fixtures), Canton, O. (See adv. index, end of book)
Case Crane Co. (Belt, Hand Power & Electric), Columbus, Ohio
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Curtis & Co. Mfg. Co. (Pneumatic), St. Louis, Mo.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Euclid Crane & Hoist Co., Euclid, O.
**EXETER MACHINE WORKS, Pittston, Pa.** (See adv. index & branch offices, end of book)
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)



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Johnston & Jennings Co. (Hand Power), Cleveland, O.
Jones & Laughlin Steel Co. (Small Jib Crane or Worm Hoist), Pittsburg, Pa.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
Maris Bros., 56th & Gray's av, Phila., Pa.
Morgan Construction Co., Worcester, Mass.
**MORGAN ENGINEERING CO (For** Rolling Mills, etc.), Alliance, O. (See adv. index & branch offices, end of book)
**NEW JERSEY FOUNDRY & MACHINE** Co. (Walking, etc.), 90 West, New York
Niles-Bement-Pond Co., 111 B'way, New York
**NORTHERN ENGINEERING WORKS** (Electric, Hand & Pneumatic), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co. (Electric), Stationary, Traveling & Traveling Wall), 38th & National avs, Milwaukee, Wis.
Q. M. S. Co. ("Q. & C." Post & Hydro Pneumatic), Plainfield, N. J.
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
Ridgway, Craig & Son Co., Coatesville, Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
Shaw Electric Crane Co., Muskegon, Mich.
**SHEPARD ELECTRIC CRANE &** Hoist Co., Montour Falls, N. Y. (See adv. index & branch offices, end of book)
Toledo Bridge & Crane Co., Toledo, Ohio
**UNION ELEVATOR & MACHINE CO.** (Hand Power), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Whitehead & Kales Iron Works, Detroit, Mich.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.
Yale & Towne Mfg. Co. (Hand Power), 9 Murray, New York

## 2503—Cranes (Jib, Electric Walking)

**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Toledo Bridge & Crane Co., Toledo, Ohio
**WHITING FOUNDRY EQUIPMENT** Co. Harvey, Ill. (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila, Pa.

## 2504—Cranes (Jib, Top Braced, Under Braced)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2505—Cranes (Jib, Walking)

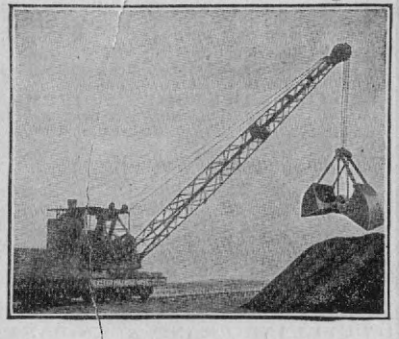
Pawling & Harnischfeger Co., Milwaukee, Wis.

## 2506— Cranes (Ladle)

Alliance Machine Co. (Electric), Alliance, O.
Case Crane Co., Columbus, O.
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**MORGAN ENGINEERING CO. (Electric),** Alliance, O. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co., Milwaukee, Wis.
Toledo Bridge & Crane Co., Toledo, Ohio
Wellman-Seaver-Morgan Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2507—Cranes (Locomotive)

Alliance Machine Co., Alliance, O.
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
**BROWN HOISTING MACHINERY CO.** (Steam), 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
Browning Engineering Co., Collinwood, Cleveland, O.
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
Dodge, J. M. Co. (Steam or Electric), Nicetown, Phila., Pa.
**EXETER MACHINE WORKS (Witlo** Grab Buckets, etc.), Pittston, Pa. (See adv. index & branch offices, end of book)
Fairbanks Steam Shovel Co., Marion, Ohio
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Industrial Works (Electric & Steam), Bay City, Mich.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO. (Steam & Electric),** Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Ohio Locomotive Crane Co., Bucyrus, O.
Orton-Steinbrenner Crane Co. ("O.-S."), 181 La Salle, Chicago, Ill.



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Pawling & Harnischfeger Co. (Electric & Steam), Milwaukee, Wis.
Sellers, Wm. & Co. (Inc.) (Locomotive Jib Cranes for Dry Docks & Piers), 1600 Hamilton, Phila, Pa.
Vulcan Steam Shovel Co., Toledo, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 2508—Cranes (Locomotive Bucket)

**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

## 2509— Cranes (Logging)

**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N E, Cleveland, O., & 26 Cortlandt, New York. (See adv. index & branch offices, end of book)
Industrial Works, Bay City, Mich.
**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)
Phoenix Mfg. Co. (Direct Acting Steam), Eau Claire, Wis.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

## 2510— Cranes (Mail)

Barker Mail Crane Co. ("Barker"), Clinton, Iowa
Columbian Mail Crane Co. ("Columbian" Mail), 898 Factory, Columbus, O.
Mudge, Burton W. & Co., Peoples Gas bldg, Chicago, Ill.

## 2511— Cranes (Pillar)

Alliance Machine Co., Alliance, O.
**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
Case Crane Co., Columbus, O.
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
Currier, Cyrus & Sons, Newark, N. J.
Farrel Foundry & Machine Co., Ansonia, Conn.
**GUERRLICH, FRED'K C., 156 West,** av, Long Island City, N. Y. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Industrial Works (Pillar & Transfer for Use in Handling Freight), Bay City, Mich.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co. (Electric Jib), 38th & National avs, Milwaukee, Wis.
Q. M. S. Co., Plainfield, N. J.
Toledo Bridge & Crane Co., Toledo, Ohio
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2512— Cranes (Pneumatic)

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Curtis & Co. Mfg. Co. ("Curtis" Traveling, etc.), St. Louis, Mo.
Dake Engine Co., Grand Haven, Mich.
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
**GUERRLICH, FRED'K C., 156 West,** av, Long Island City, N. Y. (See adv. index, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Q. M. S. Co., Plainfield, N. J.
Ridgway, Craig & Sons Co., Coatesville, Pa.
Triumph Ice Machine Co., Cincinnati, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2513— Cranes (Portable)

**CANTON FOUNDRY & MACHINE CO.** (Portable Floor Crane & Hoist), Canton, O. (See adv. index, end of book)
Faunt Le Roy Elevator Co. (Electric), Baltimore, Md.
Franklin Portable Crane & Hoist Co. (All Iron, on Wheels), Franklin, Pa.
**GUERRLICH, FRED'K C., 156 West,** av, Long Island City, N. Y. (See adv. index, end of book)
Hunt, C. W. Co., New Brighton, New York
Loetzer Valve & Mfg. Co. ("Little Giant" All Iron, Monroeton, Pa.
Milton, S. G. & Son, Franklin, Pa.
Nicholls, Wm. S. (Roller Bearing Wheels, Capacity up to 6,000 lbs.), 253 B'way, New York
Round, David & Son, Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2514— Cranes (Riveting)

Alliance Machine Co., Alliance, Ohio.
Case Crane Co., Columbus, O.
Chambersburg Engineering Co., Chambersburg, Pa.
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**GUERRLICH, FRED'K C., 156 West,** av, Long Island City, N. Y. (See adv. index, end of book)
**MORGAN ENGINEERING CO. (Electric,** etc.), Alliance, O. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Q. M. S. Co., Plainfield, N. J.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2515—Cranes (Top Braced)

Box, Alfred & Co., 813 N. Front, Phila., Pa.
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**GUERRLICH, FRED'K C., 156 West,** av, Long Island City, N. Y. (See adv. index, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

## 2516—Cranes Tower Riveting)

**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger, Co., Milwaukee, Wis.

## 2517— Cranes (Transfer)

**BROWN HOISTING MACHINERY CO.** (Tables for Railroads), 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., Pittsburg,** Pa. (See adv. index, end of book)
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Industrial Works (For Station Use in Handling Freight), Bay City, Mich.
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
Pawling & Harnischfeger Co., Milwaukee, Wis.
Shaw Electric Crane Co., Muskegon, Mich.
**SHEPARD ELECTRIC CRANE &** Hoist Co., Montour Falls, N. Y. (See adv. index & branch offices, end of book)
Toledo Bridge & Crane Co., Toledo, Ohio
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2518— Cranes (Traveling)

(See also Cranes, Electric Traveling)

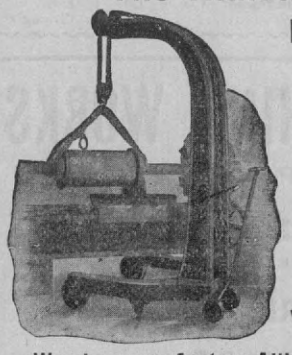
American Hoist & Mfg. Co. (Hand Power Chain), Hamburg, Pa.
Box, Alfred & Co. (Hand & Power), 813 N Front, Phila., Pa.
Case Crane Co., Columbus, O.
**CHISHOLM & MOORE MFG. CO.** (Hand Power), 49th & Lake, Cleveland, O. (See adv. index, end of book)
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)


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Coburn Trolley Track Mfg. Co. (Hand Power), **Holyoke, Mass.**
Curtis & Co. Mfg. Co., St. Louis, Mo.
Dake Engine Co. (Pneumatic), Grand Haven, Mich.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.** (Hand Power), Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Euclid Crane & Hoist Co. (Electric), Euclid, O.
**EXETER MACHINE WORKS, Pittston,** Pa. (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Harrington, Edwin Son & Co. (Hand), 17th & Callowhill, Philadelphia, Pa.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Lane Mfg. Co. ("Anderson" Rope Driven), Montpelier, Vt.
Love Bros. (Inc.) (Hand & Power), Aurora, Ill.
Johnston & Jennings Co. (Hand Power), Cleveland, O.
Modern Steel Structural Co. (Electric), Waukesha, Wis.
Morgan Construction Co., Worcester, Mass.
**MORGAN ENGINEERING CO. (Electric),** Alliance, O. (See adv. index & branch offices, end of book)
New Albany Mfg. Co. (Single Motor, Electric), New Albany, Ind.
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
**NORTHERN ENGINEERING WORKS** (Electric & Hand), 9 Chene, Detroit, Mich (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co. (Electric & Hand Power), 38th & National avs, Milwaukee, Wis.
Q. M. S. Co. (Hand), Plainfield, N. J.
**READING CRANE & HOIST WORKS** (Hand Power), Reading, Pa. (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Shaw Electric Crane Co. (Electric), Muskegon, Mich.
Shriver, T. & Co. (Electric, etc.), Harrison, N. J
**SPEIDEL, JOHN G. (Hand Power),** Reading, Pa. (See adv. index, end of book)
Steacy-Schmidt Mfg. Co. (Inc.), York, Pa.
Toledo Bridge & Crane Co., Toledo, Ohio
Whitehead & Kales Iron Works (Hand), Detroit, Mich.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Yale & Towne Mfg. Co. (Hand Power), 9 Murray, New York

## 2519— Cranes (Truck)

**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices. end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 2520— Cranes (Water, for Sprinkling Wagons)

Eddy Valve Co., Waterford, N. Y.
Ludlow Valve Mfg. Co. (For Sprinkling Cars, etc.), Troy, N. Y.

## 2521—Cranes (Water, Locomotive)

(See also Water Columns or Stations, Railroad)
American Valve & Meter Co. ("Poage's" Automatic), Cincinnati, Ohio
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Otto Gas Engine Works, 33d & Walnut, Phila., Pa.
Sheffield Car Co., Three Rivers, Mich.
Snow, T. W. Construction Co. ("Snow-Moore"), Elsworth bldg, Chicago, Ill.
U. S. Wind Engine & Pump Co., Batavia, Ill.

## 2522— Cranes (Wrecking)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo.
**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
Browning Engineering Co., Cleveland, O.
Bucyrus Co., South Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
Industrial Works (Steam & Hand Power), Bay City, Mich.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
**MARION STEAM SHOVEL CO., West** Center, Marion, O. (See adv. index & branch offices, end of book)
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Shaw Electric Crane Co., Muskegon, Mich.

## 2523— Crank Indexes

**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
United States Gauge Co., 67 Wall, New York

## 2524—Crank Turning Device

**Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.**

## 2525— Cranks (Ball)

Cincinnati Ball Crank Co. (Steel), Cincinnati, Ohio

## 2526—Cranks (Milling Machine)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

## 2527— Crankshafts

(See also Crankshafts, Gas Engine; also Crankshafts, Automobile; also Forgings, Various Kinds)
Atlas Drop Forge Co., Lansing, Mich.
**BAY CITY FORGE CO. (Smooth** Forged, Finished or Semi-Finished), Erie, Pa. (See adv. nidex, end of book)
Bethlehem Steel Co. (Nickel Steel, etc.), South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. (Cast Steel), Birdsboro, Pa.
Block-Pollak Iron Co., Carthage, Cincinnati, O.
Boston Forge Co., Boston, Mass.
Braeburn Steel Co. (Steel), Braeburn, Pa.
Brylgon Steel Casting Co. (Cast Steel), New Castle, Del.
Cambria Steel Co. (Steel), Johnstown, Pa.
Carbon Steel Co. (Nickel, Steel, etc.), 32d & Smallman, Pittsburg, Pa.
Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Chester Engineering & Machine Co., Chester, Pa.
Chester Steel Castings Co. (Cast Steel), Chester, Pa., & 407 Sansom, Phila., Pa
**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
Crescent Forgings Co., Oakmont, Pa.
Crucible Steel Co. of America, Pittsburg, Pa.
Dunne, Geo. W. & Co., 1814 Carroll av, Chicago, Ill.
Ellwood City Forge Co., Ellwood City, Pa.
Erie Forge Co. (Ltd.), Erie, Pa.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Helmbacher Forge & Rolling Mills Co., Wainwright bldg, St. Louis, Mo.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keystone Drop Forge Works (Drop Forged). Chester, Pa.
Leland, Wm. H. & Co., Worcester, Mass.
Massachusetts Machine Shop (Inc.), Worcester, Mass.
Michigan Crank Shaft Co., Muskegon, Mich.
Midvale Steel Co. (Nickel, Steel, etc.), Nicetown, Phila., Pa.
Obenberger Drop Forge Co. (Finished & Unfinished), Milwaukee, Wis.
Page-Storms Drop Forge Co. (Drop Forged). Chicopee, Mass.
Penna. Steel Co., 1421 Chestnut, Phila., Pa. Works: Steelton, Pa.
Reading Iron Co., Reading, Pa.
Richmond Forgings Corporation (Drop Forged). Belle Isle, Richmond, Va.
Sizer Forge Co., Buffalo, N. Y.
Smith, A. O. Co., Milwaukee, Wis.
**STANDARD GAUGE STEEL CO. (Fin**ished to Order Only), Beaver Falls, Pa. (See adv. index, end of book)
Sundberg, Kropp Co., 2510 W 21st, Chicago, Ill.
Tindel-Morris Co. (Steam Forgings, Gas Engine Shaft, Finished Ready for Installation), Eddystone, Pa., & Ellwood City, Pa.
Titusville Forge Co. (Centre Throw), Titusville, Pa.
Union Drop Forge Co. (Drop Forged Weldless), 358 W Indiana, Chicago, Ill.
Vulcan Iron Works, Wilkes-Barre, Pa.
Wyman & Gordon Co. (Drop Forged), Worcester, Mass., & Cleveland, O.

## 2528—Crankshafts (Automobile)

(See also Crankshafts; also Forgings, Drop)
Acme Steel & Malleable Iron Works, 245 Military rd, Buffalo, N. Y.
**ANDERSON FORGE & MACHINE CO.** Fairview, Detroit, Mich. (See adv. index, end of book)
Atlas Drop Forge Co., Lansing, Mich.
Auto Crankshaft Co., Detroit, Mich.
Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Cambria Forge Co., Johnstown, Pa.
Carpenter Steel Co. (Nickel Chrome Steel), Reading, Pa.
Chester Engineering & Machine Co., Chester, Pa.
Erie Forge Co. (Drop Forge), Erie, Pa.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Funk Engineering Co., Hoboken, N. J.
Gill, P. H. & Sons, Lorraine, c Otsego, Brooklyn, N. Y.
Lauer, Jno. Machine Co., Detroit, Mich.
Leland, W. H. & Co., Worcester, Mass.
Obenberger Drop Forge Co., Milwaukee, Wis.
Page-Storms Drop Forge Co., Chicopee, Mass.
**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. See adv. index, end of book)
Tioga Steel & Iron Co., 52d and Gray's av. Phila., Pa.
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 2529—Crankshafts (Bronze)

Page-Storms Drop Forge Co., Chicopee, Mass.

## 2530—Crankshafts (Gas Engine)

(See also Crankshafts; also Forgings, Various Kinds)
**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
Atlas Drop Forge Co., Lansing, Mich.
**BAY CITY FORGE CO., Erie, Pa.** (See adv. index, end of book)
Chester Engineering & Machine Co., Chester, Pa.
Erie Forge Co., Erie, Pa.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Lauer, Jno. Machine Co., Detroit, Mich.
Obenberger Drop Forge Co., Milwaukee, Wis.
Page-Storms Drop Forge Co., Chicopee, Mass.

**If You Are In Doubt**

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

**They Can Tell You**

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**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)
Tindel-Morris Co. (Finished), Eddystone, Pa.
Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa
Union Drop Forge Co. (Drop Forged Weldless), 358 W Indiana, Chicago, Ill.

## 2531 Crayon Mfrs.

(See also Crayons & Pencils, Metal Workers; also Pencil Manufacturers)

**AMERICAN CRAYON CO. (All Kinds** for All Purposes), Sandusky, O., & Waltham, Mass. (See adv. index, end of book)
American Lava Co. (Fdry), Chattanooga, Tenn.
American Lead Pencil Co. (Colored), 43 W 4th, New York
American Supply Co. (Lumber), Mobile, Ala.
Binney & Smith Co. (Marking, School & Artists), 81 Fulton, New York
Cohutta Talc Co. (Blackboard), Dalton, Ga.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite, Metal Workers', Colored),** Jersey City, N. J. (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY (Soapstone).** 101 Beekman, New York. (See adv. index, end of book)
Eagle Pencil Co. (Colored), 377 B'way, New York
Faber, Eberhard (Colored), 190 Fifth av, New York
Franklin Crayon Co. (Civil Engineers' & Checking), Rochester, N. Y.
Korn, William (Marking & Lithographic), 120 Centre, New York
Lowell Crayon Co. (Mill & Metal Workers'), Lowell, Mass.
Nevins, Samuel C. Co. (Importer, French Chalk & Talc), 109 S 2d, Phila., Pa.
New York Silicate Book Slate Co. (Silicate), 24 Vesey, New York
North Carolina Talc & Mining Co. (Talc). Hewitts, N. C.
Standard Crayon Mfg. Co. ("Falcon" & "U. S. Standard," 4 Colors, for All Purposes), Danvers, Mass.
Steward, D. M. Mfg. Co. ("Compo," Dustless), Chattanooga, Tenn.

## 2532–Crayons (Bowling Alley)

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)

## 2533– Crayons (Colored)

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)
**DIXON, JOS., CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

## 2533a–Crayons ("Cryograph" & "Crayonast")

**AMERICAN CRAYON CO., Sandusky,** O. (See adv. index & branch offices, end of book)

## 2534– Crayons (Dustless, White & Colored)

**AMERICAN CRAYON CO. (Hygieia).** Sandusky, O., & Waltham, Mass. (See adv. index, end of book)

## 2535– Crayons (Leather)

**AMERICAN CRAYON CO. (Beacon).** Sandusky, O., & Waltham, Mass. (See adv. index, end of book)

## 2536–Crayons (Lecturers')

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)

## 2537– Crayons (Lumber)

**AMERICAN CRAYON CO. (Acme),** Sandusky, O., & Waltham, Mass. (See adv. index, end of book)
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

## 2538– Crayons (Marble)

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)

## 2539– Crayons (Pastello)

**AMERICAN CRAYON CO., Sandusky,** O. (See adv. index & branch offices, end of book)

## 2540–Crayons (Railroad)

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

## 2541– Crayons (School)

**AMERICAN CRAYON CO. (White &** Colored), Sandusky, O., & Waltham, Mass. (See adv. index, end of book)
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

## 2542–Crayons (Wax & Oil, School & Package)

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)

## 2543–Crayons & Pencils (Metal Workers', Etc.)

**AMERICAN CRAYON CO., Sandusky,** O., & Waltham, Mass. (See adv. index, end of book)
Binney & Smith Co., 81 Fulton, New York
Chrystal, Chas. B., 11 Cliff, New York
Cohutta Talc Co. (Talc Soapstone), Dalton, Ga.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite),** Jersey City, N. J. (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY (Soapstone** & Talc, "Peerless" & "Perfection" Brands) 101 Beekman, New York. (See adv. index, end of book)
**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)
Korn, Wm. ("Korn's" for Hot or Cold Metal), 120 Center, New York
Lowell Crayon Co., Lowell, Mass.
Nevins, Sam'l Co. (Talc & French Chalk), 109 S 2d, Phila., Pa.
North Carolina Talc & Mining Co. (Talc). Hewitts, N. C.
Steward, D. M. Mfg. Co. ("Compo"), Chattanooga, Tenn.
Zelnicker Crayon Works, St. Louis, Mo.

## Creamery Apparatus & Supplies

(See Creamery Machinery; also Separators, Cream; also Testers, Creamery, Etc.)

## 2544–Creases (Leather, Etc.)

Osborne, C. S. & Co. (Harness Makers, etc.), Harrison, N. J.

## 2545–Creepers (Anti- Rail)

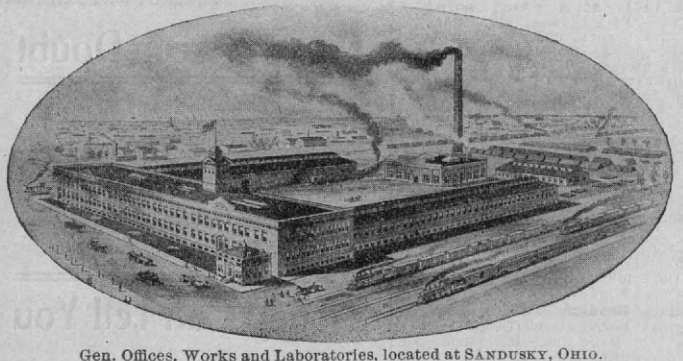
American Railway Device Co., McCormick bldg, Chicago, Ill.
Belle City Malleable Iron Co. ("L. & S."), Racine, Wis.
Cleveland Frog & Crossing Co. ("Prentice"), Cleveland, O.
Cleveland Railway Supply Co., Combination Tie Plates & Anti-Rail Creepers), Cleve-
Dorpmueller Co., 81 Fulton, New York land, O.
Phila., Pa.
National Railway Materials Co. ("Murray"), 90 West. New York
Oliver Iron & Steel Co. (Anti-Creeper Device), Pittsburg, Pa.
P. & M. Co. ("P & M", Boltless), Monadnock blk, Chicago, Ill.
Q. & C. Co. ("Baughn", "Racine", "L. & S.", Q. & C.", "Bull Dog", "Otto", "Murray"), Plainfield, N. J.

## 2546– Creepers (Ice)

Boivin, P. E., Cohoes, N. Y.
Gay, Geo. E., Augusta, Me.
Gifford-Wood Co. ("Fletcher"), Hudson, N. Y.
Holderbaum, Jas. B. ("Reliance"), Somerset, Pa.
Hubbell, Ray ("Arnold"), Northville, N. Y.
Norlund Mfg. Co. ("Norlund"), Williamsport,
Rapp, Philip ("Victor"), Reading, Pa. Pa.
Reading Saddle & Mfg. Co. ("Anti-Slip"), Reading, Pa.
Sayre, L. A. & Co., Newark, N. J.
Sinclair-Scott Mfg. Co., Baltimore, Md.
Thompson, Judson L. Mfg. Co. ("Never-Slip"), Waltham, Mass.
Union Hardware Co., Torrington, Conn.
West, Chas. F. (Flat Spring Steel), 3861 Lancaster av., Phila., Pa.

## 2546a–Creosote Plants Installed

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

Gen. Offices, Works and Laboratories, located at SANDUSKY, OHIO.

CRAYONS FOR EVERY PURPOSE.

School Crayons, White and Colored of every description, Hygieia Dustless Crayons, White and Colored, Lecturers Crayons, Pastello Crayons, Tailors Crayons, Textile Mill Crayons, Railroad Crayons, Wax and Oil School and Package Crayons, Hydraulic Pressed Crayons, Lumber Crayons, Metal Workers Crayons, Marking Crayons, Checking Crayons, Marble Crayons, Leather Crayons. Bowling Alley Crayons, Carpenters Chalk, Hand Bowling Chalk, Foot Bowling Chalk, Billiard Chalk, White and Colored, Water Color Paints, Water Color Pencils, Hygieia Nest Eggs, Lime Nest Eggs, Hygieia Dust Collector, Lock Cornered Basswood Boxes.

THE AMERICAN CRAYON CO.
SANDUSKY, O. U. S. A. WALTHAM, MASS.


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## 2547— Creosoting Works

(See also Wood Preseravtives)

American Creosote Works, New Orleans, La.
American Creosoting Co., 95 Liberty, New York; Works, Newark, N. J.
American Creosoting Co., 193 Michigan av, Chicago, Ill.
Atlantic Creosoting & Wood Preserving Works, Norfolk, Va.
Ayer & Lord Tie Co., Railway Ex. bldg, Chicago, Ill.
Barber Asphalt Paving Co. (Dead Oil of Coal Tar Process), Maurer, N. J.
Colman, J. M. Co. (Inc.), Seattle, Wash.
Eppinger & Russell Co., 165 B'way, New York
Galveston Creosoting Co. (Bridge Timbers, Ties, etc.), Galveston, Tex.
Georgia Creosoting Co., Lambertville, N. J.
Gulfport Creosoting Co., Gulfport, Miss.
Indiana Creosoting Co., 193 Michigan av, Cleveland, Ohio
Indiana Zinc Creosoting Co. (Zinc Creosoting), Terre Haute, Ind.
International Creosoting & Construction Co., Galveston, Tex.
Kansas City Creosoting Co., Kansas City, Mo.
Kettle River Co., Minneapolis, Minn.
Michigan Pipe Co., Bay City, Mich.
National Lumber & Creosoting Co., Texarkana, Ark.
New Orleans Wood Preserving Works, New Orleans, La.
Norfolk Creosoting Co., Citizens Bank bldg, Norfolk, Va.
Puget Sound Wood Preserving Co., Lowell, Wash.
Southern Creosoting Co., Slidell, La.
W. S. Wood Preserving Co., 165 B'way, New York
Wyckoff Pipe & Creosoting Co., 50 Church, New York

## Crestings (Terra Cotta)

(See Roofing Tile, Terra Cotta)

## 2548—Crestings & Finials (Iron)

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T., Wire & Iron Works (Iron), 82 Washington av, Detroit, Mich.
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Creswell, S. J. Iron Works, 23d & Cherry, Phila., Pa.
Dearborn Fdry Co., 1525 Dearborn, Chicago, Ill.
Fiske, J. W. Iron Works, 56 Park pl, New York
Detroit Arch'l Iron Works Co., Detroit, Mich.
Gensel, Fred & Co., 911 Vine, Phila., Pa.
Goodwin, F. O., 5556 Arch, Phila., Pa.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Jones, Thos. W., 22 Burling sl, New York
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
**PITT, WM. R., COMPOSITE IRON** Works, 136 W 24th, New York. (See adv. index, end of book)
**SCHREIBER, L & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way,** New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON W'KS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Van Dorn Iron Works Co. (Crestings), Cleveland, O.
Wells Architectural Iron Co., 219-221 E 144th, New York
Westervelt, A. B. & W. T., 102 Chambers,
Whyte, Oliver & Co., Boston, Mass. New York

## 2549—Crestings & Finials (Sheet Metal)

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO., CANTON, O. (See** adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index, & branch offices, end of book)
Eller Mfg. Co., Canton, O.
Gara, McGinley & Co., 23 S 17th, Phila., Pa.
Hergert, Theo. E., E 422 E 53d, New York
Indianapolis Corrugating Co. (Ornamental, Galvanized Steel), Indianapolis, Ind.
Jones, Thos. W., 22 Burling sl, New York
Kanneberg Roofing & Ceiling Co., Canton, O.
**MILWAUKEE CORRUGATING CO., S. Bay** & Aldrich, Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
**NATIONAL SHEET METAL ROOFING** Co., 339 Grand, Jersey City, N. J. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Van Noorden, E. Co., Boston, Mass.

## 2550— Cribbage Boards

American Pin Co., Waterbury, Conn.

## 2551— Crimpers (Cap)

**du PONT, E. I. de NEMOURS POW**der Co. ("Du Pont" & "California"), Wilmington, Del. (See adv. index & branch offices, end of book)

## 2552— Crimpers (Pie)

National Mfg. Co., Worcester, Mass.

## 2553— Crocus

Hanson & Van Winkle Co., Newark, N. J.

## 2553a—Cross Arms, Brackets, Etc. (Iron & Steel)

Ajax Line Material Co. ("Volta"), So. Milwaukee, Wis.
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Belmont Iron Works, 2215 Washingeon av, Phila., Pa.
Bissell, F. Co. ("Security," Angle Iron), Toledo, O.
Brady, T. H., New Britain, Conn.
Creaghead Engineering Co. (Malleable Iron), Cincinnati, O.
Cutter, Geo. Co., South Bend, Ind.
Electric Railway Equipment Co., Cincinnati, O.
Electric Service Supplies Co., 1024 Filbert, Phila., Pa.
Fletcher Mfg. Co. (Iron & Steel Pins), Dayton, Ohio
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hallett Iron Works, 519 W Polk, Chicago, Ill.
Harvard Electric Co., 523 W Van Buren, Chicago, Ill.
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Sons (Steel Angle), 101 S. 29th. Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Morris Iron Works, 90 West, New York
Naugatuck Malleable Iron Co. ("Beardsley," Malleable Iron), Naugatuck, Conn.
**NEWHALL CHAIN, FORGE & IRON CO.** 90 West, New York
Ohio Brass Co., Mansfield, O.
St. Louis Malleable Casting Co. (Malleable Iron), St. Louis, Mo.
**SIMMONS, JOHN CO., 110 Centre,** New York. (See adv. index, end of book)
Walworth Mfg. Co., Boston, Mass.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Cross Arms (Creosoted)

(See Creosoting Works)

## 2554— Cross Arms (Wood)

(See also Insulator Pins & Brackets)

Absher, W. M. Co. (Southern Pine Cross Arms, Oak & Locust Insulator Pins & Brackets), North Wilkesboro, N. C.
American Cross Arm Co., 42 Madison, Chicago, Ill.
Anguera Lumber Co., Fisher bldg, Chicago, Ill
Berlin Mills Co. (Kyanized Spruce), Portland, Me.
Bissel, F. Co. (Yellow Pine & Fir Cross Arms & Locust Pins), Toledo, O.
Boggs & McNeill Co., Albany, Ga.
Bruton, J. C., Fayetteville, N. C.
California Pole & Piling Co., San Francisco, Cal.
Central Mfg. Co. (Yellow Pine Brackets, Cross Arms & Pins), Chattanooga, Tenn.
Clark, A. F. Lumber Co., Peabody, Mass.
Cohn & Bock Co. (Yellow Pine Cross Arms, Oak Insulator Pins & Brackets), Princess Anne, Md.
**DIAMOND EXPANSION BOLT CO. (Insu**lator Pins), 90 West, New York. (See adv. index & branch offices, end of book)
Eastern R'way & Lumber Co., Centralia, Wash.
Elkin Machine Co., Elkin, N. C.
Hoskins, J. S. Lumber Co., Baltimore, Md.
Houston & Liggett (Live & White Oak, Gum & Elumn Insulator Pins), Houston, Tex.
Kapp & Miller Co. (Cross Arms, etc.), Rural Hall, N. C.
Kettle River Co., Minneapolis, Minn.
Lindsley Bros. Co., Spokane, Wash.
McCormick Lumber Co., McCormick, Wash.
Michigan Pipe Co. (Creosoted), Bay City, Mich.
Norfolk Creosoting Co., Norfolk, Va.
Pilliod Lumber Co., Swanton, O.
Roper, J. L. Lumber Co., Norfolk, Va.
Southern Exchange Co. (Georgia Pine Cross Arms), Maxton, N. C.
Southern Pine Mfg. Co. (Yellow Pine), Paducah, Ky.
Texas Arm & Pin Co. ("Dewey"), Beaumont, Tex.
Union Railway Supply Co., Phila., Pa.
Voncannon, J. B., West End, N. C.
Western Electric Co., 500 S. Clinton, Chicago, Ill., & 57 Bethune, New York
Williams, J. E. & Co., Centralia, Wash.
Wyckoff Pipe & Creosoting Co., Stamford, Conn.

## Cross Ties

(See Ties, Poles & Posts)

## 2555—Crosses (Pipe Fitting)

**BLAKE SPECIALTY CO. (Soil Pipe),** 2412 3d av, Rock Island, Ill. (See adv. index, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kuhns Bros. (Cast Iron), Dayton, O.
**LUNKENHEIMER CO. (Brass),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
National Tube Co. (Cast & Malleable Iron), Pittsburg, Pa.
Pittsburg Valve & Fitting Co. (Brass, Cast Iron & Malleable Iron), Barberton, Ohio
Powell, Wm. Co. (Brass), Cincinnati, Ohio
Sherman, H. B. Mfg. Co. (Brass), Battle Creek, Mich.
Walworth Mfg. Co. (Brass, Cast & Malleable Iron), Boston, Mass.

## Crossings (Railway)

**(See Frogs, Switches, Crossings, Etc.)**

## 2556— Crow Bar Mfrs.

(Wedge or Pinch Point)

Atha Tool Co., Newark, N. J.
American Shovel & Stamping Co., Lorain, O.
Beall Bros. (Inc.) (Pinch or Wedge Point, etc.), Alton, Ill.
Collins Co., Collinsville, Conn.
Doble, Abner Co., San Francisco, Cal.
Evansville Tool Works (Pinch & Wedge Point), Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falls Mfg. Co., 360 Fremont, San Francisco, Cal.
Fulton Tool Works (Miners), Canal Fulton, O.
Hardscog, Martin Co. (Miners), Pittsburg, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Klein-Logan Co., Pittsburg, Pa.
Logan Iron & Seeel Co., Burnham, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick") Works, Cheswick, Pa.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Verona Tool Co., Pittsburg, Pa.
Warwood Tool Co., Wheelling, W. Va.
Washington Cutlery Co., Watertown, Wis.
Coldwell-Wilcox Co. ("Brennan"), Newburgh, N. Y.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

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## 2557– Crozes (Coopers')

White, L. & I. J. Co., Buffalo, N. Y.

## 2558– Crucible Mfrs.

Baker & Co. (Platinum), Newark, N. J.
Bartley, Jonathan, Crucible Co. (Graphite), Trenton, N. J.
**Berge, J. & H. (Importers), 95 John, New York**
Bridgeport Crucible Co. (Black Lead), Bridgeport, Conn.
Buffalo Dental Mfg. Co., Buffalo, N. Y.
Denver Fire Clay Co. (Jobbers), Denver, Colo.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Black Lead Crucibles & Retorts), Jersey City, N. J.** (See adv. index & branch offices, end of book)
Eimer & Amend (Importers), 205 3d av, New York
**Gautier, J. H. & Co. (Black Lead), Jersey City, N. J.**
**Goebel, J. & Co. (Importers), 129 Maiden la, New York**
Heil, Henry Chemical Co. ("Battersea", Imported), St. Louis, Mo.
McCullough-Dalzell Crucible Co., 36th & A. V., Pittsburg, Pa.
National Carbon Co. (Made From Carbon), Cleveland, O.
**Paige Retort & Crucible Co., Taunton, Mass.**
**Ross-Tacony Crucible Co., Tacony, Phila., Pa.**
Seidel, Reuben B. (Inc.) (Black Lead), 1334 Callowhill, Phila., Pa.
Taunton Crucible Co. (Pure Ceylon Graphite, Taunton, Mass.
**Taylor, Robert J. (Inc.), 1900 Callowhill, Phila., Pa.**
Woods-Lloyd Co., Pittsburg, Pa.

## Crucible Steel

(See Steel, Crucible)

## 2559–Crucibles (Brazing)

**DIXON, JOS. CRUCIBLE CO. ("Dixon's"),** Jersey City, N. J. (See adv. index & branch offices, end of book)

## 2560–Crucibles (Graphite)

Bridgeport Crucible Co. (Clay Lined), Bridgeport, Conn.
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
International Acheson Graphite Co. (For High Temperature Work), Niagara Falls, N. Y.

## 2561– Crucibles (Iron)

Stuart & Peterson Co., Burlington, N. J.

## 2562–Crucibles (Platinum)

Bishop, J. & Co., Malvern, Pa.

## 2563– Crucibles (Steel)

**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

## 2564–Crushers (Asphalt)

Coldwell-Wilcox Co., Newburgh, N. Y.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

## 2565– Crushers (Clay)

American Clay Machinery Co., Bucyrus, O.
American Pulverizer Co., St. Louis, Mo.
Anderson Foundry & Machine Works, Anderson Ind.
Arnold-Creager Co., New London, O.
Bonnot Company, Canton, O.
Brazil Machine & Foundry Co., Brazil, Ind.
Brewer, H. & Co., Tecumseh, Mich.
Brunner, Foundry & Machine Co., Peru, Ill.
Eagle Iron Works, Des Moines, Ia.
Fernholtz Brick Machinery Co., St. Louis, Mo.
Freese, E. M. Co., Galion, O.
Frost Mfg. Co., Galesburg, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.
Raymond, C. W. Co., Dayton, O.
Schutz-O'Neill Co., Minneapolis, Minn.
Scott-Madden Iron Works Co., St. Louis, Mo.
Stedman Foundry & Machine Works, Aurora, Ind.
Stevenson & Co., Wellsville, O.
Taplin-Rice-Clerkin Co., Akron, O.
Wallace Mfg. Co., Frankfort, Ind.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

## 2566–Crushers (Coal & Coke)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Pulverizer Co., St. Louis, Mo.
**BARTLETT, C. O. & SNOW CO. ("Triumph", Two & Four Roll),** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Beaumont, R. H. Co., Drexel bldg, Phila., Pa.
Connellsville Machine & Car Co., Connellsville, Pa.
Conveying Machinery Co., 120 Liberty, New York
Excel Mfg. Co., Pottersville, N. J.
**EXETER MACHINE WORKS, Pittston,** Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farnham Mfg. Co., Buffalo, N. Y.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Johnson Engineering Works ("Johnson", Marathon), 164 Dearborn, Chicago, Ill.
**LINK BELT COMPANY ("Link Belt"),** Hunting Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Lyle Clay Cleaner Co., 39 Cortlandt, New York
**MEAD-MORRISON MFG. CO., Cambridge,** Moston, Mass. (See adv. index & branch offices, end of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.
Mullen, Jno. & Son, Shamokin, Pa.
Noye Mfg. Co., Buffalo, N. Y.
Pennsylvania Crusher Co. (Hammer, Rotary, etc.), Stephen Girard bldg, Phila., Pa.
**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)
Power & Mining Machinery Co., Cudahy, Wis.
Schutz-O'Neill Co., Minneapolis, Minn.
**SPROUT, WALDRON & CO. (Also** Facing), Muncy, Pa. (See adv. index, end of book)
Stacey Mfg. Co., Elmwood Pl., Cincinnati, O.
Stedman's Foundry & Machine Works, Aurora, Ind.
Stephens-Adamson Mfg. Co., Aurora, Ill.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Vulcan Iron Works, Wilkes-Barre, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

## Crushers (Coke)

(See Crushers, Coal & Coke)

## Crushers (Corn & Cob)

(See Mills, Corn & Cob)

## 2567– Crushers (Hammer)

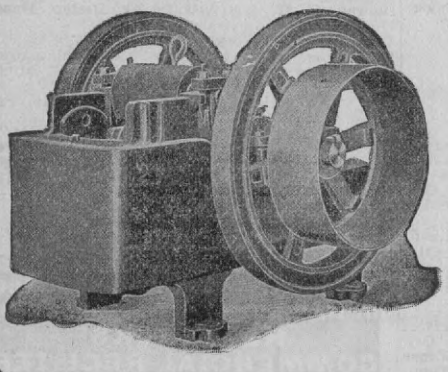
Pennsylvania Crusher Co. (For Cement, Rock, Clay, etc.), Phila., Pa.

## 2568– Crushers (Oat)

Bellows & Avery Co. ("National"), 309 B'way, New York

## 2569–Crushers (Rock & Ore)

Acme Road Machinery Co., Frankfort, N. Y.
**ALLIS-CHALMERS CO. ("Gates"), Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Concentrator Co. ("Blake," "New Century"), Joplin, Mo.
American Pulverizer Co. ("American"), St. Louis, Mo.
American Road Machine Co., Kennett sq, Pa.
Austin-Western Co. (Ltd.), 315 Dearborn, Chicago, Ill.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Bonnot Co., Canton, O.
Butterworth & Lowe (Inc.) (Jaw Reciprocating; also Rotary for all Rock softer than Granite), Grand Rapids, Mich.
Bradley Pulverizer Co., 9 State, Boston, Mass.
Calkins Co. ("Advance" Ore), Los Angeles, Cal.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Chalmers & Williams ("Kennedy" Gyratory, also "Blake", "Dodge"), Chicago Heights, Ill.
Climax Road Machine Co., Marathon, N. Y.

ACID OPEN HEARTH **STEEL CASTINGS**

**THE BLAKE ROCK AND ORE CRUSHER**

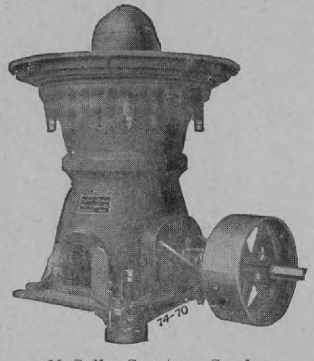
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**Repair Parts Furnished for Eccentric Pattern Blake Crushers, Manufactured Formerly by the Robinson-Rea Manufacturing Co.**


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McCully Gyratory Crusher

The McCully was the Original Gyratory Crusher with the Suspended Shaft and the Drop Bottom Plate, and is the standard to-day.
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Rock Crushing Machinery — Mining and Smelting Machinery
Cement Making Machinery
Wood Impregnating Plants — Power Transmitting Machinery
Loomis-Pettibone Gas Generators — Suction Gas Producers

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Cresson, Geo. V. Co. ("Buchanan" All Steel), Allegheny av, w of 17th, Phila., Pa.
Denver Engineering Works Co. (Ore), Blake & 30th, Denver, Col.
Elspass Engineering & Mining Machinery Co. ("Samson" Ore Crushers), Denver, Colo.
Eureka Stone & Ore Crusher Co. ("Mitchell"), Cedar Rapids, Iowa
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Farrel Foundry & Machine Co. (Stone Breakers, etc.), Ansonia, Conn.**
Galion Iron Works Co., Galion, O.
Good Roads Machinery Co., Kennett Square, Pa.
Hallidie Co. ('Blake' Pattern), Spokane, Wash.
Hassell Iron Works Co., Colorado Springs, Colo.
Hendy Joshua Iron Works (Ore Rock), San Francisco, Cal.
Hoyt, L. E. Co., Walton, N. Y.
Indiana Road Machine Co. ("Indiana," "National" & "Fort Wayne"), Fort Wayne, Ind.
**JEFFREY MFG. CO. ("Jeffrey" Rotary,** etc.), Columbus, O. (See adv. index & branch offices, end of book)
Kelly-Springfield Road Roller Co., Springfield, Ohio
**Krom Machine Works (Ore), 170 B'way, New York.** Works, Jersey City, N. J.
Lake Shore Engine Works, Marquette, Mich.
**LAWRENCE IRON & STEEL FOUN**dry Co. ("Blake"), 400 32d, Pittsburg, Pa. (See adv. index, end of book)
McFarlane Mfg. Co., Denver, Colo.
**MARSH-CAPRON MFG. CO. ("Ken**nedy" Ball & Socket Eccentric), 480 Old Colony bldg, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
**MARSH CO. ("Kennedy" Gyratory** Crusher, Ball & Socket Eccentric), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Martin, William R., Lancaster, Pa.
Merralls Mill Co. ("Merralls" Roll Rock Breakers & "Hercules" Ore & Rock Breaker), San Francisco, Cal.
Mine & Smelter Supply Co. (Ore), 42 B'way, New York, & Denver, Colo.
Morse Bros. Machinery & Supply Co. ("Wild" Mill), Denver, Colo.
New Holland-Machine Co. ("New Holland," Portable Stone Crushers), New Holland, Pa.
Pennsylvania Crusher Co. (Jaw Rock), Stephen Girard bldg, Phila, Pa.
Phillips & McLaren ("Blake"), Pittsburg, Pa.
Phoenix Iron Works, Portland, Ore.
**Portage Lake Foundry & Machinery Co. (Rock Breakers Heavy, for Copper & Iron Mines, etc.), Hancock, Mich.**
Port Huron Engine & Thresher Co., Port Huron, Mich.
**POWER & MINING CO. ("McCully"** Gyratory Crusher; also "Dodge"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Quenner Dry Crusher Co. ("Quenner", for Dry or Wet Ore), 169 B'way, New York
Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.
**SMITH, T. L. CO., Majestic bldg., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Smith & Post Co. ("Symons," Gyratory Rock Crusher), Milwaukee, Wis.
Smith & Sons Mfg. Co. ("Royal" Rock Crusher), Kansas City, Mo.
South St. Louis Foundry, 7516 S B'way, St. Louis, Mo.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Sterrit-Thomas Foundry Co. (Stone Crushers), 33d and Smallman, Pittsburg, Pa.
Sturtevant Mill Co., (Dor.) Boston, Mass.
Symons Bros. (Disc), Milwaukee, Wis.
**Traylor Engineering Co. ("Gyratory," "Blake," etc.),** Allentown, Pa., & 30 Church, New York)
Union Iron Works Co. ("Blake"), San Francisco, Cal.
Universal Crusher Co. ("Velten Universal), Cedar Rapids, Ia.
Universal Road Machinery Co. ("Reliance" Stone Crushers), Kingston, N. Y.
Walker & Elliott (Phosphate), Wilmington, Del.
Webb City & Cartersville Foundry & Machine Works ("Blake" Crushers), Webb City, Mo.
Western Wheeled Scraper Co. (Rock), Aurora, Ill.
**Williams Patent Crusher & Pulverizer Co.** (Quartz Rock), St. Louis, Mo.

## 2570—Crushers (Rock & Ore, Gyratory)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams ("Kennedy"), Chicago Heights, Ill.
Mackintosh, Hemphill & Co., Pittsburg, Pa.
**POWER & MINING MACHINERY CO.** ("McCully"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Smith & Post Co. ("Symons"), Milwaukee, Wis.
Traylor Engineering Co. ("Blake", etc.), Allentown, Pa., & 30 Church, New York

## 2571—Crushers (Rock & Ore, Jaw)

**ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)**
Colorado Iron Works Co., Denver, Colo.
**SMITH, T. L. CO., THE, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 2572— Crushers (Rotary

**JEFFREY MFG. CO. ("Jeffrey"), Co**lumbus, O. (See adv. index & branch offices, end of book)
Pennsylvania Crusher Co. (For Chemicals, Coal, Phosphate, Paints, ets.), Stephen Girard bldg, Phila., Pa.
Sturtevant Mill Co. (For Chemicals, Paints, Phosphate, etc.), Boston, Mass.

## 2573— Crushers (Spindle)

Bethlehem Steel Co., South Bethlehem, Pa.

## 2574— Cryolite

Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.

## 2575— Crystals

General Chemical Co. (Sulphide, Soda, Muriate of Tin), 25 Broad, New York
Solvay Process Co. (Mono-Hydrate & Snow Flake), Syracuse, N. Y.

## 2576—Cultivator Attachments

**Empire Plow Co., Cleveland, O.**
**Gale Mfg. Co., Albion, Mich.**
**Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.**

## 2577— Cultivators

**Akron Cultivator Co. (Riding & Walking Pivot-Axle Automatic, also Walking), Akron, O.**
Allbright, Jas. H. & Sons (Riding & Walking), Mifflinburg, Pa.
**Allen, S. L. & Co., Phila., Pa.**
**American Harrow Co. (Riding & Walking), Detroit, Mich.**
American Plow Co. ("American" Steel, Riding or Walking, Spring Tooth, etc.), Madison, Wis.
American Seeding Machine Co., Springfield, O.
Ames Plow Co., Boston, Mass.
Anderson, F. W., Portland, N. Y.
Arnolds, G. W. Son, Iona, Mich.
**Atlanta Agricultural Works ("Atlanta"), Atlanta, Ga.**
**Avery, B. F. & Sons (Riding & Walking), Louisville, Ky.**
Avery Co. (Riding & Walking, "Avery Doublet," "Doublet"), Peoria, Ill
Babcock Mfg. Co. ("Otsego," Walking, One Horse), Leonardville, N. Y.
Bacon Mfg. Co. (Garden), Pontiac, Mich.
**Bateman Mfg. Co. (Riding, Walking & Horse Hoe), Grenloch, N. J.**
Belcher & Taylor Agl. Tool Co. (Prouts Hoeing Machine). Chicopee Falls, Mass.
Bement's, E. Sons (Riding & Walking), Lansing, Mich.
Benicia Iron Works ("Horners"), Benicia, Cal.
**Blount Plow Works (Walking & Riding), Evansville, Ind.**
Bristol & Gale Co. (Hand), 158 W North Water, Chicago, Ill.
**Brinly-Hardy Co., Louisville, Ky.**
Brown-Manly Plow Co., Malta, O.
**Brown Mfg. Co. (Riding & Walking), Zanesville, O.**
**Bucher & Gibbs Plow Co. (Walking One Horse. Spike Tooth, Spring Tooth, Five Tooth). Canton, O.**
Burch Plow Works Co., Crestline, O.
Case, J. I. Plow Works (Riding & Walking), Racine, Wis.
Castille Chilled Plow Co., Castille, N. Y.
Champion Drill Co., Avon, N. Y.
Children, E. & Sons (Badger & New Badger), Council Bluffs, Iowa
Childs, Chas. H. & Co., Utica, N. Y.
Clore, Wm. H. Mfg. Co. ("Dixie"), Washington, Ind.
Collins Plow Co. ("Iowa" Riding & Walking Combined), Quincy, Ill.
**Cutaway Harrow Co., Higganum, Conn.**
**Deere & Co. (Sugar Cane, also Walking, Riding & Walking & Riding Combined), Moline, Ill.**
**Deere & Mansur Co. (Disc), Moline, Ill.**
**Dempster Mill Mfg. Co., Beatrice, Neb.**
Deuscher, H. P. Co. ("Ideal"), Hamilton, O.
**Donaldson Bros. ("Steel King"), Mt. Clemens, Mich.**
Doylestown Agricultural Works, Doylestown, Pa
**Eagle Mfg. Co., Kansas City, Mo.**
**Eddy, W. Plow Co., Greenwich, N. Y.**
Emerson-Brantingham Co. ("Emerson," "Diamond," "Standard"), Rockford, Ill.
Empire Plow Co., Ensley, Ala.
**Eureka Mower Co. (Spike, Spring & Shovel Tooth, Riding, etc.), Utica, N. Y.**
Everts Mfg. Co., Meridian, N. Y.
Farquhar, A. B. Co., Ltd. (Riding & Walking), York, Pa.
Fort Madison Plow Co., Fort Madison, Ia.
Frye, John J., Portland, Me.
**Fuller & Johnson Mfg. Co., Madison, Wis.**
**Gale Mfg. Co. (Riding or Walking, also Walking Tongue & Tongueless, also Fine Tooth, etc.), Albion, Mich.**
Genung, C. W. (Disc & Single & Double Wheel),
Gesley Mfg. Co., Beloit, Wis. Madison, O.
**Gowanda Agl. Works (Horse Hoe, etc.), Gowanda, N. Y.**
Grand Detour Plow Co. ("Uncle Sam," Walking & Riding), Dixon, Ill.
Greenville Implement Co. (Star Shovel), Greenville, Mich.
Hartford Plow Co. ("Rowell"), Hartford, Wis.
**Hartig-Becker Plow Co. (Up-to-Date), Evansville, Ind.**
**Hartman Mfg. Co. (Riding & Walking), Vincennes, Ind.**
**Hayes Pump & Planter Co. (Riding & Walking), Galva, Ill.**
**Hench & Dromgold Co., Inc. (Riding & Walking), York, Pa.**
Hess Mfg. Co., Nappanee, Ind.
Hoke Mfg. Co. (Riding & Walking), Frankfort, Ind.
**Howell, R. R. Co. (Champion Riding), Minneapolis, Minn.**
Hussey Plow Co., No. Berwick, Me.
**International Harvester Co. of America ("Deering", "McCormick", "Osborne", "Five-Tooth & Horse Hoe"), Chicago, Ill.**
**Janesville Machine Co., Janesville, Wis.**
**Keller Mfg. Co. (New Departure). Sauk Center, Minn.**
**Keystone Farm Machine Co. (Riding & Walking), York, Pa.**
Killifer Mfg. Co., Los Angeles, Cal.
King Drill Mfg. Co., Nebraska City, Neb.
**King & Hamilton Co. ("Little Boy"), Ottowa, Ill.**
**Kingman Plow Co. (Walking & Riding), Peoria, Ill.**
Kirlin, L. Cultivator Co. (One & Two Row Disk Lister), Kansas City, Mo.
**La Crosse Plow Co. (Riding & Walking), La Crosse, Wis.**
Lean, Roderick Mfg. Co. (Riding), Mansfield, Ohio
Lehr Agricultural Co. (Riding & Walking), Fremont, O.
**LONG & ALLSTATTER CO. (Riding,** Walking, Tongue & Tongueless), Hamilton, O. (See adv. index, end of book)
Lovejoy Co., Cambridge, N. Y.
Lyon Iron Works, Greene, N. Y.
McDonald, Wm., Lapeer, Mich.
Maroa Mfg. Co., Maroa, Ill.
**Mason, F. C. & Co. ("Banner," Hand, etc.), St. Johns, Mich.**
Mead Hay Press Co., Pueblo, Col.
**Messinger Mfg. Co. (Steel King Walking), Tamy, Pa.**
Midland Mfg. Co., Tarkio, Mo.
Mishawaka Plow Co., Mishawaka, Ind.
Minneapolis Plow Works, Minneapolis, Minn.
**Moline Plow Co. (Tongue Walking, Tongueless Walking, Riding, Combined Walking & Riding, Disc, Lister, etc.), Moline, Ill.**
**Monmouth Plow Co. (Riding, Combined, Walking & Tongueless), Monmouth, Ill.**
Moore Plow & Implement Co. (Beet & Garden), Greenville, Mich.
Munnsville Plow Co. (Wheel, Harrow, Lever, etc.), Munnsville, N. Y

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National Drill Co., Cambridge City, Ind.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Oaks Mfg. Co., Newbern, N. C.
Ohio Cultivator Co. (Sulky & Walking), Bellevue, O.
Ohio Rake Co. (Riding, "Monarch", "Dayton" & "New Quail"), Dayton, O.
Okmulgee Implement & Mfg. Co. (Alfalfa), Okmulgee, Okla.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co. (Riding, Walking, Disc & One Horse), Canton, Ill.
Pattee Plow Co., Monmouth, Ill.
Peru Plow & Wheel Co. (Riding & Walking), Peru, Ill.
Racine-Sattley Co. (Walking, Riding & Combined "Sattley", "Corker", "Monarch", "Banner", "Sangamo", "Noxall", "New Prime" (2 Row), "Warner", "Lucky Hit", "Easy Way", "Only Way"), Springfield, Ill., & Racine, Wis.
Reed Mfg. Co., Kalamazoo, Mich.
Rock Island Plow Co. (Riding & Walking), Rock Island, Ill.
Rockford Implement Co. ("Thompson," Riding & Combined), Rockford, Ill.
Rockford Mfg. Co. ("Dewey," "Ellwood," "Tiger," "Hiram," "Rockford," "Norman, Jr."), Rockford, Ill.
Rowell, I. B. Co. (Sulky Corn), Menomonee Falls, Wis.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Rude Bros. Mfg. Co. (Riding & Walking), Liberty, Ind.
St. Joseph Plow Co. (Riding & Walking), St. Joseph, Mo.
Sargent, Osgood & Roundy Co., Randolph, Vt.
Smith, D. B. & Co. (Walking), Utica, N. Y.
South Bend Chilled Plow Co. (Riding & Walking), South Bend, Ind.
Southern Plow Co., Columbus, Ga.
Spangler Mfg. Co., York, Pa.
Sparta Plow Works, Sparta, Ill.
Star Mfg. Co. (Walking), Carpentersville, Ill.
Swanson Mfg. Co. (for Listed Corn, etc.), Marseilles, Ill.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Toledo Plow Co. (Riding & Walking), Toledo, Ohio
Tower, J. D. & Sons Co. (Walking & Riding), Mendota, Ill.
Towers & Sullivan Mfg. Co. ("Little Joe," "Eureka"), Rome, Ga.
Tuller Cultivator Co., Kansas City, Mo.
Ulrich, F. W., Rock Falls, Ill.
Van Brunt Mfg. Co., Horicon, Wis.
Washington Weeder Works (Double Disk Weeder), Walla Walla, Wash.
West & Townsend, Martinsville, O.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
White, S. R. & Bro., Norfolk, Va.
**WHITMAN & BARNES MFG. CO.** Riding & Walking), Akron, O. (See adv. index & branch offices, end of book)
Wood Bros. Steel Self Feeder Co., Des Moines, Iowa
Wood, Walter A. Mowing & Reaping Machine Co. (Horse), Hoosick Falls, N. Y.

## 2578—Cultivators (Alfalfa)

Deere & Mansur Co. (Drag Bar Type), Moline, Ill.

## 2579—Cultivators (Bean & Corn)

Allen, S. L. & Co., Denckla bldg, Phila., Pa.
American Seeding Machine Co., Springfield, O.
Bucher & Gibbs Plow Co., Canton, O.
Case, J. I. Plow Works, Racine, Wis.
Moline Plow Co. ("Michigan"), Moline, Ill.
Ohio Cultivator Co. ("Ohio"), Bellevue, O.
Tower, J. D. & Sons Co. ("Tower"), Mendota, Ill.
Wood, W. A., Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 2580— Cultivators (Beet)

Allen, S. L. & Co. ("Planet Jr." 2 & 4 row), Denckla bldg, Phila., Pa.
Bateman Mfg. Co. ("Iron Age" 2 row), Grenloch, N. J.
Bucher & Gibbs Plow Co., Canton, O.
Deere & Mansur Co. (2 & 4 row), Moline, Ill.
Empire Plow Co. ("Empire" 2 row), Cleveland, Ohio
Gale Mfg. Co. ("Gale" 2 row), Albion, Mich.
Moline Plow Co. ("Moline" 2 row Walking, & 4 row Riding), Moline, Ill.
Moore Plow & Implement Co. ("Moore" 2 row), Greenville, Mich.
Ohio Cultivator Co. ("Ohio" 2 row), Bellevue, Ohio
Parlin & Orendorff Co. ("Canton" 2 row), Canton, Ill.
Rowell, I. B. Co. ("Rowell" 2 row), Menomonee Falls, Wis.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Wood, Walter A. Mowing & Reaping Co., Hoosick Falls, N. Y.

## 2581—Cultivators (Garden)

Akron Cultivator Co. (Wheel, Hand), Akron, O.
Allen, S. L. & Co. ("Planet Jr."), Denckla bldg, Phila., Pa.
American Fork & Hoe Co. ("Evans" & "Victor" Hand Cultivators), Cleveland, O.
Ames Plow Co. ("New Universal" Wheel), Boston, Mass.
Anderson, J. H. & Co. ("Boss", Hand), St. Louis, Mo.
Avery, B. F. & Sons ("Avery" Wheel, Hoe, Plow & Weeder), Louisville, Ky.
Bacon Mfg. Co. ("Bacon" Wheel), Pontiac, Mich.
Bateman Mfg. Co. ("Iron Age" Wheel, Hoe, Plow, Weeder), Grenloch, N. J.
Black, Geo. H. ("Queen") Buchanan, Mich.
Brinly-Hardy Co. ("Columbia" Wheel, Hoe, Plow & Weeder), Louisville, Ky.
Bristol & Gale Co. (Wheel Hand), 158 N Water, Chicago, Ill.
Brown-Manley Plow Co. ("Rival" Wheel, Hoe, Plow & Weeder), Malta, O.
Coffeyville Implement & Mfg. Co. ("Banner" Disc), Coffeyville, Kan.
Columbia Planter Co. (Wheel Hand), Springfield, O.
Crescent Forge & Shovel Co. (Wheel), Havana, Ill.
Deuscher, H. P. Co. ("Ideal" Wheel, Hoe, Plow & Weeder), Hamilton, O.
Gale Mfg. Co., Albion, Mich.
Empire Plow Co. (Wheel Hand), Cleveland, O.
Genung, C. W. ("Iron King" Wheel), Madison, O.
Greenville Implement Co. ("Banner," "Garden King," "Peerless" Wheel), Greenville, Mich.
Hess Mfg. Co., Nappanee, Ind.
**INTERNATIONAL HARVESTER CO.** of America ("Deering," "McCormick," "Osborne," Five-tooth, Horse Hoe, etc.), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Jackson Mfg. Co., Jackson, O.
Lean, Roderick Mfg. Co., Mansfield, O.
McCall Mfg. Co. ("Garden King", Disk), Macon, Mo.
Mason, F. C. & Co. ("Banner" Wheel), St. Johns, Mich.
Mobile Garden Implement Co. ("Mobile" Garden), Mt. Gilead, O.
Moore Plow & Implement Co. ("Moore's" Wheel), Greenville, Mich.
National Drill Co., Cambridge City, Ind.
Norcross, C. S. & Sons ("Norcross" Hand), Bushnell, Ill.
Ohio Cultivator Co. ("Climax," "Dexter" Wheel), Bellevue, O.
Ohio Implement Co., Bowling Green, O.
Parlin & Orendorff Co. ("Canton" Wheel, Hoe, Plow & Weeder), Canton, Ill.
Peru Plow & Wheel Co. ("Clipper" Wheel), Peru, Ill.
Prairie Mfg. Co. ("Man Weight" Wheel, Hoe, Plow & Weeder), Indianapolis, Ind.
Sheffield Mfg. Co., Burr Oak, Mich.
Standard Garden Tool Co., Montrose, Ia.
Thompson, J. & Son Mfg. Co. (Walking & Riding), Beloit, Wis.
Thornburgh Mfg. Co. ("Toledo," "Garden King," Wheel, Hoe, Plow & Weeder), Bowling Green, O.
Weyburn Sales Co. ("Scott's" Wheel), Rockford, Ill.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.** ("Diamond" Wheel), Akron, O. (See adv. index & branch offices, end of book)

## 2582— Cultivators (Onion)

(See also Drills, Onion)

Allen, S. L. & Co. ("Planet Jr.", Wheel Hand), Phila., Pa.
Bacon Mfg. Co. ("Bacon", Wheel Hand), Pontiac, Mich.
Deere & Mansur Co. ("McGee", Wheel Hand), Moline, Ill.
Genung, C. W. ("Iron King", Wheel Hand), Madison, Ohio

## 2583—Culvert Forms (Collapsible)

**MARSH CO. ("Miracle" Steel), 975** Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## Culverts (Cast Iron)

(See Cast Iron Pipe Mfrs, Gas & Water)

## 2584— Culverts (Road)

American Metal Stamping Co. (Corrugated Metal, made from "American Ingot Iron"), 20 E Herman, Phila., Pa.
**AMERICAN ROLLING MILL CO.** (Corrugated Metal, made from "American Ingot Iron"), Middletown, O. (See adv. index & branch offices, end of book)
Arnett, Lee (Corrugated Metal, made from "American Ingot Iron"), Lincoln, Neb.
Atlas Metal Works (Corrugated Metal, made from "American Ingot Iron"), Dallas, Tex.
Attica Bridge Co. (Corrugated Steel), Attica, Ind.
Bark River Bridge & Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Bark River, Mich.
Beach Mfg. Co. (Cast Iron, Steel), Charlotte, Mich.
Booth & Flinn (Ltd.) (Concrete), Pittsburg, Pa.
Burch Plow Works Co. (Expansion Cast Iron Pipe), Crestine, O.
Butter Mfg. Co. ("Rus-Pruf"), Minneapolis, Minn.
California Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), West Berkeley, Cal.
Canton Culvert Co. ("Acme" Corrugated Metal, Made From Bloom Iron), Canton, O.
Champion Bridge Co. of New Jersey (Iron), Wilmington, O.
Colorado Ingot Iron Pipe & Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Manitou, Colo.
Columbian Steel Tank Co. (Corrugated Metal, made from "American Ingot Iron"), Kansas City, Mo.
Coral Concrete Culvert Mfg. Co. (Concrete), Coral, Mich
Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Moberly, Mo.
Corrugated Metal Mfg. Co. (Corrugated), Emporia, Kans.
De Forest Sheet & Tin Plate Co. (Corrugated Steel), Niles, O.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. inde & branch offices, end of book)
Delaware Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Clayton, Del.
Dixie Culvert & Metal Co. (Corrugated Metal, made from "American Ingot Iron"), Atlanta, Ga.
Economy Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Auburn, N. Y.
**EDWARDS MFG. CO. (Corrugated** Metal), 545 Eggleson av, Cincinnati, Ohio. (See adv. index & branch offices, end of book)
Fort Dodge Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Fort Dodge, Ia.
Galion Iron Works Co. ("Sterling", Corrugated Metal, "Perfection" & "Ideal" Cast Iron), Galion, O.
Gilbert Improved Corrugated Culvert Co., Austin, Minn.
Good Roads Machinery Co. (Cast Iron Steel), 114 Liberty, New York
Harry Bros. Co. ("Harry's" Corrugated Galvanized Open-Hearth Iron, Anti-Corrosive-Rust Resisting), Newport, Ky., & New Orleans, La.
Harry, O. K. Steel Co. (Steel), St. Louis, Mo.
Harry, O. K., Steel Works (Corrugated Steel), Dallas, Tex.
Heller-Aller Co. (Galvanized Steel), Napoleon, Ohio
Illinois Corrugated Metal Co. (Corrugated Metal, made from "American Ingot Iron"), Bloomington, Ill.
Independence Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Independence, Ia.
Isham-Miller Co. (Metal Sectional), Butternut, Mich.
Kelly Foundry & Machine Co. (Galvanized Steel), Goshen, Ind.
Kelly Mfg. Co. (Steel), Waterloo, Iowa
Kentucky Culvert Mfg. Co. (Corrugated Metal, made from "American Ingot Iron"), Buechel, Ky.
Keystone Metal Culvert Co., Warren, Pa.
Klauer Mfg. Co. (Corrugated, Galvanized), Dubuque, Ia.
Lewis Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"),

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Lone Star Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Houston, Texas
Lyle Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Minneapolis, Minn.
Michigan Bridge & Pipe Co. (Corrugated Metal, made from "American Ingot Iron"), Lansing, Mich.
Montana Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Missoula, Mont.
Lyle Corrugated Culvert Co., Minneapolis, Minn.
Michigan Bridge & Pipe Co., Lansing, Mich.
Montana Culvert Co., Missoula, Mont.
Nebraska Culvert & Mfg. Co. (Corrugated Metal, made from "American Ingot Iron"), Wahoo, Neb.
Nebraska & Iowa Steel Tank Co. (Corrugated), Omaha, Neb.
New England Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Palmer, Mass.
Newport Rolling Mill Co. (Corrugated Metal), Newport, Ky.
North Carolina Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Greensboro, N. C.
North Dakota Metal Culvert Co. (Steel), Fargo, N. D.
Northeast Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Nashau, N. H.
Ohio Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Middletown, O.
Ohio Culvert Pipe Co. (Cast Iron), Tiffin, O.
Oklahoma Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Shawnee, Okla.
O'Neall, W. J. Co. (Corrugated Metal, made from "American Ingot Iron"), Crawfordsville, Ind.
Owosso Culvert & Bridge Co. (Corrugated Steel), Owosso, Mich.
Panama Tank Co. (Corrugated), New Orleans, La.
Penna. Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Warren, Pa.
Porter Iron Roofing & Corrugating Co. (Corrugating Metal), 522 Culvert, Cincinnati, O.
Princeton Sheet Metal Works (Corrugated Metal, made from "American Ingot Iron"), Princeton, Ind.
Red Oak Bridge Co., Red Oak, Iowa
Ritchie Corrugated Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Muscatine, Ia.
Road Supply & Metal Co. (Corrugated Metal, made from "American Ingot Iron"), Topeka, Kans.
Rogers, W. K. Co. (Corrugated Iron), Houston, Texas
**SCOTT ROOFING & MFG. CO. (Corrugated Metal), 408 Culvert, Cincinnati, O.** (See adv. index & branch offices, end of book)
Security Vault & Metal Works (Corrugated Metal, made from "American Ingot Iron"), Portland, Oreg.
Sioux Falls Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Sioux Falls, S. Dak.
Spencer, J. N. (Corrugated Metal, made from "American Ingot Iron"), Harve de Grace, Md.
Tennessee Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Nashville, Tenn.
Texas Tank & Culvert Co., Fort Worth, Tex.
Utah Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Woods Cross, Utah
Virginia Metal Culvert Co. (Corrugated Metal, made from "American Ingot Iron"), Roanoke, Va.
Warsaw-Wilkinson Co. (Steel), Warsaw, N. Y.
Western Metal Mfg. Co. (Corrugating Metal, made from "American Ingot Iron"), El Paso, Tex.
Winamac Bridge Co. (Iron), Winamac, Ind.
Wisconsin Culvert Co., Madison, Wis.
Wylie & Co. (Inc.) (Corrugated), Oklahoma City, Okla.

## 2585— Cupels

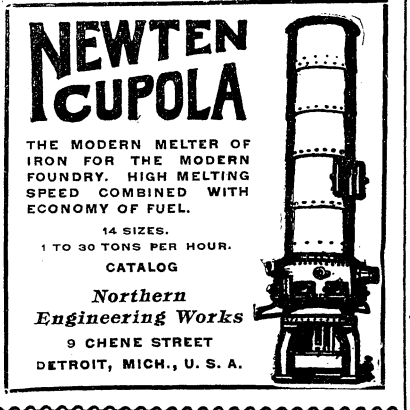
Denver Fire Clay Co. ("Casite"), Denver, Colo.

## 2586—Cupola Linings or Blocks)

Ashland Fire Brick Co., Ashland, Ky.
Berry, Jas. E., Woodbridge, N. J.
Brighton Fire Brick Co., New Brighton, Pa.
Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
Buckeye Fire Clay Co., Uhrichsville, O.
Chicago Retort & Fire Brick Co., 115 Adams, Chicago, Ill.
Columbia Fire Brick Co., Canton, O.
Cooper, Jno., 396 Oakland, Brooklyn, N. Y.
**Denny-Renton Clay & Coal Co., Seattle, Wash.**
Denver Fire Clay Co., Denver, Colo.
Didier-March Co., 30 Church, New York; Works: Keasby, N. J.
Evens & Howard Fire Brick Co., St. Louis, Mo.
Fiske & Company (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York
**Garfield Fire Clay Co., Robinson, Pa.**
Gautier, J. H. & Co., Jersey City, N. J.
Gladding, McBean & Co., San Francisco, Cal. Works: Lincoln, Cal.
**HARBISON-WALKER REFRACTORIES Co., Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**Howard Co., New Haven, Conn.**
Laclede-Christy Clay Products Co., St. Louis Mo.
**McLEOD & HENRY CO. (Steel Mixture), Troy, N. Y.** (See adv. index, end of book)
**MAURER, HENRY & SON, 420 E 23d, New York.;** Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)
**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices. end of book)
Mutton Hollow Fire Brick Co., Woodbridge, N. J.
**NATIONAL FIRE PROOFING CO., Fulton bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Ohio Fire Brick Co., Oak Hill, O.
Ostrander Fire Brick Co., Troy, N. Y., & Ostrander, N. J.
Parker-Russell Mining & Mfg. Co., St. Louis, Mo.
Penn, Wm., Silica Works (Mica, Schist Rock), William Penn P. O., Phila., Pa.
Portsmouth Refractories Co., Portsmouth, O.
Presbrey Stove Lining Co., Taunton, Mass.
Remmey, Richard Sons Co., Hedley & Del River, Phila., Pa.
St. Louis Vitrified & Fire Brick Co., St. Louis, Mo.
Southern Fire Brick & Clay Co., 138 Wash'n. Chicago, Ill. Works, Mount Silica, Ind.
Superior Fire Lining Co., Trenton, N. J.
Valentine, M. D. & Bro., Woodbridge, N. J.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 2587— Cupolas (Foundry)

Bigelow Co., New Haven, Conn.
Barry & Zecher Co. ("Zecher"), Lancaster, Pa.
Byram & Co. ("The Colliau"), Detroit, Mich.
Casey-Hedges Co., Chattanooga, Tenn.
Connelly, D., Boiler Co., Cleveland, O.
Connery & Co., 9th & Master, Phila., Pa.
Detroit Foundry Supply Co ("Crandall"), Detroit, Mich
Etting, E. J. ("E. J. E."), Land Title bldg, Philadelphia, Pa



Hibbs, E. A., 209 Quarry, Phila., Pa.
McCormick, J. S. Co., Pittsburg, Pa.
McNeil, Jas. & Bro. Co., Pittsburg, Pa.
Meehan Boiler & Construction Co., Lowellville, O.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Paxson, J. W. Co. ("The Paxson-Colliau"), 1021 N Delaware av, Phila., Pa.
Riter-Conley Co., Pittsburg, Pa., & 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
Sotter Bros., Pottstown, Pa.
Stewart, C. Boiler Works, Worcester, Mass.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices. end of book)

## 2587a—Cupolas ("The Newton")

**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices. end of book)

## 2587b—Cupolas ("The Whiting")

**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 2588— Cupro-Vanadium

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 2589— Cups (Aluminum)

Hero Mfg. Co., Gaul & Adams, Phila., Pa.

## 2590— Cups (Butter)

**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 2591—Cups (Collapsible Drinking)

Hero Mfg. Co. ("Hero" Aluminum), Gaul & Adams, Phila., Pa.

## 2592— Cups (Elevator)

Clark, W. J. Co., Salem, O.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Nordyke & Marmon Co. (Tin & Sheet Iron), Indianapolis, Ind.
Taylor Iron & Steel Co., High Bridge, N. J.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 2593—Cups (Force, Rubber)

Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Elkhart Rubber Works, Elkhart, Ind.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hodgman Rubber Co., 806 B'way, New York
Knapp Mfg. Co., 20 Warren, New York
Mattson Rubber Co., Lodi, N. J.
Morgan & Wright (Inc.), (Plumbers'), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Schacht Rubber Mfg. Co. ("Daisy"), Huntington, Ind.

## 2594—Cups (Hand Rubber)

Elkhart Ruber Works, Elkhart, Ind.

## 2595— Cups (Leather)

Anchor Packing Co., Gtn. & Allegheny avs, Phila., Pa.
Barwood, L. J. Co. ("Barwood"), Boston, Mass.
Houghton, E. F. & Co. ("Vici" Hydraulic, etc.), 240 Somerset, Phila., Pa.
Judd & Leland Mfg. Co. Clifton Springs, N. Y.
Page Belting Co., Concord, N. H.
Phoenix Specialty Mfg. Co., Centre & Duane, New York
Schieren, Chas. A. & Co., 30 Ferry, New York
Whittlesey's, H. E. Sons (Steam Pump, etc.), Corry, Pa.

## 2596— Cups (Measuring)

Hero Mfg. Co. (Aluminum), Gaul & Adams, Phila., Pa.

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## 2597— Cups (Paper)

American Water Specialty Co., 231 Causeway, Boston, Mass

## 2598—Cups (Plumbers' Soil)

**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Knapp Mfg. Co., 20 Warren, New York
Osborne, C. S. & Co., Harrison, N. J.
Phoenix Specialty Mfg. Co., Centre & Duane, New York
Sayre, L. A. & Co., Newark, N. J.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 2599— Cups (Priming)

Imperial Brass Mfg. Co. (For Automobile & Motor Boat), 444 S Jefferson, Chicago, Ill.
**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO. (For Automobiles),** 227 Campbell av, Detroit, Mich. (See adv. index, end of book)
Roberts Brass Mfg. Co., Detroit, Mich.

## 2600— Curbing (Vitrified)

American Sewer Pipe Co., Akron, O.

## 2601— Curbing (Well)

Harry, O. K. Steel Works **(Corrugated Steel), Dallas, Tex.**

## 2602— Curbs (Valve)

American District Steam Co. **(Cast Iron for Steam Underground Work), North Tonawanda, N. Y.**
Central Station Steam Co. (Manhole), Detroit, Mich.

## 2602a—Curbs (Well, Wyckoff)

**WYCKOFF, A. & SON CO., Elmira,** N. Y., & Alexandria, La. (See adv. index end of book)

## 2603— Currycombs

Advance Mfg. Co. ("Hunter", Perfect Clean), Racine Junction, Wis.
Bailey, C. J. & Co. ("Black Beauty", Rubber), Boston, Mass.
Clean Comb Co. ("Clean"), Racine, Wis.
Decker Mfg. Co. ("Arc Spring"), Keokuk, Ia.
Fernald Mfg. Co., North East, Pa.
Fitch, W. & S., New Haven, Conn.
Gibbs Mfg. Co., Canton, Ohio
Hills, Edwin, Plainville, Conn.
Holgate Bros. Co. (Wooden), Kane, Pa.
Imperial Bit & Snap Co. ("Advance"), Racine, Wis.
Jackes-Evans Mfg. Co., St. Louis, Mo.
Kohler, F. E. & Co. ("Kohler", All Steel or Brass), Canton, O.
Mathews & Willard Mfg. Co., Waterbury, Conn.
New York Stamping Co. ("Eclipse", "Reform"), N 11th & Berry, Brooklyn, N. Y.
**NIAGARA FALLS METAL STAMP**ing Works, Niagara Falls, N. Y. (See adv. index, end of book)
Phoenix Hardware Mfg. Co., Homer, N. Y.
Queen Mfg. Co., Webster City, Ia.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Richards Mfg. Co., Bloomsburg, Pa.
Southington Hardware Co., Southington, Conn.
Sundries Mfg. Co., South Bend, Ind.
Union Furnace Mfg. Co., Union Furnace, Pa.
Williamsport Staple Co., Williamsport, Pa.

## Curtains (Car)

(See Car Curtains & Materials)

## 2604—Curtains (Locomotive Cab)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)

## 2605— Curtains (Rubber Bath)

Empire Rubber Co., 126 W 22d, New York
Goodyear India Rubber Glove Mfg. Co., 503 Bway, New York
Goodyear Rubber Co., 787 B'way, New York
Hodgman Rubber Co., 593 B'way, New York
Kleinert, I. B. Rubber Co., 725 B'way, New York

## 2606—Curtains (Steel Rolling)

**KINNEAR MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**WILSON, JAS. G. MFG. CO., Chief** Office, 3 W 29th, New York. **Mills & Factory, Norfolk, Va.** (See adv. index, end of book)

## 2607—Cushions (Billiard & Pool Table)

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co., Bloomfield, N. J.
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)

## 2608—Cushions (Canvas, Outing)

Union Mfg. Co., Columbus, Ohio

## 2609—Cushions (Engine & Caboose)

Cincinnati Cushion Co., Cincinnati, O.

## 2610— Cushions (Heel)

Gilbert, E. T. Mfg. Co., Rochester, N. Y.

## 2611—Cushions (Telephone Receiver)

Holtzer-Cabot Elec. Co., Brookline, Mass.
Huron Rubber Co., Cleveland, O.

## 2612— Cuspidors

Aldrich Mfg. Co. (Brass), Buffalo, N. Y.
Allen, W. D. Mfg. Co. (Brass), 151 Lake, Chicago, Ill.
Aluminum Co. of Am. (Aluminum), Pittsburg, Pa.
American Metal Ware Co. (Brass), 368 W. Huron, Chicago, Ill.
**ARCADE MFG. CO. ("Arcade", Brass** Cast), Freeport, Ill. (See adv. index, end of book)
Atlantic Stamping Co. ("Atlantic", Galvanized Iron), Rochester, N. Y.
Bridgeport Brass Co. (Brass & Self Righting), Bridgeport, Conn.
Buffalo Mfg. Co. (Brass, etc.), Buffalo, N. Y.
Cartwright Bros. Co. (White Earthenware), E. Liverpool, O.
Central Stamping Co. (Cast Iron, Enameled Inside, Brass, Nickel-Plated & Nickel-Plated Tin), 174 Fulton, New York
Cheney, S. & Son (Cast Iron), Manlius, N. Y.
Clark, A. C. & Co. (Brass Fountain Spittoons), 1035 E 75th, Chicago, Ill.
Columbian Engineering & Stamping Co. (Enameled Iron), Terre Haute, Ind.
Dover Stamping & Mfg. Co. (Cast Iron, Porcelain-Lined, Self-Righting; also Tin, Various Colors), Cambridge, Mass.
Excelsior Brass Works, Reading, Pa.
Geuder, Paeschke & Frey Co. (Japanned & Enameled), Milwaukee, Wis.
**GOODRICH, B, F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
Goodyear Rubber Co. (Rubber), 787 B'way, New York
Gould-Mersereau Co. (Brass), 43 E 19th, New York
Hauck-Seebach Co. (Brass, etc.), 295 Essex, Brooklyn, N. Y.
Hews, A. H. & Co. (Earthenware), Cambridge, Mass.
Ideal Register & Metal Furniture Co. (Brass), Detroit, Mich.
Illinois Pure Aluminum Co. (Aluminum), Lemont, Ill.
Indiana Foundry Co. (Cast Iron), Indiana, Pa.
Ireland & Matthews Mfg. Co. (Brass & Nickel, Self-Righting), Detroit, Mich.
Lalance & Grosjean Mfg. Co. (Enameled), 299 B'way, New York
Lisk Manufacturing Co. (Ltd.) ("Lisk" Enameled), Canandaigua, N. Y.
McCormick Mfg. Co. (Brass, Nickel Self-Righting), Dayton, O.
McKenna Bros. Brass Co. (Brass, etc.), Pittsburg, Pa.
Manhattan Brass Co. (Brass), 358 E 28th, New York
Manning, Bowman & Co. (Brass, Nickeled, Enamel & Tin), Meriden, Conn.
Marietta Hollow Ware & Enameling Co. (Enameled), Marietta, Pa.
Midland Metal Co. (Brass, Bronze & Plated), 21st & Jefferson, Philadelphia, Pa.
New Castle Stamping Co. (Enameled Steel), New Castle, Pa.
New England Enameling Co. ("Ideal", Enameled Ware), Middletown, Conn.
New York Stamping Co., N 11th & Berry, Brooklyn, N. Y.
Peters & Reed Pottery Co. (Terra Cotta Hand Painted), Zanesville, O.
Ray, Geo. A. Mfg. Co. (Brass & Copper), Buffalo, N. Y.
Republic Metalware Co. (Aluminum), Buffalo, N. Y.
Rochester Stamping Co. (Enameled Metal), Rochester, N. Y.
Rome Mfg. Co. (Brass & Copper), Rome, N. Y.
Rostand Mfg. Co. (Brass, German Silver, Nickel & Bronze), Milford, Conn.
Scoville Mfg. Co. (Brass), Waterbury, Conn.
St. Louis Brass Mfg. Co. (Brass), St. Louis, Missouri
South Bend Foundry Co. (Cast Iron, Movable Top), South Bend, Ind.
Sturges & Burn Mfg. Co. (Brass), Chicago, Ill.
Sweeney, W. H. Mfg. Co. (Nickeled, Brass & Tin & Self-Righting, etc.), Brooklyn, N. Y.
Sweet, A. L. Iron Works (Cast Iron), Medina, N. Y.
Tatum, Sam'l C. Co. (Self-Righting Polished Brass & Cast Iron), Cincinnati, Ohio
Thompson, S. C. Pottery Co. (Porcelain), East Liverpool, O.
Turner Brass Works (Brass), Sycamore, Ill.
United Indurated Fibre Co. of N. J. ("Fibrotta" Indurated Fibre), Lockport, N. Y.
Vogel, Wm. & Bros. (Nickel Plated Steel & Copper with Removable Hopper), 37 S 9th, Brooklyn, N. Y.
Vollrath, J. J. Mfg. Co. ("Vollrath", Seamless Steel & Cast Iron), Sheboygan, Wis.
Wagner Mfg. Co. (Aluminum), Sidney, O.
Weller Hardware & Foundry Co. (Cast Iron), Horseheads, N. Y.

## 2613— Cutlery Mfrs.

Acme Shear Co. (Shears, Scissors, etc.), Bridgeport, Conn.
American Cutlery Co. (Table Cutlery), 76a Mather, Chicago, Ill.
American Shear & Knife Co. (Pocket Cutlery, Shears, etc.), Hotchkissville, Conn.
American Silver Co. (Table Cutlery), Bristol, Conn.
**AMERICAN TAP & DIE CO. (Carvers,** Table Knives, Silver Plated, etc.), Greenfield, Mass. (See adv. index, end of book)
Associated Silver Co. ("Yourex" Specialties), 40 Dearborn, Chicago, Ill.
Bannister, A. F. & Co. (Pocket, etc.), Newark, N. J.
Bison Mfg. Co. (Razor Strops, Cutlery Specialties), Little Valley, N. Y.
Booth Bros., Sussex, N. J.
Camillus Cutlery Co., Camillus, N. Y.
Canton Cutlery Co. ("C. C. Co." Pocket Knives, High Grade, Transparent Handle Pocket Knives, Razors, Shoe Buttoners, Ink Erasers, etc.), Canton, O.
Carrier Cutlery Co., Elmira, N. Y.
Case Bros. Cutlery Co., Little Valley, N. Y.
Case, Jno. D. Sons Co., Kane, Pa.
Case, W. R. & Sons Cutlery Co., Bradford, Pa.
Cattaraugus Cutlery Co. (Pocket), Little Valley, N. Y.
Challenge Cutlery Corporation (Pocket Knives & Razors), Bridgeport, Conn.
Chatillon, Jno. & Sons (Pocket Knives, "Fulton" Brand), 85 Cliff, New York
Christy Knife Co. (Bread, Cake, Ham & Kitchen Knives, Druggists' Spatulas & Lemon Slicers), Fremont, O.
Clauss Shear Co., Fremont, O.
Clayton Bros., Bristol, Conn.
Clement Mfg. Co., Northampton, Mass.
Clyde Cutlery Co. (Butcher, Bread & Kitchen Knives, etc.), Clyde, O.
Columbian Cutlery Co. (Butcher & Carving Knives, etc.), Reading, Pa.
Crandall Cutlery Co., Bradford, Pa.
Cronk & Carrier Mfg. Co. (Pocket Knives, Shears, Scissors, etc.), Elmira, N. Y.

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Divine, Dwight & Son (Pocket & Fine Pen Knives), (Trade Mark, "Ulster Knife Co." & "Ellenville Knife Co."), Ellenville, N. Y.
Electric Cutlery Co. (Pocket Cutlery, Razors, Shears, etc.), 25 Hackett, Newark, N. J.
Empire Knife Co. (Pocket Cutlery), Winsted, Conn.
Foster Bros. & Chatillon Co. (Pocket, Kitchen & Butchers' Cutlery), Fulton, N. Y.
Fremont Crescent Metal & Mfg. Co., Fremont, Ohio
Geneva Cutlery Co. ("Razors"), Geneva, N. Y.
Goodell Co. (Carving & Table Cutlery), Antrim, N. H.
Harrington Cutlery Co. ("Dexter," Butcher, Cheese, Shoe, Bread & Kitchen, etc.), Southbridge, Mass.
Havell Mfg. Co. (Metal Goods), Newark, N. J.
Heinrich's, R. Sons Co. (Shears, etc.), New-
Henkel Co., Fremont, Ohio ark, N. J.
Herbrand Co., Fremont, Ohio
Holley Mfg. Co. (Pocket), Lakeville, Conn.
Hulbert, E. S. & Co., Bernardston, Mass.
Humason & Beckley Mfg. Co. (Pocket), New Britain, Conn.
International Cutlery Co., Fremont, O.
International Silver Co. (Silver Plated, etc.), Meriden, Conn.
Jackson Shear & Razor Co., Fremont, O.
Kastor, A. & Bros. ("Camillus", "W. H. Morley & Sons"), 109 Duane, New York
Kimball, C. J. Co. (Kitchen, Butchers', Shoe & Drawing Knives, etc.), Bennington, N. H.
Knickerbocker Mfg. Co. (Knives, etc.), Belleville, N. J.
Korn, Geo. W. Razor Mfg. Co. (Razors, Straps & Hones), Little Valley, N. Y.
Lamson & Goodnow Mfg. Co. (Table Cutlery, Carvers, Butchers', Painters', & Druggists' Knives), Shelbourne Falls, Mass.
Landers, Frary & Clark (Pearl, Ivory & Celluloid Handle Table Cutlery, Carving Sets, etc.), New Britain, Conn.
Lothrop, H. A. Mfg. Co. (Bread Knives, etc.), Sharon, Mass.
Marble Arms & Mfg. Co. (Pocket & Hunting Knives, Pocket Axes, etc.), Gladstone, Michigan
Meriden Cutlery Co. (Cheese, Bread, etc.), Meriden, Conn.
Miller Bros. Cutlery Co. (Pocket, etc.), Meriden, Conn.
Morris Cutlery Co., Morris, Ill.
Murphy, Robt & Sons, Ayer, Mass.
Napanoch Knife Co. (Pocket), Napanoch, N. Y.
New York Knife Co. (Pocket Knives & Table Cutlery), 225 5th av, New York. Works, Walden, N. Y.
Northampton Cutlery Co. (Table Cutlery), Northampton, Mass.
Northfield Knife Co. (Pocket Cutlery, Shears, etc.), Northfield, Conn.
Novelty Cutlery Co. (Pocket Knives, Razors, Folding Scissors, Ink Erasers, Dirk Knives. Letter Openers, Shoe Buttoners, Scalpel Lances, Souvenir Knives, etc.), Canton, O.
O. S. T. Cutlery Co., Newark, N. J.
Ontario Knife Co. (Also Tools). Franklinville, N. Y.
Philadelphia Novelty Mfg. Co. (Cutlery Novelties), N 13th & Noble, Phila., Pa.
Robeson Cutlery Co. (Pocket, etc.), Rochester, N. Y.
Rogers, Wm. A. (Ltd.), Northampton, Mass.
Ross, Jos., Jr. & Co. (Corn, Knives, Ink Erasers, etc.), Irvington, N. J.
Russell, Jno. Cutlery Co. (Carvers, Table Cutlery, etc.), Turners Falls, Mass.
Schatt & Morgan Cutlery Co. (Pocket Knives. Razors & Shears), Titusville, Pa.
Schmid, Jno. M. & Son, Providence, R. I.
Schnefel Bros., Newark, N. J.
Silver Plate Cutlery Co. (Electro Silver Plated Table Cutlery), Shelton, Conn.
SMITH & HEMENWAY CO. (Also Importers), 150 Chambers, New York. (See adv. index, end of book)
Sperry & Alexander Co. ("Century", Pocket Knives, etc., Also Importers), 20 Warren, New York
Tuck Mfg. Co. (Shoe & Banana Knives, etc.), Brockton, Mass.
Union Cutlery Co. (Razors, etc.), Tidioute, Pa.
Union Cutlery & Hardware Co. (Knives & Forks), Unionville, Conn
United States Cutlery Co., Fremont, Ohio
Valley Forge Cutlery Co., Newark, N. J.
Walden Knife Co. (Press-Button Pocket Knives), Walden, N. Y.
Wallace, R. & Sons Mfg. Co. (Silver Plated Table Cutlery, etc.), Wallingford, Conn.
Washington Cutlery Co., Watertown, Wis.
Waterville Cutlery Co. (Shears, etc.), Waterville, Conn.
White, Ira F. & Son Co., Bloomfield, N. J.
Williams Bros. Mfg. Co. (Silver Plated Table Cutlery, etc.), Naubuc, Conn.
Wiss, J. & Sons Co. (Shears, Scissors, Razors, etc.), Newark, N. J.
Woodworth Knife Works, Nunda, N. Y.
Wyoming Cutlery Co., Wilkes-Barre, Pa.

## 2614—Cut-Offs (Rain Water)

BERGER MFG. CO., Canton, O. (See adv. index & branch offices, end of book)
Burger Bros. Co., 233 Arch, Phila., Pa.
Canton Mfg. Co., Canton, O.
Chattanooga Roofing & Fdry Co. ("Perfection"), Chattanooga, Tenn.
EDWARDS MFG. CO., Cincinnati, O. (See adv. index & branch offices, end of book)
Eller, J. H. Mfg. Co., Canton, O.
Messenger & Parks Co., Aurora, Ill.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Sullivan-Geiger So. ("Centennial"), Indianapolis, Ind.
Wheeling Corrugating Co., Wheeling, W. Va.

## 2615—Cut-Outs (Arc Light)

Bernard, E. G. Co. ("Powers"), Troy, N. Y.
Brady, T. H., New Britain, Conn.
Bryant Electric Co. ("Bryant-Cleveland"), Bridgeport, Conn.
Cutter, Geo. Co., South Bend, Ind.
Fort Wayne Electric Works ("Wood"), Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
JOHNS, H. W.-MANVILLE CO., 100 William, New York. (See adv. index & branch offices, end of book)
Lundin Electric & Machine Co., Boston, Mass.
Philadelphia Electrical & Mfg. Co., 1228 N 31st, Phila., Pa.
Wurdack, Wm. Electric Mfg. Co., St. Louis, Mo.

## 2616— Cut-Outs (Battery)

Electric Goods Mfg. Co. (Automatic Sectional), Boston, Mass.
JOHNS, H. W.-MANVILLE CO., 100 William, New York. (See adv. index & branch offices, end of book)
Patrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Voltamp Elec. Mfg. Co., Baltimore, Md.

## 2617—Cut-Outs (Incandescent)

(Rosettes & Branch Blocks)

Arrow Electric Co., Hartford, Conn.
Bryant Electric Co. ("K-W"), Bridgeport, Conn.
Connecticut Elec. Mfg. Co., Bantam, Conn.
Crouse, Hinds Co. ("Norbitt"), Syracuse, N. Y.
Davis, M. & Sons (Incandescent), Salem, O.
Empire Elec. Mfg. Co., Plainville, Conn.
Foote, Pierson & Co. (Telephone Storage Battery), 160 Duane, New York
Freeman, E. H. Elec. Co., Trenton, N, J.
GENERAL ELECTRIC CO. (Arc & Incandescent), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Gilmore Electric Co., S. B., Boston, Mass.
Gleason, E. P. Mfg. Co. (Incandescent), 37 Murray, New York
Hart Mfg. Co. ("Hartford"), Hartford, Conn.
Heineman, G. M. & Co., 500 Girard av, Phila., Pa.
Holtzer-Cabot Electric Co. (Battery, etc.), Brookline, Mass.
Ideal Switch Co., Plainville, Conn.

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

JOHNS, H. W.-MANVILLE CO., 100 William, New York. (See adv. index & branch offices, end of book)
Jordan Bros. (Splice Protectors Only), 74 Beekman, New York
Knowles, Chas. S. ("K. P.," "Moffett"), Boston, Mass.
Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
Metropolitan Engineering Co., 1250 Atlantic av, Brooklyn, N. Y.
Palste, H. T. Co. ("Shaffer," "K. W.," "P. K.," "Taplets"), Arch & 32d, Phila., Pa.
Pass & Seymour ("Little Gem"), Solvay, N. Y.
Perkins Electrical Switch & Mfg. Co. ("Thomas"), Bridgeport, Conn.
Specialty Mfg. Co. ("Permel"), Warren, Pa.
Tregoning Elec. Mfg. Co., Cleveland, O.
Trumbull Electric Mfg. Co. ("Kappa"), Plainville. Conn.
Sears, Henry D. ("Weber"), Boston, Mass.
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Worcester Electric Mfg. Co., Worcester, Mass.
Yost Elec. Mfg. Co., Toledo, O.

## 2618—Cut-Outs (Telephone)

American Electric Fuse Co., Muskegon, Mich.
JOHNS, H. W.-MANVILLE CO., 100 William, New York. (See adv. index & branch offices, end of book)
Sterling Electric Co., Lafayette, Ind.

## 2619—Cut-Outs (Transformer)

D & W Fuse Co. (Entrance, Railway Transformer), Providence, R. I.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
JOHNS, H. W.-MANVILLE CO., 100 William, New York. (See adv. index & branch offices, end of book)
Pass & Seymour, Solvay, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2620—Cutters (Angle Iron)

Buffalo Forge Co., Buffalo, N. Y.

## 2621— Cutters (Alfalfa)

Hunt, Gilbert Co., Walla Walla, Wash.
Ross, E. W. Co., Springfield, O.
Silver Mfg. Co. ("Ohio Mammoth"), Salem, O.
Smalley Mfg. Co., Manitowoc, Wis.
Stearns, E. C. & Co. ("New Model"), Syracuse, N. Y.
Warsaw-Wilkinson Co. ("Climax"), Warsaw, N. Y.

## 2622— Cutters (Angular)

Barber-Colman Co., Rockford, Ill.
Becker Miling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
CLEVELAND TWIST DRILL CO., Lakesids av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M., Tolland, Conn.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
NATIONAL TOOL CO., Cleveland, O. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Pratt & Whitney Co., Hartford, Conn.
STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)
Surerus & Greenhill, 502 W Division, Chicago, Ill.
Union Twist Drill Co., Athol, Mass.

## 2623—Cutters (Arc Lamp Carbon)

Hagstrom Bros. Mfg. Co., Lindsborg, Kans.
Lundin Elec. & Machine Co., Boston, Mass.
SMITH & HEMENWAY CO. ("S & H" Co.", Carbon & Porcelain), 150 Chambers, New York. (See adv. index, end of book)

## 2624— Cutters (Axle)

Buffalo Forge Co., Buffalo, N. Y.
Butterfield & Co., Derby Line, Vt.
Holroyd & Co., Waterford, N. Y.
Keller Mfg. Co. ("Keller"), Sauk Center, Minn.
PELS, HENRY & CO. (Unbreakable Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

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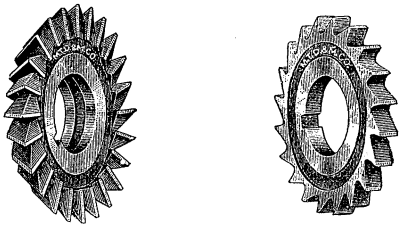
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**MORSE TWIST DRILL & MACHINE COMPANY,**

**NEW BEDFORD, MASS., U. S. A.**

"MORSE"



CUTTERS

## Cutters (Belt)

(See Belt Cutting Machines)

## 2625— Cutters (Biscuit)

Lasher Mfg. Co. (Rotary), Davenport, Ia.

## Cutters (Boiler Tube)

(See Cutters, Flue)

## 2626— Cutters (Bolt)

**Acme Machinery Co., Cleveland, O.**
**Box, Alfred Co. (With Multiple Dies), 813 N Front, Phila., Pa.**
Boynton & Plummer **(Hand & Power), Worcester, Mass.**
Brown, H. B. Co. ("Merriman"), East Hampton, Mass.
Chambers Bros. Co. ("Chambers" Open Side), 52d below Lancaster av, Philadelphia, Pa.
**Dedrick & Harvey Machine Co., Baltimore, Md.**
**Foote-Burt Co. ("Reliance"), Cleveland, O.**
Haberle, J. B. (Becher Open Die Head), **South Bend, Ind.**
Irving Mfg. & Tool Co., 169 Chambers, New
Landis Machine Co., Waynesboro, Pa. **York**
Mummert, Wolf & Dixon Co. ("Plurality" Die Bolt), Hanover, Pa.
**National Machinery Co., Tiffin, O.**
**New Haven Mfg. Co., New Haven, Conn.**
Newton Machine Tool Works, 2347 Vine, Phila, Pa.
**Niles-Bement-Pond Co., 111 B'way, New York**
Peck, Stow & Wilcox Co. ("Plurality" Compound Lever Hand), Southington, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**Pratt & Whitney Co. (Turret), Hartford, Conn.**
**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)**
**Putnam Machine Co., Fitchburg, Mass.**
**Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.**
Standard Machinery Co. **(Single & Double** Head), Bowling Green, O.
Webster & Perks Tool Co., Springfield, O.
**WELLS BROS. CO. ("Little Giant,"** Bench Hand), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Green River" Hand **Bolt Cutter & Nut Tapper), Greenfield, Mass.**

## 2627— Cutters (Bone)

Adams Steel & Wire Works, Joliet, Ill.
Frazer Bros. Co., Adams, N. Y.
Hannun, H. A., Cazenovia, N. Y.
Humphrey & Sons, Joliet, Ill.
Mann, F. W. Co. (For Poultry Food), Milford, Mass.
**Perkins Wind Mill Co., Mishawaka, Ind.**
Standard Bone Cutter Co., Milford, Mass.
Stearns, E. C. & Co. (Power or Hand), Syra-
Stratton Mfg. Co., Erie, Pa. cuse, N. Y.
**Wilson Bros. ("Crown"), Easton, Pa.**

## 2628— Cutters (Bread)

(See also Slicers)

Buffalo Specialty Co. (Lightning), Buffalo, N. Y.
Enterprise Mfg. Co. of Pa., 3d & Dauphin, Philadelphia, Pa.
Handy Things Co., Ludington, Mich.
Thurmauer, G. M. & Bro., 83 Worth, New York

## 2629—Cutters (Brick & Drain Tile)

Arnold-Creager Co., New London, O.
Bonnot Company (Revolving), Canton, O.
Brewer, H. & Co., Tecumseh, Mich.
Cox, Geo. S., East Liverpool, O.
Freese, E. M. & Co. (Automatic Brick), Galion, O.
**MARION MACHINE FOUNDRY &** Supply Co., Marion, Ind. (See adv. index, end of book)

## 2630—Cutters (Button Hole)

Compton, W. H. Shear Co. ("Compton"), Newark, N. J.
Eyelet Tool Co., Boston, Mass.
Heinesch's, R. Sons Co., Newark, N. J.
Kraeuter & Co., Newark, N. J.
National Cutlery Co. ("National"), Westmoreland & Boudinot, Phila., Pa.
Wiss, J. & Sons Co. ("Bauers"), Newark, N.J.

## 2630a—Cutters (Cabbage Core, Etc.)

Smith's, Jno. E. Sons Co., Buffalo, N. Y.

## Cutters (Card)

(See Card Cutting Machines; For Page Number Consult Index of Contents)

## 2631—Cutters (Cast Iron Pipe)

**Ellis-Ford Mfg. Co., Detroit, Mich.**
**Smith, A. P. Mfg Co., Newark, N. J.**

## 2632— Cutters (Cheese)

American Cheese Cutter Co., Anderson, Ind.
American Computing Co. **(Computing), Indianapolis, Ind.**
Anderson Computing Scale Co. (Computing), Anderson, Ind.
Anderson Tool Co. ("Dunn," Computing), Anderson, Ind.
Computing Cheese Cutter Co. (Computing), Anderson, Ind.
Enterprise Mfg. Co. **(Self-Gauging), Phila., Pa.**
Grocers Novelty Co. ("Eagle"), Indianapolis, Ind.
Ideal Mfg. Co. (Computing), Anderson, Ind.
Moneyweight Scale Co. (of Europe), Chicago, Ill.
National Specialty Mfg. Co., Sedgley av & N 18th, Phila., Pa.
Standard Mfg. Co., Auburn, Ind.
Stortz, John & Son (Revolving Table), 210 Vine, Phila., Pa.

## 2633— Cutters (Cigar)

Arcade Mfg. Co. ("Champeon"), Freeport, Ill.
Bedortha, Lawrence L., Windsor, Conn.
Billings & Spencer Co., Hartford, Conn.
Bridgeport Hardware Mfg. Co. **("Medallion"), Bridgeport, Conn.**
Brunhoff Mfg. Co. **(Cutter & Lighter Combined), Cincinnati, O.**
Erie Specialty Co., Erie, Pa.
Fremont Crescent Metal & Mfg. Co., **Fremont,**
Havell Mfg. Co., Newark, N. J. **Ohio**
National Selling Co., Allentown, Pa.
Taylor Mfg. Co., Hartford, Conn.

## 2634— Cutters (Circular)

**TRETHEWEY, SAM'L & CO., Ltd.** (For Cutting Sheet Metal, etc.), 47th, Pittsburg, Pa. (See adv. index, end of book)

## 2635—Cutters (Circular Cork or Paper)

**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## Cutters (Cloth)

(See Cutting Machines, Cloth)

## 2636— Cutters (Clover)

Humprey & Sons, Joliet, Ill.
Mann, F. W. Co., Milford, Mass.
Silver Mfg. Co. ("New Model"), Salem, O.
Smalley Mfg. Co., Manitowoc, Wis.
Wilson Bros. ("Gem"), Easton, Pa.

## 2637—Cutters (Cocoanut)

**Hillyard & Co., 75 Fulton, New York**

## 2638—Cutters (Convex & Concave)

Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Clough, R. M., Tolland, Conn.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 2639—Cutters (Core Wire)

**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 2640—Cutters (Corner Rounding)

**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)

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## 2641– Cutters (Doughnut)

Lasher Mfg. Co. (Rotary), Davenport, Ia.

## 2642– Cutters (Drawer Construction)

Bedin, Ekstrom & Co. ("Rockford" for Tenoning Machines), Rockford, Ill.

## 2643–Cutters (Emery Wheel Dresser)

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 2644– Cutters (Ensilage)

Appleton Mfg. Co., Batavia, Ill.
Belle City Mfg. Co., Racine, Wis.
Comstock, Geo. S. ("Safe Lion"), Mechanicsburg, Pa.
Connor, J. W. & Son (Cutter & Swivel Carrier), Orangeville, Pa.
Dick, Jos. Mfg. Co. (Inc.), Canton, O.
Eagle Machine Co., Lancaster, O.
Emeny, G. J. Co. ("Kendrick"), Fulton, N. Y.
Farmers' Handy Wagon Co. ("Whirlwind"), Saginaw, Mich.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gehl Bros. Mfg. Co., West Bend, Wis.
Globe Foundry & Machine Co., Sheboygan, Wis.
Hamachek, Frank, Kewaunee, Wis.
Heebner & Sons, Lansdale, Pa.
Lyon Iron Works, Greene, N. Y.
Messenger Mfg. Co., Tatamy, Pa.
Papec Machine Co., Shortsville, N. Y.
Ross, E. W. Co., Springfield, O.
Rowell, I. B. Co. (With Chain Elevator or Blower), Menomonee Falls, Wis.
St. Albans Foundry & Implement Co., St. Albans, Vt.
Silver Mfg. Co. ("Ohio" Power), Salem, O.
Smalley Mfg. Co., Manitowoc, Wis.
Star Mfg. Co. (& Carriers), Carpentersville, Ill.
Warsaw-Wilkinson Co., Warsaw, N. Y.
Wilder-Strong Implement Co., Monroe, Mich.

## 2645–Cutters (Face Milling)

Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co. (With Inserted Teeth), Hyde Park, Mass.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Harrison & Knight Mfg. Co. (High Speed Combined Roughing & Finishing), Newark, N. J.
**MORSE TWIST DRILL & MACHINE** Co. (With Inserted Teeth), New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 2646– Cutters (Feed)

(See also Cutters, Alfalfa; also Cutters, Fodder)
Albright, J. H. & Son, Mifflinburg, Pa.
Ames Plow Co., Boston, Mass.
Ann Arbor Machine Co., Ann Arbor, Mich.
Appleton Mfg. Co., Batavia, Ill.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Belle City Mfg. Co., Racine, Wis.
Buck's, A. Sons Co., Elizabethtown, Pa.
Challenge Co., Batavia, Ill.
Comstock, Geo. S. ("K. D." & "O. K."), Mechanicsburg, Pa.
Connor, J. W. & Son ("Daisy" Cutter & Crusher), Orangeville, Pa.
Dick, Jos. Mfg. Co. (Inc.), Canton, O.
Donaldson Bros., Mount Clemens, Mich.
Eagle Mfg. Co., Appleton, Wis.
Ellis Keystone Agricultural Works ("Keystone" Ensilage & Feed Cutter), Pottstown, Pa.
Eureka Mower Co., Utica, N. Y.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Foster & Williams Mfg. Co., Racine, Wis.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gehl Bros. Mfg. Co., West Bend, Wis.
Glascock Stove & Mfg. Co., Greensboro, N. C.
Globe Foundry & Machine Co. (With or Without Blower Elevator), Sheboygan, Wis.
Gowanda Agr'l Works (Hand), Gowanda, N. Y.
Hamachek, Frank, Kewaunee, Wis.
Hartford Plow Co., Hartford, Wis.
Heebner & Sons, Lansdale, Pa.
Hench & Dromgold Co., Inc., York, Pa.
Hocking Valley Mfg. Co., Lancaster, O.
Keystone Farm Machine Co. (Hand or Power), York, Pa.
Lehr Agricultural Co., Fremont, O.
Lyon Iron Works, Greene, N. Y.
Messinger Mfg. Co. (Hand & Power), Tatamy, Pa.
Moore Plow & Implement Co., Greenville, Mich.
Ohio Implement Co., Bowling Green, O.
Papec Machine Co., Shortsville, N. Y.
Parlin & Orendorff Co., Canton, Ill.
Perkins Wind Mill Co., Mishawaka, Ind.
Ross, E. W. Co., Springfield, O.
Rowell, I. B. & Co., Menomonee Falls, Wis.
Sellers, Edw., Oakhall Station, Pa.
Silver Mfg. Co. ("Ohio" Hand & Power Plantation, Salem, O.
Smalley Mfg. Co., Manitowoc, Wis.
Smith, D. B. & Co. (Hay), Utica, N. Y.
Spangler Mfg. Co. ("Little Giant"), York, Pa.
Star Mfg. Co., Carpentersville, Ill.
Thornburg Mfg. Co. ("Peerless" Hand Lever), Bowling Green, O.
Warsaw-Wilkinson Co., Warsaw, N. Y.
Wausau Foundry & Machine Co., Wausau, Wis.
Wayne Works, Richmond, Ind.
Weaver, Frank L., New Oxford, Pa.
Westbrooks Elevator Co., Danville, Va.
White's, S. R. Sons, Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.
Wilder-Strong Implement Co., Monroe, Mich.
Williams Bros. ("Cheap & Good"), Ithaca, N. Y.

## 2647– Cutters (Flue)

(See also Pneumatic Flue Cutters)
Ayes & Co., 1812 Ellen, Chicago, Ill.
Celfor Tool Co., Buchanan, Mich.
Faessler, J. Mfg. Co. ("Perfect"), Moberly, Mo.
Fox Machine Co., Grand Rapids, Mich.
Lagonda Mfg. Co. ("Lagonda"), Springfield, O.
Liberty Mfg. Co. (Combined Tube Cutter & Expander), Pittsburg, Pa.
Lovejoy Tool Works (Hole), 335 W Ohio, Chicago, Ill.
McCrea, James & Co. ("Wernicke"), 558 W Wash'n, Chicago, Ill.
Mansfield Machinery & Supply Co. (Flue Expander & Cutter), Mansfield, O.
Murphy, Christopher & Co. ("O'Neill" Operated by Hand or Power), First Nat'l Bank bldg, Chicago,, Ill.
Niles-Bement-Pond Co., 111 B'way, New York
**RYERSON, JOSEPH T. & SON, 2558** W. 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Wiedcke, Gustav & Co. ("Wiedcke," "Ideal" & "Dayton" Self-Feed), Dayton, O.

## 2648– Cutters (Fodder)

Ames Plow Co. ("Dr. Bailey's"), Boston, Mass.
Appleton Mfg. Co., Batavia, Ill.
Belle City Mfg. Co. (Hand), Racine, Wis.
Comstock, Geo. S. ("Safe Lion"), Mechanicsburg, Pa.
Dick, Jos. Mfg. Co. (Inc.), Canton, O.
Ellis Keystone Agricultural Works ("Keystone" with Crusher Attachment), Pottstown, Pa.
Emeny, G. J. Co., Fulton, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Harrison, W. R. & Co., Massillon, O.
Lyon Iron Works, Greene, N. Y.
Messinger Mfg. Co., Tatamy, Pa.
Milwaukee Hay Tool Co., Milwaukee, Wis.
Star Mfg. Co., Carpentersville, Ill.

## 2648a–Cutters for Grooving Straight Lipped Twist Drills

**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)

## 2649–Cutters for Making Four Tipped Twist Drills

**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)

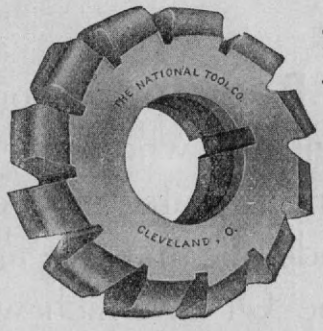
## 2650–Cutters (Formed & Formed Milling)

Barber-Colman Co., Rockford, Ill.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Taylor-Schantz Co., Rochester, N. Y.
Union Twist Drill Co., Athol, Mass.

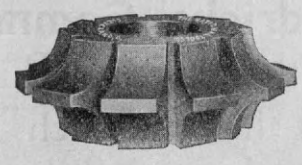
## 2651– Cutters (Fuse)

**du PONT, E. I. de NEMOURS POWder** Co. ("Du Pont"), Wilmington, Del. (See adv. index & branch offices, end of book)

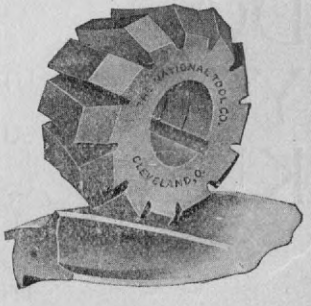

# FORMED CUTTERS




ALL KINDS and ALL STYLES



CARBON and HIGH SPEED




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THE NATIONAL TOOL CO.

CLEVELAND, O., U. S. A.


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## 2652— Cutters (Gang)

Becker Milling Machine Co., Hyde Park, Mass.
**DETROIT TWIST DRILL CO., Cleveland, O.** (See adv. index, end of book)
Ingersoll Milling Machine Co., Rockford, Ill.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of
**Pratt & Whitney Co., Hartford, Conn.** book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Surerus & Greenhill, 502 W Division, Chicago,
Union Twist Drill Co., Athol, Mass. Ill.

## 2653—Cutters (Gauge Glass)

Ashcroft Mfg. Co., 85 Liberty, New York
**Chesterton, A. W. & Co. ("McGregor" Scotch), 64 India, Boston, Mass.**
Hunt, Alex E. ("Hunt's"), Scranton, Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Monce, S. G., Unionville, Conn.
**McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich.** (See adv. index, end of book)
**Newark Brush & Scraper Co. ("Newark"), Newark, N. J.**
Pancoast, Hy. B. & Co. ("Simplex"), 243 S 3d, Phila., Pa.
**ROGERS, H. A. CO. ("Favorite"), 19** John, New York. (See adv. index, end of book)
**Skinner & Connolly ("Skinner's"), Yonkers, N. Y.**
Wilkins, Geo. H. ("Wilkins"), Greenfield, Mass.
Worcester Brush & Scraper Co. ("Fletcher," "Worcester"), Worcester, Mass.

## Cutters (Gear)

(See Gear Cutting Machines)

## 2654— Cutters (Glass)

Barrett, W. L. ("Standard", Steel Wheel), Bristol, Conn.
Brown & Dowd Mfg. Co. (Roling Steel Wheel, etc.), Meriden, Conn.
Fletcher, Terry & Co. (Interchangeable & Standard Styles, Steel Wheel), Forestville, Conn.
Goodell-Pratt Co. (With Turrett Head), Greenfield, Mass.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Millers Falls Co. ("Moritor", Steel Wheel), 28 Warren, New York. Works, Millers Fals, Mass.
Monce, S. G. ("Monce" Steel Wheel), Unionville, Conn.
New England Novelty Co. ("Woodward", Steel Wheel), Hill, N. H.
Philadelphia Novelty Mfg. Co., 420 N 13th, Philadelphia, Pa.
Pritchard Stamping Co., Rochester, N. Y.
Rocky Hill Hardware Co., Rocky Hill, Conn.
S. & I. Co. ("S. & I."), Springfield, Mass.
**SMITH & HEMENWAY CO. ("Red-Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Southington Hardware Co., Southington, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## Cutters (Glass Tube)

(See Cutters, Gauge Glass)

## 2655— Cutters (Gummer)

**Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.**
Butterfield & Co., Derby Line, Vt.
**Mixter, J. W. Saw Tool Co. ("Mixter's XX"), Plymouth, Mass.**

## 2656— Cutters (Gun Wad)

Kraeuter & Co., Newark, N. J.
Union Hardware Co., Torrington, Conn.
Wiebusch & Hilger (Ltd.) (Importers, etc.), 106 Lafayette, New York

## 2657—Cutters (Hand Hole)

**Chase Turbine Mfg. Co., Orange, Mass.**

## 2657a—Cutters (High Speed)

**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)

## 2658—Cutters (Hog Nose)

**Pratt, Wm. E. Mfg. Co. ("Dr. Millers"), 91 Lake, Chicago, Ill.**

## 2659—Cutters (Hoop Lock)

**White, L. & I. J. Co. ("Tripp's" Self-Gauge," "Penny," "Monitor"), Buffalo, N. Y.**

## 2660— Cutters (Index)

Marcy, G. D'W. (Pneumatic), **246 Summer, Boston, Mass.**
Wrigley, Thos. Co. ("Perfection"), 88 Michigan av, Chicago, Ill.

## 2661—Cutters (Inserted Teeth)

**Barber-Colman Co. (Side Milling), Rockford, Ill.**
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
**Ingersoll Milling Machine Co., Rockford, Ill.**
**MORSE TWIST DRILL & MACHINE Co. (Face & Side Milling), New Bedford, Mass.** (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Tabor Mfg. Co. (For Planing Metal), 18th & Hamitlon, Phila., Pa.
Union Twist Drill Co., Athol, Mass.

## 2662—Cutters (Insulation)

**Klein, Mathias & Sons ("Goehst"), 562 W Van Buren, Chicago, Ill.**

## 2663—Cutters (Interlocking)

**Barber-Colman Co., Rockford, Ill.**
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)

## 2664— Cutters (Involute)

**Barber-Colman Co., Rockford, Ill.**
**Becker Milling Machine Co., Hyde Park, Mass.**
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
**Union Twist Drill Co., Athol, Mass.**

## 2665—Cutters (Iron Bar & Rod)

(See also Cutters, Rod & Wire)

**Buffalo Forge Co. (Angle Iron), Buffalo, N. Y.**
Mersick, C. S. & Co., New Haven, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

## Cutters (Key-Way)

(See Key Seating Machines; also Milling Machines)

## 2666— Cutters (Kraut)

Atkins, E. C. & Co., Indianapolis, Ind.
Day, J. H. & Co. (Rower), Cincinnati, O.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Enterprise Mfg. Co. of Pa., 3d & Dauphin, Phila., Pa.
Freeman Mfg. Co. ("Star"), Kalkaska, Mich.
Handy Things Co. ("Handy"), Ludington, Mich.
Kelso & Co., 559 W Quincy, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
Lasher Mfg. Co., Davenport, Ia.
National Saw Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith's, Jno. E. Sons Co. ("Buffalo Silent", Hand or Power), Buffalo, N. Y.
Thompson, Oliver E. & Sons (Inc.) (Hand), Ypsilanti, Mich.
Thurnauer, G. M. & Bro., 83 Worth, New York
Tucker & Dorsey Mfg. Co. ("Atkins Queen"), Indianapolis, Ind.

## 2667—Cutters (Lace Leather)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Greene, Tweed & Co. ("Earle"), 109 Duane, New York

## 2668— Cutters (Lap)

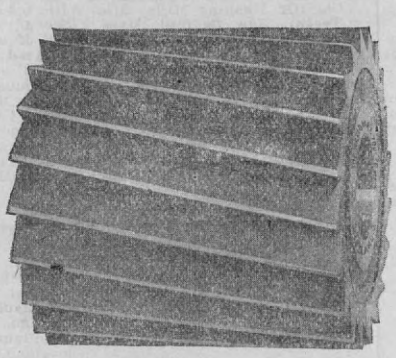
**Baldwin, Tuthill & Bolton, Grand Rapids, Mich.**

## 2669—Cutters (Lead Pipe)

**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
**Johnson Wm. (Hedenberg Works), (Plumbers'), Newark, N. J.**
Lord, L. L. Co. ("Lord"), Meadville, Pa.
Saunders', D. Sons, Yonkers, N. Y.
Vanderman Plumbing & Heating Co., Willimantic, Conn.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wolverine Brass Works, Grand Rapids, Mich.

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# MILLING CUTTERS

**High Speed and Carbon Steel**

Our Plain Milling Cutters are designed for heavy service. The teeth are strong and well proportioned and spaced to give the best results.

These Cutters are listed in our Catalog B, which will be mailed upon request

## THE NATIONAL TOOL CO.

CLEVELAND, O., U. S. A.


## 2670–Cutters (Lock Corner Box)

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

## Cutters (Meat)

(See Choppers, Meat)

## 2671–Cutters (Metal Slitting)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
**TRETHEWEY, SAM'L & CO., Ltd.,** 47th, Pittsburg, Pa. (See adv. index, end of book)

## 2672– Cutters (Milling)

American Die & Tool Co., Reading, Pa.
Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Bliss, E. C. Mfg. Co. (High Speed), Providence, R. I.
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M. (Also Gear), Tolland, Conn.
**DETROIT TWIST DRILL CO. (Plain** & Side), Detroit, Mich. (See adv. index, end of book)
Erlandsen, Julius, 172 Centre, New York
**FRASSE, PETER A. & CO., Canal** & Sullivan, New York. (See adv. index & branch offices, end of book)
Garvin Machine Co., 137 Varick, New York
Gilford, F. E. & Son, Concord, N. H.
Huther Bros. Saw Mfg. Co. ("Rochester"), Rochester, N. Y.
Indianopolis Tool & Mfg. Co. (Formed), Indianapolis, Ind.
Ingersoll Milling Machine Co., Rockford, Ill.
**MORSE TWIST DRILL & MACHINE** Co. (For Mitre & Bevel Gears), New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO. (Nicked Tooth,** Plain, Face, etc.), Cleveland, O. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Newton Machine Tool Works (Inc.) (Perforated for Internal Lubrication), 2343 Vine, Phila., Pa.
**NUTTALL, R. D. & CO., Pittsburg,** Pa. (See adv. index, end of book)
Polk, A. J. & Son (also Side Milling), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Rogers, Jno. M. Works, Gloucester, N. J.
S. & I. Co. (Special), Springfield, Mass.
Slate, Dwight Machine Co., Hartford, Conn.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Surerus & Greenhill ("Eynon's"), 502 W Division, Chicago, Ill.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Tabor Mfg. Co. ("Taylor-Newbold" High Speed Steel), 18th & Hamilton, Phila., Pa.
Taylor-Shantz Co. (Forming & Milling), Rochester, N. Y.
Thurston Mfg. Co. (Jewelers), Providence, R. I.
Union Twist Drill Co. (Inserted Tooth), Athol, Mass.
Universal Boring Machine Co., Hudson, Mass.

## 2673– Cutters (Moulding)

**AMERICAN STEAM PUMP CO. (Solid** Steel), Battle Creek, Mich. (See adv. index, end of book)
Oldham, Joshua & Sons (Inc.), Brooklyn, N. Y.
Thomson, W. S., 418 W 27th, New York

## 2674–Cutters (Paper, Hand)

Rose, Jos. Jr. & Co., Irvington, N. J.

## 2675– Cutters (Pipe)

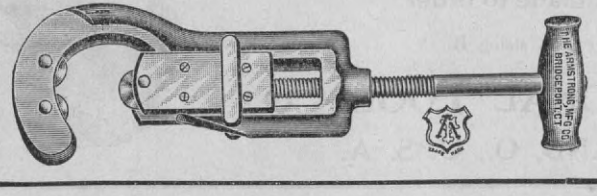
(See also Pipe Cutting & Threading Machines)
**ARMSTRONG MFG. CO., 278 Knowl**ton, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Ayes & Co. ("Saunders" Pattern), 1812 Ellen, Chicago, Ill.
Barnes Tool Co. ("Genuine Barnes"), New Haven, Conn.
**BIGNALL & KEELER MFG. CO.,** Edwardsville, Ill. (See adv. index, end of book)
Brown, H. B. Co., East Hampton, Conn.
Butterfield & Co., Derby Line, Vt.
Collmer Bros. ("Saunders' Pattern"), South Bend, Ind.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crown Die & Tool Co. ("Crown"), 105 N Canal, Chicago, Ill.
Curtis & Curtis Co., Bridgeport, Conn.
Du Charme Co. (Combination Roller Chain), Cambridge, O.
Ellis-Ford Mfg Co. ("Ellis"), Detroit, Mich.
Erie Tool Works, Erie, Pa.
Fox Machine Co., Grand Rapids, Mich.
Hollands Mfg. Co., Erie, Pa.
Keller Mfg. Co. ("Keller"), Sauk Center, Minn.
Livermore, Homer F. ("Grant"), 85 Pearl, Boston, Mass.
Mark Mfg. Co., Evanston, Ill.
Mechanicville Specialty Supply Mfg. Co. ("J. R. S. Easy" Soil Pipe), Mechanicville, N. Y.
**MURCHEY MACHINE & TOOL CO.,** ("Murchey," Rapid Roller Pipe Cutter), 52 Porter, c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)
Oswego Tool Co. ("Saunders Pattern," "Barnes" Improved Three Wheel & Oswego One Wheel, etc.), Oswego, N. Y.
Pancoast, Hy B. & Co. ("Eureka"), 243 S 3d, Phila., Pa.
Reed Mfg. Co., Erie, Pa.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Saunders, D. Sons, Yonkers, N. Y.
Smith, A. P. Mfg. Co., East Orange, N. J.
Spring Pipe Treader & Mfg. Co. ("Spring"), St. Louis, Mo.
Trimont Mfg. Co. ("Trimo"), Roxboro, Boston, Mass.
Walworth Mfg. Co. (Halls, for Cast Iron Water Mains), 136 Federal, Boston, Mass.
Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.
Williams Tool Co., Erie, Pa.

## Cutters (Pneumatic Stay-Bolt)

(See Pneumatic Staybolt Cutters)

## Cutters (Porcelain Tube)

(See Cutters, Arc Lamp Carbon)


ARMSTRONG MODEL B **PIPE CUTTER**

TWO OF THESE CUTTERS WILL DO THE WORK OF THREE ORDINARY CUTTERS

MANUFACTURED BY

**THE ARMSTRONG MFG. CO., Bridgeport, Conn.**

NEW YORK CHICAGO


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## 2676– Cutters (Potato)

Aspinwall Mfg. Co., Jackson, Mich.
Pugh, B. H. Mfg. Co., Topeka, Kans.

## 2677–Cutters (Potato Chips)

Smith's, Jno. E. Sons Co., Buffalo, N. Y.

## 2678–Cutters (Potato Seed)

Champion Potato Machinery Co. ("O. K. Champion"), Hammond, Ind.

## 2679– Cutters (Rack)

(See also Gear Cutting Machinery)

Baker Bros. ("Colburn"), Toledo, O.
Brown & Sharpe Mfg. Co., Providence, R. I.
Gay & Ward, Athol, Mass.
Putnam Machine Co., Fitchburg, Mass.
Reed, F. E. Co., Worcester, Mass.

## 2680–Cutters (Radial Duplex)

Union Twist Drill Co., Athol, Mass.

## 2681–Cutters (Rod & Wire)

Armstrong-Blum Mfg. Co. ("Marvel"), 337 N Francisco av, Chicago, Ill.
Belden Machine Co., New Haven, Conn.
Billings & Spencer Co. ("Hayden" Combined Wire Cutter & Gas Pliers, etc.), Hartford, Conn.
Braunsdorf-Mueller, Co., Elizabeth, N. J.
Bridgeport Hardware Mfg. Co. ("Keyes"), Bridgeport, Conn.
Chandler & Farquhar Co., Boston, Mass.
Cleveland Tool Co. ("Hargrave", Compound Lever Wire Cutter), Cincinnati, O.
Cronk & Carrier Mfg. Co. ("Cronk" Wire Cutter & Bender), Elmira, N. Y.
Crescent Tool Co. ("Crescent", Wire Cutter, Wrench & Screw Driver Combined), Jamestown, N. Y.
Keller Mfg. Co. ("Keller"), Sauk Center, Minn.
Kilborn & Bishop Co. (Drop Forged), New Haven, Conn.
King, J. M. Co. (Inc.), ("Button's"), Waterford, N. Y.
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)
Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.
PELS, HENRY & CO. (Unbreakable Rolled Steel Frame; Rod Cutters Only), West & Albany, New York. (See adv. index, end of book)
Robinson, M. W. Co. ("Carew's" Patent, Forged Steel), 88 White, New York
Schlueter, M. L., 103 N. Canal, Chicago, Ill.
Utica Drop Forge & Tool Co., Utica, N. Y.
Viking Shear Co. ("Viking"), Erie, Pa.

## 2682–Cutters (Roll Paper)

ARCADE MFG. CO. ("Arcade"), Freeport, Ill. (See adv. index, end of book)
Champion Paper Cutter Co., Piqua, O.
Hilts Wrench & Mfg. Co. ("New York"), "Eclipse" & "Reversible"), Richford, N. Y.
King Mfg. Co. ("Gem"), Piqua, O.
Specialty Mfg. Co., Pittsburg, Pa.
Streeter, N. R. & Co., Rochester, N. Y.
United States Paper Cutter Co., St. Louis, Mo.
West Mfg. Co., Columbus, O.
Wright Cutter Co. ("Wright", Holder & Cutter)

## 2683– Cutters (Rolling)

BIGNALL & KEELER MFG. CO., Edwardsville, Ill. (See adv. index, end of book)

## 2684– Cutters (Root)

Belle City Mfg. Co. ("Belle City"), Racine, Wis.
Donaldson Bros., Mount Clemens, Mich.
Greenville Implement Co., Greenville, Mich.
Hirsch Bros., Milwaukee, Wis.
Lane Bros. Co. ("Lane's"), Poughkeepsie, N. Y.
Silver Mfg. Co. ("Rapid"), Salem, O.
Thompson, O. E. & Son, Ypsilanti, Mich.
Whitehurst, R. W. Co., Norfolk, Va.

## 2685– Cutters (Rope)

Weisman Mfg. Co., Marshalltown, Ia.

## 2686– Cutters (Rosette)

Osborne, C. S. & Co. (Harness Makers, etc.), Harrison, N. J.

## 2687– Cutters (Rotary)

Abbe Engineering Co. (For Cutting Up Roots, Herbs, Hard Fibre, etc.), 220 B'way, New York

## 2688–Cutters (Screw Slotting)

Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Burroughs Tool Co. ("Burro"), 91 Murray.
Clough, R. M., Tolland, Conn. New York
Disston, Hy. & Sons (Inc.), Tacony, Philadelphia, Pa.
MORSE TWIST DRILL & MACHINE CO. New Bedford, Mass. (See adv. index, end of book)
NATIONAL TOOL CO., Cleveland, O. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 2689–Cutters (Segment)

Marquette, Jno. N., 507 S Eden, Baltimore, Md

## 2690–Cutters (Shear & Rod)

Merwin Mfg. Co. ("Vulcan"), Erie, Pa.

## 2691–Cutters (Side Milling)

Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Harrison & Knight (High Speed), Newark, N. J.
Ingersoll Milling Machine Co., Rockford, Ill.
MORSE TWIST DRILL & MACHINE Co. (Or Heading Mills; also With Inserted Teeth), New Bedford, Mass. (See adv. index, end of book)
NATIONAL TOOL CO., Cleveland, O. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co. (With Inserted Teeth, etc.), Athol, Mass.

## 2692–Cutters (Sleet)

(For Removing Sleet from Trolley Wires)

Electric Service Supplies Co. ("O-K"), 1020 Filbert, Phila., Pa.
Eureka Tempered Copper Co. ("Eureka"), North East, Pa.
Garton, W. R. Co. ("Sloan"), 617 W Jackson boul, Chicago, Ill.
Holland Trolley Supply Co. ("Holland"), Cleveland, O.
Matthews, W. N., & Bro. ("Matthews' O. K.") St. Louis, Mo.
NUTTALL, R. D. ("U-S"), Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)

## 2693–Cutters (Soil Pipe)

Ellis & Fort Mfg. Co. ("Ellis"), Detroit, Mich.
Mechanicville Specialty Supply Mfg. Co. ("J. R. S."), Mechanicville, N. Y.
Walworth Mfg. Co. (Also for Water Mains), Boston, Mass.

## 2694– Cutters (Solder)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## Cutters (Spiral Mill)

(See Cutters, Side Milling)

## 2695–Cutters (Spiral Plug)

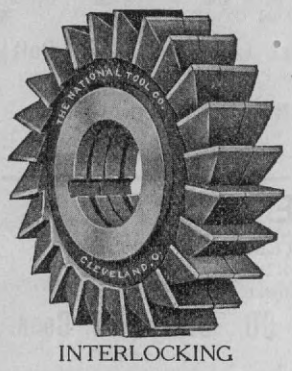
Forest City Bit & Tool Co. ("Forest City"), Rockford, Ill.

## 2696–Cutters (Sprocket)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end
NATIONAL TOOL CO., Cleveland, O. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn. of book)
STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 2697–Cutters (Sprue, Foot & Power)

Adams Company ("Steel Tubular"), Dubuque, Iowa
Barnett, Oscar Foundry Co., Newark, N. J.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

INTERLOCKING

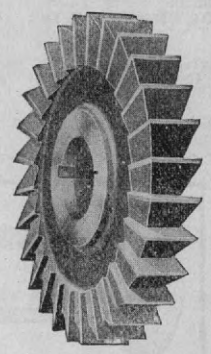
# SIDE MILLING CUTTERS

National Side Milling Cutters are guaranteed for finest work and hardest service. We carry a complete stock of both Carbon and High Speed Steel Cutters. Special sizes made to order.

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## THE NATIONAL TOOL CO.

CLEVELAND, O., U. S. A.




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Brass Founders' Supply Co. (Hand & Power for Brass Founders), Newark, N. J.
Gould & Eberhardt (or Gate), Newark, N. J.
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Middleditch, Benj., Detroit, Mich.
**NORTHERN ENGINEERING WORKS** (For Brass Founders), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Paxson, J. W. Co. ("J-W-P & Co."), Phila., Pa.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**SHUSTER, F. B. CO., (Foot & Power)** New Haven, Conn. (See adv. index, end of book)
**SMITH, J. D. FOUNDRY SUPPLY** Co., 1846 Scranton rd, Cleveland, O. (See adv. index, end of the book)
Standard Machinery Co., Providence, R. I.
**TOLEDO MACHINE & TOOL CO., Toledo, O.** (See adv. index, end of book)
Turner Machine Co., 3632 N Lawrence, Phila., Pa.
Waterbury, Farrell Foundry & Machine Co., Waterbury, Conn.

## 2698— Cutters (Stalk)

(See also Cutters, Fodder)

Avery, B. F. & Sons (Spiral or Straight Knife), Louisville, Ky.
Avery Co. ("Avery," Spiral Knife), Peoria, Ill.
Brinly-Hardy Co., Louisville, Ky.
Brown Mfg. Co., Zanesville, O.
Case, J. I. Plow Works, Racine, Wis.
Deere & Mansur Co., Moline, Ill.
Eagle Mfg. Co., Kansas City, Mo.
Emerson-Brantingham Co., Rockford, Ill.
Gale Mfg. Co. (Single Row), Albion, Mich.
Hartman Mfg. Co., Vincennes, Ind.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
Lehr Agricultural Co., Fremont, O.
Moline Plow Co. (Single & Double Row), Mo
Ohio Cultivator Co., Belleville, O. [illegible]
Parlin & Orendorff Co., Canton, Ill.
Peru Plow & Wheel Co. (Single & Double-Row), Peru, Ill.
Rock Island Plow Co., Rock Island, Ill.
St. Albans Foundry & Implement Co., St. Albans, Vt.
St. Joseph Plow Co. (Single & Double Row), St. Joseph, Mo
South Bend Chilled Plow Co., So. Bend, Ind.
Southern Plow Co., Columbus, Ga.
Sterling Mfg. Co., Sterling, Ill.

## 2699—Cutters (Stay-Bolt)

(See also Pneumatic Staybolt Cutters)

Foote-Burt Co. ("Reliance"), Cleveland, O.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.
Underwood, H. B. & Co., 1023 Hamilton, Philadelphia, Pa.

## 2700—Cutters (Stocking)

Becker Milling Machine Co. (For Involute Gears), Hyde Park, Mass.
Brown & Sharpe Mfg. Co. ("B. & S."), Providence, R. I.
Gould & Eberhardt, Newark, N. J.
**MORSE TWIST DRILL & MACHINE** Co. (For Involute Gears), New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
Union Twist Drill Co. (For Gears), Athol, Mass.

## 2701— Cutters (T-Slot)

Barber-Colman Co. ("Standard"), Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 2702—Cutters (Tap & Reamer)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 2703—Cutters (Tobacco Counter)

Brunhoff Mfg. Co., Cincinnati, O.
Enterprise Mfg. Co. ("Enterprise"), Dauphin & 3d, Phila., Pa.
Erie Specialty Co., Erie, Pa.
Griswold Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co. ("Brighton", "Perfection", "Superior"), 693 B'way, New York
Landers, Frary & Clark ("Lee's"), New Britain, Conn.
National Specialty Mfg. Co., 18th & Sedgley av, Phila., Pa.
North Bros. Mfg. Co. ("American", also Shaves), Lehigh av & American, Phila., Pa.
Peck, Stow & Wilcox Co., Southingham, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Schollhorn, Wm. Co. ("Tuck's"), New Haven, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Streeter, N. R. & Co., Rochester, N. Y.
Wrightsville Hardware Co. ("Queen", "Brighton", "Perfection" & "Superior"), Wrightsville, Pa.

## Cutters (Tube)

(See Cutters, Flue)

## 2704—Cutters (Twine)

Wright Cutter Co. ("Wright"), Boston, Mass.

## 2705—Cutters (Twist Drill)

Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 2706—Cutters (Vegetable)

American Fork & Hoe Co., Cleveland, O.
Ames Plow Co., Boston, Mass.
Aspinwall Mfg. Co., Jackson, Mich.
Athol Machine Co., Athol, Mass.
Belcher & Taylor, Chicopee Falls, Mass.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Eddy Plough Co., Greenwich, N. Y.
Goodell Co., Antrim, N. H.
Humphrey & Sons, Joliet, Ill.
Landers, Frary & Clark, New Britain, Conn.
Mann, F. W. Co., Milford, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Rollman Mfg. Co., Mt. Joy, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn. & 96 Lafayette, New York
Silver Mfg. Co. ("Rapid"), Salem, O.
Standard Bone Cutter Co., Milford, Mass.
Stearns, E. C. & Co., Syracuse, N. Y.
Thompson, O. E. & Son (Hand), Ypsianti, Mich.
Tucker & Dorsey ("Atkins Queen"), Indianapolis, Ind.

## Cutters (Veneer)

(See Veneer Cutting Machines)

## 2707—Cutters (Washer & Gasket)

**BERNZ, OTTO ("Haggerty" & Reg**istering, "Rose", etc.), 21 Ashand av, Newark, N. J. (See adv. index, end of book)
Bonney Vise & Tool Works (Inc.) (Washer Only), Allentown, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Goodell-Pratt Co., Greenfield, Mass.
Johnson, Wm. (Hedenberg Works), Newark
Kraeuter & Co., Newark, N. J. N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
McCrea, Jas. & Co. ("Century"), 558 W Washington, Chicago, Ill.
Osborne, C. S. & Co., Harrison, N. J.
Pilley Packing & Flue Brush Co. ("Briggs" Gasket), St. Louis, Mo.
Rose, J. A., Hastings, Neb.
Smith, Otis A. (Washer Cutters Only), Rockfall, Conn.
Stortz, Jno., & Son (Washer), 210 Vine, Phila., Pa.
Tower & Lyon Co., 95 Chambers, New York

## Cutters (Wire)

(See Cutters, Rod & Wire)

## 2708—Cutting of Metal (Oxhydric Process)

American Oxhydric Co., Milwaukee, Wis.

## 2709— Cyanamid.

American Cyanamid Co., Baltimore, Md.

## 2710— Cyanide

Braun Corporation, Los Angeles, Cal.
Crooks, Robert Co., 135 Front, New York
Fuerst Bros. & Co., 2 Stone, New York
Harrison Bros. & Co. (Inc.) (Cyanide of Soda), 35th & Gray's Ferry rd, Phila., Pa.
Mallinckrodt Chemical Works, St. Louis, Mo.
Roessler & Hesslacher Chemical Co. (Cyanide of Sodium), 100 William, New York
Selby Smelting & Lead Co., San Francisco, Cal.

## 2711— Cyanide Plants

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Arizona & Sonora Mfg. Co., Nogales, Ariz.
Blaisdell Co., Los Angeles, Cal.
Chalmers & Williams, Chicago Heights, Ill.
Colorado Iron Works Co. ("Rothwell", Continuous Thickener & Filter, etc.), Denver, Colo.
Dorr, John V. N. ("Dorr", Continuous Thickener, etc.), Denver, Colo.
Hendryx Cyanide Machinery Co. ("Hendryx", Dewaterer, etc.), 109 William, New York
Hendy, Joshua Iron Works, San Francisco, Cal.
Imlay, W. L. Rapid Cyanide Process Co. (No Tankage), 139 Oxford, Phila., Pa.
International Rapid Cyaniding Co. (Cyanide Process), Phila., Pa.
Llewellyn Iron Works, Los Angeles, Cal.
Mill & Smelter Engineering Co., 114 Liberty, New York
Moore Filter Co. ("Clancy"), 170 B'way, New York
Pacific Tank & Pipe Co., San Francisco, Cal., & Los Angeles, Cal.
Pierce, Lucius S., Denver, Colo.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Redwood Manufacturers Co., Balboa bldg, San Francisco, Cal.
Traylor Engineering Co., Allentown, Pa.

## Cycles (Railway)

(See Cars, Velocipede)

## Cyclometers

(See Indicators, Speed)

## 2712— Cylinder Re-Boring

Ambrose Machine Co. ("In Position"), Eagle & Provost, Brooklyn, N. Y.
Lindstrom, Jno. T., Allentown, Pa.
Mathews, Hugh, Kansas City, Mo.
Renton, Wm., 101 Water, Pittsburg, Pa.
Ruwell, W. F., 919 Ridge av, Phila., Pa.
Schiller & Co., 820 Cherry, Phila., Pa.
Underwood, H. B. & Co., 1023 Hamilton, Phila., Pa.
Wegner Machine Co., Perry & Mississippi, Buffalo, N. Y.

## 2713—Cylinder & Tank Shells

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ill. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

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Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.

## Cylinders (Air Compressor)

(See Cylinders, Carbonic Acid Gas; also Cylinders & Shells, Seamless Pressed Steel)

## 2714— Cylinders (Ammonia)

Best Mfg. Co., Pittsburg, Pa.
Harrisburg Pipe & Pipe Bending Co. (Anhydrous), Harrisburg, Pa.
National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av., Pittsburg, Pa. (See adv. index, end of book)

## 2715—Cylinders (Artesian Well)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Mark Mfg. Co., Evanston, Ill.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

## 2716— Cylinders (Bolt Cap)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2717—Cylinders (Brass & Brass Lined)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2718—Cylinders (Brick Hardening)

**REEVES BROS., Alliance, O. (See** adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)

## 2719— Cylinders (Caisson)

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS CO., Alliance, O. (See** adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.

## 2720—Cylinders (Calcium Light)

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**PRESSED STEEL TANK CO., Mil**waukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg Pa. (See adv. index, end of book)

## 2721—Cylinders (Car Lighting)

National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

## 2722—Cylinders (Carbon)

Eastern Carbon Works, Jersey City, N. J.

## 2723—Cylinders (Carbonic Acid Gas)

Best Mfg. Co., Pittsburg, Pa.
Bethlehem Foundry & Machine Co., South Bethlehem, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Harrisburg Pipe & Pipe Bending Co. (Seamless), Harrisburg, Pa.
National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)

## 2724—Cylinders (Cast Iron)

Bethlehem Fdry. & Machine Co. (For Chemical Works, etc), South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Kettler Brass Mfg. Co., Houston, Tex.
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
United States Cast Iron Pipe & Foundry Co. (Large), 71 Broadway, New York

## 2725—Cylinders (Compress)

Dimmick Pipe Co., Birmingham, Ala.

## 2726—Cylinders (Creosoting)

Aurora Boiler Works (Inc.), Aurora, Ill.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Casey-Hedges Co., Chattanooga, Tenn.
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
Connelly & Co., 9th & Master, Phila., Pa.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. (Inc.),** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
McNeil, Jas. & Bros. Co., Pittsburg, Pa.
Manitowoc Engineering Works, Manitowoc, Wis.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Power & Mining Machinery Co., Cudahy, Wis.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.

## Cylinders (Deep Well)

(See Cylinders, Artesian Well)

## 2727—Cylinders (Gasoline Engine)

Bessemer Foundry Co., Grove City, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Ferro Machine & Foundry Co., Cleveland, O.
Frontier Iron Works, Buffalo, N. Y.
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
Moore, Sam'l L. & Sons Corpn. (Marine & Stationary), Elizabeth, N. J.
Pequonnock Foundry (Inc.), Bridgeport, Conn.
Trumbull, Mfg. Co., Warren, O.

## 2728— Cylinders (Glass)

Pairpont Corporation, New Bedford, Mass.

## 2729—Cylinders (Glass Valve Seat)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2730—Cylinders (Hardening)

American Clay Machinery Co., Willoughby, O.
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N E, Cleveland, O. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
**REEVES BROS. CO. (For Brick, etc.),** Alliance, O. (See adv. index, end of book)

## 2731—Cylinders (Hydraulic)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Connery & Co., 9th & Master, Phila., Pa.
East Jersey Pipe Co. (High Pressure), Paterson, N. J.
**GARRISON, A. FOUNDRY CO., Pitts**burg, Pa. (See adv. index, end of book)
Houston Car Wheel & Machine Co., Houston, Tex.
**KENNICOTT CO., 206 La Salle, Chi**cago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff,** N. Y. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis
National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburg, Pa.
**REEVES BROS CO., Alliance, O. (See** adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st,** av, Pittsburg, Pa. (See adv. index, end of book)
Sterrit-Thomas Foundry Co., Pittsburg, Pa.

## 2732—Cylinders (Hydro-Pneumatic)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2733—Cylinders (Hydrogen & Oxygen)

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff,** New York. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
**PRESSED STEEL TANK CO., Mil**waukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 2734—Cylinders (Pump, Ball Valve)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

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## 2735—Cylinders (Pump, Glass Valve)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2736—Cylinders (Pump, Spool Valve)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2737— Cylinders (Rock Drill)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
**KOVEN, L. O. & BRO., 50 Cliff,** New York. (See adv. index, end of book)

## 2738—Cylinders (Rotary Drying)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING CO.** Canton, O. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE CO.,** Bay City, Mich. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)

## 2739—Cylinders (Vanadium)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 2740—Cylinders (Vulcanizing)

Casey-Hedges Co., Chattanooga, Tenn.

## 2741—Cylinders (Water Jacketed)

Ferro Machine & Foundry Co., Cleveland, O.
Manufacturers' Foundry Co. (For Automobiles etc.), Waterbury, Conn

## 2742—Cylinders (Welded)

**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 2743—Cylinders (Wood)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 2744—Cylinders & Shells (Seamless Pressed Brass)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)

## 2745—Cylinders & Shells (Seamless Pressed Steel)

**PRESSED STEEL TANK CO. (Cold** Drawn), Milwaukee, Wis. (See adv index, end of book)
**REEVES BROS CO., Alliance, O. (See** adv. index, end of book)

## 2746—Cylinders & Tanks (Seamless Steel)

American Welding Co. (Welded Steel), Carbondale, Pa.
Avery Stamping Co. ("Never-Break"), Cleveland, O.
Federal Pressed Steel Co. (Cold Drawn), Milwaukee, Wis.
Harrisburg Pipe & Pipe Bending Co. (Steel) Harrisburg, Pa
Janney, Steinmetz & Co. (Mfrs. Agents), 4th & Market, Phila., Pa.
**PRESSED STEEL TANK CO., Milwaukee,** Wis. (See adv. index, end of book)

## 2747—Dairy Apparatus & Supplies

(See also Specific Article Required)

American Wooden Ware Mfg. Co. ("Toledo"),
Barclay, D. F., Elgin, Ill. Toledo, O
Burrell, D. H. & Co., Little Falls, N. Y.
Creamery Package Mfg. Co., Chicago, Ill.
Cornish, Curtis & Green Mfg. Co., Fort Atkinson, Wis.
Dairy Machinery & Construction Co., Derby, Conn.
Dairymen's Mfg. Co., Jersey City, N. J.
Dobson Mfg. Co., Rockford, Ill.
Fargo Creamery Supply House, Lake Mills, Wis.
Gowing, D. F., Syracuse, N. Y.
Hall Bros., West Acton, Mass.
Hunt, Helm, Ferris & Co., Harvard, Ill.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Jones, Frank L., Utica, N. Y.
Moisley & Pritchard Mfg. Co., Clinton, Ia.
Palmer, H. H. Co., Rockford, Ill.
Oakes & Burger, Cattaraugus, N. Y.
Reid, A. H. Creamery & Dairy Supply Co., 69th & Haverford, Phila., Pa.
Sharples Separator Co., West Chester, Pa.
Vermont Farm Machine Co., Bellows Falls, Vt.
Wright, R. G. & Co., Buffalo, N. Y.

## 2748— Damp Course

(See also Waterproofing Materials)

Acme Asphalt Roofing Mfg. Co. ("Eagle" Brand Asphalt), Jersey City, N. J.
Barrett Mfg. Co., 17 Battery pl, New York
Bird, F. W. & Son ("Paroid"), East Walpole, Mass.
Carey, Philip Mfg. Co., Lockland, O.
Pacific Refining & Roofing Co. ("Plasterite"), San Francisco, Cal.
Patent Vulcanite Roofing Co. ("Vulcanite" Asphalt), 1288 S Campbell av, Chicago, Ill.
Simpson Bros. Corporation, 166 Devonshire, Boston, Mass.
Standard Paint Co. (Ruberoid), 100 William, New York
Trinidad Asphalt Mfg. Co., St. Louis, Mo.

## Damp Proofing Compounds

(See Waterproofing Materials)

## 2749—Dampers (Coke Oven)

Helmick Foundry & Machine Co., Fairmont, W. Va.

## 2750—Dampers (Fireplace, Etc.)

Colonial Fireplace Co., 4650 W 12th, Chicago, Ill.
Covert, H. W. Co. ("Covert Throat"), 168 Duane, New York
**JACKSON, EDWIN A. & BRO. (Dome,** Slide & Ratchet & Throat, etc.), 50 Beekman, New York. (See adv. index, end of book)
Milford Iron Foundry Co., Milford, Mass.

## 2751—Dampers (Flue)

Pratt Engineering & Machine Co. (For Chemical Works), Atlanta, Ga.

## 2752—Dampers (For Forced Draft)

Buffalo Forge Co., Buffalo, N. Y.

## 2753—Dampers (Pipe)

Adams Co. ("Diamond"), Dubuque, Ia.
American Foundry & Mfg. Co., St. Louis, Mo.
**ARCADE MFG. CO. ("Arcade"),** Freeport, Ill. (See adv. index, end of book)
Berger Bros. Co., 231 Arch, Phila., Pa.
Cheney, S. & Son, Manilus, N. Y.
Clark Mfg. Co. ("Niagara"), Buffalo, N. Y.
Detroit Register Co. ("Yankee"), Detroit, Mich.
Devlin, Thos. & Co., 3d & Lehigh avs, Phila.,
Fanner Mfg. Co., Cleveland, O. Pa.
Gray Iron Foundry Co., Reading, Pa.
Griswold Mfg. Co. ("American"), Erie, Pa.
Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York
Hollands Mfg. Co., Erie, Pa.
Kramer Bros. Foundry Co. ("Gem"), Dayton, O.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Peck, Stow & Wilcox Co., Southington, Conn.
Reeves Mfg. Co., Canal Dover, Ohio
Republic Metal Ware Co., Buffalo, N. Y.
Sayre Stamping Co. ("Uncle Sam"), Sayre, Pa.
Shafer, H. W. ("Argo"), Mt. Pulaski, Ill.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
Wheeling Corrugating Co. ("Wheeling," Cast Iron), Wheeling, W. Va.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co. ("Brighton"), Wrightsville, Pa.

## Dampers (Stove)

(See Dampers, Pipe)

## 2754— Davits (Ship)

Lane & De Groot Co. ("Welin Quadrant," etc.), Long Island City, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 2755—Deafening Materials (Quilt)

**CABOT, SAM'L, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## Decalcomania Transfers

(See Ornaments, Transfer)

## Decorations

Under this heading see Sub-classifications:

For other materials used for decorating, etc., see the following classifications in different parts of the book:
Capitals, Composition; Carvers, Stone; Carvers, Wood, Classic; Ceilings, Sheet Steel; Floors, Parquet; Glass Stainers; Grille, Fret & Lattice Work; Marble, Art (Scagliola), Marble Interior Work; Memorial Windows; Modelers & Sculptors, Architectural; Mosaics, Various Kinds; Mouldings, Various Kinds; Ornaments, Various Kinds; Papier Mache; Scenic Artists; Sheet Metal Borders, Friezes, etc.; Stucco Work; Tiles, Various Kinds; Wall Finishes.

## 2756—Decorations (Carton Pierre)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
Cincinnati Plastic Relief Co., Madisonville, O.
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Emmel, Chas. & Rose Co., Boston, Mass.
Liesum, George & Co., 228 E 24th, New York
Marks, W. A. Plaster Ornamental Mfg. Co. 726 W 5th, Cincinnati, O.
Rudolph, Oscar, 32 E 22d New York
**SEIFERT, FRANK A., PLASTIC RE-**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)

## 2757—Decorations (Church)

Benzinger Brothers, 38 Barclay, New York
Borgia Marble Co., 1133 B'way, New York
Colgate Art Glass Co. (W. L. Coldwell), 8 Gansevoort, New York
Dolan, W. J., 181 Tremont, Boston, Mass.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Geissler, R., 56 W. 8th, New York
Halbert, Geo. & W., 455 Fulton, Brooklyn,
Janes, Walter, 123 E 23d, New York. N. Y.
Lamb, J. & R. (Inc.), 25 6th av, New York
Righter & Kolb, 156 5th av, New York
Tiffany Studios, Madison av & 45th, New York

## 2758—Decorations (Plastic Relief)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Bailey Co., 224 21st, Detroit, Mich.
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Emmel, Chas. & Rose Co., Boston, Mass.
Hafermann, Wm., Decorating Co., Milwaukee, Wis.
Forman Bros., 645 Gates av, Brooklyn, N. Y.
Milwaukee Ornamental Carving Co., 423 Poplar, Milwaukee, Wis.
Righter & Kolb, 156 5th av, New York
Root, C. R., 104 Asylum, Hartford, Conn.
**SEIFERT, FRANK A., PLASTIC RE-**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)
Tognarelli & Voigt Co., 2310 Chestnut, Phila., Pa.
Walter, G. E. Co., 157 E. 44th, New York

## 2759—Decorations (Theatre)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Arnold & Locke, 250 Fulton, Brooklyn, N. Y.
**DECORATORS' SUPPLY CO., Archer** av & Lee, Chicago, Ill. (See adv. index & branch offices, end of book)
Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.

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Halbert, Geo. & W., 455 Fulton, Brooklyn, N. Y.
Righter & Kolb, 156 5th av, New York
**SEIFERT, FRANK A., PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)
Story, O. L. Scenic Co. (Inc.), 21 Tuffts, Somerville, Mass.

## 2760—Decorative Art Leathers

Boston Artificial Leather Co., Stamford, Conn., & 310 4th av, New York
Mills-Platt Co., 44 Clinton, Brooklyn, N. Y.
Righter & Kolb, 156 5th av, New York

## 2761—Decorative Art Tapestries

Brounet, Arthur, 1133 B'way, New York
Mills-Platt Co., 44 Clinton, Brooklyn, N. Y.
Turner, J. Spencer Co., 86 Worth, New York

## 2762—Decorative Electric Lighting

Elblight Co. of America, 120 W 31st, New York
Electric Porcelain Mfg. Co. (Christmas-Tree Lighting Outfits, etc.), Baltimore, Md.
Franco-American Elec. Novelty Co. (Christmas-Tree Lighting Outfits, etc.), 77 Chambers, New York
**GENERAL ELECTRIC CO. (Christ**mas-Tree Lighting Outfits, etc.), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Jaeger Miniature Lamp Mfg. Co. (Christmas-Tree Lighting Outfits, etc.), 133 Bible House, New York
Lowe Electric Co., 54 Vesey, New York
Manhattan Electrical Supply Co. (Christmas Tree & Decorative), 17 Park pl, New York
P. R. Mfg. Co., Detroit, Mich.
Standard Electric Mfg. Co., Niles, O.
Tietgen, Folk & Co., 81 W Van Buren, Chicago, Ill.

## 2763—Decorators (Architectural)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Bronnet, Arthur, 1133 B'way, New York
Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Decorative Supply Co., Detroit, Mich.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Emmel, Chas. & Rose Co., Boston, Mass.
Lombard & Ludwig (Inc.), Washington, D. C.
Mills-Platt Co., 44 Clinton, Brooklyn, N. Y.
Milwaukee Ornamental Carving Co., 423 Poplar, Milwaukee, Wis.
Righter & Kolb, 156 5th av, New York
Root, C. R., 104 Asylum, Hartford, Conn.
Schneider, F. H. (Altar Builders, etc.), Syracuse, N. Y.
**SEIFERT, FRANK A., PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)
Tognarelli & Voigt Co., 2310 Chestnut, Phila., Pa.

## Decorators (Ecclesiastical)

(See Decorations, Church)

## 2765—Decorators & Painters (Mural)

Blashfield, Edwin H., 48 W 59th, New York
Boyle, Jno. Co., New Britain, Conn.
Combes, Herzog Co., 4 E. 34th, New York
Geissler, R., 56 W. 8th, New York
Haberstroh, L. & Sons, 9 Park, Boston
Nelson, Jno. L. & Bro. Co., 270 W 19th, New York
Nelson, W. P. Co., 241 Michigan av, Chicago, Ill., & 120 W. 29th, New York
Rambusch Decorating Co., 160 5th av, New York
Turner, Chas. Y., 35 W 14th, New York
Weber, Lind & Hall Co., Cleveland, O.

## 2766—De-Horners (Cattle)

Leavitt Mfg. Co. ("Leavitt"), Urbana, Ill.
Phillips, Morris T. ("Keystone"), Pomeroy, Pa.
Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.
Rhodes Mfg. Co., Grand Rapids, Mich.
Ridgley Trimmer Co., Springfield, O.
Sayre, L. A. & Co. ("Calf"), Newark, N. J.

## 2767—Delta Metal Bars & Plates

Phosphor Bronze Smelting Co., 2204 Washington av, Philadelphia, Pa.

## 2768—Demagnetizers (Watch)

Green, W. Electric Co., 81 Nassau, New York
Knoblock-Heideman Mfg. Co., South Bend, Ind.

## 2769— Demijohns

Boley Mfg. Co., Olean, N. Y.
Burgin & Sons Glass Co., Philadelphia, Pa.
Fibre Covered Bottle Co., East Stroudsburg, Pa.
Hawley Glass Co., Hawley, Pa.
Illinois Glass Co., Alton, Ill.
Ohio Lantern Co. (Wire Cushioned), Tiffin, O.
White, Fred C. (Boxed), 194 Water, New York

## 2770— Depilatories

Grasselli Chemical Co., Cleveland, O.
Recamier Mfg. Co., 131 W. 31st, New York

## 2771— Derailers

Adreon Mfg. Co., St. Louis, Mo.
American Frog & Switch Co., Hamilton, O.
American Railway Device Co., Chicago, Ill.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Central Track Supply Co., Springfield, O.
Cincinnati Frog & Switch Co., Cincinnati, O.
Cleveland Frog & Crossing Co. ("Porter"), Cleveland, O.
General Railway Signal Co. ("Anderson-Bevan"), Rochester, N. Y.
Hayes Track Appliance Co. ("Hayes" Lifting & Pivot De-Rails, for Steam or Street Railways), Richmond, Ind.
Hobart-Allfree Co. ("Freeland" Mechanical Clamp & "Smyth" Hand Throw), 84 Van Buren, Chicago, Ill.
Indianapolis Switch & Frog Co., Springfield, O.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Morden Frog & Crossing Works (Half Split), Commercial B'k bldg, Chicago, Ill.
National Railway Materials Co. ("Travis"), 90 West, New York
New York Switch & Crossing Co., Hoboken, N. J.
Pettibone, Mulliken & Co., Chicago, Ill.
Pneumatic Gate Co., 1921 S Fairfield, Chicago, Ill.
Railroad Supply Co. ("R. R. S."), Bedford bldg, Chicago, Ill.
Ramapo Iron Works, Hillburg, N. Y.
St. Louis Frog & Switch Co., St. Louis, Mo.
Sheffield Car Co., Three Rivers, Mich.
Universal Railway Supply Co., Baltimore, Md.
Wharton, Wm. Jr & Co., Phila., Pa.

## 2772—Derrick Irons & Fittings

Allen & Ross, 427 N 13th, Philadelphia, Pa.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Boland Machine & Mfg. Co., New Orleans, La.
Booz, Wm. C., Van Buren, Ind.
**BOSTON-OREGON MAST CO., 131 Cole**ridge, East Boston, Mass. (See adv. index, end of book)
Byers, Jno. F. Machine Co., Ravenna, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)


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Cockburn Co., Jersey City, N. J.
Contractors Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. .CO., Bangor, Pa.** (See adv. index, end of book)
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Lane Mfg. Co. (Derrick Turning Gears, Air or Steam), Montpelier, Vt.
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Lord, Bowler Co., Cleveland, O.
Memphis Machine Works, Memphis, Tenn.
**MONIGHAN MACHINE CO., 2034 Car**roll av, Chicago, Ill. (See adv. index, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.**
New Albany Mfg. Co., New Albany, Ind.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Block & Mfg. Co., N S, Pittsburg, Pa.
Smith, Theo. & Sons Co., Jersey City, N. J.
**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.

## Derrick Rope Mfrs.

(See Rope, Manila & Sisal; also Wire Rope Manufacturers)

## 2773—Derrick Spars, Masts & Booms

**BOSTON-OREGON MAST CO., 131 Cole**ridge, East Boston, Mass. (See adv. index, end of book)
Cram, D. Henry, Boston, Mass.
**PIGEON HOLLOW SPAR CO. (Clear** White Spruce, Hollow & Solid Spars, 20 to 120 ft.), E Boston, Mass. (See adv. index,
**SIMMONS, JOHN CO. (Tubular Steel),** 104 Centre, New York. (See adv. index,
Sutton, Jas. B., Mystic, Conn. end of book)

## 2774— Derrick Swingers

**MEAD-MORRISON MFG. CO., Works** & General Offices, Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO. (Derrick &** Swinging Engines), Duluth, Minn. (See adv. index, end of book)
Otsrander Railway & Timber Co., Ostrander, Wash.
Superior Iron Works Co. (Heavy Derricks & Swinging Engines), Superior, Wis.

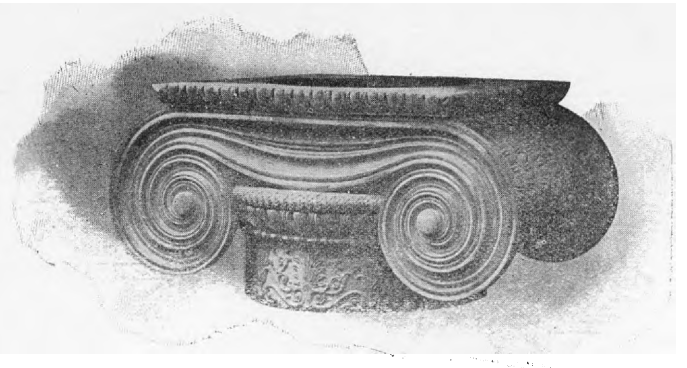
## 2775— Derrick Timbers

**BOSTON-OREGON MAST CO., 131 Cole**ridge, East Boston, Mass. (See adv. index, end of book)

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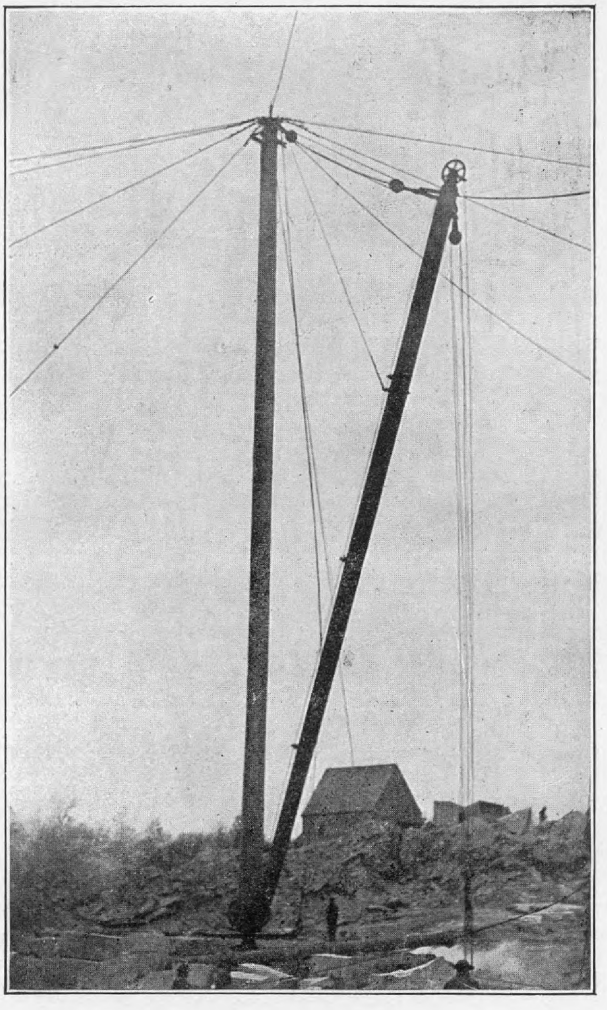
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## 2776— Derricks

(Under this Heading See Sub-classifications)

(See also Cranes of Various Kinds; also Hoists of Various Kinds)

Allen & Ross (Steam, Electric, etc.), Phila., Pa.

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)

Booz, Wm. C., Van Buren, Ind.

**BOSTON-OREGON MAST CO., 131 Coleridge,** East Boston, Mass. (See adv. index, end of book)

Browning, Victor P. & Co., Cleveland, O.

**Brunner & Lay, 570 W Polk, Chicago, Ill.**

Byers, Jno. F. Machine Co. (Steam & Hand Power), Ravenna, O.

**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)

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**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)

Contractors Plant Mfg. Co. (Steel or Wood), 127 Erie, Buffalo, N. Y.

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

**EXETER MACHINE WORKS (Portable),** Pittston, Pa. (See adv. index & branch offices, end of book)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)

Granite City Iron Works Co., St. Cloud, Minn.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)

Hinds, Thos., Malone, N. Y.

**INSLEY MFG. CO. (Steel Portable** Auxiliary) Indianapolis, Ind. (See adv. index & branch offices, end of book)

Lake Shore Engine Works (& Derrick Hoisters), Marquette, Mich.

Lane Mfg. Co. (Boom), Montpelier, Vt.

**LIDGERWOOD MFG. CO., 96 Liberty,** N. Y. & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book

Lincoln Iron Works, Rutland, Vt.

Lord, Bowler & Co., Cleveland, O.

McMyler-Interstate Co, (Hoisting), 1799 Columbus rd, Cleveland, O. Works, Warren, O.

**MEAD-MORRISON MFG. CO., Cambridge** (Boston), Mass. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.

**MONIGHAN MACHINE CO. (Guy & Stiff** Leg), 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)

**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)

**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)

New York Cableway & Engineering Co., 90 West, New York

Patch, F. R. Mfg. Co., Rutland, Vt.

Portland Extension Ladder Co. (Derricks & Scaffolds, Complete), Newark, N. J.

St. Cloud Iron Works (Steam), St. Cloud, Minn.

Sasgen Brothers ("Sasgen", Circle Swing), 2053 Racine av, Chicago, Ill.

Smith, Whitcomb & Cook Co., Barry Vt

**SPEIDEL, JOHN G. (Folding), c Buttonwood & Gordon, Reading, Pa.** (See adv. index, end of book)

Steam Stone Cutter Co. (Steam, for Heavy Stone Hauling), Rutland, Vt.

Superior Iron Works Co. (Heavy & Swinging Engines), Superior, Wis.

**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)

**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago., Ill. (See adv. index & branch offices, end of book)

Urie-Snyder Iron Works Co., Kansas City, Mo.

Vulcan Iron Works, 327 N Irving av, Chicago, Ill.

Wellman-Seaver-Morgan Co. (Steam Revolving). Cleveland O.

**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 2777—Derricks (Clam Shell)

**AMERICAN HOIST & DERRICK CO., St. Paul, Minn.** (See adv. index & branch offices, end of book)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)

Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 2778— Derricks (Crane)

**AMERICAN HOIST & DERRICK CO., St. Paul Minn.** (See adv. index & branch offices, end of book)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

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**NORTHERN ENGINEERING WORKS** (Electric), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 2779—Derricks (Electric)

**NORTHERN EQUIPMENT WORKS, 9** Chene, Detroit, Mich. **(See adv. index & branch offices, end of book)**

## 2780—Derricks (Floating)

**AMERICAN HOIST & DERRICK CO.,** St. Paul Minn. (See adv. index & branch offices, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## 2781— Derricks (Folding)

**SPEIDEL, JOHN G., Reading, Pa. (See adv. index, end of book)**

## 2782— Derricks (Gulf)

**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## 2783— Derricks (Guy)

**AMERICAN HOIST & DERRICK CO.** (Self-Slewing Steel or Wooden), St. Paul. Minn. (See adv. index & branch offices. end of book)
**BOSTON-OREGON MAST CO., 131** Coleridge, East Boston, Mass. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**MONIGHAN MACHINE CO., 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)**
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago., Ill. (See adv. index & branch offices, end of book)

## 2785— Derricks (Locomotive)

**MEAD-MORRISON MFG. CO. (Self-**Propelling, for Stone Cutting Sheds, etc.), **Cambridge (Boston), Mass. (See adv. index & branch offices end of book)**

## 2786—Derricks (Log Loading)

**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)

## 2787—Derricks( Oil & Water Well)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. **(See adv. index, end of book)**

## 2788—Derricks (Pile Driving)

Byers, Jno. F. Machine Co., Ravenna, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
**CLYDE IRON WORKS (Mounted on** Spool Rollers), Duluth, Minn. (See adv. index & branch offices, end of book)
Contractors Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book.
McMyler-Interstate Co.. 1799 Columbus rd, Cleveland, O.; Works: Warren, O.
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
New York Cableway & Engineering Co., 90 West, New York
Smith, Theodore & Sons Co., Jersey City, N. J.
Vulcan Iron Works, 327 No. Irving av, Chicago, Ill.

## 2789—Derricks (Portable)

**NATIONAL IRON CO. (For Quarry,** Contractors', Log Loading, etc.), Duluth, Minn. (See adv. index, end of book)

## 2790— Derricks (Revolving)

**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## 2791— Derricks (Steam)

**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## 2792— Derricks (Steel)

**(See Also Derricks)**

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
**CLYDE IRON WORKS (Stiff Leg** Bull Wheel, etc.), Duluth, Minn. (See adv. index & branch offices, end of book)
Danville Foundry & Machine Co., Danville, Ill.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.** (Hand Power), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE (Traveling &** Stationary), 50 Church, New York. (See adv. index, end of book)
**INSLEY MFG. CO. (Contractors'** Portable Auxiliary), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Modern Steel Structural Co.. Waukesha. Wis.
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
New York Cableway & Engineering Co., 90 West, New York
**NORTHERN EQUIPMENT WORKS, 9** Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Page, John W. (Revolving Boom), Security bldg, Chicago, Ill.
York Bridge Co. (Any Length of Mast or Boom), York, Pa.
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 2793— Derricks (Stiff-Leg)

**AMERICAN HOIST & DERRICK CO.,** St. Paul Minn. (See adv. index & branch offices. end of book)
**BOSTON-OREGON MAST CO., 131 Coleridge, East Boston, Mass.** (See adv. index, end of book)
**CLYDE IRON WORKS (Steel, Bull** Wheel, etc.), Duluth, Minn. (See adv. index & branch offices. end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**MONIGHAN MACHINE CO., 2034 Car**roll av, Chicago, Ill. (See adv. index, end
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago., Ill. (See adv. index & branch offices, end of book)

## 2794—Derricks (Swinging Boom)

**CLYDE IRON WORKS (Complete** with Steel Boom), Duluth, Minn. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)

## 2795— Derricks (Tower)

**AMERICAN HOIST & DERRICK CO.,** St. Paul Minn. (See adv. index & branch offices, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 2796— Derricks (Traveling)

**Allen & Ross (Electric, etc.), Phila., Pa.**
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
Byers, Jno. F. Machine Co., Ravenna, O.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**HAYWARD CO., THE (Steel), 50** Church, New York. (See adv. index, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland O. Works, Warren, O.
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)
Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 2797— Desk Mfrs.

**Aetna Cabinet Co., Indianapolis, Ind.**
Andrews, A. H. Co., 174 Wabash av, Chicago, Ill.
Armstrong & Barthelmes, Boston, Mass.
Atlanta Table Co., Atlanta, Ga.
**Bagby Furniture Co., Baltimore, Md.**
**Beals, Thos. P. Furniture Co., Portland, Me.**
**Bently & Gerwig Furniture Co. (Roll Top &** Flat), Parkersburg, W. Va.
Berlin Mills Co., Portland, Me.
**Bentell, H. M., Atlanta, Ga.**
**Black, Geo. H. (Typewritten), Buchanan, Mich.**
**Breed-Johnson Furniture Co., Jamestown, N. Y.**
**Butler Mfg. Co., Syracuse, N. Y.**
**Capital Chair Co., Brooklyn, Wis.**
**Capitol City Furniture Co., St. Paul, Minn.**
**Central Mfg. Co., 454 Armour, Chicago, Ill.**
**Chattahoochee Furniture Co., Flowery Branch, Ga.**
**Chautauqua Desk Co., Kane, Pa.**
**Clemetsen Co., 2607 Flourney, Chicago, Ill.**
Columbia Lumber & Mfg. Co., Columbia, S.C.
**Commercial Furniture Co., 2718 W Superior, Chicago, Ill.**
Cutler Desk Co. (Roll & Flat Top), Buffalo, N. Y.
Dana, Geo. W., Camden, N. Y.
**Dearborn Desk Co., Marion, Ind.**
Dietz, J. F. & Co., Cincinnati, O.
Dornette, J. & Bro., The, Cincinnati, O.
Doten-Dunton Desk Co., Boston, Mass.
**Fassler, Jacob, Utica, N Y.**
**Feige, E. Desk Co., Saginaw, Mich.**
Feige, George, Saginaw, Mich.
**FIRE-PROOF FURNITURE & CON-**struction Co., (Steel) Miamisburg, O. (See adv. index, end of book)
Forest City Furniture Co., Rockford, Ill.
**Fort Wayne Special Furniture Co., Fort Wayne,**
Franklin Desk Co., Franklin, Ind.
Friederich, L. & Bros., St. Louis, Mo.
Globe Fixture & Furniture Co., Quincy, Ill.
**Gunn Furniture Co., The, Grand Rapids, Mich.**
**Hall, G. W. & Co., Boston, Mass.**
**Haney School Furniture Co., Grand Rapids, Mich.**
**Hanpeter, Frederick W., St. Louis. Mo.**
**Hardwood Manufacturing Co., Greensboro, N. C.**
**Herkimer Manufacturing Co., Herkimer, N. Y.**
**Himmel, M. L. & Son, Baltimore, Md.**
**Holman, R. Co., Chelsea, Mass.**
Honeoye Falls Wood Working Co., Honeoye Falls, N. Y.
Horrocks Desk Co. (Inc.), Herkimer, N. Y.
Jasper Furniture Co., Jasper, Ind.
**Kalamazoo Sled Co. (Children's Blackboard),** Kalamazoo, Mich.
Kelsall, Thos. & Co., Cincinnati, O.
Keppel, R. J. & Co., Chester, Pa.
Keyer, G. & Co., Cincinnati, O.
Kleeman, W. & Co., 311 W 59th, New York
**Koenig Furniture Co., St. Louis, Mo.**
**Larson, Peter, 189 Iowa, Chicago. Ill.**
**Lauter, Herman, Indianapolis, Ind.**
**Leopold Desk Co.. Burlington, Ia.**
**McCassey Bros., Cincinnati, O.**

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Marysville Cabinet Co. ("Queen" Typewriter), Marysville, O.
Mason, J. W. & Co., 436 Pearl, New York
Meyer & Farrer, Carthage, N. Y.
Michigan Desk Co. (Ltd)., Grand Rapids, Mich.
Minneapolis Desk Mfg. Co., Minneapolis, Minn.
Minneapolis Office & School Furniture Co. (School), Minneapolis, Minn.
Montgomery Table Works, Montgomery, Pa.
Moon Desk Co. (Roll, Flat, Standing & Typewriter), Muskegon, Mich.
Moore Mfg. Co., Springfield, Mo.
Myrtle Desk Co., High Point, N. C.
National Desk Co., Herkimer, N. Y.
Northwestern Furniture Co., Milwaukee, Wis.
Novelty Wood Work Co. (Inc.), Union City, Pa.
Olsen, O. C. S. Co., 2511 Moffat, Chicago, Ill.
Orpin Bros., Boston, Mass.
Parker-Battle-Talbot Mfg. Co., Tullahoma, Tenn.
Passow's, C. Sons, 196 Wash'n, Chicago, Ill.
Petersen, A. & Co., 21 Armour, Chicago, Ill.
Quigley Furniture Co., The, Whitesboro, N. Y.
Quincy Show Case Works, Quincy, Ill.
Rabenau, Martin, Philadelphia, Pa.
Roehr, Charles Co., The, Bucyrus, O.
Sargent Mfg. Co. (House & Ladies), Muskegon, Mich.
Scherer, John C., Jr., Baltimore, Md.
Schmidt, H. Sons Co., Keokuk, Ia.
Schwarzwaelder, L. A., Chichester, N. Y.
Shelbyville Desk Co., Shelbyville, Ind.
Simmons, R. A. & Co., 135 Adams, Chicago, Ill.
Standard Furniture Co., Herkimer, N. Y.
Tell City Desk Co., Tell City, Ind.
Toledo Desk & Fixture Co., Toledo, O.
Union Furniture Mfg. Co., Union, S. C.
Valley City Desk Co., Grand Rapids, Mich.
Vetter Desk Works, Rochester, N. Y.
Wagemaker Co., Grand Rapids, Mich.
Welty, Wm A. Co., Waterloo, Ia.
Western Furniture Co., St. Louis, Mo.
Winnebago Furniture Mfg. Co., Fond du Lac, Wis.
Winneberger, Geo. & Son, 252 S 3rd, Phila., Pa.
Winter, M. Lumber Co., Sheboygan, Wis.
Witte, J. C., Manufacturing Co., Minneapolis, Minn.
Yawman & Erbe Mfg. Co., Rochester, N. Y.

## 2798— Desk Slides

STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index & branch offices, end of book)

## 2799—Desk Swinging Attachments

Shelbyville Desk Co., Shelbyville, Ind.
Weis Mfg. Co., Monroe, Mich.

## Desks (Metallic)

(See Bank & Office Fixtures, Metallic)

## 2800— Detectors (Ground)

American Specialty Co., Syracuse, N. Y.
Fort Wayne Electric Works, Fort Wayne, Ind
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
Keystone Electrical Instrument Co., 901 Montgomery av, Phila., Pa.
Roller-Smith Co., 203 B'way, New York; Works: Bethlehem, Pa.
Steele Glass Co., 622 Locust, Phila., Pa.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 2801—Detectors (Water Waste)

Pitometer Co., 220 B'way, New York

## 2802— Detinning Plants

American Detinning Co., Connellsville, Pa.
Goldschmidt Detinning Co., 60 Wall, New York. Works: Chrome, N. J.
Vulcan Detinning Co., 114 Liberty, New York. Works, Sewarren, N. J.

## 2803— Devulcanizers

Biggs Boiler Works, Akron, O.
Birmingham Iron Foundry, Derby, Conn.
Clark, Eldred W., Hartford, Conn.
THROPP'S, JOHN E. SONS CO., ft of Lewis, Trenton, N. J. (See adv. index, end of book)
Thropp, Wm. R. Sons Co., Trenton, N. J.

## 2804— Dextrine

Arabal Mfg. Co., 100 William, New York
Behrend, F., 54 Front, New York
Bloede, Victor G. Co., Baltimore, Md.
Delaware Glue Co., Wilmington, Del.
FOX, M. EWING & CO., 240 E 136th, New York. (See adv. index, end of book)
Fuller & Fuller Co., 220 Randolph, Chicago, Ill.
Glover, H. N. & Son, 355 River (Mattapan), Boston, Mass.
Klipstein, A. & Co., 122 Pearl, New York
Masek, C. Glue Co., Cleveland, Ohio
National Gum Mica Co., 502 W. 45th, New York
Nicol, J. M. & J. S., North Paterson, N. J.

## 2805—Dials (Clock, Gauge, Scale, Meter, Etc.)

Bridgeport Enamel Dial Co., Bridgeport, Conn.
Electro Chemical Engraving Co. (Inc.) (Etched Metal), 450 19th, Brooklyn, N. Y.
Manhattan Dial Co., 38 Lexington av, Brooklyn, N. Y.
Newark Brass Plate Engraving Co. (Etched Metal), Newark, N. J.
O'Hara-Waltham Dial Co., Waltham, Mass.
Salo Art Metal Co. (Etched Metal), Binghamton, N. Y.
Waterbury Enamel Co., Waterbury, Conn.

## 2806—Diamonds (Glaziers')

Dickinson, Jno., 64 Nassau, N. Y.
Grant-Lees Machine Co., Cleveland, O.
Van Moppes & Son, 87 Nassau, New York

## 2807— Diamonds (Miners')

MEYERS, WILLARD F., 342 Vernon av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 2808— Diaphragms (Car)

(See also Diaphragms, Rubber, etc.)

Acme Supply Co. ("Acme"), 39 Jackson blvd, Chicago, Ill.
Adreon & Co., St. Louis, Mo.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
Railway Appliances Co. ("Aax" or "R. A." Vestibule), Old Colony bldg, Chicago, Ill.

## 2809—Diaphragms (Curtain Fixture)

Railway Appliances Co., Old Colony bldg, Chicago, Ill.

## 2810—Diaphragms (Paper Mill)

GOODRICH, B. F. CO., Akron, O. (See adv. index & branch offices, end of book)
HOME RUBBER CO., Chambersburg, Trenton, N. J. (See adv. index & branch offices, end of book)

## 2811— Diaphragms (Pump)

HOME RUBBER CO., Chambersburg, Trenton, N. J. (See adv. index & branch offices, end of book)

## 2812—Diaphragms (Rubber)

Acme Mfg. Co., Trenton, N. J.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co. Akron, O.
GOODRICH, B. F. CO., Akron, O. (See adv. index & branch offices, end of book)
HOME RUBBER CO., Chambersburg, Trenton, N. J. (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.) (High and Low Pressure, etc.), Detroit, Mich.
NEW YORK RUBBER CO., Reade & Church, New York. (See adv. index, end of book)
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
Sayen Rubber Co., Hamilton Square, N. J.
Voorhees Rubber Co., Jersey City, N. J.

## 2813— Diaphragms (Steam)

HOME RUBBER CO., Chambersburg, Trenton, N. J. (See adv. index & branch offices, end of book)

## 2813a— Dibble (Planting)

BUFFUM TOOL CO., Louisiana, Mo. (See adv. index & branch offices, end of book)

## Die Blocks, Steel

(See Steel, Crucible)

## 2814— Die Sinkers

Adriance Machine Works, Brooklyn, N. Y.
Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Clapp, E. D. Mfg. Co., Auburn, N. Y.
Cleveland Galvanizing Works Co., Cleveland, Ohio
Ellwood City Forge Co., Ellwood City, Pa.
GLOBE MACHINE & STAMPING CO., 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hay-Budden Mfg. Co., Brooklyn, N. Y.
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Keystone Drop Forge Works, Chester, Pa.
Konigslow, E. Stamping & Tool Works, Cleveland, O.
Leffler, Chas. & Co., Brooklyn, N. Y.
Mooney & Bueter, 507 W Jackson blvd, Chicago, Ill.
NIAGARA FALLS METAL STAMPing Works, Niagara Falls, N. Y. (See adv. index, end of book)
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.
Richard Mfg. Co., Bloomsburg, Pa.
Schwerdtle Stamp Co., Bridgeport, Conn.
Taylor-Shantz Co., Rochester, N. Y.
V. & O. Press Co., Glendale Station, L. I., N. Y.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wheeling Mold & Foundry Co., Wheeling, W. Va.

## Die Stocks

(See Stocks & Dies; also Pipe Cutting & Threading Machines)

## Dies

(Under this Heading See Sub-classifications)

## 2815—Dies (Adjustable Expanding)

AMERICAN TAP & DIE CO. ("Adamatine," "Temper" & "Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)
BLISS, E. W. CO. (For Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Card, S. W. Mfg. Co. (Round), Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Chester Engineering & Machine Co., Chester, Pa.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Leffler, Chas. & Co., Brooklyn, N. Y.
Modern Tool Co. (Self Opening), Erie, Pa.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.
Saunders, D. Sons, Yonkers, N. Y.
Smith, Chas. A., Germantown, Phila., Pa.
Standard Machinery Co., Providence, R. I.
STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
Toledo Pipe Threading Machine Co., Toledo, O.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wiley & Russell Mfg. Co. (Round), Granfield, Mass.
Winter Bros. Co. (Round), Wrentham, Mass.

## 2816— Dies (Automatic)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Geometric Tool Co., New Haven, Conn.
Hartford Machine Screw Co., Hartford, Conn.
Jones & Lamson Machine Co., Springfield, Vt.
Leffler, Chas. & Co., Brooklyn, N. Y.
Perkins Machine Co., Warren, Mass.
Scott & Sons Co. (Expanding), Medford, Mass.

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Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
V. & O. Press Co., Glendale Station, L. I., N. Y.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 2817— Dies (Automobile)

**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 2818— Dies (Bell)

Adams, S. Jarvis Co., Pittsburg, Pa.

## 2819— Dies (Blanking)

Acme Mfg. Co., Waterbury, Conn.
Baird Machine Co., Oakville, Conn.
**BLISS, E. W. CO. (For Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Callaghan Machine & Die Co., Canton, O.
**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)
Columbus Die, Tool & Machine Co., Columbus, O.
Cook, H. C. Co., Ansonia, Conn.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hatheway Mfg. Co., Bridgeport, Conn.
Mitchell, Jno. R. Co., Baltimore, Md.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Ranz Stamping Tool Co., St. Louis, Mo.
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Taylor-Shantz Co., Rochester, N. Y.
**TRETHEWEY, SAMUEL & CO. (Ltd.),** 47th, Pittsburg, Pa. (See adv. index, end of book)
V. & O. Press Co., Glendale Station, Long Island, N. Y.
Verdin, Kappes & Verdin, Cincinnati, O.
**VOELKNER & HARRY MANUFACTURing** Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
W. & S. Mfg. Co., Worcester, Mass.
Winkelman, Louis & Co., Cincinnati, O.

## 2820— Dies (Bolt Threading)

**AMERICAN TAP & DIE CO. ("Eagle Brand," Solid),** Greenfield, Mass. (See adv. index, end of book)
**ARMSTRONG MFG. CO., 278 Knowlton,** Bridgeport, Conn. (See adv. index & branch offices, end of book)
Bay State Tap & Die Co. (Machine or Solid Bolt), Mansfield, Mass.
Brown, H. B. Co., East Hampton, Conn.
Brubaker, W. L. & Bros. (Solid), Millersburg, Pa.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M., Tap & Die Co. (Solid Boynton & Plummer), Pawtucket, R. I.
Holroyd & Co. (Round Adjustable & Square Solid), Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Reed Mfg. Co., Erie, Pa
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charleston, N. H.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wiley & Russell Mfg. Co. (Solid, Round & Square), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

## 2821— Dies (Box Printing)

American Name Plate & Engraving Co., 352 Atlantic av, Boston, Mass
Becker, August Engraving Co., 247 Atlantic av., Boston, Mass
Borgstrom, G. J., 224 S Canal, Chicago, Ill.
Koehler, Henry L. Mfg. Co., Louisville, Ky.
Matthews, James H. & Co. (Complete Outfit), Pittsburg, Pa.
Fries, Anthony J., Cincinnati, Ohio
Mooney & Bueter, 507 W Jackson blvd, Chicago, Ill.
Murdock, Jas. Jr. Co., Cincinnati, Ohio
Northwestern Stamp Works, St. Paul, Minn.
Schridde, Wm., 35 Clark, Chicago, Ill.

## 2822— Dies (Brick & Clay Workers')

American Clay Machinery Co., Bucyrus, O.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Fernholtz Brick Machinery Co., St. Louis, Mo.
Louisville Machine Co., Louisville, O.
Means Engineering Foundry Co., Toronto, O
Portsmouth Machine & Casting Co., Portsmouth, O.
Steele, J. C. & Son, Statesville, N. C.
Stevenson Co., Wellsville, O.

## 2823— Dies (Can Makers')

Ams, Max Machine Co., Mount Vernon, N. Y.
Astoria Iron Works (Inc.), Astoria, Oreg.
Ayars Machine Co., Salem, N. J.
**BLISS, E. W. CO. (For Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index, end of book
Leffler, Chas. & Co., 49 Clymer, Brooklyn N. Y
Ranz Stamping Tool Co., St. Louis, Mo.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.

## 2824—Dies (Chilled Hammer)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book
**GARRISON, A. FOUNDRY CO., Pitts**burg, Pa. (See adv. index, end of book)
National Roll & Foundry Co., Avonmore, Pa
Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.
Sterett-Thomas Foundry Co., Pittsburg, Pa.

## 2825— Dies (Chrome Steel)

Chrome Steel Works, Chrome, N. J.

## 2826—Dies (Compression Rivet)

Marchant, Geo. F., Elizabeth & Lake, Chicago, Ill

## 2827— Dies (Cutting)

Adams, John J. (For Leather, Cloth, Rubber Paper, etc.), Worcester, Mass
Adriance Machine Works, Brooklyn, N. Y.
Advance Mfg. Co., Racine, Wis.
American Die & Tool Co., Reading, Pa.
Avery Stamping Co., Cleveland, O.
Baird Machine Co., Oakville, Conn.
Beaudry, T. J., Marlboro, Mass.
Bender, Ph. J. & Sons, 87 Frankfort, New York
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO. (For Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book
Brockton Die Co., Brockton, Mass.
Butterfield & Co., Derby Line, Vt.
Callaghan Machine & Die Co., Canton, O.
Chester Engineering & Machine Co., Chester, Pa.
Chesterman & Streeter (Inc.), 25 S 11th, Philadelphia, Pa.
Cincinnati Screw & Tap Co., Twightwee, O
Cook, H. C. Co., Ansonia, Conn.
Crown Die & Tool Co., 107 N Canal, Chicago,
Dewes, A. Co., 243 Centre, New York
Ferracute Machine Co. (Sheet Metal), Bridgeton, N. J
Gardam, Wm. & Son (Inc), 80 Park pl, New York
Gem Mfg. Co. (For Flat & Drawn Work in Steel & Brass), Pittsburg, Pa.
Glen Rock Stamping Co., Glen Rock, Pa.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Hibbard, W. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
Hoggson & Pettis Mfg. Co. (Paper, Cloth & Rubber), New Haven, Conn.
Indianapolis Tool & Mfg. Co., Indianapolis.
Independent Die Co., Brockton, Mass. Ind.
Keene, Geo. C. & Co., Cincinnati, O.
Knox, J. E. & Co., Lynn, Mass.
Leffler, Charles & Co., Brooklyn, N. Y.
Lloyd, Jno. C. Co., 558 Water, New York
Mitchell, Jno. R. Co., Baltimore, Md.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
**NIAGARA FALLS METAL STAMPing** Works, Niagara Falls, N. Y. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Nye Tool & Machine Works, 108 S Jefferson, Chicago, Ill.
Osborne, C. S. & Co. (For Cloth, Leather & Paper), Harrison, N. J.
Oster Mfg. Co. ("Keen Kutting"), Cleveland, Ohio
Peck, Stow & Wilcox Co., Southington, Conn.
Perkins Machine Co., Warren, Mass.
Phila. Cons. Die Co., 321 Race, Phila., Pa.
Pratt & Whitney Co., Hartford, Conn.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Randall, J. D. Co. (Leather Cutting), Cincinnati, O.
Ranz Stamping Tool Co., St. Louis, Mo.
Richard Mfg. Co., Bloomsburg, Pa.
Riley-Klotz Mfg. Co., Newark, N. J.
Rochester Cutting Die Co., Rochester, N. Y.
Ross-Moyer Mfg. Co., Cincinnati, O.
Royal Machine Co., Newark, N. J.
Schatz Mfg. Co., Poughkeepsie, N. Y.
Schlueter, A. & Co., Newark, N. J.
Seecamp, H. D. Machine Co., St. Louis, Mo.
Standard Machinery Co., Providence, R. I.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index, end of book)
Stoll, D. H. Co., Buffalo, N. Y.
Stone, Thos. & Geo. M., Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
Superior Tap Co., Charlestown, N. H.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO., To**ledo, O. (See adv. index, end of book)
Tucker, W. W. & C. F., Hartford, Conn.
Verdin, Kappes & Verdin, Cincinnati, O.
V. & O. Press Co., Glendale Station, Long Island, N. Y.
**VOELKNER & HARRY MANUFACTURing** Co., 282 Woodbridge, E. Detroit, Mich. (See adv. index, end of book)
Webster & Perks Tool Co., Springfield, O.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wilcox, W. W. & Co., 325 Dearborn, Chicago, Ill.
Wootten & Peckworth, 207 Quarry, Phila., Pa.

## 2828— Dies (Drop Forging)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Cleveland Drop Forging Co., Cleveland, O.
Crucible Steel Co. of America ("La Belle"), Pittsburg, Pa.
**GARRISON, A. FOUNDRY CO., Pitts**burg, Pa. (See adv. index, end of book)
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 2829—Dies (Electrical Porcelain)

Logan, Edw. Machine Co., Trenton, N. J.

## 2830— Dies (Embossing)

**Adriance Machine Works, Brooklyn, N. Y.**
American Name Plate & Engraving Co., 352 Atlantic av, Boston, Mass.
Becker, A. Engraving Co., Boston, Mass.
**BLISS, E. W. CO., 19 Adams, Brook**lyn, N. Y. (See adv. index & branch offices, end of book)
Gardam, Wm. & Son (Inc), 80 Park pl, New
Grammes, L. F. & Sons, Allentown, Pa.
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Leffler, Charles & Co., Brooklyn, N. Y.
**NIAGARA FALLS METAL STAMP**ing Works, Niagara Falls, N. Y. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Schwerdtle Stamp Co., Bridgeport, Conn.
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Taylor-Schantz Co., Rochester, N. Y.

## 2831—Dies for Crushing Machinery

Inter-Ocean Steel Co., Railway Ex., Chicago, Ill.
Standard Steel Works Co., Harrison bldg, Phila., Pa.

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## 2832– Dies for Metal Ceilings

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)

## 2833– Dies Forming)

Bender, Ph. J. & Son, 87 Frankfort, New York
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end
Cook, H. C. Co., Ansonia, Conn. of book
Callaghan Machine & Die Co., Canton, O.
Columbus Die, Tool & Machine Co., Columbus, O.
Gardam, Wm. & Son (Inc), 80 Park pl, New York
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hatheway Mfg. Co., Bridgeport, Conn.
Konigslow, E. Stamping & Tool Works, Cleveland, O.
National Machine & Tool Co., Boston, Mass.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Ranz Stamping Tool Co., St. Louis, Mo.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Taylor-Schantz Co., Rochester, N. Y.
Verdin, Kappes & Verdin, Cincinnati, O.
**VOELKNER & HARRY MANUFACTURing Co.,** 282 Woodbridge, E., Detroit, Mich. (See adv. index, end of book)
W. & S. Mfg. Co., Worcester, Mass.
Waterbury, Farrel Foundry & Machine Co., Waterbury, Conn.

## 2834– Dies (Gas Fixture)

**AMERICAN TAP & DIE CO. (Taps & Dies),** Greenfield, Mass. (See adv. index, end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## Dies (Glove Cutting)

(See Glove Machinery)

## 2835–Dies (Machine or Solid Bolt)

**MORSE TWIST DRILL & MACHINE Co.,** New Bedford, Mass. (See adv. index, end of book)
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 2836– Dies (Opening)

Acme Machinery Co., Cleveland, O.
Errington, F. A. (Automatic), 39 Cortlandt, New York
Geometric Tool Co. (Self Opening), New Haven, Conn.
Ideal Opening Die Co., 24 West, New York
**MURCHEY MACHINE & TOOL CO.** ("Murchey," Automatic), 52 Porter, c 4th av, Detroit, Mich. (See adv. index & branch offices, end of bcok)
National Machinery Co., Tiffin, O.
Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.
Tucker, W. W. & C. F. (Automatic), 302 Asylum, Hartford, Conn.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 2837–Dies (Pipe Threading)

**AMERICAN TAP & DIE CO., Greenfield,** Mass. (See adv. index, end of book)
**ARMSTRONG MFG. CO., 278 Knowlton** av, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Ashcroft Mfg. Co., 85 Liberty, New York
**BIGNALL & KEELER MFG. CO.,** Edwardville, Ill. (Ste adv. index, end of book)
**Borden & Co. ("Beaver"),** Warren, O.
Brubaker, W. L. & Bros. (Solid Gas Pipe), Millersburg, Pa.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. W. Tap & Die Co., Pawtucket, R. I.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crown Die & Tool Co., 105 N Canal, Chicago, Ill.
Curtis & Curtis Co., Bridgeport, Conn.
Handy Mfg. Co., 71 W B'way, New York
Hart Mfg. Co. ("Duplex," "Buckeye"), Cleve-
Holroyd & Co., Waterford, N. Y. land, O.
Loew Mfg. Co. ("Loew Victor"), Cleveland, O.
**MORSE TWIST DRILL & MACHINE Co.,** (Solid) New Bedford, Mass. (See adv. index, end of book)
**MURCHEY MACHINE & TOOL CO.,** Detroit, Mich. (See adv. index, end of book)
Nye Tool & Machine Works ("Nye"), 114 N Jefferson, Chicago, Ill.
Oster Mfg. Co., Cleveland, O.
Plumbers' Sundries Co. ("Banner"), 442 Orleans, Chicago, Ill.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co. ("Reece"), Greenfield, Mass.
Reed Mfg. Co. ("Armstrong"), Erie, Pa.
Saunders & Sons, Yonkers, N. Y.
Superior Tap Co., Charlestown, N. H.
Toledo Pipe Threading Co. ("Toledo"), Toledo Ohio
**TOLEDO PIPE THREADING CO.** ("Toledo"), Toledo, O.
Walworth Mfg. Co. ("Hill's"), Boston, Mass.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, E. F. & Son Co. ("Economy"), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

## 2838– Dies (Press)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa. (See adv. index, end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Columbia Novelty Mfg. Co. (Power & Press), 1537 N B'way, St. Louis, Mo.
Cook, H. C. Co., Ansonia, Conn.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Hoggson & Pettis Mfg. Co., New Haven, Conn
Leffler, Chas. & Co., 63 Clymer, B'klyn, N. Y.
Mitchell, Jno. R. Co., Baltimore, Md.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Quadridge Mfg. Co., 119 N Canal, Chicago, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Smith, Thos. & Co., Worcester, Mass.
Standard Machine Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
**VOELKNER & HARRY MANUFACTURing Co.,** 282 Woodbridge, E., Detroit, Mich. (See adv. index, end of book)
V. & O. Press Co., Glendale Sta., L. I., N. Y.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

## 2839– Dies (Punching)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
American Die & Tool Co., Reading, Pa.
Baird Machine Co., Oakville, Conn.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Callaghan Machine & Die Co., Canton, O.
Chester Engineering & Machine Co., Chester, Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Eastern Machine & Stamping Co., Providence, R. I.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Gregg Mfg. Co., 1318 W 4th, Cleveland, O.
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Konigslow, E. Stamping & Tool Works, Cleveland, O.
Leffler, C. & Co., 63 Clymer, Brooklyn, N. Y.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Mitchell, Jno. R. Co., Baltimore, Md.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
**NIAGARA FALLS METAL STAMPing** Works, Niagara Falls, N. Y. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.
Quadridge Mfg. Co., 119 N Canal, Chicago, Ill.
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
**VOELKNER & HARRY MANUFACTURing Co.,** 282 Woodbridge, E, Detroit, Mich. (See adv. index, end of book)
V. & O. Press Co., Glendale Sta., L. I., N. Y.
W. & S. Mfg. Co., Worcester, Mass.
Wiedeke, Gustav & Co. (Rivet Punches & Dies), Dayton, O.

## 2840– Dies (Ring)

Railway Steel Spring Co. (Forged or Rolled Steel for Griffin Mills, etc), 30 Church, New York

## 2841–Dies (Rivet, for High Pressure Riveters)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 2842–Dies (Round Corner Card Cutting)

Ranz Stamping Tool Co., St. Louis, Mo.

## 2843– Dies (Rubber)

Adams, John J. (Cutting), Worcester, Mass.
Adamson Machine Co., Akron, O.
Barbour Bros. (Cutting), Trenton, N. J.
Beaudry, T. J. (Cutting), Marlboro, Mass.
Boston Die Co., Boston, Mass.
Bridgewater Machine Co., Akron, O.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Knox, J. E. & Co. (Cutting), Lynn, Mass.
Logan, Edw. Machine Co., Trenton, N. J.
Phila. Cons. Die Co., 329 Race, Phila., Pa.
Williams Foundry & Machine Co., Akron, O.

## 2844– Dies (Screw Cutting)

Bay State Tap & Die Co., Mansfield, Mass.
Billings & Spencer Co., Hartford, Conn.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Cleveland Die & Mfg. Co. (Or Thread Rolling), Cleveland, O.
Geometric Tool Co. (Self-Opening & Adjustable), New Haven, Conn.
Hart Mfg. Co. ("Duplex", "Buckeye"), Cleve-
Holroyd & Co., Waterford, N. Y. land, O.
**MORSE TWIST DRILL & MACHINE Co.,** New Bedford, Mass. (See adv. index, end of book)
**SMART, A. J. MFG. CO. ("Smart"** Spring Screw Threading Dies), Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av. Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
Toledo Pipe Threading Machine Co. ("Toledo"), Toledo, O.
**WELLS BROS. CO. ("Little Giant,"** Thread), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wiley & Russell Mfg. Co., Greenfield, Mass.
Winter Bros Co. ("Thistle"), Wrentham, Mass.

## 2845– Dies (Self-Opening)

(See also Dies, Opening)

Allen, Chas. G. Co. ("Diamond"), **Barre, Mass.**
Modern Tool Co. ("Wallace's Adjustable"), **Erie, Pa.**
Wells, F. E. & Son Co., **Greenfield, Mass.**

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## 2846— Dies (Soap)

Fries, Anthony J., 717 Sycamore, Cincinnati, O.
Houchin-Aiken Co., 37 53d, Brooklyn, N. Y.
Mooney & Bueter, 507 Jackson blvd, Chicago, Ill.
Schride, Wm., 35 Clark, Chicago, Ill.
Sowers Mfg. Co., Buffalo, N. Y.

## 2847— Dies (Solid)

Bay State Tap & Die Co., Mansfield, Mass.
Card, S. W. Mfg. Co., Mansfield, Mass.
Corbin Screw Corp., New Britain, Conn.
Crane Valve Co., Bridgeport, Conn.
Crown Die & Tool Co. ("Crown"), 107 N Canal, Chicago, Ill.
**MORSE TWIST DRILL & MACHINE** Co. (For Boynton & Plummer's Bolt Cutters & for Pipe), New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co. ("Giant" Adjustable), Hartford, Conn.
**STANDARD TOOL CO., 6900 Cen**tral av. Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## Dies (Solid Bolt)

(See Dies, Bolt Threading)

## 2848—Dies (Spring or Prong)

Carpenter, J. M., Tap & Die Co., Pawtucket, R. I.
**STANDARD TOOL CO., 6900 Cen**tral av. Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant")**, Greenfield, Mass. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 2849— Dies (Stamping)

Acme Mfg. Co., Waterbury, Conn.
Adriance Machine Works, Brooklyn, N. Y.
**AMERICAN CAN CO. (Mach'y Dep't)**, 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
American Die & Tool Co., Reading, Pa.
American Tube & Stamping Co., Bridgeport, Conn.
Avery Stamping Co., Cleveland, O.
Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn**, N. Y. (See adv. index & branch offices, end of book)
Brown, F. S. & G. L. Machine Co., Baltimore, Md.
Callaghan Machine & Die Co., Canton, O.
**CANTON FOUNDRY & MACHINE CO.** (For Sheet Metal), Cantou, O. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Consolidated Press & Tool Co., Hastings, Mich.
Cook, H. C. Co., Ansonia, Conn.
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book)
Erdle Perforating Co., Rochester, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Gardam, Wm. & Son (Inc.), 80 Park pl, New
Gem Mfg. Co. (For Flat & Drawn Work), Spruce nr. 33d, Pittsburg, Pa.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Glen Rock Stamping Co., Glen Rock, Pa.
**GLOBE MACHINE & STAMPING CO.**, 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hatheway Mfg. Co., Bridgeport, Conn.
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Hibbard, W. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Kilborn & Bishop Co., New Haven, Conn.
Konigslow, E. Stamping & Tool Works, Cleveland, O.
Leffler, Chas. & Co., 61 Clymer, Brooklyn, N. Y.
Michigan Machinery Mfg. Co., Ypsilanti, Mich.
Mitchell, John R. Co., Baltimore, Md.
Mossberg, Frank Co., Attleboro, Mass.
**NESTOR MFG. CO. (Inc.), 40 W 13th**, New York. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL WKS.**, Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Phenix Mfg. Co., Milwaukee, Wis.
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Philadelphia, Pa.
Quadride Mfg. Co., 119 N Canal, Chicago, Ill.
Ranz Stamping Tool Co., St. Louis, Mo.
Richard Mfg. Co., Bloomsburg, Pa.
Schatz Mfg. Co., Poughkeepsie, N. Y.
Smith, M. I., Bristol, Conn
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., 13 N 7th, St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.**, Toledo, O. (See adv. index, end of book)
V. & O. Press Co., Glendale Station, Boro. of Queens, N. Y.
**VOELKNER & HARRY MANUFACTUR**ing Co. (Brass), 282 Woodbridge, E., Detroit, Mich. (See adv. index, end of book)
W. & S. Mfg. Co., Worcester, Mass.
Wade Machine Co., 133 Oliver, Boston, Mass.
Walsh Press & Die Co., 4709 W Kinzie, Chicago, Ill.
Wilcox, W. W. & Co., 325 Dearborn, Chicago, Ill.
**WORCESTER PRESSED STEEL CO.**, Worcester, Mass. (See adv. index & branch offices, end of book)
Zeh & Hahnemann (For Cans, Cutlery, Hardware, etc.), Newark, N. J.

## Dies (Steam Hammer)

(See Dies, Chilled Hammer)

## 2850— Dies (Stencil Cutting)

Hanson, C. H., 44 Clark, Chicago, Ill.
Smith, R. H. Mfg. Co., Springfield, Mass.

## 2851— Dies (Sub-Press)

American Watch Tool Co., Waltham, Mass.
**BLISS, E. W. CO., 19 Adams, Brooklyn**, N. Y. (See adv. index & branch offices, end of book)
Griswold, Geo. M. Machine Co., New Haven, Conn.
Risdon Tool & Machine Co., Waterbury, Conn.
Sloan & Chace Mfg. Co., Newark, N. J.
Waltham Machine Works (For Watch & Clock Factories), Waltham, Mass.

## Dies (Thread Cutting)

(See Dies, Screw Cutting)

## 2852—Dies (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 2853— Dies (Wire Drawing)

Bassanger, Jacques & Co., 108 Fulton, New York
Hartley, Geo., Waterbury, Conn.
McFarland Foundry & Machine Works, Trenton, N. J.
Morgan Construction Co., Worcester, Mass.
Newman, C. Wire Co., 143 Liberty, New York.
Roux Wire Die Co., Rome, N. Y.
Waldeck, Anthony, Cleveland, O.
Waterbury Wire Die Co., Waterbury, Conn.

## 2854— Digesters

American Process Co. (& Cookers), 68 William, New York
Atlantic Works, 70 Border E. B., Boston, Mass.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING CO.**, Canton, O. (See adv. index, end of book)
Dempwolf, C. H. & Co., York, Pa.
Dillon, D. M., Fitchburg, Mass.
Eastwood Wire Mfg. Co. ("Perfection" Bronze for Paper Mills), Belleville, N. J.
Ervien, Chas. W. & Co., Venargo & G, Phila., Pa.
International Process Co. ("Carl P. Carlson's", for Pulp Mills, etc.), 5 Beekman, New York
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Leslie, Elliott & Co., Paterson, N. J.
McNeil Boiler Co., Akron, O.
**MacKINNON BOILER & MACHINE CO.**, Bay City, Mich. (See adv. index, end book)
Manitowoc Engineering Works (Sulphate, Rotary & Alcohol), Manitowoc, Wis.
Munroe, R. & Sons Corporation, Pittsburg, Pa.
Noble & Wood Machine Co. (Paper Mill), Hoosick Falls, N. Y.
**PETROLEUM IRON WORKS CO.** Sharon, Pa. (See adv. index & branch offices, end of book)
Petty, J. K. & Co., Stephen Girard bldg, Phila., Pa.
Pollock, Wm. B. Co. (Of Large Capacity & Pressure for Pulp Mills), Youngstown, O.
Portland Co. (For Sulphite Mills), Portland, Me.
Pusey & Jones Co. (Welded Steel), Wilmington, Del.
Renneburg, E. & Sons Co., Baltimore, Md.
Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York
Smith, Samuel & Son Co., Paterson, N. J.
Smith, Theodore & Sons Co., Jersey City, N. J.
Stuart & Peterson Co., Burlington, N. J.
Swanson Evaporator Co. (Lap Welded), Monadnock blk, Chicago, Ill.
Tippett & Wood, Phillipsburg, N. J.
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York

## 2855— Digesters (Rubber)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)

## 2856— Diggers (Beet)

Avery, B. F. & Sons, Louisville, Ky.
Bucher & Gibbs Plow Co. ("The Michigan"), Canton, Ill.
Parlin & Orendorff, Canton, O.

## 2857— Diggers (Peanut)

Cardwell Machine Co., Richmond, Va.
Champion Potato Machinery Co., Hammond, Ind.

## 2858— Diggers (Post Hole)

(See also Augers, Earth; also Augers, Post Hole.)
American Shovel & Stamping Co., Lorain, O.
Avery Stamping Co. ("Never-Break"), Cleveland, O.
Brown Mfg. Co. ("Brown Champion"), Zanesville, O.
Buckeye Mfg. Co. ("Lock Lever"), Canton, O.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Dutton, E. Q. & Co., Cato, N. Y.
Eureka Digger Co., 227 W Huron, Chicago, Ill.
Gibbs Mfg. Co. ("Columbia," "Gibbs," "National"), Canton, O.
Hubbard & Co., Pittsburg, Pa.
Humane Horse Collar Co., Omaha, Neb.
Iron City Tool Co., Pittsburg, Pa.
Iwan Bros. ("Iwan's," "Iwan's Hercules," "Split Handle," "Perfection"), South Bend, Ind.
Jackson Shovel & Tool Co. ("Montpelier," "Automatic," "Badger," "Solid"), Montpelier, Ind., & Market & Randolph, Chicago, Ill.
Klein-Logan Co., Pittsburg, Pa.
Kohler, F. E. & Co. ("Kohler," "Universal," "Little Giant," "Invincible," "Rival," "Hercules," "Champion" & "Pioneer"), Canton, O.
Ney Mfg. Co., Canton, O.
Ney, V. L. Co. ("Ney's," Lock Lever), Canton, Ohio
Ohio Cultivator Co. ("Champion"), Bellevue, Ohio
Oliver Iron & Steel Co. (Loop or Tamping Top), Pittsburg, Pa.
Osmund Son Spade Mfg. Co. ("One Minute"), Perry, Iowa
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Porter, J. E. Co. ("E-Z"), Ottawa, Ill.
Seymour Mfg. Co., Seymour, Ind.
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
Vaughn & Bushnell Mfg. Co. ("Y. & B."), 2130 Carroll av, Chicago, Ill.
Western Steel & Iron Works, De Pere, Wis.
**WHITMAN & BARNES MFG. CO.** ("National"), Akron, O. (See adv. index & branch offices. end of book)

## 2859— Diggers (Potato)

Akron Cultivator Co. ("Hist's), Akron, O.
Allen, E. R. Foundry Co. ("Boss." Potato Digging Machines), Corning, N. Y.
Allen, S. L. & Co. ("Planet, Jr." Plow, for White or Sweet Potatoes), Phila., Pa.
American Fork & Hoe Co., Cleveland, O.
Anderson, J. H. & Co. (Hand), St. Louis, Mo.
Aspinwall Mfg. Co. ("Aspinwall," Potato Digging Machines), Jackson, Mich.
Avery, B. F. & Sons ("Avery," Plow, for White or Sweet Potatoes), Louisville, Ky.
Babcock Mfg. Co. (Cummings, "Otsego," Potato Digging Machines), Leonardsville, N. Y.
Bateman Mfg. Co. ("Iron Age," Potato Digging Machines), Grenloch, N. J.

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Belcher & Taylor Agricultural Tool Co. ("Hitchcock" Plow), Chicopee Falls, Mass.
Blount Plow Works ("Blount," Plow), Evansville, Ind.
Brown, Peter & Son ("Brown" Potato Digging Machines), Greeley, Colo.
Brown-Manly Plow Co. ("Daisy Jr." Plow), Malta, O.
Bucher & Gibbs Plow Co., Canton, O.
Burch Plow Works Co. ("Burch" Plow), Crestline, O.
Champion Potato Machinery Co. ("O-K Champion" Potato Digging Machines), Hammond, Ind.
Chattanooga Plow Co. ("Chattanooga" Plow), Chattanooga, Tenn.
Davidson, Dietrich Plow Co. (Plow Diggers), Evansville, Ind.
De Shay, D. H. ("Star"), Elysburg, Pa.
Deere & Co. ("Eclipse," "Jno. Deere," "Shaker" Plow), Moline, Ill.
Donaldson Bros. ("Valley" Plow), Mount Clemens, Mich.
Doughten, H. W. ("King of Potato Field" Plow), Moorestown, N. J.
Dowden Mfg. Co. ("Dowden," Potato Digging Machines), Prairie City, Ia.
Egan Mfg. Co. ("Egan" Potato Digging Machines), La Crosse, Wis.
Eureka Mower Co. ("Eureka" Plow), Utica, N. Y.
Fetzer Wm. Co. ("McSherry," "Columbia A." "Plymouth A" Plow), Springfield, Ill.
Farquhar, A. B. Co. (Ltd.) ("O. K. Elevator", "Gilt Edge," "Success Jr."), York, Pa.
Gowanda Agricultural Works ("Hamburg," "Knox" Potato Digging Machines), Gowanda, N. Y.
Greenville Implement Co. ("Banner," Plow, Greenville, Mich.
Hamburg Plow Works ("Hamburg" Plow), Hamburg, Pa.
Hench & Dromgold Co. ("Hench & Dromgold" Plow), York, Pa.
Hoover Mfg. Co. ("Hoover" Potato Digging Machines), Avery, O.
Ireland & Helfrich, Spencerport, N. Y.
Keystone Farm Machine Co. ("Rice"), York, Pa.
Lean, Roderick Mfg. Co. ("Lean, Roderick," Plow), Mansfield, O.
Messinger Mfg. Co. ("The Champion" Plows & Machines), Tatamy, Pa.
Moline Plow Co. ("Moline Knocker" Plow), Moline, Ill.
Moore Plow & Implement Co. ("Moore" Plow), Greenville, Mich.
Mountville Mfg. Co. ("Mountville" Plow), Mountville, Pa.
Northwestern Steel & Iron Works ("Clipper" Plow), Eau Claire, Wis.
Ohio Rake Co. ("Standard", "Little Giant") Dayton, O.
Parlin & Orendorff Co. ("Canton" Plow), Canton, Ill.
Peek, S. H. ("Reuther" Potato Digging Machines), East Aurora, N. Y.
Peru Plow & Wheel Co. ("Peru"), Peru, Ill.
Platt, A. J., Sterling, Ill.
Potato Implement Co. ("Acme", Hand), Traverse City, Mich.
Racine-Sattley Co. ("Rustler" Plow), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. ("Blue Bell," "Rattler" Plow), Rock Island, Ill.
Schofield & Co. ("Schofield" Plows & Machines), Freeport, Ill.
Schrieber Mfg. Co., Hammond, Ind.
South Bend Chilled Plow Co. ("South Bend" Plow), South Bend, Ind.
Star Mfg. Co. ("Common Sense," "Killarney King" Plow), Carpentersville, Ill.
Sterling Mfg. Co. ("Sterling" Plow), Sterling
Stevens Mfg. Co., Marinette, Wis. Ill
Syracuse Chilled Plow Co. ("Syracuse" Plow) Syracuse, N. Y
Wabers, H. H. Mfg. Co., Racine, Wis.

## 2860— Diggers (Stubble)

Avery, B. F. & Sons, Louisville, Ky.
Deere & Mansur Co., Moline, Ill.
Hall, Jas. H. Plow Co., Maysville, Ky.
Moline Plow Co. ("Cap't Lafitte"), Moline, Ill

## 2861— Dimmers (Theatre)

American Electric Fuse Co. ("Allen-Bradley"), Muskegon, Mich.
Campbell Electric Co., Lynn, Mass.
Church Electrical Mfg. Co. (Battery Charging), Cincinnati, O.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch, end of book)
Independent Electrical Mfg. Co., Milwaukee.
Simplex Electrical Co., Boston, Mass. Wis.
Universal Elec. Stage Lighting Co. ("Kliegl"), 1393 B'way, New York
Ward, Leonard Electric Co., Bronxville, N. Y.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 2862— Dippers (Cream)

Chapman, C. A. ("Superior"), Geneva, N. Y.

## 2863— Dippers (Dredge)

Manitowoc Engineering Works, Manitowoc, Wis.

## 2863a—Directories for Office & Loft Buildings

**TABLET & TICKET CO., 541-553** Jackson boul, Chicago, Ill., & 381 B'way New York. (See adv. index & branch offices, end of book)

## 2864— Directory Boards

**BROWN BROS. MFG. CO. (Iron & Bronze),** 22nd & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2865— Discs (Armature)

(Iron Discs & Segments)

**AMERICAN-GOETZE GASKET & PACKing Co.** ("Goetze's" Copper Asbestos or Nickel), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Avery Stamping Co., Cleveland, O.
Cary, Edw. E. Co. (Importers), 30 Church, New York
Cleveland Armature Works, Cleveland, O.
Hendrick Mfg. Co., Carbondale, Pa.
Smith, Thomas Co., Worcester, Mass.
W. & S. Mfg. Co., Worcester, Mass.

## 2866— Discs (Fibre)

**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index, & branch offices, end of book)
**DELAWARE HARD FIBRE CO Wilmington,** Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere.** Del. (See adv. index, end of book)
**PARKER, J. C. & SONS CO., New** Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY CO.,** Wilmington, Del. (See adv. index & branch offices, end of book)

## 2867— Discs (Friction)

Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Houghton, E. F. & Co. ("Vici" Leather), 240 W Somerset, Phila., Pa.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## 2868— Discs (Grain Drill)

Indiana Rolling Mill Co., New Castle, Ind.

## 2869— Discs (Graphite)

International Acheson Graphite Co., Niagara Falls, N. Y.

## 2870— Discs (Harrow)

Cambria Steel Co. (Steel), Johnstown, Pa.
Crucible Steel Co. of America, Pittsburg, Pa.
Galesburg Coulter Disc Co., Galesburg, Ill.
Indiana Rolling Mill Co., New Castle, Ind.
Taylor, N. & G. Co., Mariner & Merchants' bldg., Phila., Pa

## 2871— Discs (Iron & Steel)

Auburn Ball Bearing Co. (Hardened Steel), Auburn, N. Y.
McInnes Steel Co., Ltd. ("McInnes" Annealed Tool Steel), Corry, Pa.
Midvale Steel Co. (Annealed Steel), Nicetown, Phila., Pa.
Nicetown Plate Washer Co., Nicetown, Phila., Pa.
Wyoming Shovel Works, Wyoming, Pa.

## 2872—Discs (Paper & Cloth)

Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.

## 2873— Discs (Radiator)

**AMERICAN-GOETZE GASKET & PACKing Co.** ("Goetz's" Copper Asbestos or Nickel), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Bliss-Chester Co., Providence, R. I.
Briscoe Mfg. Co., Detroit, Mich.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Ohio Brass Co., Mansfield, O.

## 2874— Discs (Slate)

McNamara Brothers, Fair Haven, Vt.

## 2875— Discs (Turntable)

Reeves, Paul S. & Son, 1415 Catharine, Phila., Pa.

## 2876— Discs (Valve)

**AMERICAN-GOETZE GASKET & PACKing Co.** ("Goetze's" Copper Asbestos or Nickel), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Anchor Packing Co. ("Ankorite"), Gtn. & Allegheny avs, Phila., Pa.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Bushnell, Jno. S. & Co. ("Tuf Metal"), 174 Fulton, New York
Canfield Rubber Co., Bridgeport, Conn.
Columbus Brass Work, Columbus, O.
Combination Rubber & Belting Co. (Rubber), Bloomfield, N. J.
Continental Rubber Works (Rubber), Erie, Pa.
**GOODRICH, B. F. CO. (Rubber), Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Jenkins Bros. 82 White, New York
**JOHNS-PRATT CO., THE, Hartford,** Conn.
MCrea, James & Co. ("Perfect"), 558 W Washington, Chicago, Ill.
Morgan & Wright (Inc.) ("Morganite" Rubber), Detroit, Mich.
National Tube Co. (Copper "Jenkins"), Pittsburg, Pa.
Never-Leak Disc Co. ("Never-Leak" Composition Metal), 1020 Susquehanna, Phila., Pa.
New York Belting & Packing Co. (Rubber), 91 Chambers, New York
**NEW YORK RUBBER CO. (Rubber),** Reade & Church, New York. (See adv. index, end of book)
Peerless Rubber Co. (Rubber), 16 Warren, New York
**PENNSYLVANIA RUBBER CO. (Rubber),** Jeannette, Pa. (See adv. index & branch offices, end of book)
Post, E. L. & Co. (Inc.) ("Post's" Corrugated Metal), 50 Cliff, New York
Star Brass Mfg. Co., Boston, Mass.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's I. O. P."), 48 Franklin, New York. (See adv. index, end of book)
Western Rubber Wks. (Rubber), Goshen, Ind.
Wolverine Brass Works, Grand Rapids, Mich.

## 2877—Discs & Circles (Abrasive)

Gardner Machine Co., Beloit, Wis.

## 2878— Dishers (Ice Cream)

Erie Specialty Co. ("Walker's", Aluminum & Tin), Erie, Pa.
Gilchrist Co., Newark, N. J.

## 2879— Dishes (Chafing)

American Electrical Heater Co. (Electric), Detroit, Mich.
Buckeye Aluminum Co. (Aluminum), Doyles-Buffalo Mfg. Co., Buffalo, N. Y. town, O.
Central Stamping Co., 174 Fulton, New York
**CUTLER-HAMMER MFG. CO. (Electric),** Milwaukee, Wis. (See adv. index & branch offices, end of book(
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Goodwin & Kintz Co., Winsted, Conn.
Griswold Mfg. Co. (Aluminum), Erie, Pa.

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International Silver Co., 9 Maiden la, New York
Lalance & Grosjean Mfg. Co. (Enameled), 299 B'way, New York
Landers, Frary & Clark ("Universal"), New Britain, Conn.
Manning, Bowman & Co., Meriden, Conn.
New York Stamping Co. ("Empress"), N 11th & Berry, Brooklyn, N. Y.
Simplex Electric Heating Co. ("Simplex", Electric), Cambridge, Mass.
Sternau, S. & Co., 195 Plymouth, Brooklyn, N. Y.
Sweeney, W. H. Mfg. Co. ("Royal," Copper & Nickel Plated, etc.), 30 Main, Brooklyn, N. Y.
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.

## 2880— Dishes (Paper)

Atlas Mfg. C. (Ice Cream, etc.), New Haven, Conn.
Grasberger, B. A. & Co., Richmond, Va.
Star Paper Dish Co. ("Daisy"), Richmond, Va.

## Dishes (Soap)

(See Bath Room Fixtures & Furnishings; also Enameled Ware Manufacturers)

## 2881 Dishes (Wood)

Oval Wood Dish Co., Delta, Ohio
Seton Mfg. Co., Anderson, Ind.

## 2882— Disinfectants

American Antiformin Co. ("Antiformin"), 38 Water, New York
American Aromatic Disinfector, 428 Walnut, Phila., Pa.
American Disinfecting Co., Sedalia, Mo.
Antozone Chemical Co., 25 Coenties sl, New York
Atlantic Refining Co., Cleveland, O.
Barrett Mfg. Co., 17 Battery pl, New York
Burch, F. S. & Co., 64 W Illinois, Chicago, Ill.
Burns, Foster & Co., 934 Pratt, Chicago, Ill.
Chemical Mfg. Co., Minneapolis, Minn.
Coal Tar Products Co. (Smith & Creamer), Brooklyn, N. Y., & 77 Maiden la, New York
Corbin Disinfecting Co. ("Napthol-Phenoline"), 229 S Front, Phila., Pa.
Cremoline Mfg. Co., 2113 Olive, St. Louis, Mo.
Cromwell-Walker Co., Harrison, N. J.
Dayton, Wm. H., Corlett, Cleveland, O.
Durfee Embalming Fluid Co., Grand Rapids, Mich.
Dusenberry, H. C., 95 Gold, New York
Eagle Oil & Supply Co. ("Eagleine"), 104 Broad, Boston, Mass.
Easton, A. D. Co., Cincinnati, O.
Egyptian Chemical Co., Boston, Mass.
Embalmers Supply Co., Westport, Conn.
Empire Embalming Fluid Co., 111 Water, New York
Farbenfarbriken of Elberfeld Co. ("Antinonin"), 117 Hudson, New York
Fitch Chemical Co., Bay City, Mich.
Fuerst Bros. & Co., 2 Stone, New York
Germo Mfg. Co., Sedalia, Mo.
Good, James, 939 N Front, Phila., Pa.
**GROSCHE, BRUNO & CO., 13 Jones** la, New York. (See adv. index, end of book)
Hayner, Norman C. Co. ("Killitol"), Rochester, N. Y.
Houghton, E. F. & Co. ("Houghton" Odorless), 240 Somerset, Phila., Pa.
Hunt Mfg. Co., 4099 Pearl rd, S. W., Cleveland, O.
Hygeia Napthol Co., 149 Mercer, New York
Hylo Disinfectant Co., Marshalltown, Ia.
Indianapolis Chemical Co., Indianapolis, Ind.
Kathario Chemical Co., 96 Beekman, New York
Masury, Young & Co., 196 Milk, Boston, Mass.
Minor, W. E. Disinfectant Co., Cleveland, O.
Monahan Antiseptic Co., 123 Liberty, New York
National Disinfecting Co., 306 E 59th, New York
Northwestern Mfg. Co., Indianapolis, Ind.
National Sanitary Co., Sedalia, Mo.
Numbers Disinfectant Co., Cleveland, O.
Ohio Chemical Co., Findlay, O.
Parke, Davis & Co., Detroit, Mich.
Phinotas Chemical Co., 237 Front, New York
Platt, Henry B., 42 Cliff, New York
Plunkett Chemical Co., 2243 Cottage Grove av, Chicago, Ill.
Prescott Chemical Co., Cleveland, O.
Radium Spray Co., Dallas, Tex.
Rath Mfg. Co. ("Rathola," Liquid), Hedley & Richmond, Phila., Pa.
Red Cross Hygienic Co., 1378 W Lake, Chicago, Ill.
Robachers' Disinfectant Co., 77 Kenil av, Rochester, N. Y.
Robbins Chemical Co., 523 W 45th, New York
Rochester Germicide Co., Rochester, N. Y.
Rosenstock Chemical o. ("Zodone"), 32 Union sq, New York
Sanitas Co., 640 W 55th, New York
Sholes, Chas. E. Co. ("Kersol-Raschig"), 164 Front, New York
Soudan Specialty Mfg. Co., Milwaukee, Wis.
Sulpho-Napthol Co., 14 Medford, Boston, Mass.
Sultar Co., 210 E 54th, New York
Summerville Fernoline Works, Summerville, S. C.
United Breeders Co., 120 W Kinzie, Chicago, Ill.
United Disinfecting Co., 523 W 45th, New York
Vapo-Cresoline Co., 62 Cortlandt, New York
Waelde, Herman, 732 Frankfort av, N. W., Cleveland, O.
West Disinfecting Co. (Inc.), 2 E. 42nd, New York
White Tar Co., 5 Front, New York

## 2883—Disinfecting Apparatus

(See also Machinery, Disinfecting)

American Sterilizer Co. (For Hospitals, etc.), Erie, Pa.
Bernstein Mfg. Co. (For Hospitals), 3d & Wetsmoreland, Phila., Pa
Hydro-Pneumatic Disinfecting Co., 221 Mercer, New York
Rosenstock Chemical Co. ("Ideal" Non-Ignitable), 32 Union sq New York
**VOELKNER & HARRY MANUFACTURing Co., 282 Woodbridge, E., Detroit, Mich.** (See adv. index, end of book)

## 2884— Disintegrators

American Clay Machinery Co. (Clay), Bucyrus, O.
Anderson Foundry & Machine Works, Anderson, Ind.
Atlanta Utility Works, East Point, Ga.
Austin, E. W. Co., Atlanta, Ga.
Brewer, H. & Co. (Clay), Tecumseh, Mich.
Campbell, Peter F. (Mill), 51 Laurel, Phila., Pa.
Chambers Bros. Co. (Clay), 52d, bet. Lancaster av, Phila., Pa.
Codd, E. J. Co. (For Fertilizer Plants), 700-708 S Caroline, Baltimore, Md.
Day, J. H. Co., Cincinnati, O.
Fate, J. D. Co. ((Clay), Plymouth, O.
Flynn & Emrich Co., Baltimore, Md.
Hancock-Holmes Foundry & Machine Works, Atlanta, Ga.
Holmes & Blanchard Co., Boston, Mass.
**JEFFREY MFG. CO. (Coal, etc.),** Columbus, O. (See adv. index & branch offices, end of book)
**LINK BELT CO. (For Coal, etc.),** Hunting Park av & Reading Ry. Phila., Pa. (See adv. index & branch offices, end of book)
Marquette, Jno. N., 507 S Eden, Baltimore, Md.
Martin, Henry Brick Machine Mfg. Co. (Clay). Lancaster, Pa.
Paxson, J. W. Co. (Sand), 1021 N. Del. av Phila., Pa.
Potts, C. & A. & Co. (Clay), Indianapolis, Ind.
Pratt Engineering & Machine Co., Atlanta, Ga.
Rockwood Mfg. Co., Indianapolis, Ind.
Ross, Chas. & Son Co., 20 Steuben, Brooklyn N. Y.
Sackett, August J. (Fertilizer, etc.), 5th & First, Baltimore, Md.
**STANDARD SAND & MACHINE CO.** (Sand, "Standard" Centrifugal), 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Stedman's Foundry & Machine Works (Clay). Aurora, Ind.
Steele, J. C. & Son, Statesville, N. C.
Walker & Elliott, Wilmington, Del.
Wellington Machine Co. (Clay), Wellington, O
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

## 2885— Disintegrators (Sugar)

Mead & Co., Detroit, Mich.

## Display Fixtures

(See Window Display Fixtures)

## 2886— Distilling Apparatus

(See also Stills of Various Kinds)

**BADGER, E. B. & SONS CO. ("Badger,"** (For Alcohol, Rum, Wood, etc.), 75 Pitts, Boston, Mass. (See adv. index, end of book)
**GRISCOM-SPENCER CO. (Water, also** Salt Water), 90 West, New York. (See **adv. index & branch offices, end of book)**
Heil, Henry Chemical Co., St. Louis, Mo.
Wood Waste Distilleries Co. (Inc.) (For Denatured Alcohol, etc.), Wheeling, W. Va.

## 2887— Distributors (Rotary)

McKee, Arthur G., Cleveland, Ohio

## 2888—Ditcher, Grader & Loader Combined

American Road Machine Co., Kennett Square, Pa.
Indiana Road Machine Co., Fort Wayne, Ind.
**MARION STEAM SHOVEL CO.,** Marion, O. (See adv. index & branch offices, end of book)
Western Wheeled Scraper Co., Aurora, Ill.

## Ditching Machines

(See Ditching Machines in Machinery Lists; also Road Machines & Graders)

## 2889— Divers (Submarine)

Bundick, Jno. S., 49 South, New York.
Christensen, E. T., 130 Pearl, New York
Craemer, Fred., 1220 Beach, Philadelphia, Pa.
Dunham Towing & Wrecking Co., 210 S Water, Chicago, Ill.
Jenks, Edward B. Co., 143 Liberty, New York
Larkin, Peter, 3 Coenties Slip, New York
Merritt & Chapman Derrick & Wrecking Co., 17 Battery pl, New York
Nickerson, Jas. E. & Co., 195 Atlantic av, Boston, Mass.
Phillips, H. W., Quincy, Mass.
Scott, Thos. A. Co., New London, Conn.
Sorenson, Alfred, 36 Atlantic av, Boston, Mass.
Townsend, Geo. W., 202 Atlantic av, Boston, Mass.
Wolters, M., 318 Waltnut, Phila., Pa.

## 2890— Dividers

(See also Compasses)

Athol Machine Co. ("Premier" & "A. M. C."), Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Eagan, Thos. F. ("Copeland & Cook" Expansion), Worcester, Mass.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
Johnson, Wm. (Hedenberg Works), ("Cook's" Pattern Expansion Wing, etc.), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Massachusetts Tool Co. (Spring), Greenfield, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Peck, W. A., New Haven, Conn.
Schollborn, Wm. Co. ("Excelsior"), New Haven, Conn.
**STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)**
Union Caliper Co., Orange, Mass.
Welles, F. A., Waukesha, Wis.

## 2891— Diving Apparatus

Hale, Alfred Rubber Co., S B, Boston, Mass.
Merrill-Stevens Engineering Co., Jacksonville, Fla.
Morse, A. J. & Son (Inc.), Boston, Mass.
Schrader's, A. Son, 30 Rose, New York

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## 2892— Dock Builders

### CALIFORNIA.

SAN FRANCISCO—American Dredging Co.
Atlantic Gulf & Pacific Co., Monadnock bldg
City Street Improvement Co.
Healy-Tibbetts Construction Co.
Hyde, Harjes & Co., 112 Market
Pacific Construction Co., 16 Cal.
San Francisco Bridge Co., Monadnock bldg
Thomson Bridge Co., 103 Main

### CONNECTICUT.

BRIDGEPORT—Blackman, M. A.
Toole & Sunderlin, 83 Fairfield av
NEW HAVEN—New Haven Rigging Co.
Waterhouse, C. R. Jr.
NEW LONDON—Scott, Thomas A. Co.

### DELAWARE.

WILMINGTON—Wills, F. K., Construction Co.

### FLORIDA.

JACKSONVILLE—Cotter, Wm. T.

### GEORGIA.

SAVANNAH—Ross, P. Sanford

### ILLINOIS.

CHICAGO—Fitzimons & Connell Co., 131 La Salle
Great Lakes Dredge & Dock Co., Chamber of Commerce bldg
Kearns, T. A. Co., 277 Dearborn
**RAYMOND CONCRETE PILE CO.,** 135 Adams (See adv. index, end of book)
Stebbings, W. L. (Coal, Ore, etc.), 98 Jackson, blvd.
**STEWART, JAS. & CO., Fisher bldg**

### MAINE.

PORTLAND—Bennett, W. F. & Son

### MARYLAND.

BALTIMORE—Glenn, Benj., 2300 E Baltimore
McLean Contracting Co., Maryland Trust bldg
Maryland Dredging & Contracting Co., Fidelity bldg
Sanford & Brooks Co., 24 Commerce

### MASSACHUSETTS.

BOSTON—Cavanagh Bros., 471 Dorchester av
Cavanagh, Geo. H., 166 Devonshire
Cram, D. Henry, 23 Power
Derry, Chas. T., 68 Devonshire
Ellis, W. H., 18 Tremont
Hayes, Geo. Co.
Hersey, A. A., 362 Border
Lawler Bros, 16 City sq, Ch's'n
Miller, Wm. L., 166 Devonshire
Norton, W. A. Co., 285 Dorchester av
Rendle, W. S., 135 Prescott
Ruggles, Thos. E., 95 Milk
Tidd, L. R., 166 Devonshire
CAMBRIDGE—Scully, Jno. T. Foundation & Transportation Co.
FALL RIVER—Terry, Jos. C.

### MICHIGAN.

DETROIT—Boston, Chas. & Sons, 2177 W Jefferson
Candler Dock & Bridge Bldg., Co., 26 Lafayette av
Dupuis, A. J. C., 1109 Ford
Ginzel, John, Co., 46 Buhl bldg
Griffin, M. J., 169 Stanton av
MARQUETTE—Powell & Mitchell
SAULT SAINTE MARIE—Great Lake Dredge & Dock Co.

### MINNESOTA.

DULUTH—Duluth-Superior Dredging Co.
Great Lakes Dredge & Dock Co.

### NEW JERSEY.

CAMDEN—Henhoeffer & Vaugh
Sweeten, B. F. & Son
ELIZABETH—N. J. Dock & Bridge Bldg Co.
JERSEY CITY—Ross, P. S., 277 Washington
Stillman, F. M. Co., 26 Exchange pl
United Contractors Corporation
LONG BRANCH—Melee, Owen, J.
PERTH AMBOY—Hanson, Jacob

### NEW YORK.

BUFFALO—Buffalo Dredging Co., D. S. Morgan bldg
Burgard, Henry P. Co.
Chapman, A. F. & Co.
Horton, D. E. Construction Co.
Lake Erie Dredging Co., D. S. Morgan bldg
Leh, Jeremiah H., 274 Massachusetts av
Parks, Geo. & Sons
KINGSTON—Powley, Jos. L., Construction Co.
NEWBURGH—Parrott, Richard, 355 B'way

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Cronin, Barth S. & Co., 573 Clinton
Humphreys, George 575 Clinton
Kirkham, H. P. & Son, ft of Conover
Leary, Jas. D. & Son, Provost nr Eagle
Walsh, John D., 397 Hancock

#### Boroughs of Manhattan & Bronx.

NEW YORK—Brooks, F. L. Co., 258 E 138th
Degnon Contracting Co., 60 Wall
Empire Eng. Corporation, 60 Wall
Foundation Co. (Engineers & Contractors, Concrete Piles & Steel & Wooden Sheetings), 115 B'way
General Contracting & Engineering Co., 29 B'way
Hanover Land & Dock Co., 35 Wall
Hazell, Arthur M., 11 B'way
Hood, R. H. Co., 299 B'way
Jenks-Asserson Construction Co., 59 Pearl
Monks, John & Sons, 82 Beaver
**RAYMOND CONCRETE PILE CO.,** (Concrete), 140 Cedar. (See adv. index, end of book)
Rogers, G. W. & Co., 29 B'way
Rolf, Bernard, 39 Cortlandt
Seely-Taylor Co., 78 Broad
Spearin & Preston, 90 West
Staats, R. P. & J. H., 29 B'way
**STEWART, JAS. & CO., 30 Church**

#### Borough of Queens.

LONG ISLAND CITY—Hart, Hugh

#### Borough of Richmond.

PORT RICHMOND—Conklin, Hiram M., Richmond ter

### OHIO.

ASHTABULA—Laird, Jas. G.
CLEVELAND — American Construction Co., Rockefeller bldg
Carey Construction Co. (Concrete)
Fath, C. H. & Son Construction Co.
Fath Construction Co.
Great Lakes Dredge & Dock Co., 1630 Williamson bldg
Hunkin-Conkey Construction Co.
Standard Contracting Co., Wade bldg
Strong, Chas. H. & Son, Cuyahoga bldg
TOLEDO—Great Lakes Dredge & Dock Co.

### PENNSYLVANIA.

CHESTER—Roberts, Edward H.
PHILADELPHIA — American Dredging Co., Mariner & Merchant bldg
Armstrong & Latta, Land Title bldg
Atlantic Dredging Co., Franklin B'k bldg
Brenneman, J. E., 1523 S Front
PITTSBURG—Enterprise Contracting Co., Fulton bldg

### RHODE ISLAND.

PROVIDENCE—Stender, Frank C. & Co., 139 Rhodes
SAUNDERSTOWN—Saunders, Stillman

### SOUTH CAROLINA.

CHARLESTON—Kramer, B. F.

### VIRGINIA.

NORFOLK—Murray, W. D. & Co.
Sanford & Brooks Co.
PORTSMOUTH— Cross, E. & Son Co.
URBANNA—Wagner, L. B.

### WASHINGTON.

SEATTLE—International Contract Co.
Puget Sound Bridge & Dredging Co.
TACOMA—Bertelson & Sons
Burgeson, C. F.
Rutherford, D. W.

### WISCONSIN.

MILWAUKEE—Hathaway, J. E. & Co.
Starke, C. H. Dredge & Dock Co.
SUPERIOR—Schmidt Bros. & Hill
Whitney Bros. Co.

## Doctors & Feeds (Calender)

Dillon Machine Co., Lawrence, Mass.

## 2893— Dogs (Bench)

Stortz, John & Son, 210 Vine, Phila., Pa.

## 2894— Dogs (Bent Tail)

Le Count, Wm. G., South Norwalk, Conn.

## 2895— Dogs (Bolt)

Le Count, Wm. G., South Norwalk, Conn.

## 2896— Dogs (Cable)

**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 2897— Dogs (Clamp)

Armstrong Bros. Tool Co., 339 N San Francisco av, Chicago, Ill.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Fitchburg Machine Works, Fitchburg, Mass.
Le Count, Wm. G. (Steel & Malleable Iron), South Norwalk, Conn.
Western Tool & Mfg. Co., Springfield, O.

## 2898— Dogs (Die)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Fitchburg Machine Works, Fitchburg, Mass.
Putnam Machine Co., Fitchburg, Mass.

## 2899— Dogs (Lathe)

Armstrong Bros. Tool Co., 339 N San Francisco av, Chicago, Ill.
Ayes & Co. ("Le Count" Pattern), 812 Ellen, Chicago, Ill.
Besly, Chas. H. & Co. (Heavy Steel), 124 N Clinton, Chicago, Ill.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Bonney Vise & Tool Works (Inc.) ("Indispensable" Drop Forged, etc.), Allentown, Pa.
Chester Steel Castings Co., Chester, Pa.
Le Count, Wm. G. (Double Tail Heavy Steel), South Norwalk, Conn.
Mark Mfg. Co., Evanston, Ill.
O. K. Tool Holder Co., Shelton, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Union Caliper Co. ("Hill" Drop Forged), Orange, Mass.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Western Tool & Mfg. Co., Springfield, O.
Williams, J. H. & Co. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y.

## 2900— Dogs (Pinch)

(For Foundry Use)

Cleveland Fillet Co., (Pattern Makers) Cleveland, O.
Cleveland Galvanizing Works Co., Cleveland, O.
Diamond Clamp & Flask Co., Richmond, Ind.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Shanafelt Mfg. Co., Canton, O.

## 2901— Dogs (Rafting)

American Logging Tool Co., 150 Michigan av, Chicago, Ill.
**CARPENTER, GEO. B. & CO., 202 S.** Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Works, Evart, Mich.
New Castle Forge & Bolt Co. (Also Chain), New Castle, Pa.
Southern Supply Co. (Rafting), Mobile, Ala.
**UNION ELEVATOR & MACHINE CO.** (Chains, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Warren Axe & Tool Co., Warren, Pa.
Zelnicker, Walter A. Supply Co. (Chain & Ring), 408 N 4th, St. Louis, Mo.

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## 2902— Dogs (Ring)

American Logging Tool Co., 150 Michigan av, Chicago, Ill.
Hayden-Corbett Chain Co. ("Baltimore"), Columbus, O.
New Castle Forge & Bolt Co., New Castle, Pa.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 2903— Dogs (Saw Mill)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American" Giant Duplex & "Knight's"), 50 Church New York. Works: Hackettstown, N. J.
Atkins, E. C. & Co., Indianapolis, Ind.
Canton Saw Co., Canton, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Diamond & Dittenbenner"), Minneapolis, Minn.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Filer & Stowell Co., Milwaukee, Wis.
Frick Co., Waynesboro, Pa.
Garland, M. Co. (Double Grip), Bay City, Mich.
Henderson, W. K. Iron Works & Supply Co., Shreveport, Iowa
Hill, W. E. & Co. (Double Tooth), Kalamazoo, Mich.
Hinds, Thos. Co., Malonet, N. Y.
Howell, R. R. & Co., Minneapolis, Minn.
Knight Mfg. Co., Canton, O.
Lane Mfg. Co., Montpelier, Vt.
Lippert, E. T. Saw Mfg. Co., Millvale, Pa.
Phoenix Mfg. Co., Eau Claire, Wis.
Rockwood Mfg. Co., Indianapolis, Ind.
Sinker-Davis Co., Indianapolis, Ind.
Soule Steam Feed Works, Meridian, Miss.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Stearns Co., The, Erie, Pa.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

## 2904— Dogs (Stone)

**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 2905—Dogs (Straight Tail)

Bonney Vise & Tool Works (Inc.) (Steel), Allentown, Pa.
Le Count, Wm. G. (With Steel Screws), South Norwalk, Conn.

## 2906— Dogs (Timber)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
**ANDERSON FORGE & MACHINE CO.,** 271 Guoin, Detroit, Mich. (See adv. index, end of book)
**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Works, Evart, Mich.
New Castle Forge & Bolt Co. (Also Chain), New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond Va
Oliver Iron & Steel Co., Pittsburg, Pa.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Southern Hardware & Supply Co. (Rafting), Mobile, Ala
Standard Chain Co., Pittsburg, Pa.
Wickes Bros., Saginaw, Mich.

## 2907— Doilies (Paper)

Dennison Mfg. Co., Boston, Mass.
Japanese Tissue Mills (Paper), Holyoke, Mass.
**Milwaukee Lace Paper Co. (Paper), Milwaukee, Wis.**

## 2908— Dollies (Lumber)

Buda Co., Railway Exch. bldg., Chicago, Ill.
**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
Clark, J. R. Co., Minneapolis, Minn.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Gerlach, Peter Co., Cleveland, O.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Morley Bros (Inc.), Saginaw, Mich.
Ohio Ceramic Engineering Co., Cleveland, O.
Payne & Joubert, New Orleans, La.
Soule Steam Feed Works, Meridian, Miss.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 2909—Domes (Revolving, for Observatories)

**KRATZER, W. N. & CO. (Steel), 3218** Smallman, Pittsburg, Pa. (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

## 2910— Door Bumpers

Ashtabula Mfg. Co. ("Hubbard's" Patent Metallic Seamless), Ashtabula, O.
Champion Safety Lock Co. ("Champion Never-Break" Metallic), Geneva, O.
Elastic Tip Co., 370 Atlantic av, Boston, Mass.
Shelby Spring Hinge Co., (Also Screen Doors) Shelby, O.

## 2911—Door Check & Spring Mfrs.

Barnett, Oscar Foundry Co. ("Barnet Pneumatic"), Newark, N. J.
Bardsley, Jos., 149 Baxter, New York
Bayer-Gardner-Himes Co. ("B. G. H."), 159 W 29th, New York

BOMMER SPRING HINGES
255 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Caldwell Mfg. Co. (Checks, "Dime," "Caldwell"), Rochester, N. Y.
Corbin, P. & F., New Britain, Conn.
General Specialty Co. ("Dorecheck"), 24 S 7th, Phila., Pa.
Larimer Mfg. Co., Eola, Ill.
Norton Door Check Co., 102 Pearl, Boston, Mass.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pullman Mfg. Co., Rochester, N. Y.
Reading Hardware Co. ("Ogden" Liquid), Reading, Pa.
Rixson, Oscar C. Co. ("Rixson" Liquid, Single & Double Acting), 540 W Harrison, Chicago, Ill.
Russell & Erwin Mfg. Co. ("Russwin" Liquid), New Britain, Conn.
Safety Door Check Co., Springfield, Mass.
Sargent & Co. ("Sargent", Liquid, "Eclipse"), New Haven, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
**WORCESTER MFG. CO. ("Blount** Improved"), 10 E Worcester, Worcester, Mass. (See adv. index, end of book)
Yale & Towne Mfg. Co. ("Blount" Liquid), 9 Murray, New York

## 2912— Door Closers

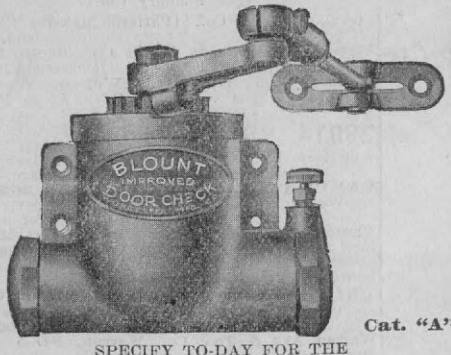
BOMMER SPRING HINGES
255 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

## 2913— Door Hangers

Allith Mfg. Co. ("Reliable"), W Taylor c S 43d av, Chicago, Ill.
**ARCADE MFG. CO. ("New Warner",** "Freeport" Parlor), Freeport, Ill. (See adv. index, end of book)
Burkhardt, John (Bronze), 614 W 55th, New York
Central City Bolt Co. ("The Barry"), Syracuse, N. Y.
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
**CHISHOLM & MOORE MFG. CO.,** 49th & Lake, Cleveland, O. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co., Holyoke, Mass.

Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.




SPECIFY TO-DAY FOR THE WORCESTER BLOUNT

Blount Improved Door Check
AND HOLDER—AUTOMATICALLY HOLDING THE DOOR ANYWHERE DESIRED
ADJUSTABLE WITHOUT A TOOL
ALSO MADE WITHOUT HOLDER DEVICE
Worcester Manufacturing Co.
Cat. "A" (INC.)
10 E. Worcester St. WORCESTER, MASS.

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Coleman Hardware Co. (Barn), 168 Michigan av, Chicago, Ill.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Dille & McGuire Mfg. Co. (Trackless), Richmond, Ind.
Dix Mfg. Co. ("Dix" Noiseless), Baltimore, Md.
Edson Mfg. Co., 82 Gold, New York
Griffin Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hunt, Helm, Ferris & Co. ("Cannon Ball"), Harvard, Ill.
Lane Bros. Co., Poughkeepsie, N. Y.
Lawrence Bros. (Also Roller Bearing), Sterling, Ill.
Louden Machinery Co., Fairfield, Ia.
**McCABE HANGER MFG. CO. (Ball-Bearing & Tubular), 425 W 25th, New York (See adv. index, end of book)**
McKinney Mfg. Co. (Barn Door), N S, Pittsburg, Pa.
Martin, S. B. ("Martin's"), Dalton, O.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Mfg. Co. ("Silent"), Sterling, Ill.
**NEWHALL, HENRY B., 90 West, New Ney Mfg. Co., Canton, O. York**
Pacific Tank & Pipe Co. ("Pitcher" Sliding), San Francisco, Cal., & Los Angeles, Cal.
Payne, Wm. M. (Barn), Springfield, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
**Porter, J. E. Co., Ottawa, Ill.**
**Prouty, T. C. Co. (Ltd.) (Ball & Roller Bearing), Albion, Mich.**
**Reading Hardware Co., Reading, Pa.**
Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, N. Y.
**RICHARDS - WILCOX MFG. CO.** Residence, Flats, Apartments, "Hero" "Palace," "LeRoy," "Royal," "Advance," "Rambler," "Simplex," "Model," "Champion"), 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)
**Richey, Browne & Donald (Crescent), Maspeth, Borough of Queens, New York City**
Safety Door Hanger Co. ("World's Best", "Red Rib" & "Wizard" Adjustable), Ashland, O.
**Sharon Hardware Mfg. Co. ("Sharon" Flexible), Sharon, Pa.**
**Strickler Hay Tool Co. ("Strickler"), Janesville, Wis.**
Stearns, E. C. & Co. ("Warner's" Parlor Door), Syracuse, N. Y.
Stowell Mfg. & Foundry Co. ("Wilborn Adjustable," "Ajax Hinged," "Matchless Loose Axle," "Nansen's" & "Atlas" Roller Bearing), South Milwaukee, Wis.
Swett, A. L. Iron Works, Medina, N. Y.
Swineford, G. A. Co., Canton, O.
Victor Mfg. Co., Newburyport, Mass.
Wagner Mfg. Co. ("Wagner Leader" Door Hanger & Track), Cedar Falls, Ia.
**WHITMAN & BARNES MFG. CO. ("W. & B. Swing"),** Akron, O. (See adv. index & branch offices, end of book)
Whitaker Mfg. Co. ("Whitaker"), 509 W Monroe, Chicago, Ill.
**WINSLOW BROS. CO. ("Winslow"** Ball Bearing), 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wrightsville Hdwre. Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 2914—Door Hangers (Accordion or Folding)

**McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)**

## 2915—Door Hangers (Adjustable)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2916—Door Hangers (Auditorium)

**RICHARDS - WILCOX MFG. CO.** (Folding) 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)
Coburn Trolley Track Mfg. Co., Holyoke, Mass.

## 2917—Door Hangers (Barn or Warehouse)

Allith Mfg. Co. ("Reliable"), W Taylor c S 43d av, Chicago, Ill.
American Foundry & Mfg. Co., St. Louis, Mo.
Arnold Co. ("Arnold," "Best," "Boss," "Duplex," etc), Norwalk, Conn.
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
**CHISHOLM & MOORE MFG. CO.** (Warehouse Only), 49th & Lake, Cleveland, O. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co. ("Coburn"), Holyoke, Mass.
Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Cronk & Carrier Mfg. Co. (Steel Roller Bearings & Loose Axle), Elmira, N. Y.
Griffin Mfg. Co., Erie, Pa.
Hackney Mfg. Co. ("Peerless"), St. Paul, Minn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hunt, Helm, Ferris & Co. ("Star," "U. S.," "Giant," "Knoxall," "20th Century," Plain & Ball Bearing, Harvard, Ill.
Hurst, H. L. Mfg. Co., Canton, O.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Lane Bros. Co., Poughkeepsie, N. Y.
Lawrence Bros. ("Lawrence" Trolley, "Cyclone" Tandem, "Clipper," "Union," "New Endless," "New Giant," "King Bee," "Cleveland," "Century," "Hummer," "Peerless," "Sterling City," also Roller Bearing), Sterling, Ill.
Louden Machinery Co. ("Louden," "Royal"), Fairfield, Ia.
**McCABE HANGER MFG. CO. (Ball-Bearing, etc.),** 425 W 25th, New York. (See adv. index, end of book)
McKinney Mfg. Co., N. S, Pittsburg, Pa.
Martin, S. B. ("Martin Wonder"), Dalton, Ohio
**MYERS, F. E. & BRO. ("Myers' Adjustable Tandem," "O. K." & "Stayon" Flexible, "Sure Grip" Flexible, "Sure Grip" Tandem Flexible, "Sure Grip" Adjustable Tandem "O. K. Adjustable", "New Way" & "Tubular"),** Ashland, O. (See adv. index & branch offices, end of book)
National Mfg. Co. ("National," "Big 4," Flexible, Anti-Friction), Sterling, Ill.
New England Butt Co. ("New England"), Providence, R. I.
**NEWHALL, HENRY B., 90 West, New Ney Mfg. Co., Canton, O. York**
Ohio Farmer's Hay Tool Co., Canton, O.
Peck, Stow & Wilcox Co. ("P., S. & W."), Southington, Conn.
Penn Hardware Co., Reading, Pa.
Porter, J. E. Co. ("Whirlwind," "Can'tget-off" & "Porter's"), Ottawa, Ill.
**Prouty, T. C. Co. (Ltd.) (Roller Bearing), Albion, Mich.**
Racine Malleable & Wrought Iron Co. ("Wilbern"), Racine, Wis.
Reading Hardware Co., Reading, Pa.
Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York
**RICHARDS - WILCOX MFG. CO.** ("Richards," Ball Bearing, "Acme," "Ajax," "Duplex," "Everson," "Gem," "Richards Boss," "Richard Peerless," "King," "Samson," "Standard," "Superior," "Sure-On," "U. S." "Victor," "World," "Expansion," "Jumbo," "Hercules," "New Jap," "Nero," "Erie," "L. T.," "O. K.," "Wilcox World Wide" Roller Bearings, etc.) 3d & Q sts, Aurora, Ill. (See adv. index, & branch offices, end of book)
**Richey, Browne & Donald ("Crescent"), Maspeth, Borough of Queens, New York City**
Ricker Mfg. Co. ("Eagle," Roller Bearing), Rochester, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
Safety Door Hanger Co. ("Safety," "Storm King," "World's Best," "U. S. Standard," "Wizard," "Adjustable"), Ashland, O.
Sargent & Co., New Haven, Conn.
Sharon Hardware Mfg. Co. ("Penn," "Sharon," "Common"), Sharon, Pa.
Souther, E. E. Iron Co. ("Run Easy"), St. Louis, Mo.
**Strickler Hay Tool Co. ("Strickler"), Janesville, Wis.**
**Stowell Mfg. & Foundry Co. ("Ajax," "Nansen," "Rex," "Wilbern," "Matchless," "Wilbern Adjustable," "Wild West" & "Matchless"), S Milwaukee, Wis.**
Swett, A. L. Iron Works ("Pilot"), Medina, N. Y.
**Swineford, G. A. Co. ("Hinge-Stay-On"), Canton, O.**
Taylor & Boggis Foundry Co., Cleveland, O.
Union Mfg. Co. ("Union"), New Britain, Conn.
Victor Mfg. Co., Newburyport, Mass.
Wagner Mfg. Co. ("Wagner Leader"), Cedar Falls, Ia.
Whitaker Mfg. Co. ("Whitaker"), 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO. ("W. & B. Swing"),** Akron, O. (See adv. index & branch offices, end of book)
Wrightsville Hardware Co., Wrightsville, Pa.

## 2918— Door Hangers (Car)

**CHISHOLM & MOORE MFG. CO.** ("Moore's" Baggage Door), 49th & Lake, Cleveland, O. (See adv. index, end of book)
Jones Car Door Co., Monadnock blk, Chicago,
**McCABE HANGER MFG. CO. (Ball-Bearing, etc.),** 425 W 25th, New York. (See adv. index, end of book)


Fig. 1154

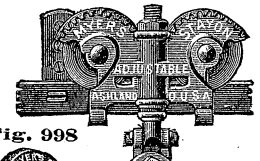


Fig. 998



# MYERS STAYON DOOR HANGERS

## FOR BARNS, WAREHOUSES, Etc.

THE MYERS STAYON and NEW-WAY DOOR HANGERS for flat and tubular track are perfect in construction and operation. They are Flexible and Cannot be Thrown Off the Track. Fitted with Large Track Wheels with Roller Bearings. Have Perpendicular and Lateral Adjustments.

Fig. 1421

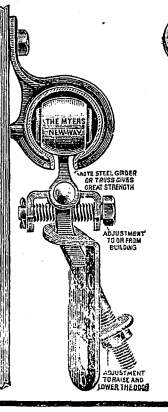
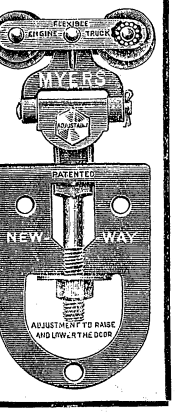


Fig. 1420



## F. E. MYERS & BRO.

Ashland Pump and Hay Tool Works. ASHLAND, OHIO


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**NEWHALL, HENRY B., 90 West, New York**

Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York

**WINSLOW BROS. CO. ("Winslow"** Ball Bearing), 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2919– Door Hangers (Elevator)

**CHISHOLM & MOORE MFG. CO., ("Moore's," Anti-Friction Roller Bearing),** 49th & Lake, Cleveland, O. (See adv. index, end of book)

Lane Bros. Co., Poughkeepsie, N. Y.

**McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)**

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

**NEWHALL, HENRY B., 90 West, New York**

Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.

Reliance Ball Bearing Door Hanger Co. ("Reliance"), 1 Madison av, New York

**RICHARDS - WILCOX MFG. CO.** Ball & Roller Bearing, "Invincible"), 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)

Stowell Mfg. & Foundry Co. (Loose Axle & Roller Bearing), S Milwaukee, Wis.

**WINSLOW BROS. CO. ("Winslow"** Ball Bearing), 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2920– Door Hangers (Fire)

**Allith Mfg. Co. (Automatic), W Taylor c S 43d av, Chicago, Ill.**

Brewer Bros. (Sliding), 614 Filbert, Phila., Pa.

**California Fire Proof Door Co. ("Wilcox"), Los Angeles, Cal.**

Lane Bros. Co., Poughkeepsie, N. Y.

**McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)**

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

**NEWHALL, HENRY B., 90 West, New York**

Peters, Jas. & Son (Sliding), 1934 N Front, Phila., Pa

Prouty, T. C. Co. (Ltd.) (Roller Bearing), Albion, Mich.

Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York

**RICHARDS - WILCOX MFG. CO.** (Ball Bearing, also Fixtures), 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)

Richmond Safety Gate Co., Richmond, Ind.

Stowell Mfg. & Foundry Co. ("Wilbern Adjustable," "Underwriters"), S Milwaukee, Wis.

Victor Mfg. Co., Newburyport, Mass.

**WINSLOW BROS. CO. ("Winslow"** Ball Bearing), 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2921–Door Hangers (Flexible)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2922–Door Hangers (Noiseless House)

**RICHARDS - WILCOX MFG. CO.** 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)

## 2923– Door Hangers (Parlor)

**ARCADE MFG. CO. ("Warner", also** "Freeport"), Freeport, Ill. (See adv. index, end of book)

Central City Bolt Co. ("Barry"), Syracuse, N. Y.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.

Dix Mfg. Co. ("Dix" Noiseless), Baltimore, Md.

Edson Mfg. Co., 82 Gold, New York

Hunt, Helm, Ferris & Co. ("Cannon Ball", Roller Bearing), Harvard, Ill.

Lane Bros. Co., Poughkeepsie, N. Y.

Lawrence Bros. ("Easy," "Lawrence"), Sterling, Ill.

Luitiank & Sons Mfg. Co., Milwaukee, Wis.

**McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)**

National Mfg. Co. ("Silent"), Sterling, Ill.

**NEWHALL, HENRY B., 90 West, New York**

Prouty, T. C. Co., Ltd. (Ball Bearing), Albion, Mich.

Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York

**RICHARDS - WILCOX MFG. CO.** ("Trolley," Ball & Roller Bearings, etc.) 3d & Q sts, Aurora, Ill. ((See adv. index & branch offices end of book)

Richey, Browne & Donall (Crescent), Maspeth, Borough of Queens, New York City

Stearns, E. C. & Co. ("Gem", "Warners", "Royal", "Challenge" & "Stearns"), Syracuse, N. Y.

Stowell Mfg. & Foundry Co. ("Acme Adjustable," "Stowell"), S. Milwaukee, Wis.

**WINSLOW BROS. CO. ("Winslow"** Ball Bearing), 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 2924–Door Hangers (Sliding or Folding)

Allith Mfg. Co. ("Reliable"), Taylor c S. 43d av, Chicago, Ill.

Dille & McGuire Mfg. Co. (McGuire Trackless), Richmond, Ind.

**McCABE HANGER MFG. CO. (Ball-Bearing & Tubular), 425 W 25th, N. Y. (See adv. index, end of book)**

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

**NEWHALL, HENRY B., 90 West, New York**

Pacific Tank & Pipe Co. ("Pitcher" Sliding), San Francisco, Cal., & Los Angeles, Cal.

Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York

Richey, Browne & Donald (Crescent), Maspeth, Borough of Queens, New York city

## 2925–Door Hangers (Stay On)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 2926–Door Hangers (Swivel)

**RICHARDS - WILCOX MFG. CO.** 3d & Q sts, Aurora, Ill. (See adv. index & branch offices end of book)

## 2927–Door Hangers (Trolley & Track)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

**NEWHALL, HENRY B., 90 West, New York**

Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.

Prouty, T. C. Co. (Ltd.), Albion, Mich.

**RICHARDS - WILCOX MFG. CO.** 3d & Q sts, Aurora, Ill. (See adv. index & branch offices end of book)

Wagner Mfg. Co. ("Leader"), Cedar Falls, Iowa

## Door Holders

(See Door Stops)

## 2928– Door Knobs (Brass & Bronze)

Barrows Lock Co., Lockport, Ill.

Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.

Chicago Hardware Co., North Chicago, Ill.

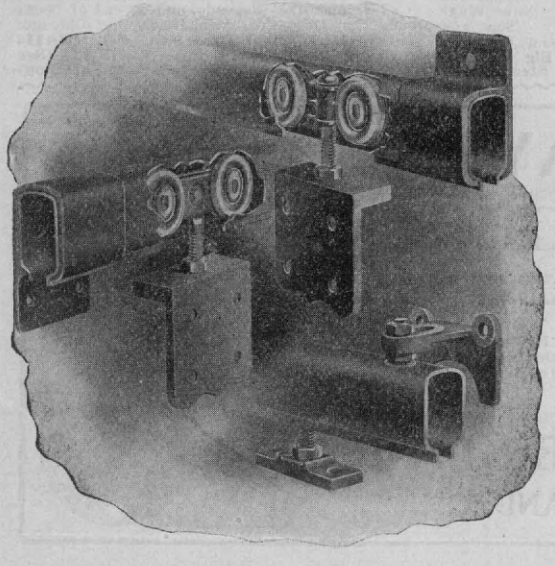
Corbin Cabinet Lock Co., New Britain, Conn.

Norwalk Lock Co., S Norwalk, Conn.

Peck, Stow & Wilcox Mfg. Co., Southington, Conn.

Penn Hardware Co., Reading, Pa.

Reading Hardware Co., Reading, Pa.

# Ball Bearing Door Hangers

FOR ALL KINDS OF

# Sliding Doors

ALSO

**Lag Screws, Machine Bolts, Expansion Bolts**

## THE McCABE HANGER MFG. CO.

425-27 West 25th Street, NEW YORK


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Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Schroeder, J. B. & Co., Cincinnati, O.
Stover Manufacturing Co., Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

## 2929– Door Knobs (Glass)

Graham & Berwin, 148 Chambers, New York.

## 2930–Door Knobs (Porcelain)

Artistic Porcelain Co., Trenton, N. J.
Brunt, W. H., East Liverpool, O.
Greenwood Pottery Co., Trenton, N. J.
Thomas, R. & Sons Co., East Liverpool, O.
Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

## 2931–Door Knobs (Screwless)

Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.

## 2932– Door Knobs (Wood)

Bardsley, Joseph, 149 Baxter, New York
Novelty Turning Co., Norway, Me.
Mossman, Jerome, Fitchburg, Mass.
Piqua Handle & Mfg. Co., Piqua, O.

## 2933– Door Knockers (Colonial)

Elm City Brass & Rivet Co., Plainville, Conn.
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)

## 2934–Door Openers (Electric)

Bunnell, J. H. & Co., Park pl & Church, New York
Keil, Francis & Son, 401 E 163d, New York
Ostyrander, W. R. & Co., 22 Dey, New York
Partrick, Carter & Wilkins, Phila., Pa.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, Henry, 72 Frost, Brooklyn, N. Y.

## 2935– Door Stops

**ARCADE MFG. CO. ("Arcade" Door** Holder for Barn Doors, etc.), Freeport, Ill. (See adv. index, nd of book)
Bardsley, Joseph, 147 Baxter, New York
Brohard Co. ("Brohard's"), 3rd & Lehigh, Phila., Pa.
Caldwell Mfg. Co. ("The Empire"), Rochester, N. Y.
Champion Safety Lock Co. ("Champion" Floor), Geneva, O.
Chapin-Stephens Co., Pine Meadow, Conn.
Crucible Steel Casting Co. ("Ruppman" Door Holders), Lansdowne, Pa.
Detroit Ship Building Co. (Bress Dept.), Detroit, Mich.
General Specialty Co. ("B. & S."), 25 S 7th, Phila., Pa.
Hatch, E. C. L. ("Ruppmann" Door Holders), Bullitt bldg., Phila., Pa.
Ives, H. B. Co., New Haven, Conn.
Judd, Rollin D., New Britain, Conn.
Lane Bros. Co., Poughkeepsie, N. Y.
Le Baw, Wm., Asbury Park, N. J.
National Mfg. Co. (Door Holder), Sterling, Ill.
North Wales Machine Co. (Inc.), ("North Wales" Door Holder), North Wales, Pa.
Norwalk Lock Co., South Norwalk, Conn.
Penn Hardware Co., Reading, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Piqua Handle & Mfg. Co. (Wood, Rubber Tip), Piqua, Ohio
Reading Hardware Co., Reading, Pa.
**RICHARDS - WILCOX MFG. CO.** ("Richards," "Ever-ready" & "Sure Grip," etc.), 3d & Q sts, Aurora, Ill. (See adv. index & branch offices, end of book)
Rixson, Oscar C. Co. ("Rixson" Floor Check), 540 W Harrison, Chicago, Ill.
Russell & Erwin Mfg. Co. ("Ruswin"), New Britain, Conn.
Sargent & Co. (Door Holders), New Haven,
Shelby Spring Hinge Co., Shelby, O. Conn.
Sterling Foundry Co. (Automatic Door Holder), Sterling, Ill.
Superior Spring Hinge Co. ("Superior" Door Holder), 152 E Lake, Chicago, Ill.
Union Hardware Co., Torrington, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## Doors (Asbestos Lumber)

(See Asbestos Building Lumber)

## 2936– Doors (Ash-Pit)

Barber Mfg. Co., Ashtabula, O.
Bayley, Wm. Co., Springfield, O.
**BOLLES, J. E. IRON & WIRE WKS.,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Covert, H. W. Co., 168 Duane, New York
Detroit Arch'l Iron Works Co., Detroit, Mich.
Donaldson Bros., Mount Clemens, Mich.
Gehl Bros. Mfg. Co., West Bend, Wis.
**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Love, M. A. Mfg. Co., Rockford, Ill.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offies, end of book)
Stowell Mfg. & Fdry Co., So Milwaukee, Wis.
Swett, A. L. Iron Works, Medina, N. Y.

## 2937–Doors (Bakers' Oven)

Comstock, Geo. S., Mechanicsburg, Pa.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Dutchess Tool Co., Fishkill on the Hudson,
Mills, Thos. & Bros., Phila., Pa. N. Y.
Robson, Chas. & Co. ("Vienna" Patent), 8th & Washington av, Phila., Pa.

## 2938– Doors (Balance)

**JACKSON, WM. H. COMPANY, 2-4-6** W 27th, New York. (See adv. index & branch offices, end of book)
Pitt Balance Door Co. ("Pitt" Balance), 136 W 24th, New York

## 2939–Doors (Bronze & Iron)

**JACKSON, WM. H. CO., 2-4-6 W** 27, New York. (See adv. index & branch offices, end of book)

## 2940– Doors (Cellar)

**ARCHITECTURAL IRON & WIRE** Works (Flush), Wheeling, W. Va. (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE WKS.,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago. Ill. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO. (Steel** Patented), Hamilton, O. (See adv. index, end of book)
**RIESECK, P. (Steel), Allegheny av** & Rebecca, N S, Pittsburg, Pa. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO. (Steel** Patented), 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)

## 2941– Doors (Cleanout)

Sterling Foundry Co. ("Best"), Sterling, Ill.

## Doors (Coal Hole)

(See Doors, Ash-Pit)

## 2942–Doors (Coiling, Vertical)

Grant Pulley & Hardware Co. ("Flexifold"), 3 W 29th, New York

## 2943– Doors (Cold Storage)

**DAHLSTROM METALLIC DOOR CO.,** (Fireproof), Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)
Gloekler, Bernard Co., Pittsburg, Pa.
Jones Cold Store Door Co., Hagerstown, Md.
Pruden Door & Window Co. (Fireproof), Warner, Bayard & Dock, Baltimore, Md.
**STEARNS, A. T. LUMBER CO. (Air &** Fire-Proof), Neponset, Boston, Mass. (See adv. index, end of book)
Stevens, Benj. A. Co., Toledo, O.
Stevenson Co. (Ltd.) (Air & Fireproof), Chester, Pa.

## 2944–Doors (Copper Covered)

Grant Pulley & Hardware Co., 3 W 29th, New York
Kinnear & Gager Mfg. Co., Columbus, O.
Pruden Door & Window Co., Warner, Bayard & Dock, Baltimore, Md.
**THORP FIRE PROOF DOOR CO.,** ("Thorp-Richardson"), 1600-1610 Central av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 2945–Doors (Cypress, Wholesale)

Lutcher & Moore Cypress Lumber Co., Lutcher, La.
Riggs Cypress Co., Patterson, La.
Selden Cypress Door Co., Palatka, Fla.
**STEARNS, A. T. LUMBER CO., Ne-**ponset, Boston, Mass. (See adv. index, end of book)

## 2946– Doors (Drop Fire)

**Allith Mfg. Co.** ("Reliable" Automatic Self-Closing), W Taylor, c S 43d av, Chicago, Ill.
**Richmond Safety Gate Co., Richmond, Ind.**

## 2947– Doors (Dry Kiln)

Morton Dry Klin Co. ("Emerson"), 218 La Salle, Chicago, Ill.

## 2948– Doors (Elevating)

**DAHLSTROM METALLIC DOOR CO.** (Fireproof), Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)
Richmond Safety Gate Co., Richmond, Ind.

## 2949–Doors (Elevator, Automatic)

**(See also Hatch Doors)**

Bardsley Bros., 147 Baxter, New York
**Beckwith Elevator Co., 123 Pearl, Boston, Mass.**
**BOLLES, J. E. IRON & WIRE WKS.,** 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. ("Meeker"),** 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Central Iron Works, Des Moines, Ia.**
**City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.**
Cross-Conklin Co. ("Meeker" Improved), 559 W Lake, Chicago, Ill.
**Eastern Machinery Co., New Haven, Conn.**
**HANKE IRON & WIRE WORKS ("The** Meeker"), 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
**KINNEAR MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LANDON, E. R. IRON & WIRE WORKS** ("The Meeker"), 166 N May, Chicago, Ill. (See adv. index, end of book)
**REEDY, H. J. CO. (Inc.) (Standard** Styles), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
**Richmond Safety Gate Co., Richmond, Ind.**
Rochester Automatic Elevator Door Co. (Fire Proof Safety Fire Doors), 291 Mill, Rochester, N. Y.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**STANDARD CO. ("Otis" Patent** Two-Thirds Opening), Railway Exch bldg, Chicago, Ill. (See adv. index, end of book)
Variety Mfg. Co. ("Cross Improved Meeker"), Sacramento & Carroll avs, Chicago, Ill.
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)**

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## 2950—Doors (Elevator, Automatic Fire)

(See also Doors & Shutters, Fireproof; also Doors, Fire, Tin Clad)

Automatic Door & Gate Co., 123 Liberty, New York

Banner Iron Works, Missouri Trust bldg, St. Louis, Mo.

Beckwith Elevator Co., 123 Pearl, Boston, Mass.

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)

Brodie, Wm. H. Co., 45 Vesey, New York.

City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index, end of book)

Dentler Bagger Co., Vicksburg, Mich.

**KINNEAR MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

Kinnear & Gager Mfg. Co., Columbus, O.

**LANDON, E. R. IRON & WIRE W'KS** ("The Meeker"), 166 N May, Chicago, Ill. (See adv. index, end of book)

National Fireproof Sash & Door Co., 270 Moore, Brooklyn, N. Y.

**REEDY, H. J. CO. (Inc.), 15 W. 2d,** Cincinnati, O. (See adv. index, end of book)

Richmond Safety Gate Co., Richmond, Ind.

Rochester Automatic Elevator Door Co. (Fireproof Safety Fire Doors), Rochester, N. Y.

**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)

Stowell Mfg. & Foundry Co. ("Wilbern" & "Underwriters"), S Milwaukee, Wis.

**THORP FIRE PROOF DOOR CO.** ("Thorp-Richardson"), 1600-1610 Central av, Minneapolis, Minn. (See adv. index & branch offices, end of book)

**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

Variety Mfg. Co. ("Cross" Folding), Sacramento & Carroll avs, Chicago, Ill.

Victor Mfg. Co., Newburyport, Mass.

**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 2951—Doors (Elevator, Bronze)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)

Bradley & Hubbard Mfg. Co., Meriden, Conn.

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

Burkhardt, John (Bronze), 606 W 55th, New York

**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)

**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)

Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.

Detroit Arch'l. Iron Works Co., Detroit, Mich.

**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)

**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)

**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)

Hecla Iron Works, 118 N. 11th, Brooklyn, N. Y.

**HENRY-BONNARD BRONZE CO. (Also Iron),** Mount Vernon, N. Y. (See adv. index, end of book)

**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)

**JACKSON, WM. H. COMPANY, 29 E** 17th (Union sq), New York. (See adv. index, end of book)

**MEYERS, FRED J. MFG. CO., Hamilton,** O. (See adv. index, end of book)

Richey, Browne & Donald, Maspeth, Borough of Queens, New York City

**SCHREIBER, L. & SONS CO., 8th & Eggleston** av, Cincinnati, O., & 1133 B'way, New York (See adv. index & branch offices, end of book)

**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)

**SNEAD & CO. IRON WORKS, ft.** Pine, Jersey City, N. J. (See adv. index, end of book)

**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)

Tiffany Studios, 347 Madison av, New York

**TYLER, W. S. CO., Cleveland, Ohio** (See adv. index & branch offices, end of book)

**WINSLOW BROS. CO., Main Office &** Works, 4600 Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 2952—Doors (Elevator, Metal Covered)

Harris, S. H. Co. ("Meaker"), 736 Pearce, Chicago, Ill.

Kinnear & Gager Mfg. Co., Columbus, O.

Richmond Safety Gate Co., Richmond, Ind.

Ross, R. J. Mfg. Co. ("Meeker"), 1820 W Lake, Chicago, Ill.

Underwriters Hatch Door Co., 1741 Walnut, Chicago, Ill.

**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 2953—Doors (Fire Proof, Metal)

Art Metal Door & Trim Co., 2726 Wentworth av, Chicago, Ill.

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y., & 299 B'way, New York (See adv. index & branch offices, end of book)

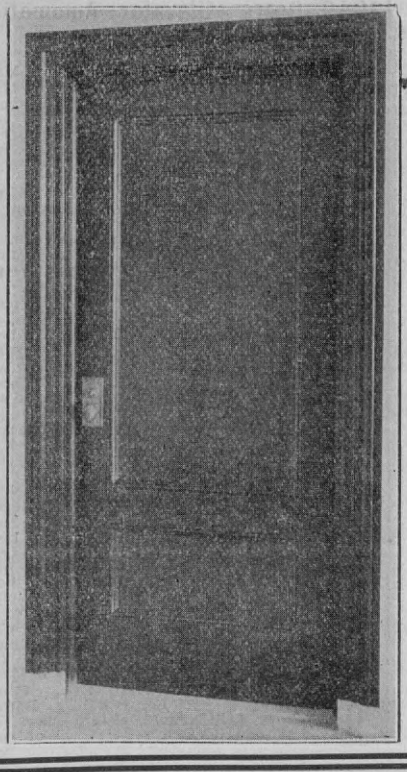
Dowman-Dozier Mfg. Co. (Hollow Sheet Metal Panel), Atlanta, Ga.

**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)

Grinden Art Metal Co. (Hollow Metal, All Steel, also Bronze or Copper), 43 Walton, Brooklyn, N. Y.

Harris, S. H. Co. (Steel), 736 Pearce, Chicago, Ill.

Herrman & Grace, 671 Bergen, B'klyn, N. Y.

*WE ARE THE LARGEST MANUFACTURERS IN THE WORLD OF*

**HOLLOW METAL AND METAL COVERED DOORS, TRIM AND PARTITIONS**

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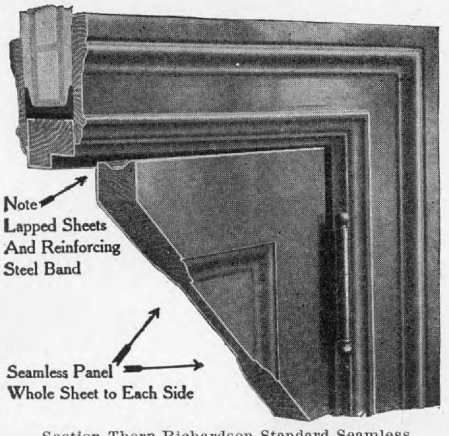
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Section Thorp Richardson Standard Seamless Paneled Fire-Proof Door

RECOMMENDED AND USED BY
NATIONAL BOARD OF FIRE UNDERWRITERS, CHICAGO

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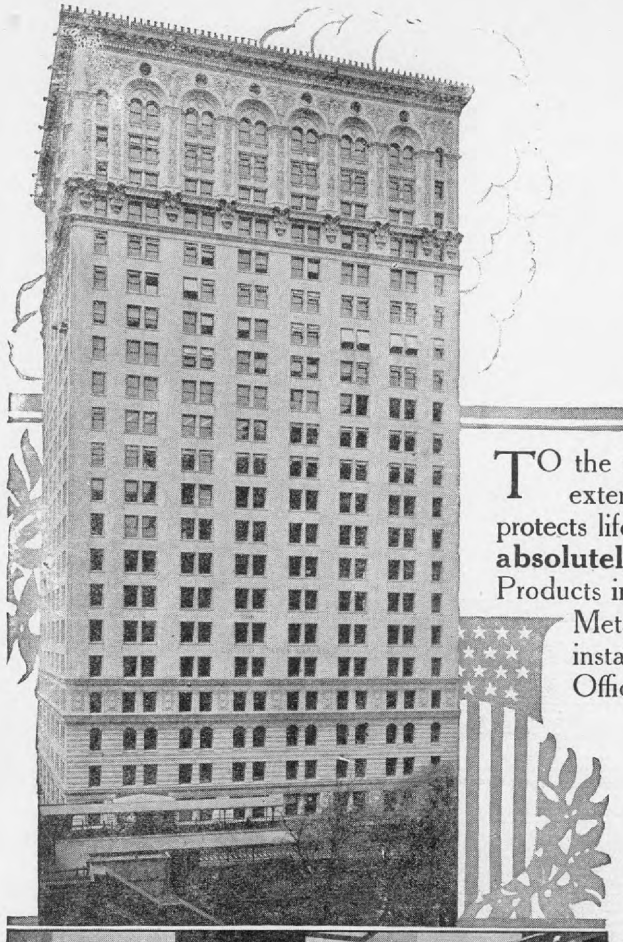
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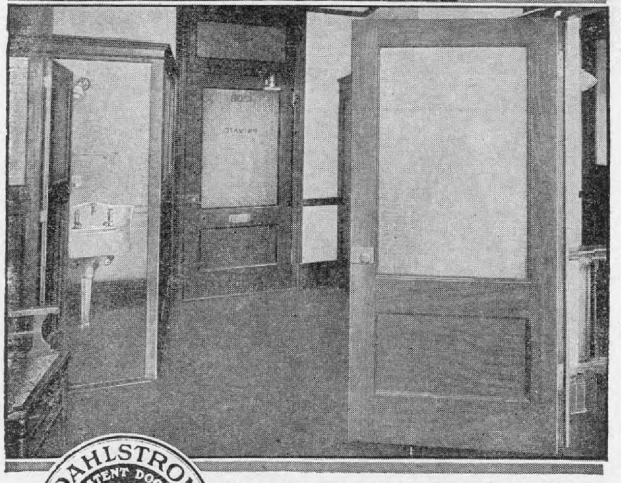
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Howell & Lawrence (Metal Covered), 402 E 93d, New York
**KINNEAR MFG. CO. (Approved Fire** Doors), Columbus, O. (See adv. index & branch offices, end of book)
Kinnear & Gager Mfg. Co., Columbus, O.
Knoburn Co. (Steel Filled with Asbestos), 240 11th av, New York
Lupton's, David Sons Co., Allegheny av & Tulip, Philadelphia, Pa.
Northwestern Roofing Cornice & Stamping Works ("Woodless"), Minneapolis, Minn.
**Pruden Door & Window Co. (Also Hollow** Sheet Metal), Warner, Bayard & Dock, Baltimore, Md.
Ross, R. J. Mfg. Co. ("Meeker"), 1820 W Lake, Chicago, Ill.
**THORP FIRE PROOF DOOR CO.** ("Thorp-Richardson"), 1600-1610 Central av, Minneapolis, Minn. (See av. index & branch offices, end of book)
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.) (Metal Covered, All Kinds), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 2954—Doors (Fire, Tin Clad)

Akerly, Hiram A., N 4th, Brooklyn, N. Y.
Albert & Fischer Hdw. & Sheet Metal Co., St. Louis, Mo.
American Sheet Metal Wks., New Orleans, La.
Bauer's, Chas. Sons, Buffalo, N. Y.
Biersach & Niedermeyer Co., Milwaukee, Wis.
**BURTON, W. J. CO., 161 W Congress,** Detroit, Mich. (See adv. index, end of book)
Callaghan, J. & Son, Cleveland, O.
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Chistmann, Phillip & Sons, Buffalo, N. Y.
Cleveland Metal Roofing & Ceiling Co., Cleveland, O.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Consolidated Sheet Metal Wks. Co., Milwaukee,
Dowman & Dozier Mfg. Co., Atlanta, Ga.

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Eberle, J. & Son, St. Louis, Mo.
Ellis, A. J., Guttenberg, N. J.
Gerock Bros. Mfg. Co., St. Louis, Mo.
Harris, S. H. Co., 736 Pearce, Chicago, Ill.
Harry, O. K. Steel Wks., St. Louis, Mo.
Higgins, Francis B., St. Louis, Mo.
Holzer, R. G. (Est. of), New Orleans, La.
Hopmann Cornice Co., St. Louis, Mo.
Howell & Lawrence, 404 E 93rd, New York
Jeske, R. & Bro., 119 Reservoir Av, Milwaukee, Wis.
Johnson, G. W. Mfg. Co., Kansas City, Mo.
Kasch Roofing Co., Akron, O.
Keystone Fire Door Co., Pittsburg, Pa.
Kinnear & Gager Mfg. Co., Columbus, O.
Leonard Sheet Metal Wks., Hoboken, N. J.
Lupton, David Sons Co., Allegheny av & Tulip, Phila., Pa.
**McFARLAND, J. C. & CO., 27th & 5th** av, Chicago, Ill. (See adv. index & branch offices, end of book)
Mackwirth Bros. Co., Buffalo, N. Y.
Manhattan Fireproof Door Co., Winfield, L. I.,
Mannen & Esterly Co., Cleveland, O. N. Y.
Mesker & Bro., St. Louis, Mo.
Missouri Fire Door & Cornice Co., St. Louis,
Murphy, E. & Co., St. Louis, Mo. Mo.
National Fire Equipment Co., Columbus, O.
Nelson, A. J. Mfg. Co. (Ltd.), New Orleans, La.
O'Donnell Safety System Co., Cleveland, O.
Ohio Roofing Co., Cleveland, O.
Peelle Company, 123 Liberty, New York
Perkins Mfg. Co., St. Paul, Minn.
Peters, G. H. Co., Buffalo, N. Y.
Powers & Boyd Cornice & Roofing Co., St. Louis, Mo.
Pruden, C. D. Co., Baltimore, Md.
Richmond Safety Gate Co., Richmond, Ind.
Riester & Thesmacher Co., Cleveland, O.
Ross, R. J. Mfg. Co., 1820 W Lake, Chicago, Ill.
Rudolph & Sons Co., Cleveland, O.
Rulofson Metal Window Wks. (Inc.), San Francisco, Cal.
Ruth, J. F., St. Louis, Mo.
St. Louis Fire Door & Sheet Metal Co., St. Louis, Mo.
Saginaw Sheet Metal Wks., Saginaw, Mich.
Shields, J. H., Cincinnati, Ohio
Souther, E. E. Iron Co., St. Louis, Mo.
Stremel Bros. Roofing & Cornice Co., Minneapolis, Minn.
Thorn, J. S. Co., 20th & Allegheny av, Phila., Pa.
Underwriters Hatch Door Co., 1741 Walnut, Chicago, Ill.
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.) (Underwriters' Standard Tin Covered), 205 W 40th, New York. (See adv. index & branch offices, end of book)
Valley Cornice & Slate Co., Saginaw, Mich.
Variety Mfg. Co., Carroll & Sacramento avs, Chicago, Ill.
Victor Mfg. Co., Newburyport, Mass.
Vonder Su & Cluss Mfg. Co., St. Louis, Mo.
Wand & Niehaus, St. Louis, Mo.
Westergren, M. F., 213 E 144th, New York

## 2955— Doors (Folding)

Harris, S. H. Co. (Horizontal), 736 Pearce, Chicago, Ill.
**KINNEAR MFG. CO., Columbus, O.** (See adv. index, end of book)
Variety Mfg. Co. ("Cross." Horizontal for Freighthouses, etc.), Sacramento & Carroll avs., Chicago, Ill.

## Doors (Freight & Round House)

(See Shutters, Steel Rolling)

## 2956— Doors (Grain)

Chicago Grain Door Co., 98 Jackson blvd, Chicago, Ill.
Kirby Equipment Co., 9 Jackson blvd, Chicago, Ill.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Osterman Mfg. Co., 120th & Peoria, Chicago, Ill.
Sheffield Car Co., Three Rivers, Mich.
Spencer Otis Co., 9 Jackson blvd, Chicago, Ill.

## 2957—Doors (Hard Wood & Veneered)

Alcott-Ross Co., 2917 N Broad, Phila., Pa.
American Compound Door Co., 21st & Morgan, Chicago, Ill.
Armstrong-Landon Co., Kokomo, Ind.
Batavia & New York Wood Working Co., Batavia, N. Y., & Fuller bldg, New York
Bossert, Louis & Son, Grand st & Newtown Creek, Brooklyn, N. Y.
Brockway-Smith Corporation, Boston, Mass.
Burton, Wm. H. Co., Albany, N. Y.
Bush Bros., Royersford, Pa.
Caldwell & Iseminger, Middletown, O.
Carl, John H., 510 1st av, New York
Chicago Veneered Door Co., 316 Chamber of Commerce, Chicago, Ill.
Compound Door Co., St. Joseph's, Mich.
Crampton & Belden Mfg. Co. (Wholesale Mfrs.), Green Island, N. Y.
Cream City Sash & Door Co. (For the Trade Only), Milwaukee, Wis.
Curtis Bros & Co. (For the Trade Only, Wholesale Mfrs.), Clinton, Ia.
Curtis, Fowle & Paine Co. (For the Trade Only, Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Des Moines Cabinet Co., Des Moines, Ia.
Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Iowa
Eldridge, E. H. Lumber Co., Indianapolis, Ind.
Enterprise Planing Mill Co., Hillsboro, Ohio
Farley & Loetscher Mfg. Co., Dubuque, Ia.
Foster-Munger Co. (For the Trade Only), W 20th & Sangamon, Chicago, Ill
Fuller & Rice Lumber & Mfg. Co. (For the Trade Only), Grand Rapids, Mich.
Gauger, John A. & Co. (For the Trade Only), W 22d & Laflin, Chicago, Ill.
Gilmour, David, Door Co., Buffalo, N. Y.
Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.
Grand Rapids Veneer Works, Grand Rapids, Mich.
Hafner Mfg. Co. (Wholesale Mfrs.), Main & Dock, St. Louis, Mo.
Huttig Mfg. Co., Muscatine, Iowa
Huttig-Moss Mfg. Co., St. Joseph, Mo.
Hyde-Murphy Co., Ridgway, Pa.
Interior Finish Co., N S, Pittsburg, Pa.
Ironton Wood Mantel Co. (Wholesale Mfrs.), Ironton, O.
I. X. L. & Goshen Pump Co., Goshen, Ind.
Jamestown Mantel Co., Falconer, N. Y.
Kertscher & Co., Elmira, N. Y., & 13 Lawrence, New York
Lamont, Matthew (Wholesale Mfrs.), Bay City, Mich.
Lord, P. A. Lumber Co. (For Dealers & Contractors), La Grange, Ill.
Lortz & Frey Planing Mill Co., 420 E Breckenridge, Louisville, Ky.
Lutcher & Moore Cypress Lumber Co. (Wholesale Mfrs.), Lutcher, La.
McClelland, T. W. Co. (Wholesale Mfrs.), Davenport, Ia.
McConnell Mfg. Co., Hornellsville, N. Y.
McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.
Madisonville Lumber Co. ("Korelock"), Station M, Cincinnati, O.
Mahogany Interior Trim Co., Indianapolis, Ind.
Mechanics Plaining Mill Co., 3746 B'way, St. Louis, Mo.
Miller, Wm. & Sons, Rochester, Pa.
Miller Wm. & Sons Co., Pittsburg, Pa.
Montgomery Bros. & Co., Buffalo, N. Y.
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Mulliner Box & Planing Co., Quincy, Ill.
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis., & 1 Madison av, New York
Phoenix Sliding Blind Co., Phoenix, N. Y.
Pitt Balance Door Co. ("Pitt" Balance), 136 W 24th, New York
Radford Sash & Door Co. (For the Trade Only), 845 W 22d, Chicago, Ill.
Redwood Mfg. Co. (Redwood Oregon Pine), Oakland, Cal.
Rikerd Lumber Co. (Wholesale Mfrs.), Lansing, Mich.
Ripley Lumber Co., Poultney, Vt.
Roach & Musser Sash & Door Co. (Wholesale Mfrs.), Muscatine, Ia.
Roberson, A. & Son, Binghamton, N. Y.
Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
Rockwell Mfg. Co. (For the Trade Only), Milwaukee, Wis.
Rogers, D. M. & Co., New Britain, Conn.
St. Louis Sash & Door Works, Veneered Hardwood) St. Louis, Mo.
Schaller-Hoehrr Co., 1013 S California av, Chicago, Ill.
**STEARNS, A. T. LUMBER CO., Ne-**ponset, Boston, Mass. (See adv. index, end of book)
Struck, Alfred Co., Louisville, Ky.
Taylor, Henry Lumber Co., Lafayette, Ind.
Travis-Carter Co., Seymour, Ind.
Trebing Mfg. Co., 45 Centre, Cleveland, O.
Tuttle & Burritt (Mfrs.), Lapeer, Mich.
Van Leer Bros., Brookville, Pa.
Whitmer-Jackson Sash & Door Co., Cleveland, O.
Williamsport Planing Mill Co., Williamsport, Pa.
Wollaeger Mfg. Co., Milwaukee, Wis.
Woodbury Mill & Lumber Co., Woodbury, N. J.

## 2958— Doors (Hopper)

Trenton Malleable Iron Co., Trenton, N. J.
U. S. Metal & Mfg Co, 165 B'way, New York

## 2958a—Doors (Iron & Glass)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kinnear & Gager Mfg. Co., Columbus, O.
**PITT, WM. R. COMPOSITE IRON** Works (Vestibule & Storm), 136-138 W. 24th, New York. (See adv. index, end of book)

## Doors (Kalameined)

(See Doors & Windows, Kalameined)

## 2959— Doors (Manhole)

Heiser, Wm & Sons Co., Buffalo, N. Y.

## 2960— Doors (Metal Entrance)

Art Metal Door & Trim Co., 1726 Wenworth av, Chicago, Ill.
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Dowman-Dozier Mfg. Co., Atlanta, Ga.

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**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
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Howell & Lawrence, 1788 1st av, New York
Knoburn Co., 240 Eleventh av, New York
Lupton's, David Sons Co., Allegheny av & Tulip, Philadelphia, Pa.
**McFARLAND, J. C. & CO., 27th &** 5th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Manhattan Fireproof Door Co., Winfield, L. I.,
Nichols, Fred T., Oakland, Cal. New York
Pruden Door & Window Co, Baltimore, Md.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
**THORP FIRE PROOF DOOR CO.** (Copper & Bronze "Thorp-Richardson"), 1600-1619 Contral av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.) (Bronze & Copper Covered), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 2961—Doors (Metallic, Hollow)

Art Metal Door & Trim Co., 2726 Wentworth av, Chicago, Ill.
**DAHLSTROM METALLIC DOOR CO.** (High Grade Fire Proof, with Incombustible Filling), Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)
**McFARLAND, J. C. & CO., 27th &** 5th av, Chicago, Ill. (See adv. index & branch offices end of book)

## 2962— Doors (Mine)

American Mine Door Co., Canton, O.
Hardsorg, Martin Co. ("Champion" or "Terre Haute" Automatic), N. S. Pittsburg, Pa.
International Steel & Iron Construction Co. (Steel Trap Door), Evansville, Ind.

## 2963—Doors (Open Hearth Furnace)

Keystone Bronze Co. ("Knox" Patent Copper). Pittsburg, Pa.
**PETROLEUM IRON WORKS CO.** ("Knox." Patent Water Cooled) Sharon, Pa. (See adv. index & branch offices, end of book)

## Doors (Oven)

(See Doors, Bakers' Oven)

## 2964—Doors (Passenger Car, Hollow Metal)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## 2965—Doors (Red Cedar, Wholesale)

Redwood Mfg. Co., Oakland, Cal.
Whatcom Falls Mill Co., Bellingham, Wash.
Wheeler, Osgood Co., Tacoma, Wash.

## 2966—Doors (Refrigerator Car)

Trenton Malleable Iron Co., Trenton, N. J.

## 2967— Doors (Revolving)

**AMERICAN REVOLVING DOOR CO.** (Wood or All Metal), 2512 Monroe, Chicago, Ill. (See adv. index, end of book)
Atchison Revolving Door Co. (Wood or All Metal), Independence, Kan.
Cross-Conklin Co. ("Cross" Automatic), 559 W Lake, Chicago, Ill.
Van Kannel Revolving Door Co. (Wood or All Metal), Fuller Bldg. New York.

## 2968— Doors (Revolving Safety, Panic Proof)

**AMERICAN REVOLVING DOOR CO.** ("Waterstraat"), 2512 Monroe, Chicago, Ill. (See adv. index, end of book)

## 2969— Doors (Round House)

**WILSON, JAS. G. MFG. CO. (Wood),** Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

## 2970— Doors (Screen)

(See also Screens, Window & Door)

**BURROWES, E. T. CO., THE, Portland,** Me. (See adv. index & branch offices, end of book)

## Doors (Steel Rolling)

(See Shutters, Steel Rolling)

## 2971— Doors (Trap)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHICAGO SIDEWALK LIGHT CO.,** Shields av & 33d, Chicago, Ill. (See adv. index, end of book)
Edwards, O. M. Co. ("Edwards," Steel Extension Platform), Syracuse, N. Y.
General Railway Supply Co. ("National," Automatic), 204 Dearborn, Chicago, Ill.

## 2972—Doors (Winding & Sliding)

**THORP FIRE PROOF DOOR CO. ("Thorp-Richardson"),** 1600–1610 Central av, Minneapolis, Minn. (See adv. index and branch offices, end of book)
**WILSON, JAS. G. MFG. CO. (Swing** for Freight Sheds & Warehouses), Chief Office, 3 W 29th, New York, Mills & Factory: Norfolk, Va. (See adv. index, end of book)

## Doors (Wood Rolling)

(See Shutters, Wood Rolling)

## 2973—Doors & Shutters (Fireproof)

(See also Shutters, Steel, Etc.)

**BERGER MFG. CO., THE, Main Office** & Works, Canton, O. (See adv. index & branch offices, end of book)
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W. Con**gress, Detroit, Mich. (See adv. index, end of book)
Champion Fire Proof Door Co. ("Champion F. P. Door"), 275 Rider av, New York
**CHAMPION IRON CO. (Steel),** Kenton, O. (See adv. index, end of book)
**DAHLSTROM METALLIC DOOR CO.,** (Hollow Metal), Jamestown, N. Y., & 229 B'way, New York. (See adv. index & branch offices, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
Gehret Bros., Bridgeport, Pa.
**HANKE IRON & WIRE WORKS (Iron),** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Keystone Fire Door Co. (Inc.), Park bldg. Pittsburg, Pa.
**KINNEAR MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LANDON, E. R. IRON & WIRE WORKS** (Iron), 166 N May, Chicago, Ill. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Mesker & Bro., 423 S. 6th, St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
National Fireproof Sash & Door Co., 250 Moore, Brooklyn, N. Y.
Perkins Mfg. Co., St. Paul, Minn.
Pruden Door & Window Co., Warner, Bayard & Dock, Baltimore, Md
Pritchard, E. M. & Son Co., E 138th & Mott av, New York
**RIESECK, P. (Steel), Allegheny av** & Rebecca, N S, Pittsburg, Pa. (See adv index, end of book
Ross, R. J. Mfg. Co. ("Meeker"), 1820 W Lake, Chicago, Ill
Sagax Wood Co. ("Sagax"), Baltimore, Md
**SCHREIBER, L. & SONS Co., 8th & Fo**gleston av, Cincinnati, O., & 1133 B'way New York. (See adv. index & branch offices, end of book
**SMITH, F. P. WIRE & IRON WORKS** Lake & Dearborn, Chicago, Ill. See adv. index, end of book)
**THORP FIRE PROOF DOOR CO.,** 1600-1610 Central av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.) (Metal Covered), 205 W 40th, New York. (See adv. index & branch offices, end of book)
Victor Mfg. Co., Newburyport, Mass.
**WILSON, JAS. G. MFG. CO. (Steel** Rolling), Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

## 2974— Doors & Iron (Hollow Metal)

**VOIGTMANN & CO., 442 W Erie,** Chicago, Ill. (See adv. index, end of book)

## 2974—Doors & Windows (Kalameined)

Kimsey Company, 34 S 16th, Phila., Pa.

## 2975—Doors & Windows ("Kimsey")

**Brooklyn Fire-Proof Sash & Door Co., 97** Richardson, Brooklyn, N. Y.
**Herrmann & Grace, 671 Bergen, Brooklyn, N. Y.**
Howell & Lawrence, 1788 1st av, New York
Kinnear & Gager Mfg. Co., Columbus, O.
Leonard Sheet Metal Works, Hoboken, N. J.
National Fire Proof Sash & Door Co., 290 Moore, Brooklyn, N. Y.
Pruden Door & Window Co., Warner, Bayard & Dock, Baltimore, Md.
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)
**VOIGTMANN & CO., 442 W Erie,** Chicago, Ill. (See adv. index, end of book)
Westergen, M. F. (Inc.), 213 E 144th, New York

## Dough Dividers

(See Dough Dividing Machine)

## 2976— Dovetailing Attachments

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 2977— Dovetails (Stove)

Burdick & Son, Albany, N. Y.

## 2978— Dowel Rods

American Woodworking Co., 108 Fulton, New York
Connecticut Box Co., New Haven, Conn.
**Estes, E. B. & Sons, 74 Warren, New York**
Harris & Cole Bros. (Poplar, Oak & Yellow Pine), Cedar Falls, Ia., & Columbia, Tenn.
**Hyde-Murphy Co., Ridgway, Pa.**
**Phillips, A. J. Co., Fenton, Mich.**
**Rowe, Henry Mfg. Co., Newaygo, Mich.**
Sturm, Adolph Co., 542 Wash'n blvd, Chicago, Ill.

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as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

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# PATTERN MAKERS' STANDARD BRASS ROUND PLATE DOWELS

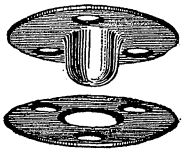
No Mortising Out Required, just use a Bit. The three screws allow them to be more Firmly Fastened

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**Ellsworth Hardware Co. (Rope, Reed & Plain), Ellsworth, Me.**
Everett, A. & Son (Brass & Wood), Auburn, N. Y.
Grayling Dowell Co., Grayling, Mich.
Grover, R. A. (Wood), Andover, Me.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Harriman, S. H., Fryeberg, Me.
Lobdell & Churchill Mfg. Co., Onaway, Mich.
**MORSE, FRANK W. (Brass), 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)
Smith, H. B. & Co., Hanover, Me.
**STILES, H. A. & CO., 161 High, Boston, Mass.** (See adv. index, end of book)
Woodworking Co., Bay City, Mich.

## 2980—Dowels (Patternmakers')

Beskin Mfg. Co. (Brass), Canton, O.
Cleveland Fillet Co. (Wood & Metal), Cleveland, O.
Diamond Clamp & Flask Co., Richmond, Ind.
**MORSE, FRANK W. (Brass), 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)
Shanafelt Mfg. Co. (Brass & Hardwood), Canton, O.
Timmis & Clissold (Brass), Boundbrook, N. J.

## 2980a— Dowels (Rail)

Jenckes, E. Mfg. Co., Worcester, Mass.

## 2981— Dowels (Steel)

Badger Nail Co., Milwaukee, Wis.
Chicago, Nut Co., 617 W Jackson blvd, Chicago, Ill.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Wire Goods Co. (Hand Rail Screw Thread), Worcester, Mass.

## 2982— Draft Gear

Butler Draw-Bar Attachment Co. ("Butler-Miner" Combination), Cleveland, O.
Commonwealth Steel Co., ("Transom," Cast Steel Draft Rigging), St. Louis, Mo. Works: Granite City, Ill.
Dayton Malleable Iron Co. (For Steel & Wooden Cars), Dayton, O.
Detroit Steel Products Co., Detroit, Mich.
Gould Coupler Co. ("Gould" Friction), 347 5th av, New York
McCord & Co. ("McCord"), 150 Michigan av, Chicago, Ill.
Miner, W. H., Co. ("Miner" Draft Rigging), Rookery bldg, Chicago, Ill.
National Car Coupler Co. ("Hinson"), Monadnock blk, Chicago, Ill. Works, Attica, Ind.
Simplex Railway Appliance Co. ("Corning"), Commercial Nat'l B'k bldg, Chicago, Ill.; Works: Hammond, Ind.
Standard Coupler Co. ("Sessions-Standard" Friction), 2 Rector, New York; Works: Bridgeport, Conn.
Symington, T. H. Co. ("Farlow"), Baltimore, Md.
Union Draft Gear Co. ("Cardwell" Friction), Chicago, Ill.
Wallace Supply Co. ("Barnes" Draft Rigging), 120 S Jefferson, Chicago, Ill.
Western Railway Equipment Co. ("Hoerr", Tandem, St. Louis, Mo.
**WESTINGHOUSE AIR BRAKE CO.,** The (Friction), Pittsburg, Pa.

## 2983— Draft Inducer

Brown Specialty Machinery Co. ("Gadey") Jackson boul & Clinton, Chicago, Ill

## 2984—Draftsmen (Mechanical)

Gaylord, Chas. E. (Patent Office Drawings a Specialty), Marquette blk, Chicago, Ill.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
White & White (Patent Office Drawings a Specialty), Monadnock blk, Chicago, Ill.

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Baggot, E. Co. ("Durham"), 45 E Lake, Chicago, Ill.
Waring, Chapman & Farquhar ("Waring"), 874 B'way, New York

## 2987— Drains (Floor)

Blake Specialty Co. ("Blake", Junion No-Back), Rock Island, Ill.
Compound Injector & Specialty Co. ("Dehn's", "Acme" Deep Seal), 419 N 52d av, Chicago, Ill.

## 2988— Draughting Tables

American Drafting Furniture Co. ("Morse"), Rochester, N. Y.
Century Mfg. Co. (Steel Adjustable), Cleveland, O.
Cole, H. Co. ("Harrison"), Columbus, O.
Dietzgen Eugene Co., 181 Monroe, Chicago, Ill.
Economy Drawing Table Co., Toledo, O.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock blk, Chicago, Ill.** (See adv. index, end of book)
Fritz Mfg. Co. ("Fry's Adjustable"), Grand Rapids, Mich.
Hamilton Mfg. Co., Two Rivers, Wis.
Hemp, C. E., Hamilton, O.
Keuffel & Esser Co., 127 Fulton, New York
Kidder, R. E., Worcester, Mass.
**KOLESCH & CO., 138 Fulton, New York.** (See adv. index, end of book)
Lutz Co. ("Forsyth's" Adjustable), Guttenberg, N. J.
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**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Rich, J. & G. (Combination Drawing Outfit), 122 N 6th, Philadelphia, Pa.
Shartle Bros. Machine Co., Middletown, O.
**SOLTMANN, E. G.** (Also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
Taws, Henry M. ("Emerson's"), 920 Arch, Philadelphia, Pa.
United States Brake Shoe Co., White bldg, Buffalo, N. Y.
Washburn Shops of the Polytechnic Institute, ("Worcester"), Worcester, Mass.
**WEBER, F. & CO., 1125 Chestnut,** Phila., Pa. (See adv. index & branch offices, end of book)
Williams, Brown & Earle ("Ajax" Telescopic), 918 Chestnut, Philadelphia, Pa.

## 2989— Draw-Bar Attachment

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Butler Draw-Bar Attachment Co., Cleveland, O.
Dayton Malleable Iron Co., Dayton, O.
Miner, W. H., The Rookery, Chicago, Ill.
Van Dorn, W. T. Co. (Electric Railway), 2327 S Paulina, Chicago, Ill.
Wilmington Malleable Iron Co., Taylor & Locust, Wilmington, Del.

## 2990—Draw Bridge Equipments (Electric)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Nichols, Geo. P. & Bro., Old Colony bldg, Chicago, Ill.

## Draw Bridge Machinery

(See Machinery, Draw Bridge)

## 2991— Drawer Slides

Grant Pulley & Hardware Co. ("Turner"), 3 W 29th, New York
Reliance Ball Bearing Door Hanger Co. ("Reliance," Ball Bearing), 1 Madison av, New York

## 2992—Drawers (Bench, Steel)

**LYON METALLIC MFG. CO., Aurora, Ill.** (See adv. index, end of book)
**NEW BRITAIN MACHINE CO., New Britain, Conn.** (See adv. index, end of book)

## 2993—Drawers (Cash or Money)

Chicago Scale Co. (Alarm Tills), 1021 W Jackson blvd, Chicago, Ill.
Fernald Mfg. Co., North East, Pa.
Merriam Mfg. Co., Durham, Conn.
Nashua Till Co. (Alarm Tills), Nashua, N. H.
**Quincy Show Case Works (Alarm or Gong), Quincy, Ill.**
Russell & Erwin Mfg. Co. (Alarm Tills), New Britain, Conn.
Sun Mfg. Co. (Domestic, English & German), Columbus, O.
Thomas-Peter Co. (Sheet Metal), Canton, O.
Tucker & Dorsey Mfg. Co. (Alarm Tills), Indianapolis, Ind.
**Wood, E. O., Nashua, N. H.**

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**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**HARDTMUTH, L. & C., 34 E 23d,** New York. (See adv. index, end of book)
Indianapolis Blue Print & Supply Co., Indianapolis, Ind.
Keuffel & Esser Co., 127 Fulton, New York.
Keystone Blue Paper Co., 910 Filbert, Philadelphia, Pa.
**KOLESCH & CO., 138 Fulton, New** York. (See adv. index, end of book)
Kopp, Geo. L. & Co., 704 Smithfield, Pittsburg, Pa.
Lietz, A. Co., San Francisco, Cal.
McCallen, Thos. H. & Co., 54 N 9th, Phila., Pa.
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO. (Surveying & Mathematical Instruments), 167 Adams,** Chicago, Ill. (See adv. index, end of book)
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(See Wagons, Freight Teaming, etc.)

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**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 2996—Dredges (Gold, Dipper & Hydraulic)

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**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

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Bennett, E. S. ("New Era"), 52 B'way, New York
**Bucyrus Co.,** South Milwaukee, Wis.
Clark Dredge Mfg. Co., 2036 Dominick, Chicago, Ill.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Hammond Mfg. Co., 100 1st, Portland, Oregon
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Krogh Mfg. Co., San Francisco, Cal.
**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Marion Shovel & Dredge Co., Marion, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
New York Engineering Co., 2 Rector, New York
Ohio Steam Shovel & Dredge Co., Cincinnati, Ohio
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
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United Iron Works (Beach Sand Dredges), Oakland, Cal.
Urie-Snyder Iron Works Co., Kansas City, Mo.
Wetherill Bros. Machine Co., Chester, Pa.
Willamette Iron & Steel Works, Portland, Ore.
Yeatman, Jno. A. & Co. (Beach Sand Dredges), 31 1st. San Francisco, Cal.
Yuba Construction Co., Marysville, Cal.

## Dredging Machinery

(See Machinery)

## 2998—Dressers (Bibb Seat)

**BERNZ, OTTO, S 13th e S Orange av,** Newark, N. J. (See adv. index, end of book)
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Johnson Wm. (Hedenberg Works), Newark, N. J.
Wolverine Brass Works ("Universal"), Grand Rapids, Mich.

## 2999—Dressers (Emery Wheel)

American Emery Wheel W'ks, Providence, R. I.
**BAY STATE STAMPING CO. ("Bennett"), 380 Chandler, Worcester, Mass. (See adv. index, end of book)**
Braunsdorf-Mueller Co., Elizabeth, N. J.
Browne & Dowd Mfg. Co. ("American"), Meriden, Conn.
Buffalo Emery Wheel Co. ("Huntington" Pattern), Buffalo, N. Y.
Builders' Iron Foundry ("Challenge"), Providence, R. I.
Calder, Geo. H. ("Calder"), Lancaster, Pa.
Carborundum Co., Niagara Falls, N. Y.
Challenge Machine Co. (Inc.) ("Gruwa-Huntington"), 5116 Springfield av, Phila., Pa.
Chicago Screw Co. ("Genuine Huntington"), 1026 Homan av, Chicago, Ill.
Chicago Wheel & Mfg. Co. ("Paragon" & "Huntington"), 1101 Monroe, Chicago, Ill.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Collmer Bros. ("Huntington Collmer"), South Bend, Ind.
Columbus Bolt Works, Columbus, O.
Curtin-Herbert-Anthony Co., Gloversville, N. Y.
Dayton Malleable Iron Co., Dayton, O.
Desmond-Stephen Mfg. Co. ("Desmond" "Diamo-Carbo"), Urbana, O.
Dessau, David & Bros. (Diamond Set), 180 B'way, New York
**DETROIT SCREW WORKS ("Genu**ine Huntington") 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Diamond Machine Co., Providence, R. I.
Diamond Saw & Stamping Works ("Sterling"), Buffalo, N. Y.
Dickinson, Jno. (Est. of) (Diamond Pointed), 64 Nassau, New York
Dickinson, Thos. L., 45 Vesey, New York
Electric Emery Wheel Co., Newark, N. J.
Hartley, Geo. ("Diamond"), Waterbury, Conn.
Heald Machine Co., Worcester, Mass.
International Specialty Co. ("Economo" Combination & "Economo" Crucible), 362 Holden av, Detroit, Mich.
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
Marbach, F. G. Co., Medina, O.
Northampton Emery Wheel Co., Leeds, Mass.
Norton Company, Worcester, Mass.
Osgood, J. L. ("Black Diamond"), Erie County Bank bldg, Buffalo, N. Y.
Patterson Tool & Supply Co., Dayton, O.
Peninsular Emery Wheel Co. ("Huntington" Pattern), Detroit, Mich.
Reed Mfg. Co., Erie, Pa.
Robson Mfg. Co. ("Huntington" Pattern), Galesburg, Ill.
Scranton Whetstone & Abrasive Wheel Co., Scranton, Pa.
Southington Hardware Co., Southington, Conn.
Springfield Mfg. Co., Bridgeport, Conn.
Standard Screw Co. ("Genuine Huntington"), 6 Madison, Chicago, Ill.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Star Corundum Wheel Co., Detroit, Mich.
Steel Set Diamond Co., 150 Nassau, New York
Stephan, C. H. Specialty Co. ("Star" Tapered Tube), Dayton, O.
Stocker, H. A. Machinery Co. ("Rearwin"), 570 Randolph, Chicago, Ill.
Superior Corundum Wheel Co., Waltham, Mass.
Tanite Co. ("Taylor"), Stroudsburg, Pa.
Vitrified Wheel Co., Westfield, Mass.
Warren Axe & Tool Co. ("Huntington" Pattern), Warren, Pa.
Waterbury Wire Die Co. ("Diamond"), Waterbury, Conn.
Wrigley, Thos. Co., 88 Michigan av, Chicago, Ill.

## 3000—Dressing (Carriage Top, Etc.)

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East Mfg. Co. ("Peerless," also Easy Lining Restorer), Buffalo, N. Y.

## 3001— Dressing (Harness)

Hollingshead, R. M. Co. ("Hollingshead" Liquid), Camden, N. J.

## 3002— Dressing (Rope)

(See also Wire Rope Coating & Lubricator)

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**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Cling-Surface Co. ("Cling-Surface") Buffalo, N. Y.
Dodge Mfg. Co., Mishawaka, Ind.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Nason, R. N. & Co. (Wire Rope), 117 Market, San Francisco, Cal.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
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Wire Rope Lubricating Co., Schener bldg, Newark, N. J.
Wolff, Norbert Co. ("Wolff"), 470 Greenwich, New York
Zurn, O. F. Co. ("Ropoleum"), Broad & Lehigh, Phila., Pa.

## 3003— Dried Blood

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Davidson Commission Co., Postal Telegraph bldg, Chicago, Ill.
Dold, Jacob Packing Co., Buffalo, N. Y.
Heller, Hirsh & Co., 62 William, New York
Hollingshurst & Co., 62 William, New York
Munro, Robt. A & Co., 31 Liberty, New York
Pittsburg Provision & Packing Co., Pittsburg, Pa.
Swift & Co., Union Stock Yards, Chicago, Ill.

## 3003a—Drifts (for Drill Sockets)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th. Cleveland, O. (See adv. index & branch offices, end of book)

## 3004— Drill Ends (Rose)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 3005—Drill Heads ("Diexco")

**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)

## 3006— Drill Presses

(See also Drills, Various Kinds)

Allen, Chas. G. Co. ("Allen" Plain Bearing), Barre, Mass.
Aurora Tool Works, Aurora, Ind.
Baker Bros., Toledo, O.
Barnes Drill Co. (All-Geared), Rockford, Ill.
Carroll-Jamieson Machine Tool Co., Batavia, O.
Champion Blower & Forge Co. ("Champion"), Lancaster, Pa.
**CHICAGO FLEXIBLE SHAFT CO.** (Flexible Shaft), 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Cincinnati Pulley Machinery Co. ("Avey" Ball Bearing"), Cincinnati, O.
Clough, R. M., Tolland, Conn.
**COATES CLIPPER MFG. CO.** ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)
D'Armour, E. ("D'Armour," Bench), 78 Cortlandt, New York
Corbin-Church Co., Plainville, Conn.
Foote-Burt Co. (High Duty), Cleveland, O.
Frontier Iron Works ("Modern"), Buffalo, N. Y.
Gem Mfg. Co. ("Gem," Portable Screw Feed for Use with Flexible Shafting), Pittsburg, Pa.
Gould & Eberhardt, Newark, N. J.
Hamilton Machine Tool Co. ("Hamilton," Sliding Head Upright), Hamilton, O.
Henry & Wright Mfg. Co., Hartford, Conn.
Hoefer Mfg. Co., Freeport, Ill.
Kern Machine Tool Co., Cincinnati, O.
Knight, W. B. Machinery Co., St. Louis, Mo.
Millers Falls Co. ("Universal" Hand), 28 Warren, New York
National Machine Co. ("W. & R." Sensitive, etc., 1 to 10 Spindles), Hartford, Conn.
National Separator & Machine Co. (Cylinder Turret), Concord, N. H.
Nicholls, Wm. S, 253 B'way, New York
Redin, Ekstrom & Co. ("Universal"), Rockford, Ill.
Reed, Francis Co. (1 to 4 Spindles, Capacity ⅛ to ⅝ inch), Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
Rockford Lathe & Drill Co. (Sensitive), Rockford, Ill.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sibley Machine Tool Co. (Geared), South Bend, Ind.
Sigourney Tool Co., Hartford, Conn.
Slate, Dwight Machine Co., Hartford, Conn.
Sloan & Chace Mfg. Co. (Ltd.) (Bench), Newark, N. J.
Stow Mfg. Co., Binghamton, N. Y.
Superior Machine Tool Co., Kokomo, Ind.
Taylor & Fenn Co. (Four Spindle Simultaneous Feed), Hartford, Conn.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 3007— Drill Speeders

Graham Mfg. Co. ("Graham"), Providence, R. I.

## 3008—Drill & Vise Combined

Adams, A. L., Cedar Rapids, Iowa
Millers Falls Co., 28 Warren, New York
Strange, E. W. & Co., Taunton, Mass.

## 3009— Drills (Air Hammer)

(For Mining & Construction)

**FAIRBANKS, MORSE & CO.** ("Sinclair"), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**SULLIVAN MACHINERY CO., People's Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**
Whitcomb, Geo. & Co., Rochelle Ill.

## Drills (Artesian Well)

(See Machinery, Well Drilling)

## 3010— Drills (Automatic)

Baush Machine Tool Co., Springfield, Mass.
Garvin Machine Co., 143 Varick, New York
Goodell-Pratt Co., Greenfield, Mass.
Hoefer Mfg. Co., Freeport, Ill.
Millers Falls Co. ("Grave's" Hand), 28 Warren, New York
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Slate, Dwight Machine Co., Hartford, Conn.
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 3011—Drills (Beet Planting)

Allen, S. L. & Co., Phila., Pa.
American Seeding Machine Co., Springfield, O.
Bacon Mfg. Co., Pontiac, Mich.
Bateman Mfg Co., Grenloch, N. J.
Fetzer, Wm. Co. ("McSherry," "Columbia," "Plymouth," "Fetzer"), Springfield, Ill.
Gale Mfg. Co., Albion, Mich.
Parlin & Orendorff Co., Canton, Ill.
Wayne Works, Richmond, Ind.

## 3012— Drills (Bench)

Allen Machine Co., Cleveland, O.
Barnes Drill Co., Rockford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Blissfield Motor Works ("Davenport"), Blissfield, Mich.
Boynton & Plummer (Upright), Worcester, Mass.
Clark, Jas., Jr., Electric Co. (Sensitive "Willey," Electrically Driven), Louisville, Ky.
D'Armour, E. ("D'Armour," Drill Press), 78 Cortlandt, New York
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Gardam, Wm. & Son (Inc.) (Sensitive Type), 80 Park pl, New York
Garvin Machine Co., 143 Varick, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv index & branch offices, end of book)
Goodell-Pratt Co. (Hand & Power), Greenfield, Mass.
Gowanda Agricultural Works (For Cutlery Factories), Gowanda, N. Y.
Hoefer Mfg. Co. ("Hoefer" Friction & Belt Driven), Freeport, Ill.
Miami Valley Machine Tool Co. ("Patterson" Friction Disc Driven, 10-inch Sensitive), Dayton, O.
Millers Falls Co., 28 Warren, New York
Oliver, W. W. Mfg. Co., Buffalo, N. Y.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Reed, Francis Co., Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
Sigourney Tool Co., Hartford, Conn.
Silver Mfg. Co., Salem, O.
Slate, Dwight Machine Co., Hartford, Conn.
Sloan & Chace Mfg. Co., Newark, N. J.
Smurr & Kamen Machine Co. ("Champion"), 313 Sacramento et, Chicago, Ill.
Stearns, E. C. & Co., Syracuse, N. Y.
**STRONG, CARLISLE & HAMMOND** Co. (The Ideal), Cleveland, Ohio. (See adv. index, end of book)
U. S. Electric Tool Co., Cincinnati, O.
Willey Machine Co., Jeffersonville, Ind.

## 3013— Drills (Bit Stock)

Cincinnati Tool Co., Norwood, Cincinnati, O.
**CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)**
**DETROIT TWIST DRILL CO., Detroit, Mich** (See adv. index, end of book)
Lincoln-Williams Twist Drill Co. (For Metal or Wood), Taunton, Mass.
Mayhew, H. H. Co., Shelbourne Falls, Mass.
**MORSE TWIST DRILL & MACHINE** Co. (For Metal or Wood), New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co., Detroit, Mich.
New Process Twist Drill Co. (Twist), Taunton, Mass.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)**
Syracuse Twist Drill Co., Syracuse, N. Y.
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3014— Drills (Blacksmiths')

American Foundry & Mfg. Co., St. Louis, Mo.
Bauer Bros. Co. ("Foos"), Springfield, O.
Boynton & Plummer, Worcester, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. ("Western Chief.," Automatic Self-Feed), Chicago Heights, Ill.
Champion Blower & Forge Co., Lancaster, Pa.
Cincinnati Tool Co., Norwood, Cincinnati, O.
**CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)**
High Speed Drill Co. ("Collis"), Dubuque, Ia.
Illinois Iron & Bolt Co. (Horizontal & Upright), Carpentersville, Ill.
Lincoln-Williams Twist Drill Co., Taunton, Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
New Process Twist Drill Co. (Twist), Taunton, Mass.
Niles-Bement-Pond Co., 111 B'way, New York.
Noyes, B. B. & Co. ("Little Giant"), Greenfield, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Pratt & Whitney Co., Hartford, Conn.
Reed, Francis Co. (Upright & Post), Worcester, Mass.
Russ, A. E. Mfg. Co., Cleveland, O.
Silver Mfg. Co., Salem, O.
Southern Skein & Foundry Co. (Horizontal), Chattanooga, Tenn.
**STANDARD TOOL CO., 6900 Central av, Cleveland, O. (See adv. index & branch offices, end of book)**
Swett, A. L. Iron Works (Steel Spindle, etc.), Medina, N. Y.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River" Ball Bearing Swing Table Automatic Feed), Greenfield, Mass.

## Drills (Boiler Shell)

(See Drilling Machines, Boiler)

## 3015—Drills (Brace & Chain Combined)

Millers Falls Co., 28 Warren, New York

## 3016— Drills (Bracket)

**STRONG, CARLISLE & HAMMOND** Co. ("The Berlin"), Cleveland, O. (See adv. index, end of book)

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## 3017— Drills (Breast)

(See also Pneumatic Breast Drills)

Boynton & Plummer (Combined Breast & Upright), Worcester, Mass.
**CHICAGO FLEXIBLE SHAFT CO.** (Flexible Shaft), 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Clark, Jas., Jr., Electric Co. (Electrically Driven), Louisville, Ky.
**COATES CLIPPER MFG. CO.** ("Coates" Housed Geared Flexible Shaft), Worcester, Mass. (See adv. index, end of book)
Fray, Jno. S. Co. (Inc.), Bridgeport, Conn.
Gem Mfg. Co. ("Gem" for Use with Flexible Shafting), Pittsburg, Pa.
**GENERAL ELECTRIC CO., Schenectal** av, Cleveland, O. (See adv. index & branch offices, end of book)
Goodell-Pratt Co., Greensfield, Mass.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Millers Falls Co. (Ball Bearing), 28 Warren, New York; Works: Millers Falls, Mass
North Bros. Mfg. Co. ("Yankee"), Phila., Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Stanley Rule & Level Co., New Britain, Conn.
Stow Flexible Shaft Co., N 26th & Callowhill, Phila., Pa.
Turner & Deegan, Bristol, Conn.
Willey Machine Co. ("Willey" Portable Electric), Jeffersonville, Ind.

## 3018— Drills (Brick & Stone)

(For Drilling Holes for Expansion Bolts, Etc.)

Braunsdorf-Mueller Co., Elizabeth, N. J.
**DIAMOND EXPANSION BOLT CO.** ("Diamond N"), 90 West, New York. (See adv. index, end of book)
Hanna Engineering Works (Electric Portable) 2059 Elston, Chicago, Ill.
Hubbard & Co. ("Pierce"), Pittsburg, Pa.
Irving Mfg. & Tool Co. ("Osborn"), 169 Chambers, New York
Kraeuter & Co., Newark, N. J.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
**STAR EXPANSION BOLT CO. ("Sebco")**, 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO., 124 N 6th, Phila., Pa.** (See adv. index, end of book)

## 3019— Drills (Center)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Lincoln-Williams Twist Drill Co., Taunton. Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index end of book)
New Process Twist Drill Co. (Twist), Taunton, Mass.
Pratt & Whitney Co., Hartford, Conn.
**SLOCOMB, J. T. CO., 29 Oxford,** Providence, R. I. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3020— Drills (Chain)

Goodell-Pratt Co. ("Giant" Automatic and Ratchet), Greenfield, Mass.
Grabler Mfg. Co. ("Wonder" & "Grabler" Self-Feeding), Cleveland, O.
Millers Falls Co. ("Millers Falls"), 28 Warren, New York; Works: Millers Falls, Mass.

## 3021— Drills (Clamp)

Boynton & Plummer (New Swivel Self-Feeding), Worcester, Mass.
Reed, Francis Co. (4 Sizes), Worcester, Mass.
Stow Flexible Shaft Co., N 26th & Callowhill, Philadelphia, Pa.
Tecktonius, E. C. Mfg. Co., Racine, Wis.

## 3022—Drills (Coal & Rock)

(See also Machines, Coal Cutting)

American Diamond Rock Drill Co., 90 West. New York
American Mining Tool Co. ("Little Giant," Auber Type Coal), Ottumwa, Ia.
Beall Bros. (Inc.) (Coal Drills), Alton, Ill.
Bittenbender, W. W. & Co., Nanticoke, Pa.
Cyclone Machine Co. (Hand Only), Pittston, Pa.
Demarest, D. D. Co., ("Pacific") San Francisco, Cal.
Dagen, Jas. (Hand & Power), Wyoming, Pa.
Enterprise Foundry ("Acme," Hand, Coal Mining) Harvey, Ill.
Fulton Tool Works (Coal), Canal, Fulton, O.
Goodman Mfg. Co. (Auger Type), Halsted & 48th pl, Chicago. Ill.
Hardsocg, Martin Co. (Auger, etc., Coal), N S, Pittsburg, Pa.
Hardsocg Mfg. Co. (Hand), Ottumwa, Ia.
Hardsocg Wonder Drill Co., Ottumwa, Ia.
Herzler-Henninger Machine Works ("Tornado"), Belleville, Ia.
Howell's Mining Drill Co. (Hand & Power), Plymouth, Pa.
Hubbard & Co., Pittsburg, Pa.
**INGERSOLL-RAND CO. ("Sergeant," "Little Giant," "Electric-Air"), 11 B'way,** New York. (See adv. index & branch offices, end of book)
Iron City Tool Co. (Anthracite & Soft Coal), Pittsburg, Pa.
Iwan Bros. (Hand & Power), South Bend, Ind.
**JEFFREY MFG. CO. (Coal), Columbus,** O. (See adv. index & branch offices, end of book)
Klein-Logan Co. (Hand), Pittsburg, Pa.
Leetonia Tool Co., Leetonia, O.
Le Grand Mine Drill Works, Wilkes-Barre, Pa.
McCormack Drill & Mfg. Co. (Air), Boone, Ia.
Marvin Electric Drill Co., Binghamton, N. Y
Morgan-Gardner Electric Co. (Power), 2642 Shields av, Chicago, Ill.
Nixon Mining Drill Co., Chattanooga, Tenn.
Peoria Coal Drill Works, Peoria, Ill.
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick" Auger, Grip, Wood & Steel Post), Cheswick, Pa.
Salem Tool Co. (Coal Only), Salem, O.
Wantling Mfg. Co., Peoria, Ill.
Warwood Tool Co. (Coal Miners'), Wheeling. W. Va.
What Cheer Tool Co. ("Walker"), What Cheer, Iowa

## 3023—Drills (Combination Center)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Lord, L. L. Co. ("Lord"), Meadville, Pa.
**SLOCOMB, J. T. CO., 29 Oxford,** Providence, R. I. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av. Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 3024—Drills (Compressed Air)

Compressed Air Machinery Co. ("Giant"), San Francisco, Cal.
Economic Machinery Co. ("Dietz" Airoelectric Rock), Denver, Colo.
Howell's Mining Drill Co., Plymouth, Pa.
**INGERSOLL-RAND CO. ("Sergeant," "Little Giant"), 11 B'way, New York.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO. ("Phillips"),** Columbus, O., & 41 Dey, New York. (See adv. index & branch offices, end of book)
McKiernan-Terry Drill Co., 115 B'way, New York
Rix Compressed Air & Drill Co. (Also North Steel Baby Drill), San Francisco, Cal.
Rogers, Jno. M. Works, Gloucester City, N. J.

## 3025— Drills (Core)

American Diamond Rock Drill Co. ("Diamond" Prospecting), 90 West, New York
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BIRDSBORO STEEL FOUNDRY & Machine Co.,** Birdsboro, Pa.
Cyclone Drill Co. ("Diamondite," "Preslar" Prospecting), Orrville, O.
Ellison, Wm. & Sons Mfg. Co., St. Louis, Mo.
**INGERSOLL-RAND CO. ("Davis Calyx," "Diamondless"), 11 B'way,** New York. (See adv. index & branch offices, end of book)
Lake Shore Engine Works (Diamond), Marquette, Mich.
McKiernan-Terry Drill Co. (Hand & Power), 115 B'way, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)
Standard Diamond Drill Co. ("Diamond," Capacity 350 to 6,000 ft.), Chamber of Commerce bldg, Chicago, Ill.
**SULLIVAN MACHINERY CO. ("Diamond"),** Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3026— Drills (Corn Planting)

American Drill Co., Marion, Ind.
American Seeding Machine Co. (With Fertilizer Attachment), Springfield, O.
Avery, B. F. & Sons, Louisville, Ky.
Campbell Corn Drill Co. (Corn Drills, etc.), Harrison, Ohio
Case, J. I. Plow Works, Racine, Wis
Chambers, Bering, Quinlan Co., Decatur, Ill.
Deere & Mansur Co., Moline, Ill.
Deuscher, H. P. Co., Hamilton, O.
Emerson Mfg. Co., Rockford, Ill.
Fetzer, Wm. Co. ("McSherry," "Columbia," "Plymouth," & "Fetzer") Springfield, Ill.
Gale Mfg. Co., Albion, Mich.
Hapgood Plow Co., Alton, Ill.
Hayes Pump & Planter Co., Galva, Ill.
Moline Plow Co., Moline, Ill.
Ohio Rake Co., Dayton, O.
Parlin & Orendorff Co., Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Quincy Corn Planter Co. ("Barlow"), Quincy, Ill.
Racine-Sattley Co., Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. ("Rock Island," "Rival," "Star") Rock Island, Ill.
Rude Bros. Mfg. Co. (With Fertilizer Attachment), Liberty, Ind.
St. Joseph Plow Co., St. Joseph, Mo.
Sechler, D. M. Implement & Carriage Co., ("Black Hawk"), Moline, Ill.
Shortsville Wheel Co., Shortsville, N. Y.
Thomas Mfg. Co., Springfield, O.
Wayne Works, Richmond, Ind.

## 3027— Drills (Cotter)

Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

## 3028—Drills (Cotton Planting)

American Seeding Machine Co., Springfield, O.
Avery, B. F. & Sons, Louisville, Ky.
Case, J. I. Plow Works, Racine, Wis.
Deere & Mansur Co., Moline, Ill.
Moline Plow Co., Moline, Ill.
Racine-Sattley Co., Springfield, Ill., & Racine, Wis.
Rock Island Plow Co., Rock Island, Ill.

## 3029— Drills (Diamond)

Grant-Lees Machine Co. (For Optical & Mechanical Use), Cleveland, O.
Mendes Cutting Factories, 12 John, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## Drills (Diamond Core)

(See Drills, Core)

## 3030— Drills (Electric)

(See also Drills, Electric Portable)

Clark, Jas., Jr., & Co., Louisville, Ky.
Deer, A. J. Co. ("Royal"), Hornell, N. Y.
Emerson Electric Mfg. Co. (Motor Driven), 2030 Washington av, St. Louis, Mo.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv index & branch offices, end of book)
Holtzer-Cabot Electric Co. ("H.-C." Vertical for Jewelry Works, Drilling Lenses, etc.), Brookline, Mass.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Scranton Electric Construction Co. (For Mining Gypsum, Fire Clay, etc.), Scranton, Pa.
Stow Mfg. Co., Binghamton, N. Y.

## 3031—Drills (Electric-Air)

**INGERSOLL-RAND CO., 11 Broadway, New York.** (See adv. index & branch offices, end of book)

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## 3032—Drills (Electric Portable)

Anderson Electric Machine Tool Co., St. Louis, Mo.
Cary, Jas. E., Portland, Me.
**CHICAGO PNEUMATIC TUBE CO.** ("Duntley" Air Cooled) Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cincinnati Electrical Tool Co., Cincinnati, O.
**COATES CLIPPER MFG. CO., Worcester, Mass.** (See adv. index end of book)
Fortuna Machine Co. (Importers), 127 Duane, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv index & branch offices, end of book)
Hisey-Wolf Machine Co., Cincinnati, O.
**Lamb Electric Co., Grand Rapids, Mich.**
Sprague, Electric Co., 527 W 34th, New York
Stow Mfg. Co., Binghamton, N. Y.
United States Electrical Tool Co. (Hand), Cincinnati, O.
**Van Dorn & Dutton Co., Cleveland, O.**
Victor Electric Co., 55 Market, Chicago, Ill.

## Drills (Electrician's)

(See Drills & Bits, Electricians')

## 3033— Drills (Extension)

Grabler Mfg. Co. (For Drilling Into I Beams or Concrete), Cleveland, O.
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York, (See adv. index & branch offices, end of book)

## 3034— Drills (Fertilizer)

**Allen, S. L. & Co., Philadelphia, Pa.**
American Seeding Machine Co., Springfield, O.
**Bateman Mfg. Co., Grenloch, N. J.**
Fetzer, Wm. Co. ("McSherry," "Columbia," "Plymouth," & "Fetzer") Springfield, Ill.
**Genung, C. W. ("Iron King" Hand), Madison, Ohio.**
Hench & Dromgold & Co., York, Pa.
Keystone Farm Machine Co., York, Pa.
Rude Bros. Mfg. Co., Liberty, Ind.
Spangler Mfg. Co., York, Pa.
Thomas Mfg. Co., Springfield, O.
Wayne Works, Richmond, Ind.

## Drills (Flat High Speed)

(See Drills, Flat Twist).

## 3035— Drills (Flat Twist)

(See also Drills, Twist.)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 3036— Drills (Fluted)

**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 3037—Drills (Friction Disc)

Barnes, W. F. & Jno. Co. ("Barnes" Bench), Rockford, Ill.
Mechanics Machine Co., Rockford, Ill.

## 3038— Drills (Gang)

Barnes Drill Co. (Also Swing Gang), Rockford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Cincinnati-Bickford Tool Co., Cincinnati, O.
**FREVERT MACHINERY CO., 18 Dey,** New York (See adv. index, end of book)
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Garvin Machine Co., 137 Varick, New York
Hoefer Mfg. Co., Freeport, Ill.
Machanics Machine Co., Rockford, Ill.
Moline Tool Co., Moline, Ill.
Pratt & Whitney Co., Hartford, Conn.
Rockford Drilling Machine Co., Rockford, Ill.
Slate, Dwight Machine Co., Hartford, Conn.
Snyder, J. E. & Son, Worcester, Mass.

## 3039—Drills (Garden Seed)

Genung, C. W., Madison, O.
Hess Mfg. Co., Nappanee, Ind.

## 3040— Drills (Grain)

American Drill Co., Marion, Ind.
**American Seeding Machine Co. (Hoe, Shoe, Disc, also Low Down Press), Springfield, O.**
Beaver Dam Mfg. Co., Beaver Dam, Wis.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Champion Drill Co., Avon, N. Y.
**Champion Wagon Co., Owego, N. Y.**
Children's, E. Sons Mfg. Co., Council Bluffs, Ia.
Crown Mfg. Co., Phelps, N. Y.
Dempster Mill Mfg. Co., Beatrice, Neb.
**Dowagiac Mfg. Co., Dowagiac, Mich.**
Emerson Mfg. Co., Rockford, Ill.
Farquhar, A. B. Co. (Ltd.) (Force, Feed, Grain, Grass & Phosphite), York, Pa.
Fetzer, Wm. Co. ("McSherry," "Columbia," "Plymouth," & "Fetzer") Springfield, Ill.
Geiser Mfg. Co., Waynesboro, Pa.
Genesee Valley Mfg. Co., Mount Morris, N. Y.
Gundlach's, Philip M. Sons, Bellville, Ill.
Hapgood Plow Co., Alton, Ill.
Hayes Pump & Planter Co., Galva, Ill
Hench & Dromgold Co., York, Pa.
Hocking Valley Mfg. Co., Lancaster, O.
Houser & Haines Mfg. Co., Stockton, Cal.
La Crosse Plow Co., La Crosse, Wis.
Lean, Roderick Mfg. Co., Mansfield, O.
Messinger Mfg. Co. (With Grass Seeder), Tatamy, Pa.
Monitor Drill Co., Minneapolis, Minn.
National Drill Co., Cambridge City, Ind.
Ontario Drill Co., E. Rochester, N. Y.
Owatonna Mfg. Co., Owatonna, Minn.
Peoria Drill & Seeder Co., Peoria, Ill.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Rude Bros. Mfg. Co., Liberty, Ind.
St. Joseph Plow Co., St. Joseph, Mo.
Spangler Mfg. Co., York, Pa.
**Spring Grain Drill Mfg. Co., Peru, Ind.**
Thomas Mfg. Co., Springfield, O.
Van Brunt Mfg. Co. (Shoe & Hoe & Low Down Press), Horicon, Wis.
Wayne Works, Richmond, Ind.

## 3041— Drills (Grain Disc)

(See also Drills, Grain)

American Drill Co., Marion, Ind.
American Seeding Machine Co., Springfield, O.
Beaver Dam Mfg. Co., Beaver Dam, Wis.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Champion Drill Co., Avon, N. Y.
Crown Mfg. Co., Phelps, N. Y.
Dempster Mill Mfg. Co., Beatrice, Neb.
Dowagiac Mfg. Co., Dowagiac, Mich.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fetzer, Wm. Co. ("McSherry," "Columbia," "Plymouth," & "Fetzer") Springfield, Ill.
Genesee Valley Mfg. Co., Mt. Morris, N. Y.
La Crosse Plow Co., La Crose, Wis.
**Rock Island Plow Co. (Comb Disc Drill & Harrow), Rock Island, Ill.**
Spangler Mfg. Co., York, Pa.
Van Brunt Mfg. Co., Horicon, Wis.
Thomas Mfg. Co. (Plain & Fertilizer), Springfield, O.
Wayne Works, Richmond, Ind.

## 3042—Drills (Grain & Fertilizer Combined)

Thomas Mfg. Co. ("Thomas") Springfield, O.

## Drills (Hammer)

(See Drills, Air Hammer)

## Drills (Hammer, Brick & Stone)

(See Drills, Brick & Stone)

## 3043— Drills (Hand Power)

Bauer Bros. Co. ("Foos" Blacksmiths'), Springfield, Ohio
Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.
**CHICAGO FLEXIBLE SHAFT CO.** (Flexible Shaft) 81 La Salle av, Chicago, Ill. See adv. index & branch offices, end of book)
**COATES CLIPPER MFG. CO., Worcester, Mass.** (See adv. index, end of book)
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
Duff Machine Co., Lowell, Mass.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fray, Jno. S. Co. (Inc.) (Malleable Iron Frame), Bridgeport, Conn.
Fortuna Machine Co., 127 Duane, New York
Goodell-Pratt Co. (Double Geared, etc.), Greenfield, Mass.
Hisey-Wolf Machine Co., Cincinnati, O.
**Illinois Iron & Bolt Co., Carpentersville, Ill.**
**INGERSOLL-RAND CO., 11 Broadway,** New York (See adv. index & branch offices, end of book)
Jones, E. D. & Sons Co. (For Metal), Pittsfield, Mass.
Millers Falls Co. (Ball Bearing), 28 Warren, New York; Works: Millers, Falls, Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
North Bros. Mfg. Co. ("Yankee," Automatic & Reciprocating, for Carpenters, etc.), cor N American & Lehigh av, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Reed Francis Co., Worcester, Mass.
Rutschmann, Oscar, F., 426 Berks, Phila., Pa.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Tower & Lyon Co., 95 Chambers, New York
U. S. Electrical Tool Co., Cincinnati, O.
Upton & Gillman (With Screw Feed & Chain Attachment), Lowell, Mass.

## Drills (High Speed)

(See Drills, Twist, High Speed)

## 3044— Drills (Hollow)

**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Clevenland, O. (See adv. index & branch offices, end of book)
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
National Twist Drill & Tool Co. ("National," Hollow Mill), Detroit, Mich.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 3045— Drills (Letter)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Lincoln-Williams Twist Drill Co., Taunton, Mass.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 3046—Drills (Marble & Granite)

Lincoln Iron Works, Rutland, Vt.
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 3047— Drills (Mine Ratchet)

Jones, Geo. ("Jones'" Reversible), Chattanooga, Tenn.
Nixon Mining Drill Co., Chattanooga, Tenn.
Peglar Mfg. Co., Chattanooga, Tenn.
What Cheer Tool Co. ("Moser"), What Cheer, Iowa

## 3048—Drills (Mine, Self-Feeding)

**Ohio Brass Co., Mansfield, Ohio.**

## 3049—Drills (Multiple Spindle)

Ajax Mfg. Co. (For Drilling Brake Pins, Bolts, etc., 6, 8, 10 & 12 Spindles), 3830 Lakeside av, N E, Cleveland, O.
**American Tool Works Co., Cincinnati, O.**
Andrew, M. L. & Co., Cincinnati, O.
Baker Bros., Toledo, O.
Barnes Drill Co. (All-Geared), Rockford, Ill.
**Barnes, W. F. & Jno. Co., Rockford, Ill.**
Barr, Henry G. & Co., Worcester, Mass.
**Baush Machine Tool Co.** (Vertical & Horizontal), Springfield, Mass.
Cincinnati-Bickford Tool Co., Cincinnati, O.
Clark, Jas., Jr., Electric Co. ("Willey," Three Spindle Electrically Driven), Louisville, Ky.
Cleveland Machine & Mfg. Co., Cleveland, O.

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**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Flather, Mark Planer Co., Nashua, N. H.
Fox Machine Co., Grand Rapids, Mich.
**FREVERT MACHINERY CO. (Mfrs'.** Agents), 18 Dey, New York. (See adv. index, end of book)
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Garvin Machine Co., 137 Varick, New York
Gowanda Agricultural Works (3 Spindle), Gowanda, N. Y.
Hardinge Bros., 3135 N Lincoln av, Chicago, Ill.
Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.
Henry & Wright Mfg. Co., Hartford, Conn.
Hoefer Mfg. Co., Freeport, Ill.
Langeller Mfg. Co., Providence, R. I.
**Moline Tool Co.**, Moline, Ill.
National Automatic Tool Co. (Full Automatic Universal Drill Press), Richmond, Ind.
National Machine Co. (Spindle Drill Presses), Hartford, Conn.
Newton Machine Tool Works, 2343 Vine, Philadelphia, Pa
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Reed, Francis Co. (5 to 10 Spindles, Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
Sellers, Wm. & Co. (Inc.) (For Boiler & Plate Work), 1600 Hamilton, Phila., Pa.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)
Sigourney Tool Co., Hartford, Conn.
Slate, Dwight Machine Co., Hartford, Conn.
Taylor & Fenn Co. (Two Spindle & Four Spindle Adjustable), Hartford, Conn.
Western Machine Tool Works ("Western"), Holland, Mich.
Waltham Machine Works (Small), Waltham, Mass.

## 3050— Drills (Oil Tube)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)

## 3051— Drills (Onion)

**Allen S. L. & Co. ("Planet" Single Row), Phila., Pa.**
**Bacon Mfg. Co. ("Bacon" Two Row), Pontiac, Mich.**
**Genung, C. W. ("Iron King" Single Row), Madison, O.**
**Jelliffe, C. O. Mfg. Corporation ("Universal"), Southport, Conn.**
**Loudon Machinery Co. ("McIntosh" Two Row), Fairfield, Iowa**
Schroeder H. V. Mfg. Co. ("Schroeder" Two Row), Minier, Ill.

## 3052—Drills (Overhead or Hanging)

**Boynton & Plummer, Worcester, Mass.**

## 3053— Drills (Pipe)

**Braunsdorf-Mueller Co., Elizabeth, N. J.**
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## Drills (Piston Air)

(See Pneumatic Piston Drills)

## Drills (Plug)

(See Pneumatic Plug Drillers)

## 3054— Drills (Portable)

(See also Drills, Hand; also Pneumatic Drills)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**CHICAGO FLEXIBLE SHAFT CO.,** 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass.** (See adv. index, end of book)
**DALLETT, THOS. H. CO. (Electric** Rope Driven), 2300 York, Phila., Pa. (See adv. index, end of book)
Fortuna Machine Co., 127 Duane, New York
Gem Mfg. Co. ("Gem" Flexible Shaft, Rope & Motor Driven), Pittsburg, Pa.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv index & branch offices, end of book)
Harrington, E. Son & Co., 17th & Callowhill, Phila., Pa.
Hisey-Wolf Machoine Co., Cincinnati, O.
**INGERSOLL-RAND CO., 11 Broad**way, New York (See adv. index & branch offices, end of book)
Nazel Engineering & Machine Works, 4041 N 5th, Phila., Pa.
Newton Machine Tool Works (Electrically Driven), 2343 Vine, Philadelphia, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Reed, F. E. Co., Worcester, Mass.
Snyder, J. E. & Son, Worcester, Mass.
Stow Mfg. Co. (Flexible Shaft, Belt Driven), Binghamton, N. Y.
**STRONG, CARLISLE & HAMMOND** Co. (The Berlin), Cleveland, O. (See adv. index, end of book)
U. S. Electrical Tool Co., Cincinnati, O.

## 3055— Drills (Post)

Aurora Tool Works, Aurora, Ind.
Boynton & Plummer (Self-Feeding), Worcester, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. ("Western Chief," Automatic Self-Feed), Chicago Heights, Ill.
Champion Blower & Forge Co., Lancaster, Pa.
Goodell-Pratt Co. (Or Wall), Greenfield, Mass.
Illinois Iron & Bolt Co. (Ball Bearing, "Handy," "Bailey"), Carpentersville, Ill.
Harrington, E. Son & Co., 17 & Callowhill, Philadelphia, Pa.
Noyes, B. B. & Co., Greenfield, Mass.
Pittsburg Tool & Drop Forge Co. ("Cheswick," for Steel or Wood), Cheswick, Pa.
Potts, David H., Lancaster, Pa.
Reed, Francis Co., Worcester, Mass.
**RYERSON, JOSEPH T. & SON, 255S** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Snyder, J. E. & Son, Worcester, Mass.
Wiley & Russell Mfg. Co. ("Green River" Ball Bearing, Swing Table, Automatic Feed), Greenfield, Mass.

## 3056—Drills (Post Mining)

Howell Mining Drill Co. (Ball Bearing, Heavy Geared), Plymouth, Pa.
What Cheer Tool Co. ("Walkers," "Little Jap"), What Cheer, Ia
Whitcomb, Geo. D., Co. ("Whitcomb"), Rochelle, Ill.

## 3057—Drills (Prospecting, Hand or Power)

**AMERICAN WELL WORKS (Power** Only), Aurora, Ill. (See adv. index & branch offices, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Cyclone Drill Co., Orrville, O.
Keystone Driller Co., Beaver Falls, Pa.
Muench, George, Stamford, Conn.
New York Engineering Co. ("Empire" Hand). 2 Rector, New York
**SULLIVAN MACHINERY CO. (Dia**mond Core), Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3058— Drills (Radial)

American Tool Works Co., Cincinnati, O.
Aurora Tool Works, Aurora, Ind.
Barnes, W. F. & Jno. Co. (Horizontal), Rockford, Ill.
Baush Machine Tool Co. (Belt or Gear Driven), Springfield, Mass.
Cincinnati-Bickford Tool Co., Cincinnati, O.
Clark, Jas., Jr., Electric Co. ("Willey," Semi-Radial Electrically Driven), Louisville, Ky.
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
Dreses Machine Tool Co., Cincinnati, O.
Fitchburg Machine Works, Fitchburg, Mass.
Fcsdick Machine Tool Co., Cincinnati, O.
**FREVERT MACHINERY CO. (Mfrs'.** Agents), 18 Dey, New York. (See adv. index, end of book)
Gang, William E. Co., Cincinnati, O.
Hamilton Machine Tool Co. (60 to 120-inch), Hamilton, O.
Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.
Henry & Wright Mfg. Co., Hartford, Conn.
Hilbert Machine Co. ("Hilbert"), Cincinnati, Ohio
Kane & Roach, Syracuse, N. Y.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Morris, John B. Machine Tool Co. ("Morris"), Cincinnati, O.
Mueller Machine Tool Co. (Cone Driven, 2½ to 4 Foot Arm, etc.), Cincinnati, O.
Newton Machine Tool Works, 2347 Vine, Philadelphia, Pa.
Niles-Bemet-Pond Co., 111 B'way, New York
Optenberg Iron Works Co., Sheboygan, Wis.
Prentice Bros. Co. (Gear Speed Change), Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
**RYERSON, JOSEPH T. & SON, 255S** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
**STRONG, CARLISLE & HAMMOND** Co., 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Taylor & Fenn Co. (Light), Hartford, Conn.
Western Machine Tool Works ("Western"), Holland, Mich.

## 3059—Drills (Rail Bonding)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Coulter-Payton Co. (Electric), Hammond, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co., Kalamazoo, Mich.

## 3060—Drills (Railway Track)

Bissell, F. Co. ("Security"), Toledo, O.
Boynton & Plummer (Swivel Clamp), Worcester, Mass.
Buda Co. ("Paulus" Automatic Feed, "Buda" Heavy Base & "Wilson" for Light Work, "Rech," etc.), Railway Exchange bldg, Chicago, Ill.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**COATES CLIPPER MFG. CO., Wor**cester, Mass. (See adv. index, end of book)
Cooks Standard Tool Co. ("Standard," "Climax," Kalamazoo, Mich.
Coulter-Paxton Co., Hammond, Ind.
**FAIRBANKS, MORSE & CO.** ("Eclipse," Self-Feeding), 481 Wabash av, Chicago, Ill. (See adv. index and branch offices, end of book)
Groff Drill & Machine Tool Co., Camden, N. J.
Handlan-Buck Mfg. Co. (Self-feeding, "Waterman," "Paulus," "Beland," "Underwood," "Champion," "Noble," & "Union Pacific"), 212 N 3d, St. Louis, Mo.
High Speed Drill Co. ("Collis" High Speed), Dubuque, Ia.
**INGERSOLL-RAND CO., 11 Broad**way, New York (See adv. index & branch offices, end of book)
Johnson, Isaac G. & Co. ("Victor"). Spuyten Duyvil, New York
Irving Mfg. & Tool Co., 169 Chambers, New York
Kalamazoo Railway Supply Co. ("Moore"), Kalamazoo, Mich.
Lovejoy Tool Works ("Beland," "Lovejoy"), 335 W Ohio, Chicago, Ill.
Lowell Wrench Co. ("L. & L."), Worcester, Mass.
Michigan Machinery Mfg. Co. ("Sweet"), Ypsilanti, Mich.
Millers Falls Co., 28 Warren, New York
Pettibone, Mulliken & Co. ("Ball," "Union," "Perfection"), 204 Dearborn, Chicago, Ill.
Pratt & Whitney Co. ("Benshaw"), Hartford, Conn.
Q. M. S. Co. ("Q. & C."), Plainfield, N. J.
Ridlon, Frank Co., Boston, Mass.
Schuttler Ratchet Drill Co., 242 W Lake, Chicago, Ill.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)

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Stow Mfg. Co. (Flexible Shaft), Binghamton, N. Y.
Van Dorn & Dutton Co. (Electric Portable), Cleveland, O.
Walworth Mfg. Co. ("Smith"), Boston, Mass.

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 3061— Drills (Ratchet)

Anderson, W. H. Tool & Supply Co., Detroit, Mich.
Armstrong Bros. Tool Co. ("Armstrong" Universal), 339 N San Francisco, av, Chicago, Ill.
Ashcroft Mfg. Co., 85 Liberty, New York
**BIGNALL & KEELER MFG. CO.,** Edwardsville, Ill. See adv. index, end of book)
Billings & Spencer Co. (Double-Acting "Packer" for Flat & Square Shank Drills), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brewer Bros., Phila., Pa.
Brown, L. H. Mfg. Co. ("Neilson's" Wrench & Drill Combined), Carlinville, Ill.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Curtis & Curtis Co. (Flat & Pipe), Bridgeport, Conn.
**DETROIT TWIST DRILL CO.,** Detroit, Mich. (See adv. index, end of book)
Gallagher Mfg. Co. ("Universal"), Lynn, Mass
Gooddell-Pratt Co., Greenfield, Mass.
**Groff Drill & Machine Tool Co. (Continuous Motion Automatic Feed), Camden, N. J.**
**High Speed Drill Co. ("Collis" High Speed), Dubuque, Ia.**
Irving Mfg. & Tool Co. ("Weston's" Packer), 169 Chambers, New York
Keystone Mfg. Co. ("Monarch," "Keystone," "Nonpareil," "Giant," "Weston"), Buffalo, N. Y.
King, A. R. Mfg. Co. ("Sanford," "Packer"), Kingston, N. Y.
Lovejoy Tool Works ("Packer"), 335 W Ohio, Chicago, Ill.
Lowell Wrench Co. ("S. I. D."), Worcester, Mass.
Millers Falls Co. (Flat), 28 Warren, New York; Works: Millers Falls, Mass.
New Process Twist Drill Co. (Taper, Square Shank, etc.), Taunton, Mass.
Oswego Tool Co. ("Packer"), Oswego, N. Y.
Parker, Chas. Co., Meriden, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Pratt & Whitney Co. ("Renshaw"), Hartford, Conn.
Reed Francis, Co. (Plain & Geared), Worcester, Mass.
Schuttler Ratchet Drill Co., 242 W Lake, Chicago, Ill.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Stortz, John & Son (Flat & Pipe), 210 Vine, Phila., Pa.
Syracuse Wrench Co. ("Empire"), Syracuse, N. Y.
Walworth Mfg. Co. (Smith), Boston, Mass.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3062—Drills (Rice Planting)

American Seeding Machine Co., Springfield, O.
Fetzer, Wm. Co. ("McSherry," "Columbia," "Plymouth" & "Fetzer") Springfield, Ill.
Hayes Pump & Planter Co., Galva, Ill.
Peoria Drill & Seeder Co., Peoria, Ill.
Thomas Mfg. Co. ("Thomas") Springfield, O.
Wayne Works, Richmond, Ind.

## Drills (Rock, Air)

(See Pneumatic Rock Drills.)

## 3063—Drills (Rock, Airolectric)

Economic Machinery Co. ("Deitz"), Denver, Colo.

## 3063a—Drills (Rock, Electric)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Dulles-Baldwin Electric Drill Co., 115 B'way, New York
Economic Machinery Co. ("Dietz" Airolectric, Denver, Colo.
Gardner Elec. Drill & Machinery Co. ("Adams"), Cleveland, O.
**Goodman Mfg. Co., Halsted & 48th pl, Chicago, Ill.**
**Howell's Mining Drill Co., Plymouth, Pa.**
**JEFFREY MFG. CO. (Rotary, for Coal, Clay, Shale, etc.), Columbus, O. (See adv. index & branch offices, end of book)**
Marvin Electric Drill Co., Binghamton, N. Y.
Mine & Smelter Supply Co. ("Durkee"), 42 B'way, New York & Denver, Colo.
**Montana Electric Co., Butte, Mont.**
**Morgan-Gardner Electric Co., 2642 Shields av, Chicago, Ill.**
**Northern Electrical Mfg. Co., Madison, Wis.**
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank Bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3064—Drills (Rock, Electric-Air)

**INGERSOLL-RAND CO., 11 Broadway, New York** (See adv. index & branch offices, end of book)

## 3065—Drills (Rock, Hand)

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Cyclone Drill Co., Orrville, O.**
**DENVER ROCK DRILL & MACHINE**ry Co. ("Wangle" Hand Sinkers), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Hardsacg Wonder Drill Co., Ottumwa, Ia.
Mining Supply Co. ("Jackson", Hand Power), 66 Broad, New York

## 3066—Drills (Rock, Steam)

(See also Drills, Electric Rock; also Pneumatic Rock Drills)

Acme Road Machinery Co., Frankfort, N. Y.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Carnahan, C. T. Mfg. Co., Denver, Colo.
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Rock Drill Co. ("Cleveland"). Cleveland, O.
**DENVER ROCK DRILL & MACHIN**ery Co. ("Waugh,") for Stoping, Sinking & Drifting). B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. ("Sin**clair" all Steel), Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Holman Bros., 114 Liberty, New York
**INGERSOLL-RAND CO. ("Sergeant."** Little Giant"), 11 B'way, New York (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Le Grand Mine Drill Works (Coal & Rock Mine), Wilkes-Barre, Pa.
Leyner, J. Geo. Engineering Works Co., Littleton, Col.
McKiernan-Terry Drill Co., 115 B'way, New York
Rogers, John M. Works, Gloucester City, N. Y.
**SULLIVAN MACHINERY CO. (Steam** or Air), Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.
Wickes Bros. ("Murphy's" Little Champion). Saginaw, Mich

## 3066a— Drills (Rose)

Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.

## 3067— Drills (Routing Bit)

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Cen**av, Cleveland O. See adv. index & branch offices end of book)

## 3068— Drills (Sensitive)

American Tool Works Co., Cincinnati, O.
American Watch Tool Co. (Adapted for Meter Mfrs., Tool Room & Laboratory Work), Waltham, Mass.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Barr, H. G. & Co., Worcester, Mass.
Buescher Band Instrument Co., Elkhart, Ind.
Carroll-Jamieson Machine Tool Co. (11-Inch Belt Driven), Batavia, O.
Cincinnati Pulley Machinery Co. (Ball Bearing), Covington, Ky.
Clark, Jas., Jr., Electric Co. ("Willey," Electrically Driven), 313 W Main, Louisville, Ky.
Crane Machine Tool Co. (Friction), Cincinnati, Ohio
Fox Machine Co., Grand Rapids, Mich.
Gardam, Wm. & Son (Inc.) 80 Park pl, New York
Garvin Machine Co., 137 Varick, New York
Hamilton Machine Tool Co., Hamilton, O.
Hardinge Bros., 3135 N Lincoln av, Chicago, Ill.
Harrington, E. Son & Co., 17th & Callowhill, Phila., Pa.
Helmold, J. F. & Bro., A cor Dominick, Chicago, Ill.
Henry & Wright Mfg. Co., Hartford, Conn.
Langelier Mfg. Co. (Upright), Providence, R. I.
Leland, W. H. & Co. (High Speed), Worcester, Mass.
Mechanics Machine Co., Rockford, Ill.
Miami Valley Machine Tool Co., Dayton, O.
National Machine Co. (Drill Presses), Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara Falls, Buffalo, N. Y.
Patterson Tool & Supply Co., Dayton, O.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Reed, Francis Co., Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
Rockford Lathe & Drill Co., Rockford, Ill.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sibley Machine Tool Co., South Bend, Ind.
Sigourney Tool Co., Hartford, Conn.
Slate, Dwight Machine Co., Hartford, Conn.
Taylor & Fenn Co., Hartford, Conn.
Washburn Shops of the Polytechnic Institute, Worcester, Mass.
West St. Louis Mach. & Tool Co., St. Louis, Mo.

## 3069— Drills (Shade Roller)

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)

## 3070— Drills (Shell)

American Die & Tool Co., Reading, Pa.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Lincoln-Williams Twist Drill Co., Taunton, Mass.
Lord, L. L. Co. ("Lord" Combination), Meadville, Pa.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)

## 3071— Drills (Slate)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Nixon Mining Drill Co., Chattanooga, Tenn.
Ruggles Machine Co., Poultney, Vt.

## 3072— Drills (Star)

Anderson, W. H. Tool & Supply Co., Detroit, Mich.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brewer Bros., Philadelphia, Pa.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

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Carver, Wm. Tool Works, Spring Valley, N. Y.
Kilborn & Bishop Co., New Haven, Conn.
Mound Tool & Scraper Co., St. Louis, Mo.
**STEWARD & ROMAINE MFG. CO.,** 124 N 6th, Philadelphia, Pa. (See adv. index, end of book)
Stortz, Jno. & Son (Stone), 210 Vine, Philadelphia, Pa.

## 3073—Drills (Stone Plug, Electric)

Hanna Engineering Works, 2059 Elston, Chicago, Ill.

## 3074— Drills (Stove)

**Lord, L. L. Co., Meadville, Pa.**
Wolverine Brass Works, Grand Rapids, Mich.

## 3075—Drills (Straight Shank)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Lincoln-Williams Twist Drill Co., Taunton, Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
New Process Twist Drill Co. (Twist), Taunton, Mass.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.

## 3076— Drills (Straightway)

**CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O.** (See adv. index & branch offices, end of book)
**Lincoln-Williams Twist Drill Co., Taunton, Mass.**
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**New Process Twist Drill Co. (Twist), Taunton, Mass.**
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 3077— Drills (Suspension)

**Baush Machine Tool Co., Springfield, Mass.**
**Birch & Birch (Speed, Suspended from Ceiling), Crawfordsville, Ind.**
**CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O.** (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**New Haven Mfg. Co., New Haven, Conn.**
**Niles-Bement-Pond Co., 111 B'way, New York**
**Reed, Francis Co., Worcester, Mass.**

## 3078— Drills (Tamp Churn)

**What Cheer Tool Co. (Iron & Copper for Coal Mining), What Cheer, Ia.**

## 3079— Drills (Tap)

**Bay State Tap & Die Co., Mansfield, Mass.**
**Chicago Screw Co. (For Machine Screw Taps), 1026 S Homan av, Chicago, Ill.**
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**New Process Twist Drill Co. (Hot Forged), Taunton, Mass.**
**Putnam Machine Co., Fitchburg, Mass.**
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**Winter Bros. Co., Wrentham, Mass.**
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3080— Drills (Taper Shank)

Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Lincoln-Williams Twist Drill Co. (Square Shank), Taunton, Mass.
**MORSE TWIST DRILL & MACHINE** Co. (Square Shank), New Bedford, Mass. (See adv. index & branch offices, end of book)
**New Process Twist Drill Co. (Taper Square Shank, Ratchet), Taunton, Mass.**
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3081— Drills (Three & Four Groove)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO. (Three-**Groove), Detroit, Mich. (See adv. index, end of book)
Lincoln-Williams Twist Drill Co., Taunton, Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## Drills (Track)

(See Drills, Railway Track)

## 3082— Drills (Traverse)

**Fitchburg Machine Works, Fitchburg, Mass.**
**National Machine Co. (Double Head & Adjustable), Hartford, Conn.**
**Pratt & Whitney Co. (Double Head), Hartford, Conn.**
**Putnam Machine Co., Fitchburg, Mass.**

## 3083— Drills (Turret)

National Separator & Machine Co., Concord, N. H.
**Niles-Bement-Pond Co., 111 B'way, New York**
**Quint, A. D. Hartford, Conn.**
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)

## 3084— Drills (Twist)

Acme Drill Co., Newark, N. J.
American Die & Tool Co. ("A. D. & T. Co."), Reading, Pa.
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO. ("Gra**ham"), Detroit, Mich. (See adv. index, end of book)
Ellery Twist Drill Co., Portsmouth, N. H.
**Etna Co. Taunton, Mass.**
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Lincoln-Williams Twist Drill Co. ("Peerless" High Speed), Taunton, Mass.
**Michigan Twist Drill Co., Detroit, Mich.**
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**National Twist Drill & Tool Co. ("National"), Detroit, Mich.**
**New Process Twist Drill Co. (Hot Forged), Taunton, Mass.**
Pratt & Whitney Co. (High Power), Hartford, Conn.
**ROGERS, H. A. CO. ("Morse"), 19** John, New York (See adv. index, end of book)
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**Swan, Jas. Co. (For Wood), Seymour, Conn.**
**Syracuse Twist Drill Co., Syracuse, N. Y.**
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO.** (Also Self-Oiling), Akron, O. (See adv. index & branch offices, end of book)

## 3085—Drills (Twist, High Speed)

Acme Drill Co., Newark, N. J.
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O.** (See adv. index, end of book)
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

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# "PARAGON FLATWIST" HIGH SPEED DRILLS

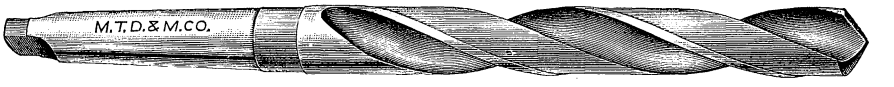
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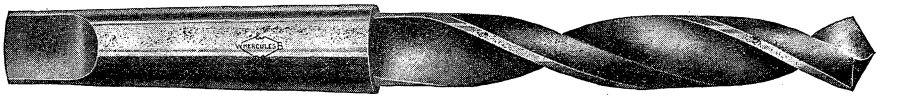
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**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co., Athol, Mass.
**WHITMAN & BARNES MFG. CO. ("Diamond," "Norka"), Akron, O. (See adv. index & branch offices, end of book)**

## 3086— Drills (Universal)

**American Tool Works Co., Cincinnati, O.**
Cincinnati-Bickford Tool Co. (Half Universal Radial), Cincinnati, O.
**Dreses Machine Tool Co., Cincinnati, O.**
**Fosdick Machine Tool Co. (Half & Full Universal Radial), Cincinnati, O.**
**Niles-Bement-Pond Co., 111 B'way, New York**

## 3087— Drills (Upright)

**Aurora Tool Works (Upright Drill Presses, 12-50 inch Swing), Aurora, Ind.**
**Baker Bros., Toledo, O.**
Barnes Drill Co. (All-Geared), Wheeling, W. Va.
**Barnes, W. F. & Jno. Co., Rockford, Ill.**
Barr, Hy. G. & Co. (Spindle), Worcester, Mass.
**Beaman & Smith Co., Providence, R. I.**
Boynton & Plummer (Hand & Power Self-Feeding Upright & Horizontal, Worcester, Mass.
Cincinnati-Bickford Tool Co., Cincinnati, O.
**Crane Machine Tool Co., Cincinnati, O.**
**Davis, W. P. Machine Co., Rochester, N. Y.**
Dietz Machine Tool Co., Cincinnati, O.
**Fay & Scott, Dexter, Me.**
**Fox Machine Co., Grand Rapids, Mich.**
**FREVERT MACHINERY CO. (Mfrs'. Agents), 18 Dey, New York. (See adv. index, end of book)**
**Frontier Iron Works ("Robertson" Tilting Table Handiest Drill), Buffalo, N. Y.**
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
**Gould & Eberhardt, Newark, N. J.**
Hamilton Machine Tool Co. (12 to 42 inch), Hamilton, O.
**Harrington, Edwin Son & Co., 17th & Callowhill, Phila., Pa.**
**Henry & Wright Mfg. Co., Hartford, Conn.**
**Hoefer Mfg. Co., Freeport, Ill.**
**Hilbert Machine Co., Cincinnati, O.**
Illinois Iron & Bolt Co. ("Illinois" Hand Power for Wagon Mfrs., etc.), Carpentersville, Ill.
Kern Machine Tool Co., Cincinnati, O.
Langeller Mfg. Co., Providence, R. I.
**Mechanics Machine Co. (Sliding Head, etc.), Rockford, Ill.**
**New Haven Mfg. Co. (With Automatic Power Feed), New Haven, Conn.**
Niles-Bement-Pond Co., 111 B'way, New York
**Pratt & Whitney Co., Hartford, Conn.**
Prentice Bros Co., Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
**Putnam Machine Co., Fitchburg, Mass.**
**Reed, F. E. Co., Worcester, Mass.**
**Reed, Francis Co. (Hand & Power, for Blacksmiths, Machinists, etc.), Worcester, Mass.**
Rockford Drilling Machine Co. (Foote Power), Rockford, Ill.
Rockford Lathe & Drill Co., Rockford, Ill.
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 16$$ Hamilton, Phila., Pa.
**Sibley Machine Tool Co., South Bend, Ind.**
Sigourney Tool Co., Hartford, Conn.
Slate, Dwight Machine Co., Hartford, Conn.
Sloan & Chace Mfg. Co., Newark, N. J.
Snyder, J. E. & Son, Worcester, Mass.
**STARK TOOL CO. (1 to 5 Spindles),** Waltham, Mass. (See adv. index, end of book)
Superior Machine Tool Co., Kokoma, Ind.
Taylor & Fenn Co., Hartford, Conn.
Whitney Mfg. Co., Hartford, Conn.
Wiley & Russell Mfg. Co. ("Green River" Upright Self-Feeding Drilling Machines, Hand & Power), Greenfield, Mass.

## 3088—Drills (Wood Boring Brace)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland O. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO., Akron, O. (See adv. index & branch offices, end of book)**

## 3088a—Drills (Wood Boring Machine)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland O. (See adv. index & branch offices, end of book)

## 3089—Drills & Bits (Electricians')

(See also Drills, Hammer, Brick & Stone)
Cincinnati Tool Co. ("Hargraves"), Cincinnati, O.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO.,** Detroit, Mich. (See adv. index, end of book)
Deuse, J. S. (Bits & Gimlets), Chester, Conn.
Dicke, C. H., Tool Co., Downers Grove, Ill.
Ford Auger Bit Co. ("Ford"), Holyoke, Mass.
**Forest City Bit & Tool Co., Rockford, Ill.**
Hubbard & Co. ("Pierce" for Brick & Stone), Pittsburg, Pa.
**Jennings, O. E. Co., 42 Murray, New York**
Kraeuter & Co. (For Brick & Stone), Newark, N. J.
Mayhew, H. H. Co., Shelburne Falls, Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**New Process Twist Drill Co.** (Twist), Taunton, Mass.
Osborne, Henry G. (For Brick & Stone), 157 Chamber, New York
Pugh, Job. T., 2100 Ludlow, Phila., Pa.
**SMITH & HEMENWAY CO. ("Red** Devil"), 150 Chambers, New York, (See adv. index & branch offices, end of book)
Snell Mfg. Co., Fiskdale, Mass.
**STANDARD TOOL CO., 6900 Cen**tral av, Cleveland, O. (See adv. index & branch offices, end of book)
Stortz, John & Son, 210 Vine, Philadelphia, Pa.
Swan, James Co., Seymour, Conn.
Syracuse Twist Drill Co., Syracuse, N. Y.
Union Twist Drill Co., Athol, Mass.
Wessman Tool Co., Rockford, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3090—Drills & Listers (Combined)

Gale Mfg. Co. (Riding & Walking), Albion, Mich.
Moline Plow Co. (Riding), Moline, Ill.
**Racine-Sattley Co., Racine, Wis.**
Rock Island Plow Co., Rock Island, Ill.

## 3091— Drips (Gauge Cock)

Knapp Mfg. Co., 20 Warren, New York

## 3092— Drivers (Brad)

(For Boarding or Nailing Door Mouldings)
Seymour & Whitlock, Newark, N. J.

## 3093—Drivers (Coopers' Hoop)

**Atha Tool Co., Newark, N. J.**
**Brewer Bros. (Steel), 614 Filbert, Phila., Pa.**
Drew, C. & Co., Kingston, Mass.
**Piqua Handle & Mfg. Co., Piqua, O.**
Stortz, John, & Son, 210 Vine, Phila., Pa.
**Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.**
**White, L. & I. J. Co. (Solid Steel, Also Hickory Wood), Buffalo, N. Y.**

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McIntire, G. A. & Co., Port Chester. N. Y.

## 3095—Drives (Angle Chain)

Ams, Max Machine Co. ("Positive"), Mount Vernon, N. Y.

## 3096—Drives (Chain, for Dryers)

Diamond Chain & Mfg. Co., Indianapolis, Ind.

## 3097— Drives (Power)

Cushman Elecfric Co. ("Cushman," Variable Speed, Electric Motor), Concord, N. H.
Dodge Mfg. Co., Mishawaka, Ind.
**FAWCUS MACHINE CO., 2820 Small**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Roth Bros. & Co. (Electric), Loomis & Adams, Chicago, Ill.
Stephens-Adamson Mfg. Co. (Manilla Rope), Aurora, Ill.
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)**

## 3098— Drives (Power, Friction Cone Pulley)

**EVANS FRICTION CONE CO., Newton Center, Mass. (See adv. index, end of book)**

## 3099— Drives (Rope)

Builders' Iron Foundry (Manila), Providence, R. I.
**CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index, end of book)**
**Cresson, Geo. V. Co., Allegheny av & N 17th,**
**Dodge Mfg. Co., Mishawaka, Ind. Phila., Pa.**
Hill Clutch Co., Cleveland, O.
**Howe Scale Co. (of Illinois), 1315 Wabash av, Chicago, Ill.**
**Jones & Laughlin Steel Co., Pittsburg, Pa.**
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Strait, H. N. Mfg. Co. (Vertical or Horizontal), Kansas City, Mo.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 3100— Drop Black

**Bihn & Wolff Co., Bridesburg, Phila., Pa.**
**Binney & Smith Co., 81 Fulton, New York**
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
**Seaver & Co., 120 Milk. Boston, Mass.**

## 3101—Drops (Package & Letter)

Eagle Lock Co., Terryville, Conn.

## 3102— Dross (Metal)

**Kramer, H. & Co. (Dross & Skimmings), 730 S Canal, Chicago, Ill.**
**Loraine Smelting & Refining Co., 115 Dearborn, Chicago, Ill.**
**Nassau Smelting & Refining Works, 607 W 29th, New York**
Smith, Morton B. Co., 243 Front, New York

## Drug Store Fixtures

(See Store & Bar Fixtures)

## 3103— Drums (Brake, Pressed Steel)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 3104—Drums (Car Heater)

**CHICAGO CAR HEATING CO., Railway Exchange bldg, Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)**

## 3105—Drums (Glycerine & Oil)

**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)

## Drums (Hoisting)

(See Engines, Hoisting; also Engines, Hoisting, Contractors')

## 3106— Drums (Incline)

(Incline Drums & Machinery)
**Helmick Foundry & Machine Co., Fairmont, W. Va.**
**Niles Mine & Mill Supply Co., Citizens bldg, Cleveland, O., & Niles, O.**

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Phillips Mine & Mill Supply Co., Pittsburg, Pa.
South Side Foundry & Machine Works, Charleston, W. Va.
Stine, J. C. Co., Tyrone, Pa.

## 3107—Drums (Pneumatic Sanding)

**Redin, Ekstrom & Co., Rockford, Ill.**

## 3108—Drums (Rope Driving)

Dodge Mfg. Co., Mishawaka, Ind.
**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**Poole Engineering & Machine Co., Woodberry, Station, Baltimore, Md.**
Vulcan Iron Works, Wilkes-Barre, Pa.
**Woonsocket Machine & Press Co., Woonsocket, R. I.**

## 3109— Drums (Sand)

**CUMMER, F. D. & SON CO., The** Arcade), Cleveland, O. (See adv, index, end of. book)

## 3110—Drums (Seamless Pressed Steel)

**PRESSED STEEL TANK CO. (Shipping),** 720 Hanover, Milwaukee, Wis. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 3111—Drums (Steam or Mud)

**Rast Jersey Pipe Co., Paterson, N. J.**
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Murray Iron Works Co., Burlington, Iowa.
**National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburg, Pa.**
**PETROLEUM IRON WORKS CO., Sharon, Pa. (See adv. index & branch offices, end of book)**

## Drums (Steel Shipping)

(See Barrels, Steel Shipping)

## 3112— Drums (Winding)

(See also Pneumatic Winding Drums)
**American Brake Shoe & Foundry Co., Chicago, Ill. & New York**
Baltimore Car & Foundry Co., Baltimore, Md.
**Bonnot Company, Canton, O.**
**CALDWELL, H. W. & SON CO. (For Power Scrapers or Malt Shovels), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)**
Dodge Mfg. Co., Mishawaka, Ind.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Potts, C. & A. & Co. (Inc.), Indianapolis, Ind.
Steele, J. C. & Son, Statesville, N. C.
Union Foundry & Machine Co., Pittsburg, Pa.

## 3113— Drums (Wooden)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## Dry Colors

(See Color Manufacturers)

## 3114—Dry Docks (Steel, Floating)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**Maryland Steel Co. (A Specialty), Baltimore, Md.**

## 3115—Dry Docks & Marine Railways

**(See also Shipbuilders)**

### ALABAMA.

MOBILE—Ollinger-Bruce Dry Dock Co.

### CALIFORNIA.

SAN FRANCISCO—Hall Bros. Marine Railway & Shipbuilding Co.
South San Francisco Dock Co., Nevada blk
Union Iron Works Co.

### CONNECTICUT.

GILDERSLEEVE—Gildersleeve Ship Building Co.
NEW HAVEN—Graves, Geo. M.
Petremont Boat Co.
NEW LONDON—Davidson, W. H.
New London Marine Iron Works
**Thames Marine Railway Co.**
NOANK—Palmer, Robt. & Son Ship Bldg. & Marine Railway Co.

### DELAWARE.

WILMINGTON—Amer. Car & Foundry Co.
Harlan & Hollingsworth Corporation
Pusey & Jones Co. (Marine Railway)

### FLORIDA.

**JACKSONVILLE—Merrill-Stevens Co.**

### GEORGIA.

SAVANNAH—Kehoe Iron Works
Rourke, John, & Sons

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**MOUND CITY—Mound City Marine Railway & Dry Dock Co.**

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**JEFFERSONVILLE—Howard Ship Yards Co.**

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Sewall, Arthur & Co.
**BELFAST—Merchants Marine Railway Co.**
PORTLAND—Portland Shipbuilding Co.
ROCKLAND—Snow, I. L. & Co.

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Booz Bros., ft of E Montgomery
**Cahill, W. S. Co.**
Chesapeake Marine Railway Co.
Marine Railway Machine & Boiler Works
**Maryland Steel Co., Sparrows Point**
Nilson Yacht Building Co., Ferry Bar
**Reeder, Oliver & Son, Hughes av & Covington**
Shoop, Frank J., ft Stevenson, Locust Point
Skinner Ship Building & Dry Dock Co.
Spedden Shipbuilding Co.
Woodall, Wm. E. & Co., Locust Point
SALISBURY—Salisbury Marine Railway Co.
SOLOMONS—Marsh, J. T.
**SPARROWS POINT—Maryland Steel Co. (Dry Dock & Marine Railway)**
WHITEHAVEN—Catlin, W. J. & Bro.

### MASSACHUSETTS.

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Crandall, H. I. & Son Co., 102 Border
East Boston Dry Dock Co., 80 Border
**Ellis, W. H., 17 Milk**
Hayes, Geo. & Co., 166 Devonshire
Lawler Bros., 16 City sq, Chtn.
**Lockwood Mfg. Co. (Marine Railway), 63 Summer, E. B.**
**Rendle, W. S. & Co., 135 Prescott, E. B.**
Ross, Jos. Corporation, 28 School
Simpson's Patent Dry Dock Co., Marginal n Jeffries
Tidd, L. R., 166 Devonshire
GLOUCESTER—Burnham Bros. (Railway)
Rocky Neck Marine Railway Co.
MARBLEHEAD—Burgess, W. Starling (Ltd.)
Frazier, J. H. (Railway)

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Dupuis, A. J. Co., 1802 Ford bldg
Griffin, M. J., 169 Stanton av
HOUGHTON—Croze, Jos.
PORT HURON—Fitzgerald, J. H. & T. J.
WEST BAY CITY—Davidson, Jas. (Dry Docks Only)

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DULUTH—Grignon, Peter Jr.

### MISSOURI.

ST. LOUIS—American Car & Foundry Co., 915 Olive

### NEW JERSEY.

CAMDEN—Dialogue, Jno. H. & Son
HOBOKEN—Tietjen & Lang Dry Dock Co.
JERSEY CITY—Brown Dry Dock Co., ft Burt & Mitchell Co., ft Morris Essex
Hanley, Wm. T., ft of Washington
Miller, Alex. & Bro., ft of Morris
Palmer, Isaac J., ft of Hudson
PERTH AMBOY—Perth Amboy Dry Dock Co.
Raritan Dry Dock Co.
WEEHAWKEN—Union Dry Dock & Repair Co.
Weehawken Dry Dock Co.

### NEW YORK.

BUFFALO—Buffalo Dry Dock Co.
Empire Shipbuilding Co., ft Genesee
Riley's Dry Dock, ft Charles
GRASEY POINT—Bannon & Sutherland
GREENPORT—Greenport Basin & Const. Co.
KINGSTON—Baisden, Jno. S. & Co.
Hiltebrant, Conrad Dry Dock Co.
NEWBURGH—Marvel, T. S. Shipbuilding Co. (Marine Railways)

### NEW YORK CITY.

#### Borough of Brooklyn.

**BROOKLYN—Atlantic Dock Co., 1 N Pier, Atlantic Dock**
**Crane's, Theo. A. Sons, Erie Basin**
**Downing & Lawrence, ft Court**
Erie Basin Dry Dock, ft of Beard & Long
Gokey, Wm. & Son, Erie Basin Dock
Morse Dry Dock & Repair Co., ft 57th
N. Y. Dock Co., ft Montague
**Robins, Jno. N. Co., ft Dwight, Erie Basin**

#### Boroughs of Manhattan & Bronx.

NEW YORK—American Car & Foundry Co., 165 Broadway
Burlee Dry Dock Co., 1 B'way
Crane's, T. A., Sons' Co., 80 Broad
Havana Dry Dock Co., 21 State
Hunter's Point Dry Dock Co., 1 B'way
McWilliams, Frank, 1 B'way
Newport News Shipbuilding & Dry Dock Co., 30 Church
Robins, Jno. N. Co., 15 Whitehall
Shewan, Jas. & Sons, ft of Houston
Starin, Jno. H., Pier 13, N R.
Tregarthen, Jas. Son & Co., ft 7th, E R.
**(End of New York City)**
OGDENSBURG—St. Lawrence Marine Railway Co.

### NORTH CAROLINA.

WASHINGTON—Mutual Machine Co.
WILMINGTON—Skinner, Louis H.

### OHIO.

ASHTABULA—Laird, Jas. G. Lumber Co.
CINCINNATI—Queen City Marine Railway Co.
CLEVELAND—American Shipbuilding Co.
TOLEDO—Gilmore Bros., ft McKinney
**Toledo Marine Railway, Summit av nr Manhattan Mills**

### PENNSYLVANIA.

PHILADELPHIA—Cramp, Wm. & Sons Ship & Engine Building Co.

### RHODE ISLAND.

PROVIDENCE—Providence Dry Dock & Marine Railway
WICKFORD—Saunders, A. E.

### SOUTH CAROLINA.

CHARLESTON—Riverside Iron Works

### TEXAS.

GALVESTON—Galveston Wharf Co.
International Creosoting & Construction Co.

### VIRGINIA.

BERKLEY—Colonna Marine Railway Corp.
NORFOLK—Core, W. T.
Smith & McCoy
Taylor, Geo. T.
PORTSMOUTH—Portsmouth Marine Ry.

### WASHINGTON.

SEATTLE—Moran Co.
Puget Sound Bridge & Dredging Co.

### WISCONSIN.

MANITOWOC—Burger, H. B., Jr.
Manitowoc Dry Dock Co. (Gravity & Floating Dry Docks)
MILWAUKEE—Milwaukee Dry Dock Co.
SUPERIOR—Superior Shipbuilding Co.

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FOR
MECHANICALLY DRYING EVERYTHING
FIFTEEN YEARS EXPERIENCE

Continuous Gypsum Calcining Plants.

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CLEVELAND, OHIO, U. S. A.

## 3116—Dryer & Calcining Apparatus

**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)

## Dryers (Asbestos Rock)

(See Dryers, Cement & Asphalt)

## 3117— Dryers (Beet Pulp)

Jackson, Church Wilcox, Co. ("Petry & Hecking"), Saginaw, Mich.

## 3118—Dryers (Brick & Clay)

(See also Kilns, Dry)

American Blower Co., Detroit, Mich.
**AMERICAN CLAY MACHINERY CO.,** Bucyrus, O. & Willoughby, O.
American Process Co., 68 William, New York
Casey-Hedges Co., Chattanooga, Tenn.
Chambers Bros. Co., 52d, bel. Lancaster av, Philadelphia, Pa.
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Manufacturers Equipment Co. ("Justice", Radiated Heat Dryer), Dayton, O.
Martin, Henry, Brick Machine Mfg. Co., Lancaster, Pa.
Means Engineering & Foundry Co., Toronto, O.
Morrison, Trammell Brick Co., Rome, Ga.
National Blower Works, Milwaukee, Wis.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
**Ohio Ceramic Engineering Co. (Hot Air), Cleveland, O.**
**Pratt Pressed & Firebrick Co., Van Meter, Ia.**
Raymond, C. W. Co., Dayton, Ohio
Rodgers, L. E. Engineering Co. ("Rodgers" Waste Heat Dryer), 108 La Salle, Chicago, Ill.
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)
**Sparta Brick & Tiling Co. (Open Air), Sparta, Mich.**
**Standard Dry Kiln Co., Indianapolis, Ind.**

## 3119—Dryers (Cartridge Shell)

**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book
**ROCKWELL, W. S. CO., 50 Church, New York (See adv. index, end of book)**

## 3120—Dryers (Cement & Asphalt)

**Adt, Jno. B., 332 N Holliday, Baltimore, Md.**
**ALLIS-CHALMERS CO. (Cement & Ore), Milwaukee, Wis. (See adv. index & branch offices, end of book)**
Alsing, J. R. Co., 90 West, New York
American Blower Co., Detroit, Mich.
American Process Co. (Automatic), 68 William, New York
Atlas Dryer Co., Cleveland, O.
**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index & branch offices, end of book)
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Emerick, Geo. S., Nazareth, Pa.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
**Renneburg, E. & Sons Co., Baltimore, Md.**
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)
Sharon Boiler Works, Sharon, Pa.
Smith, Theodore & Sons Co., Jersey City, N. J.
Steritt-Thomas Foundry Co., Pittsburg, Pa.
Variety Iron & Steel Works Co., Cleveland, O.
Vulcan Iron Works, Wilkes-Barre, Pa.

## 3121—Dryers (Centrifugal, Metal Parts)

Centrifugal Dryer Co. (For Drying Metals), Worcester, Mass.
Curtis, Albert B. ("Curtis" for Drying Small Parts that are either Nickled or Dipped, etc.), Worcester, Mass.
Tolhurst Machine Works (For Drying Metals), Troy, N. Y.

## 3122—Dryers (Coal, Stone, Etc)

**BARTLETT, C. O. & SNOW CO. (For Coal),** French st., Cleveland, O. (See adv. index & branch offices, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**RUGGLES - COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

## 3123— Dryers (Coffee)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
American Process Co., 68 William, New York
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Salem Iron Works ("Hege"), Winston Salem, N. C.

## 3124— Dryers (Cylinder)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)**

## 3125— Dryers (Dish)

Perfection Dish Dryer Co. ("Perfection"), Indianapolis, Ind.

## 3126— Dryers (Fertilizer)

**Adt, Jno. B., 332 N. Holliday, Baltimore, Md.**
**American Process Co., 68 William, New York**
Anderson, V. D. Co. (1 to 3 Cylinder), Cleveland, O.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
**RUGGLES - COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)

## Dryers (Fish Scrap)

(See Dryers, Fertilizer)

## 3127—Dryers for Concentrates

American Process Co., 68 William, New York
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
**RUGGLES - COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)

## 3128— Dryers (Garbage)

American Process Co., 68 William, New York
Anderson, V. D. Co. (Also Tankage), Cleveland, O.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**KUTZTOWN FOUNDRY & MACHINE CO.,** 116 N Broad, Phila., Pa. (See adv. index & branch offices, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)

## 3129—Dryers (Grain & Malt)

**Adt, Jno. B., 332 N. Holliday, Baltimore, Ind.**
**American Process Co., 68 William, New York**
**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index & branch offices, end of book)
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)

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Hess Warming & Ventilating Co. (Pneumatic System), 131 La Salle, Chicago, Ill.
Louisville Drying Machinery Co., (Distillers & Brewers Dryers)
Morris, Henry G., 333 Walnut, Phila., Pa.
National Blower Works, Milwaukee, Wis.
Nordyke & Marmon Co., Indianapolis, Ind.
Remmers, B. & Sons (Also for Starch, Vegetables, Chemicals, etc.), Bourse bldg, Phila., Pa.
Renneburg, E. & Sons Co., Baltimore, Md.
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Thacher, Geo. H. & Co., Albany, N. Y.
Vogt, Henry Machine Co., Louisville, Ky.
Worrell, S. E., Hannibal, Mo.

## 3130—Dryers (Hoof or Bone)

American Process Co., 68 William, New York
Anderson, V. D. Co., Cleveland, O.
Bigelow Co., New Haven, Conn.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index end of book)
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)

## 3131—Dryers (Jacketed Cylindrical)

American Process Co., 68 William, New York
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Petty, J. K. & Co. (Lebanon Boiler Works), Stephen Girard bldg, Phila., Pa. Works: Lebanon, Pa.
Renneburg, E. & Sons Co., Baltimore, Md.

## 3132— Dryers (Laboratory)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)

## 3133—Dryers (Leaf Tobacco)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
American Process Co., 68 William, New York
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Philadelphia Textile Machinery Co., Phila., Pa.

## 3134—Dryers (Leather Scrap)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)

## 3135— Dryers (Lumber)

American Blower Co., Detroit, Mich.
American Process Co., 68 William, New York
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Turney Drier Co., Louisville, Ky.

## Dryers (Malt)

(See Dryer, Grain & Malt)

## 3136— Dryers (Meal)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
American Process Co., 68 William, New York
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Great Western Mfg. Co., Leavenworth, Kan.
Nordyke & Marmon Co. (Steam, etc.), Indianapolis, Ind.
Remmers, B. & Sons, Bourse bldg., Phila., Pa.
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)
Worrell, S. E., Hannibal, Mo.

## 3137—Dryers (Milk, Vacuum)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)

## 3138— Dryers (Mold)

American Process Co., 68 William, New York
Hanna Engineering Works ("Hanna" Portable), 2059 Elston av, Chicago, Ill.
Tilghman-Brooksbank Sand Blast Co. (Portable. for Foundry Use), 1126 S 11th, Phila., Pa.

## 3139—Dryers (Nitrate of Soda)

**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)

## 3140— Dryers (Ore)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Process Co., 68 William, New York
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Chalmers & Williams (Revolving), Chicago Heights, Ill.
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Denver Engineering Works Co., Denver, Colo.
Hendy, Joshua, Machine Works, San Francisco
Honhorst, Joseph, Co., Cincinnati, O. Cal.
**JEFFREY MFG. CO., Columbus, O** (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., 42 B'way, New York & Denver, Colo
**POWER & MINING MACHINERY CO.** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**RUGGLES-COLES ENGINEERING CO.** 58 Church, New York. (See adv. index & branch offices, end of book)
**STANDARD SAND & MACHINE CO.** 5157 St. Clair, Cleveland, O. (See adv. index, of book)
Stearns-Roger Mfg. Co. ("Edwards"), Denver, Colo.
Union Iron Works Co., San Francisco, Cal.

## Dryers (Pebble)

(See Sand & Gravel Heaters & Dryers)

## 3141—Dryers (Reclaimed Plaster)

**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)

## 3142— Dryers (Revolving)

American Process Co., 68 William, New York
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
**RUGGLES - COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)
Stauffer, Geo. E., East Stroudsburg, Pa.

## 3143—Dryers (Rock, Phosphate)

**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)
**RUGGLES - COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3144— Dryers (Rotary)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Process Co. (Direct Head Blast), 68 William, New York
**BUFFALO FOUNDRY & MACHINE** Co. (Non-Vacuum), Buffalo, N. Y. (See index, end of book)
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Mass.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Nordyke & Marmon Co., Indianapolis, Ind.
**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)
Power & Mining Machinery Co., Cudahy, Wis.
Renneburg, E. & Sons Co., Baltimore, Md.
**RUGGLES - COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)
Sharon Boiler Works, Sharon, Pa.
Stokes, F. J. Machine Co. (Vacuum), Phila., Pa.
Variety Iron & Steel Works Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Worrell, S. E. ("Worrell's"), Hanibal, Mo.

## 3145— Dryers (Rubber)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CUMMER, F. D. & SON CO. (Re**claimed Rubber), The Arcade, Cleveland, O. (See adv. index, end of book)

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## 3146– Dryers (Salt)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**RUGGLES-COLES ENGINEERING CO.,** 48 Church, New York. (See adv. index & branch offices, end of book)

## Dryers (Sand)

(See Sand & Gravel Heaters and Dryers; also Stoves, Sand Drying)

## Dryers (Slack Lime)

(See Dryers, Cement & Asphalt)

## 3147– Dryers (Soap)

American Blower Co., Detroit, Mich.
American Process Co., 68 William, New York
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## 3148– Dryers (Starch)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)

## 3149–Dryers (Tanners' Extract Chip)

**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)

## Dryers (Textile)

(See Textile Machinery. Etc., in Letter T)

## Dryers (Tobacco)

(See Dryers, Leaf Tobacco)

## 3150– Dryers (Vacuum)

(See also Vacuum Drying & Impregnating Apparatus)

**American Process Co., 68 William, New York**
**BUFFALO FOUNDRY & MACHINE** Co. (Vacuum Rotary Drum Dryers, Vacuum Rotary Dryers, Vacuum Shelf Dryers & Drying & Impregnating Apparatus), Buffalo, N. Y. (See adv. index, end of book)
Devine, J. P. Co. ("Emil Passburg" System, Drying & Impregnating Apparatus), Buffalo, N. Y.
Hubbard's, Norman Sons (Drying & Impregnating Apparatus), 265 Water, Brooklyn, N. Y.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Stokes, F. J. Machine Co. (For Pharmaceutical Purposes), Phila., Pa.
Van Loan, I. S. Co. (Inc.), Reading, Pa.

## 3151– Dryers (Veneer)

Philadelphia Textile Machinery Co. ("Proctor," Apron Conveyor), Phila., Pa.

## 3152–Dryers (Wood Chip)

**CUMMER, F. D. & SON CO. (For** Paper & Pulp Mills), The Arcade, Cleveland, O. (See adv. index, end of book)

## Drying Rooms

(See Clothes Dryers, Steam, Hot Water, Hot Air & Gas)

## 3153–Dumb Bells (Wood)

Piqua Handle & Mfg. Co., Piqua, O.
Sommer's, Jno. Son, Newark, N. J.

## 3154–Dumb Bells & Quoits

American Foundry & Mfg. Co., St. Louis, Mo.
**ARCADE MFG. CO. (Japanned** Quoits Only), Freeport, Ill. (See adv. index, end of book)
Barber Mfg. Co., Ashtabula, O.
Hardware & Woodenware Mfg. Co., 826 B'way, New York
Hellenberg & Son (Wood Dumb Bells Only), Coldwater, Mich.
Howell, W. H. (Dumb Bells Only), Geneva, Ill.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Narragansett Machine Co. (Dumb Bells of All Kinds), Providence, R. I.
Reading Hardware Co., Reading, Pa.
Swett, A. L. Iron Works, Medina, N. Y.
Tatum, Samuel C. Co., Cincinnati, O.
Weller Hdw. & Foundry Co., Horseheads, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

## 3155–Dumb Waiter Doors (Fireproof)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y., & 299 B'way, New York (See adv. index & branch offices, end of book)
**UNITED STATES METAL PRODUCTS** Co. (Successors to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 3155a– Dumb Waiter Rope

(See also Cordage & Twine Manufacturers)

**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
**COLUMBIAN ROPE CO., Auburn,** N. Y. & 62 South, New York (See adv. index, end of book)
**NEW YORK CORDAGE CO., 85 Wall,** New York, (See adv. index, end of book)
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO. (Braided), 78** Chauncy, Boston, Mass. (See adv. index, end of book)

## 3156– Dumb Waiters

### CALIFORNIA.

SAN FRANCISCO—Cahill & Hall Elevator Co.
McNicoll, A. J. Elevator Co.
**OTIS ELEVATOR CO., Stockton, North** Point & Beach. (See adv. index, end of book)
Pettitt, J. G., 33 Beale

### COLORADO.

DENVER—McCarthy, M. J. & Co.

### CONNECTICUT.

HARTFORD—Springfield Elevator & Pump Co. (Power)
NEW HAVEN—MacKenzie, Geo. M.

### ILLINOIS.

CHICAGO—Burdett-Rowntree Mfg. Co. (Automatic), 515 Laflin
Munger, Chas. L., 142 Lake
**OTIS ELEVATOR CO., 9 Jackson boul.** (See adv. index, end of book)
Reedy, J. W. Eleveator Mfg. Co., 212 W Illinois
**UNION ELEVATOR & MACHINE** Co., 215 W Ontario. (See adv. index, end of book)

### IOWA.

COUNCIL BLUFFS—Kimball Bros. Co.

### MARYLAND.

BALTIMORE—Bates', James Sons, Pratt c President
**OTIS ELEVATOR CO., Equitable bldg.** (See adv. index, end of book)
**WARSAW ELEVATOR CO. (Steel),** 111 Mercer. (See adv. index, end of book)

### MASSACHUSETTS.

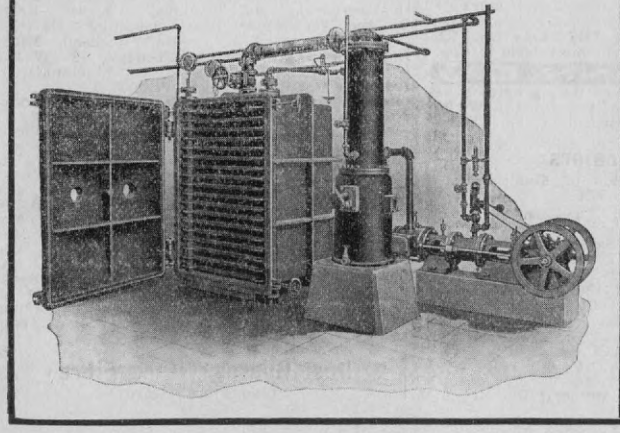
BOSTON—Beckwith Elevator Co., 123 Pearl
Brewer, Elias & Co., 19 Bowker
Kimball, C. E. & Son, 151 Pearl
Perry, Wm. J., 463a Atlantic av
SALEM—Salem Elevator Works

### MICHIGAN.

DETROIT—O'Connell, H. P.
**OTIS ELEVATOR CO., Penobscot** bldg. (See adv. index, end of book)

### MINNESOTA.

MINNEAPOLIS—Lagerquist, Gust, 516 N 3d
ST. PAUL—Franklin Machine Works
Lee & Hoff Mfg. Co.

# Vacuum Apparatus

**We build Dryers for Any Material**

**VACUUM SHELF** for drying materials that can be handled in pans or trays.

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**VACUUM ROTARY** for any material that permits being tumbled while drying.

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**Buffalo Foundry & Machine Co.**
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Miller, Wm. A. Elevator Mfg. Co.
**OTIS ELEVATOR CO., Security** bldg. (See adv. index, end of book)

## NEW JERSEY.

NEWARK—Ortner, Jos., 481 Washington
Storm Mfg. Co.
Webber, G. A.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Bergquist, Jacobson & Co., 258 3d av
Rodgers, R. M. & Co., 173 Washington av
Seaberg, Gustav, 407 Douglas

### Boroughs of Manhattan & Bronx.

NEW YORK—Bergman Mfg. Co., 304 W 127th
Burdett-Rowntree Mfg. Co. (Automatic), 147 W 26th
Burwak Elevator Co., 216 Fulton
Dowdall, Chas. E., 152 W B'way
Gordon Bros., 176 Wooster
Hoffman, Chas. W Co., 223 W. 28th
Holland, Thos. J., 211 E 84th
Larsen, Anton & Co., Brook, cor E 134th
Murtaugh, Jas. Co. (Standard), 237 E 41st
Nelson, Alex, & Co., 103 W 95th
**OTIS ELEVATOR CO., 17 Battery** pl. (See adv. index, end of book)
Roberts, Jas. H. Elevator Co., 430 W B'way
Rouquette & Co., 47 Warren
See, A. B. Electric Elevator Co., 220 B'way
**WARSAW ELEVATOR CO. (Steel),** 216 Fulton. (See adv. index, end of book)
Williams, W. & Co., 312 E 95th
**(End of New York City)**
BUFFALO—**WARSAW ELEVATOR CO.** (Steel), Erie Co. Bank bldg. (See adv. index, end of book)
COHOES—Cohoes Iron Foundry & Machine Co.
POUGHKEEPSIE—Sedgwick Machine Works (Automatic & Band Brake, Brass Tube, Simplx, etc.)
ROCHESTER—**OTIS ELEVATOR CO.,** Frank & Commercial. (See adv. index, end of book)
SYRACUSE—Houser Elevator Co.
WARSAW—**WARSAW ELEVATOR CO.** (Steel). (See adv. index, end of book)

## OHIO.

CINCINNATI—Curran, Jas. H. Elevator Co.
**OTIS ELEVATOR CO., Mercantile** Library bldg. (See adv. index, end of book)
**REEDY, H. J. CO. (Inc.) (Push** Button, Electric & Hand), 15 W 2d. (See adv. index, end of book)
**WARNER ELEVATOR MFG. CO.** (See adv. index, end of book)
CLEVELAND—Edmonds Elevator Co.
**OTIS ELEVATOR CO., 701 St.** Clair av, N E (See adv. index, end of book)
COLUMBUS—Morris, C. E. & Co., 3d & Nagh-
SIDNEY—Sidney Elevator Mfg. Co. ton
TOLEDO—Haughton Elevator & Machine Co.
Universal Machine Co.

## PENNSYLVANIA.

LANCASTER—Welchans, A. C.
PHILADELPHIA — Albro-Clem Elevator Co., 7th & Glenwood av
Energy Elevator Co., 214 New
O'Neill Elevator Co., 628 Cherry
**OTIS ELEVATOR CO., 12th & Sansom.** (See adv. index, end of book)
**WARSAW ELEVATOR CO. (Steel),** 929 Chestnut. (See adv. index, end of
PITTSBURG—Marshall Bros. book)
**OTIS ELEVATOR CO., Keenan bldg.** (See adv. index, end of book)
Union Elevator Co.
READING—**SPEIDEL, JOHN G. (See adv.** index, end of book)

## WISCONSIN.

MILWAUKEE—Brodesser Elevator Mfg. Co.
Kieckhefer, A. Elevator Co., 1$26-1104 St. Paul av

## 3157—Dumb Waiters (Electric)

Burdett-Rowntree Mfg. Co. (Automatic), 515 Laflin, Chicago, Ill.
**OTIS ELEVATOR CO., 17 Battery pl.,** New York. (See adv. index & branch offices, end of book)
Storm Mfg. Co., Newark, N. J.
**WARSAW ELEVATOR CO., Warsaw,** N. Y. (See adv. index & branch offices, end of book)

## 3158—Dumb Waiters (Pneumatic)

Curtis & Co. Mfg. Co., St. Louis, Mo.
Miles Pneumatic Tube Co., 1123 B'way, New York

## 3159—Dumb Waiters (Self-Sustaining)

Columbus Elevator & Machine Co., Columbus, Ohio
**SPEIDEL, JOHN G., Reading Pa. (See** adv. index, end of book)
Sedgwick Machine Works, Poughkeepsie, N. Y.
Storm Mfg. Co., Newark, N. J.
**WARSAW ELEVATOR CO., Warsaw,** N. Y. (See adv. index, end of book)

## Dump Boxes

(See Wagon Dump Boxes)

## 3160— Dumpers (Car)

Dodge, J. M. Co., Nicetown, Phila., Pa.

## 3161—Dumps (Automatic, Cross-Over)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading ry, Phila., Pa. (See adv. index & branch offices, end of book)
Nelsonville Foundry & Machine Co. ("Mitchell"), Nelsonville, O.
Phillips Mine & Mill Supply Co. ("Phillips"), Pittsburg, Pa.
**SULLIVAN MACHINERY CO. (Peo**ples Gas Bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3161a— Dumps (Grain)

Swanson Mfg. Co. ("Eclipse") Marseilles, Ill.

## 3162— Dumps (Ice)

Triumph Ice Machine Co., Cincinnati, O.
Wolf, Fred W. Co. (For Artificial Ice), 827 Rees, Chicago, Ill.

## 3162a— Duplexers

Sandwich Electric Co. ("Sandwich"), Sandwich, Ill.

## 3162b—Duplicating Tracing & Drawings

**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)
**SOLTMANN, E. G.**
(Also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 3163— Duplicators

(For the Reproduction of Manuscripts, Plans, Etc.)

American Duplicator Co., 3 Coenties sl, New York
American Multigraph Sales Co. ("Gammeter Multigraph", for Printing Office Forms Fac-Simile Letters, etc.), Cleveland, O.
Beck Duplicator Co. ("Eureka" & "Ideal"). 491 B'way, New York
Columbia Duplicator Co., 110 Liberty, New York
Daus Duplicator Co., 111 John, New York
Detroit Dupligraph Co. ("Dupligraph", for Duplicating Typewritten or Pen Written Matter), Detroit, Mich.
Dick, A. B. Co., 736 W Jackson blvd, Chicago, Ill.
Durkin, Reeves & Co. ("Modern"), 339 5th av, Pittsburg, Pa.
**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
Hektograph Co., 42 Murray, New York
Home & Export Duplicator Co., 89 Front, New York
Lineograph Co. ("Lineograph" Rotary or Flat), 112 Fulton, New York
**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. See adv. index, end of book)
Neidich Process Co. ("Flexotype"), Burlington, N. J.
Neostyle Co., 30 Reade, New York
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)
Peerless Duplicator Co., Detroit, Mich.
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
**SOLTMANN, E. G.**
(Also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
U. S. Printograph Co. (For Reproducing Typewritten Letters), La Crosse, Wis.
Writerpress Co. ("Writerpress," Letter Duplicator & Office Printing Machine), Shelton, Conn.

## 3164—Dust Arresters for Foundries

**CENTRAL IRON WORKS (For Ar**resting all Dust from Tumbling Mills, Emery & Polishing Wheels & Sand Blast Rooms), Quincy, Ill. (See adv. index, end of book)
Cleveland Nickel Works ("Glassford"), Cleveland, Ohio
Sly, W. W. Mfg. Co., Cleveland, O.

## 3164a— Dust Blowing Sets

**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## 3165—Dust Collectors (Mechanical)

Allington & Curtis Mfg. Co., Saginaw, Mich.
American Blower Co., Detroit, Mich.
Banister, A. W. (Separators), 421 Dorchester av, S B, Boston, Mass.
**Barnard & Leas Mfg. Co.**, (Rotary Pneumatic), Moline, Ill.
Bowman, Walker (Plans & Specifications for Flint, Coal, Paint, Cement, etc.), 39 Cortlandt, New York
Buffalo Forge Co., Buffalo, N. Y.
**CENTRAL IRON WORKS, Quincy,** Ill. (See adv. index, end of book)
**Clark, T. F., Co.**, Seattle, Wash.
Cyclone Blow Pipe Co. ("Cyclone"), 541 W Jackson blvd, Chicago, Ill.
**Day Co. ("Day"), Minneapolis, Minn.**
**Dixie Mfg. Co.**, ("Cyclone"), Baltimore, Md.
**Empire Blower & Pipe Co.**, Rochester, N. Y.
**Garden City Fan Co.**, Fisher Bldg., Chicago, Ill.
Grand Rapids Blow Pipe & Dust Arrester Co. ("Up-to-date"), Grand Rapids, Mich.
Knickerbocker Co. ("Cyclone," "Morse" Rarified for Sand Blast, Tumbling Barrels, etc.) Jackson, Mich.
Lee, Thos. (Also Furnace Feeders), 130 W 2d, Cincinnati, O.
Mannen & Esterly Co., Cleveland, O.
**Meadon's, T. J. Sons**, 51 Greenpoint av, Brooklyn, N. Y.
Miller, J. K. Co. ("Western"), Seattle, Wash.
National Blow Pipe & Mfg. Co., New Orleans, La.
National Blower Works, Milwaukee, Wis.
Ohio Blower Co. (Also Furnace Feeders), 326 Prospect av, N W, Cleveland, O.
Porbeck Otto, 2017 N B'way, St. Louis, Mo.
Prinz & Rau Mfg. Co. ("Perfection"), Milwaukee, Wis.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Sterling Blower & Pipe Mfg. Co., Hartford, Conn.
Tennessee Blow Pipe Co., Chattanooga, Tenn.
Venderbush & Looman, Detroit, Mich.

## Dust Guards (Hard Fibre)

(See Fibre, Hard)

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## 3166—Dust Guards (Journal Box)

Franklin Mfg. Co. (Asbestos), Franklin, Pa.
Gould Coupler Co., 347 5th av, New York
Harrison Dust Guard Co., Toledo, O.
Kirby Equipment Co., 9 Jackson blvd. Chicago, Ill.
McCord & Co., 150 Michigan av, Chicago, Ill.
Soule Raw Hide Lined Dust Guard Co., 11 Devonshire, Boston, Mass
Symington, T. H., Co. ("Symington"), Baltimore, Md
Western Railway Equipment Co. ("Security"). St. Louis, Mo.

## 3167— Duster Mfrs.

Dearborn Duster Co. (Feather, Waven, Down & Wool), 127 S Green, Chicago, Ill.
Hoag Duster Co. ("Hoag", Hand Split Feather), Monticello, Iowa
Homer Bros. & Muir Co. (Antiseptic), Boston, Mass.
Howard Dustless Duster Co. ("Howard"), Boston, Mass.
Hunter Brush Mfg. Co. (Family, etc.), Blanchester, Ohio
**OSBORN MFG. CO. (Wire, Fibre.** Bristle, etc.), 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)

## 3168— Dusters (Bran)

Nordyke & Marmon Co., Indianapolis, Ind.

## 3169—Dusters (Paper Mill)

Noble & Wood Machine Co. (Fan, Pin & R. R.), Hoosick Falls, N. Y.

## 3170— Dyestuffs

American Dyewood Co., 84 William, New York
Arnold, Hoffman & Co., Providence, R. I.
Atteaux, F. E. & Co., Boston, Mass.
Avery Chemical Co., Boston, Mass.
Badische, Co., 128 Duane, New York
Berlin Aniline Works, 213 Water, New York
Bischoff, C. & Co., 451 Washington, New York
Boley, C. H. & Co., 3722 N Randolph, Phila.
Bosson & Lane, Quincy, Mass. Pa
Bredt, F. & Co. (For Paper Mills), 240 Water, New York
Cassella Color Co., 182 Front, New York
Central Dyestuff & Chemical Co., Newark N. J
Chemical Importing & Mfg. Co. (For Bleachers, Dyers, etc.), 90 West, New York
Corey, S. J. Co., Boston, Mass.
Danker & Marston, Boston, Mass.
Ford, J. B. Co., Wyandotte, Mich.
Fuerst Bros. & Co., 2 Stone, New York
Geisenheimer & Co., 181 Front, New York
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Hollingsworth & Peterson, Lafayette bldg, Phila., Pa
Innis, Speiden & Co., 46 Cliff, New York
Isenstein, Otto & Co., 90 Wall, New York
Jaeck, Lewis & Co., 257 Front, New York
Kalle & Co., 530 Canal, New York
Klipstein, A. & Co., 122 Pearl, New York
Lewis, Jno. D., Providence, R. I.
Leyland, Thos. & Co., 60 India, Boston, Mass
Metz, H. A. & Co., 122 Hudson, New York
National Aniline & Chemical Co., 100 William, New York
Nicol, J. M. & J. S., North Paterson, N. J.
Roessler & Hasslacher Chemical Co., 100 William, New York
Schieffelin & Co., c Beekman & William, New York
Solvay Process Co., Syracuse, N. Y.
Swan & Finch Co., 151 Maiden la, New York
Sykes, Walter F. & Co., 85 Water, New York
Thayer, E. M. & Co., Boston, Mass.
Van Brunt, J. A. & Co., 80 William, New York
West Indies Chemical Works (Ltd.), 84 William, New York
Wolf, Jacques & Co., Passaic, N. J.

When writing to firms whose names appear in this book please mention
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## 3171— Dynamite Mfrs.

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
Austin Powder Co., Cleveland, O.
Burton Powder Co. ("Good Luck"), Pittsburg, Pa.
Dittmar Powder Works, 102 W 130th, New York

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Giant Mfg. Co., Kenvil, N. J.
Hall, Ellis & Sons Co., Knox, Pa.
Hancock Chemical Co., Dollar Bay, Mich.
Independent Powder Co., Joplin, Mo.
Jefferson Powder Co., Birmingham, Ala.
Keystone National Powder Co., Emporium, Pa.
King Powder Co., First National Bank bldg, Cincinnati, O.
McAbee, G. R. Powder & Oil Co., Pittsburg, Pa.
National Powder Co., 200 5th av, New York
Potts Powder Co., 200 5th av, New York
Rockdale Powder Co., York, Pa.
Texas Dynamite Co., Beaumont, Tex.
Thomas, H. H. (Est. of), Bay City, Mich.

## 3171a— Dynamite Substitute

American Dynalite Co. ("Dynalite"), Elyria, Ohio

## 3171b— Dynamo Oil Cups

**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

## 3172—Dynamo & Motor Mfrs.

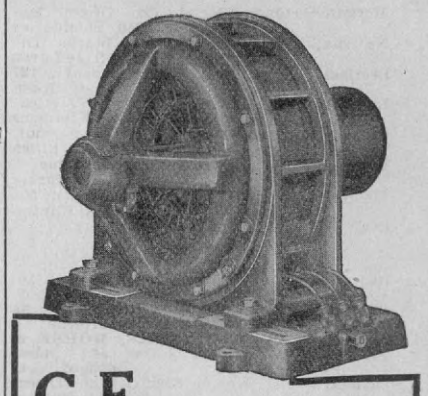
(For Light & Power)
(See also Dynamos, Electro Plating; also Dynamo Meters; also Generators, Various Kinds; also Motors, Various Kinds)

### CALIFORNIA.

SAN FRANCISCO—**FAIRBANKS, MORSE** Co., of Chicago, Ill. (Direct & Alternating). (See adv. index, end of book)
Union Iron Works

### COLORADO.

DENVER—**FAIRBANKS, MORSE & CO.**, of Chicago, Ill. (Direct & Alternating). (See adv. index, end of book)



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### DELAWARE.

WILMINGTON—**MORRIS ELECTRIC CO.**, (Small Dynamos)

### GEORGIA.

AUGUSTA—Moore-Edenfield Electric & Mfg. Company

### ILLINOIS.

CHICAGO—Aaron Electric Co. (Direct Current), 124 S Clinton
Allen Electric Co. (Direct Current), 212 S Jefferson
**FAIRBANKS, MORSE & CO.** (Direct & Alternating), 481 Wabash av. (See adv. index, end of book)
Garden City Fan Co., Fisher bldg
Globe Electric Co. (Alternating), 6340 Stony Island av
Gregory Electric Co., 16th & Lincoln
Guarantee Electric Co., 400 S Clinton
Kimble Electric Co. ("Kimble" Single Phase Motor, 1121 Washington Blvd.

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Morgan-Gardner Electric Co. (Direct Current), 2640 Shields av
National Stamping & Electric Works (Direct Current), 212 S Jefferson
Peerless Electric Co. (Direct Current), 127 S Green
Roth Bros. & Co. (Direct Current Vertical Shaft Motors), 1400 W Adams
United Pump & Power Co. (Thompson), 84 Van Buren
Victor Electric Co. (Direct Current, Small), 55 Market
Western Electric Co. (Direct Current), 500 S Clinton
QUINCY—Central Iron Works (Motors)

## INDIANA.

ANDERSON—Jenney Electric Mfg. Co. (Direct Current & Belted)
FORT WAYNE—Fort Wayne Electric Works (Inc.), ("Wood," Direct & Alternating
INDIANAPOLIS—**FAIRBANKS, MORSE & Co.** (Direct Current). (See adv. index, end of book)
TERRE HAUTE—Kester Electric Co. (Direct Current Motors)

## KENTUCKY.

LOUISVILLE—**FAIRBANKS, MORSE &** Co. (Direct & Alternating). (See adv. index, end of book)
Clark, Jas., Jr., Electric Co. ("Willey," Direct Current)
OWENSBORO—Kentucky Electrical Co., Inc., (Direct Current)

## MAINE.

PORTLAND—Maine Electric Co.
Portland Co. (Slow Speed)

## MASSACHUSETTS.

BROOKLINE—Holtzer-Cabot Electric Co. (Direct Current)
HYDE PARK—**STURTEVANT, B. F. Co.** (Direct Current) (See adv. index, end of book)
LOWELL—New England Motor Co. (Direct Current)

## MICHIGAN.

DETROIT—**FAIRBANKS, MORSE & CO.** (Direct & Alternating). (See adv. index, end of book)
**Fisher Electrical Works (Direct Current)**
Fuller Co. (Direct Current)
GRAND HAVEN—Dake Engine Co.
GRAND RAPIDS—Lamb Elec. Co. (Direct)
ST. JOSEPH—Engberg's Electrical & Mechanical Works (Direct Current)

## MINNESOTA.

MINNEAPOLIS—Electric Machinery Co. (Direct & Alternating)
**FAIRBANKS, MORSE & CO. (Direct** & Alternating). (See adv. index, end of book)
Lagerquist, Gust (Direct Current)
ST. PAUL—Northwestern Electric Equipment Co. ("Perfection," Direct Current)
Olson, Boettger Electric Mfg. Co. (Direct Current, Small)

## MISSOURI.

JEFFERSON CITY—Star Dynamo Co. (Direct Current)
ST. LOUIS—Advance Electric Co. (Alternating)
Emerson Elec. Mfg. Co. (Direct Current)
**FAIRBANKS, MORSE & CO., of Chi**cago, Ill. (Direct & Alternating). (See adv. index, end of book)
Wagner Electric Mfg. Co.

## NEW HAMPSHIRE.

CONCORD—Cushman Elec. Co. (Direct Current)

## NEW JERSEY.

AMPHERE—Crocker Wheeler Co. (Direct & Alternating)
BAYONNE—Electro-Dynamic Co. (Direct Current)
**BELLEVILLE — ECK DYNAMO & MO**tor Co. (Direct Current Dynamos & Motors & Alternating Current Dynamos), (See adv. index, end of book)
BOUND BROOK—American Engine Co. (Direct Current Dynamos)
GARWOOD—Garwood Electric Co. ("C. & C." Direct Current)
HARRISON—**WALSH'S SONS & CO.** (See adv. index, end of book)
IRVINGTON—Conn. Dynamo & Motor Co.
ROSELLE PARK—Shedd Electric Co. (Direct Current, Small)

## NEW YORK.

BINGHAMTON—Stow Mfg. Co. (Direct Current)
Stow Mfg. Co. (Direct Current)
BROOKLYN — U. S. Electric-Galvanizing Co. (Low Voltage Dynamos), 3 Park av
BUFFALO—McCarthy Bros. & Ford (Direct Current)
ELBRIDGE—Elbridge Electrical Mfg. Co. (Direct Current, Small)
MEDINA—Swett, A. L. Iron Works (Direct Current, Small)
NEW YORK—Bell Electric Motor Co. (Direct Current), 30 Church
Bogue, Chas. J., Electric Co. (Direct Current), 513 W 29th
Bunnell, J. H. & Co., Park pl & Church
**FAIRBANKS, MORSE & CO., of Chi**cago, Ill. (Direct & Alternating), 133 Liberty. (See adv. index, end of book)
Green, W. Electric Co. (Direct Current Small Motors), 81 Nassau
Lanigan & Rosemont Elec. Co. (Direct Current, Small Motors), 6 W 3d
**OTIS ELEVATOR CO. (For Elevators &** Pumps Only), 17 Battery pl. (See adv. index, end of book)
**Sprague Electric Co. ("Lundell" Direct Current). 527 W 34th**
**Western Electric Co. (Direct Current), 57 Bethune**
ROCHESTER — Rochester Elec. Motor Co. (Direct Current)
SCHENECTADY—**GENERAL ELECTRIC** Co. (Direct & Alternating), (See adv. index, end of book)
WATERTOWN—Eager Electric Co. (Direct Current)

## OHIO.

AKRON—Imperial Elec. Co. (Direct Current)
CANAL DOVER—Dover Electric Mfg. Co. ("Semco" Direct & Alternating)
CINCINNATI—Carlisle & Finch Co.
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Jantz & Leist Elec. Co. (Direct Current)
**SWING ELECTRIC CO. (Direct** Current). (See adv. index, end of book)
**Triumph Electric Co. (Direct Current), Oakley**
CLEVELAND—Browning Engineering Co. (Direct Current)
Cleveland Armature Works (Direct Current)
Elwell-Parker Electric Co (Direct Current)
**FAIRBANKS, MORSE & CO. (Direct** & Alternating). (See adv. index, end of book)
Lincoln Electric Co. (Direct & Alternating)
**Ohio Electric Works (Direct Current), Cleveland, O.**
**Reliance Electric & Engineering Co.**
DAYTON—**Dayton Electrical Mfg. Co. ("Dayton" up to ⅛ H. P.)**
Dayton Fan & Motor Co.
MANSFIELD—**IDEAL ELECTRIC &** Mfg. Co. (Direct & Alternating Current, Open & Enclosed). (See adv. index, end of book)
**PHOENIX ELECTRIC CO. (Direct &** Alternating). (See adv. index, end of book)
SPRINGFIELD—Robbins & Myers Co. ("Standard" Direct Current)
TOLEDO—**Bissell F. Co. (Direct & Alternating Current)**
Ricard Boiler & Engine Works (Direct Current)
WARREN—Peerless Electric Co. (Direct Current)
Warren Electric & Specialty Co.

## PENNSYLVANIA.

ERIE—Burke Electric Co. (Direct & Alternating)
Erie City Iron Works
LANCASTER—Fidelity Electric Co. (Direct Current)
NORTH GIRARD—Federal Electric Co. (Direct Current)
PHILADELPHIA—Dienelt & Eisenhardt (Direct Current), 1304 N Howard
Kinetic Electric Co. (Direct Current), 60th & Balto
Rosmossler-Bonine Electric Co. (Direct Current), 1236 N Orkney
PITTSBURG—Pittsburg Electrical & Machine Works
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg. (See adv. index, end of book)
RIDGWAY—Ridgway Dynamo & Engine Co. ("Thompson-Ryan," Direct Current)

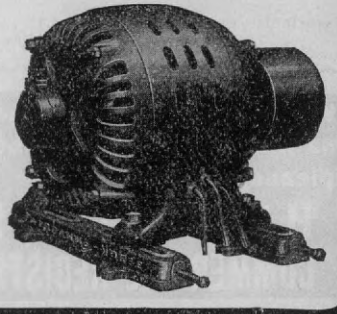
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### WASHINGTON.

SEATTLE—Erickson-Wyman Co.
N. &. S. Electric Co.

### WISCONSIN.

LA CROSSE—Benton, Thos. P. & Son (Direct Current)
MADISON—Northern Electrical Mfg. Co. (Direct & Alternating)
MILWAUKEE—**ALLIS - CHALMERS CO.**, ("Bullock," Direct & Alternating). (See adv. index, end of book)
Andrae, Julius & Sons Co. (Small)



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Keelyn Electric Co., 135 Sycamore
**MECHANICAL APPLIANCE CO.** (Direct & Alternating Current). (See adv. index, end of book)
Northwestern Mfg. Co. (Direct Current), up to 75 H. P.

## 3173— Dynamometers

**Builders' Iron Foundry, Providence, R. I.**
Central Laboratory Supply Co., Lafayette, Ind.
Diehl Mfg. Co., Elizabeth, N. J.
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York
Foote, Pierson & Co., 160 Duane, New York
**LEEDS & NORTHRUP CO., Stenton** av, Gtn, Phila., Pa. (See adv. index, end of book)
Olsen, Tinius & Co. (Traction & Power Transmission), 500 N 12th, Phila., Pa.
Pearce, Fred'k Co., 20 Rose, New York
**PHOENIX ELECTRIC CO., Mansfield,** Ohio. (See adv. index, end of book)
**QUEEN & CO. (Inc.), 1211 Arch, Philadelphia, Pa. (See adv. index, end of book)**
Roller-Smith Co. (Electro-Dynamometers for the Measurement of Electric Currents), 203 B'way, New York. Works: Bethlehem, Pa.
**SCHAEFFER & BUDENBERG MFG.** Co. ("Gidding's" Recording Traction Power & "S. & B." Indicating Traction Power), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Sprague Electric Co. (Round Type), 527 W 34th, New York
Tracy, Joseph (Fan), 116 W 39th, New York
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 3174—Dynamos (Electro Plating)

**Bishop, W. S., New Haven, Conn.**
Bogue, Chas. J. Electric Co., 513 W 29th, New York
**Boissier, Electric Co., 480 Pearl, New York**
**Bell Electric Motor Co., 30 Church, New York**
**Bogue, Chas. J. Electric Co., 513 W 29th, New York**
**Clark, Jas., Jr. Elec. Co., Louisville, Ky.**
**Crocker-Wheeler Co., Ampere, N. J.**
**Dover Electric Mfg. Co.** ("Semco"), Canal Dover, O.
Eager Electric Co., Watertown, N. Y.
**ECK DYNAMO & MOTOR CO., Belle**ville, N. J. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv index & branch offices, end of book)
Gray, G. A. Co., Cincinnati, O.
**Hanson & Van Winkle Co., Newark, N. J.**
**Holtzer-Cabot Electric Co., Brookline, Mass.**
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Jantz & Leist Electric Co., Cincinnati, O.
Jenney Electric Mfg. Co., Anderson, O.
Levett Mfg. Co., 407 Canal, New York
Lincoln Electric Co., Cleveland, O.
New England Motor Co., Lowell, Mass.
**PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)**
Rochester Electric Motor Co., Rochester, N. Y.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Pittsburg, Pa. (See adv. index, & branch offices, end of book)

## 3174a—Dynamos (Fly Wheel)

**PHOENIX ELECTRIC CO., Mansfield,** Ohio. ((See adv. index, end of book)

## Dynamos (Plating)

(See Dynamos, Electro Plating)

## 3175— Dynamos (Turbine)

De Laval Steam Turbine Co. (Direct & Alternating Current), Trenton, N. J.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3176— Dynamotors

Connecticut Dynamo & Motor Co., Irvington, N. J.
Crocker-Wheeler Co., Ampere, N. J.
**ECK DYNAMO & MOTOR CO., Belle**ville, N. J. (See adv. index, end of book)
Engineering Electric Mfg. Co., Stamford, Conn.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Robbins & Myers Co., Springfield, O.
Roth Bros. & Co. (Ringing), Loomis & Adams, Chicago, Ill.
Sprague Electric Co., 527 W 34th, New York

## Ears (Pan & Kettle, Etc.)

(See Pail Ears)

## 3177— Earth (Bleaching)

Floridin Co. ("Floridin"), Warren, Pa.

## 3178— Earth (Infusorial)

Atlas Mineral & Mach. Co., Lincoln, N. J.
Behrend, F., 54 Front, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Hammill & Gillespie, 240 Front, New York
**Salomon, L. A. & Bro., 216 Pearl, New York**

## 3178a—Earth Work Computing Table

**Pratt, Seth (Civil Engineer), Assyria, Mich.**

## Eave-Trough Mfrs.

(See Conductor Pipe & Eave-Trough Manufacturers)

## 3178b— Ecclesiastical Work (Bronzes & Plate)

**GORHAM MFG. CO., 5th av & 36th,** New York. Works: Providence, R. I. (See adv. index, end of book)

## 3179—Economizers for Carbureters

Gillett, Lehman Economizer Co. ("G. L." Gasoline Economizer), Times bldg, New York

## 3180— Edgers (Double)

**American Woodworking Machinery Co., Rochester, N. Y.. West St. bldg, New York**
Berlin Machine Works, Beloit, Wis.
**Chase Turbine Mfg. Co. (Power Feed with Movable Saw), Orange, Mass.**
Filer & Stowell Co., Milwaukee, Wis.
**Lane Mfg. Co., Montpelier, Vt.**
Murray, D. J. Mfg. Co., Wausau, Wis.
**Union Iron Works, Bangor, Me.**

## 3181— Edgers (Gang Saw)

**Adams, W. T. Machine Co., Corinth, Miss.**
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American" & "Junior"), 50 Church, New York. Works, Hackettstown, N. J.
American Woodworking Machinery Co., Rochester, N. Y.
**Baldwin, Tuthill & Bolton, Grand Rapids, Mich.**
Berlin Machine Works, Beloit, Wis.
**Butterworth & Lowe, Grand Rapids, Mich.**
**California Saw Works, San Francisco, Cal.**
**Clark Bros. Co., Belmont, N. Y.**
Corinth Engine & Boiler Works, Corinth, Miss.
**Curtis & Co. Mfg. Co.** ("Dixie," etc.), St. Louis, Mo.
**Diamond Iron Works** ("Diamond & Armstrong"), Minneapolis, Minn.
Enterprise Mfg. Co., Columbiana, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Filer & Stowell Co., Milwaukee, Wis.
**Frank Machinery Co., Buffalo, N. Y.**
**Garland, M. Co., Bay City, Mich.**
Gibbes Machinery Co., Columbia, S. C.
**Gordon Hollow Blast Grate Co.** ("The Tower"), Greenville, Mich.
**Henderson, W. K. Iron Works, Shreveport, La.**
Hill, W. E. & Co., Kalamazoo, Mich.
Holmes, S. & B. Mach'y Co., Buffalo, N. Y.
Howell, R. R. & Co., Minneapolis, Minn.
**Huntsville Foundry & Machine Works,** (Nolan & Jones, Props.). Huntsville, Ala.
**Kline, Lewis T., Alpena, Mich.**
**Knight Mfg. Co., Canton, O.**
**Lane Mfg. Co., Montpelier, Vt.**
**Lehman Machine Co., Williamsport, Pa.**
Memphis Machine Works, Memphis, Tenn.
Moltz, Jacob J., Williamsport, Pa.
**Murray, D. J., Mfg. Co., Wausau, Wis.**
Phoenix Mfg. Co., Eau Claire, Wis.
**Smith, Myers & Schnier Co., Cincinnati, O.**
**Southern Engine & Boiler Works (Inc.), Jackson, Tenn.**
**Standard Saw Mill Machinery Co., Erie, Pa.**
**Star Machinery Co., Seattle, Wash.**
**Stearns Co., The, Erie, Pa.**
**Stellman, L. H. & Son, Brattleboro, Vt.**
**Union Iron Works, Bangor, Me.**
**United States Machine Co. (Shingle, etc.), Williamsport, Pa.**
Vulcan Iron Works Co., Seattle, Wash.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.
**Williamsport Machine Co. (Shingle, etc.), Williamsport, Pa.**

## Edgers (Lumber)

(See Edgers, Gang Saw)

## 3182— Edgers (Turf)

American Fork & Hoe Co., Cleveland, O.
Continental Tool Co. (Solid Steel Bronze Finish), Frankfort, N. Y.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Jackson Shovel & Tool Co., Montpelier, Vt.
Kohler, F. E. & Co., Canton, O.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works: Leechburg, Pa. (See adv. index, end of book)
Standard Earth Auger Co. ("Finch"), 1128 Newport av, Chicago, Ill.
Union Fork & Hoe Co. (Solid Steel Bronze Finish), Columbus, O.

## 3183—Eductors (Jet Water & Sand Lifting)

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

## 3183a— Eggs (Nest)

**AMERICAN CRAYON CO. (Hygieia &** Lime), Sandusky, O., & Waltham, Mass. (See adv. index, end of book)

## 3184— Ejectors (Acid)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 3185—Ejectors (Ash, Hydraulic)

**Davidson, M. T.** ("Davidson"), 43 Keap, Brooklyn, N. Y.

## Ejectors, Jet Pumps or Syphons

(See Injectors & Ejectors, Boiler)

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## 3186—Ejectors (Pneumatic Sewage)

**MERRITT & CO. (Compressed Air),** 93 Arch, Camden, N. J. (See adv. index, end of book)
Shone Co., 861 Blackhawk, Chicago, Ill.

## 3187—Ejectors (Sewage, Automatic)

Blaisdell Machinery Co. ("Blaisdell"), Bradford, Pa.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

## Elaterite

(See Hydro Carbons)

## 3188— Elbows (Boiler)

Grabler Mfg. Co. (With Union), Cleveland, O.

## 3188a—Elbows (Boiler with Union)

**BLAKE SPECIALTY CO., 2413 3d** av, Rock Island, Ill. (See adv. index, end of book)

## 3189— Elbows (Brass)

Berglass, M. P. Plumbing Supply Co., 110 Junius, Brooklyn, N. Y.
Century Sanitary Mfg. Co., Syracuse, N. Y.
Climax Specialty Co., Ann Arbor, Mich.
Columbus Brass Works ("Columbus"), Columbus, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Dearborn Brass Co., Cedar Rapids, Ia.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Detroit Sanitary Supply Co. ("Clean-Sweep"), Detroit, Mich.
Exeter Brass Works, Exeter, N. H.
Famous Mfg. Co., Grand Rapids, Mich.
Federal-Huber Co., 236 N Halsted, Chicago,
Glauber Brass Mfg. Co., Cleveland, O. Ill.
Haines, Jones & Carbury Co., Phila., Pa.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Jarecki Mfg. Co., Erie, Pa.
Kellogg-Mackey Co., 419 W 18th, Chicago, Ill.
Kelly & Jones Co., Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McCambridge-Cooper Co., 1423 Walnut, Phila.,
McRae & Roberts Co., Detroit, Mich. Pa.
Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.
Pittsburg Valve & Fittings Co., Barberton, O.
Powell, Wm. Co., Cincinnati, O.
Rome Sanitary Mfg. Co., Rome, N. Y.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. Mfg. Co., Jefferson & Monroe, Chi-
Sanitary Co., Cleveland, O. cago, Ill.
Sanitary Co. of America, 13th & Cumberland, Phila., Pa.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Standard Mfg. Co., Pittsburg, Pa.
Street & Kent Mfg. Co., 547 Fulton, Chicago,
Walworth Mfg. Co., Boston, Mass. Ill.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.
Woodward & Wanger, 623 Cherry, Phila., Pa.

## 3190—Elbows (Cast or Malleable)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Central Foundry Co., 37 Wall, New York
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cornell & Underhill, 45 Beach, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Franklin Pipe & Foundry Co., 1155 S Paulina,
Hays Mfg. Co., Erie, Pa. Chicago, Ill.
Illinois Malleable Iron Co., 1801 Diversey blvd,
Jarecki Mfg. Co., Erie, Pa. Chicago, Ill.
Kellogg-Mackey Co., 419 W 18th, Chicago, Ill.
Kelly & Jones Co., Pittsburg, Pa.
McWayne Pipe Works, Lynchburg, Va.
Messinger Mfg. Co., Tatamy, Pa.
Millar, Chas. & Sons Co., Utica, N. Y.
National Tube Co. (Drainage Drop Flanged Long Radius), Pittsburg, Pa.
Pittsburg Valve & Fittings Co., Barberton, O.
United States Radiator Corp., Dunkirk, N. Y.
Walworth Mfg. Co., Boston, Mass.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.

## 3191— Elbows (Closet)

American Pin Co., Waterbury, Conn.
American Sanitary Mfg. Co. ("American"), Abingdon, Ill.
Becker Mill Co., Marietta, O.
Columbus Brass Works, Columbus, O.
Compound Injector & Specialty Co. ("Dehn's," "Acme"), 419 N 52d av, Chicago, Ill.
Cooper Sanitary Mfg. Co., 17th & Cuthbert, Phila., Pa.
Federal Huber Co., 236 N Halsted, Chicago, Ill., & 244 5th av, New York
Fleck Bros. Co., 44 N 5th, Phila., Pa.
Franklin Pipe & Foundry Co., 1155 S Paulina, Chicago, Ill.
Frost Mfg. Co., Kenosha, Wis.
Glauber Brass Mfg. Co., Cleveland, O.
Ideal Supply Co., Somerville, Mass.
National Tube Co., Pittsburg, Pa.
Peerless Selling Co., Evansville, Ind.
Pittsburg Valve & Fittings Co., Barberton, O.
Rome Sanitary Mfg. Co., Rome, N. Y.
Sanitary Co., Cleveland, O.
Standard Mfg. Co., Pittsburg, Pa.
Street & Kent Mfg. Co., 549 Fulton, Chicago,
Van Arnam Mfg. Co., Fort Wayne, Ind. Ill.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.

## 3193—Elbows (Conductor Pipe)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W Con**gress, Detroit, Mich. (See adv. index, end of book)
Corrugated Elbow Co. (Corrugated, etc.), Cincinnati, Ohio
**EDWARDS MFG. CO. (Corrugated,** etc.), 545-565 Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Hussey, C. G. & Co. (Copper only), Pittsburg, Pa.
Lamb & Ritchie (Corrugated, etc.), Cambridge.
Messenger & Parks Co., Aurora, Ill. Mass.
**MILWAUKEE CORRUGATING CO.** (Plain & Corrugated), Milwaukee, Wis. (See adv. index & branch offices, end of book)
New England Steel Roofing Co. (Corrugated, etc.), Worcester, Mass.
Porter Iron Roofing & Corrugating Co. (Corrugated, etc.), 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
Scott Roofing & Mfg. Co. (Corrugated, etc.), 408 Culvert, Cincinnati, O.
Tiffin Art Metal Co., Tiffin, O.

## 3194—Elbows (Plumbers' Rubber)

Climax, Specialty Co. ("Climax" Adjustable), Ann Arbor, Mich.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Glauber Brass Mfg. Co. ("Cut-Me-Off" Rubber Closet, Cleveland, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.), Detroit, Mich.
**PENNSYLVANIA RUBBER CO., Jean**nette, Pa. (See adv. index & branch offices, end of book)

## Elbows (Stove Pipe)

(See Stove Pipe & Elbow Mfrs.)

## 3195— Elbows (Street)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Brass Works, Detroit, Mich.
Exeter Brass Works, Exeter, N. H.
Flagg, Stanley G. & Co., 1421 Chestnut, Phila.,
Glauber Brass Mfg. Co., Cleveland, O. Pa.
Hays Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 1803 Diversey blvd,
Jarecki Mfg. Co., Erie, Pa. Chicago, Ill.
Kellogg-Mackey Co., 419 W 18th, Chicago, Ill.
National Tube Co., Pittsburg, Pa.
Pittsburg Valve & Fittings Co., Barberton, O.
Sanitary Co., Cleveland, O.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Sanitary Mfg. Co., Pittsburg, Pa.
United States Radiator Corp, Dunkirk, N. Y.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.

## 3196— Elbows (Union)

American Radiation Co., 282 Michigan av, Chicago, Ill.
Bard Union Co., Norwich, Conn.
Belknap Mfg. Co., Bridgeport, Conn.
Capitol Brass Works, Detroit, Mich.
Continental Radiator & Fdry Co., St. Louis, Mo.
Crane Co. (Est. 1855) (Malleable, etc.), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Brass Works, Detroit, Mich.
Exeter Brass Works, Exeter, N. H.
Flagg, Stanley G. & Co. (Malleable Iron), 1421 Chestnut, Phila., Pa.
Frankfort Brass Mfg. Co., Frankfort, Ky.
Glauber Brass Mfg. Co., Cleveland, O.
Grip Coupling Co., Ware, Mass.
Hays Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 1803 Diversey blvd, Chicago, Ill.
International Heater Co., Utica, N. Y.
Jarecki Mfg. Co., Erie, Pa.
Jefferson Union Co., Lexington, Mass.
Kelly & Jones Co. (Malleable Iron, etc.), Pittsburg, Pa.
Kellogg-Mackey Co., 419 W 18th, Chicago, Ill.
**LUNKENHEIMER CO., Beekman &** Waverly, Cincinnati, O.ncinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., Detroit,** Mich. (See adv. index, end of book)
National Tube Co. ("Kewanee"), Pittsburg, Pa.
Ohio Brass Co. ("Ohio"), Mansfield, O.
Pittsburg Valve & Fittings Co. ("Pittsburg"), Barberton, O.
Standard Mfg. Co., Pittsburg, Pa.
**STEIN, HENRY, 48 Cliff, New York.** (See adv. index, end of book)
United States Radiator Corp, Dunkirk, N. Y.
Walworth Mfg. Co., Boston, O.
Williams, D. T. Valve Co., Cincinnati, O.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.

## 3197—Elbows & Shoes (Conductor)

Berger Bros. Co., 231 Arch, Phila., Pa.
**BERGER MFG. CO., THE, Canton, O.** (See adv. index & branch offices, end of book)
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Clark, Queen & Morse, Peoria, Ill.
Dieckmann, Ferdinand Co., Cincinnati, O.
**GOFF, HORNER & CO., Ltd. (Iron),** Offices, Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index, end of book)
Reeves Mfg. Co., Canal Dover, O.
Souther, E. E. Iron Co., St. Louis, Mo.

## 3198—Election Booths (Steel or Wood)

Van Dorn Iron Works Co., Cleveland, O.

## 3199—Electric Blasting Apparatus

(See also Blasting Fuses, Caps, Etc.)
Aetna Powder Co. ("Lion"), 143 Dearborn, Chicago, Ill.
**INGERSOLL-RAND CO., 11 Broad**way, New York (See adv. index & branch offices, end of book)
Rendrock Powder Co., 11 B'way, New York
Rogers, Jno. M. Works, Gloucester, N. J.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## Electric Car Lighting Apparatus

(See Car Lighting Apparatus)

## 3200—Electric Fault Finders

**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv index & branch offices, end of book)
Matthews, W. N. & Bro. ("Telafault" for Lead Covered Cables), St. Louis, Mo.
Roller-Smith Co., 203 B'way, New York. Works: Bethlehem, Pa.

## 3201—Electric Light Central Stations

(We refer you to the McGRAW PUBLISHING CO., 239 W 39th St., New York, N. Y., publishers of the "McGraw Electrical Directory," which contains this list complete in every detail)

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## Electric Light Fixtures

(See Gas & Electric Light Fixtures, Manufacturers & Wholesalers)

## 3202—Electric Light Plants (Portable or Stationary)

Dayton Electrical Mfg. Co. (For Home, Farm or Factory), Dayton, Ohio
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## Electric Light Poles

(See Poles, Iron & Steel, Flag & Street; also Ties, Poles & Posts)

## 3203—Electric Lighting Plants for Yachts

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3204—Electric Lighting Sets

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield,** Ohio. (See adv. index, end of book)
**U. S. Rapid-Fire Gun & Power Co., Derby, Conn.**
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3205—Electric Lighting Systems (Auto)

Apple Electric Co., Dayton, Ohio
Esterline Co. ("Matchless" Auto & Motor Boat), Lafayette, Ind.
Willard Storage Battery Co., Cleveland, O.

## Electric Motor Mfrs.

(See Dynamo & Motor Manufacturers; also Motors of Various Kinds)

## 3206— Electric Novelties

Electric Appliance Co. ("Morse" High Grade Electric Belts", Electric Insoles, Inhalers, etc.), Burlington, Kans.
Ohio Electric Works, Cleveland, O.
Union Battery Co. (Miniature), Belleville, N. J.

## Electric Porcelain Supplies

(See Cleats, Porcelain & Clay)

## 3207—Electric Prints (Black, Blue or Brown)

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)

**SOLTMANN, E. G.**
(Prints 4½ ft. Wide & Any Length Made in One Piece; also everything for the Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 3208—Electric Protective Devices

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**JOHNS-PRATT CO., THE ("Noark")** Fuses & Accessories), Hartford, Conn.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 3209—Electrical Engineers & Contractors

(A complete list of this trade can likely be furnished by the McGraw Publishing Co., 239 W 39th, New York)
**OSBORNE ENGINEERING CO. (Consulting for Machinery, Power Transmission, Buildings, Electrical Railways, etc.),** Osborn bldg, Cleveland, O., & Land Title bldg, Phila., Pa. (See adv. index, end of book)
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3210—Electrical Parts & Fittings (Stamped)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 3211— Electrical Supplies

(We refer you to the McGRAW PUBLISHING CO., 239 W 39th St., New York, N. Y., publishers of the "McGraw Electrical Directory," which contains this list complete in every detail)

(For all Other Electrical Specialties see Index of Contents)

## 3212— Electro Plating

American Car & Ship Hardware Mfg. Co., New Castle, Pa.
American Plating Co. (All Kinds), Columbus, Ohio
Baldwin Brass Works (Also Buffing & Polishing), 525 W Van Buren, Chicago, Ill.
Bastian Bros. Co., Rochester, N. Y.
Bridgeport Electro Plate Co., Bridgeport, Conn.
Buckeye Mfg. Co. (All Kinds), Canton, O.
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Columbus Plating Co., Columbus, O.
Cleveland Plating Co., Cleveland, O.
Cooke, Jos. S., 20 Jacob, New York
Detroit Shipbuilding Co. (Brass Dept), Detroit, Mich.
**DONOVAN WIRE & IRON CO., Chicago & W. & L. E. Ry., Toledo, O.** (See adv. index, end of book)
Edwardsville Brass Co., Edwardsville, Ill.
Gaumer, Jno. L. Co., 22d & Wood, Phila., Pa.
Gray Iron Foundry Co. (of Castings), Reading, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Ingraham, A. S. Co., Attleboro, Mass.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Johnson Service Co. (Nickel, Copper, Brass, Bronze, Silver & Gold), Milwaukee, Wis
McKenna Bros. Brass Co. (Ltd.) (Nickel Silver, Oxidized, Copper, etc.), Pittsburg, Pa.
McMurray, Robt. T. & Bro., 365 Harmon, Brooklyn, N. Y.
Megquier & Jones Co., Portland, Me.
Meyer, Louis J., 104 S 8th, Philadelphia, Pa.
**MEYERS, FRED J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
Monumental Plating Works, Baltimore, Md.
Newell Mfg. Co. (Silver, Nickel & Brass), Ogdensburg, N. Y.
Pullman Automatic Ventilation Mfg. Co., York, Pa.
Ohio Brass Co., Mansfield, O.
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
Rockford Metal Specialty Co., Rockford, Ill.
**SCHREIBER, L. & SONS CO., 8th & Eggleston av,** Cincinnati, O. (See adv. index & branch offices, end of book)
Sessions, J. H. & Son, Bristol, Conn.
Sharpless & Watts, 1520 Sansom, Phila., Pa.
Standard Plating Works, 446 N 12th, Phila., Pa.
Stecker Electric & Machine Co., 34 Bates, Detroit, Mich.
Superior Mfg. Co., N S. Pittsburg, Pa.
Star Plating Works, Buffalo, N. Y.
Taylor & Boggis Foundry Co., Cleveland, O.
Tucke & Parker, Lowell, Mass.
**VOELKNER & HARRY MANUFACTURING Co.,** 282 Woodbridge, E, Detroit, Mich. (See adv. index, end of book)
**Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N.Y.**
W. & S. Mfg. Co., Worcester, Mass.
**White Ornamental Iron Works, Oakland, Cal.**
**White Wire Works Co., Rochester, N. Y.**
Wisconsin Iron & Wire Works (Bronze), 190 E. Water, Milwaukee, Wis.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 3213—Electro Plating (Bronze)

(See also Electro Plating)

Caldwell & Drake Iron Works, Columbus, Ind.
Cleveland Plating Co., Cleveland, O.
**Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.**
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**MEYERS, FRED J. MFG. Co., Hamilton,** O. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av,** Cincinnati, O., & 1133 B'way, New York (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**WINSLOW BROS. CO., Main Office & Works, 2515 W Harrison, Chicago, Ill.** (See adv. index & branch offices, end of book)

## 3214—Electro-Pneumatic System of Control

**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3215—Electro Silicon-Calcium

Roessler & Hasslacher Chemical Co. (Silicede-Calcium), 100 William, New York

## 3216— Electrodes

American Carbon & Battery Co. (Carbon), E. St. Louis, Ill.
American Platinum Works (Platinum), Newark, N. J.
Baker & Co. (Inc.) (Platinum), Newark, N. J.
Bishop, J. & Co. (Platinum), Malvern, Pa.
Bunnell, J. H. & Co. (Galvanic, Faradic, etc.), Park pl & Church, New York
Eimer & Amend (Platinum), 18th & 3d av, New York
Greiner, Emil Co., 45 Cliff, New York
International Acheson Graphite Co. (Carbon), Niagara Falls, N. Y.
**LEAVITT, C. W. & CO. (Carbon), 34** Church, New York. (See adv. index, end of book)
National Carbon Co. (Carbon), Cleveland, O., & Washington, Pa.
Scheidel-Western X-Ray Coil Co. (Glass & Metal), 547 W Jackson blvd, Chicago, Ill.

## 3217—Electrogrip (Drop Light)

Yost Electric Mfg. Co. (For Suspended Lights & Cords), Toledo, O.

## Electroliers

(See Gas & Electric Fixtures)

## 3218— Electrolyzers

National Laundry Machinery Co. (Self-Circulating Type), Dayton, O.

## 3219— Electromagnete

American Electric Fuse Co., Muskegon, Mich.

## 3220—Elevator Air Cushions

Ellithorpe Safety Air Cushion Co., 31 B'way, New York

## 3222—Elevator Cabs or Cars

**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
Arundel Iron Works, Baltimore, Md.
**Atlanta Wire & Iron Works Co., Atlanta, Ga.**
Balderston, H. & Son, Baltimore, Md.
Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE** Works, 4th av and Porter, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.

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**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell, Chicago, Ill. (See adv. index & branch offices, end of book)
Buffalo Wire Works Co. (Cabs), Buffalo, N. Y.
Chesapeake Iron Works, Baltimore, Md.
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Columbia Iron & Wire Works Co., Canton, O.
**COLUMBUS WIRE & IRON WORKS** Co., Columbus, O. (See adv. index, end of book)
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DONOVAN WIRE & IRON CO., Chi**cago & W. & L. E. Ry.), Toledo, O. (See adv. index, end of book)
Dow Wire & Iron Works, Louisville, Ky.
Dufur, Baggott & Co., Baltimore, Md.
**Dufur & Co., 311 N Howard, Baltimore, Md.**
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**HANKE IRON & WIRE WORKS,** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
**Hecla Iron Works. 118 N 11th, Brooklyn, N. Y.**
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
Herzog Iron Works (All Finishes), St. Paul, Minn.
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**LANDON, E. R. IRON & WIRE WORKS.** 166 N May, Chicago, Ill. (See adv. index, end of book)
Lasar Mfg. Co., St. Louis, Mo.
Lobel-Andrews Co., 531 W 55th, New York
Ludlow-Saylor Wire Co., St. Louis, Mo.
**MEYERS, FRED J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Milmine, H. B. & Co., Toledo, O.
**Morss & Whyte Co., 75 Cornhill, Boston, Mass.**
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
Rudger-Merle Co., San Francisco, Cal.
**SCHREIBER, L. & SONS CO., 8th & Eg**gleston av, Cincinnati, O., & 1133 B'way New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Sommerville Iron & Bronze Co., 5637-5649 Butler, Pittsburg, Pa.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Stidman & Co., Baltimore, Md.
**TAYLOR & DEAN, Penn av & 25th, Pitts**burg, Pa. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
Van Dorn Iron Works Co., Cleveland, O.
West Coast Wire & Iron Works, San Francisco, Cal.
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.
**WRIGHT WIRE CO. (All Metals &** Finishes), Worcester, Mass. (See adv. index & branch offices, end of book)

## Elevator Car Signals

(See Elevator Signals)

## 3223—Elevator Casings (Fireproof)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## Elevator Controllers

(See Controllers, Electric Elevator; also Elevator Safety Devices)

## Elevator Door Locking Device

(See Elevator Safety Locks)

## 3224—Elevator Door Openers & Closers

(See also Elevator Safety Devices)
Burdett-Rowntree Mfg. Co. (Automatic), 515 Laflin, Chicago, Ill.
**ELEVATOR SUPPLY & REPAIR CO.,** 34 Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. index, end of book)
**RICHARDS-WILCOX MFG. CO., 3d** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 3225—Elevator Enclosures

Acme Fancy Wire Works, Detroit, Mich.
Ajax Iron & Wire Co., 75 York, Brooklyn, N. Y.
Amos, Chas. & Co., Detroit, Mich.
**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
**ART BRASS & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Atlanta Wire & Iron Works Co., Atlanta, Ga.
Balderston, H. & Son, Baltimore, Md.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T., Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE WKS.,** 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co. (Brass & Bronze), Meriden, Conn.
**BROWN BROS. MFG. CO. (Iron &** Bronze), Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Brown-Ketcham Iron Works, Indianapolis, Ind.
Buffalo Wire Works Co., Buffalo, N. Y.
Burkhardt, John (Bronze), 622 W 55th, New York
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Chattanooga Iron & Wire Works, Chattanooga, Tenn.
Chesapeake Iron Works, Baltimore, Md.
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Cleveland Art Metal Co., Cleveland, O.
Columbia Iron & Wire Works Co., Canton, O.
**COLUMBUS WIRE & IRON WORKS** Co., Columbus, O. (See adv. index, end of book)
Crown Iron Works Co., Minneapolis, Minn.
**DAHLSTROM METALLIC DOOR CO.** (Steel), Jamestown, N. Y. (See adv. index & branch offices, end of book)
**DARBY, EDW. & SONS CO., 239 Arch.** Phila., Pa. (See adv. index, end of book)
Deterding, Chris., San Francisco, Cal.
Detroit Arch'l. Iron Works Co., Detroit, Mich
**DONOVAN WIRE & IRON CO., Chi**cago & W. & L. E. Ry., Toledo, O. (See adv. index, end of book)
Dow Wire & Iron Works, Louisville, Ky.
Dufur, Baggott & Co., Baltimore, Md.
Durfur & Co., 311 N Howard, Baltimore, Md.
**DUSING & HUNT, 386 Michigan,** Buffalo, N. Y. (See adv. index, end of book)
Eagle Iron Works (Inc.), 850 De Kalb av Brooklyn, N. Y
Edelmann, L., 319 E 94th, New York
**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis Minn. (See adv. index & branch offices, end of book)
**FOREST CITY STEEL & IRON CO.** 110th nr Detroit av., Cleveland O. (See adv index, end of book)
Gaumer, Jno. L. Co., 22d & Wood, Phila., Pa
Grossman Bros. & Rosenbaum, Willow av & 133d, New York
**HANKE IRON & WIRE WORKS** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 200 W Ontario, Chicago, Ill
Hecla Iron Works (Brass & Bronze), 108 N 11th, Brooklyn, N. Y.
Hennecke, C. Co., Milwaukee, Wis.
**HENRY-BONNARD BRONZE CO.** (Bronze & Iron), Mount Vernon, N. Y. (See adv. index, end of book)
Herzog Iron Works, St. Paul, Minn.
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
Hub Wire Cloth & Wire Works Co., 178 Washington,, Boston, Mass.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Johnson Eng. & Construction Co., Battle Creek, Mich.
Jones, L. E. & Co., Baltimore, Md.
K. C. Wire & Iron Works, Kansas City, Mo.
**LANDON, E. R. IRON & WIRE WORKS,** 166 N May, Chicago, Ill. (See adv. index, end of book)
Lasar Mfg. Co., St. Louis, Mo.
Lobel-Andews Co., 531 W 55th, New York
Ludlow-Saylor Wire Co., St. Louis, Mo.
McKinney, Jas. & Son, Albany, N. Y.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Midland Metal Co. (Inc.), 21st & Jefferson, Phila., Pa.
Milmine, H. B. & Co., Toledo, Ohio
**Morss & Whyte Co., 75 Cornhill, Boston, Mass.**
Mugler's Iron Works, 841 E 136th, New York
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
Perkins Mfg. Co., St. Paul, Minn.
Pioneer Iron & Wire Works Co., Denver, Colo.
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
Portland Wire & Iron Works, Portland, Ore.
Prince Iron Works, 553 W 33d, New York.
**REMPPIS, WM. F. CO., Reading,** Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City

WIRE WORK
IF IN NEED OF LOW-PRICED WIRE WORK MADE OF ROUND WIRE, DIAMOND MESH; EITHER FLAT OR ROUND WIRE, SQUARE MESH; ROUND IRON OR CHANNEL IRON FRAMES—WRITE
DUSING & HUNT
BUFFALO, N. Y.

**RIESECK, P., Allegheny av & Re**becca, N S, Pittsburg, Pa. (See adv. index, end of book)
Rudger-Merle Co., San Francisco, Cal.
St. Louis Wire & Iron Co., St. Louis, Mo.
**SCHREIBER, L. & SONS CO., 8th & Eg**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, ft of** Pine, Jersey City, N. J. (See adv. index, end of book)
Snow Wire Works Co., Rochester, N. Y.
Sommerville Iron & Bronze Co., 5637-5649 Butler, Pittsburg, Pa.
Southern Wire & Iron Works, Atlanta, Ga.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Standard Iron & Wire Works, Seattle, Wash.
Sterling Bronze Co., 107 W. 25th, New York
Stidman & Co., Baltimore, Md.
Syracuse Wire Works, Syracuse, N. Y.
**TAYLOR & DEAN, Penn av & 25th, Pitts**burg, Pa. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
Titchener, E. H. & Co., Binghamton, N. Y.
Tilk, Frank Ornamental Iron Works Co., Kansas City, Mo.
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
**UNION FOUNDRY WORKS, 38 S** Dearborn, Chicago, Ill. (See adv. index, end of book)

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Union Steel Screen Co. (Ltd.) Albion, Mich.
United Ornamental Iron Co., Security bldg, Chicago, Ill
Van Dorn Iron Works Co., Cleveland, O.
Voss, Fredk., 1852 Austin av, Chicago, Ill.
Wells Architectural Iron Co., 219-221 E 144th, New York
Western Architectural Iron Co., 408 W Indiana, Chicago, Ill.
White Ornamental Iron Works, Oakland, Cal.
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.
**WRIGHT WIRE CO. (All Metals & Finishes),** Worcester, Mass. (See adv. index & branch offices, end of book)

## Elevator Gates
(See Gates, Folding, Etc.)

## 3226—Elevator Gates (Automatic)
Altizer & Prince Co., 609 La Salle, Chicago, Ill.
Automatic Door & Gate Co. ("Peelle" Safety), 123 Liberty, New York
Bardsley Bros., 149 Baxter, New York
Beckwith Elevator Co., Boston, Mass.
Burdett-Rowntree Mfg. Co., 515 Laflin, Chicago, Ill., & 147 W. 26th, New York
California Artistic Metal & Wire Co., 539 Mission, San Francisco, Cal.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.

ELEVATOR GATES
If you want an elevator gate that is never out of order, write
DUSING & HUNT
BUFFALO, N. Y.

**DUSING & HUNT, 386 Michigan,** Buffalo, N. Y. (See adv. index, end of book)
Houser Elevator Co., Syracuse N. Y.
Kimball Bros. Co., Council Bluffs, Ia.
Knickerbocker Elevator Gate Co., 116 West, New York
Lagerquist, Gust. (& Half Automatic), 516 N 3d, Minneapolis, Minn
**MERRITT & CO., Front & Arch,** Camden, N. J. (See adv. index, end of book)
Milmine, H. B. & Co., Toledo, Ohio
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works ("Pitt-Bostwick"), 111 5th av, New York. (See adv. index, end of book)
Quincy Elevator Gate Co., Quincy, Ill.
**REEDY, H. J. CO. (Inc.) (Full Automatic),** 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Richmond Safety Gate Co., Richmond, Ind.
**SCHREIBER, L. & SONS CO., 8th & Eggleston av,** Cincinnati, O. (See adv. index & branch offices, end of book)
Security Elevator Safety Co., 126 W 18th, New York
Shields, J. H., Cincinnati, Ohio
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Stewart Iron Wks. ("Bostwick"), Covington, Ky.
Storm Mfg. Co., Newark, N. J.
**TAYLOR & DEAN, Penn av & 25th, Pittsburg,** Pa. (See adv. index, end of book)
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
Webster & Perks Tool Co. ("The Ideal"), Springfield, O.

## 3227—Elevator Gates & Guards (Folding)
(See also Gates, Folding)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works, 136 W 24th, New York. (See adv. index, end of book)

## 3228—Elevator Gates & Guards (Pitt, "Bostwick," Novelty & Composite Patents)
**PITT, WM. R. COMPOSITE IRON** Works, 136 W 24th, New York (See adv. adv. index, end of book)

## 3229— Elevator Governors
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

## 3230—Elevator Guides (Cold Compressed Steel)
**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)

## 3231—Elevator Mouldings (Ornamental Steel)
**BRAUN, J. G., 322 S Paulina, Chicago,** Ill., & 554 W 36th, New York. (See adv. index, end of book)

## 3232— Elevator Registers
Desper, H. A. Mfg. Co. ("Reliance"), Worcester, Mass.

## 3233— Elevator Repairs
(See also firms marked thus † under the head of Elevators, Freight & Passenger)

**ELEVATOR SUPPLY & REPAIR CO.,** 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

## Elevator Rope
(See Wire Rope & Cables; also Rope, Manila & Sisal)

## 3234—Elevator Safety Devices
(See also the Specific Article Required)

Altizer & Prince Co., 609 La Salle, Chicago, Ill.
Angell Elevator Lock Co. (Safety Lock & Controllers), 370 Atlantic av, Boston, Mass.
Burdett-Rowntree Mfg. Co., 515 Laflin, Chicago, Ill., & 147 W 26th, New York
Elevator Operating Controller Co. (Car Cannot Be Moved While Gate Is Open), 2 Rector, New York
Keystone Elevator Inspection & Repair Co., 1001 Chestnut, Phila., Pa.
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
Pratt, Chas. R. ("Pratt's"), 1123 B'way, New York
**REEDY, H. J. CO. (Inc.) (All Approved Designs),** 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Roth Elevator Safety Co., American bldg, Baltimore, Md.
Security Elevator Safety Co. ("Cruickshank's & "Security"), 126 W 18th, New York
Standard Elevator Interlock Co., West End bldg, Phila., Pa.
**UNION ELEVATOR & MACHINE CO.** "Union" Automatic for Opening & Closing Elevator Gates, Doors, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Victor Mfg. Co.. Newburyport, Mass.
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

## 3235—Elevator Safety Devices (Electric)
**CUTLER-HAMMER MFG. CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)

## Elevator Safety Gates
(See Elevator Gates, Automatic)

## 3236—Elevator Safety Locks
Angell Elevator Lock Co., Boston, Mass.
Burdett-Rowntree Mfg. Co., 515 Laflin, Chicago, Ill., & 147 W 26th, New York
Clernand & Co. (Freight), 64 Grand, New York
Elevator Operating Controller Co. ("L. L. L." Patents), 2 Rector, New York
**ELEVATOR SUPPLY & REPAIR CO.,** 76 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Rochester Automatic Elevator Door Co., 291 Mill, Rochester, N. Y.
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Standard Elevator Interlock Co., West End Trust bldg, Phila., Pa.
Stowell Mfg. & Foundry Co., S Milwaukee, Wis.
Universal Safety Elevator Locking Device Co., Baltimore, Md.
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

## 3237—Elevator Safety Stops
Hunter, James Machine Co., N Adams, Mass.
Miller, L. J., 1233 Harrison, Cincinnati, O.
Rochester Automatic Elevator Door Co., 291 Mill, Rochester, N. Y.
Security Elevator Safety Co. ("Security"), 126 W 18th, New York

## 3238—Elevator Sash Iron
**BRAUN, J. G., 322 S Paulina, Chicago,** Ill., & 554 W 36th, New York. (See adv. index, end of book)

## 3239—Elevator Self Starters (Electric)
**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC COMPANY,** Mansfield, O. (See adv. index, end of book)

## 3240— Elevator Siding
(See also Roofing & Siding, Iron & Steel)

**BERGER MFG. CO., THE, Main Office** & Works: Canton, O. (See adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. (See adv. index & branch offices, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

If You Are In Doubt
as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—
They Can Tell You

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## 3241— Elevator Signals

Burdett-Rowntree Mfg. Co., 515 Laflin, Chicago, Ill.
Elevator Signal Co., 90 West, New York
**ELEVATOR SUPPLY & REPAIR CO.** ("Armstrong" Eelectric), 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

ELECTRIC SIGNALS
FOR
PASSENGER ELEVATORS
ELEVATOR SUPPLY & REPAIR CO
105 W. 40th St. NEW YORK
561 W. Monroe St. CHICAGO
593 Market St., San Francisco, Cal.

Herzog Teleseme Co., 135 W 23d, New York
Holtzer-Cabot Electric Co., Brookline, Mass.

## 3242—Elevator Switches (Belt & Reversing)

**CUTLER-HAMMER MFG. CO. ("C. & H."),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)

## 3243—Elevator Thresholds (Illuminated)

Illuminated Elevator Threshold Co. ("Ricketts"), 408 Olive, St. Louis, Mo.

## 3244— Elevators (Ashes)

(See also Conveyors, Coal & Ash Handling)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**INSLEY MFG. CO. (Automatic** Dumping Bucket), Indianapolis, Ind. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY ("Link-Belt"** Telescoping for Building, Boiler Rooms, etc.), Hunting Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)

## 3245—Elevators (Automatic Safety)

**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
**REEDY, H. J. CO. (Inc.), 15 W 2d,** Cincinnati, O. (See adv. index, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y. (See adv. index & branch offices, end of book)

## 3246—Elevators (Barrel & Package)

(See also Conveyors, Various Kinds)
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO. (Curved Arm),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Faunt Le Roy Elevator Co., Baltimore, Md.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Automatic** Pick Up, etc.), Hunting Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**MATHEWS GRAVITY CARRIER CO.** Automatic), Merriam Park, St. Paul, Minn. (See adv. index, end of book)
Oram, Jno. S., Cleveland, O.
**PITTSBURG CONVEYING MACHINE**ry Co., Pittsburg, Pa. (See adv. index, end of book)
**REEDY, H. J. CO. (Inc.), 15 W. 2d,** Cincinnati, O. (See adv. index, end of book)
Strait, H. N. Mfg Co. (For Barrel or Cooperage), Kansas City, Mo.
Teal, Chas. A., 1361 Ridge av, Phila., Pa.
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 3247— Elevators (Belt)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y. (See index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3248—Elevators (Box Water)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY ("Link-Belt"** for Lifting Water), Hunting Park av, & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)

## 3249— Elevators (Brick)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**MATHEWS GRAVITY CARRIER CO.,** Merriam Park, St. Paul, Minn. (See adv. index, end of book)

## 3250— Elevators (Bucket)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chalmers & Williams (Continuous), Chicago Heights, Ill.
Dodge Mfg. Co., Mishawaka, Ind.
**JEFFREY MFG. CO. ("Jeffrey" for** All Classes of Work), Columbus, O. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Continuous** & Inclined Continuous), Hunting Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Manufacturers' Equipment Co., Dayton, O.
Nordyke & Marmon Co., Indianapolis, Ind.
**PITTSBURG CONVEYING MACHINE**ry Co., Pittsburg, Pa. (See adv. index, end of book)
Power & Mining Machinery Co., Cudahy, Wis.
Robins Conveying Belt Co., Passaic, N. J.
**SMITH, T. L. CO., The, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Stephens & Adamson Mfg. Co., Aurora, Ill.
Tamaqua Mfg. Co., Tamaqua, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## Elevators (Building Material)

(See Elevators, Hod; also Engines, Hoisting; also Hoists, Builders' Electric; also Hoists, Contractors' Material)

## 3251— Elevators (Carriage)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
Altizer & Prince Co., 609 La Salle, Chicago, Ill.
**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
Cohoes Iron Foundry & Machine Co., Cohoes N. Y.
Faunt Le Roy Elevator Co., Baltimore, Md.
Haughton Elevator & Machine Co., Toledo, O.
Hoffman, C. W. Co., 223 W 28th, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Keystone Elevator Inspection & Repair Co., 1011 Chestnut, Phila., Pa.
Kieckhefer, A. Elevator Co., 1926 St. Paul av, Milwaukee, Wis.
Lagerquist, Gust, 516 N 3d, Minneapolis, Minn.
Mason, Volney W. & Co., Providence, R. I.
Miller, Wm. A. Elevator Mfg. Co., 9th & Victor, St. Louis, Mo.
Murtaugh, Jas. Co. (Standard), 237 E 41st, New York
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices, end of book)
**REEDY, H. J. CO. (Inc.), 15 W 2d,** Cincinnati, O. (See adv. index, end of book)
Salem Elevator Works, Salem, Mass.
Sedgwick Machine Works, Poughkeepsie, N. Y.
Sidney Elevator Mfg. Co., Sidney, Ohio
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
Storm Mfg. Co., Newark, N. J.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

## Elevators (Coal)

(See Conveyors, Coal & Ash Handling, also Elevators, Traveling, Coal)

## 3252—Elevators (Combination, Hand & Belt Power)

**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
Grote Mfg. Co., Evansville, Ind.
Haughton Elevator & Machine Co., Toledo, O.
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices, end of book)
**REEDY, H. J. CO. (Inc.), 15 W 2d,** Cincinnati, O. (See adv. index, end of book)
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
Storm Mfg. Co., Newark, N. J.
**WARSAW ELEVATOR CO. Warsaw,** N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 3253— Elevators (Concrete)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**INSLEY MFG. CO. (Automatic** Dumping Bucket), Indianapolis, Ind. (See adv. index & branch offices, end of book)

## 3254—Elevators (Concrete Mixer)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 3254a—Elevators (Contractors' Combination)

**INSLEY MFG. CO. (Material Hoist** with Automatic Concrete Bucket), Indianapolis, Ind. (See adv. index & branch offices, end of book)

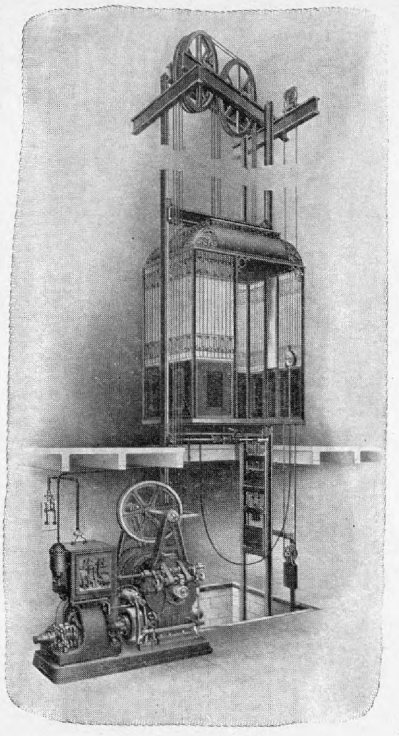
## Elevators (Cotton)

(See Elevators, Cotton, under Textile Machinery)

## 3255—Elevators (Electric)

(See also Elevators, Freight & Passenger)
Adt, Jno. B., 332 N Holliday, Baltimore, Md.
Altizer & Prince Co., 609 La Salle, Chicago, Ill.
**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
Bates, James Sons, Baltimore, Md.
Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.

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# ELECTRIC ELEVATORS

MADE BY THE HUNDREDS

**Which cannot be excelled for Economy, Safety, Easy Running and Durability**

## AUTOMATIC PUSH BUTTON SWITCH and MECHANICAL CONTROL

**High Grade Passenger and Freight**

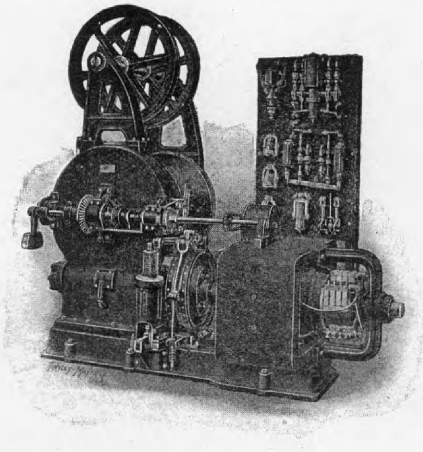
## ..ELEVATORS..

The

## WARNER ELEVATOR MFG. CO.

CINCINNATI, O.

**Branches: NEW YORK and BIRMINGHAM**



REPRESENTATIVES

Atlanta, Ga.....Electric Construction Co.
Birmingham, Ala.....Richards-Ingalls Iron Works Co.
Clarksville, Tenn.....W. M. Case
Dallas, Texas.....J. Peyton Hunter
Knoxville, Tenn.....Henry Bielfelt
Little Rock, Ark.....A. S. Gooch
Nashville, Tenn.....John Bouchard & Sons Co.
New Orleans, La....American Elevator & Electric Co.
Oklahoma City, Okla.....Frank Long
St. Louis, Mo....Am. Electric Machine & Elevator Co.

**PERFECTION IN**

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**CONSTRUCTION**

## ELECTRIC, HYDRAULIC, BELT, HAND

## "NOT IN THE TRUST"

**We Attach Every Safety Device Known To Our Equipment : : :**

## AMERICAN MACHINE CO.

INCORPORATED

**LOUISVILLE, KY.**


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# OTIS ELEVATORS

AN Elevator will relieve conjested floors in any manufacturing plant; make available space for additional machines, and double the capacity of the plant and its value.

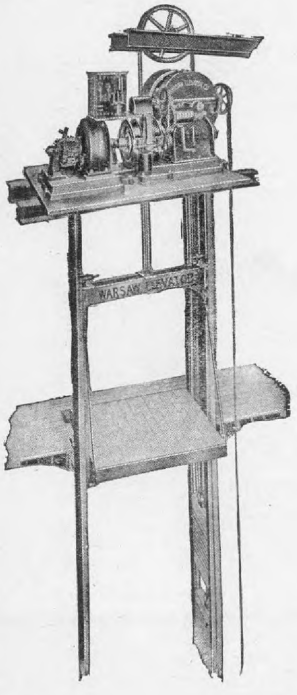
WE can furnish an Otis Hand-Power Elevator, having a capacity of 1500 pounds, for $75.00, or for $300.00 furnish an Otis Power Elevator to be connected to your present shafting.

WHY not consider this small investment, which would not only relieve your manufacturing floor, but double its capacity, avoid unnecessary handling of material and give full value to all your upper floors.

WE will gladly furnish any information desired regarding Elevator Equipment for any character of service. Department "H"

## Otis Elevator Company

**17 Battery Place, New York  Offices in All Principal Cities**




# FREIGHT ELEVATORS

**For MILLS and FACTORIES**

**Can be operated from line shaft, electric motor or engine.**

**We also specialize on all sizes of**

## HAND-POWER ELEVATORS

**For store and factory use, carriage and automobile repositories.**
**INVALID LIFTS and DUMB WAITERS**

**EASY TO ERECT  EASY TO OPERATE**

**We furnish complete prints and instructions for setting up.**

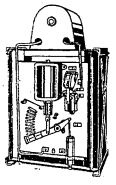
## WARSAW ELEVATOR CO.

NEW YORK, N. Y.—216 Fulton St.
PHILADELPHIA, PA.—929 Chestnut St.
BALTIMORE, MD.—111 Mercer St.
BUFFALO, N. Y.—90 Erie County Bank Bldg.
ROCHESTER, N. Y.—189-191 Mill St.

**WARSAW, N.Y., U.S.A.**

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Curran, Jas. H. Elevator Co., 114 W 2d, Cincinnati, O.
Faunt Le Roy Elevator Co., Baltimore, Md.
Franklin Machine Works, St. Paul, Minn.



Self-starters, speed controllers and limit switches for electric elevators. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

Grote Mfg. Co., Evansville, Ind.
Hammond, Jno. & Co., San Francisco, Cal.
Haughton Elevator & Machine Co., Toledo, O
Hoffman, Chas. W. Co., 223 W. 28th, New York
Houser Elevator Co., Syracuse, N. Y.
Kaestner & Hecht Co. (Inc.) (Alternating Current, Passenger & Freight), 440 S Jefferson, Chicago, Ill.
Keystone Elevator Inspection & Repair Co., 1011 Chestnut, Phila., Pa.
Kieckhefer, A. Elevator Co., 1026-1104 St. Paul av, Milwaukee, Wis.
Kimball Bros. Co., Council Bluffs, Ia.
Lagerquist, Gust (Direct & Belted), 516 N 3d, Minneapolis, Minn.
Marshall Bros., Pittsburg, Pa.
Miller, Wm. A. Elevator Mfg. Co., St. Louis, Mo.
National Elevator Co., 24 Stone, New York
National Elevator & Machine Co., Honesdale, Pa.
**NORTHERN ENGINEERING WORKS**, (Freight), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**OHIO ELEVATOR & MACHINE CO.**, Columbus, O. (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices. Portland Co., Portland, Me. end of book)
**REEDY, H. J. CO. (Inc.) (Alternating** & Direct Current Machines), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Roberts, Jas. H. Elevator Co., 430 W B'way, New York
See, A. B., Electric Elevator Co., 220 B'way,
Storm Mfg. Co., Newark, N. J. New York
**UNION ELEVATOR & MACHINE CO.**, 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Van Emon Elevator Co., San Francisco, Cal.
**WARNER ELEVATOR MFG. CO.**, Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw**, N. Y., & Erie Co. Bank bldg. Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 3256—Elevators (Electric Sidewalk)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
Altizer & Prince Co., 609 La Salle, Chicago, Ill.
Curran, Jas. H. Elevator Co., Cincinnati, O.
Eastern Machinery Co., New Haven, Conn.
Faunt Le Roy Elevator Co., Baltimore, Md.
Haughton Elevator & Machine Co., Toledo, O.
Hoffman, Chas. W. Co., 223 W 28th, New York
Keystone Elevator Inspection & Repair Co., 1011 Chestnut, Phila., Pa.
**OHIO ELEVATOR & MACHINE CO.**, Columbus, O. (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices. Portland Co., Portland, Me. end of book)
**REEDY, H. J. CO. (Inc.), 15 W. 2d,** Cincinnati, O. (See adv. index, end of book)
Storm Mfg. Co., Newark, N. J.
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 3257—Elevators (Farm, Portable)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Children's, E. Sons Mfg. Co., Council Bluffs, Iowa
Engel, J. A. & Co., Peoria, Ill.
Hiawatha Mfg. Co., Hiawatha, Kan.
Portable Elevator Mfg. Co., Bloomington, Ill.
Schroeder Bros., Minier, Ill.
Warner Elevator Mfg. Co., Warner, Ill.
Wenzelmann Mfg. Co. (Elevators & Wagon Dumps for Handling Grain), Galesburg, Ill.

## 3258—Elevators for Crushing Plants

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**SMITH, T. L. CO., THE, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 3259—Elevators for Peas

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 3260— Elevators (Foundry)

Adt, Jno. B., 332 N Holliday, Baltimore, Md.
Altizer & Prince Co., 609 La Salle, Chicago, Ill.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Eastern Machinery Co., New Haven, Conn.
Faunt Le Roy Elevator Co., Baltimore, Md.
Haughton Elevator & Machine Co., Toledo, O.
**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS**, 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**OHIO ELEVATOR & MACHINE CO.**, Columbus, O. (See adv. index, end of book)
Q. M. S. Co., Plainfield, N. J.
**REEDY, H. J. CO. (Inc.), 15 W 2d,** Cincinnati, O. (See adv. index, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie Co. Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY & EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3261—Elevators (Freight & Passenger)

(NOTE—Firms Designated by Dagger (†) do General Repair Work Only. (Star (*) Indicates Passenger Elevators)
(Under this Heading see Sub-classifications)

### ALABAMA.

BIRMINGHAM—***OTIS ELEVATOR CO.** (See adv. index, end of book)
**WARNER ELEVATOR MFG. CO.** (Electric, Hydraulic & Hand & Belt Power, Passenger & Freight). (See adv. index, end of book)

### CALIFORNIA.

LOS ANGELES—Baker Iron Works, 946 Buena Vista
Fulton Engine W'ks, N Main c Alhambra av
Llewellyn Iron Works, Los Angeles, Cal.
†Machinery & Electrical Co., 351 N Main
***OTIS ELEVATOR CO.** (See adv. index, end of book)
Union Iron Works, 406 E 1st
SAN FRANCISCO—†Enterprise Electric Works, 120 8th
†Enterprise Electric Works, 120 8th
Holman, Wm. L. & Co., 18th & Indiana
***OTIS ELEVATOR CO., Stockton** & N Point. (See adv. index, end of book)
Van Emon Elevator Co., 111 New Mtgy.

### COLORADO.

DENVER—Nock & Garside, 1844 Wazee
***OTIS ELEVATOR CO., 1690-1611** Glenarm (See adv. index, end of book)

### CONNECTICUT.

HARTFORD—†Rice & Baldwin Electric Co.
Springfield Elevator & Pump Co.
NEW HAVEN—Eastern Machinery Co., 246 Ashman
MacKenzie, George M., Water c East

### DELAWARE.

WILMINGTON—Green Elevator Co.

### ILLINOIS.

CHICAGO—Altizer & Prince Co., 609 La Salle
Economy Engineering Co., 415 S Washtenaw av
**†ELEVATOR SUPPLY & REPAIR** Co., (Signalling Apparatus, etc.), 76 W Monroe. (See adv. index, end of book)
Gallaher & Speck, 184 E Congress
*Kaestner & Hecht Co. (Inc.) (Steam & Hydraulic), 440 S Jefferson
†Mitchell, C. H. & Co., 714 W Quincy
***OTIS ELEVATOR CO., 9 Jack**son boul. (See adv. index, end of book)
*Reedy, J. W. Elevator Mfg. Co. (Hydraulic, Electric, Belt, Steam, etc.), 212 W Illinois, Chicago, Ill.
†Reliance Elevator Co., 312 W Ontario
**UNION ELEVATOR & MACHINE** Co., 215 W Ontario. (See adv. index, end of book)
DECATUR—Van Camp, A. (Power & Hand
QUINCY—Hollister-Whitney Co. Freight)

### INDIANA.

EVANSVILLE—*Grote, F. Mfg. Co.
Mesker, Geo. L. & Co. (Power)
INDIANAPOLIS—†Carman & Fryer, 418 E Market
***OTIS ELEVATOR CO., 101 Ken**tucky av. (See adv. index, end of book)
†Reedy, D. V. & Co., 208 S Penn

### IOWA.

COUNCIL BLUFFS—Kimball Bros. Co. (Electric, Hand & Belt Power)
DES MOINES—†Globe Machinery & Supply Co.
Iowa Machinery & Supply Co.
LE MARS—Pech, Gustave Foundry & Mfg. Co.

### KENTUCKY.

LOUISVILLE — ***AMERICAN MACHINE** Co. (Electric, Hydraulic, Belt & Hand.) (See adv. index, end of book)

### LOUISIANA.

NEW ORLEANS—†American Elevator & Electric Co., 520 Camp
†Commercial Electric Co., 710 Union
***OTIS ELEVATOR CO., Godchaux bldg.** (See adv. index, end of book)

### MAINE.

PORTLAND—*Portland Co. (Electric, Hydraulic, Plunger & Belted)

### MARYLAND.

BALTIMORE—Adt, Jno. B. (Steam), 332 N Holliday
*Bates, James Sons (Hand, Hydraulic, Steam, Electric, etc.), Pratt c President
*Faunt Le Roy Elevator Co. (Hydraulic, Electric & Belt), 8th & Pratt
**†ELLICOTT MACHINE CO., Severn &** Flynn & Emrich Co., Balto, Md. Brush
***OTIS ELEVATOR CO., Equitable bldg.** (See adv. index, end of book)
**WARSAW ELEVATOR CO., Main** Office & Works, Warsaw, N. Y. (See adv. index, end of book)
Zies, Chas. & Sons, 316 S Fremont

### MASSACHUSETTS.

BOSTON—†Automatic Elevator Co., 19 Pearl
Beckwith Elevator Co., 123 Pearl
Brewer, Elias & Co., 19 Bowker
†Currie, J. H.
Kimball, C. E. & Son, 151 Pearl
McLauthlin, Geo. T. Co., 120 Fulton
*Moore & Wyman Elevator & Machine Works, Granite c Richards
**OTIS ELEVATOR CO., 53 State.** (See adv. index, end of book)
†Payne, F. S., 295 Franklin
†Porter, W. H., 15 Hartford
*Portland Co. (of Portland, Me.), 67 Milk
**Seelye Mfg. Co.** (Freight), 118 South
†Tubman, Wm., 20 Central
FLORENCE—Norwood Engineering Co. (Belt Power Freight)
LYNN—Embree, Wm. F. & Co., 435 Union
SALEM—*Salem Elevator Works (Electric)
**SPRINGFIELD—Bay State Elevator Co. (Hydraulic, Plunger, Electric & Belt)**
**OTIS ELEVATOR CO. (See adv. index, end of book)**
**Springfield Iron Works, 108 Taylor**

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WORCESTER — **OTIS ELEVATOR CO.** (See adv. index, end of book)
Standard Plunger Elevator Co.

## MICHIGAN.

DETROIT—†Fox, Wm. Co., 893 Wabash av
**NORTHERN ENGINEERING WK'S,** Chene & Atwater. (See adv. index, end of book)
***OTIS ELEVATOR CO., Penobscot bldg.** (See adv. index, end of book)

## MINNESOTA.

MINNEAPOLIS—Craig, W. H. & Co., 415 6th
*Lagerquist, Gust, 516 N 3d av, S.
ST. PAUL—*Franklin Machine Works
***Lee & Hoff Mfg. Co., 81 E Fillmore av**

## MISSOURI.

KANSAS CITY—Kansas City Elevator Mfg. Co., 115 W 19th
***OTIS ELEVATOR CO.** (See adv. index, end of book)
Strait, H. N. Mfg. Co. (Freight)
ST. LOUIS—American Electric Machinery & Elevator Co., 1106 Cass av
Ellison, W. & Sons Mfg. Co., 1020 N 6th
Gerahty Bros. Elevator Co., 416 S 6th
Miller, Wm. A. Elevator Mfg. Co., 9th & Victor
**OTIS ELEVATOR CO., Security** bldg. (See adv. index, end of book)
†Ramsay, Wm., 418 N 3d
†Williams Const. & Repair Co., 206 Olive

## NEBRASKA.

OMAHA — ***OTIS ELEVATOR CO.** (See adv. index, end of book)

## NEW JERSEY.

NEWARK—***OTIS ELEVATOR CO.** (See adv. index, end of book)
Skinner & Leary, 13 Railroad pl
Storm Mfg. Co. (Hand & Belt Power, etc.)
Webber, Geo. A., Poinier c Penn av
Wright, Lysander, Jr., 9 Alling
TRENTON—Morse Elevator & Machine Co.

## NEW YORK.

BUFFALO—†Buffalo Engineering Co., Erie Co.
***OTIS ELEVATOR CO., Chicago &** Granger. (See adv. index, end of book)
†Queen City Engineering Co., 49 Illinois
***WARSAW ELEVATOR CO., Erie** Co. Bank bldg. (See adv. index, end of book)
COHOES—Cohoes Iron Foundry & Machine Co. (Freight)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Rodgers, R. M. & Co., 173 Washington av

### Boroughs of Manhattan & Bronx.

NEW YORK—†Aetna Elevator Co., 127 Reade
†American Elevator Co., 113 Cedar
Bethlehem Foundry & Machine Co. (Spur Gear & Screw Winding Freight Only), 149 Broadway
Burwak Elevator Co., 216 Fulton
†Clernand & Co., 64 Grand
†Couch, Sam'l & Sons, 214 Centre
Dowdall, Chas. E., 152 W B'way
**ELEVATOR SUPPLY & REPAIR** Co. (Signalling Apparatus Installed), 136 Liberty. (See adv. index, end of book)
†Graham Bros. & Co., 662 Hudson
*Hoffman, Chas. W. Co. (Electric & Belt Power), 223 W. 28th
†Kane, M. J. & Co., 136 Liberty
Kenny Electrical Mfg. Co., 90 West
†Meagher, T. H., 103 Walker
Murtaugh, Jas. Co., 237 E 41st
National Elevator Co., 24 Stone
†New York Elevator Co., 114 Liberty
***OTIS ELEVATOR CO., 17 Battery pl.** (See adv. index, end of book)
†Pearson, McGlynn & Co., 10 Reade
*Reedy Elevator Co., 202 9th av
*Roberts, J. H. Elevator Co., 430 W B'way
*See, A. B. Electric Elevator Co., 220 B'way
*Shaper, F. D., 153 Franklin
Sommerville, John 156 W 30th
Standard Plunger Elevator Co., 115 B'way
***WARNER ELEVATOR MFG. CO.** (Electric, Hydraulic & Hand & Belt Power, Passenger & Freight), 1183 B'way. (See adv. index, end of book)
**WARSAW ELEVATOR CO., 216** Fulton. (See adv. index, end of book)
Welsh Machine Works, 276 & 277 West, New York

### (End of New York City)

OSSINING—Kipp Engine Co. (Hydraulic)
ROCHESTER — ***OTIS ELEVATOR CO.** 198 Commercial (See adv. index, end of book)
***WARSAW ELEVATOR CO., 189** Mill. (See adv. index, end of book)
SYRACUSE—Houser Elevator Co., 314 E Water
UTICA—***OTIS ELEVATOR CO.** (See adv. index, end of book)
WARSAW—***WARSAW ELEVATOR** Co. (See adv. index, end of book)
YONKERS—***OTIS ELEVATOR CO.** (See adv. index, end of book)

## NORTH CAROLINA.

CHARLOTTE—Moffatt Machinery Mfg. Co.
Park Mfg. Co. (Belt Power)

## OHIO.

CINCINNATI—Cincinnati Elevator Works, Quigley, M. J. (Propr.), 216 W 2d
*Curran, Jas. H. Elevator Co., 114 W 2d
Lane & Bodley Co., Paddock rd & Ross av
National Elevator Co., 124 Longworth
***REEDY, H. J. CO. (Electric, Hydraulic, Plunger, Steam, Hand, etc.),** 15 W 2d. (See adv. index, end of book)
Troup, E. K., 323 E 3d
***WARNER ELEVATOR MFG. CO.** (Electric, Hydraulic & Hand & Belt Power, Passenger & Freight), Spring Grove av, Alfred & Valley. (See adv. index, end of book)
CLEVELAND — Edmonds Elevator Co., 519 Champlain av, N W
COLUMBUS—†Beck Electrical Repair Co., 7 S
†Eaton Machine Works Levee


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DAYTON—Gem City Elevator Works, 612 W Wash'n
SANDUSKY—Klotz Machine Co. (Hand &
SIDNEY—Sidney Elevator Mfg. Co. Steam)
TOLEDO—*Haughton Elevator & Machine Co. (Steam, Hydraulic, Belt, etc.), 124 S
*Universal Machine Co. Huron

## OKLAHOMA.

OKLAHOMA CITY—***OTIS ELEVATOR** Co. (See adv. index, end of book)

## OREGON.

PORTLAND—†Portland Elevator Co.
**Portland Iron Works, 495 Northrop**
**Willamette Iron & Steel Works, 4th c Glisan**

## PENNSYLVANIA.

COATESVILLE—Ridgway, Craig & Son Co. (Heavy Freight)
HONESDALE—*National Elevator & Machine Co. (Electric, Hydraulic, Belt & Hand
LANCASTER—†Welchans, A. C. Power)
PHILADELPHIA—Albro-Clem Elevator Co., 7th & Glenwood av
Energy Elevator Co., 214 New
Independence Elevator Co., 710 Cherry
*Keystone Elevator Inspection & Repair Co., 1011 Chestnut
McIntire, Walter C. & Co., 12 N 5th
O'Neill Elevator Co., 628 Cherry
***OTIS ELEVATOR CO., 12th & Sansom.** (See adv. index, end of book)
Plunger Elevator Co., 12th & Samson
*See, A. B. Electric Elevator Co., Land Title bldg
Standard Plunger Elevator Co., 227 N 23
*Stokes & Parrish (Dep't of Otis Elevator Co.), 12th & Samson
*Supplee Elevator Co., 3207 Spring Garden
**WARSAW ELEVATOR CO., 929** Chestnut. (See adv. index, end of book)
PITTSBURG—†Elevator Construction Co., 327 Second av
*Marshall Bros., S 21st & Mary
Seeler Elevator Co., 618 Wylie av
READING—***SPEIDEL, JOHN G. (Belt,** Hand & Electric Power). (See adv. index, end of book)

## RHODE ISLAND.

PROVIDENCE—†Anderson & Osterman Electrical Repair Co., 155 Orange
†Dingley, B. F. & Co., 77 Page
McCarroll, Sam'l H. (Plunger), 65 Jackson
Mason, Volney W. & Co.
*Providence Elevator Works, 58 Point
Rhode Island Elev. & Machine Co., 35 Cliff
†Swift, J. T. Elevator Co., 95 Pine ford

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CHATTANOOGA—**WARNER ELEVATOR** Mfg. Co., 816 Georgia. (See adv. index, end of book)
Sybilla, Frank Elevator Co.
MEMPHIS—Chickasaw Iron Works, 166 2d

## TEXAS.

DALLAS—***OTIS ELEVATOR CO.** (See adv. index, end of book)
HOUSTON—Borden Electric & Machinery Co.
Hayes, D. J. Co.
***OTIS ELEVATOR CO. (See adv.** index, end of book)
Smith-Howard Co.

## UTAH.

SALT LAKE CITY—Trent Engineering & Machinery Co.

## VIRGINIA.

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NORFOLK—***OTIS ELEVATOR CO.** (See adv. index, end of book)
RICHMOND—***OTIS ELEVATOR CO.** (See adv. index, end of book)
Shelton, A. V. & Co.

## WASHINGTON.

SEATTLE—†Biegert, J. C. Machine Works, 517 1st av, S
Erickson-Wyman Co., 1001 1st av, S
***OTIS ELEVATOR CO. (See adv. index, end of book)**
SPOKANE—National Iron Works
***OTIS ELEVATOR CO. (See adv.** index, end of book)
*Pacific Iron Works
TACOMA—Pacific Coast Elevator & Machine Co.

## WISCONSIN.

MILWAUKEE—†Heller, S., 290 5th av
Kieckhefer, A. Elevator Co. (Electric, Hydraulic, Belt, Plunger, etc.), 1026-1104 St. Paul av
***OTIS ELEVATOR CO., 144 W** Water. (See adv. index, end of book)
†Rosenberg, F. Elevator & Supply Co., 149 Clinton

## 3262— Elevators (Gravity)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Lowerator Co. (Inc.), 20 Broad, New York
**MATHEWS GRAVITY CARRIER CO.** (Automatic, for Barrels, Boxes, etc.), Merriam Park. St. Paul, Minn. (See adv. index, end of book)

## 3263— Elevators (Hand)

(See also Dumb Waiters)

Altizer & Prince Co., 609 La Salle, Chicago, Ill.
**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
Bates', Jas. Sons, Baltimore, Md.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.
Faunt Le Roy Elevator Co., Baltimore, Md.
**Haughton Elevator & Machine Co., Toledo, O.**
**Hoffman, Chas. W. Co., 223 W 28th, New York**
Keystone Elevator Inspection & Repair Co., 1011 Chestnut, Phila., Pa.
Kieckhefer, A. Elevator Co., 1026-1104 St. Paul av, Milwaukee, Wis.
**Lagerquist, Gust, 516 N 3d, Minneapolis, Minn.**
Marshall Bros., Pittsburg, Pa.
**Mesker, Geo. L. & Co., Evansville, Ind.**
Mesker & Bro., St. Louis, Mo.
**Miller, Wm. A. Elevator Mfg. Co., 9th & Victor, St. Louis, Mo.**
Murtaugh, Jas. Co., 237 E 41st
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices end of book)
**REEDY, H. J. CO. (Inc.), 15 W 2d,** Cincinnati, O. (See adv. index, end of
Salem Elevator Works, Salem, Mass. book)
Sedgwick Machine Works, Poughkeepsie, N. Y.
Sidney Elevator Mfg. Co., Sidney, O.
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
Storm Mfg. Co., Newark, N. J.
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw,** New York, & Erie Co., Bank Bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 3264— Elevators (Hay)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 3265— Elevators (Hod)

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Byers, Jno. F. Machine Co. (Double Platform), Ravenna, O.
Buckley, Jas. J. (For Building Material), 310 W 65th, New York
Carlson Hoisting Co., 293 Douglass, Brooklyn, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)
Edelmeyer & Morgan Hod Elevator Co. (For Building Materials), 333 W 49th, New York
**FLORY, S. MFG. CO., Bangor, Pa.,** (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kinnears' Hod Elevating Co., ft W 63d, New York
Langjahr, Chas. (For Building Materials), 2220 Van Buren, Chicago, Ill.
**NATIONAL HOISTING ENGINE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)
Pelham Operating Co. (For Building Materials), 410 W 26th, New York
Simpson Hod Elevating Co., Newark, N. J.
Smith, Wm. A. Elevator Co., 282 E 141st, New York
Stanley Hoisting Co., 620 W 25th, New York
Stimson Elevator Co. (For Building Materials), 1945 Walnut, Chicago, Ill
Thomas Elevator Co., 20 S Hoyne, Chicago, Ill.
**UNION ELEVATOR & MACHINE CO.,** 215 W. Ontario, Chicago, Ill. (See adv. index, end of book)
White Hod Elevator Co., Southern Blvd & 143d, New York

## 3266— Elevators (Hydraulic)

(See also Elevators, Freight & Passenger)

**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
Bates', James Sons, Baltimore, Md.
**Curren, Jas. H., Elevator Co., 114 W 2d, Cincinnati, O.**
Faunt Le Roy Elevator Co., Baltimore, Md.
Hammond, J. & Co., San Francisco, Cal.
**Haughton Elevator & Machine Co., Toledo, O.**
Keystone Elevator Inspection & Repair Co., 1011 Chestnut, Phila., Pa.
Kieckhefer, A. Elevator Co., 1026-1104 St. Paul av, Milwaukee, Wis.
**Marshall Bros., 21st & Mary, Pittsburg, Pa.**
Miller, Wm. A. Elevator Co., 9th cor. Victor, St. Louis, Mo.
**OHIO ELEVATOR & MACHINE CO.,** Columbus, O. (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)
Portland Co., Portland, Me.
**REEDY, H. J. CO. (Inc.) (For Power,** Safety & Speed), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Standard Plunger Elevator Co., 115 B'way, New York
Van Emon Elevator Co., San Francisco, Cal.
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw, N. Y.** (See adv. index & branch offices, end of book)

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**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)

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(See Stairways, Moving)

## Elevators (Invalid, Hand & Belt Power)

(See Elevators, Hand)

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**TAYLOR, JAS. L. MFG. CO. (For** Stucco & Cement Workers, Painters, etc.), Poughkeepsie, N. Y. (See adv. index, end of book)

## Elevators Link Belt

(See Conveyors, Link Belt)

## 3269— Elevators (Marine)

**MEAD-MORRISON MFG. CO., Cambridge** (Boston), Mass. (See adv. index & branch offices, end of book)

## 3270—Elevators (Pig Iron)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

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**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa.** (See adv. index, end of book)

## 3272—Elevators (Plunger)

(See also Elevators, Freight & Passenger)

**Faunt Le Roy Elevator Co., Baltimore, Md.**
**Haughton Elevator & Machine Co., Toledo, O.**
Keystone Elevator Co., 1011 Chestnut, Phila., Pa.
Kieckhefer, A. Elevator Co., 1026-1104 St. Paul av, Milwaukee, Wis.
**OHIO ELEVATOR & MACHINE CO., Columbus, O.** (See adv. index, end of book)
Portland Co., Portland, Me.
**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)
**REEDY, H. J. CO. (Passenger & Freight),** 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Standard Plunger Elevator Co., 115 B'way, New York
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 3273—Elevators (Pneumatic)

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
Miles Pneumatic Tube Co., 1123 B'way, New York
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Q. M. S. Co., Plainfield, N. J.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3275—Elevators (Quicksilver)

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Chalmers & Williams, Chicago Heights, Ill.
Power & Mining Machinery Co., Cudahy, Wis.

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(See also Tiering Machines)

**New York Revolving Portable Elevator Co.,** Jersey City, N. J.

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(See Conveyors, Gravel & Sand)

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Altizer & Prince, 51 Michigan, Chicago, Ill.
Bowes, John J., 227 W 29th, New York
Curran, Jas. H. Elevator Co., Cincinnati, O.
Dowdall, Chas. E., 152 W B'way, New York
Eastern Machinery Co., New Haven, Conn.
Edmonds Elevator Co., Cleveland, O.
Faunt Le Roy Elevator Co., Baltimore, Md.
Grossman Bros. & Rosenbaum, Willow & 131st, New York
Haughton Elevator & Machine Co., Toledo, O.
Hoffman, Chas. W. Co., 223 W 28th, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Keystone Elevator Inspection & Repair Co., 1011 Chestnut, Phila., Pa.
Kieckhefer, A. Elevator Co., 1026-1104 St. Paul av, Milwaukee, Wis.
Kohlmetz, Chas. E. & H. L., Rochester, N. Y.
McLaughlin, Geo. T. Co., Boston, Mass.
Marshall Bros., Pittsburg, Pa.
Murtaugh, Jas. Co., 237 E 41st, New York
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**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices, end of book)
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
**REEDY, H. J. CO. (Inc.) (Electric,** Hydraulic & Hand Power), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Sedgwick Machine Works, Poughkeepsie, N. Y.
Sidney Elevator Mfg. Co., Sidney, Ohio
Sommerville, John, 156 W 30th, New York
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
Storm Mfg. Co., Newark, N. J.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
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## 3278— Elevators (Stone)

(See also Conveyors, Rock & Ore)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

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## 3280—Elevators (Traveling, Coal)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Heyl & Patterson, Pittsburg, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie Co. Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 3281—Elevators (Water, for Mine & Quarry)

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**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
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**WELLER MFG. CO., 853 E North** av, Chicago, Ill. (See adv. index, end of book)

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**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

## 3283— Eliminators

(See also Oil & Grease Extractors)

Hoppes Mfg. Co., Springfield, O.
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Robertson, Jas. L. & Son (Inc.) ("Hine's"), 78 Murray, New York

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(See Sand Paper Manufacturers)

## Emery Wheel Stands & Arbors

(See Grinders, Emery)

## 3284—Emery Wheels (Vulcanized Rubber)

Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.
Manhattan Rubber Mfg. Co., 18 Vesey, New York
New York Belting & Packing Co., 91 Chambers, New York

## 3285—Emery & Corundum Mfrs.

Abrasive Mining & Mfg. Co. (Miners & Mfrs., Scimitar, Sultan Emery, Turkish Emery, Naxos Emery, Corundum). Plymouth, Ind., & Chester, Mass.
Adamite Emery & Corundum Co., Boston, Mass.
Carborundum Co., Niagara Falls, N. Y.
Chester Emery Mills, Chester, Mass.
Dayton Grinding Wheel Co., Dayton, O.
Goldschmidt Thermit Co. ("Corubin", A New Abrasive Material), 90 West, New York
Hamilton Emery & Corundum Co., Chester, Mass.
Jackson Mills Emery Co. (Scimitar, Kulick Emery, Turkish Emery, Naxos Emery & American Emery), Easton, Pa.
Keystone Emery Mills (Turkish), Frankfort, Phila., Pa.
Levant Emery Co. (Selling Agents), Boston, Massasoit Co., Chester, Mass. Mass.
Oriental Emery Co., New Haven, Conn.
**SCHULE, F. H. CO., 114-118 Liberty, New York.** (See adv. index, end of book)
**STILES, H. A. & CO. ("Ottman** Turkish Brand" Emery & Greek Corundum), 161 High, Boston, Mass. (See adv. index, end of book)
Superior Corundum Wheel Co., Waltham, Mass.
Washington Mills Emery Mfg. Co. (Turkish Emery Only), North Grafton, Mass.

## 3286—Emery & Corundum Wheel Mfrs.

Abrasive Material Co., S 72d & Upland, Philadelphia, Pa.
Adams Co. (Emery, Cushing Bearing), Dubuque, Iowa
American Emery Wheel W'ks, Providence, R. I.
Bay State Emery Wheel Co., Worcester, Mass.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
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Commercial Corundum & Emery Wheel Co., 922 W Ohio, Chicago, Ill.
Cortland Corundum Wheel Co., Cortland, N. Y.
Crescent Emery-Corundum Wheel Co., Indianapolis, Ind.
Detroit Emery Wheel Co., Detroit, Mich.
Eagle Emery & Corundum Wheel Co., 715 S Robey, Chicago, Ill.
Electric Emery Wheel Co., Newark, N. J.
Gold, Walter C. ("The Keystone"), Phila., Pa.
Hamden Corundum Wheel Co., Brightwood, Springfield, Mass.
Keystone Emery Mills, 4325 Paul, Phila., Pa.
Monarch Grinding Wheel Co. ("Monarch"), Camden, N. J.
Northampton Emery Wheel Co., Leeds, Mass.
Norton Company (Alundum), Worcester, Mass.
Peninsular Emery Wheel Co. (also Adamite Abrasive Wheels), Detroit, Mich.
Pike Mfg. Co., Pike Station, N. H.
Pittsburg Emery Wheel Co., Pittsburg, Pa.
**ROGERS, H. A. CO., 19 John, New** York. (See adv. index, end of book)
Safety Emery Wheel Co., Springfield, O.
Springfield Mfg. Co., Bridgeport, Conn.
Star Corundum Wheel Co., Detroit, Mich.
Sterling Emery Wheel Mfg. Co. (Adamite Wheel Also), Tiffin, O.
**STILES, H. A. & CO., 161 High,** Boston, Mass. (See adv. index, end of book)
Superior Corundum Wheel Co., Waltham, Mass.
Tanite Co., Stroudsburg, Pa.
Vitrified Wheel Co., Westfield, Mass.
Waltham Emery Wheel Co. ("Richardson"), Waltham, Mass.

## 3286a—Employment Agency (Engineers, Draftsmen & Technical Men Only)

**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)

## 3287— Emulsifiers

Stuart & Peterson Co., Burlington, N. J.

## 3288—Enameled Ware Mfrs.

American Specialty Stamping Co., Johnstown, Pa.
Andover Stamping Co., Andover, N. Y.
Baltimore Stamping & Enameling Co., 115 E Hanover, Baltimore, Md.
Bellaire Enamel Co., Bellaire, Ohio
Belmont Stamping & Enameling Co., New Phila., O.
Canton Stamping & Enameling Co. (French Grey), Canton, O.
Central Stamping Co., 174 Fulton, New York
Cleveland Stamping & Tool Co. ("Lava", "Volcanic"), Cleveland, O.
Columbian Enameling & Stamping Co. ("Torquoise", "Onyx"), Terre Haute, Ind.
Coonley Mfg. Co. ("Roco"), Clyde, Ill.
Dunlap, Jhn Co. ("Monogram", "Blue-Stone", "Janet"), Pittsburg, Pa.
Enterprise Enamel Co., Bellaire, O.
Fletcher Enamel Co., Anderson, Ind.
Geuder, Paeschke & Frey Co. (Also Galvanized, Japanned & Tinned), Milwaukee, Wis.
Lafayette Stamping & Enameling Co., West Lafayette, O.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk"), Canandiagua, N. Y.
National Enameling & Stamping Co., White & B'way, New York
New Castle Stamping Co., New Castle, Pa.
New England Enameling Co. ("Ideal"), Middletown, Conn.
Novelty Stamping Co., Bellaire, O.
Porcelain Enameling Ass'n of America ("Polar-Brand"), Sheboygan, Wis.
Reed Mfg. Co., Newark, N. Y.
Republic Metalware Co., Buffalo, N. Y.
Republic Stamping & Enameling Co. (French Mottled Ware), Canton, O.
Strong-Batterle Mfg. Co. ("Everglade," "Concord"), Bellaire, O.
U. S. Stamping Co., Moundsville, W. Va.
Vollrath, J. J. Mfg. Co. ("Vollrath" Enameled Steel & Cast Iron Wares), Sheboygan, Wis.

## 3289— Enamelers

(See also Glass Enamelers)

American Enamel Co. (Of Wood, Metal, etc.), Providence, R. I.
Baltimore Enamel & Novelty Co. (Metal), Allen & Clement, Baltimore, Md.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Cellu Enamel Co., Chester, Pa.
Dick, D. D. & Sons, 519 Cherry, Phila., Pa.
Estes, E. B. & Sons (Fancy & Plain Wood), 72 Warren, New York
Gender, Paeschke & Frey Co. (Porcelain), Milwaukee, Wis.
Greenpoint Enameling Works, 300 Greenpoint av, Brooklyn, N. Y.
Humphreys Mfg. Co., Mansfield, O.
Michigan Enameling Works (Porcelain), Kalamazoo, Mich.
Narragansett Machine Co. (Wood & Metal), Providence, R. I.
Novelty Turning Co. (Wood), Norway, Me.
S. & I. Co., Springfield, Mass.

## 3290— Enamels

Acme White Lead & Color Works, Detroit, Mich.
Adams & Elting Co., 223 W Wash'n, Chicago, Ill.
American Bitumastic Enamel Co. (Bitumastic), 322 S Delaware av, Phila., Pa.
American Enamel Co., Providence, R. I.
Arnstein, Eugene (Inc.), 4611 Wentworth av, Chicago, Ill.
Becker-Moore Paint Co., St. Louis, Mo.
Bigelow Varnish Co. (White), Newark, N. J.
Billings-Chapin Co., 1163 E 40th, N. E., Cleveland, O.
Billings, King & Co., 438 Pearl, New York
Booth, J. B. & Co., Pittsburg, Pa.
Bradley & Vrooman Co., 2633 Dearborn, Chicago, Ill.
Bridgeport Wood Finishing Co., New Milford, Conn.
Burns, C. L., 156 5th av, New York
Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
Canton Paint & Varnish Co., Canton, O.
Cawley, Clark & Co., Newark, N. J.
Chicago Gold Enamel Co. (Gold), 98 Jackson boul., Chicago, Ill.
Chicago Varnish Co. ("Enamelite"), 2090 Elston av, Chicago, Ill.
Chicago Wood Finishing Co., 1216 Elston av, Chicago, Ill.
Crown Varnish & Enamel Co., 171 Washington, Chicago, Ill.
Davis, H. B. Co., Keyser bldg, Baltimore, Md.
Ernecke & Salmstein Co. (Marble Paint for Walls & Ceilings), 1509 N Halsted, Chicago, Ill.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Flint Varnish Works, Flint, Mich.
Forest City Paint & Varnish Co. (All Kinds), 3334 Lakeside av, Cleveland, O.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Gerstendorfer Bros. ("Star"), 231 E 42d, New York
Harrison Bros. & Co. (Inc.), 35th & Grays Ferry rd, Phila., Pa.
Lancaster Paint & Glass Co., Lancaster, Pa.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, John & Co., 4th & Race, Phila., Pa.
Marblecrete Products Co. (For Concrete Blocks, Brick & Stone Work), Akron, N. Y.
Messenger, F. H. Co., Auburn, N. Y.
Miller & Graham, Baltimore, Md.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
Nice, Eugene E. ("Nice"), 272 S 2d, Philadelphia, Pa.
Ohio Paint & Stain Co. ("Standard," Liquid for Tin & Iron Rod, etc.), Findlay, Ohio
Patterson-Sargent Co., Cleveland, O.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
Phoenix Paint & Varnish Co. (Marbleite), 124 Market, Philadelphia, Pa.
**RINALD BROS. (Porcelain, etc.),** 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
Schlegel, Oscar, Mfg. Co., 111 E 12th, New York
Smith, Edw. & Co., 141 B'way, New York
Sovereign, C. E. Co. (Rockford Top Dressing), Rockford, Ill.
Thompson, Thos. C. (Vitrifiable), Wilmette, Ill.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila, Pa. (See adv. indx, end of book)
Toch Bros. (Est. 1848), 320 5th av, New York
**U. S. GUTTA PERCHA PAINT CO.** ("Chinaline" for Interior Finish), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Wadsworth-Howland Co., Carpenter & Fulton, Chicago, Ill.
Wadsworth, Howland & Co., Boston, Mass.
Waterall, Wm. & Co., 200 N 4th, Phila, Pa.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Whitehead, J. W., Jr. ("Whitehead"), 1 Madison av, New York,
Wilhelm, A. Co., Reading, Pa.

## 3291—Enamels (Air Drying)

Arnstein, Eugene (Inc.), 4611 Wentworth av, Chicago, Ill.
**FRENCH, SAML. H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Lawrence, W. W. & Co. (Engine Enamel, etc.), Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Standard Varnish Works, 29 B'way, New York
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

## 3292—Enamels (Aluminum)

American Enamel Co., Providence, R. I.
Arnstein, Eugene (Inc.), 4611 Wentworth av, Chicago, Ill.
Cullen, F. C. & Co. ("Peerless"), 164 Dearborn, Chicago, Ill.
Detroit Stove Polish Co., Detroit, Mich.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Gerstendorfer Bros. ("Sapolin"), 231 E 42d, New York
Hommel, O. Co., Pittsburg, Pa.
Lawrence, W. W. & Co. ("Lawrence" Weather Proof), Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis. Mo.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
Sherwin-Williams Co., Cleveland. O.

## 3293— Enamels (Baking)

American Enamel Co., Providence, R. I.
Arnstein, Eugene (Inc.), 4611 Wentworth av, Chicago, Ill.
Canton Paint & Varnish Co., Canton, O.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Philadelphia, Pa. (See adv. index, end of book)
Mound City Paint & Color Co., St. Louis, Mo.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Standard Varnish Works, 29 B'way, New York
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
Wilhelm, A. Co., Reading, Pa.

## 3294—Enamels (Bath Tub)

Acme White Lead & Color Works, Detroit, Mich.
Arnstein, Eugene (Inc.), 4611 Wentworth av, Chicago, Ill.
Behlen, Herman & Bro., 5 N William, New York
Burdsal, A. Co., 102 S. Meridan, Indianapolis, Ind.
Canton Paint & Varnish Co., Canton, O.
Cullen, F. C. & Co. ("Peerless"), 164 Dearborn, Chicago, Ill.
Davis, H. B. Co., Keyser bldg, Baltimore, Md.
Devoe, F. W. & C. T. Raynolds Co. cor Fulton & William, New York
Ernecke & Salmstein Co., 1509 N Halsted, Chicago, Ill.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Philadelphia, Pa. (See adv. index, end of book)

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Lawrence, W. W. & Co. ("Lawrence," "To-Kay"), Pittsburg, Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
Messenger, F. H. Co., Auburn, N. Y.
Miller & Graham, Baltimore, Md.
Mound City Paint & Color Co., St. Louis, Mo.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
St. Paul White Lead & Oil Co., St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila, Pa. (See adv. index, end of book)
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Wilhelm, A. Co., Reading, Pa.

## 3295—Enamels (Brewers')

Acme White Lead & Color Works, Detroit, Mich
American Bitumastic Enamel Co., 322 S Delaware, av, Phila, Pa.
Canton Paint & Varnish Co., Canton, O.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Hamrick Tank & Barrel Hard Shell Enameling Co., 5831 Wissahickon av., Phila., Pa.
Lawrence W. W. & Co., Pittsburg, Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
Mound City Paint & Color Co., St. Louis, Mo.
Nubian Paint & Varnish Co., 51st & Bloomingdale avs. Chicago, Ill.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Wilhelm, A. Co., Reading, Pa.

## 3296— Enamels (Flat)

**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)

## 3297—Enamels for Tiling, Concrete & Plaster

**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)

## 3298—Enamels (Gold, Washable)

**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Gerstendorfer Bros., 231 E 42d, New York
Lawrence, W. W. & Co. ("Lawrence" "Fort Pitt"), Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.

## 3299— Enamels (Iron)

A.-B. Polish Co., 1515 Haddon av, Chicago, Ill.
American Bitumastic Enamel Co., 322 S Delaware, av, Phila, Pa.
American Enamel Co., Providence, R. I.
Canton Paint & Varnish Co., Canton, O.
Davis, H. B. Co., Keyser bldg, Baltimore, Md.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Lawrence, W. W. & Co., Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
Otley Mfg. Co. ("Eureka," Heat Proof for Locomotive Stacks & Boiler Fronts, etc.), 1742 N Winchester av. Chicago, Ill.
Patton Paint Co., Milwaukee, Wis.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
St. Louis Surfacer & Paint Co. ("Metalsteel"), St. Louis, Mo.
St. Paul White Lead & Oil Co. (Black Iron), St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
Sterling Varnish Co. ("Sterling" Black), Pittsburg, Pa.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
**U. S. GUTTA PERCHA PAINT CO.,** ("Rice's" Oxidized Machine Enamel), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Wilhelm, A. Co., Reading, Pa.

## 3300—Enamels (Locomotive, Truck & Car)

St. Louis Surfacer & Paint Co., St. Louis, Mo.

## 3301—Enamels (Porcelain)

**RINALD BROS., 1142 N. Hancock,** Philadelphia, Pa. (See adv. index, end of book)

## 3302—Enamels (Radiator)

(See also Enamels)

Acme White Lead & Color Works, Detroit, Mich.
American Enamel Co., Providence, R. I.
Arnstein, Eugene (Inc.), 4611 Wentworth av, Chicago, Ill.
Cullen, F. C. & Co. ("Peerless" Aluminum), 164 Dearborn, Chicago, Ill.
Davis, H. B. Co., Keyser bldg, Baltimore, Md.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Gerstendorfer Bros., 231 E 42d, New York
Harrison Bros. & Co. (Inc.), 35th & Grays Ferry bldg, Phila., Pa.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
Mound City Paint & Color Co., St. Louis, Mo.
O'Brien Varnish Co., South Bend, Ind.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
St. Paul White Lead & Oil Co., St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
Wilhelm, A. Co., Reading, Pa.

## 3303— Enamels (Radium)

Bermingham & Seaman Co., 143 Dearborn, Chicago, Ill.
Mound City Paint & Color Co., St. Louis, Mo.

## 3304—Enamels (Storage Battery)

Mound City Paint & Color Co., St. Louis, Mo.
Sonneborn, L. Sons (Inc.), 262 Pearl, New York

## 3305—Enamels (Stove Pipe)

American Enamel Co., Providence, R. I.
Cambria Paint & Color Co. ("Black Boy"), Johnstown, Pa.
Chicago Wood Finishing Co. ("Elston"), 1216 Elston av, Chicago, Ill.
Crosby Mfg. Co. ("6-5-4"), Detroit, Mich.
Gerstendorfer Bros., 231 E 42d, New York
Harrison Bros. & Co. (Inc.), 35th & Grays Ferry bldg, Phila., Pa.
Lawrence, W. W. & Co., Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
Patton Paint Co., Milwaukee, Wis.
Rath Mfg. Co. ("Pipe Dream"), Hedley & Richman, Phila, Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Wilhelm, A. Co., Reading, Pa.

## 3306—Enamels (Window Screen)

Lawrence, W. W. & Co., Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.

## 3307— Enclosures (Wire)

**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)

## 3308— Ends (Bolt)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union Chicago, Ill.
Graham Nut Co., Pittsburg, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W Va
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Lake Erie Iron Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
National Supply Co., 7 W Lombard, Baltimore, Md.
New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Penn Iron Co., Lancaster, Pa.
Pittsburg Mfg. Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Rhode Island Tool Co. (With Square Nut), Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., Rock Falls, Ill.
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Upson Nut Co., Unionville, Conn. & Cleveland, O.

## 3309— Energine

Energine Refining Co. (A Fuel for Automobiles, Gasoline Engines, Naphtha Launches, etc.), Cleveland, Ohio

## 3310—Engine Roll Bars & Bed Plates

Clark, H. C. & Son Machine Co., Lee, Mass.
Dillon Machine Co., Lawrence, Mass.
Dilts Machine Works, Fulton, N. Y.
Noble & Wood Machine Co., Hoosick Falls, N. Y.
Taylor Bros. & Co., Fulton, N. Y.

## 3311—Engine Shields & Guards

Strandwitz & Scott, Camden, N. J.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 3312—Engine Starters (Automobile)

Precision Appliance Co. ("Hill" Automatic, for Gasoline Automobiles), 2315 Austin av, Chicago, Ill.

## 3313—Engine Stops (Speed Limit)

**Consolidated Engine Stop Co.** ("Monarch," "Corliss," "Columbia"), 114 E 28th, New York
**DILLMAN & SINGLE ("Single's", for** Corliss Engines), Hamilton, O.
Ford, Thos. P. Co., 407 Broome, New York
Locke Regulator Co. (Automatic), Salem, Mass.
Moline Tool Co. ("Barclay"), Moline, Ill.
**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 3314—Engine & Boiler Combined

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Atlas Engine Works, Indianapolis, Ind.
Beggs, James & Co., Liberty & Church, New York
Byers, John F. Machine Co., Ravenna, O.
Comstock Mfg. Co., Comstock, Mich.
Enterprise Mfg. Co., Columbiana, O.
Erie Pump & Engine Works (Side & Center Crank), Erie, Pa.
Farquhar, A. B. Co., York, Pa.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Frick Co., Waynesboro, Pa.
Geiser Mfg. Co., Waynesboro, Pa.
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works: 115-121 Poinier, Newark, N. J. (See adv. index & branch offices end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Murray Iron Works Co. (Vertical), Burlington, Ia.
Orr & Sembower, Reading, Pa.
Salem Iron Works, Salem, N. C.

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## 3315—Engine & Motor Parts

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

## 3316—Engineering School & Colleges

### ALABAMA.

AUBURN—Alabama Polytechnic Institute
TUSKEGEE—Tuskegee Normal & Industrial School
UNIVERSITY—University of Alabama

### ARKANSAS.

FAYETTEVILLE—Arkansas Industrial University
University of Arkansas

### CALIFORNIA.

BERKELEY—University of California
PALO ALTO—Leland Stanford, Jr., University
SAN FRANCISCO—Sogswell Polytechnic College, 26th & Folsom
Van der Naillen's School of Engineering, 113 Fulton

### COLORADO.

BOULDER—Colorado State University
FORT COLLINS—Colorado State Agricultural College
GOLDEN—State School of Mines

### CONNECTICUT.

NEW HAVEN—Yale University (Sheffield Scientific)

### DELAWARE.

NEWARK—Delaware College

### DISTRICT OF COLUMBIA.

WASHINGTON—Corcoran Scientific School of Columbian University
Bliss School of Electricity

### FLORIDA.

LAKE CITY—University of Florida

### GEORGIA.

ATHENS—University of Georgia
ATLANTA—Georgia School of Technology

### ILLINOIS.

CHAMPAIGN—University of Illinois
CHICAGO—Armour Institute of Technology
Lewis Institute
EVANSTON—Northwestern University
PEORIA—Bradley Polytechnic Institute

### INDIANA.

INDIANAPOLIS—Winona Technical Institute
LAFAYETTE—Purdue University
NOTRE DAME—University of Notre Dame
RICHMOND—Earlham College
TERRA HAUTE—Rose Polytechnic Institute
VALPARAISO—Valparaiso College

### IOWA.

AMES—Iowa State College
IOWA CITY—University of Iowa
MOUNT VERNON—Cornell College

### KANSAS.

LAWRENCE—University of Kansas
MANHATTAN—Kansas Agricultural College
WICHITA—Friends University

### KENTUCKY.

LEXINGTON—Kentucky University
State College of Kentucky

### LOUISIANA.

NEW ORLEANS—Tulane University of Louisiana

### MAINE.

ORONO—University of Maine
WATERVILLE—Colby University

### MARYLAND.

ANNAPOLIS—St. John's College
COLLEGE PARK—Maryland Agricultural College

### MASSACHUSETTS.

AMHERST—Mass. Agricultural College
BOSTON—Mass. Institute of Technology
CAMBRIDGE—Harvard University (Lawrence Scientific)
COLLEGE HILL—Tufts College
WORCESTER—Worcester Polytechnic Institute

### MICHIGAN.

ANN ARBOR—University of Michigan
HOUGHTON—Michigan College of Mines
LANSING—Michigan State Agricultural College

### MINNESOTA.

MINNEAPOLIS—University of Minnesota

### MISSISSIPPI.

AGRICULTURAL COLLEGE—Miss. Agricultural & Mechanical College

### MISSOURI.

ROLLA—Missouri School of Mines and Metallurgy
ST. LOUIS—Washington University

### MONTANA.

BOZEMAN—Montana College of Agriculture & Arts
BUTTE—Montana State School of Mines

### NEBRASKA.

LINCOLN—University of Nebraska

### NEVADA.

RENO—Nevada State University

### NEW HAMPSHIRE.

HANOVER—Dartmouth College (Prof. Robt. Fletcher, Director)

### NEW JERSEY.

HOBOKEN—Stevens Institute of Technology
NEWARK—Indicator Instruction Co. (A. C. Lippincott, Mgr.)
Newark Technical School
NEW BRUNSWICK—Rutger's College
PRINCETON—Princeton University

### NEW MEXICO.

SOCORRO—New Mexico School of Mines

### NEW YORK.

ITHACA—Cornell University

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Polytechnic Institute of Brooklyn
Pratt Institute, 215 Ryerson

#### Boroughs of Manhattan & Bronx.

NEW YORK—Columbia University, W. 116th, nr Amsterdam av
Cooper Union, Cooper sq
Manhattan College, 131st & Broadway
New York University, University Heights

**(End of New York City)**

POTSDAM—Clarkson School of Technology
SCHENECTADY—Union College
SYRACUSE—Syracuse University
TROY—Rennselaer Polytechnic Institute

### NORTH CAROLINA.

CHAPEL HILL—University of North Carolina
MOUNT PLEASANT—N. C. College of Agriculture & Mechanical Arts

### NORTH DAKOTA.

GRAND FORKS—University of North Dakota

### OHIO.

ADA—Ada College of Engineering
CINCINNATI—University of Cincinnati
CLEVELAND—Case School of Applied Science
COLUMBUS—Ohio State University
GRANVILLE—Denison University

### OKLAHOMA

STILLWATER—Oklahoma Agricultural & Mechanical College

### OREGON.

CORVALLIS—Oregon State Agricultural College

### PENNSYLVANIA.

ALLEGHENY—Western University of Pa.
CHESTER—Penna. Military College
EASTON—Lafayette College
GROVE CITY—Grove City College (Dept. of Mech. & C. E.)
HAVERFORD—Haverford College
LEWISBURG—Bucknell University (Dept. of
MEADVILLE—Allegheny College C. E.)
PHILADELPHIA—Drexel Institute, Chestnut c
Franklin Institute, 15 S 7th S 32nd
University of Pa., S 34th c Woodland av
PITTSBURG—Carnegie Institute of Technology, Forbes st
University of Pittsburg
SCRANTON — International Correspondence Schools
SOUTH BETHLEHEM—Lehigh University
STATE COLLEGE—Penna State College
SWARTHMORE—Swarthmore College

### RHODE ISLAND.

KINGSTON—R. I. College of Agr. & Mech. Arts
PROVIDENCE—Brown University

### SOUTH CAROLINA.

CLEMSON COLLEGE—Clemson College
COLUMBIA—University of South Carolina

### SOUTH DAKOTA.

BROOKINGS—Agricultural College of S. D.
RAPID CITY—State College of Mines
VERMILLION—University of S. D.

### TENNESSEE.

KNOXVILLE—University of Tenn.
NASHVILLE—Vanderbilt University
SEWANEE—University of the South

### TEXAS.

AUSTIN—University of Texas
COLLEGE STATION—Agricultural & Mechanical College of Texas
WACO—Taylor University

### UTAH.

SALT LAKE CITY—State School of Mines, University of Utah

### VERMONT.

BURLINGTON—University of Vermont & State Agricultural College
NORTHFIELD—Norwich University

### VIRGINIA.

BLACKSBURG—Virginia Polytechnic Institute
CHARLOTTESVILLE—University of Virginia
HAMPTON—Hampton Normal & Agr'l Institute
University of Hampton (Colored School)
LEXINGTON—Virginia Military Institute
Washington & Lee University

### WASHINGTON.

PULLMAN—Washington Agr'l College & School of Science
SEATTLE—University of Washington

### WEST VIRGINIA.

MORGANTOWN—University of West Virginia

### WISCONSIN.

MADISON—University of Wisconsin

### CANADA.

#### NOVA SCOTIA.

FREDERICTON, NEW BRUNSWICK—University of New Brunswick
WINDSOR—King's College

#### ONTARIO.

KINGSTON—Royal Military College
School of Mining
PETERSBOROUGH—Mechanics' Institute
TORONTO—Knox College
School of Practical Science
University of Trinity College

#### QUEBEC.

MONTREAL—College of the Jesuits
McGill University
QUEBEC—Laval University

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Hanna Mfg. Co., Troy, N. Y.
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Hunter Mfg. Co., Seattle, Wash.
Iszard-Warren Co. (Inc.), ("Sterling"), 136 N 12th, Phila., Pa.
Keuffel & Esser Co., 127 Fulton, New York
**KOLESCH & CO., 138 Fulton, New** York. (See adv. index, end of book)




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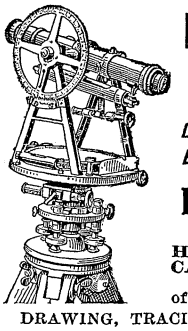
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Dozier, C. T. (Consulting Mining), Lick bldg
Dunuanson, Hanilson Co., 3724 Kearny bldg
Duryea, Haehl & Gilman (& Mining), Humboldt blk
Eckart, W. R. (Consulting), 3014 Clay
Farey & Jefferies, 2698 Kearny
Forsyth, Robert, 226 Douglas
Fowler, Edw. J. (Mining, Specialty Copper), (care Pacific Fdry Co.)
Freiermuth & Price (C. E.), Crocker bldg
Galloway & Markwart, First Nat'l Bank
Gardner, Fred'k A., 3819 Douglas bldg
Globe Engineering Co. (Mining), 1937 Market
Gould & Curry Co. (Mining), 339 Bush ket
Grimwood, Wayte & Co., 1335 Kearny
Haas, Edward F., Merchants Exch bldg
Hall, Leon M. (Consulting), Kohl bldg
Hall, Wm. Ham., 175 Kearny
Hall, Wm. H. (Consulting), 324 Haight
Hammatt, Wm. C. (Chf. Engr., Miller & Lux, Inc.), Merchants Exch bldg
Heald's Business College (Mining), 425 Mc-
Heintz, Theo. R., 4362 Douglas Allister
Heller & Wilson (Consulting), 1st Nat'l
Hill, Geo. S., 1384 Douglas Bank bldg
Holmes, Howard C. (Consulting), 112 Market
Homberger, Heinrich (Consulting), Pacific bldg
Hood, Wm. (Chief Engineer S. P. Co.), Flood bldg
Hopps, J. H. (Consulting & M. E.) 517 Market
Hornlein & Noble (Inspecting), Humboldt bldg
Hough, E. & E. (Consulting & Marine Surveyor), Merchants Exch bldg
Hunt, Andrew M. (Consulting), Union Trust bldg
Hunt, Dillman, Meredith & Allen (Inc.) (Hydraulic, M. E., etc.), Union Trust bldg
Janin & Smith (Consulting & Mining), Johnson, R. E., 2593 Douglas Kohl bldg
Kerr, Mark B. (Mining), Mills bldg
Leggett & Hellmann (Consulting Mining), 519 California
Leonard, John B., Sheldon bldg
List, Charles, Williams bldg
Livermore, N. B. & Co. (Also Hydraulic, etc.), 604 Mission
Long & Hoyt Co., Inc., Monadnock bldg
McEnerney, C. L., 1154 Kearny
McMeen, S. G. (Consulting), 333 Grant
MacKenzie, John H. (Mining), Crocker bldg
Manson, Marsden, 2010 Gough
Meredith, Wynn, Union Trust bldg
Merritt, Chas. W. (Metallurgical), 143 2d
Moore, Chas. C. & Co. (Mining), 63 1st
Morser, E. J. Co. (C. E. & Surveyors), Morton, R. F., 1867 Douglas 3632 Douglas
Muhs, Fred'k R., Brocker bldg
Noyes, Wm. S. (Mining), Mills bldg
Oliver, Edwin Letts (Mining), 9 1st
O'Shaughnessy, M. M. (Consulting, Mining, Hydraulic, etc.), Union Trust bldg
Ough, Jos. M. (Consulting), 1st Nat'l Bank
Pidge, W. C. (C. E.), Russ bldg
Prell, Jno. Stillman, 1190 Ellis
Punnett, John M., 3215 Kearny
Radford, W. H. (Mining), 2360 B'way

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Root, G. J. (Mining), 1260 O'Farrel
Schussler, Herman, 4077 Douglas
Smith, Emery & Co. (Mining), 1747 Kearny
Smith, Frank E. & Co. (Consulting), 418 Eugenia av
Stebbins, Elwyn W. (Mining), Mills bldg
Stevens, W. A. (Mining), Merchants Exch bldg
Stewart, Wm. H. (Consulting), 216 California
Southard & Pope, 327 Douglas
Throckmorton, Howard (Mining & Petroleum), Mills bldg
Tucker, E. E., 921 Douglas
Turner, H. W. (Mining & Geologist), Mills bldg
Van Norden (Consulting), Union Trust bldg
Von Goldern, Otto (Consulting), Pacific bldg
Wagoner, Luther (Consulting), Pacific bldg
Wallace, Jno. H., 2414 Gough
Wellington, Geo. J. (C. E.), Alaska Cam'l bldg
Willberg, Ernest N. (Surveyor), 708 Turk
Wolf, J. H., 2464 Douglas
Woodruff Co., 1049 Howard
Wright, Wm. O. (Mining), 604 Mission

SAN JOSE—Fisher, Henry B.
Herrmann Bros. (& Surveyors)
McMillan, John G. (County Surveyor)
Sainsevain, Paul C.
Shelly, S. H.
Wakefield, G. F.

SAN LUIS OBISPO—Story, Geo.

SAN RAFAEL—Melliss, David E. (Consulting & Mining)
Richardson, Geo. L.

SANTA ANA—Finley, S. H. (Also Hydraulic)
Steward, V. L. (City & M. E.)

SANTA BARBARA—Flagg, Josiah F.
Poett, A.

SANTA CLARA—Moore, C. E. (Consulting)

SANTA CRUZ—Wanzer, Horace

SANTA MONICA—Eaton, Frederick
James, Thos. A.

SANTA PAULA—Orcutt, W. W. (Also Hydraulic, etc.)

SANTA ROSA—Davis, P. R.

SOUTH PASADENA—Postle, H. R.

STOCKTON—Broadhurst, G. W.
Budd, H. B.
Newell, W. H.
Quail, F. E. (County Surveyor)
Tumelty, R. C. (City)

TULARE—Barber, Emmet

UKIAH—Von Allen, William

VENTURA—Hare, E. T.
Isham, M. E. Laurel
Power, Geo. C.

VISALIA—Smith, C. D.

WATSONVILLE—Lewis, J.

WEAVERVILLE—Lowden, W.

WILLOWS—Ross, Douglas F. (Chief Engineer Sacramento Valley Mig. Co.)

YUBA CITY—McMurtry, Guy

## COLORADO.

ASPEN—Nyce, George W.
Wilcox, H. A.

BLANCA—Blauvelt, Louis D. (Chf. Engr. San Luis So. Ry.)

BOULDER—Armstrong, F. C. (C. E. & Mining)
Chase & Hall (Mining)
Teal, Geo. W. (Mining & Consulting)

BRECKENRIDGE—Cramer, Fred. O.

CAMP BIRD—Wolf, Harris J. (Mining)

CANYON CITY—Livingston, Archibald R.
Mitton, Chas. L.
Smythe, W. R. (C. E.)

CENTRAL CITY—Lowe, Henry P.
Rank, S. A. (Mining & Surveyor)
Rickard, Forbes
Todd, L. C. (Mining)

COLORADO SPRINGS—Armstrong, J. R. (Mining)
Ashworth, R. H.
Dickerman, Alton L.
Lunt, H. F. (Mining)
Reid, H. I. (& Consulting)
Ritter, Etienne A. (Mining & Geologist)
Sanford, F. N.
Sawyer & Garstin (Mining & C. E.)
Taff, G. A.
Van Diest, E. C. (Consulting & Mining)
Wardwell, R. W.
Woodside, W. P. (County Surveyor)

CRIPPLE CREEK—Arnold, R. R. (Mining)
Arthur, Edward P. Jr. (Mining)
Brewster, J. K. Jr.
Countryman & Jaquith (Mining)
Crosley, F. W. (C. E., Hydraulic)
Finn, Oliver B.
Harris, Wm. & Crossley (Mining)
Hills & Willis
Jones & Arnold
Kennedy & Arnold
Miller, E. E.
Moore, Chas. J.
Smith, James T.
Strickland & Von Phul
Toll, R. H. (Mining)

DENVER—Allen, Carl A. & C. Lorimer, 17th cor Champa
Anderson, G. G. (Consulting), Hughes blk.
Argall, Philip (Mining), Majestic bldg
Babbitt, E. C., Continental bldg
Baker, Frank D (Consulting), Symer bldg
Baker, G. R. (C. E.), Equitable bldg
Bancroft, Geo. J. (Mining), McPhee bldg
Beaumont, C. W., 308 17th
Becker, C. W. (Mining), Majestic bldg
Beeler, Henry (Consulting, Mining), Boston bldg
Beeler, John A., Majestic bldg
Boehmer Max (& Mining), Jacobson bldg
Bonnevie, N. C. (Consulting), 2501 Gaylord
Brace, W. C. (Mining), Equitable bldg
Brandes, J. F. (Mining), Equitable bldg
Brunton, D. W. (Mining), Symes bldg
Buckingham, C. L., Barclay bldg
Bulkley, Frank (Mining), Equitable bldg
Burlingame, W. E. (Mining), 1738 Lawrence
Bull, George M. (Consulting)
Carpenter's, F. R. Sons (Mining & Metallurgical), Equitable bldg
Cazin, Franz (Consulting M. E.), Jackson bldg
Chase, Chas. A. (Mining), Equitable bldg
Chauvenet, Regis (Mining), Equitable bldg
Chase Engineering Co., Jackson bldg
Chase, Edwin E. (Mining), Equitable bldg
Collins, G. E. (Mining), Boston bldg
Colvin, C. K. (Mining), 1515 Cook
Comstock, C. W. (Consulting, Mining), Boston, bldg
Consolidated Engineering Co. (Consulting Mining), Boston bldg
Cowan, Herbert W. (Chf. Engr. Coy. & So. Ry. Co.), Cooper bldg
Crocker & Ketchum (Consulting), 811 17th
Curtis, Loren B. (C. E., Hydraulic), Commonwealth bldg
Curtis & Reichhelm (Consulting), Ideal bldg
Dickinson, H. P. (Mining), Majestic bldg
Disbrou, Wallace F. (Mining), Shirley Hotel
Doble, Robert McF. (Consulting), 17th cor Stout
Draper, M. D. (Mining), 701 Sherman
Duvall, Z. T., 3048 Franklin
Elliott, W. R., Symes bldg
Farish, Geo. E. (Mining), Cooper bldg
Farish, J. B. (Mining), Cooper bldg
Farnum, Dwight (Mining), 400 Ernest
Ferguson-Geffs Eng. Co., Century bldg
Field, Fellows & Hinderlider (Consulting), New Century bldg
Finch, J. W. (Mining & Geologist), Symes bldg
Foster, Ernest Le Neve (Mining), Masonic Temple
Gibson, Geo. W. (Mining), 1101 Gaylord
Grant, R. J. (Mining), 815 Ernest
Graves, Abner (Mining), Bank bldg
Graves, Nelson D. (Mining), Bank bldg
Hartley, Carney (Mining), Coronado bldg
Hastings, John B. (Mining), Boston, bldg
Hewitt, Arthur F. (Consulting), McPhee
Hewitt, E. A. (Mining), 1132 15th
Hills & Willis (Consulting Mining), McPhee
Hinman, L. R., Ideal bldg
Hunter, Jno. B., 351 B'way
Ingersoll & Bell (Mining), Equitable bldg
Jackson, E. W., McPhee bldg
Jaycox, Thos. W., Majestic bldg
Jones, R. M. & Co. (Consulting), Ideal bldg
Joslyn, Paul L., 17th & Curtis
Kauffman, V. A. & Co., 931 B'way
Lamont, Eugene M. (Consulting Mining), 568 Clarkson
Lonergan, P. J. (Mining), Calif. bldg
Lowe, Henry P. (Mining), Equitable bldg
Lund, P. H. (Mining), Temple Court
McCanne, D. J. (C. E.), 73 Lincoln
McClurg, J. A. (Mining), Majestic bldg
McFadden, Geo. B. (Mining), 3052 W 23d av
McNeil, Jno. (Mining), Equitable bldg
Marks, J. H. (C. E.), Empire bldg
Matthes, Gerard H., c o Central Colo. Power Co.
May, John G. (Mining), Cooper bldg
Miller, David G. (Mining), Equitable bldg
Milliken, W. B., 1407 Josephine
Milner, T. J. (C. E.), Majestic bldg
Minard, F. H. (Mining), Equitable bldg
Mitchell, Geo. (Mining), Symes bldg
Monat, Malcom (Mining), 1643 Champa
Moore, Charles J. (Mining), 1116 13th av
Morley, F. H. (Mining), McPhee bldg
Myers, J. H. (Mining), Exchange bldg
Noble, L. S. (Mining), Equitable bldg
Norman, J. (Mining), Exchange bldg
Ober, G. F. (Pres. Ober Engineering Co.), 1731 Arapahoe
O'Brien, Peter (Consulting), Nassau bldg
Odenheimer, John M., 3033 Elizabeth
Page, Wm. Byrd (Mining), Equitable bldg
Palmer, S. E. (Mining), Kittredge bldg
Parker, R. A. (Mining), Colorado bldg
Parrish, K. C. (Mining), 726 Downing
Pearl, Walter (Consulting), 18th & Welton
Peck, Ira F. (Mining), Kittredge bldg
Peck, Wm. A. (Mining), 1643 Champa
Prince, Geo. T. (Consulting), 1520 Champa
Pritchett & Hamilton (Consulting Mining), Colorado bldg
Purington, Chester W. (Mining), McPhee bldg
Reid, Geo. D. (Mining), Equitable bldg
Rickard, Forbes (Mining), Equitable bldg
Rocky Mountain Exploitation Co. (Mining), 1726 Broadway
Rogers, E. L. (Civil & Hydraulic), 1643 Champa
Sanderson, H. S. (Mining), Empire bldg
Searing, L. (Consulting, Mining), 30th c Blake
Sebben, Edw. W. (Mining), 1331 Humboldt
Schlessinger, B. S. (Mining), Kittredge
Schroter, Geo. A. (Mining)
Smith, Chas. A. (Mining), Jacobson bldg
Snedaker, Jas. A. (Mining), Equitable bldg
Spicer, H. W. (Mining), Cooper bldg
Spuur & Cox, Inc. (Mining), Boston bldg
Sumner, Horace A. (Chief Engineer Den. N. W. & Pac. Ry. Co.), Majestic bldg
Sumner, Robt. S. (Consulting), Century bldg
Thomas, Chas. Sewell Jr. (Mining), 17th &
Toll, R. H. (Mining), Boston, bldg Champa
Travel, W. W. (Mining), Majestic bldg
Ulrich, J. C. (Irrigating & Hydraulic), (P. O. Box 1342)
Vail, Walbran & Read, Equitable bldg
Van Cortlandt, E. N. (Mining), Continental
Vandemoer, John J., 1230 Ogden bldg
Vickery & Foster (C. E. & Surveyor), 16th cor Glenarm
Warwick, A. W. (Mining), McPhee bldg
Welles, A. M. (Civil & Mining), Majestic bldg
Wetherill, Wm. C. (Chief Engineer Empire Zinc Co.)
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Wilkinson, Thos. L. (Mining), Boston bldg
Wilson, Nat., Equitable bldg
Wolf, Harry J. (Mining), 1574 Steele
Wrigley, R. F. (Mining), Mack bldg
Wuensch, Alfred (Mining), Majestic bldg
Young, R. E. (C. E.), Mercantile bldg

DURANGO—Burwell, Blair
Harper & Harper
Jones, Finney
Tiffany, J. E. (mining)

FLORENCE—McFall, A. B.

FORT COLLINS—Lawrence, J. W.
McAnelly, E. C.
Rist, Wm.

GEORGETOWN—Marsh, George E.
Morris, Chas. H.

GLENWOOD SPRINGS—Rosenberg, Theo. (Consulting)
Trumbor, W. H.

GRAND JUNCTION—Haskell, Chas. W.

GREELEY—Baker & Walter
Shattuck, Orville F.
Stimson, L. L.
Walters, R. T.

GUNNISON—Alkine, O. H.
Dofflemyer, J. A.

IDAHO SPRINGS—Stephens & Barbour
Underhill, James
Ventress, A. J.
Wiley, W. H.

LA JUNTA—Lewis, F. T.

LAS ANIMAS—Beach, C. W.
Beach, Frank

LEADVILLE—Boehmer, Max
Holland, Geo.
Jaycox, T. W.
McNair, F. J.
Platt, Howarad
Smith, W. L. G.
Thielen, Alfred

LONGMONT—Calkins, C. C.

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Russell, H. H.
Whinnerah, Richard
PAONIA—Rittenhouse, Walter B.
PUEBLO—Hathaway, E. W.
Helander, A. H. (Mining)
Knight, C. C.
McKennan, J. B. (Mining)
SALIDA—Spray, S. J.
SILVERTON—Dyson, James
Hollis, R. W.
Hunt, E. W.
Trippe, T. M.
TELLURIDE—Holland, L. F. S. (Mining & Metallurgist)
Lay, H. C.
Townsend, Arthur R. (Mining)
TRINIDAD—Knickerbocker, C. H.
VICTOR—Bodfish & Atherton, 11 Doyle blk
Davis & Byler

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Greenwood, A. H.
Sage, Geo. H.
Stearns, Elmer W.
BLOOMFIELD—Duncan, Edgar T.
BRIDGEPORT—Fletcher & Link
Ford, Theo. B., 946 Main
McElroy & Kershaw
McKenna, Maurice F.
Palmer, Wm. B.
Scofield & Ford
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McLean, Geo. H.
CLINTON—Weaver, Halsey A.
DANBURY—Bacon, John W.
Brown, Charles O.
Pearce, C. E.
DANIELSON—Pike, William K.
DERBY—Brinsmade, Daniel S. (C. E. Hydraulic)
Eckhart, M. E.
Huson, W. S.
Johnson, George A.
Smith, G. E.
EAST HARTFORD—Olmsted, C. Henry
FARMINGTON—Potter, Danl. C.
Wadsworth, A. R.
GREENWICH—Gregory, J. Louis
Minor, Sheldon E.
Peck, Leon F.
Rungee, Edw. J.
HARTFORD—*Allen, Francis B. (Second Vice Pres., Hartford Steam Boiler Ins. & Insp. Co.)
Allen, Julian S., 853 Prospect av
Ayres, Henry W. (Hydraulic), 66 State
Belden, Clifford H., 217 Laurel
Buck, Henry R., 36 Pearl
Bunce, Chas. H., 902 Main
Burt, Luther W., 39 Pearl
Bush, Edw. W., 650 Main
Clark, Herbert G., 800 Main
Clark, Roscoe N. (Asst. City), 800 Main
Cole, Clinton L. (Consulting), 650 Main
Corson, Wm. R. (Consulting), 36 Pearl
Ford, Fredk. L. (City), 800 Main
Graves, Edwin D. (Consulting), 650 Main
Henderson, John T., 650 Main
Johnson, Wm. D. (C. E. Architect), 26 State
Lee, Harry K. (Consulting & Contracting M. E.), 225 State
Libby & Blinn (Consulting), 164 State
Loomis, Frank W. (Surveyor), 280½ Laurel
New England Engineering Co., 7 Haynes
Souther, Henry (Consulting)
Spencer & Washburn, 80 Pearl
Sponsel, Chas. W. (Consulting, C. E. & M. E.), 36 Pearl
Stone, E. M., 49 Pearl
LAKEVILLE—Pettee, Wm. E.
MERIDEN—Clark, W. S.
Lane, John S.
Pierson, S. C. (& Surveyor)
MIDDLETOWN—Augur, E. P.
Bishop, Geo. (all Hydraulic, etc.)
Blatchley, C. H. (Consulting, Mill & Structural Steel Building & Bridges)
Wilcox, Ralph M. (City & Surveyor)
MILFORD—Clark, Vincent B.
NAUGATUCK—Ham, Geo. C. (& Surveyor)
NEW BRITAIN—Brown, R. S.
Cadwell, Wm. H. (C. E., Surveyor & Architect)
Jarvis, Chas. M. (1st Vice-Pres. Am. Hdw. Corp.)
NEW BRITAIN—Caldwell, Wm. H.
Unkelbach & Perry
NEW HARTFORD—Smith, Robert R.
NEW HAVEN—Amrhyn, G. X.
Barney, Sam'l E. (Prof. C. E., Yale Univ.)
Blair, Clarence M., 1370 Chapel
Blatchley, Wm. J., 219 Blatchley av
Buddington, J. E. (Consulting), 156 Maple
Cahn, Alex., 839 Chapel
Du Bois, A. J. (Prof. C. E., Yale Univ.)
Easterbrook, Fred'k J., 82 Yark sq
Everit, Edw. H., S. N. E. Tel. Co.
Gladding, Henry H. (Ass't City Engineer)
Hadley, A. T. (Pres. Yale University)
Harte, Chas. R., 305 State
Hill, Albert B. (Consulting, etc.), 100 Crown
Huntoon, Louis D. (Consulting, Civil & Mining), Yale University
Jackson, J. Fred'k (C. & Construction E.)
Kelly, C. W. (City), City Hall 82 Church
McClelland, J. F. (Mining), Drawer C, Yale Sta.
Nettleton, Edw. S. (Asst. City), City Hall
Nichols, Chas. H. (Consulting), 865 Chapel
Norcross, Jos. A. (Secy. & Treas. New Haven Gas Light Co.)
Sellers, Philip (Mill Eng.), 756 Chapel
Spencer, W. T. (Division Engineer), R. R. Office bldg
Sperry, A. Wm. (C. E. & Surveyor), 82 Church
Tracy, J. C. Prof. (Inst. C. E., Yale Univ.)
Verrill, G. E., 42 Church
NEW LONDON—Adams, Henry (M. E.)
Daboll & Crandall (& Surveyors)
Darrow, Courtland R., Waterford
Richards, W. H. (City), City Hall
NORFOLK—Brown, Edmund (Supt. & Eng. of Norfolk Water Co.)
NOROTON—Renshaw, Alfred H.
NORWALK—Hoyt, Samuel W., Jr.
Morehouse, Ferris S.
Rider, Jos. B.
Van Buren, Robt.
Wood, C. N.
NORWICH—Chandler & Palmer, 161 Main
Pitcher, Geo. E.
Preston, Chas. H. (Structural)
POMFRET—Sabin, Ralph J.
PUTNAM—Clark, Edgar
RIDGEFIELD—Seymour, W. O.
ROCKVILLE—McKnight, John T.
SALISBURY—Pettee, W. E.
SOUTHINGTON—McKenzie, Theo. H. (Sanitary & Hydraulic)
SOUTH MANCHESTER—Cheney, Richard O.
STAMFORD—Nash, Paul Jr.
Parsons, Harold A.
Pierce, W. B. (& Surveyor)
STRATFORD—Morehouse, Wm. C.
THOMASTON—Eddy, Chas. W.
TORRINGTON—Shelton, W. M. P.
WALLINGFORD—Davis, Henry L.
McLean, Alex. J.
WATERBURY—Cairns, Robert A. (Hydraulic. Sanitary & City)
Fitch, W. E.
Patton, Arthur J.
Reynolds, W. B.
Smith, W. G.
Welton & Bonnett
WEST HARTFORD—Alderson, A. B.
Beach, Chas. E.
Hall, A. Clark
Johnson, Wm. E.
Peck, Ermon M.
WEST HAVEN—Forbes, H. De B.
Gagel, Edw.
Heitman, Adrian C., Jr.
Nason, Frank L. (Mining & Geologist)
Palmer, G. E.
WILLIMANTIC—Card, Huber D.
Fenton, Robt. (City)
Mitchell, Robert E.
WINSTED—Bradford, G. M.
Hulbert, Robert S.

## DELAWARE.

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NEW CASTLE—Bryson, Andrew (Pres. Bryl gon Steel Casting Co.)
WILMINGTON—Fenn, Wm. H., du Pont bldg
Hatton, Thomas C. (Consulting)
Hope & Tissell
Kimmey, Wm. A.
Price, Francis A.

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Beale, Carroll, 902 F, N W
Benton, W. H. (& Surveyor), 1461 Fla av. N W
Berrall, Jas. (& Surveyor), 718 14th, N W
Bishop, Robt. S., Evans bldg
Boggs, Frank C. (Capt. Corps of Engrs., U. S. A.)
Boyle-Robertson Construction Co., Union Trust bldg
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Carll, David S. (Gen. Mgr. Capital Traction Co.)
Chittenden, Geo. B. (Mining), 1416 F, N W
Colonna, B. A., 140 B, N E
Darliing, Ehud N., 209 A, S E
Davis, Geo. M., Hibbs bldg
Dennis, Wm. F. (Consulting), Colorado bldg
Douglas, W. J., District bldg
Eckel, Edwin C. (Mining), Munsey bldg
Fowler & Gillis (Consulting), Home Life bldg
Freyhold, Felix, 236 1st, S E
Gordon & Conard, Maryland bldg
Green, Bernard R. (Supt. Bldgs & Grounds) Library of Congress
Gunnell, Wm. C., 1520 H, N W
Hardesty, F. S. (Consulting C. E.), Home
Hoge, Philip B., 141 Q, N W Life bldg
Howell, David J. (& Surveyor), Union Trust bldg
Jackson, Gilbert T., 1423 K, N W
King, Harvey, 902 F, N W
Latimer, Wm. J. (Surveyor), Anacostia
McCoy, Charles T. (Mining), Colorado bldg
Mackall, B. F., Met Bank bldg
McKenney, Chas. A. (Consulting), 723 15th, N W
Marshall & Marshall (& Consulting), 729 15th, N W
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Miner, Chas. A., Met. Bk. bldg
Orrison & Gardner, Union Trust bldg
Page, Wm. N., 1863 Kalorama rd
Phillips, R. Henry, 1410 H, N W
Power, Thos. W. Engineering Co. (Consulting & Constructing), 902 F, N W
Pressey, Harry A., 1425 T, N W
Pushaw, Chas. P. (Mining), 1314 Vt. av. N W
Rappanier, Frank O., 1407 N Y av, N W
Rose, Frank W., 902 F, N W
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Stevens, Harry, 1740 14th, N W
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Curtis & Kooker (& Surveyors), Realty bldg
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Werner, E. A. (Consulting), 927 Candler
Wilkins, Grant (Consulting), 23 Whitehall
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Williams, Robert E., 84 La Salle
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Dunn, Chas. H. (& Surveyor), Court House
Harman, Jacob (Sanitary & Agricultural Drainage), 120 Fredonia
McMullen, Charles A. (C. E.), New Library bldg
Maury, Dabney H. (Consulting, Hydraulic, etc.), 129 N Jefferson av
Woermann, J. W. (C. E.), Observatory bldg
Thompson, Almon D. (Consulting), Woolner bldg
PRINCETON—Hodgman, Romanus
QUINCY—Bushnell, Web P.
Chatton, Enoch R.
Hancock, F. L.
Prince, Edw.
RIVERSIDE—Smith, Wm. S.
ROCKFORD—Barnes, W. F.
Hand, S. B. (City)
Main, Edw. (City Hall)
Rutledge, Arthur E.
Sabin, Joy H. (Consulting)
Stowell, Chas. C., 328 N 4th
Tissandier, Th. L. Leon de (County Surveyor)
ROCK ISLAND—Darling, Wm. A.
Treichler, Wallace (County Surveyor & City Engineer)
ST. DAVID—Quade, J. C.
SHELBYVILLE—Fish, L. E. (Consulting)
SPRINGFIELD—Hamilton, F. H. (City)
Johnson, A. N. (State Highway)
Miller, G. H. & H. (& Surveyors)
STREATOR—Herbert, F. W. (City)
TAYLORVILLE—Michels, J. S.
Powell, R. M.
THEBES—Brown, Martin
VANDALIA—Johnson, James H.
WAUKEGAN—Bowen, H. L.
Osterfield, C. P.
Russell, Chas. F.
WESTERN SPRINGS—Nichol, John
WHEATON—Herrick, G.
Prout, Chas. A.
Vallette, J. G.

## INDIANA.

ALBION—Foot, G. L. (Surveyor)
Johnson, Jas. T.
Moore, Fred B. (Surveyor)
ANDERSON—Downey, M. H.
Ross, Alex. (Surveyor)
Wilcox, E. J.
ATTICA—Foster, J. A.
Sadler, G. P. N.
AURORA—Fish, Chas.
Gridley, A. T. (Surveyor)
Walters, Lee
BEDFORD—Houston, G. C.
BLOOMFIELD—Clogston, W. W. (Surveyor)
Parker, F. M. (Surveyor)
BLOOMINGTON—Hanna, U. S. (City)
BLUFFTON—Batson, B. A. (Surveyor)
Kiebele, Cuno
North, Daniel O. (Surveyor)
Powers, W. H.
BOONVILLE—Meyer, L.
BRAZIL—Kattman, Frank A. (Civil & Mining)
Mooney, Patrick
Sherfey, David
Stevenhart, Gus
Wilkinson, O. E.
BROOKVILLE—Bradburn, Chas.
Burkhart, John
Carter, Calvin (Surveyor)
Dudley, Joseph
Lawrence, T. W. (Surveyor)
CANNELTON—Tewlin, Owen, Jr.
COLUMBIA CITY—Miller, A. N.
Strong, E. K. (City)
COLUMBUS—Deist, Henry C. (County Surveyor)
Hege, Levi
Rights, W. H. (City)
CONNERSVILLE—Hanson, Karl
CORYDON—Armstrong, Andw. (Surveyor)
Sharp, Dan. (Surveyor)
CRAWFORDSVILLE—Harding, Jas. A. (Surveyor)
Hoffman, Fred
Jamison, Alfred E.
McConnell, I.
Sharpe, W. E.
Simpson, E. S.
Waugh, J. M.
CROWN POINT—Fisher, Geo. W.
Knight, Frank (Surveyor)
Metzler, F.
Strode, Alden (Surveyor)
DANVILLE—Franklin, W. F.
DECATUR—Ernst, Chas. C.
Fulk, W. E.
McKean, G. E. (Surveyor)
Tyndale, J. W.
DELPHI—Kirkpatrick, Elonzo E. (Surveyor)
Obear, James
Sines, Chas. G. (Surveyor)
Smith, H. F. (City)
Thompson, W. P. (City)
DUNKIRK—Badders, W. H.
EDINBURG—Cutsinger, F. M.
Downes, W. E.
Rennie, J.
ELKHART—Hitchcock, L. E.
EVANSVILLE—Burnett, Stafford S. (County Surveyor)
Genung, C. C., 327 U 3rd
Pfaffiin, August (City), City bldg
Saunders, J. D. & M. S., 212½ Locust
Temme, Wm. H., 218 E Maryland
FAIRMOUNT—Fletcher, Geo. A.
FORT WAYNE—Goshorn, J. S. (Surveyor)
Randall, Frank M. (City), City Hall
Snyder, Ralph M.
Spindler, D. F. (Surveyor)
FOWLER—Dayle, J. P. (Surveyor)
Vannatta, J. S. (Surveyor)
Van Der Voort, W. S. (Surveyor)
FRANKFORT—Brown, Jas. R.
Cheney, Chas. E.
Huffine, Chas. C. (Surveyor)
Shane, Alex.
Sholl, John (Surveyor)
FRANKLIN—Middleton, Ed. L.
Joseph, John E. (County Surveyor)
GARRETT—Jordan, Sam'l
Speelman, J. A.
Van Auken, J. J.
GAS CITY—Knight, Cortez
Leonard, J. J.
GIBSON—Seymour, Robt. B.
GOODLAND—Alter, Lewis S.
Hamilton, Robert (Surveyor)
GOSHEN—Cooper, John L.
Hatch, W. R.
GREENCASTLE—Denny, Jas.
Lane, A. A. (Surveyor)
Randall, H. M.
GREENFIELD—Lewark, Frank T., Court House
GREENSBURG—Black, Hy.
Craig, J. W.
Sandusky, Hy.
Stagg, Clyde
Stagg, J. A.
HAMMOND—Bridge, W. F. (Surveyor)
Bump, E. W.
Hutton, J. F.
Lyons, P. J.
HARTFORD CITY—Fulton, Geo. T.
Harley, Wm.
McMichael, David A.
HUNTINGBURG—Berger, Henry
Smith, M. F.
Taylor, H. E.
HUNTINGTON—Guthrie, Frank
INDIANAPOLIS—American Engineering Co., Terminal bldg
Brossman, Chas. (Consulting), Union Trust
Brown, Chas. A., Indiana Trust bldg bldg
Brown, Chas. Carroll (Consulting, Municipal Works, etc.), Commercial Club bldg
Cassady, Arthur B. (Consulting), Claypool
Cheney, Geo. M., Talbot blk bldg
David, Thos. H., Terminal bldg
Deane, J. H., 420 W 30th
De Frees, Morris M., Saks bldg
Fatout, Hervey B. (& Surveyor), Baldwin
Griffith, John J., Law bldg bldg
Hill, Edward, 1032 W 30th
Indiana Eng. Co., Board of Trade bldg
Jeup & Moore (& Sanitary), Ind. Trust bldg
Klausman, Henry W. (County Surveyor), Saks bldg
Lathan & Walters, State Life bldg
Mansfield Engineering Co. (Reinforced Concrete & Steam & Electric Rwy. Work a Specialty), Bd. of Trade bldg
Shafer, Jno. A., 3725 N Illinois
Shearer, Samuel H., 2002 N Alabama
Shiel, Walter R., Saks bldg
Woodbridge, Frank, Union Trust bldg
Woods, Robt. P. (Consulting), Traction Terminal bldg
JASONVILLE—Blackledge, Rolin H.
JEFFERSONVILLE—Keith, L. Early
Lyon, V. W. (City)
KENDALLVILLE—Bortner, Henry
KNIGHTSTOWN—Baxter, Chas.
KOKOMO—Bruff, Jas. F.
Ehrman, Wm. A.
Easterling, Al. (Surveyor)
Hunt, Ellsworth (Surveyor)
Jones, O. O.
Mann, W. F.
Morrow, Jackson
Smith, A. W.
LAFAYETTE—Alexander, W. F. & Son
Brown, George S.
Miller, Melville W. (Surveyor)
Mills, Jas. L.
Pifer, Chas. W.
Robertson, C. H.
Seastone, Chas. V.
Stevenson, G. H.
Vawter, P. C. (City)
Young, G. A.
LA GRANGE—Hosteller, J. W. (Surveyor)
LAPORTE—Burner, Hiram
Henock, Milton J.
Norris, J. D.
LAWRENCEBURG—Fitch, Geo.
LEBANON—Coulson, Samuel R.
Fulwider, Jno. W.
Huckstep, Thos. W. (Surveyor)
Wade, John L.
LIBERTY—Raridan, Norris (Surveyor)
LIGONIER—Gerber, E. B.
Hays, John
Jeanerette, R. E.
Treash, U. R.
LINTON—Cunningham, Fred.
LOGANSPORT—Beal, Jas. A.
Coleman, Henry F.
Osmer, W. A.
Troutman, Harry W.
LOWELL—Clark, R. A.
Garrison, Jas.
LYONS—Clogston, W. W.
Yeoman, S. N. (Surveyor)
MADISON—Day, W. B.
Sering, J. J.
MARION—Overman, L. M.
Petrie, T. E.
Smith, Ansel R. (County)
Smith, C. D. (Surveyor)
MARTINSVILLE—Goss, C. G. H. (Consulting)
Johnson, Hez K.
Phillips & Goss (Hydraulic)
MICHIGAN CITY—Combs, O. E.
Koehlin, Henry
Miles, H. M.
Renkowitz, John
Wallace, Harold M.
MISHAWAKA—Moore, W. S. (City)
MITCHELL—James, W. M. (City)
MONTICELLO—Bushnell, Web. P.
Davison, S. A.
Lawri, R. A.
Redding, Allen (Surveyor)
MOORESVILLE—Johnson, H. H.
MOROCCO—Harpole, W. B.
MOUNT VERNON—Anderson, E. S. (Surveyor)
Sarlls, George W.
MUNCIE—Gough, Chas. (Surveyor)
Hefel, Tony C.
Moore, Harry V. (County Surveyor)
Potter, John O. (City)
Wood, Wm. H. H.
NEW ALBANY—Coolman, E. B. (Surveyor)
Mann, Sam'l T. (City)
NEWCASTLE—Ackley, Jacob
Clark, C. B. F.
Cook, D. K.
Minesinger, Omer (Surveyor)
Troyer, J. E.
NOBLESVILLE—Cottingham, C. J.
Findley, Herbert L.
Mitchel, J. A. (Surveyor)
Shannon, J. S.
NORTH VERNON—Prather, W. B.
OSGOOD—Stimpson, Earl
OTTERBEIN—Van Der Vort, W. S.
PAOLI—McPheeters, A. N.
PERU—Cole, R. H. (City)
Horan, Michael (City)
Smith, Arthur W.
Trippeer & Son
PETERSBURG—Ficklin, William
PLYMOUTH—Butler, J. C.
English, Wm. H. (Surveyor)
Klinger, Jerry
North, Achilles
Thompson, Eldridge
PORTLAND—Curran, W. G.
Frost, A. J.
Griffith, Jay (Surveyor)
Stewart, R. P.
PRINCETON—Emmerson, G. M.
Watts, Edwyn, E.
REMINGTON—Alter, Lewis S.
RENSSELAER—Gamble, H. L.
Price, Myrt B. (Surveyor)
Thrawls, J. C.

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RICHMOND—Charles, Fred R. (City)
Howard, R. A. (Surveyor)
Hunt, Frank J.
RISING SUN—Keeney, Geo. (Surveyor)
Monroe, C. (Surveyor)
ROCKVILLE—Ott, Claude (Surveyor)
RUSHVILLE—Dill, Wm.
Herkless, A. R.
Stewart, A. L.
SALEM—Prow, John C.
SEYMOUR—Blish, E. W. (Surveyor)
Slagle, Geo. (City)
SHELBYVILLE—Isley, W. H.
Phillips, J. H. (Surveyor)
SOUTH BEND—Alward, Albert
Bryan, Fred A. (Gen. Mgr. Ind. & Mich. Elec. Co.)
Graves, Wm. E.
Hammond, A. J. (City & Hydraulic)
Keller, Fred W. (Surveyor)
Meighan, John F.
Moore, W. S.
Moore, Wm.
Whitten, Wm. M.
SULLIVAN—Bailey, Dich
Crowder, E. S. (Surveyor)
Cunningham, F. M. (Surveyor)
SYRACUSE—Newberry, S. B.
TELL CITY—Cooper, J. M. & Sons
TERRE HAUTE—Andrews, Wm. M.
Bertenshaw, B. A.
Brannon, Clifford
Burns, R. M.
Floyd, W. H.
Grimes, Geo. R.
Harris, W. H. (Surveyor)
Paige, W. R.
Scott, Chas.
Shaneberger, E. L.
Smith, H. C.
Sparks, Ralph
TIPTON—Crail, Ira F.
Gott, A. W. (Surveyor)
Van Buskirk, Robert
UNION CITY—Badders, W. H.
Gittinger, W. H.
VALPARAISO—Carver, Thos. H.
Lembke, Chas. F.
Rankin, Henry (Surveyor)
VEEDERSBURG—Burgner, Wm.
VEVAY—Danglade, Ernest
VINCENNES—Dunn, Thomas
Hershey, Jere
Hershey, Joseph
Nesbitt, B. F.
Rodgers, John
Spiker, J. S.
Williamson, E. C.
WABASH—Fowler, Wm.
Howe, C. E.
Woods, Robt.
WALKERTON—Leslie, Geo.
WARSAW—Hughes, Caleb
McCarter, G. W. (Surveyor)
Sellers, Chas. L. (Surveyor)
WASHINGTON—Faith, Edw. C.
Faith, Grant
Fritch, L. C.
Smiley, T. J.
WHITING—Bridge, W. F. (Surveyor)
Evans, Jas.
WILLIAMSPORT—Andrews, Morton C.
Carmichael, Wm. P. Co. (Consulting)
Gemmer, W. H.
WINAMAC—Boyles, John G.
Cox, Joseph
WINCHESTER—Bates, F. E. (Surveyor)
Hinshaw, J. E. (Surveyor)
Wright, Lee (Surveyor)
Yunker, C. C.
WORTHINGTON—Maxwell, C. A.

## IOWA.

AFTON—Chapin, E. P.
ALGONA—Lilly, A. J.
AMES—Ashbaugh, Lewis
Beyer, Samuel W.
Marston, A.
Spinney, L. B.
ANAMOSA—Whaten, J. F.
BEDFORD—Randolph, W. F.
BOONE—Chambers, H. A.
Kastberg, Karl C. (City)
Sweatt, Barton J. & Co.
BURLINGTON—Holbrook, Royal H.
Laubenfels, G. A.
Lawlor, Francis D. H. (Citizens' Water Co.)
Steyh, Wm., 1213 Summer
Young, N. S.
CEDAR RAPIDS—Brown, J. M.
Davis, Garret
Diserens, F. L.
Fatherson, T. W.
Gale, E. G.
Greene, Wm. J.
Holbrook, Royal H.
McCauley, Thos. Francis
Merridith, Geo. H.
Randall, P. F.
Smith, Percy Preble
Wardle & Yeager (Consulting, etc.)
Warriner, T. R. (Also Hydraulic, etc.)
Wilson, Chas. T.
Wynn, G. W. (Also Hydraulic)
CENTERVILLE—Berry, Wm. W.
Hall, Morton G.
Holbrook, P. S.
CHARLES CITY—Rozine, F. B.
CHEROKEE—Pingrey, J. S.
CLARINDA—Hartford, I. N. J.
CLEAR LAKE—Colby, Wm.
CLINTON—Chase, Chas. P.
Hart, R. C.
Iowa Engineering Co. (Also Hydraulic)
Schnell, August
COUNCIL BLUFFS—Etnyre, Samuel L. (City)
CRESCO—Richards, W. L.
CRESTON—De Lay, Theo. S. (& Surveyor)
DAVENPORT—Beuck, C. Henry
Boudinot, Allen R.
Boynton, George H. (Pres. Gen. Const. Co.)
Dauchy, Walter E.
Francis, Charles
Murray, Thos.
Worrall, Wm. B.
DENISON—Fink, E. T.
Huntington, Harry
DES MOINES—Budd, J. W.
Carss, Frederick N.
Carss, Jas.
DES MOINES BRIDGE & IRON Co., 9th & Tuttle. (See adv. index, end of book)
Dickinson, Warren
Eberhart, Robt. B. (Surveyor)
Koss, Geo. W.
McNutt, F. E.
Marsh Engineering Co. (Consulting)
Marsh, Jas. B. (Pres. Marsh Bridge Co.)
Morgan, Avery L.
Page, O. L. (Consulting)
Stark, N. M. & Co.
Stone, Lowell H.
Turner, J. W. Improvement Co.
Wagner, C. W.
DOW CITY—McHenry, Morris
DUBUQUE—Anderson, Eugene
Baumgartner, Chas. H.
Blake, C. E.
Brown, J. E.
Gniffke, Henry B.
Hyde, E. S. (Surveyor)
Ilg, Paul
Tschirgi, M. Jr. (Also Hydraulic, etc.)
EMMETTSBURG—Grout, Leroy
Moncreif, John
ESTHERVILLE—Callwell, R. B.
Herner, P. G.
FOREST CITY—Ambrose, J. H.
FORT DODGE—Reynolds, C. H.
GLENWOOD—Dean, Seth
GRAND JUNCTION—Thomson, Geo. M.
HARLAN—Peterson, P. I.
HAWARDEN—Heald, A. W.
IOWA CITY—Andrews, Launcelot W.
Cox, A. J.
Dey, C. T.
Ellsworth, G. H.
Fitzpatrick, T. J.
Lambert, Byron James
Magowan, C. S.
Raymond, Wm. G.
Schulze, J. O.
Sims, A. V.
Welch, H. S.
Woodward, S. M.
JEFFERSON—Bean, H. W.
KEOKUK—Cole, J. H.
Diver, J. B.
Meigs, Montgomery
Robertson, J. R.
Williams, L. E.
LE MARS—Myers, J. W.
LEON—Hollinger, J. M.
MANSON—Thompson, W. L.
MARION—Las, J. C.
Lary, J. H.
Parsons, S. N.
MARSHALLTOWN—Baughman, C. A.
Bremmer, Wm.
MASON CITY—Keerl, Hany D.
Wilson, F. P. (City)
MOUNT AYR—Ross, H. H.
MOUNT VERNON—Alden, F. S.
Stanley, O. E.
Williams, Sylvester N.
MUSCATINE—McCambell, R. H.
Ryan, J. J.
NEVADA—Allen, M. C.
Wells, John M.
NEW HAMPTON—Bowen, A. D.
Cotant, G. W.
NEWTON—Byers, W. F. (County Surveyor)
McMurray, Ray
Spencer, Wm. E.
NORTHWOOD—Dwelle, H. V.
OAKLAND—Burrows, J. F.
OELWEIN—Little, B. F.
OSAGE—Brown, C. D.
OSKALOOSA—Davis, J. E.
Shannon, J. A.
OTTUMWA—Allen, J. B.
Brady, J. T.
Burton, S. H.
Wyman, W. C.
POSTVILLE—Williams, Wilkes
RED OAK—Christie, Wm., Jr.
ROCK RAPIDS—Gilman, J. P.
ROLFE—Malcolm, Fred'k
SAC CITY—Martin, A. F.
SHELDON—Frisbee, Jerome
Wade, Frank E.
SIOUX CITY—Gaynor, Keyes C.
Holmvig, Martin Co. (Surveyors)
Lewis & Leeder
Skeels, Geo. Y. (City)
Wakefield, L. F.
SPENCER—Moore, Peter M.
SPIRIT LAKE—Johnson, J. M.
STORM LAKE—Harding, F. M.
Parrish, J. F.
TOLEDO—Holstead, W. H.
Sweatt, B. J.
WASHINGTON—Kyle, D. C.
WATERLOO—Newton, M. L.
Slippy, R. B.
Wilson, Chas. T.
WAUKON—Dayton, H. O.
Ratcliffe, John G.
WAVERLY—Hoover, H. S.
Robish, A. A.
WEBSTER CITY—McComb, Wm. T.
Quackenbush, J. E.
WEST LIBERTY—MacDonald, F. A.
WEST UNION—Neff, H. M.
WILLIAMSBURG—Blazier, Herbert E.

## KANSAS.

ABILENE—Romig, A. C.
ATCHISON—Giddings, Fred. (Eng. & Surveyor)
Woodworth, C.
BELLEVILLE—Ware, I. C.
BELOIT—Wilson, N. L.
CHANUTE—Wells, W. N.
COLUMBUS—Wallace, Joseph
COUNCIL GROVE—Harlan, T. B.
Manley, W. H.
EMPORIA—Brown, Matthew
Smith, A. J. (City)
ERIE—Cook, N. V.
Greene, Frank
EUREKA—Knudson, J. C.
FORT SCOTT—McElroy, Wm. (City)
Toles, E. E. (County Surveyor)
FREDONIA—Domblaser, Benjamin
Luckey, J. M.
GALENA—Duncan, W. H.
GIRARD—Christian, S. P.
Daniels, F. P.
GOODLAND—Long, D. A.
GREAT BEND—Markey, B.
Newcombe, S. A.
HIAWATHA—Beecher, C. P.
Marrion, T. J.
HOLTON—Jones, M. Z.
HUTCHINSON—Kelso, Mann & Kelso
McLane, G. L. (County Surveyor)
IOLA—Hough, Otto
KANSAS CITY—Barclay, Wm., 710 Minn. av
Ela, R. E., 2002 N 6th
House, Francis, 720 Ferry
Lasley, J. H. (County Surveyor), Court House
McAlpine, R. L., Portsmouth bldg
McClung, C. L., 2116 N 10th
Miller, J. C., 640 Washington
Stalnaker, W. H., 525 Ohio
KINGMAN—Benefiel, T. S.
Childs, W. H.
KINSLEY—Lewis, J. M.
Manuel, S. T.
LARNED—Babbitt, D. E.
McConnaughhay, J. D.
LAWRENCE—Bradley, A. C.
Duffey, Lloyd (County Surveyor)
McGrath, Wallace
Wheeler, Holland (City)

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LEAVENWORTH—Abry, H. E.
Barnes, D. M.
Hackbusch, H. C. F.
Parlin, M. D.
LYNDON—Runnells, L. S.
LYONS—Brown, Jesse
MARION—Case, Reese
MINNEAPOLIS—Powell, C. S.
NORTON—Newell, J. C.
OBERLIN—Coldren, E. M.
OLATHE—Pierson, Jesse
OSBORNE—Paul, Samuel
OSKALOOSA—Clark, E. E.
OSWEGO—Bayless, E. P.
Boggess, J. W.
Bushnell, A. B.
OTTAWA—Stucker, N. E.
Titus, A. C.
PAOLA—Roscoe, N. J.
PARSONS—Gaffey, M.
Kutz, Wm. H.
PHILLIPSBURG—Gray, J. M.
PITTSBURG—Glass, J. D.
Waite, C. G.
PRATT—Hickle, E. E.
Turner, Lindsay
ROSEDALE—Mitchell, F. A.
RUSSELL—Dollison, J. F.
Russell, W. G.
ST. JOHN—Smith, Sherman
SALINA—Farrar, Walter S. (County Surveyor)
Wakenhut, P. G.
SEDAN—Denick, A. J.
SENECA—Mathews, Mortimer
SMITH CENTER—Withington, N. H.
STOCKTON—Wells, M. J.
TOPEKA—Crawford, Walter (County Surveyor)
Morse, Chas. A. (Chief Engr. "Santa Fe" System)
Robinson, Albert A., 900 Tyler
Rogers, John P. (City)
TROY—Hills, H. A.
Marsh, F. P.
WICHITA—Jackson, H. L.
Wells, Bert C. (City)
WINFIELD—Bradley, J. M.
Cairns, Alexander
YATES CENTER—Tallman, L. N.

## KENTUCKY.

CATLETTSBURG—McDye, John
CLINTON—Atwood, T. L.
COVINGTON—Gunn, Wm. E.
Kennedy, Jos. D., 1547 Scott
Kennedy, T. H., College bldg
EARLINGTON—Atkinson, John B.
EDDYVILLE—Rogers, T. J.
ELIZABETHTOWN—Morgan, W. G.
FLEMINGSBURG—Hunter, J. W.
HARRODSBURG—Gentry, C. W.
HENDERSON—Eastern, R. S.
Kimmel, M. M.
Kimmel, S. H.
HOPKINSVILLE—Meecham Eng. & Construction Co.
LEXINGTON—Corbin, Joshua
O'Neill, P. P.
Pickett, Wm. D.
LOUISVILLE—Blackstaff Engineering Co.
Butler & Dolfinger, Norton bldg
Courtenay, Wm. H. (Chf. Engr. L. & N. R. R. Co.)
Dawley, H. A., 909 S 7th
Frazier, James L. (Consulting), Weissinger-Gaulbert bldg
Hancock, L. W., Lincoln Bk. bldg
Harris Engineering Co. (Mining), The Paul Jones
Hutchings, Wm. E., 824 Barrett av
Johnson, James M. (Pres. Louisville Bridge & Iron Co.)
Joseph & Joseph, Commercial bldg
Leiser, Theo. A. (Consulting)
Metzger, J. A., 107 W Green
Miller, Howard (& Surveyor), 125 E B'way
Milner, B. C. Sons Co., Lincoln Bk. bldg
Montford, Richard (Consulting Engineer L. & N. R. R. Co.)
Morris, Marshall
Payton, Jno. H. (Asst. to Pres. L. & N. R. R. Co.)
Peckinpaugh, C. L., 151 S 5th
Shaw, Granville W., 952 Cherokee rd
Young, R. H., 188 Chattsworth av
LUDLOW—Weaver, J. J.
MIDDLESBORO—Gunn, Wm. E.
Merwin & Richardson
NEWPORT—Glazier, Wm. L. (Engr. & Supt. of Water Wks.)
Lindsey, Geo. G., 7 E 4th
Morlidge, J. B., Court House
Morton, B. R., 9 E 4th
NICHOLASVILLE—Huggins, O. B.
OWENTON—Lee, B.
PROVIDENCE—Palmer, J. D.
ST. MATTHEWS—Fink, Rudolph
SPRINGFIELD—Roberts, Simpson
VERSAILLES—Hifner, M. B.

## LOUISIANA.

ALEXANDRA—Sylvester, I. W.
BATON ROUGE—Swart, B.
LAFAYETTE—Babin, E. S.
NEW IBERIA—Guilfonx, V. P.
NEW ORLEANS—Barnes, Thos. H. (United Fruit Co.), 321 St. Charles
Bell, Alonzo C., 226 Carondelet
Black, Alex. L., 323 Baronne
Blamphin, A. Merrick (Streets, Highways, etc.)
Borde, Geo. U. (Consulting), 226 Carondelet
Brown, Henry C., 400 City Park av
Calongne, Wilford F., Hibernia Bk. bldg
Coleman, John F. & Co. (Consulting), 226 Carondelet
Daney & Waddill (& Surveyor), 211 Camp
De Armas, Geo. (Surveyor), 341 Carondelet
Enderle, Edw. (Mining), 742 2d
Hardee, Wm. J. (City), City Hall
Harrod, Benj. M. (Consulting), 1637 Foucher
Huston, Richard C., Maison Blanche bldg
Kerr, Frank M. (Chief State Engineer La.), Cotton Exchange bldg
Lewis, C. U. (City Surveyor's Office), 624 Gravier
Lewis, Sidney F. (Chief Engineer N. O. Levee Board), Masonic Temple
Neville, Colon W. J., 921 Canal
Payne, F. T. (C. E. & Surveyor), Hennen bldg
Perrilliatt, Arsene, Cotton Exchange bldg
Phillips, Arthur, Hibernia Bk bldg
Peters, Samuel D., 416 Carondelet
Pilie, Edgar, 937 Orleans
Reed, Warren B. (Consulting), Hibernia Bank bldg
Riess, John, Hibernia Bank bldg
Seghers, D. E. & Son (Surveyors), 830 Canal
Stephens, James W. T., 225 Carondelet
Wood, Chas. W., 315 Carondelet
SHREVEPORT—Dortch, J. M.
Martin, W. E.
Wilson, Geo. R.

## MAINE.

AUBURN—Greenleaf & Doring
Swift, R. A.
AUGUSTA—Getchell, Wm. B.
Hill, Henry F., Allen bldg
BANGOR—Coombs, Philip H. (& Surveyor)
Hamlin, George H.
Marston, Frank L.
Vicery, Gilbert S.
BAR HARBOR—Lord, E. I.
BATH—Hayden, H. W. & Co.
BIDDEFORD—Dennett, W. S.
BOOTHBAY HARBOR—Baldwin, F. W.
BRUNSWICK—Crawford, J. W.
BUCKSPORT—Spofford, Parker
CALAIS—Gardiner, Benj. (& Surveyor)
CAMDEN—Crawford, M. T.
DEERING—Barbour, I. W.
ELLSWORTH—Wyman, Levi A.
FARMINGTON—Nichols, Walter
GARDINER—Danforth, Frederic
Hull, Frank E.
HOULTON—Burpee, Moses (Chf. Engr. Bangon & Aroostook R. R.)
LEWISTON—Jones, Jno. A.
Sawyer, Walter H. (Hydraulic)
Straw, John B.
MACHIAS—Sargent, Paul D.
MILLINOCKET—*Ferguson, H. S. (Chief Engineer, Great Northern Paper Co.)
NORWAY—Stevens, S. A.
OLD TOWN—Blanchard, Chas. G.
Bussell, S. J.
Hunt, Frank
Mullen, Charles W.
Sewell, J. W.
PATTEN—Robinson, Halbert G.
PORTLAND—Bennett, Raymond F.
Fenn, Chas. W.
Fernald, Geo. N.
Ilsley & Cummings
Jones, Jas. B.
Jordan, Edward C. (& Hydraulic), 31½ Exchange
Richardson, Percy H.
RIDLONVILLE—Goodwin, Burton W.
ROCKLAND—Tripp, O. H.
RUMFORD—French, Henry C.
RUMFORD FALLS—Mixer, C. A.
Nelson, Henry
Stratton, R. B.
SACO—Dennett, W. S.
Libby, Roland W.
SULLIVAN—Simpson, Chas. P.
WATERVILLE—Burleigh, John H.
Rockwood, Ralph H.

## MARYLAND.

ANNAPOLIS—Douw, John DeP.
BALTIMORE—Adams, Henry (Consulting, Hydraulic, M. E., Electrical, Sanitary & Heating & Ventilating), Calvert bldg
Adamson, Frank, 2803 Clifton av
Applegarth, C. Gault, 10 E Lex
Atwood, Wm. O. (Surveyor), 18 E Lexington
Banks, Daniel B. (Consulting), Md. Savings Bank bldg
Beadenkoph, Geo., Lexington & Liberty
Beatty, Philip A., 3616 Fairview av
Belden, Harry Austin, 103 Cheapside
Benthall, Wm., City Hall
Biays, Tolley A. & Co. (& Surveyors) 14
Bouldin, August & Co. (& Surveyors), Courtland & Saratoga
Brittain, Jos. G., 2823 Clifton av
Bush, Harry D. (V. Pres. & Mgr. Balto. Bridge Co.)
Cohen, Mendes, 825 N Charles
Connet, O. W., 308 E 23d, N
Coonan, Edw. V., Courtland & Saratoga
Dashiell, Benj. J. (Consulting), Equitable bldg
Disney, Thos. H. (Surveyor), 210 E Lexington
Duncan, Frank K., 1109 Harlen av
Ellis, Luke, 210 E. Lexington
Exal, T. P., 121 W 20th
Faust, Horace K., 224 S B'way
Fendall, B. T. (City), City Hall
Fisher, Janon, American bldg
Fox, Henry (Chf. Engr. Md. Dredging & Contr. Co.)
Galbreath, J. W. (Consulting), Continental
Gray, Newton M., 1608 Ruskin av bldg
Greiner Frank L. (Consulting), Continental bldg
Greiner, John E. Consulting), Continental bldg
Hambleton, F. H. (Consulting), 912 N Charles
Harris, J. M., 511 Park av
Hendrick, Calvin W. (Chf. Engr. Balto. Sewerage Comm.), American bldg
Herrman, H. E., Belair rd, Gardenville
Hood, Jno. M., Continental bldg
Hook, Chas. A. (& Consulting), 400 E Madison
Hopkins-Barnett Co., Vickers bldg
Hull, J. B., 1026 Catharine
Hutton, N. H., City Hall
International Engineering Co. (Consulting & Contracting), Md. Trust bldg
Isaacs, Jos. U., 205 St. Paul
Johnston, Edw. E., Gaither East bldg
Jones, Thos. G. (Mining), 1809 N Payson
Kenly, Wm. L., Lake Montecello
Kern, Robt., 821 Hamilton av
Kummer, Fred. A. (Consulting), 26 South
Lacy, Robt., 1630 Linden av
Lemley, Cassius McC., 1712 N Calvert
Lowndes-Mitchell Engineering Co. (Consulting), Law bldg
McLaughlin Bros. (Inc.) (Consulting), 915 Rolton
Martenet, S. J. & Co. (& Surveyors), 18 E Lexington
Maryland Geological Survey, John Hopkins University (Consulting)
Nemy, Henry G. (Consulting), Equitable bldg
Newton & Painter (Consulting), Professional bldg
Nichols Bros., 9 E Camden
Penniman & Fairley (Consulting), Marine
Phelps, Chas. S. Jr., City Hall Bank bldg
Quick, Alfred M., City Hall
Ramsay, H. Ashton, Continental bldg
Ravenscroft, Robt. A. (Surveyor), Custom House
Reding & Howard, 11 E Lex
Renshaw, Robt. L. (Marine Surveyor), 106 Jackson, pl.
Rutledge, J. J. (Mining), 3626 Cedar av
Sangmeister, Rudolph, 2200 McCulloh
Shanahan, Jno. N. (Vice-Pres. & Gen. Mgr. Wash'n, Balto & Annapolis Electric Ry. Co.)
Shirley, Henry G. Offutt bldg
Shirley, Jos. W., City Hall Annex
Smith Engineering Co. (Combustion Eng. & Inspectors), Equitable bldg
Stanley, Harvey, Continental bldg
Stillwell, L. B. (Consulting), Continental Bk. bldg
Stone, Wm. G., Professional bldg
Sudle, Emory & C. E., Equitable bldg
Sudler, Jno. S., The Preston
Sutton, J. Howard, 18 E Lex
Talbott, M. A. Co.

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Thomas, Raleigh C. (& Surveyor), 210 E Lexington
Topographical Survey City of Baltimore, City Hall Annex
Tustin, Septimus P. (& Surveyor), 18 E Lexington
Twamley, Wm. P. (& Surveyor), 102 E Lexington
United States Engineers' Office, Custom House
Varney, Wm. W. (Consulting & Contracting), Calvert bldg
Washburn, Frank S., Keyser bldg
Weir, Walden & Dukehart (Steam, Hydraulic & Electric), Continental bldg
Wrenshall, Jno. E., 1037 N Calvert

CATONSVILLE—Hazelhurst, G. B. (Consulting)
CUMBERLAND—Beall, L. L.
Brackett, Ernest F. (Mining)
Le Fevre, D. P.
Patterson, T. L.
Schriver, J. C.
DARLINGTON—Harlow, James H. (Chief Engineer Susquehanna Power Co.)
HAGERSTOWN—Evans, Richard
Ferguson, J. B. & Co. (& M. E.)
SALISBURY—Polk, W. U.

## MASSACHUSETTS.

ADAMS—Haskins, C. C.
Sayles, Chas. F.
AMESBURY—Titcomb, John P.
ARLINGTON—Adams, Henry S.
ATHOL—Caswell, Lilley B.
ATTLEBORO—Luther, W. J.
AYER—Hovey, Horace C.
BEVERLY—Berry, W. J.
Hammond, Frank W.
Porter, A. J.

BOSTON—Adam, James, 294 Washington
Adams, E. P., Exchange bldg
Adams, H. S., Ames bldg
Alexander, Geo. (Consulting), 60 State
Alderman, Clarence E. (With Horton & Hemenway, Contrs.), 683 Atlantic av
Allis, Solon M., 36 Bromfield
Ammidown, Albert M., Pemberton bldg
Amster, Nathan L. (Mining), 80 Devonshire
Arnold & Punchard, 6 Beacon
Aspinwall, Thos., 3 Hamilton pl
Aspinwall & Lincoln (Consulting & Surveyors), 3 Hamilton pl
Associated Mining Engineers Corporation (Mining), 50 Congress
Austin, Hy. H., 120 Boylston
Badger, W. O., 1117 Columbus av
Barbour, F. A. (Consulting), Tremont bldg
Barrows, H. K. (Consulting), 6 Beacon
Bates, Walter C., 94 Green, J. P.
Baxter, Chas. F., 6 Beacon
Bell, Louis (Consulting), 120 Boylston
Bickford, John H., 110 State
Blake, Percy M., Newtonville
Blum, A. (Mining), 110 State
Bowditch, E. W., 62 Devonshire
Brackett, Dexter, 1 Ashburton pl
Branch, Ernest W., Tremont bldg
Brooks, Frederick, 31 Milk
Brown, B. S., 161 Devonshire
Brown, H. H. (Consulting), 739 Boylston
Bryant, Hy. F., 88 Broad
Buhler, H. W. (Consulting), 251 Causeway
Butler, H. O., 88 Broad
Buss, Edward A. (Consulting), 85 Water
Cann, J. B. (Consulting), 45 Milk
Carmichael, Henry (Mining), 15 Exchange
Carpenter, Eugene (Consulting)
Carson, Howard A., 15 Beacon
Carter, Henry H. (Consulting), 95 Milk
Cassidy, A. S., 62 Devonshire
Castle Co. (Consulting), 170 Summer
Codman, J. S. (Consulting), 93 Broad
Crawford, Walter Howard, 60 Batavia
Crosby, Clifford F. (Consulting), 46 Cornhill
Davis, Edmund S., 15 Beacon
Densmore & Leclear (Consulting), 88 Broad
Dickerman, A. L. (Mining), 70 State
Dillaway, Chas. W., 70 Kilby
Dinsmore, Geo. F. (Consulting), Old South bldg
Dorr, Edgar S., 30 Tremont
Dow, L. B. (Consulting), 176 Federal
Dryden, G. W. (Mining), 258 Wash
Eldridge, Chauncey, 53 State
Eliss, Benj. W., 101 Milk
Ellis, Sam'l C., P. O. Box 1439
Eustis, A. H. (Mining), 131 State
Eustis, F. A. (Mining), 131 State
Eustis, W. E. C. (Mining), 131 State
Farnum, Lorng N. Co., Exchange bldg
Fay, Frederic H., City Hall
Felton, B. R. (Also Hydraulic), Tremont bldg
Fernald, Clarence T., 101 Milk
Forbes, Howard C. (Consulting), 88 Broad
Foster, Edward S., Pemberton bldg
Foster, Frank A., 34 School
Fraser, Robt. H. (Consulting), 88 Broad
French & Bryant, 334 Wash'n
Frizell, Jos. P., 75 Linden, Dor.
Fuller, A. D. (Consulting), 3 Hamilton pl
Fuller, Frank L., 12 Pearl
Fuller, Whitney Survey's Corporation (& Surveyors), 15 Court sq
Gannett, Chas H. (& Surveyor), 53 State
Gray, Arthur F. (Consulting), Exchange
Hall, Frederick P., 112 Water
Ham, Wm. H. (Consulting), Albany bldg
Hancocx, Benj. Jr., 1 Ashbourton pl
Hannan, Wm. E., 34 School
Harriman Bros., Exchange bldg
Harrington, Ephraim (Consulting & Advising), 20 Pewberton sq
Hawes, Louis E. (Consulting, Civil & Hydraulic), 101 Tremont
Heald, Simpson C., Jamaica Plain
Herrick, Henry A. (Hydraulic & Mill), 45
Hersey, F. M., 62 Devonshire
Hibbard, Thos. (&Treas., Geo. Lawley & Son Corp.), 696 E 1st, S B
Hodges & George (Consulting), 6 Beacon
Hodgdon, Frank W. (Chief Engineer Massa. Board, Harbor & Land Com.), State House)
Holman, Geo. U. G. (Consulting), 84 Gainsborough
Howe, Edw. W., 65 City Hall
Howland, Albert H., 110 Tremont
Hubbard, Allen & Hollis French (Consulting), 89 Beach
Huey, Geo. (Consulting), 7 Water
Hutchinson, W. Spencer (Mining), 15 State
Hyde, Danl. W. (& Surveyor), 15 Court sq
Jack, Geo. M., 62 Devonshore
Jackson, D. C. & Wm. B. (Consulting), 84 State
Jackson, Henry D. (Consulting), 88 Broad
Jackson, Wm. (City), City Hall
Johnson, Wm. S. (Sanitary & Hydraulic), 101 Tremont
Kazar, Jno. D. (Mining), 262 Wash'n
Kelly, Wm., 366 W B'way
Kenway, Percy N. (Consulting), 420 Boylston
Kimball, Herbert S. (Paper & Pulp Mills a Specialty), 46 Cornhill
Kimball, R. D. (Consulting), 14 Beacon
Lapworth, E. W., 14 Old Court House
Libby, Wilbur L. (Mining), Old South bldg
McClintock, John N. (Consulting), Old South bldg
McClintock & Woodfall, 15 Court sq
McInnis, Angus A., 95 Milk
McLean, Sidney W., 1196 Morton, L M
Macksey, H. V., 15 Court sq
Mahoney, W. F., 30 Tremont
Main, Chas. T. (Consulting), 201 Devonshire
Manley, Hy., 52 City Hall
Metcalf & Eddy (Consulting), 14 Beacon
Metropolitan Contracting Co. (Consulting), Mildram, H. C., Old Court House 95 Milk
Miller, Hiram A. (Chf. Engr. Charles River Basin Comm.), 367 Boylston
Milne, Alex. P., 88 Broad
Miner, Franklin M., Old Court House
Moore, Jas. & Co., 7 Water
Morrill, Geo. S., 44 Tremont, Dor
Moses, H. H., 17 Ellis Rox
Murray, Leon B., 46 Cornhill
Newman, Rolf R., 14 Beacon
Norris, Fred'k, 50 State
Packard, Geo. A. (Mining), 50 Congress
Palmer, Alfred T., 53 State
Palmer, John E. (Consulting), Old South bldg
Peabody, Cecil H. (Prof. Inst. Tech.)
Pearson, Chas. A., Exchange bldg
Perkins, Chas. C., 35 Old Court House
Perrigo, Oscar E. (Consulting), 6 Beacon
Peters, Edw. D. (Mining), 38 Perceval
Pierce, R. H. (Consulting), 35 Congress
Pierce & Barnes Co., 7 Water
Pillsbury, F. C., 126 Mass av
Power Equipment Co., Bd of Trade bldg
Pratt, D. W., 62 Devonshire
Pray, Thos., Jr. (Consulting), Bd of Trade
Puffer, Wm. L., 101 Tremont bldg
Purdy & Henderson, 101 Tremont
Quimby, Ralph A. (Chief Engineer & Surveyor), 53 State
Rabbin, John R. (Chief Engineer, Met. Park Comm.), 14 Beacon)
Rice, Jno. H., 15 School
Rice, L. Fred, Old South bldg
Rice, Ralph E., 101 Milk
Richards, Robt. H. (Mining), 491 Boylestom
Roberts, Edward B., Old South bldg
Rogers, Geo. Vincent (Consulting), 31 State
Rollins, James W., Jr., Beacon bldg
Rotch, Wm., 131 State
Savage, J. E., 14 River, L M
Schaffler, Jos. C. & Co., 73 Tremont
Semple, W. J. C., 23 Old Court House
Shailer, Robert A. (Consulting), 101 Tremont
Shaw, Edw. S. (Consulting, Bridges), 12 Pearl
Sheaff & Janstad (Consulting M. E. & C. E & Surveyors), 88 Broad
Shepard Engineering Co. (Consulting), 141 Milk
Sherman, C. G. (Consulting), 88 Broad
Sherman, C. W., 14 Beacon
Sherman & Moore, 88 Broad
Sherry, Frank E. (& Surveyor), 15 Court sq
Shoenbar, Jno. (Mining), 40 State
Silverman Engineering Co., 27 School
Smith, Sidney, 91 Maple W R
Snow, Jonathan P. (Chief Engineer B & M R. R. B.)
Snow & Humphreys (Paper & Pulp Mills a Specialty), 85 Water
Sonne, Otto, 34 School
Spalding, Fred'k P., City Hall
Spofford, Chas. M. (Prof. of C. E. Mass. Inst. of Tech.)
Sprague, Timothy W. (Consulting), 88 Broad
Stearns, Fred'k P. (Consulting), 1 Ashburton pl
Stearns, Herbert R., 108 Cushing av, Dor
Stone & Webster, 147 Milk
Street, Leonard L., 27 Salcombe, Dor.
Sweetland, Ralph, 141 Milk
Taylor, Lucian A. (Consulting), Tremont bldg
Thomas & Neall (Consulting), 12 Pearl
Thorpe, Lewis D., 46 Cornhill
Tinkham, S. E., City Hall
Torrey, Wm. F. (Consulting), 100 Purchase
Trumbull, C. E. Co., Tremont bldg
Tucker, Edward A. (Structural), 683 Atlantic av
Turner, Edmund K., 53 State
U. S. Geological Survey, 6 Beacon
Wadsworth, Geo. R. (Consulting), 19 Congress
Wales, F. C., 8 Beacon
Walworth, Arthur C. (Pres. Walworth Construction & Supply Co.), 100 Pearl
Webber, Wm. O. (Consulting), Exchange bldg
Wenstrom, Olaf (Consulting Mining), 53 State
Westinghouse, Church, Kerr & Co. (Consulting), Bd of Trade bldg
Weston, Robt. S., 14 Beacon
Wetherbee, Geo. H., 15 Ashburton pl
Wheeler, Wm. (Consulting), 14 Beacon
Whiting, Chas. W. (Consulting), 33 Broad
Whiting, Jasper (Consulting), Bd of Trade bldg
Whitman & Howard (& Surveyor), 220 Devonshire
Whitney, Chas. F., 15 Court sq
Whitney, Frank O., 25 Old Court House
Whitney, W. A., 15 Court sq
Whittle, C. L. (Mining), 50 Congress
Wilson, F. W. (Consulting), Bd of Trade
Wilson, Herbert A., City Hall bldg
Winslow, David H., Ford bldg
Winslow, Fred'k I., City Hall
Winther, Chas. A. G. (Consulting), 170 Summer
Wood, C. H. W. Co. (& Surveyors), 2380 Washington, Rox
Woodbridge, S. Homer (Consulting), 420 Boylston
Woodbury, C. J. H. (Consulting), 45 Milk
Worcester, J. R. & Co. (Consulting), 79 Milk

BRAINTREE—White & Wetherbee, Long's blk
BROCKTON—Chapman, Benj. R. (Asst. City)
Felton, Chas. R. (City), City Hall
Hayward & Howard, 15 Green
Norris, T. A. Machine Co. (M. E.)

BROOKLINE—Appleton, Chase B., Netherlands rd
Fitzgerald, Desmond (Consulting Hydraulic)
French, Alexis H. (Town), Town Hall
Lincoln, E. S.
Smart, Rich. A., 683 Washington
Stone, Everett E.

CAMBRIDGE—Bowker, E. F. (& Surveyor), 671 Mass av
Burke & Hughes (Consulting)
Hastings, Louis M. (City), City Hall

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Leavitt, Erasmus D., 33 Garden
Mason, Wm. A. & Son (& Surveyors), 631 Mass av
Martin & Wisner, 50 Highland av
Sanvens, Albert (Metallurgical)
Swain, Geo. F. (Prof. of C. E., Harvard Univ. & Consulting Engineer), Pierce Hall
Whiting, C. W., 68 Kirkland
CHELSEA—Carr, Jos. R. & Sons
O'Brien, James A.
CHICOPEE FALLS—Cobb, Frank P.
CLINTON—Thissell, Horace A.
CONCORD—Wood, Albert E.
DANVERS—bly, J. F.
DEDHAM—Smith, Nathaniel & Co.
Whitman, W. F.
Worthington, Erastus
DEERFIELD—Arms, Richard
FALL RIVER—Beattie, Roy H.
Corbett, Edward M. (& Surveyor)
Dyer, David H. & Son
Jackson, Ralph T. C. (Structural)
Henry, Wm. T.
Marvell, Edw. I. (&Surveyor)
Wolstenholme & Buffington (& Surveyors)
FITCHBURG—Bailey & Classon
Parker, Bateman & Chase
Raymond, George
FRAMINGHAM—Van Valkenburgh, J. J.
FRANKLIN—Tafe, Stephen C
GARDNER—Lee, E. M.
GREENFIELD—Barton, L. G.
Clapp & Abercrombie
Day, C. J.
Walcott, Charles T.
HAVERHILL—Evans, Robt. R.
Desmond, J. T.
Littlefield, J. M.
Spofford, Nelson
HINGHAM—Foster, Walter B.
HOLYOKE—Ellsworth & Howes (Consulting. Mfg. Plants, Water Supply, Sewage Disposal, Water Power, etc
Tighe, Jas. L. (City Engr. & Engr. Holyoke Water Works
HYDE PARK—Hammett, E. A. W (& Consulting)
Norris, C. G.
Richardson, Geo. L.
Suck, Adolph
LANCASTER—Parker, Harold
LAWRENCE—Franklin, John
Hale, Richard A. (Prin. Asst. Engr. Essex County)
Hudson, Chester E.
Littlefield, Chas. H.
Sjorstrom, Ivar L. (Vice-Pres U. S. Worsted Co.)
Slostrom & Franklin
LEE—Maclay, Wm. W. (Consulting)
LEOMINSTER—Gates, John W.
LOWELL—Bowers, George
Osgood, Orin F.
McNabb, Duncan
Smith & Brooks (& Surveyors)
Snell, Ora M. (& Surveyor), 295 Central
LYNN—Eastman & Bradford (& Surveyors)
Gay, Charles W. (& Surveyor)
Harris, I. K. (& Surveyor)
Leland, Geo. I.
Rogers, H. E.
MALDEN—Mirick, Geo. L.
Read, Robt. L.
Sargent, Albert
MANCHESTER—Raymond, C. Allen
MARLBORO—Bigelow, Jas. F. (Consulting)
MEDFORD—Goodwin, Jas. O.
Hodges, Gilbert (Consulting)
MELROSE—Stevens, Walter C.
METHUEN—Howe, Jos. S.
MILBURY—Garfield, Moses D.
MILTON—Churchill, W. W.
Hall, Fred'k P.
Sigourney, Harry H. W.
MONTAGUE—Clapp, Abercrombie, Turn's Falls
NEW BEDFORD—Coggeshall, R. C. P. (Supt. Water Works)
Drake, Albert B. (& Surveyor)
Metcalf, Frank M. (& Surveyor)
Williams, Wm. F. (City)
NEWBURYPORT—Dame, Luther
Langdon, G. W.
NEWTON—Blake, Percy M., 85 Wash'n N'ville
Sawyer, Edw.
Smilie, Edward S., 429 Centre
Thompson, Sanford E. (Consulting), 63 Hartford, N. H.
Wight, Willard W., N. C.
NORTH ADAMS—Emigh, Jno. H.
Gardner, Roswell
Locke, F. B. (Commr. of Public Works)
Smith, Frederick S.
NORTHAMPTON—Davis, E. G. & E. E.
Patterson, Malcolm D.
Thacher, L. M.
NORTH ATTLEBORO—Westcott, F. T.
NORWOOD—Smith, Geo. A.
PALMER—Ball, Edwin P.
Brainard, Wm. H.
Gager, Luther H.
PEPPERELL—Blood, Lorenzo P.
Tarbell, Geo. P.
PITTSFIELD—Barnes & Spaulding
Smith, Frederick S.
PLYMOUTH—Holmes, C. H.
Sampson, Levi R.
Sears, Walter H.
QUINCY—Branch, E. W.
Flood, Hamilton
Lawton, Perry
Tupper, Fred'k E.
Whitman, Herbert T.
RANDOLPH—Clark, Dexter
READING—Bancroft A.
ROCKLAND—Howland, Chas. W.
Torey, W. Archer
ROCKPORT—Pool, Calvin W.
Wires, H. P.
SALEM—Cook, Henry, 1 Central
Metcalf & Ashton
Nichols, Andrew
Putnam & Ricker
SANDWICH—Durham, Henry W. (Res. Engr., Cape Cod Constr Co.)
SAUGUS—Hancock, B. F.
Hawkes, Levi G.
SHARON—Safford, Edward S. (& Consulting)
SOMERVILLE—Bailey, E. W.
Elliott, C. D.
Goodrich, Wilbur F. (Consulting)
Sanborn, Frank B.
SOUTHBRIDGE—Moore, A. C.
Whittaker, Jno. A.
SPENCER—Craig, Geo. A. & Son
SPRINGFIELD—Adams, Arthur A.
Allen, Chas. W., 138 Marion
Allen, Geo. B., 98 Bay
Ball, E. B. & E. P., 122 Florida
Barker, J. K., 332 Main
Durkee, White & Towne (& Surveyors), 17 Hampden
Green, Samuel M. (Consulting), 318 Main
Merrill, Geo. N. & Co. (Consulting), 274 Main
Slocum, C. M. (City), 43 Bridge
Tinker, Clifford A., 351 Main
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Van Ornum, John L. (Prof. C. E. Wash'n Univ.)
Van Sant, R. L., 421 Olive
Von Schrenk, Fulks & Kammerer (Consulting), Missouri Botanical Gardens
Wade, James R., Third Nat'l Bank bldg
Westinghouse, Church, Kerr & Co., Security
Wheeler, H. A. (Mining), 510 Pine bldg
Widmer, A. J. (Consulting), Wright bldg
SAVANNAH—Hine, W. G.
SEDALIA—Yeater, Merritt
Zoll, C. H.
SPRINGFIELD—Culler, G. W. (& Surveyor)
Hollenback, M. M.
Phillips, C. E.
Reed & Heckenlively
SULPHUR SPRINGS LANDING — Stephens,
WARRENSBURG—Zoll, C. H. Clinton F.

## MONTANA.

ANACONDA—Tobin, Pat'k
BOULDER—Cralle, R. M.
BOZEMAN—Frost, Frank (Mining)
Robertson, J. M.
Thorpe, C. M.
BUTTE—Baker, T. T.
Baker & Wilson (Mining)
Bard, Darsie C. (Mining)
Clark, H. S. (Mining)
Corry, Arthur (Mining)
Davis, J. E.
Frank, Albert
Harper & Macdonald (Mining)
Knight, A. B. (Mining)
Leggatt, Alexander (Mining)
Leggat, J. B. (Mining)
Mitchell, F. S. (Mining)
Munroe, A. F.
Pennington & Barker (Mining)
Vail, R. R.
Wilson, E. H. (Civil & Mining)
Winchell, H. V. (Mining)
DEER LODGE—Davis, H.
DILLON—Metlen, G. R.
FORT BENTON—Merrifield, A. W.
GREAT FALLS—Bird, G. W.
GOULD—Schiertz, F. A. (Mining)
HAMILTON—Kippen, M. D.
HELENA—Atwater, Richard M., Jr. (Mining)
Brown, G. L. (Mining)
Brown, Wilton G. (Consulting)
Dickerson, Winchester (Mining)
Farmer, J., Court House
Gerry, Martin A., Jr. (Chf. Engr. Mo. River Power Co.)
Helmick, C. W. (Mining),
Hovey, A. S. (Mining)
Ropes, L. S. (Consulting Mining)
Sanders, Wilbur E. (Mining)
Sizer, F. L. (Consulting Mining)
Wickes, G. T. (Mining)
Word, William F. (Mining)
KALISPELL—Gibson, J. B.
Jaqueth, A. L.
LEWISTOWN—Hogeland, F. A.
LIVINGSTON—Crookes, S. H.
MILES CITY—Flynn, W. P.
Scheetz, Geo.
MISSOULA—Dorman, E. S. (Mining)
Finkelnburg, O. C.
Orr, Newton
PHILIPSBURG—Cralle, Edw. A.
Donyes, C. F.
RED LODGE—Taylor & Kimball (Mining)

## NEBRASKA.

FAIRFIELD—Pricket, C. M.
FALLS CITY—Crook, J. A.
FREMONT—Andrews, J. W.
GRAND ISLAND—Baldwin, C. A.
HASTINGS—Heartwell, C. A. Co. (Surveyor)
KEARNEY—Wilson, Jas.
LINCOLN—Bates, G. W.
Bing, E. R.
Dobson, Adna (City)
Grant, Wm.
Hurtz, Theo. E.
Nicholson, Hudson H. (Consulting)
Sargent, C. H.
Walsh, Geo. S.
Walton, James P.
NEBRASKA CITY—Munn, A. M.
OMAHA—Arend, A. C. (Consulting), Brandeis
Ayerigg, W. A., Bee bldg bldg
Bleckensderfer, L. (Consulting), Bee bldg
Collins, G. J. S. (Consulting), Bee bldg
Edquist, P. A., N. Y. Life bldg
Howell, R. B., Karbach blk
Jamieson, D. F., N. Y. Life bldg
Koenig, A. C. & Co., Bee bldg
McEathron, W. J., 3119 Sherman av
Rosewater, Andrew, City Hall
Ross, C. P., 627 Paxton blk
Shaw, Thomas (& Surveyor), Paxton bldg
Stubbs, J. J., 1st Nat'l Bank bldg
Towl, R. N., Bee bldg

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PLATTSMOUTH—Hilton, E. E.
STANTON—Beard, J. G.
YORK—Codding, A. B.

## NEVADA.

GOLDFIELD—Baxter, H. (Mining)
Todd, Robert B. (Mining)
Wilkinson, C. D. (Mining)
Wilson, Elwood J. (Mining)
PIOCHE—Abbott, Jas. W. & Chas. W. (Mining)
RENO—Arnett, W. D. C. Co. (Mining)
Boardman, Horace P.
Boyle, Emmet D. (Consulting Mining),
TONOPAH—Jackson, D. H. (Mining)
VIRGINIA CITY—Derby, Chas. C. (Mining)

## NEW HAMPSHIRE.

BERLIN—Bryant, E. S.
CHARLESTON—Webber, Sam'l (Hydr. & Dyn. Engr.)
CONCORD—Howe, W. B.
DOVER—Grover, William A.
Hayes, Charles W.
Jaynes, S. Foster
Jenkins, S. S.
GOLDFIELD—Todd, Boerth B. (Mining)
KEENE—Wadsworth, Samuel
LACONIA—Berry, Forrest G.
Perley, Lewis S.
Sleeper, Chas H.
LANCASTER—Williams & Davis
LEBANON—Downs, Charles A.
LITTLE BOAR'S HEAD—Jaques, Wm. H. (Pres. Hampton Water Works Co.)
LITTLETON—Gile, Ray T.
MANCHESTER—Allen, George H.
Dudley, Arthur (Civil)
Lord, Samuel J. (City)
Walker, Chas. K.
Young, John P.
NASHUA—Dean, A. W.
Hathaway, E. O.
Johnson, E. J.
PETERBORO—Jones, E. W.
Smith, E. M.
ROCHESTER—Ames, W. M.
TONOPAH—Kerr, Mark B. (Consulting)
WHITEFIELD—Carleton, Sprague

## NEW JERSEY.

ALLENHURST—Gumaer, Edward B.
ARLINGTON—Horstman, F. W. & Co., 410 John (E. N. B.)
Logan, W. S., 115 Midland av.
ATLANTIC CITY—Ashmead & Hackney (& Surveyors), Bartlett bldg
Clark & Thompson
Craig, Wm. A. (& Surveyor), Bartlett bldg
Nelson, A. H. (& Surveyor), Bartlett bldg
Rightmire, E. D. (& Surveyor), Bartlett bldg
Riley, Arthur W. (Surveyor & Consulting),
Risley, Walton Bartlett bldg
BAYONNE—Clarkson, Walter L.
Morse, Geo. F., 601 Ave E
BEVERLY—Stokes, Charles
BLOOMFIELD—Olmsted, A. H., 24 Broad
BOONTON—Godeffroy, R.
Van Dugen, Lewis.
BORDENTOWN—Hutchinson, John H.
BOUNDBROOK—Herbert, Harry (Consulting)
BRIDGETON—Sharp, Walter M. (City)
BURLINGTON—Conrad, Wm. R. (Inspection, Rails, Bridges, Materials, etc.)
Probasco, Seldon R.
BUTLER—Roome & Lamscha (Surveyor)
CAMDEN—Farnham, Levi E.
Haines & Sherman, Temple bldg
Kain, Edwin Co. (Consulting), S N 8th
King, Arthur C. (Surveyor), 305 Market
Knowles, Wm. H., 111 N Delaware av
Lennon, James F., 361 Market
May, De Courcy (Pres. N. Y. Ship Bldg. Co.)
May, Edmund (Surveyor), 301 Market
Runge, W. C. & Co., 1200 B'way
Thomson, Earl (& Surveyor), 301 Market
CLIFFSIDE PARK—McClave & McClave
CRANFORD—Vreeland, C.
DOVER—Jenkins, Geo. E.
Millen, C.
EAST ORANGE—Reimer, Wm. H. V., 28 N Maple av
Swinburne, Geo. W., 61 Whittlesey av
Torrance, Wm. M., 63 Sanford
ELIZABETH—Bailey, T. S., 326 Union av
Baner, J. L., 130 Broad
Luster, W. H. Jr. (City Surveyor), City Hall
Meyer, Oswald L. P. (& Surveyor), 208 Broad
Quien, Louis, 251 Elizabeth av
Quien, Louis Jr., 251 Elizabeth av
ENGLEWOOD—Birdwhistle, H.
Cass, Willard
Eckerson, Chas.
Serviss & Van Blarcon
FLANDERS—Force, Cyrus G.
FLEMINGTON—Blaise, Jno.
FORT LEE—Earle, R. D., Jr.
GLASSBORO—Schute, Harry C. C. (Surveyor)
GLEN RIDGE—Tyson, Anderson H.
HADDONFIELD—Remington, J. C. (Borough Engrs.)
HACKENSACK—Campbell, Frank
William, A. W. (& Surveyor)
Earle, Ralph Jr. (County Eng.)
Lozier, Lemuel
HACKETTSTOWN—Dellicker, A. H.
HARRISON—Logan, Wm. S., 109 Midland av
HOBOKEN—Brush, Chas. B. & Co.
McCann, Thos. H.
Pierson & Goodrich
Ray, Geo. J. (Chief Engineer D. L. & W. R. R. Co.)
Whittemore, W. F.
HUNTSVILLE—Gahagan, W. H. (Consulting)
IRVINGTON—Casey, I. J., Jr., & Co. (Surveyors)
JERSEY CITY—Harrison, Dunham & Earle & Consulting), 17 Exchange pl
Higgins, Chas. H., 15 Exchange pl
Hopper, Chas., 15 Exchange pl
Insley, Edward W., 402 Central av
Latey & Slater, 13th
Leahy & Wasser (Consulting), 1 Montgomery
Payne, John C., 15 Exchange pl
Van Keuren, Chas. A. (Chief Engineer Board of St. & Water Com.)
Waterhouse, John, 243½ York
KEYPORT—Sproul, C. F. & H. S.
LAKEWOOD—Fielder, Benj. H. Jr, Main
LONG BRANCH—Seaman, J. W.
Throckmorton, E. E.
MADISON—Gardner, Geo. W.
MAGNOLIA—Albertson, J. J.
MANALAPAN—Forman, Peter
MAHWAH—Olney, Lafayette (Consulting)
MONTCLAIR—Crane, F. W., 467 Bloomfield av
Owen, James, 467 Bloomfield av
Owen, K. D.
Leffingwell, F. D., 467 Bloomfield av
MOORESTOWN—Borton, Uriah
MORRISTOWN—Brinley, Jno. R.
Howell, Edward (City)
Pitney, Frederic V.
Smith, Fred'k S.
MOUNT HOLLY—Lippincott, Joseph
NEW BRUNSWICK—Atkinson, Asher
Chandler & Duane
Serviss, David
Tice & Rightmire
NEWARK—Baechlin, Ernest, 45 Clinton
Borrie & Kreiner (Surveyors, etc.), 788 Broad
Bracken, John G., 776 Broad
Conlon, Frank P., 742 Broad
Field, Wm. P., 763 Broad
Francisco, John H. (Surveyor), 751 Broad
Gardner, G. H. (Surveyor, etc.), 189 Market
Gregory, J. H. (Consulting), 92 Park pl
Gray, Henry & Son, Union Bank bldg
Hallock, James (Chf. Engr's. Asst., Dept. of Public Works), City Hall
Halsey, E. R. (Engineer & Surveyor), 164 Market
Harrison, E. W. (Consulting), 92 Park pl
Heller, John W., 738 Broad
Hickok, Henry A. (Consulting), Union bldg
Hooper & Co., 122 Market
Kempf, Edward G. (Surveyor), 164 Market
Kinsey, Wm. A., 22 Clinton
Kreiner & Borrie (Surveyors), 788 Broad
Lehlbach Bros. (Surveyors), 196 Market
McConnell, Chapman & King, 45 Clinton
McMurray & Pulis, 22 Clinton
Ogden, F. H. Co. (Consulting), 11 Clinton
Owen, James (Consulting), 196 Market
Rankin, Edward S., 751 High
Runyon & Carey (Consulting), 122 Market
Shepard, F. T. (Surveyor), 749 Broad
Sherrered, Morris R., City Hall
Simpson, John T. (Consulting), Union bldg
Smith, K. G. (Consulting), 857 Broad
Streiff, Abraham, 45 Clinton
Van Duyne, Harrison & Son (Surveyors),
NEW LISBON—White, Jos. J. 800 Broad
ORANGE—Baldwin, Menick R., 4 Hawthorne
Crane, Fred T., 252 Main
Mead & Taylor, 242 Main
Olcott, Geo. P., 252 Main
Reimer, W. H. V., 249 Main
PASSAIC—Holliday, C. W.
Peterson, Anton
Strange & Doolittle (Consulting)
Wise & Watson (Consulting)
PATERSON—Ferguson, John W., 152 Market
Ferguson, Wm. & Son, United Bank bldg
Gardner, Edmund L. (Pres. Jersey City Water Supply Co.), 158 Ellison
Godefroy, R., Colt bldg
Harder, Harold J., 692 14th av
Jewell Engineering Co., 140 Market
Kronauer, Max (Consulting), Colt bldg
Van Winkle, Franklin, Colt bldg
Watson Flagg Engineering Co., 88 Ellison
Whitmore, W. L., Paterson Sav. Inst. bldg
Zoerner, R. P., Exchange bldg
PEMBERTON—Earl, Frank (Surveyor)
PERTH AMBOY—Larson, Morgan F. (County Engr.)
Mason & Smith
PHILLIPSBURG—Rowell, Robt.
Smith, Jas. E.
PLAINFIELD—Dunham, F. A. (Consulting)
Gavett, Andrew J.
Hood, Richard H.
Hubbart, F. J. (Consulting)
Mason, Francis, 99 Rockview av
Meeker, Robt. A. (Consulting)
Vail, Ephraim M.
Van Emburgh, H. C. (Consulting)
PRINCETON—McMillan, Chas. (Prof. of C. E. Princeton Univ. of Cons.)
Wilson, Woodrow (Pres. Princeton Univ.)
RAMSAY—Wanmaker, R. (Surveyor)
RED BANK—Cooper, George
Osborn, Frank
Taylor, Geo. McC.
Throckmoron, J. W.
RIDGEWOOD—Fountleroy, E. B.
Marshall & Loughborough
Thompson, W. L.
RIVERTON—Parry, Howard
Thatcher, Walter A.
ROSELLE—Higgins, J. W.
James, Geo. P.
RUTHERFORD—Sloat, Geo. V.
SALEM—Miller, Josiah (Surveyor)
SOMERVILLE—Doughty, Joshua
Lane, J. R. S.
SOUTH ORANGE—Duncklee, John B. (Consulting)
Taylor, Lewis P.
SUMMIT—Siler, Carl J.
TENAFLY—Pond, Henry O.
TRENTON—Albert, Reuben, 45 Bayard
Eppele, F. J.
Franz, Milton Co.
Haven, C. C.
Haven, R. C. (Surveyor)
Hewitt, Chas. E.
Moses, Frank D.
Nelson, Alfred B.
Nevius, Jno. C. (Surveyor)
Spilsbury, Edmund G. (Consulting)
Swanee, A. Jr.
Yard, G. B.
VAILSBURG—McMurray, Eugene A.
WEEHAWKEN—Bond, Geo. W. Jr., 71 King av
WENONAH—Cattell, Wm. C. (Surveyor)
WESTFIELD—Marsh, Jno. M. C.
WEST HOBOKEN—Maulbeck, S., Dodd
Vahle, E., 527 Walnut
White, Albert, 527 High
WEST NEW YORK—Darling, Ord J.
WESTWOOD—Hering, H. G. Jr.
WOODBURY—Carte, William M.
Ladd, Samuel H.
Thonvas, David & Co.

## NEW MEXICO.

DEMING—Clifford & Patterson (Mining)
LAS VEGAS—Holt & Hart
RATON—Turner, Orville H. B. (Chief Engineer St. Louis, Rocky Mt. & Pacific Ry. Co.)
ROSWELL—Reed & Wilson
SILVER CITY—Labelle, Henry F. (Consulting, Hydraulic)
SOCCORRO—Brown, Cony F. (Mining)

## NEW YORK.

ALBANY—Andrews, Horace, 125 Lancaster
Devendorf, La Motte K., 68 State
Hill. Wm. R. (Consulting), 53 State
Hilliard & Parsons (Consulting)
Horton, Theo. (Chf. Engr. N. Y. State Dept. of Health)
Marden, Walter R. (Chf. Engr. United Constr. Co.), 467 B'way
Melius, Walter, 59 City Hall
O'Hara, Jno. J.
Parsons, Henry C., Tweddle bldg
Roberts, Herschel, 112 State
Robinson, Frank A.
Scheuermann & Peck
Sims, Clifford S. (Vice-Pres. & Gen. Mgr. Del. & Hud. R. R. Co.)
Stowell & Cunningham, 51 State
Twilling-Marshall Co.
Wooley, W. Thos. (Consulting), Auburn

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ALBION—Hazard, Schuyler
AMITYVILLE—Darling, Chas. W.
AMSTERDAM—Bennett, Chas. J., 90 Division
Cleveland, H. B., 18 Storrie
Crane, Francis E.
De Graff, H. W., 298 Guy Park av
Moak, Saml., 251 Guy Park av
ANDES—Kelley, James A.
AUBURN—Austin, Dewitt F.
BALLSTON SPA—Geer, H. M.
BATAVIA—Cone, Hobart B.
Holmes, J. W.
BINGHAMTON—Ackerman, R. McK.
Baird, S. M., McNamara blk
Giles, Jno. A.
Monroe, S. E.
BROADALBIN—Judson, Wm. P. (Consulting)
BROOKLYN—(See N. Y. City, Borough of Brooklyn)
BUFFALO—Bardol, F. V. E. & Co., D. S. Morgan bldg
Bassett, Geo. B. (Consulting, Civil & Hydraulic), 346 Elmwood av
Baxter, A. E. Eng. & Appraisal Co., Ellicott sq.
Bierbaum, Christopher (Consulting), Prudential bldg
Buffalo Eng. Co., Erie County Bank bldg
Busch & Percival, Brisbane bldg
Calhoun, W. A. (Consulting), White bldg
Conkling & Boardman (Consulting), Ellicott sq
Davey, Marsden, 68 Michigan
Diehl, Geo. C. (Consulting), Ellicott sq
Edmonds, Geo. W., German Ins. bldg
Ellsworth Bros., 50 W Eagle
Fell, Chas. F., 139 De Witt
Field, George S., 452 Delaware av
Fields, Samuel J., 632 Ellicott
Greene, Francis V. (Pres., Niagara, Lockport & Ontario Power Co.), Fidelity bldg
Guthrie, Edward B. (Chf. Engr., Grade Crossing Comm.), 436 Ellicott sq
Hanavan, Eugene C., 398 Louisiana
Hayes, Edmund. Fidelity bldg
Kielland, S. Munch, Ellicott sq
Knapp, Louis H. (& Hydraulic), Ellicott sq
Krause, Albert & Son (& Surveyors), Builders' Exch
Lupfer & Remick, Ellicott sq
Moore, Chas. G., Ellicott sq
Morse, Chas. M., Erie Co. Bank bldg
Reedpath, Robt. J., Builders' Exch
Ricker, Geo. A., 702 Ellicott sq
Rogers, Thos. J., 17 Whitney pl
Sikes, Geo. R., 1095 Ellicott sq
White, Wm. J., Mutual Life bldg
Wing, Fred'k K., White bldg
Witmer, Jos. F., Chapin blk
Wright, Josiah P., Fidelity bldg
CAMBRIDGE—Watkins, Thos. L.
CARTHAGE—Brownell, Jas. P.
CATSKILL—Kittrell, James W.
Van Orden, Chas. H.
CHAZM—Warner, Geo. H.
COHOES—Kennedy, Jno. H.
Van Auken, D. H.
CORNING—Hoyt, S. T.
CORTLAND—Allen, Henry C.
DANSVILLE—Scovill, Edward T.
DUNKIRK—Hequembourg & Avery
Morrissey, J. P.
Newton, Geo. M.
ELMIRA—Bovier, Asa P.
FISHKILL—Fouquet, John D.
GENEVA—Brennan, James W.
Church, C. T.
Hayes, Stanley W. (Pres. Hayes Track Appliance Co.)
GLEN COVE—Brown, Wm. H.
GENS FALLS—Philo, Hiram
Slade, Geo. P.
West, H. M.
GLOVERSVILLE—Comstock, F. L.
GOSHEN—Jonas, M. & Son
Levison, B. W.
Mills, V. K.
CROTON—Landon, E. A. (Sec. & Treas, Begent Lbr. Co.)
HAVERSTRAW—Allison, Calvin T.
Wilson, Lavalette
HEMPSTEAD—Titus, Edw. S.
HERKIMER—Wood, D. C.
HUDSON—Lee, Wellington B.
HORNELL—Parsons, Robt. S. (Supt. Susq. & Tioga Divs., Erie R. R.)
ILION—Ringwood, Jas. D.
IRVINGTON—Katte, Walter (Consulting)
ISLIP—Smith, E. R.
Whitman, S. S.
ITHACA—Carpenter, Rolla C.
Crandall, C. L., Prof.
Crandall, K. P.
Hayes, Edward (Consulting), 113 Dryden rd
Ogden, Henry N. (Prof. of Sanitary Eng. Cornell Univ.)
JAMESTOWN—Bently, C. Eugene
Burns, Edw. C.
Jones, Clyde G.
JOHNSTOWN—Miller, Jas. W.
Miller, Wm. R.
KEESEVILLE—Harkness, J. Warren
KINGSTON—Bell, Geo. N.
Codwise, Edward B.
Ellison, Geo.
Hallinan, John F.
Klingberg, Wilgott
LIBERTY—Cantine, N. S.
LITTLE FALLS—Babcock, Stephen
Lansing, E. T. E.
LOCKPORT—Cook, Wm. B.
Cornes, Chas. H.
Dox, Isaac
Frehsee, Julius F.
Frehsee & Olmsted
Gooding, Stephen F.
LONG ISLAND CITY—(See New York City, Borough of Queens)
MALONE—Young, Gilbert
MASSENA—Flaherty, P. B.
Rickey, Jas. W. (Chief Engineer Long Sault Development Co.)
MIDDLETOWN—Everson, C. J.
Smith, Chas. H.
MOUNT VERNON—Coleman, G. F., 188 Archer av
Hammond, Chas. A., 301 S 4th av
Hufnagel, B., 140 E 1st
NEWBURGH—Garrison, Everett
NEW HARTFORD—Scripture, Arthur M.
NEW PALTZ—Kinsley, Thos. P.
NEW ROCHELLE—Crosby, Horace
De Luze & Emmet
Haskell, C. S.
Van Alstyne, Henry A.
Van Etten, L. E.
Wilson & English Constr. Co.
Wilkes, J. K.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Allen, Austin E., Municipal bldg
Asserson, Henry R., 495 6th
Barker, Herbert J., 678 Mansfield pl
Bartlett, F. L. (& Surveyor), 188 Montague
Bartlett, H. L. (& Surveyor), 189 Montague
Berry, Geo., Municipal bldg
Bischof, Geo. J., 471 Ocean Parkway
Boomer, Geo. B., 142 Grant av
Bristow, Walter M. (Consulting), 44 Court
Byrne, A. T., 350 Fulton
Byrne, James J. (Surveyor), 26 Court
Carey, Jas. F. (& Surveyor), 543 Dean
Carter, Alfred E., 200 Joralemon
Cassidy, John A., Municipal bldg
Clark & Stowe, 221 Greenpoint av
Clausner, Otto, Municipal bldg
Crocker, Calvin I., 498 5th
Debevoise, Wm. G. (& Surveyor), 1158 Myrtle av
Dennington, F. C. (Surveyor), 200 Montague
Drake, Fred'k A., Municipal bldg
Ellison, Wm., 346 Fulton
Faribault, P. A., 375 Fulton
Farley, Philip P. (Pres. Jamaica Bay Improvement Co.), 180 Montague
Fitch, Chas. L., 253 Throop av
Folger, E. P., 377 Jefferson av
Ford, Wm. G. (Consulting), 188 Montague
Fort, Edwin J. (Chf. Engr. of Sewers), 48 E 17th
Gahagan, Walter H. (Constructing), 189 Montague
Goodman, Jos., Municipal bldg
Gray, John C., Municipal bldg
Griffin, Wm. J. (Surveyor), 111 6th av
Griffiths, John D., Municipal bldg
Grimm, Caarl R., Standish Arms
Hammond, Geo. T., 156 Berkeley pl
Hassan, A. A. (Consulting Mining & Geologist), 61 Waldorf Court
Horwedel, George J., Municipal bldg
Jacobsen, Eldred E., Municipal bldg
Jourdan, Jas. H., 262 Henry
Kelly, Olaf M., 84 B'way
Koop, Fred'k W., 26 Court
Laase, Wm. F., 184 Maple
La Marsh, Jos. J. B., 367 Fulton
Litchfield, P. (Consulting), 23 Flatbush av
Lobo, Carlos, Municipal bldg
Logan, F. J., 285 De Kalb av
Ludlam, Austin (Surveyor), 189 Montague
McColl, Ernest N., Municipal bldg
McElroy, Samuel A. (& Surveyor), 26 Court
Maloney, Jas. E. (& Surveyor), 1091 Atlantic av
Martin, Kingsley L., 220 B'way
Menden, Wm. S., 85 Clinton
Meserole City Surveying Co., W'msburg Bridge Plaza
Meserole, Walter M. (& Surveyor), 2511 Atlantic av
Messenger, Wm. H., Municipal bldg
Middleton, Jno., 2511 Atlantic av
Moyer, H. I. (Contracting), 375 Fulton
Murphy, Alex. D. (& Surveyor), 44 Court
Murphy, Francis P., 66 Court
Nostrand, Peter E. (& Surveyor), 235 Stuyvesant av
Olmsted, Hy., Jr., 553 8th
Page, Raymond, 66 Court
Palmer, Noyes F. (Surveyor), 150 Snediker av
Pollock, C. D., 531 E 23rd
Potter, Herbert L., 511 8th
Rhame, E. D., Municipal bldg
Schermerhorn, Richard, Jr., 183 Prospect pl
Schmidt, Herman H., Municipal bldg
Schmitt, Jacob, Municipal bldg
Smith, Chas. W., 393 Lewis av
Skilton, George S., Municipal bldg
Smyth, A. F. (Consulting), 11 McKibbin
Spear, Walter E., Municipal bldg
Strachan, Jos., 352 Putnam av
Sullivan, Chas. P., Municipal bldg
Swezey, Edwin C. (Surveyor), 38 Court
Tenney, Willis R., Municipal bldg
Tibbals, Geo. A. (Secy.-Treas. Cont. Iron Wks.)
Tilley, J. Alfred, 84 B'way
Tillson, Geo. W., 91 Midwood
Tremper, Walter L., 192 Montague
Tuttle, Arthur S., 559 5th
Van Buren, Robt., Municipal bldg
Van Buskirk, Clarence R., 367 Fulton
White, E. Sherman (& Surveyor), Municipal
Whitley, F. N., 215 Fulton bldg
Williams, R. L. (& Surveyor), 189 Montague
Wilson, Jas., 200 Joralemon
Wolfe, Christian J., 525 58th
Wuerz, E., 197 Havemeyer
Zimmer, P. H. (Consulting), 94 Lexington av

### Boroughs of Manhattan & Bronx.

NEW YORK—Abbott, Edw. L. (Consulting), 71 B'way
Abeel, David G., 29 B'way
Adams, Geo., 428 E 133d
Adams, H. M., 3rd av c E 177th
Ainis, W. I., 45 B'way
Alamo Const. Co., 217 W 125th
Alison, Thos. H., 149 B'way
Allen, Calvin H., W 72d
Allen, Kenneth (Engr. Met. Sewerage Com. of New York), 17 Battery pl
Allen, W. W. (Consulting & Mining), 42 B'way
American Institute of Mining Engineers (Mining), 29 W 39th
Amsterdam Corporation, 165 B'way
Anderson, Jas. P., 50 Church
Andrew, H. S. (Consulting), 52 B'way
Angle, Geo. W. (Consulting), 60 New
Archer, Geo. F. (Consulting), 39 Cortlandt
Armstrong, C. G. (Consulting), 149 B'way
Arnold, Bion J. (Consulting), 154 Nassau
Arnott, R. F. (Consulting), 95 Liberty
Atkinson, Asher (Consulting), 1 Madison av
Atwater, Linton & Atwater (Mining), 52 B'way
Aus, Gunxald (Consulting), 160 5th av
Babcock, W. S. (Consulting). 17 Battery pl
Bacon, F. T. H. (Consulting), 30 Church
Baird, Addison W. (Sanitary), 30 Church
Baker, Chas. H., 100 B'way
Baker, W. E. & Co. (Consulting), 105 W 40th
Balcom & Darrow (Consulting), 314 Madison av
Baldwin Engineering Co., 209 W 33d
Baldwin, Wm. J. (Consulting), 63 Park
Balet, Jas. W., 428 E 133d row
Ball, Chas. W. W. (Consulting), 141 B'way
Ball, Sidney H. (Mining Geologist), 71
Banks, D. B., 27 William B'way
Barnaby, C. W. & Co. (Consulting), 32 E
Barnes, F. E., 30 Church 23d
Barney, Jno. M. (Consulting), 150 Nassau
Barney, Newcomb C. (Mining), 39 B'way
Barstow, W. S. & Co. (Consulting), 50 Pine
Barwick, Thos. Engineering Co. (Consulting), 21 Park row

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Basinger, J. G., 52 B'way
Bates, Chas. J. (Consulting), 126 Liberty
Bates, Putnam A. (Consulting), 2 Rector
Bauer, Jacob L., 17 Park Row
Beach, Robt. J., 32 B'way
Beatty, A. Chester (Consulting & Mining), 71 B'way
Beckwith, E. P. (Consulting), 20 Broad
Bemis, E. W. (Consulting), 17 Park row
Benedict, Wm. De L. (Mining), 43 Cedar
Benjamin, Geo. H. (Consulting), 45 B'way
Berger, Bernt, 45 B'way
Berggren, E. R. T. (Consulting), 21 Park row
Berle, Kort, 11 E 24th
Betterment Engineering Co. (Consulting), 50 Church
Bingham, Rutherford (Consulting), 2 Rector
Bingham, Theo. A. (Consulting), 2 Rector
Bird, Thos. J. (Consulting), 103 Park av
Birdsall, G. W. (Consulting), 21 Park row
Black & Loder Co. (Consulting), 30 Church
Blackwell, Frances O. (Consulting), 49 Wall
Blackwell, J. L., 27 William
Blair Engineering Co. (Consulting), 21 Park row
Block, Louis (Consulting), 45 E 42d
Boettiger, Philip (Consulting), 154 Nassau
Bogart, Jno. (Consulting), 141 B'way
Bogue, Virgil G., 15 William
Boller & Hodge (Consulting), 149 B'way
Bolton, Reginald P. (Consulting), 527 5th av
Boorman, Kitchell M. (Consulting), 11 Cliff
Bowman, Austin L. (Consulting), 165 B'way
Bowman, Geo. P. (Mining), 74 B'way
Boyd, Robt. W. (Consulting), 105 W 40th
Brackenridge, J. C. (Consulting), 95 Liberty
Braden, Wm. (Mining), 27 William
Bradley, Frank E., 491 5th av
Bradley, Frank E., 491 5th av Park row
Bradley, P. R. (Consulting, Mining, etc.), Mills bldg
Bradley, R. J. H. (Mining), 170 B'way
Brady, Francis W. (Consulting), 95 Liberty
Brady, Thos. J., Jr., 1170 B'way
Brainard, Owen (Consulting), 225 5th av
Bramwell, G. W. (Consulting), 335 B'way
Branne, Jno. S. (Consulting), 1 Madison av
Braslow, Barnett (Consulting), 25 W 42d
Breuchaud, Jules Const. Co. (Engr. & Contr.), 290 B'way
Briganti, D., 205 E 17th
Briggs, Josiah A. (Consulting), 150 Nassau
Brinckerhoff, Alexander G., 536 W 23d
Brinckerhoff, Hy. M., 60 Wall
Brociner, Alex. (Consulting), 18 E 42d
Brodie, Walter M. (Mining), 45 B'way
Brooks, Jas. E. Co. (Consulting), 45 B'way
Broome, Jos. (Consulting), 123 Liberty
Brower, Edw. S. (Consulting), 95 Liberty
Brown, Alfred T., 3rd av c E 177th
Brown, C. O. (Consulting), 624 Madison av
Brown, Paul G., 17 W 42d
Brownlee, Jas. L. (Consulting), 114 Liberty
Buchholz, Carl, W. (Consulting), 50 Church
Buckenham & Miller, 346 B'way
Budell, Alfred E., 30 Church
Burbank, Geo. B., 15 Wall
Burchartz, Ferd., 1 Madison
Burdett, F. A. & Co. (Consulting), 129 W 34th
Burke, Jas. J., 25 W 42d
Burke, Jno. W. (Consulting), 45 B'way
Burr, Wm. H. W., 116th nr Amsterdam av
Burr, Wm. H. (Consulting), 30 Church
Burritt, W. W. (Consulting), 2 Rector
Bush, E. Renshaw (Consulting), 69 Wall
Bush, Lincoln (Consulting), 1 Madison av
Caccavajo, Jos. Co. (Consulting), 15 Broad
Calhoun, D. Adams (Consulting), 35 Nassau
Campbell, Horace J. (Consulting), 200 B'way
Carey, Edw. G., 81 E 125th
Carpenter, Ira H., 25 Broad
Carpenter, Orlando T., 7 E 42d
Carrier, W. H. (Consulting), 39 Cortlandt
Carse, D. B. & Co. (Inc.) (Consulting), 765 B'way
Carver, David F. (Consulting), 95 Liberty
Cary, Albert A. (Consulting), 95 Liberty
Case, Willard L. (Consulting), 165 B'way
Case, Willard R. (Consulting), 165 B'way
Central Audit & Engineer Co. (Consulting), 50 Church
Century Eng. & Const. Co., 140 Nassau
Chambers & Hone (Consulting), 1 Liberty
Chandler, I. A. (Consulting), 120 Liberty
Channing, J. Parke (Consulting Mining), 42 B'way
Chapin, Chas. H. B. (Consulting), 29 W 39th
Chappell, Thos. F., 215 W 125th
Chester, Beatty A. (Mining), 71 B'way
Chiapponi, M. (Mining), 27 William
Child, Frank W. (Consulting), 27 William
Christy, Geo. Lewis, 128 W 42d
Church, Jno. A. (Mining), 15 William
Church, Townsend E. (Consulting), 2 Rector
Clark, Geo. H., 105 W 54th
Clark, MacMullen & Riley (Inc.), 20 Broad
Clark, Watson, G., 30 Church
Clausnitzer, Jno., 157 E 21st
Clements, J. Morgan (Consulting), 42 B'way
Clements, J. Morgan (Mining & Economic Geologist), 42 B'way
Cochrane, Garrett E. (Consulting), 2 W 125th
Coffin, Amory (Consulting), 50 Church
Colby, Albert L. (Consulting), 165 B'way
Cole, Edw. S. (Consulting), 220 B'way
Cole, Jno. A. (Consulting), 220 B'way
Collins, D. C. Newman (Consulting), 29 B'way
Collis, Lloyd (Consulting), 60 New
Colvin, Benj. J. (Consulting), 50 W 24th
Comstock, Louis K., 50 Church
Congelton, Osborn (Consulting), 37 E 28th
Conley, Owen J. (Mining), 18 B'way
Conley & Wood Co. (Mining), 18 B'way
Connell & Connell (Consulting), 90 West
Connon, Geo. W. (Consulting), 29 B'way
Constant-Herzig Co. (Consulting & Mining), 42 B'way
Construction Service Co. (Consulting), 15 William
Continental Engineering Co. (Mining), 43
Cooke, Chas. H., 55 B'way Exchange pl.
Coombs, Robt. D., 1123 B'way
Coombs, Stephen E., 335 Madison av
Cooper, Hugh L. (Consulting), 60 Wall
Cooper, Theo. (Consulting), 45 B'way
Cooper, & Powelson (Consulting), 60 Wall
Corby, Chas. E., 621 B'way
Coriell, Wm. A., 29 B'way
Cornell, Jno. N. H., 60 Wall
Corning, Fred'k G. (Mining), 35 Wall
Cornwall, Geo. R. (Consulting), 17 W 42d
Corthell, Elmer L. (Consulting), 149 B'way
Corthell, Howard L., 32 B'way
Cory, Russell G. (Consulting), 49 Cortlandt
Coverdale, W. H. & Co., 66 B'way
Crane, Clarence A. (Consulting), 13 Park row
Craven, Alfred, 154 Nassau
Crawford, Robt. (Consulting), 332 E 43rd
Crehore, Wm. W. (Consulting), 116 Nassau
Crowell, Foster (Consulting), 18 B'way
Culver, Alston G., 280 B'way
Cunningham, Stanley, 11 E 24th
Cuntz, Herman F. (Consulting), 7 E 42nd
Dana, Richard T. (Consulting), 15 William
Darling, Chas. P., 353 5th av
Darling, Oscar (Consulting), 17 Park row
Davis, Chandler, 11 B'way
Devereaux, Jas. H. (Mining), 64 Wall
Devereux, W. B. & Sons (Mining), 64 Wall
Devin, Geo., 545 W 144th
Deyo, Solomon L. (Chf. Engr. Interborough Met. Co.), 2108 5th av
Dickinson, Henri D., 45 E 17th
Disbrow, Wm. H. B., 156 5th av
Dixon, Deforest H., 11 B'way
Dixon, Laurens P. (Consulting), 47 W 34th
Dominian & Smith (Mining), 29 B'way
Donnelly, Jas. A. (Consulting), 132 Nassau
Donnelly, Wm. T. (Consulting), 135 B'way
Dooley, Jno., 60 Wall
Doty, A. Duane, 35 Warren
Doty, Arthur L. G., 17 State
Dougan, Jas., 32 Liberty
Dougherty, Wm. J. A., 505 E Tremont av
Douglas, Hy. T., 165 B'way
Don & Smith (Consulting & Chemical), 24 E 21st
Dudley, Jas. G. (Consulting), 149 B'way
Duenkel, Chas. L. (Consulting), 120 Liberty
Dufourcq, Edw. L. (Mining), 25 Produce Ex
Duncan, Louis (Consulting), 35 Liberty
Dunham, Herbert F. (Consulting), 220 B'way
Dunham, Lewis A., 42 B'way
Du Mazuel, Ed. (Consulting), 43 Exchange pl
Du Rand, Cortland E. (Mining), 10 Wall
Du Vivier, Edw. F., 50 Church
Dwight, Arthur S. (Mining), 25 Broad
Dwight & Lloyd Metallurgical Co. (Mining), 25 Broad
Dwyer, Jos. A., 70 5th ave
Dyer, Thos. B., 3rd av c E 177th
Eastwick Engineering Co. (Consulting), Ltd., 82 Beaver
Eckersley, Jos. D., 4269 White Plains av
Edwards, Harry W. (Civil & Consulting), 15 Wall
Ehrsam, Fritz, 1080 Brook av
Eidlitz, Otto M. (Eng. & Bldr.), 489 5th av
Eidlitz & Ross, 1123 B'way
Elliott, Arthur H. (Consulting), 165 B'way
Elliott, Jno. L. (Mining), 71 B'way
Ely, Jno. A., 23 Union sq
Emery, Jas. A. (Consulting), 115 B'way
Emmerson Co. (Consulting), 30 Church
Empire Engineering Corp., 60 Wall
Engineering Bureau (Consulting), 7 Pine
Engineering Supervision Co. (Consulting), 45 W 34th
Engineering & Combination Co. (Consulting), 143 Liberty
Enrich, Ernst F. (Mining), 15 William
Ernst, Arthur A. (Consulting), 103 Park av
Erwin, Frank B. (Consulting), 165 B'way
Exploration Co. (of N. Y.) (Consulting Mining), Mills bldg
Fahn & McJunkin (Consulting), 201 E 16th
Fairchild, W. L. (Consulting), 47 W 34th
Falding, Fred'k J. (Consulting), 55 B'way
Falk, Myron S. (Consulting), 30 Church
Falkenau, A. (Consulting), 165 B'way
Farish, Geo. E. (Mining), 25 Broad
Farish, Jno. B. (Mining), 25 Broad
Farish, Wm. A. & Co. (Mining), 60 Wall
Farley, G. P. (Consulting), 58 W 59th
Farley, J. M. (Consulting), 37 E 28th
Farley, Jno. M. (Consulting), 527 5th av
Farnum, Henry Harrison, 150 E 150th
Farnum, Loring N. (Consulting), 43 Ex. pl.
Farrington, Harvey (Consulting), 45 B'way
Farrow, Edw. S. (Consulting), 50 Church
Fearn, P. L. (Mining), 36 Wall
Fehr, Louis Albert (Firm of) (Consulting), 1931 B'way
Feldmann, Max B., 30 Church
Finch, Jno. W. (Mining & Geologist), 71
Findlay, J. R. (Mining), 2 Rector B'way
Fire Engineering Bureau (Consulting), 1 Madison av
Fisher, Francis D., 60 Wall
Fitch, Josiah H., 3rd av c E Tremont av
Fleming, Hy. S. (Consulting), 1 B'way
Floy, Hy. (Consulting), 165 B'way
Fohr, Franz (Mining), 132 Nassau
Folwell, Amory D. (Editor Municipal Journal & Engineer), 239 W 39th
Forbes, Paul R. (Mining), 15 William
Ford, Bacon & Davis (Consulting), 115 B'way
Ford, Porter D. (Cons. & Constr.), 15 Park row
Forgie, Jas. (Consulting), 30 Church
Forney, M. W. Co., 1 Madison av
Fosburgh, Jas. B. A., 30 Church
Foss, Fred Eugene (Prof. Civil Eng. Cooper Union)
Foulks, Jno. A., 29 B'way
Fowler, Geo. L. (Consulting), 53 B'way
Fowler, G. W. & Co. (Consulting), 20 Broad
Fox, D. Alvin (Consulting), 29 B'way
Francis Bros. & Jellett (Inc.) (Consulting), 156 5th av
Franklin Engineering Co. (Consulting), 346 B'way
French, Jas. B. (Consulting), 50 Church
Friedmann, Edw. N. (Consulting), 90 West
Friedrich, A. (Consulting), 32 Union sq E
Frye, Albert I. (Consulting), 90 West
Fuel Engineering Co. (Consulting), 59 Pearl
Fuertes, Jas. H. (Hydraulic & Sanitary), 140 Nassau
Fuller, Chas. A. (Consulting), 132 Nassau
Fuller, Wm. B. (Consulting), 150 Nassau
Garrey, Geo. H. (Mining & Geologist), 165 B'way
Gartensteig, Chas., 3rd av c E 177th
Gaston, Louis P., 143 Liberty
General Utilities Corporation (Consulting), 49 Wall
Gerhard, Wm. Paul (Consulting), 33 Union sq
Gibbs, Geo., 8 Bridge
Gildersleeve, Alger C., 217 W 125th
Giles, Robt., 59 W 45th
Gillespie, Richard H. (Consulting), 3rd av c E 177th
Glantzberg, Ernest (Consulting), 1544 Bway
Glas & Simonsson (Consulting), 37 E 28th
Goldmark, C. J. (Consulting), 103 Park av
Goldschmidt, O. E. (Consulting), 149 B'way
Goldstone, L. P. (Mining), 11 B'way
Goodrich, Ernest P. (Consulting), 2 Rector
Gotshall, Wm. C., 2 Rector
Granberry, Jas. H., 20 Broad
Gray, Jno. H. Co., Fuller bldg
Greene & Greene (Consulting), 11 B'way
Greiffenberg, Fred'k, 3rd av c E Tremont av
Greit, Adolph J. (Mining), 27 William
Griffith, Chas. G. (Mining), 15 William
Griggs & Holbrook (Consulting), 3 S William

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Grosvenor, W. M. (Consulting), 1123 B'way

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Grunsky, Carl Ewald (Consulting), 45
Guerber, A. S., 171 B'way B'way
Guerber, Lavis & Co. (Consulting), 50
Guerhber, Louis A., 171 B'way Church
Gunn, Richards & Co. (Consulting), 43
Gunnell, Wm. C., 132 Nassau Wall
Gustin, R. Prosper, 60 Wall
Hague, Chas. A. (Consulting), 52 B'way
Haight, Horace D., 22 Platt
Haight, S. S., 64 Buchanan pl, Univ. Hgts
Hall, Willis E. (Consulting), 30 Pine
Hamilton, Wm. Gaston, 105 E 21st
Hamilton & Chambers (Engrs. & Contrs.)
Hamilton & Hansell (Mining), 29 B'way
Hammerston, A. N., 30 Church
Hammond, Geo. T. (Consulting), 60 Wall
Hammond, Harris (Mining), 71 B'way
Hammond, Jno. F. (Consulting), 16 Ex. pl
Hammond, Jno. Hays (Consulting Mining), 71 B'way
Hanan, R. L. (Consulting), 949 B'way
Hanchett, Geo. T. (Consulting), 237 Fulton
Hancock, Robt. R. (Sec. of Philippine Ry. Co.), 43 Exchange pl
Hansel, Chas. & Co. (Consulting), 41 Wall
Harahn, Wm. J. (Asst. Co. Pres. Erie R. R.), 50 Church
Hardy, Geo. F. (Consulting), 309 B'way
Haring, Alex., 165 B'way
Harrison, Burt S. (Consulting), 42 E 23d
Harrison, Chas. L., 299 B'way
Harrison & Mansfield (Consulting), 17 Park row
Hartigan, Fred'k L. (Care Edison Portland Cement Co.), 1133 B'way
Hartmann, A. P., 61 William
Haskins, Wm. J. (Consulting), 50 Church
Hauck, Wm., 350 B'way
Hayes, Geo. S., 1123 B'way
Hazen & Whipple (Consulting), 103 Park av
Hefele, Geo. H., 428 E 133d
Hennebique Construction Co. (Consulting), 1770 B'way
Hennig, Chas. T. (Mining), 114 Liberty
Henning, Gus. C. (Consulting), 150 Nas-
Henrich, Carl (Mining), 42 New sau
Henry, Philip W. (Consulting), 90 West
Henshaw, Fred'k V. (Consulting), 90 Wall
Hepp, Aug. C. (Constructing), 145 Liberty
Hering, Peter B., 505 E Tremont av
Hering & Fuller (Consulting, Hydraulic & Sanitary), 170 B'way
Herrick & Stebbins (Consulting), 14 Church
Herschel, Clemens (Consulting, Hydraulic, Herz & Co., 295 Lafayette etc.), 2 Wall
Hewes, Virgil H. (Mgr. & Treas. Zwoyer Fuel Co.), 60 Wall
Higgins, J. Wallace, 347 5th ave
Hildreth & Co. (Consulting), 135 B'way
Hill, Geo. (Consulting), 31 E 27th
Hill, Halbert P. (Consulting), 30 Church
Hill, Nicholas S. Jr. (Consulting), 100 William
Hill, Rawland F. (Mining), 25 Broad
Hill & Irwin (Mining), 25 Broad
Hitchcock, Fred'k C. (Vice Pres. & Gen'l Mgr. MacArthur Bros Co.), 11 Pine
Hocke, Julius G. (Secy. & Tres. Gen'l Contr. & Eng. Co.), 50 Church
Hodge, Hy. W., 149 B'way
Hoff, Olaf (Consulting), 149 B'way
Holbrook, Jno. Byers (Consulting), 3 S William
Holtzman, S. F. (Consulting), 160 5th av
Hooper, Geo. K. (Consulting), 165 B'way
Hopkins, R. D. (Consulting), 25 W 42d
Hopper, Jno. J., 217 W 125th
Horenburger, A. W. H., 422 E 159th
Horensey, Jno. W. (Consulting), 27 William
Horsfall, Hy. A. (Mining), 69 Wall
Hough, David L. (Pres. United Eng & Contr. Co.), 17 W 42d
Howard, Jas. W. (Consulting), 1 B'way
Howland, Hy. S. (Consulting), 50 Church
Howland-Kirk Co. (Consulting), 50 Church
Hoxie, Geo. L., 50 Church
Hudson, Clarence W. (Consulting), 45 B'way
Hughes, C. H. & Co. (Consulting), 115 B'way
Hume, Jno. C., 3d ave c E 177th
Humphreys & Glasgow (Inc.) (Consulting), 165 B'way
Hunt, H. E. (Consulting), 39 Cortlandt
Hurlbut, Chas. C., 320 5th av
Hutchins, Jno. P. (Mining), 52 B'way
Hutchinson, Cary T. (Consulting), 60 Wall
Hutchison, M. R., 50 Church
Industrial Engineering Co. (Consulting), 30 Church
Ingersoll, Colin Macrae Jr. (Advisory Eng.), 165 B'way
International Dryer Co. (Consulting), 1123
Irwin, Fred'k B., 25 Broad B'way
Jack, Chas. P. M. (Consulting), 68 Broad
Jacobs & Davies (Inc.) (Consulting), 30 Church
Jacobus, M. W., 59 Cortlandt
Jeppesen, Chri. J., Inc. (Consulting), 121 E 27th
Johnson, Geo. A. (Consulting), 170 B'way
Johnson, Jno. P., 505 E Tremont av
Johnstone, W. B., 1123 B'way
Jones, Walter J. (Consulting), 30 Church
Judd, Emerson W. (Consulting), 68 William
Judson, Jno. N. (Mining), 35 Wall
Julian, H. Forbes (Consulting), 30 Church
Kanski, Hy. S., 505 E Tremont av
Kapp, Stacy W. (Consulting), 96 Fulton
Kaufman, A. G. (Consulting), 133 Reade
Kaufman, Alphonse (Consulting), 2 Rector
Keffer, Chas. B., 3rd av c E 177th
Keith, Herbert C. (Consulting), 116 Nassau
Keller, Herman A. (Mining), 45 B'way
Keller, Martin C., 3rd av c E 177th
Kelley, Wm. D. (Pres. Kelly & Kelley, Engrs. & Contrs.), 45 E 42nd
Kempton & McCoy (Mining), 42 B'way
Kennedy, J. J. (Consulting), 52 B'way
Kenny, Jno. & Co., 1189 Boston rd
Kenny, Jno. M., 217 W 125th
Kidd, Andrew, Jr. (Consulting), 95 Liberty
Kidde, Walter, 140 Cedar
Kiernan, Perry J., 505 E Tremont
Kimball, R. D. Co. (Consulting), 437 5th av
Kimball, W. R. (Consulting), 45 W 34th
King Mechanism & Engineering Co. (Consulting), 21 Park row
Kirk, Robt. H. (Consulting), 50 Church
Klapp, Eugene (Consulting), 60 Wall
Klein, Edw. A., 32 Liberty
Klein, Wm. W. (Consulting), Times bldg
Klepetko, Frank (Consulting Mining), 42
Knap, Joseph M., 220 W 57th B'way
Knapp, Jno. A. (Mining), 15 William
Knochenhauer & Morelli, 1901 Bathgate av
Knowles, E. R. (Consulting), 63 Park row
Knox, Douglas, 404 E Fordham rd
Knox & Allen (Consulting, Mining & Metallurgical), 82 Beaver
Kopf, Jno. C. (Consulting), 2 Rector
Koyl, C. H. (Consulting), 18 B'way
Kuichling, Emil (Consulting), 52 B'way
Lacombe, Chas. F., 17 Park row
Lamb, Richard (Consulting), 136 Liberty
Lancaster, Thos. (Consulting), 79 Wall
Langton, Jno. (Consulting), 31 Nassau
Lapham, Jno. G. (Consulting), 136 Liberty
Lassoe, Valdemar (Consulting), 8 Bridge
Latey, Harry Nelson (Consulting), 100 B'way
Lawlor, Thos. F. (Consulting), 69 Wall
Lawrence, Benj. B. (Mining), 60 Wall
Lawrence, Edw., 505 E Tremont av
Lawrence, Egbert C., 505 E Tremont av
Lawyers Engineering & Surv. Co., 135 B'way
Leavitt, Chas. W., Jr. (Civil & Landscape), 220 B'way
Ledoux Co. (Consulting & Mining), 99 John
Lefevre, Henry F. (Mining), 71 B'way
Leggett & Hellmann (Consulting), 35 Wall
Lentilhon, Eugene (Consulting), 37 W 44th
Lenz & Mole (Consulting & Mining), 71 B'way
Lewinson, Maxymillan (Consulting), 128 W
Lewis, Nelson P., 277 B'way 42nd
Lidner, P. Gus. (Mining), 130 Lexington
Lilliendahl, Alfred (Mining), 35 Wall
Lilliendahl, F. A. (Mining), 35 Wall
Lindenthal, Gustav (Consulting), 45 Cedar
Lindeman, Maurice A., 50 Church
Lindenthal, Gus., 47 Cedar
Livermore, Wm. White, 55 W 33rd
Livingston, Robt. R. (Consulting), 2 Rector
Liera, Manuel (Consulting), 30 Church
Lockwood, Howard T., 261 B'way
Long & Miller (Consulting), 220 B'way
Loomis, Horace, 21 Park row
Loomis. Pettibone & Co. (Consulting), 2
Low, Geo. E., 45 B'way Rector
Lowenstein, F. (Consulting), 115 Nassau
Lowrie, Harvey C., Flatiron bldg
Lucius, Albert, 38 Park row
Lundie, Jno. (Consulting), 52 B'way
Luquer, Thatcher T. P. (Consulting), 103
Lynch. C. J. L., 39 Cortlandt Park av
Lyndon, Lamar (Consulting), 60 B'way
Lyons, Martin J., 3rd av c E 177th
McCay, Percy B. (Mining), 42 B'way
McCrary, Pierce R. (Consulting), 426 E 23d
McDowell. Floyd F., 3rd av c E 177th
McKay. Jno. E., 21 Park row
McKee, Edw. H. (Mining), Produce Ex.
McKim, Alex Rice (Consulting), 116 E 28th
MacDonald, Bernard (Mining), 35 Wall
MacDonald, Chas., 26 Exchange pl
MacDonald, M. Edward (Mining), 35 Wall
MacDonald, Wm. S., 26 Exchange pl
MacGregor, Robt. A., 3rd av c E 177th
Mackay, Alfred (Consulting), 95 Liberty
Macnab, Geo. T., 3rd av c E 177th
MacNeille, Perry R. (Consulting), 12 E Madison, Erection Co., 281 4th av 45th
Magovern, Edw. E. (Consulting), 299 B'way
Mailloux, C. O. (Consulting), 76 William
Malloy, Geo. C., 3rd av c E 177th
Molaney, Jas. H., 445 E Tremont av
Man, Albon P., 56 Wall
Manahan, Elmer G. (Consulting), 170 B'way
Mapes, Chas. A., 509 Willis av
Mapes, Chas. M., 509 Willis av
Marcus, Sam'l M. (Mining), 15 Broad
Marks, Louis B. (Consulting), 103 Park av
Marks, Wm. D. (Consulting), 21 Park row
Masters, H. H. (Consulting), 15 Whitehall
Mathez, Aug. (Consulting), 42 B'way
Matlock, Chauncey (Consulting), 220 B'way
Maynard, Geo. W. (Consulting, Mining), 20 Nassau
Mead & Halloway (Consulting), 1170 B'way
Meggy, R. L. G. (Consulting), 95 Liberty
Meier, Fred'k R. (Consulting), 1 B'way
Meier, Konrad (Consulting), 122 E 25th
Meikleham & Dinsmore (Consulting), 25
Mendel, Louis, 39 Norfolk Broad
Meniman, Mansfield (Consulting), 32 W 40th
Mershon, Ralph D. (Consulting), 60 Wall
Mesa. Henry, 39 Cortlandt
Messiter, E. H. (Mining), 25 Broad
Meyer, Chas. A. & Son, 194 Bowery
Meyer, Hy. C. Jr. (Consulting), 1 Madison
Miller, Frank, 143 Liberty av
Miller, Harvey C. (Consulting), 1 Madison av
Miller, Sam'l O., W 116th nr Amsterdam av
Mills, Chas. Molon (Consulting), 71 B'way
Miller Spencer, 96 Liberty
Minard, Fred'k H. (Mining), 111 B'way
Mines Management Co. (Consulting. Mining), 40 Wall
Mitchell, N. J. Co. (Consulting), 7 Pine
Mitchell, Wm. E. (Mining), 25 Broad
Moeller, Fred'k (Consulting), 96 Warren
Moffat, Alex. (Consulting), 27 William
Molitor, Fred'k A. (Consulting), 2 Rector
Molloy, Geo. C., 505 E Tremont av
Moore, Edgar, 11 B'way
Moore, Ernest C., 154 Nassau
Moore, Jas. R. (Consulting), 156 5th av
Moore, Jno. D. (Consulting), 30 Church
Moore, Thos. L., 3rd av c E 177th
Moran, Dan'l E., 115 B'way
Morris, Chas. A. (Consulting), 17 Park
Morrison, Hy. P., 17 Park row row
Morse, Geo. R. (Consulting), 50 Church
Morton, Walter Scott, 2 Rector
Moses, P. Robt. (Consulting), 45 W 34th
Moss, Robt. E., 126 Liberty
Moulton, Mace (Consulting), 150 Nassau
Mueser, Wm., 17 Park row
Muller. I. I. (Consulting), 170 B'way
Murphy, Peter J., 428 E 133d
Myers, Chas. H., 45 B'way
Myers, David M. (Consulting). 17 Battery
Namur, August, 1 Madison av pl
Nassau-Beaver Co. (Consulting), 41 Park
Nau. Jno. B. (Consulting), 1 B'way row
Newman, M. L. & Co. (Consulting), 2 Rector
Nicholas, Francis C. (Mining), 7 Pine
Nichols, Chas. H., 103 Park ave
Nichols, Harry P., 277 B'way
Nilson, Lars G. (Consulting), 15 Wall
Noble & Woodard. 5 E 42nd
North. Edw. P., 220 W 57th
Nostrand. Peter E. (Consulting), 149 Bway
Nygren. Tenney & Ohmes (Consulting), 87 Nassau
O'Connor, Jos. A. (Consulting), 181 E 125th
O'Dea, Jos. C., 45 W 34th
Olcott & Corning (Mining), 36 Wall
Olson, Jno. E. (Consulting), 141 W 45th
Opdycke, Hy. G., 30 Church
Opdyke. Stacy B., Jr. (Consulting), 1931
Ortiz. Jose M. (Mining), 60 Wall B'way
Osborn Engineering Co., 45 B'way
Ostrander, A. I., 3rd av c E 177th
Packarad, Ralph G., 130 Pearl
Palmer. Cortlandt E. (Consulting Mining),
Parker, Asa W., 45 B'way 2 Rector
Parker Bros. (Consulting), 143 Liberty
Parmley, Walter C. (Consulting), 45 E 17th
Parsons, Bert H. (Consulting), 60 Wall
Parsons, H. de Berkeley (Consulting), 22 William

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Parsons, W. Barclay (Consulting), 60 Wall
Patterson, H. D. (Consulting), 141 B'way
Pattison Bros. (Consulting), 949 B'way
Payne, Clarence O. (Mining), 82 Beaver
Payne, Wm. Arthur, 156 5th av
Payzant & Hearne, 7 E 42nd
Pearson, Fred'k S. (Consulting), 25 Broad
Pearson, Jas. J. (Consulting), 40 Wall
Pegram, Geo. H., 165 B'way
Perin, Chas. Page (Consulting), 2 Rector
Perrine, Geo., 22 William
Perry, O. B. (Mining), 165 B'way
Pettigrew, Thos., Johnstone bldg, 28th & Philips, A. S., 77 Pike B'way
Phillips, E. L. & Co. (Consulting), 50 Church
Phipps, Edw. H. (Consulting), 29 B'way
Piatti, Paul J. (Consulting), 47 W 34th
Pierce, Frederic E., 55 Wall
Pierson & Goodrich (Inc.), 30 W 38th
Pitou, Eugene, 229 B'way
Pittsburg Testing Laboratory Ltd. (Consulting), 1 Liberty
Platt, Jno. & Co. (Consulting), 97 Cedar
Plock, Jno. L. (Consulting), 17 W 42nd
Plume, Frank C. (Consulting), 42 B'way
Pneumatic Eng. Co. (Mining), 11 B'way
Polakov, Walter N. (Consulting), 50 Church
Pomeroy, Wm. A. (Mining), 55 Wall
Porter, Alex. (Mining), 29 B'way
Porter, Henry Hobart, 52 William
Porter, Holbrook (Consulting), 1 Madison
Post, Geo. B., 341 5th av
Post, Henry W. (Consulting), 30 W 38th
Post, Hy. W. (Consulting), 30 W 38th
Potter, Alex. (Consulting), 114 Liberty
Potter, Raymond G., 621 B'way
Potts, Clyde, 30 Church
Powelson, Wm. D. (Consulting), 60 Wall
Practical Engineering Co., 5 E 42nd
Preinel, Wm., 505 E Tremont av
Prince, Benj. (Consulting), 18 E '8th
Problem Consulting & Constructing Co. (Consulting), 127 Reade
Proctor, Albert W. (Consulting), 30 Church
Prosser & Walker (Consulting), 42 B'way
Prout, Henry G., 143 Liberty
Provost, Andrew J., 39 W 38th
Provot, Francis A. (Consulting & Mining), Pruyn, Francis L., 290 B'way 40 Wall
Pumpelly, Raphael W. (Mining), 2 Rector
Purdy & Henderson (Consulting), 45 E 17th
Putnam, Hy. S. (Consulting), 100 B'way
Quay Engineering Co. (Consulting), 1123 Quinby, Edwin R., 54 Lafayette B'way
Ramsey, Jos., Jr., 100 B'way
Randall, Geo. W., 1123 B'way
Randolph, Jno. C. F. (Consulting), 15 Randolph, Wm. W., 165 B'way Broad
Rapp, Jno. V. B. (Consulting), 507 5th av
Raque, Philip E. (Consulting), 150 B'way
Rassloff, Harold de, 18 Burling sl
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Reid, Thorburn (Consulting), 93 Wall
Renault, Geo. (Consulting), 27 William
Rendall, Geo. F., 120 Liberty
Rennard, Jno. C. (Consulting), 99 Nassau
Reno, Jesse W. (Mining), 553 W 33d
Rhodes, Fred. D. (Consulting), 90 West
Riardon, D. M. (Consulting Mining), 165 B'way
Ricketts & Banks (Mining), 104 John
Ries, Elias E. (Consulting), 116 Nassau
Ripley, Jno. W., 50 Church
Risse, Louis A., 16 E. 42d
Roffins, Allan A., 50 Church
Robbins, W. M. (Consulting), 2 W 29th
Roberts, Evelyn P. (Consulting), 18 B'way
Roberts, Vincent, 225 5th av
Robinson, Cyrus (Consulting, Mining, Smelting & Power Plants), 82 Beaver
Robinson, Jas. K. (Mining), 45 Pine
Robinson & Wagner, 37 E 28th
Rodgers, Frank L. (Consulting), 115 B'way
Roelker, H. B. (Consulting), 41 Maiden la
Rogers, A. P. (Mining), 25 Broad
Rogers, Allen H. (Mining), 71 B'way
Rogers, Edwin M. (Consulting Mining), 32 B'way
Rogers, Jno. I. Jr. (Consulting), 165 B'way
Rogers & Latimer, 7 E 42d
Rosa, Paul, 1123 B'way
Rosencrans, Edwin Jno., 1328 B'way
Ross, Jno. G., 150 Nassau
Rossi, Aug. J., 35 B'way
Rossman, Jas. E. (Consulting), 140 Nassau
Ruddle, Jno., 50 Church
Ruggles, Chas. E. (Consulting), 36 E 23d
Ruggles, Horace F. (Consulting), 106 Wall
Runyon & Carey (Consulting), 47 W 34th
Sample, Jno. C. (Consulting), 1 Madison av
Sanderson & Porter (Consulting), 52 William
Sanders, Wm. Lawrence (Pres. Ingersoll-Rand Co.), 11 B'way
Sanford, Harry C., 60 Wall
Sawtelle, Edmund M. Consulting), 5 Beekman
Saxton, Edmund F., 30 Church
Schaefer, Jno. H., 3rd av c E 177th
Schaeffler, Joseph C. & Co., 151 W 91st
Schermerhorn, Rich'd Jr., 29 B'way
Schleicher, Jno. A., 95 Liberty
Schleuter, Fred'k P., 3rd av c E 177th
Schley, Geo. (Mining), 154 Nassau
Schmatolla, Ernst, 15 Nassau
Schmidt, Max E., 45 B'way
Schroeter, Geo. A. (Consulting), 111 B'way
Schwerin, Martin (Mining), 85 Cedar
Scott, Wm. S. (Mining), 35 Wall
Seaman, Hy. B., 154 Nassau
Semple, Clarence C. (Mining), 5 W 65th
Sever, Geo. F., 17 Park row
Sharpless, Fred'k (Consulting Mining), 52
Shattuck & Simpson, 99 John B'way
Sheffield, Arthur ., 122 E 25th
Sherry, Jno. D., 3rd av c E Tremont av
Shipman, Jesse O., 154 Nassau
Shockley, Jos. H. (Mining), 66
Simmons & Burns (Mining), 60 Wall
Simonds & Burns (Mining), 60 Wall
Simpson, Geo. (Consulting), 51 Wall
Skene, Fred'k (Consulting), 149 B'way
Sloan, Harry (Consulting), 50 Church
Smeaton, Wm. H. (Mining), 206 B'way
Smith, Aug., 149 B'way
Smith, E. Percy (Consulting Mining), 29 B'way
Smith, Fred'k L. (Consulting), 5 Beekman
Smith, Jonas W. (Chief Engineer Board of Water Supply), 299 B'way
Smith & Malcomson, 132 Nassau
Snook, Thos. Edw., 73 Nassau
Snow, Chas. H., University Hgts.
Sonne, Otto, 132 Nassau
Sooysmith, Chas. (Consulting), 71 B'way
Soper, Geo. A. (Consulting Sanitary), 29 B'way
Sorzano, Julio F. (Consulting), 52 B'way
Sparzo, Jno. D. (Consulting), 115 B'way
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Staats, Jno. Hy., 29 B'way
Stanton, Frank M. (Mining), 208 5th av
Stanton, Robt. B. (Consulting), 32 Nassau
Starr Engineering Co. (Consulting), 50 Church
Starret, Milton Gerry (Consulting), 621
Stehli, Hy. J. (Mining), 25 Broad B'way
Stern, Eugene W. (Consulting), 103 Park
Stevens, Allan, 11 B'way av
Stevenson, Robt. (Consulting), 52 B'way
Stillwell, Lewis B. (Firm of) (Consulting), 100 B'way
Stoddard, Geo. C. (Civil & Sanitary), 217 W 125th
Stone, Wm. M. (Consulting), 21 Park row
Stonestreet, Geo. D. (Mining), 45 B'way
Stoughton, Bradley (Consulting), 165 B'way
Strong, Mason R. (Arch & Eng), 7 Wall
Strong, W. E. S. (Consulting), 31 Nassau
Stuart, Alfred Allen (Consulting with Degnon Const. Co.), 60 Wall
Stuart, Francis Lee (Chf. Engr. Erie R. R. Co.), 50 Church
Sussman, Otto (Mining), 52 B'way
Sutton, Frank (Consulting), 80 B'way
Swezey, Edw. C., 50 Pine
Sykes, Geo. (Inc.), 1123 B'way
Tainter, Frank S. (Pres.), 90 West
Taylor, Frank (Consulting), Produce Ex.
Taylor, Wyatt W. (Consulting), 2 Rector
Ten Broeck. F. G. (Consulting), 200 5th av
Tew, Wm. H. (Consulting), 90 West
Thacher, Edw. (Consulting), 17 Park row
Thayer, B. B. (Mining), 42 B'way
Thebau, Jno. G., 428 E 133rd
Thompson, Alfred (Mining), 71 B'way
Thompson, Jno. H., 68 William
Thompson, Sam'l C., 3d av c E Tremont av
Thompson, R. R. & Co., 334 5th av
Thomson, T. Kennard (Consulting), 50 Church
Thurston, E. C. (Mining), 30 Church
Tunnis, Walter S. (Consulting), 150 Nassau
Tingley, R. H. Co., 50 Church
Tompkins, E. DeV. (Consulting & Contracting), 81 E 125th
Tonking, Jas. B. (Mining), 90 West
Tower, Geo. Warren, Jr. (Consulting, Mining & Geologist), 62 Liberty
Towl, Forest M. (Consulting), 26 B'way
Towle, Chas. S. (Consulting), 7 E 42nd
Towle, H. L. (Consulting), 150 Nassau
Townsend, Arthur R. (Consulting Mining), 25 Broad
Tracy, Jos. (Consulting), 116 W 39th
Triest, Wolfang G. (Vice-Pres. Snare & Triest Co.), 143 Liberty
Trotter, Alfred W., 141 B'way
Truesdell, Walter E., 7 W 38th
Truesdell-Fox Co., 7 W 38th
Tucker, Benj. W. (Consulting), 143 Liberty
Tucker, Ross F., 35 W 32nd
Tucker, Wm. C., 156 5th av
Turbo Electric Const. Co. (Consulting), 39 Cortlandt
Tuska, Gus. R. (Consulting), 68 William
Twombley, A. H. (Consulting), 111 B'way
Underhill, Chas. R. (Consulting), 56 Liberty
U. S. Engineering Co., 25 Broad
Upham, Richard D., 11 B'way
Vanderhorst, Elias (Consulting), 45 B'way
Vanderlip, Washington B. (Mining), 41 Liberty
Van Horne. Jno. G. (Consulting), 165 B'way
Van Winkle, Edgar B., 115 E 70th
Van Winkle, Edw. (Consulting Patent Eng.), 90 West
Vermeule, C. C., 203 B'way
Vickess, Samuel (Consulting), 107 Front
Viele, Blackwell & Buck (Consulting), 49 Wall
Vom Baur, Carl H. (Consulting), 30 Church
Vom Saal, Fred'k M., 121 W 23rd
Von Hoffman, F. (Firm of), 1133 B'way
Von Rosenberg, Leo. (Mining), 42 B'way
Von Wiedenfeld, H. P. & Co., 118 E 28th
Vredenburgh, Watson, Jr., 135 B'way
Wagner, Herbert A. (Consulting), 60 Wall
Wainwright, J. H. (Mining), 40 Wall
Waitt, Arthur M. (Consulting), 165 B'way
Waldo, Leonard (Consulting), 49 Wall
Waldron, Fred'k A. (Consulting), 37 Wall
Wallace, Jno. Finley (Pres. Elec. Properties Co.), 165 B'way
Wallace, Jos. H. & Co. (Consulting), 5 Beekman
Ward, Chas. Dod, 702 St. Nichols av
Warfield, Lewis (Consulting), 64 Wall
Waring, Chapman & Farquhar, 874 B'way
Warner, Chas. S. (Consulting), 165 B'way
Washington & Lewis (Mining, Geologists & Petrographers), 149 B'way
Watson & Watson (Consulting Mining), 25
Webber, Morton (Mining), 25 Broad Broad
Webster, Albert L., 80 Wall
Webster, Jos. O. B., 21 Park row
Weems, David G., 58 William
Weiler, Jno. C., 505 E Tremont av
Weiskopf, Sam'l C. (Consulting). 68 William
Weld, Christopher M. (Consulting), 2 Rector
Wells, James H., 32 Nassau
Wemple, Wm. R. (Mining), 32 B'way
Wendland, C. F. (Consulting), 176 Centre
Westervelt, W. Y. (Consulting), 100 William
Westinghouse, Church, Kerr & Co., 10 Bridge
Wheeler, C. C. & A. E., 600 W 181st
Wheelock, C. Wm. (Mining), 141 B'way
Whipple, Geo. Chandler (Consulting), 103 Park av
Whitney, Sam'l (Consulting), 95 Liberty
White, Henry J. (Consulting), 95 Liberty
White, Thos. H. (Consulting), 77 Broad
Whitney & Underwood (Consulting), 150 Nassau
Whyte, W. De Burgh (Mining), 60 Wall
Wiener, Alfred E. (Consulting), 150 Nassau
Wilgus, Wm. J. (Consulting), 165 B'way
Wilkins, Hy. A. J. (Mining), 30 Church
Williamson, F. Stuart (Consulting), 84
Williamson & Mead. 79 Wall William
Wilmoth, Wm. F. (Consulting), 409 W 15th
Wilson, Hy. C. (Consulting), 1 Madison av
Wilson, Jno. (Consulting), 17 B'way
Wilson, Robt. Co. (Consulting), 200 5th av
Wilson, W. & Son (Consulting), 95 William
Wiltsee. Ernest (Consulting Mining), 165
Wise, J. H. (Mining), 4 Stone B'way
Wood, E. J. Co. (Consulting), 245 B'way

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Wood, Wm. A. (Consulting), 2 Rector
Woodford, E. G. (Consulting), 29 B'way
Woodwell, Julian E., 103 Park av
Woolsson, Ira H. (Consulting), W 116th nr Amsterdam av
Worth, Jno. G. (Mining), 15 Broad
Worthington, Charles, 229 W 101st
Wright, Jas. K. (Consulting), 136 Liberty
Wright, Louis A. (Mining), 42 B'way
Wyndham, Arthur W., 8 Patchin pl
Yeatman, Pope (Consulting), 165 B'way
Yereance, Wm. B. (Consulting), 128 B'way
York, Herbst Waldo (Consulting, Am. Smelting & Refining Co.), 165 B'way
Young, C. G. (Engineering & Construction), 60 Wall
Young, W. W. (Consulting), 220 B'way
Zalriskie, Aaron J., 23 5th av

## Borough of Queens.

ELMHURST—Browne, Walter I.
FAR ROCKAWAY—Conklin, E. W.
FLUSHING—Haviland, Geo. W. Jr. (& Surveyor)
Kimball, A. Howard, 45 Main
Roulier, Gustave R., 45 Main
Wilson, Robert J., 45 Main
JAMAICA—De Bevoise, Chas. H.
Evans Bros.
Evans, D. J. & Co., 357 Fulton av
McLaughlin, Jno. J. (Consulting)
McLaughlin, Sylvester H., 324 Fulton
Mason, Wm. A.
Metropolis Engineering Co.
Morris, Geo. A.
Savage, J. R. (Ch. Engr. L. I. R. R. Co.)
LONG ISLAND CITY—Beebee, Alexander S. (Surveyor), 24 Jackson av
Farley, Philip P., 246 Jackson av
Hinchman, M. L. (Mining), 246 Jackson av
Just, Geo. A. (Cons. & Pres. Geo. A. Just Co.), 239 Vernon av
Smith, Leonard C. L., 59 Woolsey
Tait, Harold, Jackson av c 5th
Vanalst, Peter G., 702 Vernon av
MASPETH—Meinekheim, Bernard G.
Skeen, Fred'k, 41 Lockwood
Smith, Leonard C. L. (& Surveyor), 24 Jackson av
Tait, Harold, 5th & Jackson av
Vanalst, Peter G., 702 Vernon av
NEWTOWN—Bartlett, Homer L.
RICHMOND HILL—Deehan, James F.
Gibbons, Michael C.
How, R. W., Myrtle av c Park

## Borough of Richmond.

MARINER'S HARBOR—Freeman, L. W.
NEW BRIGHTON—Fetherston, John T.
PORT RICHMOND—Kelly, Thomas M.
Nye, James
RICHMOND HILL—Strachan, Robt. C.
ST. GEORGE—Ash, Wm. Borough Hall
Bernhardt, Martin, Borough Hall
Bouton, Arthur G., Borough Hall
Casey, James J., Borough Hall
Frey, Michael F., Crabtree bldg
Gordon, Paul T., Borough Hall
Greunthal, A. F., Borough Hall
Hallock, Geo. W., Borough Hall
Hillyer, Wm. R., Borough Hall
Kelly, Thos. M., Borough Hall
Law, Edward M., Borough Hall
Lurye, Hy. I., Borough Hall
Mouronval, Henri, Borough Hall
Nichols, Munson, Borough Hall
Rabinowitz, Louis, Borough Hall
Redgrave, Wm. B., Crabtree bldg
Selmer, William, Borough Hall
Snedecker, William, Borough Hall
Stout, Ellasson, Borough Hall
Tribus, Louis L., Borough Hall
Tuttle, Geo. W. Borough Hall
Vanderbrook, R. H., Borough Hall
Van Vechten, C. C., Borough Hall
Wood, Robt. W., Borough Hall
TOTTENVILLE—Yetman, Hubbard R.
WEST NEW BRIGHTON—Bragdon, Edmund E.
Morrison, Hy. P. (& Surveyor), 177 Rich ter
King, Chas. C. (Chf. Engr. C. W. Hunt Co.)
Oxholm, Theo. S.
Pettigrew, Walter E. (& Surveyor), 177 Rich ter

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Douglas, A. C. (Mining)
Harper, John L. (Chf. Engr. Niagara Falls Hydr. Power & Mfg. Co.)
Robinson, W. D. (City)
Van Cleve, Aaron H. (Consulting)
NORTH TONAWANDA—Cushing, B. L.
Smith, A. P. (& Surveyor)
NORWICH—Munson, Eugene F. (City)
NYACK—Demarest, J. E.
OGDENBURG—Tate, Geo. A.
ONEIDA—Tibbitts, Geo. S.
OLEAN—Keith, Geo. T. (Res. Engr. Dept. of Public Highw.)
ONEONTA—Seybolt, A.
Miller, Orson A. (City)
OSSINING—Palmer, Powles D., 9 Maple av
OSWEGO—Harris, Nelson J., City Hall
PATCHOGUE—Applegarth, A. P.
Smith, Emmett
PEEKSKILL—Kastl, Alex E., 321 Fremont
Reynolds, I. W.
PLATTSBURG—Averill, H. K.
PORTCHESTER—Kirley, Richard S.
Odell, Fred'k S.
Rood, Henry M.
Sands, Purdy G.
POTSDAM—Aldrich, Wm. S. (Consulting)
Cruikshank, Barton (M. E.) (Pres. Clarkson School Tech.)
POUGHKEEPSIE—Brevoort, B. H. (Consulting, & Surveyor), 54 Market
ROCHESTER—Alden, John F. (Consulting)
Brown, Bert D., 16 State
Brown, Legrand (Consulting), E. & B. bldg
Crafts, F. H., Glendale Park
Fisher, Edwin A. (City), City Hall
Fitch, Henry L., Powers bldg
Gaskin, R. E. & E. W., Elwood bldg
Govern, Edw. J Granite bldg
Grant, A. J., City Hall
Grant, Justus H., 78 S Goodman
Gray, Wm. C., 27 Church
Jones, H., 53 Madison
McClintock, J. Y. (County)
Miles, Geo. C., Livingston bldg
Morrison, Thos. J., Triangle bldg
Radenhurst, Wm. N., 16 Scio
Rockwood, A. J. (Consulting), Cutler bldg
Ryan, John C., 120 Arcade
Storey, W. R., E. & B. bldg
Titus, A. B. (Surveyor), 16 State
ROME—Knight & Hopkins (Hydraulic & Sanitary)
Schillner, Geo. C.
Stanwix Eng. Co.
RUSHFORD—Kendall, Chas. H.
SAG HARBOR—Hunt, E. Z.
SANDY HILL—McCarty, Jas.
Monty, J. P.
SARATOGA SPRINGS—Mott, J. S. & Son
SCHENECTADY—Blessing, Emmett
FitzGerald, John L. (City), 175 Jay
Gifford, Wm., 785 State
Hook, Gulian S., 705 Union
Landreth, Olin E. (Prof. of Engrg., Union
Sebring, Lewis B. Col. & Consulting)
Trumbull, Chas. W., 703 State
SYRACUSE—Allen, Henry C. (City Engr.), City Hall
Bauder, B. F., 311 Noxon
Beach, H. T. (Consulting), City Hall
Blauvelt, W. H. (Consulting, Semet-Solvay Co.)
Clarke, T. W., City Hall
Griffn, Rhesa, 307 E. Genesee
Hawkinson, F. W., 108 Harrison
Higgins, Geo. E., 84 Wieting blk
Hodgkiss, H. C. (Consulting), Dillaye Mem.
McComb, Chas. O., University blk bldg
Mather, This. H. (Consulting), O. C. S. Bank bldg
Morrison & Farrington (& Surveyors), Dillaye Mem. bldg
Newkirk, W. H., 807 Montgomery
O'Brien, Dan'l, 1722 Park
Schnauber, Frank J. (Consulting), Kirk bldg
Soule, Howard
Strong, E. S., City Hall
Watson, W. J. & Co., Kirk bldg
Woodward, Wm. J., 307 E. Genesee
TARRYTOWN—Carpenter, Ward
Merritt, D. S.
Wulf, C. E.
TROY—Baltimore, Garnett D., 162 8th
Edwards, F., 369 Congress
Flynn, Jno. Jr., 83 3rd
Grimes, Edwin L. (City), City Hall
Halligan, Henry H., 201 Ferry
Leavenworth, Geo. S. (Chf. Engr. Powers & Mansfield Co.), 297 River
Mason, Wm. P., 156 1st
Powers & Mansfield Co., 280 River
TUPPER LAKE—Langlotz, Robert (M. E.)
UTICA—Allen, Chauncey L. (Vice-Pres. & Gen. Mgr. Syracuse Rap. Trans. Ry. Co.)
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Hanson & Garrow, Beck bldg
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Hegardt & Clarke, Board of Trade bldg
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Kilbourne & Clark (Consulting), Couch bldg
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Maginnis, T. F., McKay bldg
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Ohlhoff, August, 325 Sheridan
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Farren, Ernest L., 341 4th av
Felkel, Frank, 1234 Greenfield av
Fickes, Edwin S. (Chf. Engr., Aluminum Co. of Am.)
Fohl, W. E. (Consulting Mining, Coal & Coke, etc.), Farmers' Bank bldg
Gilfillian, Geo. A. (Consulting), 341 4th av
Glafey & Plagwitz (Consulting)
Gudmundsson, Gesle, Empire bldg
Hallam, F. F., 237 4th av
Harrop, Hopkins & Taylor, Lewis blk
Harshbarger & Wilcox, Fulton bldg
Hogg, Jas. B. (Civil & Mining), Park bldg
Hulbert, E. C., Lewis bldg
Hunt, Robert W. & Co. (Consulting & Testing), 213 6th av
Hyde, Chas. (Consulting), 316 4th av
Johnson, Thos. H. (Cons. Engr., Penna. Lines W. of Pitts.)
Jordan, Jas C., 341 4th av
Kennedy, Geo. B., 9th & Liberty av
Kennedy, Julian (Consulting, Furnace & Steel Wks, Construction), Bessemer bldg
Kennedy, Walter (Consulting, Steel Works, M. E., etc.), Besemer bldg
Kennedy, Wm. H., 400 Atlantic av
Klinck, John H., 123 N Negley av
Kerr, B. A., Berger bldg
Knopf, Herbert K., Fulton bldg
Langenheim, G. C., 61 Riverview av
Laub, Herman, Lewis blk
Layton, Hudson F. (& Consulting), 413
Layton & Layton, 413 4th av 4th av
Lehman, Geo. M., Frick bldg
Lewis, Harris J., Magee bldg
Libby, J. T., 6104 Penn. av
Lippincott & McNeil (& Mining), 432 Diamond
Lucius, E. C. & F. J., Hartje bldg
McBride, Jno., 331 4th av
McCabe, Junius D., 341 4th av
McClintock, J. C., 341 4th av
McCully Eng. Co. (& Mining), Berger bldg
McGrew, Jno. & Edw., Empire bldg
McIntyre, Jno. B., Frick bldg annex
McRoberts, Jas. H. (Consulting), Farmers'
Maneese & Earl, 424 4th av Bank bldg
Melber Co. (Consulting), Second National Bank bldg
Milholland, Jas. H., Shannon bldg
Mobley, Watson C., 5436 Ellsworth av
Moore, L. C. (Consulting), 525 Fulton
Morse, E. K. (Consulting), Commonwealth
Mullen, Jas. I. Co., 309 4th av bldg
Neeld, Almos D., 237 4th av
Nelson, James A., Westinghouse bldg
Newell Engineering Co.( Consulting), Em-
Newton, L. W., Wabash bldg pire bldg
Nielson, L. H. Co. (Contracting), Oliver Power bldg
Ostrom, Jno. N. (Bridge Engr.), Farmers'
Owens, C. E., 425 4th av Bank bldg
Parkin, Wm. M. (Mining), Columbia Bank
Patterson, J. W., 331 4th av bldg
Pihl & Miller (Consulting), Wabash bldg
Ralston, Stewart H., 6370 Aurelia
Rankin, H. H., Park bldg
Rayburn, J. M. (Mining), House bldg
Reed, W. Edgar (Consulting), Machesney bldg
Robinson, J. R. (Mining, Ventilating, etc.), Diamond Bank bldg
Roessing, F. M., Ferguson bldg
Ross, Florian G. (Consulting; Natural Gas Plants, Waterworks, etc.), Farmers Bank bldg
Rutherford, Brabazon (Consulting), 200 9th
Rutledge, J. J. (Consulting Mining), 40th & Butler
Schellenberg, F. F., 1139 Murray Hill av
Schellenburg, F. Z., 5746 Howe
Schreiber, Johnson & Risacher, Keystone bldg
Schultz, Albert L., 817 N Highland av
Scott, G. E., Wabash bldg
Shaw, A. G., Magee bldg
Simpson, Geo. H., 434 Shady av
Smith & Lewis, Park bldg
Smythe, S. R. Co. (Consulting), Steel Works, etc.), House bldg
Steiner, G. A. (Mining), 313 6th av
Strong, Carlton, Bellefield Dwellings
Stuart, J. L. (Contracting), 341 6th av
Summit Eng. Co. (Consulting), House bldg
Swensson, Emil (Constructing & Consulting)
Taylor, Chas. E., 7 Wood Frick bldg
Taylor, D. M. (M. E.), 209 9th av
Taylor, S. A. (Consulting & Mining),
Tracy, L. D., 245 4th av Lewis blk
Trefall, G. M., Machesney bldg
Trimble & Miller, 435 4th av
Vollkommer & Co. (Steel Structural Work, Complete Mfg. Plants), Empire bldg
Wakefield, W. S. (& Surveyor), 319 3d av
Walthers, Chas. F., Fulton bldg
Watkins, Clarence B., 238 4th av
Westinghouse, Church, Kerr & Co. (Contracting), Union Bank bldg
Westinghouse, George, Westinghouse bldg
White, Jas. D. (Consulting), Empire bldg
White, Wm., Jr. (Consulting), Empire bldg
White & Wemer, 424 4th av
Whitmore, Homer E. (& Surveyor), 6503 Meadow
Wickersham & Skipp, 326 4th av
Wilkins, Wm. G. Co. (Consulting, Bridges, Railroads, Water Works, Sewers, Mill Buildings, Collieries & Coke Ovens), Westinghouse bldg
Wolff, F. O., 1201 Carson
Weil, Isaac (Mining), Farmers Bank bldg
Wyss-Thalman Mfg. Co., Wabash bldg
Young, Alfred K., Farmers' Bank bldg

PITTSTON—Berry, J. W., 1st Nat'l B'k bldg
Collins, H. G., 311 Spring, W. P.
Dickey, Edwd. P., 205 York, W. P.
Griffith, Wm., 405 River av, W. P.
Meyers, Harry, Miners' (City), Savings Bk.

PORT CARBON—Allison, Robert (M. E.)

POTTSTOWN—Shaner, R. E.
Wangner, G. F. P.

POTTSVILLE—Althouse, Harry A. (M. E.)
Clemens, Frank G., Hause bldg.
Cochran, A. B. & Son
Geary, J. W., 26 S Centre
Pugh, Wm. S., Morris bldg
Thompson, H. S., 102 S Centre
Womelsdorf, A. J., 102 S Centre

PUNXSUTAWNEY—Coulter, Eli (City)

QUAKERTOWN—Ommerin, J. V.

READING—Beard, E. H. (City), City Hall
Brown Engineering Co. (Consulting & Con-
Dechant, Wm. H., 536 Penn structing)
Hull, G. A., 529 Court
Karns, W. H., Colonial Trust bldg
Kendall's, H. T. Sons, 24 N 6th
Nolan, T. G., 1046 N 5th
Nuebling, Emil L. (Supt. & Eng., Dept. of Water)
Ulrich, E. B. (& Surveyor), Baer bldg

REYNOLDSVILLE—Smith, J. S.

RIDGWAY—Little, Horace
Morgan, John
Norton, Homer B. (Chf. Engr. Elk Tanning Co.)

RIDLEY PARK—Darrach, Chas. G. (Consult-
ROCHESTER—Leaf, James P. ing)

ST. MICHAEL—Brackett, F. E. (Mining, Coal)

SCRANTON—Archbald, Jas. (Consulting), 424 Jefferson av
Barnard, Montrose, Republican Bldg.
Bartl, Edmund A. (Mining), Connell bldg
Bleitt, Patrick (Mining), Library Bldg.
Dunning Engineering Co. (Consulting & Mining), Mears bldg
Griffith, Wm. (Mining), Coal Exchange bldg
Harding, H. L. (Mining), Connell bldg
*Harris, John J., 438 Breck
Lawall, Elmer H. (Mining), Inter. Text Book Co.
Leighton & Davis (Mining), Coal Exchange bldg
Luzerne Engineering Co. (& Mining), Board of Trade bldg
Marple, Wm. McK. (Chf. Engr. Scranton Gas & Water Co.)
Mattes, Wm. F. (Consulting & Mining), Commonwealth bldg
May, Wm. A. (Gen. Mgr. Hillside Coal & Iron Co.), Box 553
Phillips, Joseph M. (City), Municipal bldg
*Poore, J. B., 1730 Capouse av
Sadler, W. H., 2067 N. Main av.
Schaar, Christian H., 2073 N. Main av.
Sanderson, J. G. (Mining), Mears Bldg.
Stevenson & Knight (C. E., Mining & Surveyor), Connell bldg
Thompson, C. W., Jr. (Mining), Library bldg
Wolfe, Frank G. (Mining), Board of Trade bldg

SELINSGROVE—Richter, H. E.

SEWICKLEY—Hirst, T. H.

SHAMOKIN—Douty, Charles H.
Lorenz, F. William

SHARON—Jenkins, M. W.
Nichols, James

SHENANDOAH—Glover, D. T.
Gregory, W. G. (City)

SHOEMAKERSVILLE—Seidel, A. S.

SLATINGTON—Oplinger, G. T.

SOUTH BETHLEHEM—McKibben, Frank P. Prof. of C. E., Lehigh Univ.)
Neumeyer, R. E. (City)
Webster, Chas. E. (Consulting)

SPRING CITY—Rhoades, Isaac P. (Borough)

STATE COLLEGE—*Reber, Louis E. (Dean School of Eng'r, Pa. State College)

STEELTON—Earle, Thomas
Reynders, John V. W.

STROUDSBURG—Appenzeller, J.

SUNBURY—Keefer, George F.
Lenker, William G.

SWARTHMORE—*Barth, Carl G., Box 714

TARENTUM—Retherford, G. L.

TOWANDA—Bull, Hiram E.

TUNKHANNOCK—Cook, George

TYRONE—Henry, J. L.

UNIONTOWN—Gans & Dunn
Porter, Geo., Jr. (& Mining)
Whyel, Geo. & Co.

VERONA—Frease & Sperling (City)

VINTONDALE—Smith, Stewart K. (Gen. Mgr. Vinton Colliery Co.)

WARREN—Cornelius, L. D.
Crary, H. A.
McPherson, G. W.
Parshall, M. C.
Rogers, Alson
Wheeloock, D. F. A. (City)

WASHINGTON—Ruple, J. C.
Wyle, Wm.

WAYNE—Mifflin, G. B.

WAYNESBORO—Weller, D. C.

WAYNESBURG — Dinsmore & Jenkins (Surveyors)
Throckmorton, John

WELLSBORO—Hardt, Anton

WEST CHESTER—Marshall, Sam'l (Surveyor)
Strickland, Marcellus (County)

WEST NEWTON—Van Kirk, J. S.

WHITE HAVEN—Wallace, Samuel (Est. of)

WILKES-BARRE—(All Mining Engineers)
Abbott & Howells
Alleger, W. B.
Dodge & Hughes, 3 Wyoming Bk. bldg
Hand, Alfred, 20 City Hall
Hartwell, Ira E., Laning bldg
Hughes, D. F., 240 Northampton
Ingham, Wm. V. (City Eng'r), 20 City Hall
Norris, Robert Van A. (Consulting)
Post, Edw. H., Bennett bldg
Reets, Harry S., 3 S Franklin
Rutter, N. B., Laning bldg
Smith, H. S., Coal Ex. bldg
*Straw, Chas. A., 80 W Rose
Sturtevant, Wm. H., 18 N Franklin

WILKINSBURG—Frease & Sperling (& Con-
Harlow, Jas. & Co., 701 Wood sulting)
Hawley, Wm. C. (Chf. Engr. & Gen. Supt. Penna. Water Co.)
*Rose, Edw. E., 442 West
Taylor, S. A., 721 Whitney av.

WILLIAMSPORT—Eldred, E. J. (Surveyor), 333 Market
Fairies, R. H., 315 Mulberry
Otto, John B., 234 W 4th
Russell, E., Court House

YORK—Aldinger, Samuel S.
Ide & Heiges
McKinnon, Robert B.
Mayer, Lewis C.

## PHILIPPINE ISLANDS.

MANILA—Higgins, Horace L. (Engr.-in-Chf. Manila R. R. Co.)
Hubbell, Clarence W. (City)
Ingalls, Owen L. (Engr. in Chg. of Manila Sewerage System)
Shuman, Edward P. (Div. Engr. Bureau of Public Works)
Wrentmore, Clarence G. (care Bureau of Public Works)

## PORTO RICO.

GUAYAMA—Hall, Benj. M. (Chf. Engr. Porto Rico Irrig. Service)

PONCE—Domenech, Manuel V., P. O. Box 220
Harris, Van Alen

## RHODE ISLAND.

ARLINGTON—Francis, Henry N.

BRISTOL—Brownell, Ernest H.
Perry, Wm. H.

CENTRAL FALLS—Keene, Wm. F. (City)

EAST PROVIDENCE—Dexter, Walter M.

NARRAGANSETT PIER—Hazard, T. G., Jr.
Kent, Willard (& Surveyor) (& Surveyor)

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NEWPORT—*Bryant, George H. (Principal, Townsend Industrial School)
Buffum, Wm. P., 301 Thames
Cotton, Joseph P., 201 Thames
Lawton, William H., Jr., 24 Bellevue av.
PAWTUCKET—Drowne, F. E., 82 Elm
Judson, Jno. E., 155 Main
Learned, Chas. H.
Smart, H. R.
PROVIDENCE—*Almy, Darwin, 178 Allen av
*Babbitt, George R., 182 S. Water
Ballou, H. W., Banigan bldg
*Beaman, E. A., Gordon av c Reynolds
Burlingame, Edwin A., 359 Brook
Chase, Charles F., 75 Westminster
Clapp Otis F. (City), City Hall
Cruikshank, D. B. (Consulting), 33 Eddy
Dawley, Edw. P. (Consulting), Banigan bldg
Evans, Thos. (Consulting), 75 Westminster
Gray, Saml. M. (Consulting, Municipal & Sanitary), Banigan bldg
Hill, John E. (Prof. of C. E. Brown Univ.)
Hurley, D. & Co. (Consulting), 17 Custom House
*Johnson, Henry J. (Consulting), 28 Maple
Latham, Fred. J., 146 Westminster
Latham, Jos. A. (& Surveyor), 87 Weybosset
Leland, Geo. H., Banigan bldg
Lewis, W. B. (Consulting), Banigan bldg
Makepeace, C. R. & Co., 429 Butler Ex.
Sarle, O. Perry (Consulting, Water Supply, Drainage, etc.), 146 Westminster
Schofield, Mark W., 29 Exchange
Shedd, Edw. W. (& Hydraulic), 146 Westminster
Shedd, J. Herbert (Consulting), 146 Westminster
Sheldan, F. P. & Co. (Mill, Hydraulic & Electrical Engineers), 49 Westminster
Temple, Wm. H. G. (& Hydraulic), 75 Westminster
Tingley, Richard H. Co. (Consulting), 75 Westminster
Waterman, Frank E. (& Surveyor), 86 Weybosset
Weston, Edmund B. (Consulting, Water Supply, Filtration, etc.), 86 Weybosset
WARREN—Corbett & Borden
WARWICK—Barton, H. B.
WESTERLY—Whaley, Earl C.

## SOUTH CAROLINA.

ANDERSON—Sayre, C. G
Stribling, J. V.
CHARLESTON—Dingle, J. H. (City Surveyor), Simons-Mayrant Co., 16 Broad City Hall
Sloan, Erie (M. E.)
Todd, A. W., 39 Broad
COLUMBIA—La Motte, A. Gamewell, 1521 Main
Miller, D. B. (City)
Niernsee, Frank, 1429 Main
Shand, Gadsden E., 1831 Pendleton
Stoney, S. Reed
Wilson, Chas. C.
GREENVILLE—Feltham, Percy M.
ORANGEBURG—Johannen, Henry H.
ROCKHILL—Roddey & Whitner
SPARTANBURG—Howe, W. B. W.
Ladshaw & Ladshaw (Consulting, Civil, etc.)

## SOUTH DAKOTA.

ABERDEEN—Washburn, D. C.
DEADWOOD—Ames, G. P.
Black Hills Eng. Co.
Hartgering, Jas.
Hickox, J. R.
Peck, Frank
Phillips, Alvin & Co.
Vincent, H. S.
ELK POINT—Vinson, W. M.
HOT SPRINGS—Utter, A. H.
HURON—Fessenden, G. A.
LEAD—Crick, J. P.
Gidley, A. B.
Schnitzel & Moody
Walsh, W. M.
MADISON—Gregor, John
MITCHELL—Dakota Engineering Co. (Consulting)
Greene, Israel
PIERRE—Lea, Samuel H. (State Engr. of S. Dak., Superv. Engr., State Capitol)
RAPID CITY—Willsie, Myron
SIOUX FALLS—Howe, S. B.
STURGIS—Ladd, G. W.
TYNDALL—Young, J. C.
VERMILLION—Gunderson, Carl
WTTERTOWN—Carpenter, G. W.
WEBSTER—Alley, Josephus
YANKTON—Bates, C. H.
Van Antwery, E. H.

## TENNESSEE.

BRISTOL—Aldrich, Arthur C.
Lockhart, J. W.
Mitchell, W. L.
CHATTANOOGA—Cushman & Farleigh, Loveman bldg
Dietz, O. A., 817 Georgia av
Hooke, Robt. (City)
Jenkins, Wm. D., Lock Box 317
Moe, S. B., Times bldg
CLARKSVILLE—Marble, J. H.
COLUMBIA—Watson, Wm. P.
GREENVILLE—Rhea, J. P.
JACKSON—Campbell, F. W.
Farrar, H. P. (Consulting)
Lancaster, S. C.
Mercer, J. W.
Merriwether, David
JOHNSON CITY—Molesworth, A. N.
KNOXVILLE—Crozer, W. C., 1129 N 4th
Hudson, C. H. (Consulting), 1021 Circle Park
Park, W. A., City Hall
Jarvis, Royal P. (Consulting Mining & Metallurgical), University Sta.
Phillips, F. G., 1002 N Broadway
Waring, Charles, 308 W Clinch av
Wilson, Chas. B. (Supt. Foster-Creighton-Gould Co.)
Wilson, Edwood J. (Mining), 712 N 4th
McMINNVILLE—Rowan, Stokey D.
MEMPHIS—Ayers, W. E., Randolph bldg
Barton, C. A., Odd Fellows bldg
Beennan, H. W., Byrd bldg
Coppage, E. J., 823 Miss. blvd
Ewen, John M. C., Tenn. Trust bldg
Ferguson, J. T., Bank of Com. bldg
Ferree, H. G., 12 S 2d
Gardner & Howe (& Consulting & Contracting), 51 Dr. D. T. Porter bldg
George Co., Randolph bldg
Hayden, Wm. W. (Chf. Engr. Lake View Traction Co.), N. Memphis Sav. Bk. bldg
Humphreys, J. H., 10 N Front
Moody, W. H., 592 Marshall
Pharr, H. N. (Consulting), Randolph bldg
Richardson, R. B., Randolph bldg
Richardson, St. George, Court House
Shearer, Charles E., Randolph bldg
Tutwiler, Thos. H. (Pres. & Gen. Mgr. Memphis St. Ry. Co.)
Walker, S. G., Court House
MURFREESBORO—Maney, Newton C.
NASHVILLE—Blackie, G. F., 1000 B'way
Engineering Ass'n of the South, 2 Berry blk
Dyer, Arthur J. (Chf. Engr. Nashville Bridge Co.)
Foster, Wilbur F., 1702 West End av
Foster & Creghton, 3 Berry blk
Howard-Motz Co. (M. E.), The Arcade
Jones, Howard M., Cole bldg
Locke, Chas. A., 1805 Belmont Circle
McDonald, Hunter (Chf. Engr. N. C. & St. L. Ry.), Terminal bldg
McDonald, Wm. N., Stahlman bldg
Smith, F. R. R., 411½ Union
Southgate, W. W. & Son, 407½ Union
OLIVER SPRINGS—Butler, M. D. F.
RIPLEY—Gudger, M. W.
ROCKWOOD—Sylvester, Geo. E. (Mining & C. E.)

## TEXAS.

ALTURA—Russell, Wm. G.
ATHENS—Meredith, J. T.
AUSTIN—Andrewartha, John
Corwin, Dennis, Temporary Capitol bldg
Gildart, Frank, 701 Congress av
McFall, J. K., 95 East av
Matthews, S. P., City Hall
Phillips, Wm. B. (Mining), Univ. of Tex.)
Pluckney, T. F., Temporary Capitol bldg
Taylor, Thos U. (Prof. of C. E. Univ. of Tex.)
Wyard, J. R., 14 Congress av
BAIRD—Haley, M. R.
BALLINGER—Blanchard, C. C. F.
Dickinson, H. E.
BASTROP—Moncure, Cassius L.
BEAUMONT—Scherer, Clinton L.
BEEVILLE—Fenner, R. W.
BELLVILLE—Cumings, George S.
BELTON—Bigham, R. P.
BIG SPRINGS—Boydston, Benjamin
Cowan, S. H.
BRENHAM—Von Biberstein, H. R.
BROWNSVILLE—Cocke, J. I.
BROWNWOOD—McIntosh, W. A.
BRYAN—Mitchell, J. P.
BURNET—Chamberlain, T. A.
Moses, E. J.
CALDWELL—Dalrymple, J. G.
COLEMAN—McElrath, J. A.
COLORADO—Earnest, C. H.
Holt, C. W.
Looney, R. H.
Shepherd, J. L.
COMANCHE—Armstrong, R. G.
Holman, J. A.
COOPER—Stratton, T. L.
CORPUS CHRISTI—Blucher, C. F. H.
CORSICANA—Johnston, Horace G. (Pres. & Gen. Mgr. Am. Well & Prospecting Co.)
CUERO—Schleicher, Gustav
DALLAS—Arthur, Howard, E. (Chf. Engr. Mosher Mfg. Co.)
Brown, C. E., 204 Main
Hopkins, Louis H., 237 Main
Jones, Fred A., Scollard bldg
Lang & Witchell, Wilson bldg
Thatcher, J. S., 301 Main
Wathen, Benj. S. (Chf. Engr. Tex & Pac. Ry.)
DEL RIO—Pierce, J. K.
DENISON—McWillie, Richard L.
DENTON—Pierce, W. H.
EL PASO—Botsford, C. W. (Mining)
Brodie, Walter M. (Mining)
Burt, Edwin (Mining & Metallurgical)
Canby, R. C. (Consulting)
Cook, Wm. H. (Consulting, Mining)
De Vore, E. H. (Mining)
Fishback, Martin (Consulting Mining)
Hardy, J. Gordon (Consulting Mining)
Hines, Rue N. (Mining)
Parker, A. H.
Parker & Parker (Mining & Consulting)
Rice, John A. (Mining), Mills bldg
Todd, Frank H. (City)
Tomlinson & Norton (Consulting & Mining) Trust bldg
Wimberly, George C.
FORNEY—Lewis, P. M.
FORT DAVIS—Patterson, H. M.
FORT WORTH—Baker, Brookes
Darter, Jno. H., 711 Main
Dickson. H. M., City Hall
Goodfellow, Jno. J. (Surveyor), Court House
Hawley, J. B. (Consulting), City Hall
Zane-Getti, 1005 Calhoun
FREDERICKSBURG—Schuchardt, J.
GAINESVILLE—Brozelton, S. J.
Hulen, Harvey
GALVESTON—Anderson, Thos. J. (Consulting), 2118 Strand
Hartrick, E. M., Trust bldg
Hoxie, A. (Co. Surveyor), Court House
Luttrel, R. W., 709 Tremont
Parker, Wm. P. (Chf. Engr. A. M. Blodgett Const. Co.), Security bldg
Riche, C. S., Trust bldg
Sias, C. A., 2205 Strand
Stubbs, Linton W. (Super. Engr. Galveston Causeway)
Temple, B. M., Court House
Wilson, Henry T., 1419 B'way
Young & Cohen (M. E.), 2409 P. O.
GATESVILLE—Graves, C. L.
GREENVILLE—Morgan, J. H.
HALLETSVILLE—Ballard. James
HEMPSTEAD—Elliott, B. F.
HENDERSON—Stone, W. D.
Wooley, J. M.
HENRIETTA—Watkins, R. W.
HOUSTON—Alsbury, E. P. & Son, Temple bldg
Berry, James H., Converse bldg
Boyles, J. S. & Co. (Consulting), Moore-Burnett bldg
Bradburn, Wm., 1615 Hutchins
Burk, Jas. S., 614 Farmin
Cochran, Jerome Co. (Consulting), 1st Nat'l Bank bldg
Delery, W. S. & Co., 1st Nat'l Bank bldg
Dormant, Frank L. (Consulting), City Hall
Drumheller, Geo. W., 1st Nat'l Bank bldg
Finch, H. J. Wadsworth, 614 Farmin
Horton, Geo. F. (Surveyor), Prince Theatre bldg
Howe & Wise (Consulting), Com. Bk. bldg
International Engineering Co. (Consulting), Prince Theatre bldg
Jones, Fred A. & Co. (Consulting), Chronical bldg
Kendall, Fenwick F., Commercial Bk. bldg
Lohaus, R. A., 10 N E Chartres
McCarthy, P. A. & Sons (Consulting Civil & Drainage Irrigation & Water Service, Power Plants, Bridges, Railways, etc.),
McGregor, Flint, 502 Travis Camp bldg
Mahaffey, Thos. J. (County Engr.), Prince Theatre bldg
Matthews, Saml. P., 1603 Carolina
Maxcy, John W Co. (Consulting), Scanlan
Miller, I. Austin, 1015½ Preston av bldg
Nichols, Edwin J. (Supt. for Horton & Horton). Prince Theatre bldg
Peden-Eller Co., 1st Nat'l Bk. bldg
Pennington, Harry, Scanlan bldg
Schlafli & Porter Co., Stewart bldg

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Stimson, Arthur E., 1801 Genesee
Stoner, John H., Fox bldg.
Tarver, Thos. C., Jr., City Hall
Thacker, Rich. B., Binz bldg
Tolman Eng. Co., 1st Nat'l Bank bldg
Von Streeruwitz, Wm. H. R., 506 Travis
Waldo, Wilmer, Commercial Bk. bldg
White, L. A., Commercial Bk. bldg
Wiley, W. R., Scanlan bldg
Wintrey, J. M. Engineering Co. (Consulting), Stewart bldg
Zivley, Van N., 1st Nat'l Bk. bldg

KAUFMAN—Barnes, W. H.
Kyser, H. W.
KERRVILLE—Doris, J. H.
LA GRANGE—Vogt, A.
LAMPASAS—Brown, Ephraim
LAREDO—De la Garzo, Cayetano
Foster, Arthur
LONGVIEW—Terry, E. S.
McKINNEY—Byrne & Wilson.
Noyes, C. W.
MARLIN—Hunnicutt, R. S.
MASON—Bierschwale, Charles
MERIDIAN—Weeks, J. N.
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MOUNT PLEASANT—Dillahanty, C. L.
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Smith, Charles P. & Co., 417 Navarro
Thomson, Edw. (Consulting Mining), Mackay bldg
Welsh, Norval J. (Mining)
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SHERMAN—Hopson, Joseph P.
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Tomlinson, S. G.
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## UTAH.

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Wegener, O. F., 730 Lakeview av
White, C. L., N. Y. bldg
Wilbur, C. H. (Mining), 1122 E Denny way

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SNOHOMISH—Leque, Peter
Lenfest, Elmer
Niles, H. P.

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Hough, Feller & Brown (& Surveyor), Hyde blk
Hughes, J. J. (& Surveyor), 521 Nora av
Jabelonsky, C. H. (& Surveyor), Peyton
Kehoe, Henry (Mining), 1123 S Wall bldg
Knight, S. H. (& Surveyor), 9309 Wall
Lupler, Alex. McC. (Chf. Engr. Spokane & Inland Empire R. R. Co.), Terminal bldg
McCoy, Samuel A. (Boynton, Church & McCoy), 1618 W 11th
McIntyre, Chas. (& Surveyor), Jamieson bldg
Mesick, Fred P. (& Surveyor), Ex. Bk. bldg
Miller, W. Clayton (Mining)
Mogensen, Peter, Columbia bldg
Moore, Wm. E. (Consulting), Peyton bldg
Nagle, R. C. (Bridge & Structural), Paulsen bldg
Northwestern Engineering Corporation
Phillips, J. E. (& Surveyor), 1 214 Lacy
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Sylvester, Frank Mc C. P. O. Box 1871
Symonds, E. M. (& Surveyor), Hulton bldg
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Findlay, Chas. O.
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Pettigrew, Thos. W. R. R.)

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MAYBEURY—Stow, Audley H. (Consulting, Civil & Mining; Specialty Coal Lands)

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Hall, Wm. McL., Union Trust bldg

SISTERSVILLE—Benton, E. L.

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WHEELING—Gilchrist, James, Elm Grove
Hix & Hearne, 1400 Chapline
Kirker, L. S., Mutual Bank bldg
Lohse, Chas. W.
Miller, E. J., Peabody bldg
Smith, Clemence C., 30 14th
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Chase, Geo. H. (Mining), 730 Hackett
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Engel, Theo. C. (Surveyor), 301 15th
Geist, Jno. (Consulting), 428 Grand av
Hanmer, 951 30th
Hirschberg-Williams Washburn Co., Stephenson bldg
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Poetsch, Chas. J. (Pres. Board of Public Works), City Hall
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Schneider, Fred. (& Surveyor), 468 Washington
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Weed, M. B. (Mining)

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Friel, L., 215 Stimson bldg
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SAN FRANCISCO—Allardt, Geo. F., 420 California
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Bromfield, Davenport, 3 Mills bldg
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Cumming, Geo. & Co., 18 Fell
Dillman & Wallace, 722 Montgomery
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Livermore, Norman B. & Co., Metropolitan Bank bldg
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Vischer, Hubert, Flood bldg
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Welton & Bonnett, 77 Bank

### DELAWARE.

WILMINGTON—Hatton, T. Chalkley (Consulting)

### FLORIDA.

JACKSONVILLE—Le Baron, J. Francis

### GEORGIA.

ATLANTA—Hall Bros., 409 Temple Court
Walker, A. F., Austell bldg

### ILLINOIS.

BLOOMINGTON—Bell & Melluish
Brown, Chas. Carroll
CHESTER—Smith, Isaac A.
CHICAGO—Alvord & Burdick (Consulting), 140 Dearborn
Ashley, Burton J., 6515 Normal av
Cole, John A. (Consulting), 59 Clark
Mead, D. W. (Consulting), First Nat'l B'k bldg
Morgan, Geo. Cadogan, 169 Jackson boul
Union Engineering & Construction Co., 1st Nat'l Bank bldg
PEORIA—Maury, Dabney H. (Consulting), 129 N Jefferson

### INDIANA.

ELKHART—Beardsley Gravity Dam & Construction Co.
INDIANAPOLIS—Brown, Chas., 1560 E Market
Hainsworth, Jno. J., Commercial Club bldg
MARTINSVILLE—Phillips & Goss
TERRE HAUTE—Grimes, Geo. R., 521 Ohio

### IOWA.

CEDAR RAPIDS—Merridith, G. H.
Wardle & Yeager
Warriner, Thos. R.
Wynn, Geo. W.
CLINTON—Iowa Engineering Co.
DES MOINES—Schreiner, B., 1445 Maple
DUBUQUE—Tschirgi, M., J., City Hall

### KANSAS.

TOPEKA—Hinckley, H. V.
Tweddle, Wm.

### KENTUCKY.

LOUISVILLE—Butler, Pierce, Norton bldg
Gray Construction Co., Walker bldg
Hermany, Chas. (Consulting, Water Works, etc.)
NEWPORT—Hormung, Geo.
PADUCAH—Stickney, G. F.

### LOUISIANA.

NEW ORLEANS—Brown, Linus W., 741 Carondelet

### MARYLAND.

BALTIMORE—Adams, Henry (Consulting), Calvert bldg
Wehr, Walden & Dukehart, Continental bldg.

### MASSACHUSETTS.

BOSTON—Ambursen Hydraulic Cons. Co. (Engineers & Contractors), 176 Federal
Blake, Geo. F. Mfg. Co., 42 Battery-March
Felton, B. R., 1121 Tremont bldg
Fuller, Frank L., 12 Pearl
Gowing, E. H., 12 Pemberton sq
Hawes, Louis E., 101 Tremont
Knowles Steam Pump Works, 42 Battery-March
Lockwood, Green & Co., 93 Federal
McClintock & Woodfall, 15 Court sq
Metcalf & Eddy, 14 Beacon
Pierce & Barnes, 7 Water
Snow & Humphreys (Consulting), 85 Water
Stone-Webster Engineering Co., 147 Milk
Webber, W. O., 53 State
Wheeler, Wm., 14 Beacon
BROCKTON—White & Wetherbee
HOLYOKE—Ellsworth & Howes (Consulting)
Mann, T. W.
Tighe, Jas. L., 255 High
LAWRENCE—Sjostrom & Franklin, 316 Essex
NORTHAMPTON—Davis, E. G. & E. E.
SALEM—Metcalf & Ashton, 39 Church
SPRINGFIELD—Merrill, Geo. N. & Co. (Consulting), 274 Main

### MICHIGAN.

BAY CITY—Thompson, Hy. C.
KALAMAZOO—Pierson, George S.

### MINNESOTA.

MANKATO—Haynes, M. B.
MINNEAPOLIS—Coppelen, F. W., Oneida blk
Fanning, J. T. (Consulting), 603 Kasota bldg
ST. PAUL—Loweth & Wolff, 1st Na't B'k bldg

### MISSOURI.

KANSAS CITY—Burns & McDonnell, Scarritt bldg
Kleasted, Wynkoop, Water Works bldg
ST. LOUIS—Boyce, W. D. Engineering Co., Chemical bldg
Bryan, Wm. H., Lincoln Trust bldg
Phillips, Hiram, Frisco bldg
Russell S. Bent, Security bldg

### MONTANA.

GREAT FALLS—Whitten, B. D., Phelps blk

### NEBRASKA.

OMAHA—American Engineering Co., Bee bldg
Rosewater, Andrew, City Hall

### NEW HAMPSHIRE.

CHARLESTON—Webber, Samuel
MANCHESTER—Dudley & Doherty
Gay, Frank A.

### NEW JERSEY.

NEWARK—Field, Wm. P., 763 Broad
McMurray, Eugene A., 22 Clinton
PASSAIC—Wise & Watson

### NEW YORK.

ALBANY—Judson, Wm. Pierson (Dep. State Eng.), State Capitol
Russ, Herman H. & Sons, 121 State
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bassett, Geo. E., 290 Terrace
Buffalo Engineering Co., Erie Co. B'k bldg
Guthrie & Diehl, 836 Ellicott sq
Sikes, F. G. & G. R., 871 Ellicott sq
Witmer, J. E., 705 Ellicott sq
KINGSTON—Longyear, Orson C. (Consulting)

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Hill, W. R. (Consulting, Water Works), 246 6th av

#### Boroughs of Manhattan & Bronx.

NEW YORK—Bauer, Jacob Louis, 21 Park row
Brinckerhoff, H. Waller, 45 B'way
Cole, Edw. S. (Consulting), 220 Broadway
Du Mazuel, E. G. F., 41 Wall
Foye, Andrew E., 20 Broad
Fuertes, Jas. H., 140 Nassau
Fuller, Geo. W., 170 B'way
Greene & Greene, 11 B'way
Hamshaw, F. T., 220 B'way
Hazen, Allen, 103 Park av
Hering & Fuller (Consulting), 170 B'way
Leavitt, Chas. W., Jr., 220 Broadway
Morton, Walker S., 2 Rector
O'Rourke, Jno., 3d av, cor. E. Tremont av
Philips & Worthington, 90 West
Potter, Alex., 143 Liberty
Reid, Thornburn, 91 Wall
Sanderson & Porter (Consulting), 52 William
Stevens-Hewitt Eng. Co., 11 William
Tingley, Richard H. Co., 30 Church
Tribus, Louis L., 84 Warren
Vermeule, Cornelius C., 203 Broadway
Wallace, Jos. H. & Co. (Consulting), 5 Beekman
Waring, Chapman & Farquhar, 874 B'way
POUGHKEEPSIE—Brevoort, B. H., 54 Market
ROCHESTER—Kulchling, Emil (Consulting),
ROCHESTER—Kulchling, Emil (Consulting).
ROME—Knight & Hopkins 209 N Clinton av
Stanwix Engineering Co.
SYRACUSE—Beach, Henry T., City Hall
Hodgkins, H. C., Kirk bldg
TROY—Cary & Roemer, Times bldg
Hicks, C. E., 567 2d av
Ricketts, Palmer C., 17 1st
UTICA—Babcock, Stephen E., Mann bldg
Baxter, Francis K., 46 Arcade
WHITE PLAINS—Brynes & Darling
YONKERS—Christian, G. L.
Gould, E. Sherman

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### NORTH CAROLINA.

CHARLOTTE—Black, Fingal C.
Knox, H. E.
WINSTON SALEM—Ludlow, J. L.

### OHIO.

BELLEFONTAINE—Glan & Fisher
CINCINNATI—Bouscaren, G., 322 W 4th
Layman, E. F., 32 E 3d
Rugg, J. K. & Co., 340 Main
CLEVELAND—Kingsley, M. W., 41 Central av
Ritchie, Jas., Electric bldg
Roberts & Abbott Co. (Inc.), Schofield bldg
Wellman-Seaver-Morgan Co.
COLUMBUS—Snyder, Frank, 23 E State
Taft, J. A., 23 E State
GREENVILLE—Lucas, C. O.
MIDDLETOWN—Monjeau, C.
TOLEDO—Riggs & Sherman Co. (Consulting), The Nasby

### OREGON.

PORTLAND—Cunningham, J. H., 610 Chamber of Commerce
Henry, D. C. (Consulting), Spaldin bldg

### PENNSYLVANIA.

BRYN MAWR—Garrigues, Samuel M.
EASTON—Folwell, A. Prescott
JOHNSTOWN—Wilson & Kuhn
NEW CASTLE—Woods, F. R.
PHILADELPHIA — Albright, Chester E., 908 Cooper, Dyer, 614 N 3d. Land Title bldg
Dallett, W. P., 49 N 7th
Fisher, Wagner, Land Title bldg
Harrison & Schreiber, Harrison bldg
Loss, H. V., North Am bldg
Penna. Engineering Co. (Hydraulic Machinery), 1119 N Howard
Sellers, Coleman, 1301 Stephen Girard bldg
Young, Jos. H., Perry bldg
PITTSBURG—Audit Co. of New York, Frick bldg
Schinneller, Jacob, 331 4th
Taylor, S. A., Schmidt bldg
Wilkins, Wm. Clyde, Westinghouse bldg
READING—Dechant, Wm. H., 536 Penn
POTTSTOWN—Sands, Horatio, 245 Beach
POTTSVILLE—Clements, Frank G.
WILKINSBURG — Harlow, J. H. & Co., 701 Wood
YORK—York Engineering Co.

### RHODE ISLAND.

NEWPORT—Waring, Chapman & Farquhar
PROVIDENCE—Artesian Well & Supply Co., Banigan bldg
Chase, Chas. F., 75 Westminster
Gray, Samuel M., Banigan bldg
Makepeace, C. R. & Co., 429 Butler Ex.
Sarle, O'Perry, 146 Westminster
Shedd (Consulting), 146 Westminster
Sheldon, F. P. & Sons
Tingley, R. H., 75 Westminster
Weston, Edmund L., 86 Weybosset

### SOUTH CAROLINA.

GREENVILLE—Sirrine, J. E.
Lockwood, Green & Co.

### SOUTH DAKOTA.

MADISON—Smythe, W. R.

### TENNESSEE.

MEMPHIS—Dabney, A. L. (Consulting)
NASHVILLE—Schuerman & Brown

### TEXAS.

AUSTIN—McDonald, John & Sons, 706 Colorado
FORT WORTH—Hall Bros.

### UTAH.

SALT LAKE CITY—Hardesty, W. P., Progress bldg
Stevenson, C. L., Atlas blk

### VERMONT.

BURLINGTON—Lang & Goodhue Mfg. Co. (Also Contractors for Waterworks)

### WASHINGTON.

MOUNT VERNON—Darrach, Chas. G.
SEATTLE—Bogart-Bates Co., Pacific blk
Cassel Automatic Motor Co., D. H. B'k bldg
Robbins, Hallet R. (Power & Hydraulic Mining), Box 51
TACOMA—Hawks, A. McL.

### WISCONSIN.

APPLETON—O'Keefe & Orbison, Engineering & Consulting Co.
BARABOO—Kirshoffer, W. C.
BELOIT—Wheeler, W. H. & Co.

## Engineers (Industrial)

(See Engineers, Mill)

## 3327—Engineers (Inspecting & Testing)

Electric Testing Laboratories, 80th & East End av, New York
Gulick-Henderson Co., 30 Church, New York, & 315 Dearborn, Chicago, Ill.

## Engineers (Marine)

(See Architects, Naval)

## 3328—Engineers (Mechanical)

(See also Engineers, Civil, Consulting & Mining)

### ALABAMA.

AUBURN—Wilmore, Jno. J. (Ala. Poly. Inst.)
BESSEMER—Faull, Richard (Mech'l Eng. Tenn. Coal, Iron & R R Co.)
BIRMINGHAM—Crockard, Frank H. (V.-P. & Gen. Mgr. Tenn Coal, Iron & R R Co.)
Enslen, Eugene F., Jr. (Consulting, Elec. & Mech.), 2737 Highland av
Haddock, Edwin J. (Mech. & Structural Engr.), Brown-Marx bldg
Hardie, Wm. (Pres. Hardie-Tynes Mfg. Co.)
Hill, Robt. J. (Consulting), 1st National Bank bldg
Jones, Jno. W. S. (Pres. Birm. Sanitary Bed & Mfg. Co.), 9th av & 40th
Penruddocke, E. L. (Consulting)
Roberts & Schaeffer Co. (Consulting)
Ryding, Herbert Chas. (Asst. to V.-P. & Gen. Mgr. Tenn. Coal, Iron & R R Co.)
Schaefer, Jno. (V.-Pres. Schaefer Mfg. Co.)
Schoel, Hermann
Thornton, Wm. F., Marx bldg
Wells, Edw. C. (Supt. Hardie Tynes Mfg. Co.)
Zell, Robt.
DOTHAN—Steele, Ben Wadley (2d V.-P. & Asst. Mgr. Atlanta & St. Andrews Bay Ry.)
ENSLEY—Caine, Wm. Phillips (Steam Expert, Tenn. Coal, Iron & R R Co.)
MOBILE—Hall, Chas. A.
SHEFFIELD—Rust, Edw. Gray (Pres. Sheffield Coal & Iron Co.)
THOMAS—Johnson, J. J. E., Jr. (Gen. Supt. Republic I. & S. Co.)
UNIVERSITY—Sibley, Fred'k H. (Prof. Mech. Engrg., University of Ala.)

### ALASKA TERRITORY.

NOME—Gibson, Arthur (Consulting)

### ARIZONA TERRITORY.

DOUGLAS—Gillies, Wm. F., Box 286
MORENCI—Chester, C. P. (Supt. Morenci Water Co.)
TUSCON—Blake, Edwin Mortimer (Consulting Prof. Mech. Engrg. Univ. of Ariz.)
Cory, Harry T. (Asst. to Pres. Cananea, Yaqui River & Pacific Ry.)
Goodrich, Robt. B. (Prof. Metallurgy, Univ. of Ariz.)

### ARKANSAS.

FAYETTEVILLE—Wilson, Berton N. (Prof. Mech. Engrg., Univ. of Ark.)
LITTLE ROCK—Fordyce, Jno. R. (Pres. Thomas-Fordyce Mfg. Co.)

### CALIFORNIA.

BERKELEY—Le Conte, Jos. Nisbet (Asst. Prof. Mech. Engr., Univ. of Cal.)
Morborn, Jno. O. (Consulting Mining)
EARLIMART—Brush, Fred'k F.
LOS ANGELES—Boxall, Hugh L.
Brett, Henry E. (Consulting), 114 N Spring
Campbell, D. W.
Catey, S. F.
Clark, Herbert Hamilton, L. A. Trust bldg
Cobb, E. S. (Consulting)
Duryea, O. C.
Garrett, Jno. A., 423 E. 3rd
Goodale, O. E.
Harron, Pickard & McCone
Linton, Robt. (Mech'l & Mining), Security bldg
MacLeod, Malcolm
Moore, Chas. C. & Co.
Nissen Engineering Co.
Tracy Engineering Co.
Warrington, Jas. N., 617 S Grand av
Wilson, Clarence C. (Ch. Engr. Western Gas Engine Co.), 908 N Main
MARE ISLAND—Hardy, C. E. (Mgr. Dept. U. S. Navy Yard)
MARYSVILLE—Miller, Jno. S. (Yuba Const. Co.)
OAKLAND—Brown, Jno. Quincy (Asst. Gen'l Mgr. & Eng. Oakland Traction Co.)
PALO ALTO—Marx, Guido Hugo (Prof. Mech. Design, Stanford Univ.)
PASADENA—Wright, Ernest N. (Consulting)
POINT LOMA—Tyberg, Oluf
SACRAMENTO—Browning, Chas. Jr.
Crawston, Robt. E. (Mgr. Ashburton Mining Co.)
SAN DIEGO—Bacon, Jno. Lord, Scripps bldg
SANFORD UNIVERSITY—Durand, Wm. F. (Prof. Mech. Engrg. Sanford Univ.)
Ryan, Harris (Prof. Elec. Engrg. Sanford Univ.)
SAN FRANCISCO—Atkins, David Fowler (Eng. Post Office & Court House)
Baum, Frank G. (Consulting, Elec'l, Mech'l & Hydraulic), Chronicle bldg
Braun, Carl F., 503 Market
Britton, Jno. A. (V. P. & Gen'l Mgr. Pacific Gas & Elec. Co.), 445 Sutton
Cattell, Wm. A. (Consulting), Foxcroft bldg
Couchoa & Thurston, Wells Fargo bldg
Davol, Geo. K., 503 Market
Dickie, Geo. W., 24 California
Doble, Wm. A. (Pres. Abner Doble Co.), Fremont & Howard
Dunn, Kingsley G. (V. P. Hunt, Mirk & Co.), 141 2nd
Eckart, W. R. (Consulting), 3014 Clay
Forsyth, Robert (Consulting), Merchants Ex.
Gould & Curry Co., 339 Brush
Grimwood, Chas. P. & Co., Monadnock bldg
Henry, Geo. J. Jr. (Ch. Engr. Penton Water Wheel Co.), Monadnock bldg
Holt, Chas. Parker (V. P. Holt Mfg. Co.), Balboa bldg
Hopps, J. Herbert (Consulting), 503 Market
Hunt, Andrew M. (Consulting), Union bldg
Hunt, Dillman, Meridith & Allen (Inc), Union Trust bldg
Hudson & Hunter (Consulting), Monadnock bldg
Johnson, Paul F., Monadnock bldg
Jones, Edw. C. (Ch. Engr. Gas Dept. Cal. Gas & Elec. Corp), 445 Sutter
Lardner, Henry A. (Mgr. J. G. White Co. Inc.), Alaska Com. bldg
Leland, Wm. Emmons (Consulting), Merchants Ex. bldg
Libby, Malcolm M., 604 Mission
Long & Hoyt Co. (Inc.), Monadnock blk
Moore, Chas. C. & Co. (Engrs. & Mach'y), 99 First
Moore, R. S. (Prop. Moore & Scott Iron Wks), Main & Howard
Morrin, Thomas (Consulting), Balboa bldg
Naphtaly, Sam. L. (Gen'l Supt. City Elec. Co.), 347 Grant av
Noble, Patrick (Pres. Pacific Rolling Mill Co.), Crocker bldg
Norborn, Jno. O. (Mech'l Mining), Sheldon bldg
Noyes, Wm. S. (Mech'l Mining), Mills bldg
Paine, Henry E. (Mgr. Elec. Dept. Hughson & Merton), 438 Market
Percy, Earl N. (Eng. Imperial Gas Eng. Co.)
Prell, Jno. Stillman, 1190 Ellis
Rix, Edward A. (Pres. Rix Compressed Air & Drill Co.), 371 Market
Rouvel, Geo. W. (Gen'l Supt. Santa Cruz Portland Cement Co.), Crocker bldg
Small, H. P. (Gen'l Supt. M. P. Southern Pac. Co.), Flood bldg
Sprado, Ralph (Ch. Engr. Dow Pumping Eng. Co.)
Stillman, Howard (Mech. Eng. & Eng. of Tests, So. Pac. Co.), Flood bldg
Stut, Jno. C. H. (Consulting), 417 Mont-
Terwilliger, Hy. L., 139 Townsend gomery
Weymouth, Clarence R., 99 First
Wieland, Chas. F. (Consulting), Mutual Saving Bank bldg.
Woodruff Co., 1049 Howard
Wright, Wm. Quimby (Mech'l Mining), 24 California
SANTA BARBARA—Whittmore, Jno. R.
SELBY—Elliott, Elmer G. (Consulting Engr. Selby Smelting & Lead Co.)

### COLORADO.

BOULDER—McArthur, Alonzo W
Wallace, Jacob H.

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Bonnevie, N. C., 2501 Gaylord
Comstock, Chas. Worthington, 76 Grant
Curtis & Reichhelm (Consulting), Ideal bldg
Hampson, C. M. (Pres. Hampson-Fielding Engrg. Co.), 1711 Tremont
Hutchinson, Arthur H., 1617 Wazee
Joslyn, Paul L. (Consulting), 17th & Curtis
Kerbs, A. Sonnin, 1368 Gilpin
Neville, David J. (Mech. Engr. Stearns Rogers Mfg. Co.)
Newbury, Geo. K. (Newbury Mach'y Co.), Century bldg
Nixon-Lancaster Engrg. Co., 1736 Champa
Rollandet, G. J. (Consulting), 16th & Araphoe
Searing, Lewis (V.-P. & Gen. Mgr. Denver Engrg. Works Co.)
Sethman, Geo. H. (Elec. & Mech.), 125 E 11th av
Shepard, Frank E. (Pres. & Mech. Engrg. Denver Engrg. Works Co.)
Stearns, Thos. B. (Mech. & Mining), 1720 California
Thomas, David G. (Ch. Engr. Denver Union Water Co.)
Van Buskirk, Henry C. (Supt. M. P. Colo. & Southern Ry.)
Walker, Thos. C. (Pres. Walker Mfg. Co.)
Wilkinson, Thos. L. (Consulting), Boston bldg
Williams, Chas. Henry, 611 Mercantile bldg
Wilson, Dwight Boyden (Supt. of Power Denver City Tramway Power Co.), P. O. Box 1373
Yont, Chas. A., Box 165
ELDORA—Lewis, Jno. Ernest
FORT COLLINS—Lawrence, J. W. (Prof. Mech. Engrg. State Agl. College)
HOLLY—Wiley, Jas. M. (Elec. & Mech. Engr. Holly Sugar Co.)
LAMAR—Feicht, Edw. R. (M. M. Am. Belt Sugar Co.)
PUEBLO—Deuel, Harry Austin (Ch. Engr. Colo. Fuel & Iron Co.)
VICTOR—Worcester, S. A. (Mining)

## CONNECTICUT.

ANSONIA—Bowen, David R. (Supt. Farrel Fdry. & Mach. Co.)
Schneller, Geo. Otto (Treas. Ansonia O. & B. Co.)
Wheeler, Joel M.
BANTAM—Rogers, Winfield S. (Pres. Bantam Anti-Friction Co.)
BETHEL—Dauchy, Samuel E.
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Bullard, Dudley B. (Mech. Engr. & Supt. Bullard Mach. Tool Co.)
Cord, Fred'k M. (Mech. Engr. Singer Mfg. Co.)
Chamberlain & Newman
Fletcher & Link, Court Exchange
Kingsbury, J. G. (Pres. Grant Mfg. & Machine Co.)
Lake, Simon (Pres. Lake Torpedo Boat Co.)
McElroy & Kershaw, 1188 Main
Millett, Kenneth B. (Supt. Protal Co.)
Riker, Andrew L. (V.-P. Locomobile Co.)
Smith, F. W., Jr. (Consulting & Patent Expert)
Van Wagoner, Wm. (Supt. P. I. Works)
Webster, Wm. R. (Gen. Supt. Bridgeport Brass Co.)
BRISTOL—Green, Augustine E. (Mech. Engr. New Departure Bell Co.)
Hill, Reuben (Factory Mgr. Bristol Engrg. Corp.)
CLINTON—Krummel, Louis C. (Consulting)
COLLINSVILLE—Hill, Wm. (Pres. Collins Co.)
DANBURY—Burchard, Anson W.
DERBY—Huson, Winfield Scott (Gen. Supt. Whitlock Printing Press Mfg. Co.)
GROSVENORDALE—Arnold, Walter S. (M. M. & Ch. Engr. Grosvenordale Co.)
HARTFORD—Billings, Chas. E. (Pres. & Gen. Supt. Billings & Spencer Co.)
Bond, Geo. M., 141 Washington
Claussen, Edw. F., 904 Main
Coleman, Albert E. (Plant Mgr. Pratt & Whitney Co.)
Cook, Asa S., Colts West Armory
Desjardins, Benj. M. (Consulting & Patent Expert), 926 Main
Ehbets, C. J. (Consulting & Patent Expert, Colts Patent Fire Arms Mfg. Co.)
Gilmour, Geo. (Ch. Engr. Travelers Ins. Co.)
Honiss, Wm. H. (Consulting & Patents), 315 Pearl
Howard, Chas. P. (Pres. Jas. L. Howard & Co.)
Hunter, J. S., 15 Wash'n
Jacobs, Ward S. (Treas. Walton Co.)
Lewis, Jos. E. (Treas. Bush Mfg. Co.)
Loomis, Burdette, Jr., Conn. Mutual bldg
Lorenz, Wm. A., 315 Pearl
Luther, Flavel S. (Pres. Trinity College)
Merritt, Jos. (Consulting), 315 Pearl
Murphy, Edw. J. (Consulting, Hartford Steam Boiler Insp. & Ins. Co.)
Newton, Chas. E. (Treas. Jewell Belting Co.)
Peard, Jas. J. (Supt. Colts' Patent Fire Arms Mfg. Co.)
Perkins, Thos. C., Conn. Mutual bldg
Quint, Alanson D. (Mgr. Turret Drill Co.)
Rice, Chas. Delos (Gen. Supt.), 581 Capitol av
Souther, Henry (Pres. Hy. Souther Eng. Co.)
Townsend, Harry P. (Sec. H. P. Townsend Mfg. Co.)
Trobridge, Amasa (Factory Mgr. Veeder Mfg. Co.)
Veeder, Curtis H. (Pres. Veeder Mfg. Co.)
Wolcott, Henry A., 49 Pearl
MIDDLETOWN—Potts, Warren
MOUNT CARMEL—Hurd, Hobart J. (Supt. Liberty Cartridge Co.)
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NEW BRITAIN—Bonnor, Wm. T. (Mech. Engr. Am. Hdw. Corp.)
Brown, Robt. S.
Burgess, Chas. Munroe
Fletcher, Jas. R.
Hart, Howard S. (Pres. Hart & Cooley Co.)
Jarvis, Chas. M. (1st. P. P. Am. Hdw. Corp.)
Jones, Horace K. (Mech. Supt. Corbin Screw Corp.)
Stanley, Alix W. (V. P. Stanley Rule & Level Co.)
Stone, Elmer B. (Gen'l Supt. Corbin Cabinet Lock Co.)
NEW HAVEN—Barnum, Geo. S. (V. P. Bigelow Co.)
Bigelow, Frank L. (Pres. Bigelow Co.)
Boyer, Frederic Q., 216 Orchard
Breckenridge, L. P. (Prof. Sheffield Scientific School)
Campbell, Mich'l F. (Consulting & Cont'g, 42 Church
Henney, Jno., Duncan Hall
Kelsey, Duane J., 152 Temple
Knows, Franklin F., 265 Bassett
Mason, Wm. (Supt. Engr. Winchester Repeating Arms Co.)
Moulthrop, Leslie, 620 Orange
Norcross, J. Arnold (Secy. & Treas. New Haven Gas Light Co.)
Rowland, Amory E. (Treas. Rowland Mach. Co.)
Sargent, Henry B. (Sargent Co.)
Stone, J. Wheaton (Sec'y & Mgr. Eastern Machinery Co.)
NEW LONDON—Forbes, W. D. Co.
Loomis, Fred J. (Treas. & Mgr. Standard Brass & Copper Tube Co.)
Whiton, Lucius E. (Mgr. D. E. Whiton Mach. Co.)
NORWICH—Plummer, Frank J.
OAKVILLE—Hamilton, Edw. W. (Box 1434)
PLANTSVILLE—Lane, Almerson M.
PORTLAND—Pascall, Rich H. (Pres. Pickering Governor Co.)
SOUTH NORWALK—Hill, Ebenezer (Gen'l Mgr. Norwalk Iron Works Co.)
STAMFORD—Arnold, G. L. H., Box 1
Emery, Albert H. (Consulting)
Leland, Geo. B. (Supt. Stamford G. & E.
McBride, Jas. (Stamford Mfg. Co.)
Taylor, Warren H. (Supt. Lock Dept. Y. & T. Mfg. Co.)
Towne, Henry R. (Pres. Yale & Towne Mfg. Co.)
Weber, Geo. A., 71 Courtlandt av
THOMPSONVILLE—Upson, Lyman A. (Treas. Upson Martin Co.)
TORRINGTON—Alvord, C. H. (V.-P. & Gen. Mgr. Hendy Mach. Co.)
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## IOWA.

AMES—Davidson, J. Brownlee (Prof. Agri. Engrg. Iowa State College)
BURLINGTON—Salmon, Fred'k W. (Civ. & Mech. Engr. Murray Iron Wks.)
DAVENPORT—Bettendorf, Wm. P. (Pres. Bettendorf Axle Co.)
DES MOINES—Miller, Erle
Page, O. L.
DUBUQUE—Larson, Chas. J. (Ch. Engr. Union Elec. Co.)
Loetscher, Emil C. (V. P. Loetscher-Ryan Mfg. Co.)
IOWA CITY—Woodward, Sherman Melville (Prof. Hyd. & Engrg.)

## KANSAS.

CHANUTE—Coburn, Rich'd G.
INDEPENDENCE—Davis, Herbert R. (Asst. to Gen'l Mgr. Kans. Natural Gas Co.)
IOLA—Hunt, Leigh Ansan (Pres. Hunt Engrg. Co.)
LAWRENCE—Walker, Perley F. (Prof. Mech. Engrg. Univ. of Kans.)
MERRIAM—McBain, Wm. Coryell (Ch. Engr. K. C. & Olathe Elec. R. R. Co.)
TOPEKA—Brooks, Henry K. (Pres. Capitol Iron Works)

## KENTUCKY.

LOUISVILLE—Butler, Pierce (Consulting)
Cook, C. Lee
Doyle, Chester L.
Hamilton, Thos. S. (Mech. Engr. Mengel Box Co.)
Speed, Wm. S. (V. P. & Mgr. Louisville Cement Co.)
MOUNT STERLING—McKee, Neal Trimble (H. Clay McKee & Sons Co.)
NEW BORT—Robinson, Louis G.

## LOUISIANA.

BATON ROUGE—Kerr, Eugene W. (Prof. Mech. Engrg. La. State Univ.)
BOYCE—Anderson, Robt. Marshall
CINCLARE—Whipple, Wm. (Supt. Cinclare Central Factory)
LAKE CHARLES—Chalkley, Henry G. (Mgr. & Engr. No. Am. Land & Timber Co.)
MONROE—Duty, M. J.
MORGAN CITY—Pharr, Eugene A.
NEW IBERIA—Broussard, Sylvio
NEW ORLEANS—Beck, Jas. D. (Supt. Const. Shakespeare Iron Works)
Borde, Geo. W. (Consulting), Hibernia bldg
Castanedo, Walter, Maison Blanche bldg
Hopkins, Guy (Operating Engr. So. Pac. R. R.)
Jahncke, Ernest L. (Mgr. Jahncke Navigation Co.), 814 Howard av
Johnson, Lewis (Pres. Johnson Iron Works, Ltd.), P O Drawer 241

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Johnson, Warren (Consulting), Audubon bldg
Lockett, A. M. (Consulting), 343 Baronne
McKinney, Edw. B. (Supt. of Power N. O. Ry. & Lgt. Co.), 323 Baronne
Payne & Joubert, 423 Carondelet
Raymond, A. (Gen. Mgr. of Drainage), Municipal Office bldg
Reed, W. B. (Consulting), Hibernia bldg
Sammons, E. A. (Pres. E. A. Sammons Co.), 303 Magazine
White, Maunsel (Consulting Engr. & Steel Met.), P O Box 206
OLIVER—Pharr, Hy. N. (Sugar Planter & Mfr.)
SHREVEPORT—Jeter, J. W.
Oliver, Ben
WASHINGTON—King, Geo. Caryl (Asst. Gen. Mgr. & Mech. Engr. Union Irrigation Co.)

## MAINE.

BANGOR—Humphrey, Orman B. (Consulting)
Rowe, Geo. F.
BATH—Andrews, Jacob R. (Pres. Hyde Windlass Co.)
Hyde, Chas. E.
Hyde, John S. (Pres. & Gen. Mgr. Bath Iron Works)
MALLINOCKET—Ferguson, Hardy S. (Ch. Engr. Great Northern Paper Co.)
NORTH LOVELL—Garcelon, Chas. A., Jr.
ORONO—Jewett, Arthur C. (Prof. Mech. Engrg. Univ. of Me.)
PORTLAND—Moulton, A. H. (Consulting)
SACO—Morgan, E. P.
SANFORD—Guernsey, Amos
Shurburn, Fred S.
SCARBOROUGH—Jordan, Samuel S. (Naval Arch. & Engr.)
SOUTH BREWER—Clark, Chas. B. (Gen. Supt. Eastern Mfg. Co.)
WATERVILLE—Philbrick, Frank B.

## MARYLAND.

ANNAPOLIS—Cole, Winthrop (Mech. Engr., Engrg. Exp. Sta. U. S. Naval Academy)
Howard, O. Zell (Mech. Engr. & Asst. to Dir. U. S. Naval Exper. Sta.)
Johnson, Theo. W. (Prof. Mech. Drawing U. S. Naval Academy)
BALTIMORE—Adams, Henry (Consulting), Calvert bldg
Bladenkoph, Geo., Lexington & Liberty
Boyden, Geo. A., P. O. Box 486
Butler, Thos. H., Equitable bldg
Chatard & Norris, Continental bldg
Cogswell, Corbin C. (Electro-Mech'l), 218 W Calvert
Darbee, Wm. (Asst. Gen. Mgr. Con. Gas, Elec. Lt. & Power Co. of Baltimore)
Delaney, Chas. R. Co., Gunther bldg
Diffenderfer, Jno. K. H., 217 N Calvert
Ellicott, Francis, Md. Trust bldg
Gieske, Walter M., Equitable bldg
Jones, Whitney W., 211 N Calvert
Keilholtz, P. O. (Elec. & Mech'l), Continental bldg
Lazenby, Francis A. (F. A. Lazenby & Co.), Bush & Wicomico
Lowndes-Mitchell Eng. Co., Law bldg
McAnulty, Jno. A., 206 N Holliday
McClean, Wm. H., Calvert bldg
McLaughlin, Jas. (Pres. McLaughlin Bros., Inc.), 915 Bolton
Middleton, Harvey (Pres. Thos. C. Basshor Co., Engrs. & Contrs.), 28 Light
Moller, Edw. A., 227 N Holliday
Muhlfeld, Jno. E. (Gen. Supt. M. P. B. & O. R. R.)
Newton & Painter (Consulting), Professional bldg
Parker, Jno. H. (Supt. King Cork & Seal Co.), 600 Buren
Penniman & Fairley (Consulting, Electro Mech'l), Mazine Bank bldg
Peirce, Wm. H. (V. P. & Gen. Mgr. Balt. Copper Smelting & Rolling Co.)
Phelps, Chas. E., Jr. (Electro-Mech'l), City Hall
Reeder, Chas. L. (Consulting, Electro-Mech'l), Equitable bldg
Schmidt, Chas. R., 200 E 24th
Scott, Jas. B. (Consulting, Electro-Mech'l), Md. Saving Bank bldg
Smith Engineering Co., Equitable bldg
Varney, Wm. Wesley (Mech. Engr. & Atty.-at-Law), Calvert bldg
Williams, Samuel T., 223 N Calvert
CUMBERLAND—Muncaster, Walter J. (V. P. & Gen. Mgr. Cumberland Steel Co.)
HAGERSTOWN—Ferguson, J. B. & Co.

## MASSACHUSETTS.

ACTON—Crooker, Ralph, Jr. (Consulting)
ADAMS—Plunkett, Chas. T. (V. P. & Sec'y Berkshire Cotton Mfg. Co.)
ASHLAND—Replogle, M. A. (Lombard Engrg. Co.)
ATHOL—McGregor, Jno. A. (Pres. Union Twist Drill Co.)
Simpson, Robt. Jas. Osborne (Supt. & Mech. Engr. L. S. Starrett Co.)
ATTLEBORO—Mossberg, Frank (Pres. & Gen. Mgr. Frank Mossberg Co.)
AUBURNDALE—Kendall, Jas. H.
BEVERLY—Kaven, Moses B. (Supt. United Shoe Mchy. Co.)
BOSTON—American Engineering Co., 100 Bagg, Sam'l F., 114 Water Boylston
Bailey, Erwin G. (Mech. Engr. Fuel Testing Co.), 220 Devonshire
Barker, Perry (Chem. Engr., A. D. Little, Inc.), 93 Broad
Barrus, Geo. H. (Exp. & Consulting Steam Engr.), Pemberton bldg
Bates, Edw. C., 122 Marlboro
Bellows, L. Edw., 24 Milk
Blood, Jno. (Consulting, Electrical Railway, Power & Lighting Plants, etc.), P. O. sq
Brown, Chas. F. (Solicitor of Patents), Exchange bldg
Brown, Walter C., 12 Pemberton Sq
Brown, Wm. S., 15 School
Campbell, Jeremiah, 38 Kilby
Chandler, Clarence A., 24 Milk
Church, Wm. Lee (Pres. & Consulting Engr. Ambursen Hyd. Constr. Co.), 176 Federal
Dietz, Carl F. (Consulting Engr. Dietz & Keedy), 6 Beacon
Clarke, Alfred (Pres. Gas & Elec Corps.),
Clark, Carl H., 88 Broad 131 State
Coyne, James, 121 Haverhill
Cumnock, John (Mill), 161 Devonshire
Cunningham, Thos. (Treas. & Gen'l Mgr. Cunningham Iron Co.), Summer, B. &
Dammerall, Jas. W., 94 High Fargo
Davis, Philip W., 88 Broad
Dawes, Herbert N. (V. P. Nightingale & Childs Co.), 205 Congress
Dean, F. W. (Mill Engr. & Arch.), Ex.
Densmore & Le Clear, 88 Broad bldg
De Wolf, Jno. O., 159 Devonshire
Don, L. B., 176 Federal
Duncan, Albert G. (Treas. Chicopee Mfg. Co.)
Duquet, Asa M., 453 Atlantic
Eames Bros., 44 Broad
Ellis, Axel E., 112 Water
English, Wm. T. (Pres. English & Flett (Inc). 226 Congress
Flather, Fred'k A. (Teas. Boott Mills), 79 Milk
French, Edw. V. (V. P. & Engr. Arkwright Mut. Fire Ins. Co.), 31 Milk
Fuel Testing Co., 220 Devonshire
French, Zackary T., Old South bldg
Galloupe, Francis E., Old South bldg
Goodale, A. M. (Treas. Boston Mfg. Co.), 140 State
Gooding, Chas. S. (Mech. Engr. & Solicitor Patents), 28 School
Greene, Levi R. (Consulting Engr. Walworth Mfg. Co.), 132 Federal
Guiler Engineering Co., Bd. of Trade bldg
Harrington, Ephriam & Co. (Consulting), Pemberton sq
Haven, H. M. (Refrigeration), 53 State
Hawkins, Jno. T., 68 Westland av
Hayes, Frank H. (Pres. F. H. Hayes Mchy. Co.), 101 High
Hemenway E. Perley, 40 Kilby
Hill-Ray Engineering Co., 110 State
Hill, Richard H. Co., 70 Kilby
Hill, Walter L. (Hill-Ray Engr. Co.), 110
Hinds, Fred S., 19 Milk State
Hodgkins, Ernest G., 109 Purchase
Hussey, Oren S. (Treas. Frank Ridlon Co.), 253 A
Jackson, Henry O. (Electrical), 88 Broad
Jarvis Engineering Co., 61 Oliver
Kendricken, Paul H. (Ingalls & Kendrickeen, Inc.), 80 Sudbury
Keniston Engineering Co., 52 Washington
Kimball, Richard D. Co., 6 Beacon
Kitfield, Edw. H., 46 Cornhill
Kunhardt, Lewis H. (V. P. & Engr. Bos Mfrs. Mut. Fire Ins. Co.), 31 Milk
Lockwood, Green & Co., 93 Federal
Lockwood, T. D., 119 Milk
Lombard Co., 4 P O sq
Lowe, Nathaniel M., 241 Tremont
Lowry, G. A. Engineering Co., East Boston
McLauthlin, Martin B. (Engr. & Treas. Geo. T. McLauthlin Co.), 120 Fulton
Main, Chas. T. (Consulting), 45 Milk
Merrill, Frank A. (Mgr. Merrill Co.), 19 Pearl
Metcalf & Eddy (Consulting), 14 Beacon
Middleton, Percy H. (V. P. H. I. Crandall & Son Co.), 102 Border
Miller & Franklin, 319 Washington
Monks & Johnson, 7 Water
Monteagle, R. C. (Ch. Engr. Atlantic Wks.)
Murphy, Fred'k E. (Ch. Engr. Am. Sugar Refining Co.), Granite
Noyes, Edw. P., 40 Kilby
Park, Wm. R. (Supt. Hancock Inspirator Co.), 23 Watson
Parkhurst, Edw. B., Woburn
Pierce, Richard H. (Consulting), 35 Congress
Rawson, Edw. L., 6 Beacon
Rice, David, 87 Milk
Rivett, Edw. (Pres. & Mgr. Rivett Lathe Mfg. Co.), 2 Brooks, B.
Robinson, Edw. P. (Supt. Atlantic Wks.), 80 Border
Robinson, Henry S. (Consulting, & Pres. Atlantic Works), 28 State
Russell, Walter B. (Dir. Franklin Union)
Schaeffler, Jos. C. (Mech. & Civ. Engr. Jos. C. Schaeffler & Co.), Tremont bldg
Schumaker, Jno. S. (Schumaker & Santry), 141 Milk
Shaw, Edw. S. (Bridge & Structural), 12
Sheaff & Janstad, 88 Broad Pearl
Shedd, Frank E. (V. P. & Ch. Engr. Lockwood Greene & Co.), 93 Federal
Smith, Sidney L., 90 Elm av, Rox
Snow, Sylvester M. (Snow & Humphreys), 85 Water, & Providence, R. I.
Snow, Walter B. (Publicity Engr.), 170
Sparrow, Arthur D., 293 Congress Summer
Starkweather, W. G., 53 State
Stearns, Chas. K., 88 Broad
Steele, Herbert B., 12 Pearl
Stone & Webster, 147 Milk
Taylor, Eugene H., Hyde Park
Tenney, Albert Ball (V. P. Malden Elec. & Suburban Gas. & Elec. Co.), 84 State
Thompson, Edw. C. (Gen'l Mgr. Victor Tire Traction Co.), 16 State
Tohman, Jas. P. (Pres. Samson Cordage Works), 88 Broad
Tufts, Leonard (1st V. P. Am. Soda Fountain Co.), 282 Congress, & Pinehurst, N. C.
Walworth, A. C. (Pres. Walworth Constr. & Supply Co.), 100 Pearl
Warner, Robt. L. (Warner, Tucker & Co.), 85 Devonshire
Warren, Howard S., 125 Milk
Watson, Wm. (Sec'y Am. Acad. Arts & Sci.), 107 Marlborough
Webber, Wm. O. (Consulting), Exch. bldg
Westinghouse, Church, Kerr & Co. (Consulting), Board of Trade bldg
Whaley, W. B. S., Tremont bldg
Whiting, Chas. W. (Consulting), 33 Broad
Williams, Llewellyn (Supt. Engr. United Trust Co.), 131 State
Winther, Chas. A. (Mech. Engr. Mfrs. Agt.), 170 Summer
Woodbury, C. J. H. (Consulting), 45 Milk
Woods, Frank F. (Pres. & Treas. S. A. Woods Mch. Co.)
BROCKTON—Rogers, C. C.
Washburn, W. S.
BROOKLINE—Appleton, Chas. B., Netherlands rd
Bates, E. C.
Hist, L. J.
Kenrick, Alfred E.
CAMBRIDGE—Bird, W. W.
Brooks, Edwin C. (Supt. Water Works), City Hall
Crothers, Chas. Edw., Jr.
Gale, Horace B. (Ch. Engr. Simplex Elec. Htg. Co.)
Hollis, Ira N. (Prof. Engrg. Harvard Univ.)
Leavitt, E. D.
Lombard, N. C.
Marks, Lionel S. (Prof. Mech. Engrg. Harvard Univ.)
Mellen, Edwin D., Central sq
Norris, A. E.
Swain, Geo. F. (Prof. Cin. Engrg. Graduate Sch. Applied Science, Harvard Univ.)
Whiting, S. B.
CHARLESTOWN—Fallon, Jno. B., Jr. (Supt.)
CHELSEA—Babson & McClintock
CLINTON—Hosmer, Amos G. (Mech. Supt. Lancaster Mills)
DORCHESTER CENTER—Mason, Wm. B. (Pres. Mason Regulator Co.)

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EAST BRIDGEWATER—McLean, Robt. W. (Carver Cotton Gin Co.)
EAST CAMBRIDGE—Aborn, Geo. P. (Mgr. Blake & Knowles Steam Pump Works)
Perkins, Geo. H. (Supt. Refineries Warren Bros. Co.)
Worcester, H. E. (Supt. Revere Sugar Refinery)
FALL RIVER—Dyer, David H. & Son (Elec. & Mech'l)
Hart, Orlando W. (Electro-Mech'l)
Henry, Wm. T.
Marvell, Wm. T. (Mill Eng.)
FITCHBURG—Dillon, Fred'k N. (Treas. D. M Dillon Steam Boiler Works)
Sheldon, Thos. C. (Pres. Fitchburg Duck Mills)
Simonds, Daniel (Pres. Simonds Mfg. Co.)
FRANKLIN—Taft, Stephen C.
GREENFIELD—Wells, Frank O. (Pres. & Treas. Wells Bros. Co.)
HOLYOKE—Chase, H. M. (Mech. Engr. Deane Steam Pump Co.)
Ellsworth & Howes (Consulting)
Green, Samuel M. (Inc.) (Consulting)
Lobben, Peder
Miller, Geo. H. (Gen. Engr. Am. Thread Co.)
Newcomb, Chas. L. (Pres. Mech. Engr. & Gen. Mgr.)
HOPE DALE—Burbank, Louis S. (Asst. Ch. Draftsman M. E. Draper Co.)
HYDE PARK—Bixby, Walter (Mech. Engr.)
Fairbairn, W. U.
Suck, Adolph (Arch. & Engr.)
INDIAN ORCHARD—Shirley, Robt. (Wks. Mgr. Chapman Valve Mfg. Co.)
LAWRENCE—Diman, Geo. H. (Consulting Engr. Wood Worsted Mill)
Emerson, H. B. (Engr. & M. M. Arlington Mills)
Mellor, Hiram L. (Pres. & Mgr. Lawrence Pump & Eng. Co.)
Wallace, Fred A. (M. M. Pacific Mills)
LEE—Stevenson, L. T. (Eng. Mountain Mill
LEXINGTON—Watson, Frank Paper Co.)
LOWELL—Ames, Geo. E. (Mech. Supt. Lawrence Mfg. Co.)
Perkins, G. H. (Head Textile Engrg. Dept. Lowell Textile Sch.)
Stevens, Jno. A. (Consulting)
MALDEN—Burleigh, Chas. B.
MELROSE—Higgins, Geo. F.
MITTINEAGUE—Barstow, F. L. (Ch. Engr. Mittineague Paper Co.)
NATICK—Gale, Horace B.
NEW BEDFORD—Cushman, H. E. (Treas. & Gen. Mgr. Morse Twist Drill Co.)
Stetson, Geo. R. (Pres. & Gen. Mgr. New Bedford Gas & Edison Lgt. Co.)
NEWTON—Baker, Chas. F.
NEWTON CENTER—Baufield, Fred'k E., Jr. (Mech. Engr. Saco & Pettee Mch. Co.)
NEWTON HIGHLANDS—Thomson, Sanford E. (Consulting)
NEWTON UPPER FALLS—Mills, Chas. (Supt. of Works, Saco & Pettee Mch. Shops)
NORTH ADAMS—Hunter, Jas. D. (V. P. Hunter Mch. Co.)
PITTSFIELD—Abbott, Chas. C. (Mgr. Triumph Voting Mch. Co.)
Mitchell, Guy E. (Gen. Mgr. Alden Sampson Mfg. Co.)
QUINCY—Bailey, T. S. (Ch. Engr. Elec. Boat Co.)
SALEM—Bickford, J. H.
Hunting, A. A. (Consulting)
SOMERVILLE—Boyer, C. W. & F. H.
Eldredge, A. H. (Consulting Engr. N. E. States Office, No. Packing & Prov. Co.)
SOUTH BOSTON—Blood, Chas. W. (V. P. & Mech. Engr. S. A. Woods Mch. Co.)
Hibbard, Thos. (Mech. Engr. & Treas. Geo. Lawley & Sons Corp.)
Mattice, Asa M. (Mgr. of Works Walworth Mfg. Co.)
Tilden, Jas. A. (Gen. Mgr. Hersey Mfg. Co.)
SOUTH FRAMINGHAM—Keyes, Fred'k H. (Gen. Mgr. Robb-Mumford Boiler Co.)
Scott, Hy. F. (M. M. Dennison Mfg. Co.)
SOUTH YARMOUTH—Davis, Chas. H.
SPRINGFIELD—Baush, Wm. H. (M. E. & In charge Sales Confectioners' Mchy. & Mfg. Co.)
Bocorselski, F. E. (Supt. & Designer Bausch Mch. Tool Co.)
Damon, W. H. (Supt. of Generating, United Elec. Light Co.)
Falls, Frank, 389 Main
General Engrg. Co., 318 Main
Green, Samuel M. (Consulting Engr. Hitchcock bldg.)
Leitch, Meredith (Consulting), 33 Lyman
Rider, Thos. J., 51 Taylor
Sprague, H. L., 310 Main
Threlfall, Wm. V., Hitchcock bldg
TAUNTON—Collins, Edw. C. (Mason Mch. Wks.)
Cutter, Geo. A. (Gen. Mgr. Cell Drier Mch. Co.)
Greensmith, Jas. E. (Gen. Supt. Mason Mch. Works)
TUFTS COLLEGE P. O.—Anthony, G. C. (Dean Engrg. Sch. Tufts College)
Chase, Chas. H. (Prof. Steam Engrg. Tufts College)
WALTHAM—Burnham, Harry A.
Hobbs, Geo. E.
Monaghan, Jas. F. (Mech. Engr. Waltham Bleachery & Dye Works)
WESTFIELD—Cushing, Geo. H. (Gen. Supt. H. B. Smith Co.)
WEST NEWBURY—Brown, Gilman W.
WEST SOMERVILLE—Brooks, Louis C.
WINCHENDON—Whitney, Baxter D.
Whitney, Wm. M.
WOBURN—Parkhurst, E. B.
Smith, J. W.
WOLLASTON—Stevens, Jesse F.
WORCESTER—Alden, Geo. L. (Treas. & Consulting Engr. Norton Co.)
Allen, Chas. M. (Prof. Hyd. Engrg. Worcester Poly. Inst.)
Bird, Wm. W. (Prof. Mech. Engrg. & Dir. Washburn Shops, Worcester Poly. Inst.)
Bowers, Percival (Consulting), 340 Main
Carroll, Elbert H. (Supt. Morgan Constr. Co.), 21 Lincoln
Chase, Chas. E., 274 Main
Coghlin, Jno. P. (Pres. & Treas. Coghlin Elec. Co.)
Coppus Eng. & Equipment Co. (Combustion Engineers), 390 Main
Daniels, Fred'k H. (Chief Eng. American Steel & Wire Co.)
Edwards, V. E. (V. P. Morgan Constr. Co.)
George, J. Rowland (Ch. Engr. Morgan Constr. Co.)
Gifford, Albert J. (Partner W. H. Leland & Co.)
Higgins, Jno. W. (Secy. & Gen. Mgr. Worcester Pressed Steel Co.)
Higgins, Milton P. (Pres. Norton Emery Wheel Co.)
Larsson, Thure L. F., 34 Holden
Logan, Jas. (1st V. P. & Gen. Mgr. U. S. Envelope Co.)
Morgan, Chas. H. (Pres. Morgan Constr. Co.)
Morgan, Ralph L. (Pres. & Ch. Engr. R. L. Morgan Co.)
Morse, Wm. M., 167 Pleasant
Myers, Thos. F. (Consulting & Constructing), 26 Austin
Parker, Chas. D., 22 Cypress
Rawson, Louis W. (Supt. Washburn Shops Poly Inst.)
Read, Carleton A. (Prof Steam Engrg. Worcester Poly Inst.)
Reed, Chester T. (Pur. Engr. & Prince Mfg. Co.)
Reed, Edgar (Pres. Reed & Prince Mfg. Co.)
Rice, A. C. (Consulting), State Mutual bldg
Richey, Albert S. (Consulting Electrc. & Rockwood, Geo. I., 340 May Mech.)
Smith, Harold B. (Prof. Elec. Eng Worcester Poly Institute)
Thompson, Wm. D. (Consulting Electrc. & Mechl.), 340 Main
Wyman, Horace (Consulting), 20 Harvard

## MICHIGAN.

ALPENA—Kline, L. T.
ANN ARBOR—Allen, Jno. R. (Prof. Mech. Engrg.), New Engrg. bldg
Cooley, M. E. (Prof. Mech. Engrg. Dean Dept. of Engrg. Univ. of Mich.)
Miggett, Wm. L. (Prof. Shop Practice & Supt. Engrg. Shops, Univ. of Mich.)
Post, Edw. C.
BATTLE CREEK—Johnson Eng. & Const. Co.
BAY CITY—Garland, Harrison W.
Howlett, Lewis G. (Supt. Industrial Wks.)
Perry, Ernest B. (Mgr. Industrial Wk.s)
BENTON HARBOR—Downer, S. B.
CALUMET—Williams, Howard E. (Ch. Draftsman Calumet & Hecla Min. Co.)
DETROIT—Arnold, Edwin E. (Ch. Engr. Metal Products Co.)
Bachle, Andrew, Trussed Concrete bldg
Barber, Clarence M. (C. E. Smith, Henchmann & Grylls, Archs. & Engr.)
Barthel, Oliver E. (Consulting), Moffat bldg
Barton, Henry L. (V. P. Metal Products Co.), 226 Abbott
Bigelow, Frank B. (Sales Mgr. Murphy Iron Works)
Brush, Anderson & Ammerman (Consulting), Penobscot bldg
Coffin, Howard E. (V. P. Chalmers-Detroit Motor Co.)
Comstock, Haigh, Walker Co. (Electric Railways), Ford bldg
Conant, W. S. (Consulting), Bank Cham-Coon-DeVisser Co. bers
Decker, Edw. P. (Factory Mgr. Kemiweed Can Co.)
Doughty, A. J. (Factory Mgr. Burroughs Adding Mch. Co.)
Dow, Alex (V. P. & Gen'l Mgr. Edison Ill. Co.), 18 Wash'n av
Dunham, Geo. (V. P. & Consulting Engr. Chalmers-Detroit Motor Co.)
Dwyer, Emmet (2nd Asst. Supt. Michigan Store Co.)
Ekstron, Gunnar (Consulting), Stevens bldg
Evans, Henry O. (Contr. & Designing Engr. Spec. Mchy.), The Charlevoix
General Electric Eng. Co. (Electro Mch'l), Ford bldg
Grimes, Geo. L. (Pres. & Treas. Midland Hazelton, Wm. S., 475 2d av Mch. Co.)
Hinchman, Theo. H. Jr. (Consulting), Washington Arcade
Hodge, Harry S. (Pres. Detroit Twist Drill Co.)
Jackson, Roscoe B. (Treas. & Gen'l Mgr. Hudson Motor Car Co.)
Joy, Francis B. (Supt. Detroit Heating & Ltg. Co.)
Kahn, Julius (Pres. Trussed Concrete Steel Co.), Trussed Concrete bldg
Kales, Wm. Robt. (Ch. Engr. Whitehead & Kales Iron Wks.)
Keeler, E. E. (Pres. Detroit Insulated Wire Co.)
Keep, Wm. J. (Supt. Mich. Stove Co.) Co.)
Kingan, Wm. F. (Consulting Elect'. & Mechl.), Ford bldg
Kirby, Frank E., Stevens bldg
Lane, Horace H., 333 W Hancock av
Leland, H. M. (Gen'l Mgr. Cadillac Motor Car Co.)
Lyman, Elihu R. (Supt.. U. S. Heater Co.)
Mason, Fred'k H. (Spec. in Feed Water Purification & Htg. Power Plant Specialties)
Mattsson, A. Geo. (Ch. Engr. Great Lakes Engr. Wks.)
Mead & Co., 19th & Newark
Middleditch, Benj., 103 Meldrum
Oliver, E. C., 519 Cass av
Pendry, W. A. (Consulting), 65 Farns-
Perrault, Jesse H., Buhl blk worth av
Pessano, Antonia C. (Pres. & Gen'l Mgr. Gt. Lakes Engrg. Works.)
Roe Frank B. (Electl & Mechl.) Moffatt bldg
Russell, Walter S. (Pres. & Gen'l Mgr. Russeel Wheel & Fdy. Co.)
Sibley, Mark M. (Secy. & Treas. Sibley-Houfley Mch. Co.)
Soper, Ellis (Pres. Soper Co.), Ford bldg
Stewart, Robt. Stuart (Consulting Electro-Mech'l), Penobscot bldg
Stiel, Fred'k R. (Ch. Engr. & Secy. Am. Blower Co.)
Stoughton, Edwin R. (Baird & West), 149 Jefferson av
Stringham, Jos. S. (Constr. Eng. Solvay Process Co.)
Sundstrom Karl J. Moffat bldg
Taylor, Cecil H. (Designing Engr. Chalmers-Detroit Motor Co.)
Thomas, S. E. & Co. (Patents), Buhl blk
Thrall, Geo. C. (Gen'l Mgr. Taylor Water Tube Boiler Co.)
Van Tuyl Frank F. (Consulting, Electro-Mech'l.), Union Trust bldg
Vincent, Jesse G. (Supt. of Inventions, Burroughs Adding Mch. Co.)
Walker, Fred'k W. (V. P. & Ch. Engr. Comstock, Haigh, Walker Co.)
Weil, Chas. L. (Consulting. Heat, Light & Power). Union Trust bldg
Westinghouse, Church, Kerr & Co. (Consulting), Penobscot bldg

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Whitaker, Henry E. (Mech. Engr. Park Davis & Co.)
Wills, C. Harold (Ch. Engr. & Factory Mgr. Ford Motor Co.)
Wisner, Chas. E. (Consulting), Chamber of Commerce bldg
DOWAGIAC—Beckwith, Arthur K. (Gen'l Supt. Round Oak Stove Wks.)
EAST LANSING—Bissell, Geo. W. (Prof. Mech. Engrg. & Dean of Engrg. Mich. Agri. College)
Wilcox, C. C. (Foreman Mch. Shop), P. O. Box 158
FENTON—Scott, Walter G. (Allis-Chalmers Co.)
FLINT—Mott, Chas. S. (Pres. & Gen'l Mgr. Western-Mott Co.)
GLADSTONE—Slining, Geo. J. (Gen'l Supt. Cleveland Cliffs Iron Co.)
GRAND RAPIDS—Bending, Bicknell & Co.
Bradfield Engineering Co.
Oswald, C. J. Co.
Reeve, Chas. D. (Supt. Grand Rapids Brass Co.)
Tower, Dan'l W. (Pres. Grand Rapids Wernette, Jos. J. (Consulting) Brass Co.)
HOLLAND—Huntley, Alfred
HOUGHTON—Corbett, R. H. (Rep. Nordberg Mfg. Co.), & 126 Garnet
Glanville, Jas. Gundry (Supt. Isla Royale Stamp Mill)
Hood, Ozni P. (Prof. Mech. & Elec. Engrg. Mich. College of Mines)
ISHPEMING—McClure, O. D. (M. M. Cleveland Cliffs Iron Co.)
JACKSON—Cowham Engineering Co. (Consulting & Contracting M. E.)
Frost, Edw. J. (Pres. & Gen'l Mgr. Frost Gear & Machine Co.)
Wood, Erwin E. (Pres. & Gen'l Mgr. Walcott & Wood Mch. Tool Co.)
LANSING—Harrington, Norman T. (Ch. Engr. & Factory Mgr. Seager Eng. Wks.)
Seager, Jas. B. (Gen'l Mgr. Seager Engrg. Works)
MUSKEGON—Hohnes, Walter G. (Ch. Draftsman Linderman Mch. Co.)
Sawyer, Harry (Engr. Shaw Elec. Crane Co.)
Young, Jno. T. (Gen'l Mgr. Muskegon Traction & Lgt. Co.)
OWOSSO—Krgzanowsky, C. J. (Ch. Engr. Reliance Motor Truck Co.)
PETOSKEY—Benham, Geo. W.
PORT HURON—Kaumier, Jno. C. Jr.
Weber, O. L. E. (Mgr. Mich. Sulphite Fibre Co.)
SAGINAW—Adams, Thos. D. (Werner & Pfleider
Alger, Harley C. (Supt. Willcox Engrg. Fischer, J. G. Co.)
Fisher, E. C. (V. P. & Gen'l Mgr. Wicks Boiler Co.)
Wilcox Engineering Co. (Consulting)
Willcox, Geo. B. (Pres. & Gen'l Mgr. Will-Cox Engrg. Co.)
THREE RIVERS—Howard, Geo. E.
VULCAN—Armstrong, Frank H. (Mech. Engr. Penn. Iron Min. Co.)

## MINNESOTA.

**DULUTH—Crane, Wm. Edw.**
**Fuller, Floyd M. (Treas. Duluth Show Case Co.)**
**Hugo, T. W. (Consulting)**
**McGiffert, Jno. Rutherford (Secy. & Treas. Clyde Iron Works)**
**Rumsey, Spencer S. (Engr. of Constr. Oliver Iron Min. Co.)**
**Ryerson, Wm. N. (Gen'l Mgr. Great Northern Power Co.)**
**Wessinger, Henry J. (Ch. Engr. Oliver Iron Min. Co.)**
**MINNEAPOLIS—Briggs, Otis H.**
**Brown, Edw. H. (Cadwell & Brown Co.), Security Bank bldg**
**Cox, Claude E. (Engr. & Factory Mgr. H. E. Wilcox Motor Car Co.)**
**Fagan & Krag**
Flather, Jno. J. (Prof. Mech. Engrg. Univ.
Getchell, O. W. of Minn.)
Herrick, Carl A.
Holt, P. E.
Hvid, Rasmus M. (Engr. Mech. Dept.
Jager & Straus Minn. Steb & Mch. Co.)
Jessen, Jas.
Kavanaugh, Wm. H. (Exper. Engrg. Univ.
Longyear, Edmund of Minn.)
Lovill, W. D.
Macdonald, Duncan H. (Gen'l Supt. Mech. Dept. Minn. Steel & Mchy. Co.)
Pillsbury, Chas. L. (Consulting)
Shuman, Jesse W.
Staude, Edwin G. (Pres. & Managing Dir. E. B. Staude Mfg. Co.)
SAUK CENTER—Frankenfield, A.
Loovaas, J. G.
ST. PAUL—Claussen, Oscar, Nat'l G. A. Bank
Doty, Paul (V. P. & Gen'l Mgr. St. Paul Gas Lt. Co.)
Gardner, L. H. (Consulting), 1881 Selby av
Johnson, Ed. E. (Mfr. Wells Screens), Fillmore av
Loweth & Wolf, 1st Nat'l Bank bldg
Symons, Wilson E. (Supt. M. P. & Mchy, Chicago Great Western Ry.)
Toltz, Max E. R. (Manistee & Grand Rapids R. R. Co.)

## MISSISSIPPI.

JACKSON—Dudley, Chas.
STARKVILLE—Ard, Chas. E. (Engr. Arch. & Contr.)

## MISSOURI.

CARTHAGE—Green, Chas. H. (Mem. of Firm, M. A. Earl & Co.)
COLUMBIA—Hibbard, H. Wade (Prof. Mech. Engrg. Univ. of Mo.)
CRYSTAL CITY—Curtis, Edna H., Jr. (Supt. of Constr. Pittsburg Plate Glass Co.)
KANSAS CITY—Archer & Rollins (Consulting), Beals bldg
Bendit, Louis K. C. (Sales Engr.), N. Y. Life bldg
Brady, Jos. H. (Ch. Engr. Bd. of Ed.), Public Library bldg
Cushman, Frank, Jr. (Instr. & Dir. Dept. Mch. Tool Work, Manual Training H. S.)
Harrington, Jno. L. (Waddell & Harrington, Consulting), Orear-Leslie bldg
Hem, H. O. (V. P. & Supt. H. N. Stralt Mfg. Co.)
Kansas City Engineering Co., Postal Telegraph bldg.
Kent, Jas. M. (Elec. & Mech. Engr., Instr. Applied Steam & Elec., Manual Training H. S.)
Kniskern, W. H. (Secy. Freeborn Engrg. & Constr. Co.), Scarritt bldg
Manley, Summer Marshall (M. M. Proctor & Gamble Co.)
Meyer, C. Louis (Mech. Engr. W. K. Palmer Co.), also Omaha, Neb.
Palmer, W. K. Co. (Consulting), Dwight
Pennell, Arthur, Heist bldg bldg
Priestly & Edson, K. C. Life bldg
Prince Jno. Walter (V. P. & Treas. Freeborn Engrg. & Constr. Co.), Scarritt bldg
Sherman, C. K. (Western Rep. Under-Feed Stoker Co. of Am.)
Voetil, Theo., Century bldg
ST. LOUIS—Abadie, E. H. (Consulting), 3d Nat'l Bank bldg
Allen, Geo. L., Jr., 26 Westmoreland pl
Allison, Jas. E. (Consulting), Laclede bldg
Armstrong, Wm. M. (V. P. F. A. Goodrich Iron & Steel Co.), Chemical bldg
Ashton, Walter S. (Ch. Engr. St. Louis Brewing Assn.)
Ball, P. De C., Palm & Broadway
Bausch, F. E. (Mgr. Hooven, Owens Rentschler Co.), Chemical bldg
Bosley, Elijah M., De Meniel bldg
Boughton, Judson H. (Secy. & Treas. Nat'l Light & Improvement Co.), Pierce bldg
Boyce, W. D. Engineering Co. (Consulting, Electrical & Mechanical), Chemical bldg
Bryan, Wm. H. (Consulting), Lincoln Trust bldg
Bulkeley, Claude A. (Ch. Engr. Bd. of Ed.)
Dillon, Edw. L. (Rep. Fairbanks, Morse & Co.)
Einstein, Alfred C. (Pres. & Gen'l Mgr. St. Louis County Gas & Elec. Cos.), Howard bldg
Elliott & Barry Engineering Co., Mo. Trust bldg
Fay, Wm. (Consulting), Chemical bldg
Ferguson, Henry A. (Consulting Engr. & Gen'l Mgr. Steel Roof Truss Co.)
Flad, Edw. (Consulting), Fullerton bldg
Fuchs, Herman (Mgr. Mexican Dept. Fairbanks, Morse & Co.)
Garrels, W. L. (Consulting), 1707 S 3d
Gazzam, Jos. P., 5027 Westminster pl
Gildehaus, Richard, Jr., 3625 Russell av
Harrison, Edwin S., South Side Bank bldg
Higdon, Jno. C. (Mech. Engr. Atty-at-Law & Pat. Solicitor), Mo. Trust bldg
Holman, M. L. (Consulting Engr., Holman & Laird), Chemical bldg
Humphrey, Henry H. (Electrical, Mechanical), Chemical bldg
Hunter, Jno. (Ch. Engr. Union Elec. Lgt. & Power Co.)
Jewett, Frank N. (Sales Mgr. Wagner Elec. Mfg. Co.)
Kinealy, Jno. H. (Consulting), Granite bldg
Kupferle, Edw. (Pres. Kupferle Bros. Mfg. Co.)
Lichter & Jens (Consulting), Chemical bldg
McKinley, H. T., Security bldg
Martin, L. Wynee, 5545 Gates av
Meinholtz, Herman Chas. (V. P. & Supt. Heine Safety Boiler Co.)
Moore, Stanley H. (Dir. Mech. Arts, McKinley H. S.)
Moreno, Chas. A. (Consulting), Century bldg
Morrison, Herbert (Consulting), Syndicate Trust bldg
Nordmeyer, Louis C. (Secy. & Treas. Tait, Nordmeyer Engrg. Co.), Wright bldg
Ohle, Ernest L. (Prof. Mech. Engrg. Wash'n Univ.)
O'Neill, Jno. Francis (Pres. Fulton Iron Works)
O'Reilly, Andrew J. (Consulting), Pierce
Osterborn, Robert, 6312 Bailey pl bldg
Percival & Jones (Consulting), Burlington bldg
Posselt, Ejnar (Mech. Engr. & Asst. Mgr. St. Louis Portland Cement Works)
Potter, Wm. Bleecker (Mgr. & Ch. Engr. St. Louis Sampling & Testing Wks.)
Ruebel & Wells (Consulting Electrical, Mechanical), Chemical bldg
St. Clair, Jas. Thorpe, 5821 Clemens av
Struckmann, Holger (Ch. Engr. & Gen'l Mgr. Union Sand & Material Co.)
Tait, Roderick H. (Pres. Tait. Nordmeyer Engrg. Co.), Wright bldg
Terrell, Cary D. (Asst. Mgr. of Sales, S. W. Dist. Pressed Steel Car Co.)
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Wolff, H. Wm. (Ch. Mech. Engr. Am. Car & Fdry. Co.)
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WEBSTER GROVES—Matlack, Ellwood V.

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Garred, Ulysses A. (Mech. Supt. Anaconda Copper Mining Co.)
Wraith, Wm. (Supt. Washoe Smelter)
BUTTE—Naughten, Jas.
Nordberg, Carl V. (Rep. Nordberg Mfg. Co.)
GREAT FALLS—Towrey Engineering Co.
Whitten, B. D.
HYSHAM—Buckingham, Henry H.
MISSOULA—Richter, Arthur W., Univ. of Mont.

## NEBRASKA.

LINCOLN—Chowins, Chas. E. (Supt. of Bldgs., Grounds & Constr., Univ. of Nebr.)
Richards, Chas. R. (Dean of Engrg. & Prof. Mech. Engrg., Univ. of Nebr.)
OMAHA—Harriman, Norman F. (Chemist & Engr. of Tests, Union Pacific Lab.)
McKeen, Wm. R. Jr. (Pres. & Gen'l Mgr. Towl, R. M. McKeen Motor Car Co.)

## NEVADA.

LAS VEGAS—Wilcox, Wallace J. (Supt. M. P. Las. Vegas & Tonapah R. R.)
McGILL—Waddell, Geo. F. (Supt. of Constr. Steptoe Valley Smelting & Mining Co.)

## NEW HAMPSHIRE.

ALTON—Clough, Wm. R.
CHARLESTON—Webber, Sam'l
CLAREMONT—Bateman, Geo. Wm. (Asst. to Secy. & Wks. Mgr., Sullivan Mchy. Co.)
Fry, Thos. W. (Secy. & Wks. Mgr. Sullivan Mchy. Co.)
CONCORD—Crogham, Jno. T. (Ch. Engr. Concord Elec. Co.)
Lauder, Geo. B. (Mgr. Dux Toy Co.)
DOVER—Dean, Edmund W. (Mech. Engr. Kid-
Estes, Wm. M. der Press Co.)
DURHAM—Laton, Thos. J. (Instr. Drawing & Mech. Engrg. N. H. College)

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HANOVER—Dunn, Chas. Mch. Works)
HOOKSETT—Bourne, Stephen N. (Agt. Dundee Mills)
LITTLE BOARS HEAD—Jaques, Wm. H. (Civ. & Mech. Engr., Pres. Hampton Water
MANCHESTER—Thompson, Albert W. (Supt. Mch. Shop, Amoskeag Mfg. Co.)
White, Arthur M. (Supt. Am. Loco. Co.)

## NEW JERSEY.

AMPHERE—Wheeler, Schuyler S. (Pres. Crocker, Wheeler Co.)
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BAYONNE—Conrad, Ernest B. (Supt. Elec. Launch Co.)
Gray, Jno. Lathrop (Supt. Paraffine Lubricating Dept. Tide Water Oil Co.)
Jacobi, Albert W. (Engr. & Asst. Supt. Mech. Dept. Tidewater Oil Co.)
Sneddon, Jas. P. (Gen'l Supt. Babcock & Wilcox Co.)
BLOOMFIELD—Allan, Percy (Treas. Jenkins Mfg. Co.)
Baylis, Robt. N. (Pres. & Engr. Baylis Co.)
Church, Herbert B. (Supt. Consol. Safety Pin Co.)
Henderson, Robt. Halsey (Mgr. of Works Westinghouse Lamp Co.)
BOUNDBROOK—Ball. Frank H. (V. P. & Gen'l Mgr. Am. Engrg. Co.)
BRIDGETON—Smith, Oberlin
BURLINGTON—Conrad, Wm. R. (Insp. & Milnor, Thos. W. Tests of Materials)
CAMDEN—Dennison, Wilburn N. (Mech. Engr. Victor Talking Mch. Co.)
Graves, Edwin
Greul, W. Herman (Vaughn Bros.), Coop-
Kauffman, F. F. ers pt
Magoun, Henry (V. P. N. Y. Ship Bldg. Co.)
May, DeCourcy (Pres. N. Y. Ship Bldg. Co.)
Moore, Edwin A. (Pres. Am. Coke & Gas Constr. Co.)
Webster, Warren (Pres. Warren Webster & Co.)
CARTERET—Brown, Jno. J. (V. P. & Gen'l Mgr. Wheeler Condenser & Engrg. Co.)
CHROME—Deacon, Ralph W. (Asst. Supt. W. S. Metals Refining Co.)
DOVER—Guckel, Chas. H. (Treas. & Gen'l Mgr. Dover Elec. Lgt. Co.)
EAST NEWARK—Horstmann, Hy. J. (Mech. Engr. E. W. Horstmann Co.)
EAST ORANGE—Barr, Harry P.
Berry, Edgar H.
EDGEWATER—Kent, Ellis C. (Engr. Warner Sugar Refinery)
ELIZABETH—Bradley, Carl D. (Pres. Sam. L. Briggs, Wm. C. Moore & Sons Corp.)
Carroll, Alex. W.
Holt, Frank E. (Ch. Engr. Singer Mfg. Co.)
Miller, Lebbeus B.
Moore, Sam'l L. (V. P. & Gen'l Mgr. Moore Bros Co.)
Rose, Harry M. (Mech. Engr. & Expt.)
FARFIELD—Schneider, Paul E. (M. E. N. J. Worsted Spinning Co.)
GARWOOD—Tuttle, Willard S. (Pres. Garwood Bronze & Iron Works)
HARRISON—de Laval, Carl Geo. (Gen'l Mgr. Hy. R. Worthington)
Shriver, Harry T. (Prop. T. Shriver & Co.)
Steenstrup, Peter S. (Sec. Hyatt Roller Bearing Co.)
HIGH BRIDGE—Haughton, Frank A. (Gen'l Supt. Taylor Iron & Steel Co.)
Sherred, Jno. M. (Gen'l Sales Agt. Taylor Iron & Steel Co.)
Van Valkenburg, Ralph D. (Engrg. Salesman Taylor Iron & Steel Co.), also Scranton, Pa.
HOBOKEN—Denton, Jas. E. (Prof. Engrg. Practice, Stevens Inst. of Tech.)
Fletcher, Andrew (Pres. & Treas. W. & A. Fletcher Co.)
Furman, Franklin De R. (Prof. Mechanism & Mch. Design, Stevens Inst. of Tech.)
Humphreys, Alex. C. (Pres. Stevens Inst. of Tech.)
Pryor, Fred'k L. (Prof. Exper. Engrg., Stevens Inst. of Tech.)
Stanton, Francis A. (City Engr.), 1104 Bloomfield
Stevens, E. A. (Pres. Hoboken Land & Impt. Co.)
JERSEY CITY—Baldwin, Frank R., 39 Winfield av
Benton, Morris F., 300 Communipaw av
Davey, Warren (Mech. & Ch. Engr. Colgate Co.)
Ducommun, Edw. (Asst. Ch. Engr. Am. Sugar Refining Co.)
Flynn, Wm. S., 76 Hudson
German Mfg. Co. (Electro-Mech'l), 214 Ocean av
GRISCOM-SPENCER CO. (Consulting & Contracting), Grand & Sussex. (See adv. index, end of book)
Hagar, Arthur P. (Engr. Marine Dept., Safety Car Heating & Lightg. Co.), 206
Horne, H. F., 117 West Side av Erie
Johnson, F. A., 22 Morris
Krause, A. E. (Struc. & Mech. Engr.), 845 Fairmount av
Lindstrom, Nils, Oscar (Supt. A. B. See Elec. Co.)
McIntosh, Wm. (Supt. M. P. Central R. R. of N. J.)
Mueller, V. H. (Ch. Draftsman, M. W. Kellogg Co.), West Side av
Newcomb, Robt. Scott (Griscom-Spencer Co.)
Snyder, Leo H. (Jos. Dixon Crucible Co.)
Tompkins, Sam'l (Pres. Smooth-on Mfg.
White, Geo. Co., 24 Morris Co.)
LONG BRANCH—Slocum, Chester A.
MAHWAH—Sargent, Fitz-William (Ch. Engr. Am. Brake Shoe & Fdry. Co.)
MAURER—Pennington, Jas. H. (Mech. Engr. Supt. of Cons. & Power, Am. Smelting & Refining Co.)
MONTCLAIR—Burton, Frank H.
Kent, Wm.
Porter, Chas. T.
Whittlesey, Jas. T. (Ch. Engr. Elec. Dept. Public Ser. Corp. of N. J.)
NEWARK—Abercrombie, Jas. H. (Mech. Supt. Clark Thread Co.)
Baudermann, Jos. A. G. (Consulting), 22 Clinton
Binsse, Hy. B. (Pres. Binsse Mch. Co.)
Campbell, Geo. Watts (Mech. Engr. & Mill Arch.), 171 Broad
Cash, A. W. (Consulting), 313 Market
Core, W. W., 28 Sherman av
Day, Chas. P. (Consulting), 196 Market
Eberhardt, F. E. (V. P. & Treas. Newark Gear Cutting Mch. Co.)
Eberhardt, Fred'k L. (Pres. & Gen'l Mgr. Gould & Eberhardt)
Eberhardt, Hy. (Sec'y Newark Gear Cutting Mch. Co.)
Farrand, D. (Gen'l Mgr. Elec. Dept. P. S. Corp. of N. J.)
Foster, Jno. M. (Pres.), 109 Monroe
Fraentzel & Richards (Eng. & Patent Attys), 804 Broad
Fritz, Aime L. (Tee Square & Triangle Co.), 30 Clinton
Gott, Jos., Jr. (Consulting & Contr. Engr., Gott & Liebhardt)
Harrington, Harry G., 39 Pacific
Hickok, H. Addison (Consulting), 11
Murdock & Son, 33 Wallace pl Clinton
Nate, Emile H., 154 Seymour av
Ogden, F. H. Co. (Consulting), 15 Clinton
Owen, Jas. (Consulting), 196 Market
Parsons, W. Everett, 134 3d av
Phelps, Fred A., 11 Clinton
Phillips, Franklin (Pres. Hewes & Phillips Iron Works)
Reinhold, Dr. Otto F. (Eng. & Technical Laboratory), 53 Demarest
Richardson, Geo. P. (Mech. Engr. of Instr., Isbell-Porter Co.)
Roberts, Geo. J. (1st V. P. Pub. S. Corp. of N. J.), Prudential bldg
Runyon, Fred'k O. (Consulting Engr., Runyon & Carey), 122 Market
Seymour, Jas. M., Jr. (Consulting & Contracting), 51 Lawrence
Shepard, Louis A. (Sec'y Atha Steel Casting Co.)
Stewart Engineering Co. (Elect'l & Mech'l), Stewart, Matt. Co., 61 Mulberry Lawrence
Taylor, Percy B. (Consulting), 800 Broad
Tremaine, E. G. (Automatic Weighing Mch. Co.), 136 Commerce
Volz, Phillip (Elect'l & Mech'l), 800 Broad
Weston, Edw. (Pres. Weston Elec. Instr. Co.)
Wilson, Jas. Edw. (M. M. Nat'l Lock Washer Co.)
NEW BRUNSWICK—Heck, Robt. C. H. (Prof. Mech. Engrg. Rutgers College)
NEW LISBON—White, Jos. J.
ORANGE—Buckley, Henry W.
Durand, Nelson C. (Mgr. of Sales, Edison Business Phonograph Co.)
Dyer, Frank L. (Pres. Nat'l Phonograph
Northrup, Francis B. Co.)
PASSAIC—Appleon, Henry W. (Mech. Supt. Passaic Print Works)
Bryant, F. J. (M. M. Andrew McLean Co.)
Kresser, L.
Lyall, Wm. L. (Treas. Brighton Mills)
Rohlig, Geo. G. (Gen'l Supt. Botany Worsted Mills)
Scheel, Henry (Brighton Mills)
Scott, J. A. (Naval Arch. & Marine Engr.)
Uehling, Edw. A. (Pres. Uehling Instr. Co.)
Weichert, Arnold E. (Robins Conveying Belt Co.)
PATERSON—Ackerman, Wm. S. (Consulting), Brock, Wm. M. Colts bldg
Christie, Wm. Wallace (Consulting), Citizens' Trust bldg
Cooke, Fred W. (Mgr. Am. Loco. Co.)
Ferguson, J. W., 152 Market
Hughes, Robt. G. (Sec'y & Mech. Engr. Milson, Thos. H. Jno. Ferguson Co.)
Royle, Vernon (Pres. & Treas. Jno. Royle & Sons)
Strom, Carl A. (Mgr. Rogers Works, Am. Loco. Co.)
Wilder, Sylvanus W. (Supt. Dolphin Jute Mills)
PERTH AMBOY—Antisell, Frank L. (Asst. Supt. Raritan Copper Wks.)
PHILLIPSBURG—Larned, Stephen H.
Prellwitz, Wm. (Ch. Engr. Ingersoll-Rand Co.)
PLAINFIELD—Hibbard, Henry D. (Consulting)
Hollingsworth, Sam'l
MacMurray, Jas. T. (Gen'l Mgr. Niles-Bement-Pond Co.)
Saltzman, Aug. (Charge Drafting Dept. Walter Scott & Co.)
Stebbins, Albert C. (V. P. Niles-Bement-
Stutz, C. C. (Consulting) Pond Co.)
PRINCETON—Wilson, Fred'k N. (Prof. Descriptive Geom. & Tech. Drawing, Prince-
ROSELLE—Higgins, Campbell P. ton Univ.)
Moore, Miller F.
RUTHERFORD—Anderson, Jas. C. (Consulting & Contr.)
STEWARTSVILLE—Herter, Emil (Mech. Engr. Edison Crusher Co.)
Mason, Wm. H. (Supt. Edison Portland Cement Co.)
TRENTON—Chasteney, Chas. D. (M. E. Sales Mgr. de Laval Steam Turbine Co.)
D'Unger, Ellwood
Guy, Albert E. (Ch. Engr. de Laval Steam Turbine Co.)
Hewitt, Wm. (Trenton Iron Co.)
Huttinger, Wm. R. Supt. Mch. Shop, Trenton Malleable Iron Co.)
Smith, Jas. W. (Supt. Trenton Iron Co.)
VINELAND—Jackson, Chas. J. (Mgr. Jackson Vise & Tool Co.)
WATCHUNG—Moldenke, Rich'd (Sec'y Am. Foundrymen's Asso.)
WEEHAWKEN—Sullivan, H. W. (Mgr. Union Drydock Co.)
WEST ORANGE—Edison, Thos. A. (Inventor)
WOODBRIDGE—Edgar, Ellis F.

## NEW MEXICO.

ALBUQUERQUE—Huning, Arno E. (Sec'y & Treas. Nash Elec. Supply Co.)
SAN PEDRO—Case, Albert H. (Supt. Santa Fe Gold & Copper Mining Co.)

## NEW YORK.

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Kelley, Fred'k W. (V. P. Helderberg Cement Co.)
McElroy, Jas. F. (Consulting Engr. Cons. Car Htg. Co.)
Massa, Robt. F. (Creamery Package Mfg. Co.)
Wheeler, Seth (Pres. A. P. W. Paper Co.)
Wheeler, Seth, Jr. V. P. & Gen'l Supt. A. P. W. Paper Co.)
AUBURN—Carlsson, Carl A.
Dyer, Robt. A., Jr. (Asst. Gen'l Mgr. Rochester, Syracuse & Eastern R. R. Co.)
Gerrish, Wm. H. (Supt. Soft Fibre Dept. Columbia Rope Co.)

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Seymour, Jas. A. (McIntosh, Seymour & Co.)
BALDWINSVILLE—Lager, Carl A. (Supt. Morris Mch Wks.)
BELLSPORT—Vose, Clarence
BINGHAMTON—Bates, Alex. B. (Rear Admiral U. S. Navy, Ret.)
Churchill, Chas. O. (Supt. Georgian Mfg. Co.)
Cobb, Geo. H. (Supt. N. Y. Transit Co.)
Conlee, Geo. D. (Supt. Binghamton Gas Works)
Harris, J. F. (Consulting)
Harris, J. F.
BUFFALO—Adams, Wm. F., 954 Main
Adsit, Jno. O., Ellicott sq
Bardol, Frank V. E. & Co., D. S. Morgan bldg
Barr, Wm. H. (Gen'l Mgr. Lumen Bearing Co.), 1155 Sycamore
Baxter, A. E. (Eng. & Appraisal Co.), Ellicott sq
Bierbaum, Christopher H., Prudential bldg
Booth, Chas. A. (Charge Engrg. Sales Buffalo Forge Co., Buf. Steam Pump Co.)
Boyd, Henry A., Erie Co. Bank bldg
Brewster, Frank H. (Gen'l Supt. W. S. Rubber Reclaiming Wks.)
Buffalo Engineering Co., Erie Co. Bk. bldg
Bunge, Julius H., 214 Ashland av
Busch & Percival, Brisbane bldg
Carrier, Willis H. (Ch. Engr. Buffalo Forge Co.)
Cloudsley, Jas. B. (Ch. Engr. Pumping Sta., Bureau of Water)
Conkling & Boardman (Consulting), Ellicott sq
Cooke, Geo. W. (Supt. Pierce Arrow Motor Car Co.)
Cooke, Jas. F., 19 Tupper
Danforth, Jno. W. Co., 70 Ellicott sq
Danforth, N. L. (Treas. Jno. W. Danforth Co.)
Dieter, Louis F., 490 E. Utica
Dollar, Wm. H. (Consulting), Erie Co. Bank bldg
Gail, Harry M., Mutual Life bldg
Gannett, Herbert I. (V. P. & Gen'l Mgr. Monarch Acetylene Co.)
Gath, Andrew L. (Branch Mgr. Manning, Maxwell & Moore, Inc.)
Gibney, Jas. W. (Supt. W. P. Taylor Co.)
Gregory, Jos. N. (Mgr. for Western N. Y. Dearborn Drug & Chemical Works)
Grissinger, Elwood White bldg
Hammond, Rich'd (Pres. Lake Erie Engrg. Works)
Hyman, D. (V. P. Empire Limestone Co.)
Jackson, Lucian C. (Consulting Gas Engr. Expert), D. S. Morgan bldg
King, W. Grant (V. P. & Gen'l Mgr. King Sewing Mch. Co.)
Kleinschmidt, Frank, Builders Exchange
Laidlaw, W. (V. P. & Gen'l Mgr. Snow Steam Pump Wks.; also Cincinnati, O.)
Landon, A. A. (Gen'l Supt. Plants, Am. Radiator Co.)
Miles, H. D. (Pres. Buf. Fdr. & Mch. Co.)
Morse, C. M. (Ch. Engr. Buf. Engrg. Co.)
Perkins, Frank C. (Consulting Elec'l & Mech'l), Erie Co. Bk. bldg
Radley, Richard (Consulting), Ellicott sq
Ricker, Geo. A. (Consulting), Ellicott sq
Roper, D'Arcy W. (Sec'y & Asst. Treas. Gt. Lakes Constr. Co.)
Shantz, O. S. (Shantz Mfg. Co.)
Sheldon, Sam'l B. (Gen'l Supt. Lacka Steel Co.)
Shoemaker, Frank A. (Consulting), Builders' Exchange
Sornberger, Edwin C. (Sales Engr. Allis Chalmers Co.)
Stevens, Harold L. (Dist. Sales Agt. Lacka Steel Co.)
Streeter, Robt. L. (Instr. Mch. Design, Buf. Tech. H. S.)
Trefts, Jno. C. (Farrar & Trefts), 56 Perry
Wannenwetsch & Co., 363 William
Wilke, Wm. L., Jr., 86 Norwood av
CANASTOTA—Casler, Herman
DEPEW—Richards, Willard F. (Mech. Supt. Gould Coupler Co.)
DUNKIRK—Hequembourg, Chas. G. (Contr. & Engr.)
ELMIRA—Flinn, Thos. C. (Gen'l Supt. Kennedy Valve Mfg. Co.)
Kennedy, M. E. (Sec'y & Asst. Supt. Kennedy Valve Mfg. Co.)
FISHKILL-ON-HUDSON—Blackburn, Arthur H.
Challen, Paul J. (Consulting Engr. Supt. Gillet, Louis A. Tioronda Hat Works)
Moorehouse, Wm. S.
GENEVA—Bowen, Ernest S. (V. P. & Gen'l Supt. Fay & Bowen Eng. Co.)
GLENS FALLS—Hoopes, Maurice (Pres. Finch, Pruyn & Co.)
Kasson, R. S. (Pres. Kasson Constr. Co.)
GROTON—Brown, J. Grove (Mech. Engr. Monarch Road Roller Co.)
HIGH FALLS—Canniff, Wm. L. (M. M. T. A. Gillespie Co.)
HILLBURN—Snow, Wm. W.
HILLSDALE—Logan, Jno. D. (Consulting)
HOOSICK FALLS—Cluett, Sanford L. (V. P. & Sec'y Walter A. Wood M. & R. M. Co.)
ILION—Calder, Jno. (Mgr. Remington Typewriter Works)
Tyler, Chas. C. (Wks. Mgr. Remington Arms Co.)
ITHACA—Barnard, Wm. N. (Prof. Steam Engrg. Sibley College, Cornell Univ.)
Berna, Geo. (Pres. Hygeia Ice Co.)
Carpenter, Rolla C. (Prof. Expl. Engrg. Sibley College, Cornell Univ.)
Diederichs, Herman (Prof. Expl. Engrg. Cornell Univ.)
Hirshfield, Clarence F. (Prof. Power Engrg. Sibley College, Cornell Univ.)
Kimball, Dexter S. (Prof. Mch. Design & Constr. Sibley College, Cornell Univ.)
Morse, Everett F. (Morse Thermo Gage Rites, Francis M. Co.)
Stephenson, Hermann (Instr. Exper. Engrg. Cornell Univ.)
LOCKPORT—Bishop, Chas. R. (Sec'y & Gen'l Mgr. Am. Dist. Steam Co.)
MT. VERNON—Could, Webster V. (N. Y. Rep. Jones & Lamson Mch. Co. of Kelsey, Walter Springfield, Vt.)
Monks, Wm. D.
Sanguinetti, Percy (Consulting)
MIDDLETOWN—Flory, Burton P. (Supt. M. P. Ont. & Western Ry. Co.)
MORRISTOWN—Cruikshank, Barton (Consulting)
NEWBURGH—Penney, Edgar (V. P. & Gen'l Mgr. Newburgh Ice Machine & Engine Co.)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Abbott, Fred'k B., 490 7th
Aiken, Chas. W. (Sec'y & Treas. Houchin-Aiken Co.), 35 53d
Baldwin, J. Edw. (Sec'y Fulton Eng. Co.)
Ball & Jewell, 24 Franklin
Bennett, Geo. L., 290 Linden av, Flatbush
Blackwell, Henry F. (Electro-Mech'l), Municipal bldg
Blanchard, Frank G. (Electro-Mech'l), 344 Fulton
Booraem, J. V. (Consulting), 204 Lincoln
Briggs, J. & Co., ft 24th pl
Burr, Jno. T., 429 Kent av
Burr, J. S. (J. T. Burr & Son)
Cole, Henry W., 453 3d
Corbett, Chas. H. (V. P. Continental Iron Works)
Cremer, Jas. M., 410 Classon av
Davidson, Marshall T. (Pres. M. T. Davidson Co.), 43 Keap
Davis, Robt. G. (Consulting & Constr. Engr), 454 48th
Dixon, Chas. F. (Constr. Engr.), 5705 14th
Dobson, W. J. M. (Consulting), 398 Adelphia
Doughty, Geo. A. (Sec'y Logan Iron Wks.)
Engel, Godfrey (Sonstr. Engr. Am. Sugar Ref. Co.)
Engel Louis G., 169 Columbia Hghts
Ennis, Wm. Duane (Prof. Mech. Engrg. Poly Inst.)
Fladd, F. C. (Traveling & Consulting Engr. E. W. Bliss Co.; also New Canaan, Conn.)
Flinn, T. F. (Hanbury & Flinn Iron Wks.)
Fulton, John, Municipal bldg
Gabriel, Chas. R. (Consulting & Designing Engr. E. W. Bliss Co.)
Gove, Wm. G., 85 Clinton
Grossman, Albert (V. P. Pioneer Iron Works)
Haglund, Gus, 79 Garfield pl
Hamilton, Jas. V., 54 Beard
Hatch, Edwin G., 857 Marcy av
Hillmann, Gus (Naval Arch.), 470 Green av
Huff, S. W., 259 Franklin av
Kaup, Wm. Jos. (Head of Mch. Constr. Pratt Inst.)
Kent, Robt. Sayre (Engr. in Charge Arbuckle Bros. Sugar Refinery)
Krottnauer, A. E., 760 Coney Island av
Langlotz, Chas. (Mech. Supt. Bklyn. Coop-erage Co.)
Langlotz, Robt., 78 Delevan
Larkin, Fred. A., 570 Ocean av, Flatbush
Leavitt, Frank M. (Consulting), 133 Plymouth
Lenfest, Bertram A., 1524 76th
Logan, Frank J., 285 De Kalb av
McFarlan, Edw., 360 Jefferson av
Maxwell, Max C. (Head of Dept. Applied Mechanics, Sch. of Science & Tech. Pratt Inst.)
Meissner, Chas. F., 262 20th
Mesick, D. W., 25 Furman
Montague, Chas. D., 66 Waldorf ct
Muhl, J. E. (Elec'l-Mech'l), 24 Dodworth
Nash, Lewis H. (Mech. Engr. Nat'l Meter Co.)
Norris, J. H., 4207 1st av
Obert, Casin W. (Sec'y & Treas. Bklyn. Mch. Co.)
Ould, Jno. G. (Supt. & Ch. Engr. Polhemus Memorial Clinic)
Patton, Jno. H. (Engr. & M. M. N. Y. Tanning Extract Co.)
Post, Geo. Adams, Jr. (Pres. Post & Rodger Co.)
Reeve, Henry E. (Consulting), 459 Carroll
Roehl, Chas. E. (Elec'l-Mech'l), 85 Clinton
Rowland, Chas. B. (V. P. Continental Iron Works)
Rowland, Thos. F., Jr. (Pres. Continental Iron Works)
Sar Vant, Wilbur N., 16 Verona pl
Scott, J. W. (Supt. Arbuckle Bros.), Ft.
Scott, Seaton M., 55 Hawthorne
Sherman, W. D. (M. E. Inventor & Supt.), 85 9th
Slawson, Harry H., 345 Eastern Parkway
Thompkins, S. (Ch. Engr. C. I. & B. R. R. Co.)
Viola, B. (Managing & Ch. Engr. Chem. Wks. of Chas. Pfizer & Co.)
Weiss, Louis T., 290 Taaffe pl
White, Herbert J., 439 8th
Whitley, Frederic N., 215 Fulton
Williston, A. L. (Dir. Dept. Science & Tech., Pratt Inst.)
Wood, Frank J. (Ch. Engr. Marx & Rawolle's Glycerine Factory)
Wright, Richard A., 350 Fulton
Wynkoop, Hubert S. (Electro-Mech'l), Dpt. Water Supply

### Boroughs of Manhattan & Bronx.

NEW YORK—Abbe, Chas. C., 150 Nassau
Abell, H. C. (Emerson, McMillan & Co.), 40 Wall
Abrams, Herbert T. (Mgr. Pump Dept. Ingersoll-Rand Co.), 11 B'way
Abrake, H. P. (Pa. T. & T. R. R. Co., Office of Ch. Engr. of Elec. Traction), 8 Bridge
Albee, Orion W., 949 B'way
Alberger, Louis R. (Pres. Alberger Condenser Co.), 95 Liberty
Albertson Power Transmitter Co., 47 W 34th
Aldcorn, Thos. (Gen. Eastern Sales Mgr. Chicago Pneu. Tool Co.), 50 Church
Alexander, Harry (Elec. & Mech. Contr. Engr. Astor Court bldg.), 18 W 34th
Alexander, L. B. (V. P. Haggerty Contr. Co.), Davidson av & Fordham rd
Alford, Leon P. (Engrg. Editor Am. Machinist), 505 Pearl
Allan, Wm. T. (Andrew Allan & Sons), 486 Greenwich
Allbee, Elmer E., 2 Rector
Allen, Carlton B. (h. Engr. Marine Dept. N. Y., N. H. & H. R. R. Co.), Harlem River Sta
Allen, Walter C. (Gen. Mgr. Yale & Towne Mfg. Co.), 9 Murray
Allyn, Robt. S. (Counsel & Expt. in Patent Causes), 16 Exchange pl
Almirall, J. A. (Htg. & Vent. Engr.), 281 Water
Alton Engineering Co., 149 W 36th
Am. Soc. of Mechanical Engineers, 29 W 39th
Arnott, R. Fleming (Consulting), 95 Liberty
Auderton, Geo., 29 B'way

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Andrews Engineering Co. (Power Plants, Engines, etc.), 120 Liberty
Arden, Harry B., 206 B'way
Armstrong, Frank J., 149 B'way
Artaud, Theo. P. (Asst. to V.-P. & Pur. Agt. Hud. & Man. R. R.), 30 Church
Ashley, Frank M. (Pat. Atty. & Consulting Engr.), Tribune bldg
Atkins, Harold B. (Production Engr. & Pub. Acct.), 154 Nassau
Atwater, Chris. G., Whitehall bldg
Atwood-Rearick Co., 30 Church
Avram, M. H., 350 B'way
Bacon, Earl C., 26 Cortlandt
Bacon, Fred'k T. H. (Consulting), 30 Church
Bacon, Geo. W. (Mech. Engr., Mem. of Firm Ford, Bacon & Davis), 115 B'way
Baker, Chas. W. (Ed. Engrg. News), St.
Baker, Geo. O., 30 Church Paul bldg
Baker, Wm. E. & Co., 105 W 40th
Balch, Samuel W., 67 Wall
Baldwin Engineering Co. (Consulting, Heating & Ventilating), 209 W 33rd
Baldwin, Wm. J. (Consulting), World bldg
Barlow, E. S. (V.-P. & Treas. Hedden Constr. Co.), Madison av
Barratt, Edgar G. (Pres. Union Bag & Paper Co.), 17 Battery pl
Barwick, Thos. Engineering Co. (Consulting), 15 Park row
Barford, Geo. M. (Asst. to Pres. Am. Loco. Co.), 30 Church
Basinger, Jas. G., 52 B'way
Batchelor, Chas., 33 W 25th
Bavier, Chas. S. (Ch. Engr. Met Life Ins. Co. Bldg.), 1 Madison av
Beekman, Jno. V. (Gen. Supt. Lidgerwood Mfg. Co.), 96 Liberty
Behn, Carl (Mgr. Buffalo Refrig. Mch. Co.), 126 Liberty
Benjamin, Chas. W., 206 B'way
Bennett, Orville G., 46 Wall
Benns, Chas. P. (Supt. Bldgs. & Grounds. Teachers' Grounds, Columbia Univ.)
Benton, Geo. H. (Mgr. Valve Dept. Fairbanks Co.)
Bergen, C. W., 170 B'way
Berggren & Pearson Machine Co., 221 Canal
Berliner, Richard W. (V. P. Hedden & Sons Co., Bldrs. Met. Tower)
Berryman, Wilson G. (Engr. Combustion Utilities Corp.), 60 Wall
Best, Wm. N., 11 B'way
Best, Wm. N., Jr., 11 B'way
Billings, Wm. R. (Secy. & Treas. Alberger Condenser Co.), 95 Liberty
Billow, A., 172 Forsythe
Bird, Thos. I. (Consulting), 305 5th av
Black & Loder Co., 30 Church
Blackwell, Josiah L., 27 William
Bliss, Collins P. (Prof. Mech. Engrg. N. Y. Univ. & Bliss & Griffiths), 225 5th av
Blum, Jos. K., 146 Central park W
Boller, Alfred P., Jr., 45 E 17th
Bolton, Reginald P. (Consulting Expt.), 527 5th av
Booraem, J. F. (Secy., Treas. & Mgr. Am. Enam. Brick & Tile Co.), 1 Madison av
Bourne, Frank, 26 Cortlandt
Bonton, Geo. I., 11 B'way
Bowman, Austin L. (Consulting), 165 B'way
Boyd, Jas. Churchill (Consulting), 10 Bridge
Boyd, Jno. J. (Pres. Hud. Engrg. Co.), 90
Boyd, Willard A., 38 E 22nd West
Boyer, Edwin S. (Mech. Engr. Office W. Kidde Engr. Constr.), 140 Cedar
Bradley, W. H. (Ch. Engr. Cons. Gas Co.), 4 Irving pl
Braine, Bancroft G. (Engr. Rail Joint Co.), 29 W 34th
Brennan, Daniel, Jr., 140 Liberty
Brice, Andrew T., 13 Park row
Briggs, Jas. M., 154 Nassau
Brighman, Lucien M. (Sales Mgr.), 85 Liberty
Brinsmade, Louis L. (Eastern Sales Mgr. Westinghouse Mch. Co.), 165 B'way
Bronder, Gaston A., 229 B'way
Broome, Ernest L. (Mech. Engr. Viele, Blackwell & Buck), 39 Wall
Broome, Joseph (Consulting, Industrial Power Equipment & Machy.), 123 Liberty
Brown, Dixon Q. (Tidewater Oil Co.), 11 B'way
Brown, Herman E. (Ch. Engr. Am. Cement Engrg. Co.), 315 5th av
Brown, Howard H. (Ed. International Marine Engrg.), 17 Battery pl
Bruckner, Rudolph E. (Ch. Engr. Com. Acetylene Co.), 80 B'way
Bruff, Chas. E. (N. Y. Mgr. Power & Mining Mchy. Co.), 115 B'way
Bryce, J. Wares, 76 William
Buck, Irwin (Mgr. Alcohol Utilities Co.), 156 W 23rd
Bulkley, Hy. W., 141 B'way
Bunnell, Sterling H. (Wks. Mgr. Griscom-Spencer Co.), 90 West
Burhorn, Edwin, 71 Wall
Burns, A. L. (V. P. Jabez Burns & Sons), 600 W 43d
Burr, Wm. H. (Consulting Engr. & Prof. Civ. Engrg. Columbia Univ.)
Bushnell, Douglas S., 26 B'way
Caldwell, Economy Co., 220 B'way
Caldwell, H. W. & Son Co., 50 Church
Caldwell, Jno. A., 220 B'way
Campbell & Co., 300 E 64th
Carbone, Mario, 102 W 56th
Carlton, Willard G. (Supt. of Power Elec. Div. N. Y. C. & H. R. R. R.), Grand Central Sta
Carlile, Wm. E., 140 William
Carnegie, Andrew, 2 E 91st
Carpenter, Allan, 103 N Moore
Carpenter, Chas. W. (Pres. Herring-Hall-Marvin Safe Co.), 400 B'way
Carpenter, Rolla C., 68 William
Carpenter & Faile, 68 William
Carse, David B. (Pres. David B. Carse & Co.), City Investing bldg
Carse, Jno. B. (Mem. Advisory Com. U. S Steel Corp.), 71 B'way
Cory, Albert A. (Consulting Steam & Fuel Gas Equipment), 95 Liberty
Chambers, Frank R., Jr. (V. P. Duplex Metal Co.), 30 Church
Chambers, Norman C. (Sales Dept. Niles-Bement-Pond Co.), 111 B'way
Chandler, Irving A. (Consulting), 120 Liberty
Child, Ernest T. (Secy. G. A. Suter & Co.), 112 Wooster
Christie, Lindsay R., 50 Church
Church, E. D., Jr. (Secy. Church & Dwight Co.), 63 Wall
Church, Elihu C. (Lecturer in Civ. Engrg. Columbia Univ.)
Clark, Walter L. (V. P. Niles-Bement-Pond Co.), 111 B'way
Clarke, Chas. L. (Pat. Expt. Elec. & Mech. Engr.), 120 B'way
Clarke, Samuel J., 51 Wall
Cobleigh, Henry R. (Mech. Editor Iron Age), 14 Park pl
Coffin, Frank M. (Supt. of Constr. & Repairs, The Maintenance Co.), 54 Franklin
Cole, Edw. S., 220 B'way
Cole, G. W. (Inc.), 50 Church
Collett, S. D. (V. P. & Eastern Mgr. Elevated Supply & Repair Co.), 114 Liberty; also Chicago, Ill.
Colonial Engineering Co., 543 E 116th
Colvin, Fred. H. (Asst. Editor Am. Machinist), 505 Pearl
Combustion Utilities Co., 60 Wall
Conradson, C. M., 949 B'way
Darby, Jno., 7 E 42nd
Darby-Meeker Co., 7 E 42nd
Comstock, Louis K. (Pres. L. K. Comstock & Co., Inc.), 50 Church
Connon, Geo. W. (Engr. in charge work N. Y. Office Honolulu Iron Wks. Co.), 11 B'way
Corry, Wm. (V. P. Chrome Steel Works), 11 Pine
Coryell, Edwin Miers, 433 E 23rd
Coster, Edw. L., 25 Broad
Coster, Maurice, 165 B'way
Craig, Jas., 556 W 34th
Cramp, Edwin S., 127 E 61st
Crawley, Geo. E., 68 Broad
Creelman, Frank, 447 W 23rd
Cullingworth, Geo. R. (M. E. Garvin Mch. Co.), Spring & Varick
Curtis, Greely S. (Consulting Engrg. Fire Dept. Expt.), 73 Maiden la
Dale, Orton G. (Mgr. Mead-Morrison Mfg. Co), 149 B'way
Dally, Jno. H. (Ch. Engr. N. Y. Stock Exch.), 10 Broad
Darrin, David H. (Consulting), 131 Liberty
Dashiell, W. W. (Pres. & Gen'l Mgr. N. Y. Lubricating Oil Co.), 1116 Broad
Davies, Geo., 50 Church
Dawley, Clarence A. (Consulting), 323 W 77th
Dearborn, Wm. L. (Secy. & Treas. Eastwick Engrs. Co.), 42 B'way
De Hart & Stafford, 114 Liberty
De Lamater, O. R. (Secy. Mitchell Motor Co. of N. Y.), 1876 B'way
De Lukacsevics, Chas., 210 Canal
Dewson, Edw. H. (Res. Engr. Westinghouse Air Brake Co.), 165 B'way
Dickerman, Wm. C. (V. P. Am. Car & Fdry Co.), 165 B'way
Dickey, Wm. D. (Consulting), Produce Ex.
Dickinson, Wm. N. (Mgr. Foreign Dept. Otis Elev. Co.), 17 Battery pl
Dinkel, Geo. (Consulting Engr. Am. Sugar Refin. Co.), 117 Wall
Dix & McMeekan, 30 Church
Dixon, J. Alfred, 2 Rector
Dixon, Robt. M., 2 Rector
Dobson, Frank, 319 E 53d
Dodwell, Jno. G. (Ch. Engr. 14th St. Store)
Doelling, Louis K. (V. P. & Gen'l Supt. De La Vergue Mch. Co.), ft. E 138th
Doherty, Henry L., 60 Wall
Donnelly, Wm. T. (Consulting), 135 B'way
D'Oher Engineering Co., 114 Liberty
Double Acting Engine Co., 1072 Grant av
Downs, Wm., 90 West
Ducas, Chas., 30 Church
Ducasse, Hy. & Co. (Inc.), 735 7th av
Dugan, Geo. A. Co., 160 5th av
Earll, Chas. I., 11 B'way
Eaton, S. Edward & Co., 662 Hudson
Eden, Louis E. (Estimating Engr. Robt. A. Keasbey Co.), 100 N Moore
Edgecomb, J. C. & Co., 100 William
Edson, Jarvis B., 313 W 7th
Edwards, Jos. & Co., 414 Water
Eilers, Karl E. (Am. Smelt. & Refin. Co.), 165 B'way
Elvin, Albert G. (Asst. to V. P. Franklin Ry. Supply Co.), 30 Church
Emerson, Harrington, 30 Church
Ennis, J. B. (Des. & Est. Engr. Am. Loco. Co.), 30 Church
Evans, Quinby N., 281 Water
Faber, du Faur, A. (Consulting Engr. & Expt. in Pat. Causes), 132 Nassau
Faile, Edw. H. (Consulting), 68 William
Falkenan, Arthur (Consulting), 995 Madison av
Farwell, E. S. (Consulting), 309 B'way
Fedeler, Jno. H., Produce Ex.
Fehr, Louis A. (Firm of) (Consulting), Feldman, A. M., 120 Liberty 1931 B'way
Ferguson Bros. Engineering Co., 700 W.
Ferry, Chas. H., 50 Church 180th
Fleux, Ernest D. (Pres. & Treas. L. J. Wing Mfg. Co.), 90 West
Fillingham, Myles P., 50 Church
Fleming, Henry S. (Consulting), 1 B'way
Flint, Bertram P. (McIntosh, Seymour & Co.), 50 Church
Forstall, Alfred E. (Consulting), 58 Will-
Foster, Ernest H., 111 B'way iam
Fowler, Geo. I. (Consulting), 53 B'way
Fox, R. Edw. Jr., 50 Church
Francisco, Ferris L. (Ch. Engr. Am. Tobacco Co.), 111 5th av.
French, Lester G. (Editor Am. Soc. M. E.), 29 W. 39th
Frevert, H. F. (Prop. Frevert Mchy Co.). 18 Dey
Frohwein, Richd. W. (Pur. Agt. M. H. Treadwell Co.), 140 Cedar
Frooks, Engine Co., 225 Chrystie
Frooks. N., 161 Madison
Fry, Alfred B. (Ch. Engr. W. S. Treas. Service), U. S. Custom House bldg
Funk, Nelson E., 23 City Hall pl
Gantt, Henry L. (Consulting), 120 W 57th
Garage Equipment Co., 447 W 125th
Garvin, Geo. K. (Pres. Garvin Mch. Co.), Spring & Varick
Gately, Phillip J., 2191 3rd av
Gathmann, Emil A., 15 William
Gerhard, Wm. P. (Consulting Engr. for Hyd. & Sanitary Wks.). 33 Union sq
Gibson, Geo. H. (Adv. Engr.), Tribune
Gilbreth, Frank B., 60 B'way bldg
Gilman, Francis L., 15 Dey
Goetz, Fred'k A. (Dean Schools of Mines, Engrg. & Chem.), Columbia Univ.
Goss & Bryce, 76 William
Goubert, Aug. A. (Pres. Goubert Mfg. Co.), Greenbaum, Leo S., 151 E 71st 90 West
Greene, Isaac C., 29 W. 39th
Greene, Stanley K., 26 Cortlandt
Grimm, Paul H. (Consulting). 47 Beach
Guerber, Louis & Co., 50 Church

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Guiler Engineering Co., 359 Produce Ex.
Hacket, Geo. E., 90 West
Hackstaff, Fred'k W. (Mgr. Transmission Rope Dept. Am. Mfg. Co.), 65 Wall
Haden, Harry Y. (Pres. Turbine Equipment Co.), 30 Church
Hague, Chas. A. (Consulting), 52 B'way
Haines, H. S. (Consulting), 32 W 40th
Hall, Fred'k P., 50 Church
Hall Morris A., 231 W 39th
Hall, Willis E. (Consulting), 30 Pine
Halsey, F. A. (Editor Am. Mchst.), 505 Pearl
Hamilton, Jas. (Pat. Atty., Mech. & Elec. Expt.), 31 Nassau
Hamilton & Hausell, 29 B'way
Hamner, Chas. S., 25 Broad
Hanau, Rudolph L. (Consulting), 949 B'way
Hannah, Fred'k A., 346 B'way
Harding, A. (Wickes Boiler Co.), 90 West
Hardy, Geo. F., 309 B'way
Harrington, Sam'l H., 120 Liberty
Harris, Grenwille A. (Ch. Engr, Takata & Co.), 50 Church
Harrison, Burt S. (Consulting Engr. & Gen'l Mgr. Harrison Engrg. Co.), 42 E 23d
Hartness, R. B., 515 W. 124th
Hawthorne, Wyman G., 115 B'way
Hayward, Hy. S. Jr., 30 Church
Hayward, Sterling F. (Treas. & Gen'l Mgr. Connelly Ir. Sponge & Gov. Co.), 50 Church
Haywood, D. H. (Mem. of Firm Chapin & Haywood), 76 William
Hearne, Robt. J. (Secy. & Treas. Durbrow & Hearne Mfg. Co.),12 Wooster
Heimann, Albert, 17 John
Heller, H. Howard, 50 Church
Helmes, M. J. (Ch. Engr. & European Rep. European Brake Shoe Co.), 30 Church
Henderson, Geo. R. (Consulting), 20 W 34th
Hendry, W. F. (Asst. Supt. Western Elec. Co.), 463 West
Henning, Gus. C. (Consulting), 150 Nassau
Henshaw, Fred'k V. (Consulting), 90 Wall
Herbert, Fred'k D., 90 West
Herreshoff, J. B. (Consulting Engr. Gen'l Chemical Co.), 25 Broad
Herrick, Jas. A., 2 Rector
Herschmann, A. J., 277 Greenwich
Hershey. Martin E., 114 Liberty
Hicks, Jas. M., 19 Park pl
Higgins, Albert W. (Hill-Hupfel Engrg. Co.), 30 Church
Hill, Geo., 31 E 27th
Hill, H., 81 New
Hirschland, Franz H. (Mgr. Goldsmith-Detinning Co.), 60 Wall
Hirt, Louis J., 25 Broad
Hitchcock, Fred'k M., 80 Wash'n sq E
Hodgins, Geo. S. (Managing Editor Ry. & Loco. Engrg.), 114 Liberty
Hoermann, Alfred E., 30 Church
Hoexter, Sam'l J., 505 5th av
Hofmeyer, Geo. Aug. (Consulting), 207 W 24th
Holbrook. Percy (V. P. Rail Joint Co.), Holloway, H. L., 220 B'way
Holmes, Fred'k S., 2 Rector
Hooper, Geo. K. (Consulting, Power Plants, Appraisals. etc.), 165 B'way
Hopkins, Edw. S., 114 Liberty
Hopton, Lemuel R. (Supt. Enos Co.), 7th av & 16th
Horne. Convers F. (Contr. Engr. Sterling Blower & Pipe Mfg. Co.), 109 Liberty
Horsfall, H. A., 69 Wall
Horton, Jno. T. (Spec. in Equip. for Hoisting & Handling Material), 95 Liberty
Hough, David L. (Pres. United Engrg. & Constr. Co.)
Howell, Frank B. (Asst. Gen'l Mgr. Sales Am. Radiator Co.), 104 W 42d
Howell, Frank S. (Civ. & Mch. Engr.), Ellis Island
Howell, Jno. J. (Eastern Mgr. Power Boating), West St. bldg
Howells, Chas. (Supt. Watson-Stillman Co.), 50 Church
Hoxie, Geo. L. (Consulting), 50 Church
Hoxie, Wm. D. (V. P. Babcock & Wilcox Co.), 85 Liberty
Hudson, Wilbur G. (V. P. Guarantee Constr. Co.), 90 West
Hulbert. Wm. R. (Sales Mgr. Goldschmidt Thermit Co.), 90 West
Humphrey, Geo. S., 45 B'way
Hunt, Chas. W., 45 B'way
Hunt, Wm. F., 45 B'way
Hurd, Benj., 316 Hudson
Hussa, Theo. F., 136 Liberty
Hussey, Wm. E. (Mgr. N. Y. Office, Prov. Engrs. Wks.), 50 Church
Hutchinson, Cary (Consulting), 60 Wall
Hutton, Fred'k R., 257 W 86th
Hyde, Chas. E. (Marine Engr. & Naval Arch.), 940 Fox
Idell, Frank, 50 Church
Idell, Percy C. (Sales Dept. Babcock & Wilcox Co.), 85 Liberty
Ingham, Howard M., 225 5th av
Inter-Borough Engineering Co., 50 Church
Inter-Continental Engineering Co. (Industrial Eng. & Contrs.), 126 Liberty
Jacobus, D. S., 85 Liberty
Jacobus, Robt. F., 111 5th ave
Jacoby, Henry E., 143 Liberty
Jenkins, Matthew C., Hotel Woodward
Jenks, L. Howard, 39 Cortlandt
John, Griffith (Consulting Engr. Otis Elev. Co.), 17 Battery pl
Jones, Frank (Pres. W. A. Underhill Brick Co.), 103 Park av
Jones, Walter J. (Consulting), 30 Church
Johnson, David C., 22 William
Johnson-Francis Co., 38 Broad
Johnston, Jno. P., 32 W 40th
Jowett, J. H. (Gen'l Sales Mgr. Ingersoll-Rand Co.), 11 B'way
Jurgensen, Jess C., 29 W 97th
Karkon, Hy. C., 39 Cortlandt
Katzenstein, Martin L. (Mgr. Marine Dept. Internat'l Steam Pump Co.), 115 B'way
Keith, Thos. M. (Gen'l Mgr. Link Chain Belt Co.), 50 Church
Keller, Jos F. (Gen'l Mgr. of Wks. Keller Mech. Engrg. Co.), 570 W B'way
Kelly, Edwin F., 1267 Boston rd
Kennedy, J. E. Eng. Co., 120 Liberty
Kennedy, J. J. (Consulting), 52 B'way
Kent, Henry R. (V. P. Westinghouse, Church, Kerr & Co.), 10 Bridge
Kent, Robt. T., 220 B'way
Kent, Wm., 90 West
Kenyon, Wm. H. (Member of Firm Kenyon & Kenyon), 49 Wall
Kerr, Walter C. (Pres. Westinghouse, Church, Kerr & Co.), 10 Bridge
Kidde, Walter, 140 Cedar
King, Chas. D., 95 Liberty
King, Jno. W., 13 Park row
Kinkead, Jas. A. (Res. Sales Mgr. Parkersburg Iron Co.), Singer bldg
Kirchhoff, Chas., 422 West End av
Kirk, Robt. H. (Howland-Kirk Co.)
Koenig, Adolph G. (Mem. of Firm Mortensen & Co. Engrs. & Contrs.), 40 W 24th
Klein, Rulof, 150 Nassau
Kodjbanoff, Basil G., 27 Thames
Krug, G., 464 E 141st
Laudau & Golden. 1779 B'way
Lane, Julius S., 50 Church
Lang, Chas. (N. Y. Mgr. C. H. Wheeler Mfg. Co.), 114 Liberty
Lape, Willard E. (Pres. Lape Constr. Co.),
Lapham, Jno. G., 136 Liberty 90 West
Lavalette Co., 225 W 57th
Lenher Engineering Co., 149 B'way
Lemoine, L. R. (Gen'l Mgr. N. J. Zinc Co.), 55 Wall
Lent, Leon B. (N. Y. Mgr. Riverside Engrg Co.), 50 Church
Leserman, Philip, 1123 B'way
Lieb, Jno. W. Jr. (3rd V. P. & Assoc. Gen'l Mgr. N. Y. Edison Co.), 55 Duane
Lillibridge, Ray D., 5 B'way
Liner, Joseph I., 27 Broad
Lipps, Henry Jr. (Contr. Engr.), 683 Rose-
Litz, Earl E., 60 Wall wood, W. B.
Livingston, Robt. R. (Consulting & Constr. Engr.), 2 Rector
Lockwood, Jas. F. (Mgr. Security Elev. Safety Co.), 126 W 18th
Longenecker, Chas. (Pres. Longenecker & Co., 150 Nassau
Lorsch, Edwin S., 37 Maiden la
Loud, Hy. S. (Ch. Engr. U. S. Wood Preserving Co.). 165 B'way
Low. Fred R. (Editor, Power), 505 Pearl
Loyd, Jno., 558 Water & Passaic, N. J.
Lucke, Chas. E. (Prof. Mech. Engrg, Columbia Univ.)
Ludeman, Edwin H. (Steam Engr.). 165 B'way
Lyle, Joel I. (Mgr. Carrier Air Conditioning Co.), 39 Cortlandt
Lyne, Lewis F., 39 Cortlandt
McAdam, J. E., E 126th
McClellan, Wm. (V. P. Champion McClellan Co.), 90 West
McCrary, P. R., 426 E 23d
MacDonald, Jas. V., 29 W 34th
Mackenzie, Quarrier & Ferguson (Inc), 114 Liberty
Macon, Wm. W. (Egrg. Editor, The Metal Worker), 14 Park pl
McKee, Jos. J. (Consulting Engr. Jones & McKee), Singer bldg
McKiever, Wm. H., 45 E 17th
McKinney, Robt. (Pres. Niles-Bement-Pond Co.), 111 B'way
McLean, Embury, 30 Church
McManus, Chas. E. Co., 136 Liberty
McMillan, Chas. M. (Consulting Engr. King Edward Hotel), 145 W 47th
McMillin, Emerson (Pres. Am. Lgt. & Traction Co.), 40 Wall
McNaughton, Jas. (V. P. Am. Loco. Co.), 30 Church
McPherson, Fred'k, 515 Amsterdam av
MacSorley Co., 44 Manhattan
Madden, Hugh F., 200 W 57th
Manhattan Engineering Co., 97 Water
Mantle & Co., 1907 Park av
Manton, Arthur W., 1133 B'way
Marble, Harry M. (Solicitor of Patents), Marburg, Louis Chas., 59 Wall 141 Bway
Marks, Harry J., 170 B'way
Marshall, Ernest W. (Counselor-at-Law, Pat. Expt.), 165 B'way
Marshall, Waldo H. (Pres. Am. Loco. Co.), 30 Church
Mason, Dan'l A. (Supt. N. Y. Tribune bldg), 154 Nassau
Massey Geo. B., 50 Church
Materne Mfg. Co., 126 Liberty
Matthews, Fred E. (Consulting Refrig. Engr.), 90 West
Matty, Leo. J. (Pat. Lawyer), 141 B'way
Mayer, Fred'k J., 30 Church
Meech, A. H., 346 B'way
Meier, E. D. (Pres. & Ch. Engr. Heine Safety Boiler Co.). 11 B'way
Meier, Konrad (Htg. & Ventilating Engr.), 122 E 25th
Merriman, Henry P., 243 Waverly pl
Merritt, Frank W., 1777 B'way
Merritt, Lucius R., 26 Cortlandt
Mersereau, Theo. T., 78 Broad
Mershon. Ralph D. (Consulting), 60 Wall
Meyer, Hy. C. Jr., 1 Madison av
Michel, Arthur E. (Adv. Engr.), 1572 Hud. Terminal bldg
Miller, Arthur B., 90 West
Miller, Fred J., 32 W 40th
Miller, Geo. J., 41 B'way
Miller, Spencer (Ch. Engr. Cableway Dept. Lidgerwood Mfg. Co.). 96 Liberty
Mitchell, Albert E. (V. P. Wyckoff Pipe & Creosoting Co.) (Inc.), 50 Church
Mole, Harvey E. (Lenz & Mole), 71 B'way
Moore, Chas. A. (Pres. Manning, Maxwell & Moore, Inc.), 85 Liberty
Moore, D., 1 B'way
Moran, Dan'l E. (V. P. & Dir. Foundation Co.), 115 B'way
Morford, Thos. E. (Mgr. N. Y. Office Am. Steam Pump Co.), 17 Battery pl
Morgan, Llewellyn (Mech. Engr. Dobbie Fdy. & Mch. Co.), 82 Warren
Morrison. Clarke J., 62 E. 19th
Morse, C. M. (Consulting), 5 Beekman
Mullaney, Jno. (Pres. Ideal Opening Die Co.), 24 West
Muller, T. H., 72 W 131st
Mumford, Edgar H. (V. P. & Gen'l Mgr. Mumford Molding Mch. Co.). 30 Church, & Phila, Pa.
Murphy, J. Fremont, 30 Church
Murphy, Benj S. (Mech. Inspr. Hudson & Manhattan R. R.). 30 Church
Murray, Thos. Edw. (2nd V. P. & Gen'l Mgr. N. Y. Edison Co.). 55 Duane
Muther, Ellis F. (Indust. Engr. East. Sales Mgr. Gisholt Mch. Co.). 50 Church
Myers, David M. (Consulting), 17 Battery pl
Nathan Alfred (Pres. Nathan Mfg. Co.), 85 Liberty
Neff, Elmer H. (N. Y. Mgr. Brown & Sharpe Mfg. Co.), 20 Vesey
Neilson, John (Consulting), 311 Madison av
Nelson. Jas. W., 82 Broome
Newell, Chas. J. (Mech. Engr. Federal Leather Co.), 47 W 42d
Newton, Earl R., 2 Rector
Nichols, Chas. H. (Consulting). 42 E 23d
Nichols, Wm. W. (V. P. & Secy. Allis-Chalmers Co.), 71 B'way
Noble, Alfred. 7 E 42d
Norris, Wm. H. Jr. (Engr. W. R. Grace & Co.)
Noyes, H. L., 79 Wall
Ohmes, Arthur K., 87 Nassau
Oldham Engineering Co., 50 Church

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Oliphant, J. Norris, 20 Broad
O'Neil, Fred'k W. (N. Y. Mgr. Nordberg Mfg. Co.), 42 B'way
Orr, Alex M. Jr., 52 B'way
Oviatt, David B., 172 W 109th
Palmedo, D. Petri, 280 B'way
Palmer, Cortlandt E. (Consulting, Min-Engr.), 71 B'way
Parson, Mfg. Co., 149 B'way
Parsons, W. Everett (Consulting), 12 **Parsons, Willard P., 51 Wall** Bridge
Parker, Levin S. (Mech. Engr. Atlantic Gulf & Pacific Co.), Park Row bldg
**Pattison, Frank A. (Consulting), Broadway, 5th av & 23d**
Payne, Nathan B. (Mgr. Gov. Dept. Manning, Maxwell & Moore), 85 Liberty
**Payson, T. Elliott (Supt. Edengraph Mfg. Co.), 135 W 3d**
**Pearse, Kingston & Browne, 35 Wall**
**Pearson, F. S. (Consulting), 25 Broad**
**Peck, Chas. B. (Mgr. B. F. Sturtevant Co.), 50 Church**
**Pellissier, Geo. E. (Supt. Goldschmidt Thermit Co.), 90 West**
**Pendleton, Frank E. (Ch. Engr. N. Y. Steam Co.), 140 Cedar**
**Perry, Sam'l B. (Ins. Engr.), 72 William**
**Perry, Wm. A., 1 Nassau**
**Peterelt, A. H. & Co., 81 Fulton**
**Petri-Palmedo, David, 280 Broadway**
**Phelps, Chas. C. (Editor Steam), 114 Liberty**
**Phillips, Ellis L. (Consulting), 50 Church**
**Pierce, Walter L. (Sec'y & Gen'l Mgr. Lidgerwood Mfg. Co.), 96 Liberty**
**Pigott, Stephen J., 2 Rector**
**Place, Clyde R., 314 Madison av**
**Place, James F., 257 Broadway**
**Platt, Jno. (Pres. Jno. Platt & Co.), 97 Plume, Frank C., 42 Broadway Cedar**
**Pollak, Chas. P. (East. Sales Agt. Wickes Boiler Co.), West St. bldg**
**Pomeroy, L. R. (Asst. to Pres. Safety Car H. & L. Co.), 2 Rector**
**Porter, H. H., 52 William**
**Porter, Holbrook (Consulting Indus. Engr.), 1 Madison av**
**Powell, Marcus (Sales Mgr. Crosby Steam Gauge & Valve Co.), 16 Dey**
**Pratt, Chas. R., 1123 Broadway**
**Premier Engineering & Mfg. Co., 25 Broad**
**Prescott, Sydney I., 111 5th av**
**Pressinger, W. P., 1 W 34th**
**Primrose, Jno. (Ch. Engr. Power Spec. Co.), 111 Broadway**
**Proat, Arthur B., Jr. (Sales Engr. Robins Conveying Belt Co.), 30 Church**
**Prosser, Thos., 15 Gold**
**Pryce, E. Hugh, 136 Liberty**
**Pryor, Robt. W., Jr. (Sales Engr. Kolthan & Pryor), 39 Cortlandt**
**Quimby, Wm. E. (Pres. Wm. E. Quimby, Inc.), 3 W 29th**
**Raque, Philip E. (Consulting), 15 B'way**
**Rautenstrauch, Walter (Prof. Mech. Engrg. Columbia Univ.)**
**Reed, Wm. E., 71 Wall**
**Reeve, Sidney A. (Consulting Engr. Rotary Meter Co.), 280 B'way & New Haven, Conn.)**
**Reid, Robt. C. (Hewitt Motor Co.), 10 E**
**Reis, Leslie R., 1123 Broadway 31st**
**Rendall, Geo. F. (Consulting, Mech'l & Mining), 120 Liberty**
**Remvich, Edw. S., 19 Park pl**
**Rhodes Improved Metallic Packing Co., 149 Broadway**
**Rice, Calvin V. (Consulting), 29 W 39th**
**Richards, Chas. R. (Dir. Cooper Union)**
**Richards, Francis H., 9 Murray**
**Richardson, Levi (Ch. Draftsman, Lehner Engrg. Co.), 149 B'way**
**Richardson, Thos. (Ch. Draftsman W. S. Barstow & Co.), 50 Pine**
**Ricker, Wm. W. (Sec'y & Treas. Guar. Constr. Co.), 90 West**
**Robinson, Dubugs, 1777 Broadway**
**Robinson, Frank (Treas. W. H. Foster Co.), 50 Church**
**Robinson, J. M. (Pres. Crex Carpet Co.), 377 B'way (Consulting)**
**Roelker, Hugo B., 41 Maiden lane**
**Rogers, Fred. E. (Editor Mchy. & Ry. Mchy.), 49 Lafayette**
**Roney, Wm. R. (Pres. Guanajuato Development Co.), 40 Wall**
**Rose, Wm. H., 325 W 93d**
**Ross, Chas. E. (Consulting), 52 Beaver**
**Royse, Dan'l (Asst. to Dir. of Purchases, Union Pac. R. R.), 120 B'way**
**RUGGLES-COLES ENGINEERING** Co., 48 Church. (See adv. index, end of book)
Ruggles, Horace F., 106 Wall
**Rulliancich, Jno. J. O. R., 15 E 59th**
**Rutherford, Eugene W. (W. S. Rubber Co.), 42 B'way**
**Ryan, Patrick F., 132 Nassau**
**Sanborn, Francis N., 29 Wall**
**Sanford, Hy., 149 Broadway**
**Saunders, Wm. L. (Pres. Ingersoll-Rand Co.), 11 B'way**
Sawtelle, E. M. (Consulting), 5 Beekman
**Schlater, Noah W., 30 Church**
**Schlesinger, H. L., 30 Church**
**Schnuck, Edw. F. (Production Engr.), 600**
**Schoel, Julian, 126 Liberty W 43d**
Schwarz, Geo., 123 Liberty
Searing, Hudson R., 204 W 132d
**Sears, Richard H. (Gen'l Real Estate), 22 E 34th**
**See, Alonzo B. (Owner A. B. See Elevator**
**Scribner, Chas. W., 39 Cortlandt Co.)**
**Seelig, Chas. F., 888 Forest av**
**Sergeant, Chas. H., 525 W 138th**
**Serrell, Harold, 87 Nassau**
**Serrell, Jno. A., 200 5th av**
Serrell, Lemuel W., 29 Broadway
**Serrell & Schenck, 200 5th**
**Shaw, Chas. H., 141 Broadway**
**Shedlock, Alfred, 45 Broadway**
**Shiebler, Marvin (Consulting), 30 Church**
**Shields, Geo. R. (Engr. Impro. Equip. Co.),**
Shore, A. F., 557 W 22d 60 Wall
**Sinclair, Angus (Editor & Pub.), 114**
**Skerrett, Robt. G., 15 William Liberty**
**Slade, Arthur J., Times bldg**
**Slater, F. R. (Consulting), 100 B'way**
**Slauson, Harold W. (Asso. Editor, Recreation), 24 W 39th**
Smith, F. L. & Co., 50 Church
Smith, A. Parker (Lawyer Counsel in Pat. Cases), 2 Rector
Smith, Aug. 149 B'way
Smith, Chas. F. (Consulting), 260 W B'way
Smith, J. W. (Ch. Engr. Bd. of Water Supply, City of N. Y.), 299 B'way
Smith, Jesse M., 220 B'way
Smith, Julian C. (Pres. & Mgr. Vacuum Specialty Co.), 1st av. & 36th
Sarzano, Julio F. (Consulting), 52 B'way
Sparrow, Jno. P. (Ch. Engr. N. Y. Edison Co.), 55 Duane
Spilsbury, Edmund G. (Consulting), 45 B'way
Spiro, Chas. (Pres. & Gen'l Mgr. Columbia Typewriter Mfg. Co.), 39 W 116th
Stadelman, Frederic, 50 Church
Stangland, B. F., 45 Fulton
Stanton, Frank McM. (Mining), 208 5th av., & Atlantic Mine, Mich.
Stanton, F. A., 50 Church
Starr Engrg. Co., 50 Church
Stebbins, Theo., 14 Church
Steel, Wesley (Consulting), 50 Church
Stehlin, Jos. (Pres. Stehlin-Miller-Henes Co.), Terminal bldg, 41st & Parke av
Stevens Bros., 149 B'way
Stevens, Wm. (V. P. Conveying Mchy. Co.), 120 Liberty
Stillman, F. H. (Pres. Watson-Stillman Co.), 50 Church
Stillman, Oscar B., 76 William
Stirling, Allan (Treas. Maxim Co.), 130
Stone, Wilbur M., 13 Park row Fulton
Stott, Henry G. (Supt. M. P. I. R. T. Co.),
Stranahan, O. A., 32 W 40th 600 W 59th
Stratton, E. P. (Consulting Engr. & Naval Arch.), 66 Beaver
Street, Edgar L. (Consulting), 43 Cedar
Sullivan, Isaac M., 150 Nassau
Suplee, Henry H. (Pres. Cassier Magazine Co.), 12 W 31st
Suter, Geo. A., 112 Wooster
Sutton, Frank (Consulting), 91 Wall
Swan, Jno. J., 1 W 34th
Swenson, B. V. (Secy. & Treas. Am. St. & Inter. Ry. Asso.), 29 W 39th
Symonds, Geo. P. (Ch. Engr. Dept. Alberger Condenser Co.), 95 Liberty
Taggar, Ralph C., 63 Park Row
Tailor, Geo. W. K., 104 John
Tait, Godfrey M., 2 Rector
Taylor, Frank H., 995 Madison av
Taylor, Jno. T. (Supt), 156 5th
Taylor, Wyatt W. (Consulting), 2 Rector
Ten Broeck, Floyd D. (Consulting), 200 5th
Thomson, J. Stewart, 42 E 23d av
Thomson, John (Pres. J. Thomson Press Co.), 253 B'way
Thomson, T. K. (Consulting), 50 Church
Thompson, Wm., Havemeyer av c Ellis av
Toquet, B. Louis, 1 Madison av
Thorpe, Fred'k P. (Power & Mining Mchy. Co.), 115 B'way
Thresher, Alfred A. (Consulting), 29 B'way
Timmis, Walter S. (Consulting), 150 Nassau
Tischner, Chas. F. (Pat. Atty.), 141 B'way
Torrance, Henry Jr. (Mgr. Hud. Terminal bldg.), 50 Church
Towl, F. M. (Consulting), 26 B'way
Towne, Thos. (East Sales Agt. Union Drawn Steel Co.), Wash & Canal
Tracy, Jas. (Consulting), 116 W 39th
Trautschold R. (Consulting), 126 Liberty
Treadwell, M. H. Co., 140 Cedar
Truell, Karl O. (Colloseus Cement Co.), 15
Tubbs, Albert W., 11 B'way Nassau
Tucker, Benj W. (Consulting & Constructing, Automatic Machy, etc.), 143 Liberty
Tucker, Edwin D., 189 6th av
Turner, Jno. & Son (Consulting), 154 Nassau
Tuska, Gustave R. (Consulting), 68 William
Upson, Maxwell M. (Secy. & Ch. Engr. & **Gen'l Mgr. Raymond Concrete Pile Co.),**
Vanderbilt, Cornelius, 30 Pine 140 Cedar
Van Derhoef, Geo. M. (East. Cons. Engr. Dodge Mfg. Co.), Cedar & Wash'n
Van Goeben, Carl, 140 Cedar
Van Vleck, John, 100 B'way
Van Winkle, Edw. (Consulting Pat. Engr.), 90 West
Veit, Rich'd (Mgr. Marine Dept. Standard Oil Co.), 26 B'way
Veitch, Thos. (Consulting Automobile Engr.), 1928 B'way
Volz, Wm. E., 126 Liberty
Vickess, Sam'l (Consulting), 107 Front
Vincent, Arthur S. (Consulting Engr. & Supt. Belnord Apts.), 86th & B'way
**Voorhees, Gardner T. (Refrig. Engr.), 32 W 40th**
Waitt, Arthur M. (Consulting), 165 B'way
Waldo, Leonard (Consulting), 49 Wall
Waldron, Fred'k A. (Industrial Engr.), 37 Wall
Wales, Chas. M. (Agt. Cleveland City Forge & Iron Co.), 11 B'way
Walker, Robt. L., 13 Park Row
Wallace, Jos. H. (Industrial Engr.), Temple Court bldg
Walsh, David J., 315 Madison
Wanstall, Wm., 74 Cortlandt
Ward, Frank D., 17 Battery pl
Waterman, Frank N., 100 B'way
Watlington, Ernest H., 50 Church
Wells, J. Leland (Pres. Wells & Newton Co.), 292 Ave B
Wells, Jas. H. (Mem. Firm, Clinton & Russell, Archs.), 32 Nassau
Wells & Newton Co., 292 Ave B
**Westinghouse, H. H. (V. P. Westinghouse** Air Brake Co.). 165 B'way
Weston Engineering Co., 37 Wall
Wetmore & Landsing, 13 Park Row
Wheeler, W. T., 286 Greenwich
Whiner, Sam'l (Consulting), 95 Liberty
White, Merton G. (Mgr. Sales Dept. A. D. Granger Co.), 90 West
White, W. A., 601 Washington
Whitehead, A. C., 2677 Bainbridge av
Whitney, Orrin R., 39 Cortlandt
Wilder, Clifton W. (Asst. Elec. Engr. Pub. Service Commission), 154 Nassau
Wiley, Wm. H., 45 E 19th
Williams, Franklin (Engrg. Specialties), 39 Cortlandt
Wilner, E. R. (Gen'l Mgr. Manhattan Screw & Stamping Wks.), West End av & 67th
Wilson, Jacob D. (Pres. Gen'l Mgr. & Mech. Engr. Am. Elev. Co.). 115 Cedar
Wilson, Lester G. (Secy. & Mech. Engr. Jas. S. Wilson Mfg. Co.), 3 W 29th
Winship, W. E., 179th & Ft. Wash'n av
Wood, Allen G., 140 Liberty
**Wood, Henry S. (Consulting), Park row bldg**
Woodward, Robt. S. Jr. (Consulting), 2 Wall
Woodwell, Julian E. (Consulting), Term. bldg., Park av. & 41st
Woolson, Orosco C. (Spec. Boiler Furnaces),
Wright, Edw., 21 Park row 26 Cortlandt
Wright, Jas. K. (Consulting), 136 Liberty
Wright, Roydon V. (Managing Editor, Am. Engr. & R. R. Journal), 140 Nassau
Yereance, Wm. B. (Consulting), 128 B'way
York, H. W. (Cons. Engr. Am. Smelting & Refin. Co.), 165 B'way

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Young, Walter D. (Consulting & Elec.), 237 Fulton
Young, Wm. R., 26 Cortlandt
Zehnder, Chas. H. (Pres. Austen Coal & Coke Co.), 140 Cedar

### Borough of Queens.

ASTORIA—Carpenter, Harold E. (Supt. of Constr. Astoria Lt. Ht. & Pwr. Co.)
COLLEGE POINT—Martens, Ferdinand
FLUSHING—Bogert, Jno. L.
Doughty, Wm. F.
Sabin, Alvah H. (Chemist)
Wilmerding, Chas. H.
JAMAICA—Hart, Fred'k L.
LONG ISLAND CITY—Just, Geo. A. (Cons. & Pres. Geo. & Just Co.)
Meyers, Willard F., 342 Vernon
MASPETH—Merrill, Geo. H. (Secy. Merrill Bros).

### Borough of Richmond.

TOMPKINSVILLE—Pentz, Albert D.
WEST NEW BRIGHTON—Larkin, Wm. H.
Waters, Geo. H.

**(End of New York City)**

NIAGARA FALLS—Egbert, Chas. Coggill (Consulting)
Gobeille, Jos. Leon (Gen'l Mgr. & Treas. Gobeille-Harris Pattern Co.)
Harper, Jno. L. (Ch. Engr. Niagara Falls Hyd. Power & Mfg. Co.)
Wilson, Hugh H. (Supt. Ontario Power Co. of Niagara Falls)
NORTH TONAWANDA—Parsons, Wm. N. (Ch. Draftsman, Buffalo Bolt Co.)
Spillman, Edwd. O.
NYACK—Avery, Jno. S. (Gen'l Mgr. Rockland Lgt. & Power Co.)
OSSINING—Wilder, Stuart (V. P. & Gen'l Mgr. Northern Westchester Ltg. Co.)
OSWEGO—Brock, Walter I.
Gray, Neil Jr. (Prop. Oswego Mch. Wks.)
PAINTED POST — Wickersham, Nathan R. (Supt. Ingersoll-Rand Co.)
PORT CHESTER—Boerner, Emile C. (Consulting Mech. Engr. Russell, Burdsall & Ward Bolt & Nut Co.)
Burdsall, Ellwood, Secy. & Designing Engr. Russell, Burdsall & Ward Bolt & Nut Co.)
PORT WASHINGTON—Connett, Lyndon R. (Pres. Crescent Sand & Gravel Co.)
POTSDAM—Aldrich, Wm. S. (Dir. Thomas S. Clarkson Mem. Sch. of Tech.)
Towle, Wm. Mason (Supt. of Shops, Clarkson Mem. Sch. of Tch.)
POUGHKEEPSIE—Hart, Fred'k (Consulting)
Miller, Theo. H. (Supt. de Laval Separator Wks.)
RIVERHEAD—Edwards, J. Irving
ROCHESTER—Alexander, Chas. A., Bldrs. Ex.
Ashley, Edw. G., 714 University av
Burland & Gould (Consulting), Granite bldg
Cochrane, Robt. B. (Consulting), Ger. Insurance bldg
Cook, E. J. (V. P. & Gen'l Mgr. N. Y. State Rys.), 267 State
Crocker, Allen S. (Consulting), 55 Plymouth av
Duerner, Henry L. Jr., 78 Tacoma
Gleason, Wm. (Pres. Gleason Wks.)
Hanford & Barkley (Consulting), Ger. Ins. bldg
Hawkins, Edgar M. (Gen'l Mgr. M. D. Knowlton Co., Inc.)
Hogle, Milton W., 128 Linden
Jones, Albert (Supt. Pfaudler Co.), Cutler bldg
Knowlton, Fred'k (V. P. & Secy. M. D. Knowlton Co.)
Lovejoy, Frank Wm. (Gen'l Mgr. Mfg. Depts. Eastman Kodak Co.)
Morse, Wm. F., 224 Mill
Morris, Arthur, E. & B. bldg
Noyes, Henry T. Jr. (Treas. Ger. Am. Button Co.)
Palmer, Virgil M. (Ch. Engr. Selden Motor Vehicle Co.)
Parker, Jno. C. (Mech. & Elec. Engr. Rochester Ry. & Lt. Co.)
Peck, Cassius C. (Consulting), E. & B. bldg
Svensson, Johan A. (Ingle Mch. Co.)
Symington, E. H. (Wks. Sales Mgr. T. H. Symington Co.)
Witham, Myron E., Powers bldg
SACKETTS HARBOR—Rankin, Thos. L.
SANDY HILL—Moody, H. A. (Industrial Engr.)
SCHENECTADY—Burchard, A. W., 21 Front
Capp, Jno. Allen (Ch. of Test. Lab. Gen'l Elec. Co.)
Clark, J. H. (Consult. Engr. Gen'l Elec. Co.)
Cole, J. (Consulting Engr. Am. Loco. Co.)
Dalton, Wm. (Ch. Engr. Am. Loco Co.)
Ely, W. G. (Supt. Const. Gen'l Elec. Co.)
Ingersoll, Geo. T. (Supt. Water Wks.), 447 Franklin
Kruesi, Aug. H. (Designing Engr. in Charge Constr. Engrg. Gen'l Elec. Co.)
Landreth, Olin H. (Prof. Engrg. Union College & Cons. Engr.)
Leeper, Ralph W., 304 Clinton
Mellin, Carl J. (Consulting Engr. Am. Loco. Co.)
Reid, Wm. L. (Mgr. Am. Loco. Co.)
Riddell, Jno. (Mech. Supt. Gen'l Elec. Co., Schenectady Wks.)
Schenck, Leon H., 1379 Union
Steinmetz, Chas. P. (Consulting Engr. Elec. Co. & Prof. Elec. Engrg. Union Univ.)
SENECA FALLS—Gould, Norman J. (Pres. Goulds Mfg. Co.)
Pomeroy, Wm. D. (Gen'l Supt. Goulds Mfg. Co.)
SKANEATELES—Gray, Wm. E. (Secy. Skaneateles Paper Co.)
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Power, Fred'k M.
SPUYTEN DUYVIL—Morat, Jacques
SYRACUSE—Bates, Edward P., 228 W Water
Blauvelt, Wm. H. (Consulting Engr. Sement-Solvay Co.)
Briggs, Arthur J. (Engrg. Mgr. Smith Premier Typewriter Co.)
Brown, Alex. T. (Pres. Smith Premier Typewriter Co.)
Chambers, F. G. (Supt. Straight Line Eng. Co.)
Cogswell, Wm. B. (V. P. & Managing Dir. Solvay-Process Co.)
Comly, Geo. N., 1816 W Genesee
Cotton, Geo. G. (Supt. of Constr. Solvay Process Co.)
Diefendorf, Willis H. (Ch. Engr. New Process Raw Hide Co.)
Guelbaum, David, P. O. Box 293
Hopton, W. E. (Pur. Dept. Solvay Process Co.)
Ingalls, Fred D. (Consulting), Rosenbloom
Lipe, C. E. (Est.), 208 S Geddes bldg
Lothrop, Marcus T. (Halcomb Steel Co.)
McFarland, A. R. (Wks. Mgr. Solvay Process Co.)
MacCorquodale, Peter H. (Asst. Supt. Church & Wwight Co.), 1416 Willis av
Mallory, Chas. K. (Engr. of Constr. & Maintenance, Solvay Process Co.)
Moore, E. T. (Elec-Mech.), University bldg cuse University)
Morrison & Farrington (Inc.), Dillayr bldg
Pierce, Edw. L. (V. P. Semet-Solvay Co.)
Pillmore, Fred'k, 257 Bryant av
Pomeroy, Harry D., Dillayr bldg
Serrell, Wm. C., Box 680
Shepard, Geo. H. (Dean & Prof. Mech. Engrg. College of Applied Science Syracuse University)
Stearns, Albert (Supt. Church & Dwight Co.), 1416 Willis av
Storer, S. B. (Elec-Mech.), University bldg
Sweet, J. E. (Pres. Straight Line Eng. Co.)
Trump, Edw. N. (Gen'l Mgr. & Ch. Engr. Solvay-Process Co.)
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TARRYTOWN—Blumgardt, Isaac E., Hotel Florence
TROY—Burden, J. A. (Pres. Burden Iron Co.)
Cluett, Albert E. (Mech. Engr. Cluett-Peabody & Co.)
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Foster, C. H. (Treas. Tolhurst Mch. Wks.)
Greene, Arthur M. Jr. (Prof. Mech. Engrg. Rensselaer Poly Inst.)
Hammett, Hiram G., 476 8th
Peckham, Wm. M. (Managing Partner. Manning & Peckham Paper Mills)
Ricketts, Palmer C. (Prof. Mech. Rens. Poly Inst.)
Van Dervort, Adrian O. (Supt. Hammett Mch Wks.)
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UTICA—Babcock, Stephen E., Mann bldg
Camp, G. E. (Supt. International Heater Co.)
Foster, Wm. B. (Supt. & Ch. Engr. Foster Bros. Mfg. Co.)
Gumph & Hitchcock (Consulting), Mann bldg
Kellemen, H. F. (Gen'l Mgr. Utica Drop Forge & Tool Co., 800 Whitesboro
Kirley, Wm. W., 147 3rd
Munson, Edmund G. (Supt. & Secy. Munson Bros. Co.)
Stone, Wm. G. & Son, Mann bldg
Wisewell, Francis H. Jr., 22 Broad
WAPPINGERS FALLS—Fish, Chas. H. (Gen'l Mgr. Garner Print Wks. & Bleachery)
WATERFORD—Knickerbocker, Jno. (Pres. Eddy Valve Co.)
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Karr, Ernest M. (Bagley & Sewall Co.)
Kinne, Clarence E. (Mech. Engr. Bagley Sewall Co.)
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WOLDEN—Bevin, Sydney (Asst. Fdry. Foreman Mfr. Rider & Ericsson Hot Air Pumps)
YONKERS—Davis, Jos. P., 332 Palisade av
Freeman, J. Porter (Const. Engr. Alex. Smith & Sons)
Odell, W. H. (Mech. Engr. Specialty Economic Generation & Application of Steam)

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Whitted, Thos. B. (Pres. Whitted & White, Inc.)
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PITTSBORO—Peek, Geo. M.
RALEIGH—Andrews, Wm. J.
WEST RALEIGH—Ellis, Weldon T. (Asst. Prof. Mech. Engrg. N. C. College of Agri. & Mechanical Arts)
Statterfield, Howard E. (Prof. Mech. Engrg. N. C. College of Agri. & Mechanical Arts)

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Baldwin, Ward (Consulting), Comm. Tribune bldg
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Bryan, D. B. (Engr. Ohio Mechanics Inst.)
Chapman, Jas. L. (Consulting), 2d Natl.
Conway, M. R., 2507 Beekman Bk. bldg
Darrow Engineering Co., 1st Nat'l Bk. bldg
Doane, Dr. Wm. H., 4th Natl. Bk. bldg
Du Brul, Ernest F. (V. P. Miller, Du Brul & Peters Mfg. Co.)
Du Brul, N. (Pres. Miller, Du Brul & Peters Mfg. Co.)
Duhme, Jno. H., 1039 W 6th
Duwelius, A. L., 206 E 5th
Egan, Thos. P. (Pres. J. A. Fay & Egan)
Elliott, Thos. (Ch. Engrg. Traction bldg.)
Fahenstock, C. M. (Consulting), Lyric Theatre bldg
Faig, Jno. T. (Prof. Mech. Engrg. Univ. of Cinn.)
Fox, C. H. (V. P. Ahrens Fire Engine Co.)
Franz, Walter G. (Consulting), Union Trust bldg

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Mill, Anton, 96 McMillan
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Morrison, Wm., 4th Nat'l Bk. bldg Co.)
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Norris, Henry McCoy (Supt. Engr. & Wks. Mgr. Bickford Drill & Tool Co.)
Reliance Engineering Co. (Elec'l-Mech'l), 4th Nat'l Bk. bldg
Ritter, Henry (Supt. Lunkenheimer Co.)
Rugg, J. K. (Elec'l-Mech'l), Comm. Tribune bldg
Schlemmer, Edmund (Supt. Htg., Ventilating & Power Work Oliver Schlemmer Co.)
Schultz Patent Office, 5th & Walnut
Schoenberger, Gerhard G., St. Paul bldg
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Swanberg, F. L. (Secy. D. T. Williams Valve Co.)
Thullen, L. H. (Ch. Elec. Engr. Triumph Elec. Co.)

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Babcock & Penton, Perry-Payne bldg
Ballard, Fred'k W. (Mgr. Engrg. & Constr. Dept. Sherwin-Williams Co.)
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Bates, E. P. Eng. Co., Beckman bldg
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Brown, Wm. H., Schofield bldg
Browning, Victor R. (V. P. Browning Brush, Chas. F., The Arcade Engrg. Co.)
Butler, N. C., O'Brien bldg
Carpenter, A. H. (V. P. Acme Mch. Co.)
Carter, Wm. J., Rockefeller bldg
Cheney, W. L. (Sales Mgr. Lucas Mch. Tool Co.)
Clarage, Edson D. (Mgr. Columbia Tool Steel Co.)
Cleveland Eng. Co., New England bldg
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Comstock, C. W. (Consulting), Caxton bldg
Cowles, Wm. B. (V. P. & Tres. "Long Arm" System Co.)
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Crane, Edw. S., 3203 W 14th
Cromwell, J. C., 1404 M. E. bldg
Drayo, Doyle & Co., Citizens bldg
Dunbar, Jas. H. (Mech. Engr. Grasselli Chem. Co.)
Dusinberre. Geo. B., Electric bldg
Eisele & Juengling, Century bldg
Fott, Andrew W., 4100 St. Clair
Fox, Jno. H. (Consulting), Rockefeller bldg
Frazier & Fox, Rockefeller bldg
Fuel Engineering Co., Williamson bldg
Gaehr, David, Rockefeller bldg
General Engineering Co., Electric bldg
Hale, Herbert C. (Contr. & Designing Engr.), Schofield bldg
Hale & Duncan, Schofield bldg
**Hand, S. A. (Supt. Chandler & Price Co.)**
**Hanlon, William B.,** Electric bldg
Hawkins, David S., Rose bldg
Henry & Fording Eng. Co., Rose bldg
Herman, Ludwig (Consulting & Expert), 7406 Cedar av
Hill, Harold H., N. E. bldg
Holbeck Co., Rockefeller bldg
Honsberg, Aug. A. (Ass't County Engr.), Old Court House
Hosford, D. Mason, Caxton bldg
Hughes Engineering Co., Citizens' bldg
Hulett, Geo. Henry (3rd V. P. Wellman-Seaver-Morgan Co.)
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Interstate Engineering Co., Builders' Ex.
Knapp, Henry M. (Editor Castings & Wood Craft), Caxton bldg
Leber, Geo., Caxton bldg
Lees, Ernest J., 1967 E 55th
Leighton, E. I. (Cleveland Mech. & Mfg. Co.
Lewis, Chas. B., Schofield bldg
Lindmueller, Edward, Williamson bldg
Little, Chas. H. (Mgr. Universal Drafting Mch. Co.)
Lucas, Hy. M. (Lucas Mch. Tool Co.)
McDonald Bros., Kickox bldg
McGeorge Engineering Co., The Century
McGeorge, Jno. (Partner Cleveland Engrg.
McKee, Arthur G., Rockefeller bldg Co.)
McMullin, Frank V. (Supt. Cleveland City Forge & Iron Works)
McNairy, Amos B. (Mfr.), Hickox bldg
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Moore Engineering Co., Williamson bldg
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Murray, Geo. R. (Pres. Maxwell Rolf Stone Co.)
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Osborn Engineering Co., Osborn bldg
Palmer, Arthur E. (Ch. Engr. Ferro Mch. & Fdy. Co.)
Parish, W. H. (Asst. Supt. Nat'l Carbon Co.)
Peck, Eugene (Gen'l Supt. Cleveland Twist Drill Co.)
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Pitkin, Stephen H. (1st V. P. Wellman-Seaver-Morgan Co.)
Plantinga, Pierce, Citizens bldg
Prather. H. B., Rockefeller bldg
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Reilly, Wm. J. (Mgr. Clev. Office Babcock & Wilcox Co.)
Reliance Engineering Co. (Consulting & Supervising), 4th Nat'l Bank bldg
Rider, Geo. S. (Consulting), Century bldg
Robbins, C. C. (Treas. & Gen'l Mgr. Cleveland Crane & Engrg. Co.)
Roberts, Thomas W., Society for Savings
Roberts & Abbott Co. (Inc.) (Consulting), Schofield bldg
Rogers, Wm. S., Schofield bldg bldg
Rusbatch, A. (Supt. Rod Mills)
Seaver, John W., Caxton bldg
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Smith, H. J. (Ch. Engr. Hill Clutch Co.)
Smith, R. H. (Supt. Nat'l Screw & Tack Co.)
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Stratton, Jas. H. (Engr. of Constr. Wellman-Seaver-Morgan Co.)
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Vorce Engineering Co., Perry-Payne bldg
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Wellman, Sam'l T., 8803 Euclid av Co.)
Wellman-Seaver-Morgan Co., 7004 Central av, S E
West, Thos. D. (Mgr. & Exp. West Steel Casting Co.)
Whitlock, Elliott H. (Asst. Factory Mgr. Natl. Carbon Co.)
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Wyman, Arthur H. (Sales Mgr. Allis-Chalmers Co.), Schofield bldg

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Hitchcock, Embury A. (Prof. Exper. Engr. Ohio State Univ.)
Jackson, Walter W. (Engr. of Water Supply), City Hall
Magruder, Wm. T. (Prof. Mech. Engrg. Ohio State Univ.)
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Robinson, Stillman W. (Pres. S. W. Robinson & Co.)
Stocklin, W. C. Co., 817 S Champion
Wyer, Sam'l S. (Consulting), Harrison bldg
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Shouvlin, Patrick J. (Prop. Superior Gas Eng. Co.)
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Hartman, W. W., 843 Willow av
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Luehrs, Dan'l M. (Ch. Engr. & Supt. McCreery Engrg. Co.)
McCreery Engineering Co.
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Rathbun, Geo. J. (V. P. & Engr. Rathbun-Jones Engrg. Co.)
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Wuerfel, Geo. D. (Mem. of Firm Wuerfel & Miggett), Ohio bldg
Yaryan, Edw. B. (Supt. Yaryan Naval Stores Co.)
Zock, A. E. (Consulting), Colton bldg
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Norton, Fred E. (Ch. Engr. Wm. Tod Co.)
Reynolds, Irving H. (V. P. & Mgr. Wm. Tod Co.)
Robinson, C. S. (2d V. P. Youngstown Sheet & Tube Co.)
Rust, Wm. F. (Ch. Engr. Youngstown Sheet & Tube Co.)
Wick, H., Dollar Savings & Trust Co. bldg
Woodward, L. A. (Wks. Mgr. Wm. Tod Co.)
Young, Jno. P. (Gen'l Mgr. Youngstown Car Mfg. Co.)
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Herrick, H. A., Pawtucket, R. I.
Hill, Nathaniel, 228 Worthen, Lowell, Mass.
Hinds, Fred S., Essex bldg, Boston, Mass.
Howland-Kirk Co., 50 Church, New York
**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)
Jones, E. D. & Sons Co., Pittsfield, Mass.
Keiser-Van Leer Co., Bloomington, Ill.
Kimball, Herbert S. (Rubber & Paper Mills, etc.), 46 Cornhill, Boston, Mass.
Kitfield, Edw. H., 46 Cornhill, Boston, Mass.
Ladshaw & Ladshaw, Spartansburg, S. C.
Lambert & Brooks, New Haven, Conn.
Leach, Geo., 333 Butler Ex, Providence, R. I.
Lockwood, Greene & Co., 93 Federal, Boston, Mass.
Main, C. T., 201 Devonshire, Boston, Mass.
Makepeace, C. R. & Co., 429 Butler Exch, Providence, R. I.
Marvel, E. I., 81 Bedford, Fall River, Mass.
Moulton, H. L., 1215 Filbert, Phila., Pa.
Newhall, Geo. M. Engineering Co. (Ltd.) (Paper & Pulp Mills, Sugar Refineries, Cement Plants, etc.), 136 S 4th, Phila., Pa., & 43 Cedar, New York
Nordyke & Marmon Co., Indianapolis, Ind.
**OSBORN ENGINEERING CO., Osborn** bldg, Cleveland, O., & Land Title bldg, Phila., Pa. (See adv. index, end of book)
Robbins, O. H., Charlotte, N. C.
Sawyer, Edw., 60 Congress, Boston, Mass.
Seabury, Dwight, 12 East av, Pawtucket, R. I.
Sellers, Philip, 756 Chapel, New Haven, Conn.
Shand Engineering Co., Columbia, S. C.
Sheldon, Frank P. & Sons, Providence, R. I.
Sirrine, J. E., Greenville, S. C.
Smith, Horace H., Ford bldg, Boston, Mass., & Lawrence, Mass.
Smith & Hansell, Provident bldg, Phila., Pa.
Snow & Humphreys, 85 Water, Boston, Mass.
Spackman, Henry S. Engineering Co., 42 N 16th, Phila., Pa.
Stebbings, W. L. (Hydraulic Mill Work, Modernizing, Inspecting, Supervising, Heating & Ventilating, etc.), Monadnock blk, Chicago, Ill.
Tingley, Rich. H., 50 Church, New York
Tracy Engineering Co., Sheldon bldg, San Francisco, Cal.
Walker, A. F., Austell bldg, Atlanta, Ga.
Wallace, Jos. H. & Co., 5 Beekman, New York
Washburn, A. H., Charlotte, N. C.
Whaley, W. B. Smith, Boston, Mass.
Wolf, Otto C. (& Brewery), Deuckla bldg, Phila., Pa.
Wolfender & Zivoli, Worcester, Mass.

## Engineers (Mining)

(See names in Engineers, Civil, marked Mining between their names and addresses)

## 3331—Engineers (Modernizing)

Dodge, Day & Zimmerman (Of Power & Manufacturing Plants), 608 Chestnut, Phila., Pa.
Emerson Co., 30 Church, New York
Pratt & Van Winkle, 160 5th av, New York
Raeder & Wood (Plant Design, Construction & Equipment), Great Northern bldg, Chicago, Ill.

## 3332—Engineers (Refrigeration)

Howland-Kirk Co., 50 Church, New York

## Engineers (Reinforced Concrete)

(See Concrete Steel Construction, Reinforced)

## 3333—Engineers (Sanitary)

Adams, Henry (Consulting), Calvert bldg, Baltimore, Md.
Aetna Engineering Bureau, 125 Lasalle, Chicago, Ill.
Albright & Mebus, 908 Land Title bldg, Phila.,
Allen & Farrington, Syracuse, N. Y. Pa.
Alvord & Burdick, 140 Dearborn, Chicago, Ill.
Ashley House Sewage Disposal Co., Land Title bldg, Phila., Pa.
Bacterial Sewage Purification Co., 32 B'way, New York
Barbour, Benj. F. P. & Elec. Co., Birmingham, Ala.
Baumeister, A., 2 Palmer, Cambridge, Mass.
Beach, Henry T., City Hall, Syracuse, N. Y.
Bell & Melluish, Eagle blk, Bloomington, Ill.
Bowditch, Ernest W., 60 Devonshire, Boston, Mass.
Bradbury, E. G. (Consulting), 85 N High, Columbus, O.
Brown, Chas. Carroll, Commercial Club bldg, Indianapolis, Ind.
Building & Sanitary Inspection Co., 56 Maiden la, New York
Burns & McDonnell, Scarritt bldg, Kansas City, Mo.
Cameron Septic Tank Co., Monadnock blk, Chicago, Ill.
Cappelen, F. W., Oneida blk, Minneapolis, Minn.
Chapin, L. E., Canton, O.
Christian, G. L., Yonkers, N. Y.
City-Wastes Disposal Co., 156 5th av, New York
Colby & Baker, Lincoln Trust bldg, St. Louis, Mo.
Cole, John A., 59 Clark, Chicago, Ill.
Cook, J. D., Toledo, O.
Darling, Oscar, 21 Park row, New York
Darrach, Chas. G., Mount Vernon, Wash.
Dickinson, Henri D. (Consulting), 45 E 17th, New York
Dudley, Arthur, Manchester, N. H.
Ellsworth & Howes (Consulting), Holyoke, Mass.
Ewing, Wm. B., 138 Washington, Chicago, Ill.
Fuertes, Jas. H., 140 Nassau, New York
Fuller, Frank L., 12 Pearl, Boston, Mass.
Gannett, C. H., 53 State, Boston, Mass.
Goss, C. G. H., Martinville, Ind.
Gray Construction Co., Walker bldg, Louisville, Ky.
Gray, Sam'l M., Banigan bldg, Providence, R. I.
Guthrie & Diehl, Ellicott sq, Buffalo, N. Y.
Harrison & Schreiber, Land Title bldg, Phila., Pa.
Hawes, Louis E., 101 Tremont, Boston, Mass.
Hering & Fuller (Sewage & Sewage Disposal), 170 B'way, New York
Hill, Geo., 31 E 27th, New York
Iowa Engineering Co., Clinton, Ia.
Jeup & Moore, Indiana Trust bldg, Indianapolis, Ind.
Kiersted, Wynkoop, Water Works bldg, Kansas City, Mo.
Kops, J. de Bruyn, Savannah, Ga.
Layman, E. F., Blymyer bldg, Cincinnati, O.
Lloyd, Percival M., 39 Market, Poughkeepsie, N. Y., & 109 Lexington av, New York
Longyear, Orson C. (Consulting), Kingston, N. Y.
Loweth, Chas. F., 1st Nat'l Bank bldg, St. Paul, Minn.
Ludlow, J. D., Winston Salem, N. C.
McClellan, Dodge, Madison, Wis.
McClintock, John N., 89 State, Boston, Mass.
McClintock & Woodfall, 15 Court sq, Boston, Mass.
McMurray, Eugene A., 22 Clinton, Newark, N.J.
Mann, T. W., Holyoke, Mass.
Merrill, Geo. N. & Co., 292 Main, Springfield, Mass.
Metcalf & Eddy,, 14 Beacon, Boston, Mass.
Meyers, Chas. B., 1 Union sq, W, New York
Morgan, Geo. O., 169 Jackson blvd, Chicago, Ill.
Morgan, W. & Co., 330 Market, San Francisco, Cal.
O'Flaherty, Daniel & Son, 708 Wall, Kansas City, Mo.
Optenberg & Sonneman, Sheboygan, Wis.
Phillips, Hiram, 301 City Hall, St. Louis, Mo.
Pierson, Geo. S., Kalamazoo, Mich.
Potter, Alex., 116 Liberty, New York
Rafter, Geo. W., Rochester, N. Y.
Riggs & Sherman Co. (Consulting), The Nasby, Toledo, O.
Sarle, O. Perry, 142 Westminster, Providence, R. I.
Shields, W. S. & Co., 104 Dearborn, Chicago, Ill.
Stanley, H. J., City Hall, Cincinnati, O.
Stewart, Jas. A., Traction bldg, Cincinnati, O.
Stickney, G. F., Paducah, Ky.
Stoddard, G. F., 199 Chestnut, Lynn, Mass.
Strong, Wilson B., Atlanta bldg, Washington, D. C.
Sutton, Frank (Consulting), 80 B'way, New York
Todd, Hugh, 146 Spring, Los Angeles, Cal.
Tucker, Wm. C., 156 5th av, New York
Van Emburgh, H. C., Plainfield, N. J.
Vermeule, Cornelius C., 203 B'way, New York
Wardle & Yeager, Cedar Rapids, Ia.
Waring, Chapman & Farquhar, 874 B'way, New York
Warriner, Thos. R., Cedar Rapids, Ia.
Webster, Albert L. (Consulting), 88 Wall, New York
Weston, Ed. B., 86 Weybosset, Providence, R. I.
Weston, Robert S., 14 Beacon, Boston, Mass.
Wheeler, Wm., 14 Beacon, Boston, Mass.
Wilkins, W. G. Co., Westinghouse bldg, Pittsburg, Pa.
Wilson, Harris & Richards, Drexel bldg, Phila., Pa.
Winters, Edw. E. (Sewage Disposal), Benson bldg, Albany, N. Y.
Wise & Watson, Passaic, N. J.
Woodbridge, S. Homer, 420 Bolyston, Boston, Mass.

## 3334— Engineers' Bulletin

Handlan-Buck Mfg. Co. (Kemp's), St. Louis, Mo.

## 3334a—Engineers' Supplies, Etc.

(See the Specific Article Wanted)

(For Dealers in Engineers' Specialties see Mill & Factory Supplies; also Steam Fitters' Supplies)

## Engines

NOTE—In order to avoid duplications when addressing Engine Mfrs., address "Engines (Automobile)," "Engines (Steam)" and "Engines (Gas & Gasoline)" only, as all other Engine Lists are duplications of the above.

## 3335—Engines (Aerial Navigation)

Lowe Bros. Machine Works ("Lowe"), Columbus, O.

## Engines (Air)

(See Engines, Compressed Air)

## 3336— Engines (Alcohol)

Badger Gas & Gasoline Engine Co., Kansas City, Kans.
Callahan, W. P. Co. (Inc.), Dayton, O.
Challenge Co., Batavia, Ill.
Detroit Engine Works (2 to 8 h.p.), Detroit, Mich.
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
INTERNATIONAL HARVESTER CO. of America ("I-H-C"), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Middletown Machine Co., Middletown, O.
New-Way Motor Co. ("New-Way" Air Cooled), Lansing, Mich.
Temple Pump Co. ("Master Workman," 1½ to 50 H. P., One, Two & Four Cylinder), 15th & Meagher, Chicago, Ill.

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## Engines (Artesian Well)

(See Pumps, Artesian Well)

## 3336a—Engines (Automatic)

(See Engines (Steam) with the word "Automatic," Etc., following Name)

## 3337—Engines (Automobile)

Albrecht Mfg. Co. (Gasoline), Columbus, Ga.
American Die & Tool Co. (Gasoline), Reading, Pa.
American Gasoline Motor Co., Baldwinsville, N. Y.
American Oil Engine Co. (Oil), Danielson, Conn.
**American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.**
**Atlas** Engine Works, Indianapolis, Ind.
**Augustine Automatic Rotary Engine Co. (Steam), 132 Northampton, Buffalo, N. Y.**
**Aurora** Automatic Machine Co. (Gasoline), Aurora, Ill.
Auto Engine Works (Gasoline), St. Paul, Minn.
Beaver Mfg. Co. ("Beaver," Gasoline), Milwaukee, Wis.
Beilfuss Motor Co. (Gasoline), Lansing, Mich.
Boss Knitting Machine Works (Steam), Reading, Pa.
Brennan Motor & Mfg. Co. (Gasoline), Syracuse, N. Y.
**Brownell, F. A. Motor Co.** (Gasoline, 34-H. P.), Rochester, N. Y.
Brown-Talbot Machinery Co. (Gasoline), Boston, Mass.
**Chester Engineering & Machine Co. ("Penn" Gasoline, 20 & 30 H. P.),** Chester, Pa.
Clark, Edw. S. (Steam), Boston, Mass.
Clinton, Walter R., West Haven, Conn.
Columbus Screw & Machine Co. (Gasoline), Columbus, O.
**Continental Motor Mfg. Co.** (Gas), Muskegon, **Davis Mfg. Co., Milwaukee, Wis. Mich.**
De Tamble Motor Co. ("Carrico" 18-20 H. P. Cylinder, 4 Cycle, Air Cooled Gasoline), Anderson, Ind.
**Fast,** Hans (Gasoline), Milwaukee, Wis.
Ferro Machine & Foundry Co., Cleveland, O.
**Forsyth, W. & Son** (Gasoline), Lynn, Mass.
Funke, A. H. ("Kelecom" Gasoline), 83 Chambers, New York
**Gemmer Mfg. Co., Detroit, Mich.**
**Hartford Marine & Auto Co.** (Gasoline), 25 Elliott, Boston, Mass.
Hatcher Auto Parts Co. (Gasoline), Cleveland, Ohio
**Hershell-Spillman** (Gasoline), West Tonawanda,
Hill, R. S. (Gasoline), Detroit, Mich. **N. Y.**
**Hoffman, W. Motor Works** (Gasoline), 1253 N Halsted, Chicago, Ill.
**Holbrook-Armstrong Iron Co.** (4 to 6 Cylinder), Racine, Wis.
**Ideal** Machine Works, 255 39th, Brooklyn, N. Y.
**Illinois Automobile Parts Co. ("Holtz"), Peoria. Ill.**
Kirkham Motor Mfg. Co. ("Kirkham" Gasoline), Bath, N. Y.
**Lamson, E. F.** (Gasoline), Abington, Mass.
Lowe Bros. Machine Works, Columbus, O.
**Mason Regulator Co.** (Steam & Gasoline), 158 Summer, Boston, Mass.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
**Michigan** Automobile Co. (Ltd.) (Gasoline), Kalamazoo, Mich.
Milwaukee Motor Co. (4-Cylinder Gasoline), Milwaukee, Wis.
**Mitchell Motor Co. ("Mitchell" Gasoline),** Racine, Wis.
**Model Gas Engine Works** (Double Opposed Air Cooled & Water Cooled, Gasoline), Peru, Ind.
**Myers, A. J. ("Aster," Imported), 244 W** 49th, New York
**Neustadt** Auto & Supply Co. (Gasoline & Steam), 3948 Olive, St. Louis, Mo.
Northway Motor & Mfg. Co. (Gasoline), Detroit, Mich.
Ofeldt, F. W. & Sons (Steam), Nyack, N. Y.
Parker Motor Co. (Gasoline), Hartford, Conn.
Port Huron Construction Co., Port Huron, Mich.
**Reeves** Pulley Co. (Gasoline), Columbus, Ind.
**St. Louis Gas & Gasoline Engine Co., 2615** De Kalb, St. Louis, Mo.
**Sandusky Foundry & Machine Co.** (Gas & Gasoline), Sandusky, O.
Seager Engine Works, Lansing, Mich.
Seitz, F. A. Co. (Gasoline), Newark, N. J.
Smith, A. O. Co. (Gasoline, 4-Cycle), Milwaukee, Wis.
Streit, A. Machine Co. (Gasoline), Cincinnati, Ohio
Watertown Motor Co. (S. F. Bagg, Prop.), Watertown, N. Y.
Waukesha Motor Co. (Auto Motors), Waukesha, Wis.
Westerfield Motor Co. (Gasoline), Anderson. Ind.
Western Motor Co. ("Rutenber," Gasoline), Logansport, Ind.
Wisconsin Motor Mfg. Co. (Gasoline), North Milwaukee, Wis.

## 3338— Engines (Beating)

Black-Clawson Co., Hamilton, O.
Clark, H. C. & Son Machine Co., Lee, Mass.
Currier, Cyrus & Sons (Also Washing), Newark, N. J.
Dayton Globe Iron Works Co. (For Paper Mills), Dayton, O.
Dillon Machine Co., Lawrence, Mass.
Dilts Machine Works, Fulton, N. Y.
Downington Mfg. Co., East Downington, Pa.
Emerson Mfg. Co. ("Emerson"), Lawrence. Mass.
Holyoke Mach. Co., Holyoke & Worcester, Mass.
Jones, E. D. & Sons Co., Pittsfield, Mass.
Meuer, E. (Stone Beater Rolls), Muskegon. Mich.
Noble & Wood Machine Co., Hoosick Falls,
Poole, J. Morton Co., Wilmington, Del. N. Y.
Pusey & Jones Co., Wilmington, Del.

## 3339— Engines (Blowing)

**ALLIS-CHALMERS CO. (Horizontal or Vertical), Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Ship Building Co., Cleveland, O.
**BEACH-RUSS CO., 55-59 Green,** Brooklyn, N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Bruce-Macbeth Engine Co., Cleveland, Co.
Builders' Iron Foundry, Providence, R. I.
Canton-Hughes Pump Co., Wooster, O.
Heisler, C. L. Mfg. Co., St. Marys, O. book)
**HOOVEN-OWENS-RENTSCHLER CO.,** Hamilton, O. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lake Erie Engineering Works, Buffalo, N. Y.
Mesta Machine Co., Pittsburg, Pa.
**Morris, I. P. Co., Beach c Ball, Phila., Pa.**
National Foundry & Mach. Co., Louisville, Ky.
Nordberg Mfg. Co., Milwaukee, Wis.
Perrin, Wm. R. & Co., Chicago, Ill.
Platt Iron Works Co., Dayton, O.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Pratt Engineering & Machine Co., Atlanta, Ga.
Southwark Fdry & Machine Co., Phila., Pa.
Tod, Wm. Co., Youngstown, O.
Weimer Machine Works Co. (Positive Blast, 30 to 200 h p), Lebanon, Pa.
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
**WESTINGHOUSE MACHINE CO.,** The, Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)
Wisconsin Engine Co. (Long Crosshead, Steeple Type & Horizontal), Corliss, Wis.

## 3340—Engines (Breaking, Paper Mill)

Noble & Wood Machine Co., Hoosick Falls, N. Y.

## 3341—Engines (Bridge Erecting)

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
**LAMBERT HOISTING ENGINE CO.,** 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car-**roll av, Chicago, Ill. (See adv. index, end of book)
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## Engines (Chemical)

(See Fire Engines, Chemical; also Fire Extinguishers)

## 3342—Engines (Churn Drill)

Engines (Churn Drill)
"Misaba" Reversible
MANUFACTURED BY
CLYDE IRON WORKS
DULUTH, MINN.

**CLYDE IRON WORKS "Misaba,"** Reversible), Duluth, Minn. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO. ("Evered"),** Duluth, Minn. (See adv. index, end of book)

## 3343—Engines (Compound)

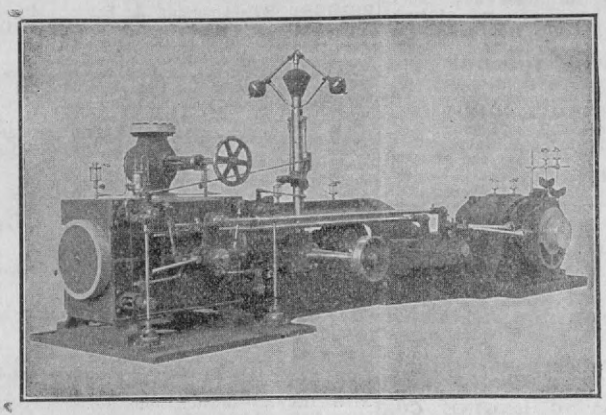
Advance Thresher Co., Battle Creek, Mich.
**ALLIS-CHALMERS CO. (Horizontal** or Vertical Tandem & Cross), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Atlas Engine Works, Indianapolis, Ind.
Brownell Co., Dayton, O.
**BUCKEYE ENGINE CO., Salem, O.** (See adv. index & branch offices, end of book)
**ELLICOTT MACHINE CO. (& Triple** Expansion), Bush & Severn, Baltimore, Md. (See adv. index, end of book)
Erie City Iron Works (4-Valve Tandem & Cross), Erie Pa.
Harrisburg Foundry & Machine Works (Single Cylinder, as well as Tandem & Cross Compound), Harrisburg, Pa.
**HOOVEN, OWENS, RENTSCHLER** Co., Hamilton O. (See adv. index & branch offices, end of book)
**MINNEAPOLIS STEEL & MACHIN-**ery Co. (Vertical & Horizontal Cross Compound & Tandem Compound Condensing Corliss), Minneapolis, Minn. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS (S to** 350 h. p.), Baldwinsville, N. Y. (See adv. index & branch offices, end of book)
Nagle Corliss Engine Works, Erie, Pa.
**THROPP'S, JOHN E. & SONS CO.** (Marine), ft of Lewis, Trenton, N. J. (See U. S. Rapid-Fire Gun & Power Co. ("Francke" Four Ported Steam), Derby, Conn.
Wisconsin Engine Co. (Tandem up to 10,000 H. P.), Corliss, Wis.

## 3344—Engines (Compressed Air)

(See also Compressors, Air)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of Dake Engine Co., Grand Haven, Mich. book)
**DETROIT HOIST & MACHINE CO., De-**troit, Mich. (See adv. index, end of book)
Empire Engine & Motor Co. ("Empire" Hoisting, etc.), Orangeburg, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO. (For Cranes),** 11 B'way, New York. (See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co., Littleton, Col.

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## 3345– Engines (Corliss)

### ALABAMA.

BIRMINGHAM—Birminghgam Machine & Fdry
Hardie, Tynes Mfg. Co. Co.

### CALIFORNIA.

SAN FRANCISCO—Golden State & Miners' Iron
Hendy, Joshua Iron Works Co. Works)
Union Iron Works Co. (100 to 3000 h. p.)

### CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co.
NEW BRITAIN—New Britain Machine Co.
NEW HAVEN—Twiss, N. W.

### ILLINOIS.

CHICAGO—American Brake Shoe & Fdry Co.
**FAIRBANKS, MORSE & CO,, 481**
Wabash av. (See adv. index, end of book)
JOLIET—Bates Machine Co. (50 to 500 h. p.)

### INDIANA.

EVANSVILLE—Heilman Machine Works
FORT WAYNE—Bass Foundry & Machine Co.
(30 to 2000 h. p.)
INDIANAPOLIS—Atlas Engine Works

### IOWA.

BURLINGTON—Murray Iron Works Co.

### MASSACHUSETTS.

FITCHBURG—Brown, C. H. Engine Co.
Fitchburg Steam Engine Co.

### MICHIGAN.

SAGINAW—Bartlett, A. F. & Co. (50 to 1,000 h. p.)

### MINNESOTA.

MINNEAPOLIS — **MINNEAPOLIS STEEL** & Machinery Co. ("Twin City"). (See adv. index, end of book)

### MISSOURI.

DULUTH—**NATIONAL IRON CO.** (See adv. index, end of book)
KANSAS CITY—Strait, H. N. Mfg. Co. ("Monarch" Simple Compound, Horizontal & Vertical High Duty)
ST. LOUIS—Fulton Iron Wks (30 to 5000 h. p.)
Ramming, John Machine Co.
St. Louis Iron & Machine Works (Single. Tandem & Cross Compound, Heavy Duty & Girder Frame, 50 to 3000 h. p.)
South St. Louis Foundry Co.

### NEW JERSEY.

HOBOKEN—Consolidated Iron Works
MAHWAH—American Brake Shoe & Fdry Co.
NEWARK—Hewes & Phillips Iron Works (50 to 2000 h. p.)
Watts-Campbell Co. (40 to 1000 h. p.)
**TRENTON—CROSSLEY MACHINE CO.,** State & Monmouth. (See adv. index, end of book)
**THROOP'S, JOHN & SONS CO., ft** of Lewis. (See adv. index, end of book)

### NEW YORK.

BELMONT—Clark Bros. Co. (High Speed)
FISHKILL-ON-HUDSON—Fishkill Landing Machine Co. (25 to 1,000 h. p.)
NEWBURGH—Newburgh Ice Machine & Engine Co.
NEW YORK—New York Engine Co. (Simple, Compound & Triple Expansion, 300 to 1500 h. p.), 165 B'way. Works: Watertown, N. Y.
TROY—Knowlson & Kelly (40 to 2,000 h. p.)
WATERTOWN—New York Engine Co. (See New York City)

### NORTH CAROLINA.

GREENSBORO—Greensboro Boiler & Machine Co. (Slide Valve & Automatic)

### OHIO.

CINCINNATI—Lane & Bodley Co. (50 to 5000 h. p.)
CLEVELAND — Wellman-Seaver-Morgan Co. ("Akron," 30 to 2000 H. P.)
HAMILTON — **HOOVEN, OWENS,** Rentschler Co. ("Hamilton," 30 to 10,000 H. P.) (See adv. index, end of book)
IRONTON—Ironton Engine Co.
MASSILLON—Russell Engine Co.
MOUNT VERNON—Cooper, C. & G. Co. (20 to 1200 h. p. Heavy Duty)
YOUNGSTOWN—Tod, W. Co. (1,000 H. P. up)
**ZANESVILLE—Griffith & Wedge Co. ("Ohio")**

### PENNSYLVANIA.

CHESTER—Wetherill, Robt. & Co. (25 to 2000 h. p.)
ERIE—Ball Engine Co. (Horizontal & Vertical, 300 to 1200 h. p.)
Nagle Corliss Engine Wks (17 to 2000 h. p.)
HARRISBURG—Harrisburg Foundry & Machine Works ("Fleming," 4-Valve Automatic)
OIL CITY—Oil City Boiler Works
PHILADELPHIA—Southwark Foundry & Machine Co. ("Southwark")
PITTSBURG—Mesta Machine Co.
**WESTINGHOUSE MACHINE CO.,** The, Westinghouse bldg. (See adv. index, end of book)
READING—Reading Iron Co.
SCOTTDALE—Scottdale Foundry & Machine Co.
WAYNESBORO—Frick Co. ("Eclipse")
WILLIAMSPORT—Valley Iron Works (Non-Releasing Valve Gear)
YORK—York Ice Machine Mfg. Co.

### RHODE ISLAND.

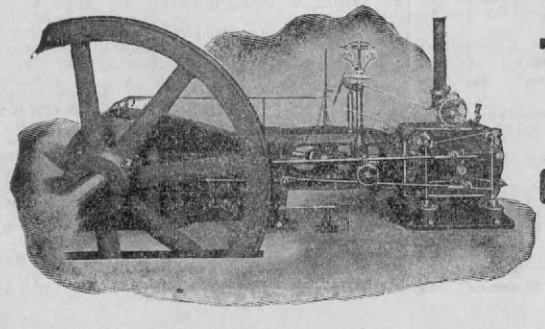
PROVIDENCE—American & British Mfg. Co.
Harris, Wm. A. Steam Engine Co. (Cross & Compound Condensing & Triple Expansion, etc.)
Providence Engineering Works ("Rice & Sargent")

### TENNESSEE.

JACKSON—Southern Engine & Boiler Works (Inc.)

### WISCONSIN.

CORLISS—Wisconsin Engine Co. (Heavy Duty, Up to 800 h. p.)
MILWAUKEE—**ALLIS-CHALMERS CO.** ("Reynolds-Corliss"). (See adv. index, end of book)
Filer & Stowell Co. ("1900 Heavy Duty")
Nordberg Mfg. Co.
**VILTER MFG. CO. (30 to 1000** h. p.), 1046 Clinton. (See adv. index, end of book)



ESTABLISHED 1867
THE VILTER MFG. CO.
1046 CLINTON STREET,
MILWAUKEE, WISCONSIN.
Corliss Engines for Belted or Direct Connected Service
Ice and Refrigerating Machinery
Outfits for Brewers and Bottlers

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## 3346– Engines (Deck)

Chase Machine Co. (Single & Double Geared), Cleveland, O.
Gillie Machine Co., Tonawanda, N. Y.
Superior Iron Works Co. (Three Drum, etc.), Superior, Wis.

## 3347– Engines (Dental)

Ritter Dental Mfg. Co. ("Columbia" Electric). Rochester, N. Y.

## 3348–Engines (Direct Connected & Belted)

(See also Generators, Electric Light; also Generators, Power)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Engine Co., Bound Brook, N. J.
Ames Iron Works, Oswego, N. Y.
Ball & Wood Co., Elizabeth, N. J.

Steam Specialists
**JAMES BEGGS & CO.**
(Horizontal & Vertical Engines), Liberty & Church, New York
Brownell Co., Dayton, O.

**BUCKEYE ENGINE CO., Salem, O.** (Gas or Steam). (See adv. index & branch offices, end of book)
Fisher Electrical Works, Cincinnati, O.
Harrisburg Foundry & Machine Works, Harrisburg, Pa.

**HOOVEN, OWENS, RENTSCHLER** Co., Hamilton, O. (See adv. index & branch offices, end of book)
Ide, A. L. & Sons, Springfield, Ill.
Knowlson & Kelly, Troy, N. Y.
McIntosh, Seymour & Co., Auburn, N. Y.

**MINNEAPOLIS STEEL & MACHINERY** Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Murray Iron Works Co., Burlington, Ia.
New York Safety Steam Power Co., 95 Liberty, New York
Nordberg Mfg. Co., Milwaukee, Wis.
Noye Mfg. Co., Buffalo, N. Y.
Ridgway Dynamo & Engine Co., Ridgway, Pa.
Shepherd Engineering Co., Williamsport, Pa.
Skinner Engine Co., Erie, Pa.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Stickney, Chas. A. Co. (Gas & Gasoline), St. Paul, Minn.

**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.
U. S. Rapid-Fire Gun & Power Co. ("Francke" Four Ported Steam), Derby, Conn.

**WESTINGHOUSE MACHINE CO., THE,** Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)

## 3349–Engines (Distillate)

**Alamo Mfg. Co., Hillsdale, Mich.**
**Badger Gas & Gasoline Engine Co., Kansas City, Kan.**

**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)

**Middletown Machine Co., Middletown, O.**
**Superior Gas Engine Co., Springfield, O.**
**Reeves Engineering Co., Mount Vernon, O.**
**Root & Van Dervoort Engineering Co., East Moline, Ill.**
Rumely, M. Co. (30 to 60 h. p.), LaPorte, Ind.
Temple Pump Co. ("Master Workman," 1½ to 50 h. p., One, Two & Four Cylinder), 15th & Meagher, Chicago, Ill.
**Ziegler-Schreyer Mfg. Co., Freeport, Ill.**

## 3350–Engines (Drawbridge)

**BEGGS, JAMES & CO., Liberty &** Church, New York

**LIDGERWOOD MFG. CO., 96 Liberty,** New York & Old Colony bldg, Chicago (See adv. index & branch offices, end of book)

**MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass.** (See adv. index & branch offices, end of book)

## 3351–Engines (Dredging)

**BEGGS, JAMES & CO., Liberty &** Church, New York

**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)

**ELLICOTT MACHINE CO., Bush & Severn, Baltimore, Md.** (See adv. index, end of book)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)

**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)

**LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J.** (See adv. index & branch offices, end of book)

**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**MARION STEAM SHOVEL CO., West** Center, Marion, O. (See adv. index & branch offices, end of book)

**MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass.** (See adv. index & branch offices, end of book)

**MONIGHAN MACHINE CO., 2034 Carroll av, Chicago, Ill.** (See adv. index, end of book)

**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)

**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## 3352–Engines for Fan Driving, Etc.

Brownell Co., Dayton, O.
Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West Street bldg, New York
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.

## 3353–Engines (Gas & Gasoline)

(See also Engines, Gasoline, Marine)

### ARIZONA TERRITORY.

NOGALES—Roy & Titcomb (Inc.)

### CALIFORNIA.

ALAMEDA—Gorham Engineering Co. (Marine Gas)
FRESNO—Central California Machine Works (Inc.) (Gas)
LOS ANGELES—**FAIRBANKS, MORSE & Co. (Gas & Gasoline for All Purposes),** 136 Los Angeles. (See adv. index, end of book)
Norton Engine & Power Co. ("Alamo," Gas)
Stearns Gas Engine Works (Gas)
**Western Gas Engine Co. (7 to 500 h. p.)**
OAKLAND—Atlas Gas Engine Co. (Gas)
**Standard Gas Engine Co.**
**Union Gas Engine Co. (Gas & Oil), East Oakland**
POMONA—Pomona Mfg. Co. (Gasoline)
SAN FRANCISCO—Bailey-Smith Machine Wks (Gas & Oil)
Corliss Gas Engine Co. (Stationary & Marine)
Dundon's, F. P. San Francisco Iron Works
**FAIRBANKS, MORSE & CO. (Gas & Gasoline. (For All Purposes), 310 Market.** (See adv. index, end of book)
**Garratt, W. T. & Co. (Inc.), 142 Fremont**
**Golden State & Miners' Iron Works (Gas & Gasoline), 231 1st**
Henshaw, Bulkley & Co., 219 Spear
**Hicks, Jas. L. (Gas, etc.), 667 Mission**
**Imperial Gas Engine Co. (Gas), 60 Clementina**
**Jackson, Byron Machine Works (Gas & Gasoline), 411 Market**
Ohmen Engine Works, 17th & Capp
Schilling, Adam & Sons (Gas & Gasoline).
**Standard Gas Engine Co. (Gas) 211 Main**
**Union Gas Engine Co. ("Union"), 244 1st**
Union Iron Works Co.
Woodin & Little (Gas & Gasoline)
SAN LEANDRO—**Best Mfg. Co. (Gas, Gasoline & Oil)**
STOCKTON—Samson Iron Works (Gas)

### COLORADO.

DENVER—**FAIRBANKS, MORSE & CO.** (Gas & Gasoline for All Purposes), 1600 17th. (See adv. index, end of book)
Finch Gas Engine & Machine Works
**FLORENCE—Florence Iron Works Co. ("Florence" Gas)**

### CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co. (Gas or Gasoline in Quantities Only)
**Automatic Machine Co. (Marine)**
Black Rock Machine Co. (Twin Screw Type)
**Bridgeport Motor Co. (Gasoline Motors)**
**Fairfield Motor Co. (Gasoline Motors)**
**Hitchcock Gas Engine Co. (Marine Gasoline)**
Royal Engine Co. ("Royal" Gasoline, 2 Cycle)
Wheeler Engine Co. (Gas & Gasoline)
**Wolverine Motor Works ("Wolverine" Marine 18 to 100 H. P.)**
CENTERBROOK—Connecticut Valley Mfg. Co, (Gasoline Marine)
COS COB—Palmer Bros. (Gasoline)
DERBY—Housatonic Motor & Machine Co. (Marine Gasoline)
HARTFORD—Gray & Prior Machine Co.
HARTFORD—Parker Motor Co. (Gasoline)
MIANUS—Mianus Motor Works. ("Hartford")
MIDDLETOWN—Frisbie-Heft Motor Co.
Hubbard Motor Co. (2 & 4 cycle)
MYSTIC—Lathrop, J. W. (Stationary & Marine, 1½ to 25 h. p.; Gas & Gasoline)
NEW BRITAIN—Kinne, Wm. A.
NEW HAVEN—Foster Motor Co. (Valves Non-Crank-Case Compression. Two Cycle, Auxiliary Air & Water Cooled)
Miner & Peck Mfg. Co. (Gas & Gasoline)
NEW LONDON—New London Gas & Electric Co. (Marine Gas)
New London Motor Co. (Gasoline)
NORWALK—Barker, C. L. (Gas)
SEYMOUR—Church, S. B. (Gas & Gasoline)
STAMFORD—Muench, George (Gasoline)
Stamford Motor Co. (Inc.), ("Snecker" Gasoline)
STONY CREEK—Beach, O. B. (Gas & Gasoline)
WEST MYSTIC—Holmes Motor Co.

### DELAWARE.

WILMINGTON—Delaware Machine Works (Gasoline, 5 to 200 h. p.)
Heinel, H. A. Co. (Marine, "Heinel," 5 to 35 h. p.)

### GEORGIA.

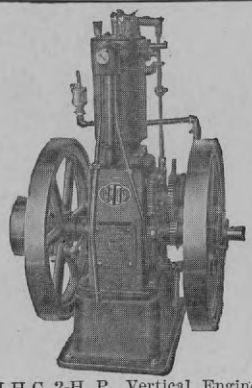
ATLANTA—Gibbs Gas Engine Co.

### ILLINOIS.

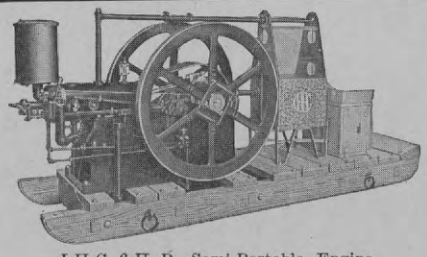
ALTON—Sparks. C. F. Machine Co.
BATAVIA—Challenge Co. (Gasoline)
CHICAGO—Aermotor Co. ("Aermotor"), 1146 S Campbell av
Alexander & Cox Co., 2358 Ogden av
**CALDWELL, H. W. & SON CO.,** Western av & 17th. (See adv. index, end of book)
Chicago Water Motor & Fan Co. ("Backus"), 40 Dearborn
Colborne Mfg. Co. (Gas), 416 W Indiana
Continental Engine Co., 131 Canal
**FAIRBANKS, MORSE & CO.** ("Jack-of-All-Trades," Gas & Gasoline, for All Purposes), 481 Wabash av. (See adv. index, end of book)
**INTERNATIONAL HARVESTER** Co. of America ("Famous," "I-H-C" Gasoline, Horizontal, Vertical, Pumping, Portable, etc.), 280 Michigan av. (See adv. index & branch offices, end of book)
Kling Bros. (Gas & Gasoline, 2 to 40 H. P.), 1304 Hawthorne av
Lammert & Mann (Gas & Gasoline), 216 S Jefferson
Latham Machinery Co. 306 S Canal
McDonald, A. H. (Gas), 547 W Monroe
Murray, W. B. (Gas & Gasoline), Winchester & Wabansia avs
Plunket, James E. (Gas), 1342 W Lake
Skillin & Richards Mfg. Co., 46th av & Courtland
Smith Mfg. Co. (Gasoline), 158 E Harrison
Temple Pump Co. ("Master Workman." 1½ to 50 h. p., One, Two & Four Cylinder), 15th & Meagher
United Pump & Power Co., 84 Van Buren
DECATUR—**LEADER IRON WORKS** ("Leader," "Domestic"). (See adv. index. Oakes, Wm. L. (Gasoline) end of book)
DIXON—Clipper Lawn Mower Co. (Gasoline Marine)
EAST MOLINE—Root & Van Dervoort Engineering Co. (Gas & Gasoline)
FREEPORT—Freeport Gas Machine Co. (Gas)
Stover Engine Works (Gasoline 1 to 60 h. p.)
Ziegler-Schreyer Mfg. Co. (Gasoline)
HAVANA—Havana Mfg. Co. ("Havana," "Red & Ready")
JOLIET—Buckeye Engine & Foundry Co.

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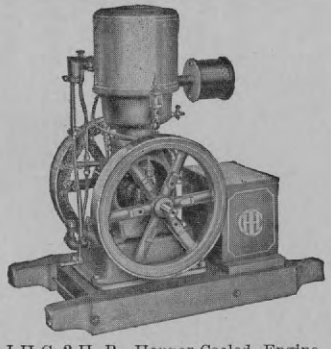
# I H C GASOLINE ENGINES



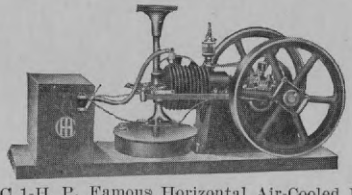
I H C 2-H. P. Vertical Engine



I H C 6-H. P. Semi-Portable Engine



I H C 2-H. P. Hopper-Cooled Engine



I H C 1-H. P. Famous Horizontal Air-Cooled Engine

## Standard of Quality for Every Power Need

### I H C Victor Stationary Engines

These engines are designed for general power work on the farm, in factories, grain elevators, grist mills, feed mills, hoisting plants, pumping stations, and for irrigating, shop use, etc. They are especially desirable where insurance restrictions will not permit gasoline to be kept in the building, as the fuel tank may be placed outside at a distance from the engine.

Vertical type made in 2 and 3-horse power sizes.

Horizontal type made in 4, 6, 8, 10, 12, 15, 20, and 25-horse power sizes.

### I H C Famous Semi-Portable Engines

The I H C famous engine on skids is designed to meet the ordinary needs of farm work. The engine is the result of years of conscientious and extensive experimenting. The simple design and thorough construction and the economical method of supplying fuel to the cylinder insures an efficient power that will last for many years. It is equipped with substantial skids on which the engine, cooling tower, and gasoline tank and battery box are securely mounted.

Vertical type, 2 and 3-horse power.

Horizontal, 4, 6, and 8-horse power.

### I H C Hopper Cooled Engines

I H C hopper-cooled engines have many advantages which should be considered by the prospective engine purchaser. The water jacket on the cylinder is enlarged to form a small, box-shaped tank. Only a small amount of water is required to fill this tank and cool the engine cylinder. This does away with a large cooling tank and makes the outfit more compact.

This outfit is especially desirable in cold weather as the water jacket is easily drained.

They are made in stationary, semi-portable, and portable types; vertical—2 and 3-horse power; horizontal—1, 2½, 4, 6, and 8-horse power.

### I H C Air Cooled Engines

I H C air-cooled engines are especially adapted for small jobs around the farm, and for contractors, railroad construction, etc. On small engines, this system of cooling is very satisfactory, and as no cooling water is required, there is never any danger of it freezing. These outfits are much lighter than the water-cooled engines, and are very easy to move from place to place. Jump spark ignition is used, and the batteries, coil, gasoline tank, and engine are all mounted on substantial wooden skids, making the outfit self-contained.

1-horse power, horizontal; 2 and 3-horse power, vertical.

LOOK FOR THIS TRADE MARK ON THE GENUINE

**International Harvester Company of America**

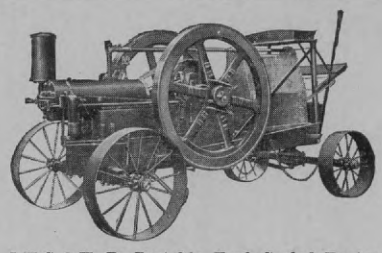
(INCORPORATED)

**230 Harvester Building** **CHICAGO U S A**

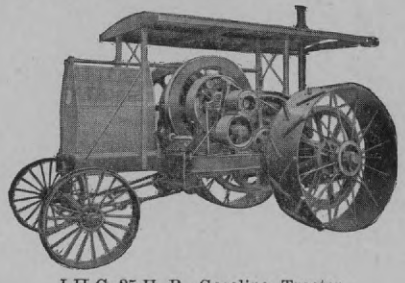
LOOK FOR THIS TRADE MARK ON THE GENUINE

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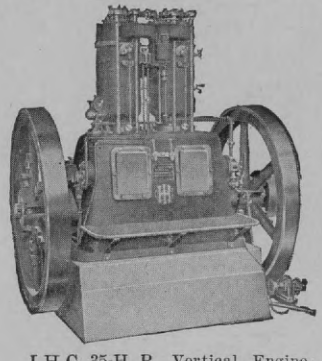
# I H C GASOLINE ENGINES



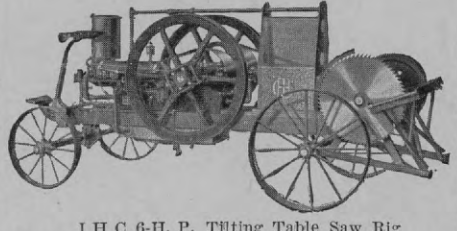
I H C 8-H. P. Portable Tank-Cooled Engine



I H C 25-H. P. Gasoline Tractor



I H C 35-H. P. Vertical Engine.



I H C 6-H. P. Tilting Table Saw Rig

## Standard of Quality for Every Power Need

### I H C Portable Engines

These engines have a wide range of adaptability. They can be moved easily from place to place and furnish the most efficient and economical power for operating farm machines, pumps, saws, etc. Contractors find them unequalled for well drilling, stone crushing, pumping, operating temporary electric light plants, and the like.

The trucks are light but exceptionally strong, and will stand the wear and tear of the roughest roads.

Tank-cooled: Made in 4, 6, 8, 10, 12, 15, 20, and 25-horse power sizes.

Hopper-cooled: Made in 4, 6, 8-horse power sizes.

### I H C Gasoline Tractors

An I H C gasoline tractor will do plowing, seeding, harrowing, hauling, and threshing at a small part of the cost of horse power. Later in the season it can be used for sawing wood, or any belt work that can be done with a portable engine with the added advantage that it moves itself from place to place.

For plowing, grading, hauling, operating concrete mixers, stone crushers, etc., on construction work, I H C gasoline tractors are unequalled.

Many towns are now using I H C gasoline tractors for road grading, hauling, operating stone crushers, etc.

Sizes 12, 15, 20, 25, and 45-horse power.

### I H C Two-Cylinder Vertical Engines

I H C two-cylinder vertical gas and gasoline engines have many advantages over other forms of power for machine shops, factories, electric light plants, water works, etc.

Low cost of fuel per horse power generated.

Low cost of operation and maintenance.

Facility for quick starting.

Economy of space. No standby losses.

The close regulation, economy, reliability, and durability of I H C engines has earned for them a place in the world unapproached by any other engines.

Sizes, 25 and 35-horse power.

### I H C Combination Outfits

I H C engines are made in many desirable combination outfits as follows:

Portable sawing outfits, 3, 4, 6, 8, and 10-horse power.

Spraying outfits, 1 and 2-horse power.

I H C 2-horse power pumping engine.

I H C 3, 4, and 6-horse power hay baler.

I H C 4 and 6-horse power self-contained thresher.

See the nearest I H C local dealer, or write direct for catalogues.

LOOK FOR THIS TRADE MARK ON THE GENUINE

## International Harvester Company of America

(INCORPORATED)

**230 Harvester Building** **CHICAGO U S A**

LOOK FOR THIS TRADE MARK ON THE GENUINE

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KEWANEE—Kewanee Water Supply Co.
NORTH CHICAGO—North Chicago Machine Co. (Gas)
PERU—Brunner Foundry & Machine Co.
PLANO—Independent Harvester Co. (Air Cooled, 3 H. P. Gasoline)
ROCKFORD—Rockford Engine Works (Stationary & Portable, 2 to 30 H. P.)
Savage & Love Co. (Gas & Gasoline)
SHELBYVILLE—Anderson Engine Co.
STERLING—Charter Gas Engine Co. (Gas & Gasoline)
WARNER—Warner Elevator Mfg. Co. ("Warner" Gasoline)

## INDIANA.

ANDERSON—Anderson Tool Co. (Gas)
Buckeye Mfg. Co. (Gas & Gasoline)
Lamber Gas & Gasoline Engine Co. (½ to Reliable Machine Co. 40 h. p.)
ANGOLA—Angola Engine & Foundry Co.
CONNERSVILLE—Wainwright, W. W. & Son
EAST CHICAGO—Famous Mfg. Co.
FORT WAYNE—Ft. Wayne Foundry & Machine Co. (Gas & Gasoline)
GOSHEN—Goshen Motor Works
Oswald Motor Co.
HAGERSTOWN—Light Inspection Car Co.
INDIANAPOLIS—Atlas Engine Works (2 to 30 Capital Gas Engine Co. ("Gem") h. p.)
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 140 S Meridian. (See adv. index, end of book)**
Howe Engine Co. (Gasoline)
KENDALVILLE—Flint & Walling Mfg. Co. (Gasoline)
LOGANSPORT—Western Motor Co. ("Ruten-
MISHAWKA—Perkins Windmill Co. ber")
MUNCIE—Muncie Gas Engine & Supply Co. ("Auglaize" Gas)
NEW ALBANY—Goetz-Coleman Mfg. Co. (Gas
PERU—Model Gas Engine Wks & Gasoline)
PLAINFIELD—Vaughn Mfg. Co.
PLYMOUTH—Clizbe Bros. Mfg. Co.

## IOWA.

CEDAR RAPIDS—Cedar Rapids Foundry & Machine Co.
CHARLES CITY—Hart-Parr Co. (Oil Cooled Gasoline)
CLINTON—Lamb Boat & Engine Co. (Gas)
DAVENPORT—Schmidt Bros. Co. (Gasoline)
White Lily Mfg. Co. ("White Lily" Gaso-
DES MOINES—Monarch Machine Co. line)
IOWA FALLS—Gade Bros. Mfg. Co. (Air Cooling, Gasoline)
LYONS—Pelton Gasoline Engine Works (Gasoline)
MARSHALLTOWN—Lennox Machine Co. (Sta-
Shorthill, A. E. Co. tionary & Mounted)
WATERLOO—Armstrong-Quam Mfg. Co. (Gaso-
Associated Foundry Mfg. Co. (Gas) line)
Galloway, Wm. Co. ("Galloway," Gasoline)
Iowa Gasoline Engine Co. (Gasoline)
Litchfield Mfg. Co. (Air Cooled, Gas, to 24 h. p.)
Waterloo Gasoline Engine Co. (Gasoline)

## KANSAS.

FORT SCOTT—Eagle Foundry & Machine Co.
KANSAS CITY—Badger Gas & Gasoline Engine Co. (Gas & Gasoline)

## KENTUCKY.

**LOUISVILLE—FAIRBANKS, MORSE & Co. (Gas & Gasoline for All Purposes), 519 Main. (See adv. index, end of book)**
Longest Bros. Co. (Gasoline)
NEWPORT—Dean Mfg. Co. (Gas)
WINCHESTER—Hagans Gas Engine & Mfg. Co. (Gas)

## MAINE.

AUGUSTA—Fifield Bros.
BATH—Bath Automobile & Gas Engine Co. (Gas)
Torrey Roller Bushing Works
CAMDEN — Camden Anchor-Rockland Machine Co. (Gasoline)
EAST BOOTHBAY—Boothbay Gas Engine Co.

## MARYLAND.

BALTIMORE—Bauers Bros.
Eisenbrandt, F. B. (Marine Gasoline), ft of Marshall
Harms Bros ("Eclipse" Marine), 902 Ann
Hollingsworth, Wm., 227 N. Holliday
Page Eng. Co. (Gas & Gasoline), 119 E York
White & Middleton Gas Engine Co. (Gas & Gasoline, 5 to 400- H. P.)

## MASSACHUSETTS.

ABINGTON—Lamson Machine Co.
BOSTON—Jager, Chas. J. Co. ("Jager," 4 Cycle Type, 3 to 60 h. p.), 281 Franklin
Lunt, Moss & Co. (Gas & Gasoline), 43 S Market
Murray & Tregurtha Co., 338 W 1st, S. B.
Sturtevant Mill Co., Clayton cor Park, Dor.
FALL RIVER—Belcher Motor Co.
Mechanics' Foundry & Machine Co. (Ma-
FITCHBURG—Wachusett Machine Co. rine)
LAWRENCE—Stanley Co. (Gasoline Marine
LYNN—Essex Engine Co. Motors)
QUINCY—Lizotte, Jos. & Co. (Gasoline)
WOLLASTON—Emery, Victor J. (Marine Gas)
WORCESTER—Adams, Jno. J. (Gas & Gasoline)
Greendale Gas Engine Co. (Gas & Gasoline)
Knight, Ethel O.

## MICHIGAN.

ALBION—Cook Mfg. Co. (Gas & Gasoline)
ALMA—Alma Mfg. Co. ("McVicker" Automatic Gasoline)
ANN ARBOR—Ann Arbor Marine Engine Co. (Marine)
BATTLE CREEK—Kneeland Mfg. Co.
BAY CITY—General Machinery Co.
Pierce-Budd Co.
BELDING—Ballou Mfg. Co.
COLDWATER—Regal Gasoline Engine Co. (Gasoline)
DETROIT—Caille Perfection Motor Co. (Marine & Stationary Gasoline)
Concrete Form & Engine Co. (Marine & Stationary)
Detroit Engine Works (Gasoline 2 to 8 H. P.)
Detroit Engineering Works, cor Chene & Detroit River Iron Works Guoin
Dingfelder Motor Co. (Gasoline)
**FAIRBANKS, MORSE & CO. (Gas & Gasoline, for All Purposes), 89 Jefferson. (See adv. index, end of book)**
Ford Motor Co. (2 & 4 Cylinder)
Free Piston Gas Engine Co., 1867 River
Gemmer Mfg. Co. (Gasoline, Auto, etc.)
Gray Motor Co. (Gasoline, 1, 2 & 3 Cylinders), 3 to 30 H. P.)
Lamont & Steers Engine Co.
Lozier Motor Co. ("Lozier," 2 & 4 Cycle)
Michigan Auto Parts Co. (Gasoline, 4 to
Michigan Steel Boat Co. 10 h. p.)
Pungs-Finch Auto & Gas Engine Co. ("King," "Sintz," 2 & 4 Cycle, 4 to 75 h. p.)
Sibley-Hufley Machine Co. (Marine & Sta-
Strelinger, Chas. A. Co. (Gas) tionary)
Strelinger Marine Engine Co.
FLINT—Fleetwood Engineering Co.
GRAND RAPIDS—Grand Rapids Gas Engine & Yacht Co. ("Monarch")
Sintz, Wallin Co.
GREENVILLE—Moore Plow & Implement Co. ("Moore" Gasoline)
HILLSDALE—Alamo Mfg. Co. (Gas & Gaso-
IONIA—Arnold, G. W. Son (Gasoline) line)
JACKSON—Field-Brundage Co. ("Field" Gaso-
KALAMAZOO—Burtt Mfg. Co. line)
Kalamazoo Railway Supply Co. (Gasoline Pumping)
Michigan Automobile Co. (Ltd.) (Gasoline)
Smith & Pomeroy Wind Mill Co.
LANSING—Bates & Edmonds Motor Co. (Also Direct Connected)
Bellfuss Motor Co. (Gas)
Brown, W. G.
Hildreth Mfg. Co. ("Novo" Water Cooled Especially Adapted for Concrete Mixers,
Ideal Motor Co. (Gasoline) etc.)
Lansing Motor & Pump Co. (Gasoline)
New-Way Motor Co. (Gasoline, 3½ to 7
Peerless Motor Co. H. P.)
Seager Engine Works ("Olds" Stationary & Portable)
MANCELONA—Eclipse Motor Co.
MARCELLUS—Chapman Forge & Engine Works ("Economizer")
MARQUETTE—Lake Shore Engine Works ("New Superior 2 & 4-Cycle)
MUSKEGON—Continental Motor Mfg. Co.
Racine Boat Mfg. Co.
PETOSKEY—Burnett Fdry, & Machine Works
SAGINAW—Heginbottom, Sam'l H. (Marine)
National Engineering Co. ("New Model" & "Michigan," Stationary Power, 2 to 50 h. p.)
ST. JOHNS—Richmond & Holmes (Gas & Gasoline)
ST. JOSEPH—Spaulding Engine Co. (2-Cycle Gasoline, Marine)
Truscott Boat Mfg. Co. (Gasoline, Marine)
SPARTA—Holm's Machine Mfg. Co.
THREE RIVERS—Sheffield Car Co.

## MINNESOTA.

DULUTH—Duluth Gas Engine Works ("Little Giant")
FAIRMONT—Fairmont Machine Co. ("Fairmont" Gasoline)
HASTINGS—Stroud-Humphrey Mfg. Co.
MINNEAPOLIS—Enterprise Machine Co. (Gasoline), 1118 S 3d
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 220 Nicollet av. (See adv. index, end of book)**
Kinnard-Haines Press Co.
Minneapolis Brass & Iron Mfg. Co. (Gasoline)
**MINNEAPOLIS STEEL & MA-**chinery Co. ("Muenzel," Gas; 30 to 500 h. p.), Minneapolis, Minn. (See adv. North Star Mfg. Co. index, end of book)
Parten-Blomstrom Mfg. Co.
Shadegg, J. C., Engine Co., 315 S 3d
Valentine Bros. Mfg. Co. (Gasoline), 230 S
NORTHFIELD—Spear, L. E. 5th av
ST. PAUL—Auto Engine Works (Marine Gasoline)
Stickney, Chas. A. Co. (Gas & Gasoline)
Waterous Engine Works Co. (Gasoline)
WINONA—Winona Machine & Boat Works (Motor Boat)

## MISSOURI.

CLINTON—Industrial Iron Works
KANSAS CITY—Bauer Machine Works Co.
Jones Bros. Mercantile Co. ("Samson")
Kansas City Hay Press Co. (Stationary & Portable)
Mathews, Hugh, 5th & Washington
Sheffield Gas Power Co. ("Weber")
Witte Iron Works Co. (Gas & Gasoline)
ST. LOUIS—American Scale & Gas Engine Co., 1401 N B'way
Crescent Marine Motor Co., 116 Ferry
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 8th & St. Louis Gas & Gasoline Engine Co., 2615 De Kalb**
Sinning, Chas., Machine Works (Gas & Gasoline), 244 Dickson

## NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co.
LINCOLN—Cushman Motor Co. (2-Cycle Gasoline)
NORFOLK—Norfolk Foundry & Mfg. Co. (Gasoline)
OMAHA—**FAIRBANKS, MORSE & CO.** Gas & Gasoline for All Purposes), 1102 Farnam. (See adv. index, end of book)

## NEW HAMPSHIRE.

LAKEPORT—McDuff, Wm. J.

## NEW JERSEY.

BLOOMFIELD—Empire Cream Separator Co. ("Empire," Two Cycle, 1½ to 3 h. p.)
BORDENTOWN—Rice Gas Engine Co. ("Rice" Marine, Gas)
BRIDGETON—Hettinger Engine Co.
HARRISON—**WALSH'S SONS & CO. (See adv. index, end of book)**
JERSEY CITY—Standard Motor Const. Co. (75 h. p. up), 182 Whiton
NEWARK—Backus Water Motor Co. (Gas & Gasoline), 174 Penn av
Hartig Standard Gas Engine Co. (Gas & Gasoline), 14 Commercial
Newark Gas Engine Co., 676 N 6th
Rotary Internal Combustion Engine Co. (Explosive Engines)
Seitz, F. A. Co. (For Autos & Motor Boats)
PATERSON—Sipp Machine Co. (½ to 1 h. p.)
PENNGROVE—Homan, Vandever S.
TRENTON—Butterworth, W. H. & Bro.
Reeves Engine Co. (Marine)
Trenton Engine Co. (Producer Gas)
Trenton Malleable Iron Co. ("Rice" 2 & 4-cycle)

## NEW YORK.

BELMONT—Clark Bros. Co. ("Bogart," Heavy)
BINGHAMTON—Canfield, P. B. (Gas)
Deyo-Macey Engine Co. (Gas)
Deyo, R. H. & Co. (Gas)
BUFFALO—Alberger, A. H., Co. (4-Cycle, 2-Cylinder, Tandem, Gas & Gasoline, 25 to 250 h. p.), Ellicott sq
Buffalo Engine Co. (Salisbury), 14 Perry
Buffalo Gasoline Motor Co., 1280 Niagara
Eisenhans Machine Works (Gas & Gasoline)
Empire Machine & Stamping Co.
Farrar & Trefts (Gas)
Frontier Engine Works, ft. of Illinois
King Iron Works (Gas)
Lake Erie Engineering Works (100 to 10,000
Lazier Gas Engine Co. h. p.)

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Littlefield, Henry W.
Niagara Gasoline Motor Co. ("Niagara," Marine Motors)
Noye Mfg. Co. (Gas) 50 Lakeview av.
Olin Gas Engine Co. (Gas & Gasoline)
Robertson Mfg. Co. (Gas), 1453 Niagara
Ruger, J. W., Mfg. Co. (Gas & Gasoline, 4-Cycle Compression Type, 5 to 100 h. p.)
Sterling Engine Co. (Gas)
CANASTOTA—Cady, C. N. Co.
ELMIRA—Field Force Pump Co.
FRANKFORT — Acme Road Machinery Co.
GASPORT—Friend Mfg. Co. (Gasoline)
Gasport Motor Co.
GENEVA—Fay & Bowen Engine Co. (Gas & Gasoline, 2-Cycle Stationary & Marine)
GREENPORT—Gaffga, J. S. & Co.
HAMMONDSPORT—Curtiss, G. H. Mfg. Co.
HOOSICK FALLS—Wood, Walter A. Mowing & Reaping Machine Co. (Gasoline, Farm)
MALONE—Hinds, Thomas Co. (Gasoline)
NEWBURGH—Lackawanna Mfg. Co. "Lackawanna" Marine Motors)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—National Meter Co., 42d, c 1st av
Saladin, Louis & Co., 1241 DeKalb av

### Boroughs of Manhattan & Bronx.

**NEW YORK — ALLIS-CHALMERS CO.** (Gas Only, Four-Cycle Double-Acting, 500 to 5,000 H. P.), 71 B'way. (See adv. index, end of book)
Allman Gas Engine & Mach. Co., 461 Canal
**AMERICAN WELL WORKS (Gasoline)**, 2 Stone. (See adv. index, end of book)

**JAMES BEGGS & CO.**
**(Gas & Gasoline, Horizontal & Vertical Engines), Liberty & Church, New York**
Calleson Motor Co. (Gas), 120 Centre
**CLAYTON AIR COMPRESSOR** Works (Gas Only), B'way & Cedar. (See adv. index, end of book)
De La Vergne Machine Co. ("Koerting" Gas), ft E 138th
Emeny, G. J. Co. ("Parker"), Fulton
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 30 Church.** (See adv. index, end of book)
Gas Engine & Power Co. & Chas. L. Seabury & Co. ("Speedway" Gasoline), Morris Heights
**Homan, J. & E. (Gas & Gasoline), 378 W B'way**
Kumberger Gas Engine Co. (Gas & Gasoline), 35 Sullivan
Loomis, F. W., 403 Canal of book)
**National Meter Co. ("Nash" Gas & Gasoline), 84 Chambers**
N. Y. Safety Steam Power Co., 95 Liberty
**New York Yacht, Launch & Engine Co. ("20th Century"), Morris Heights**
**POWER & MINING MACHINERY** Co. ("American Crossley" Gas Engines), B'way & Cedar. (See adv. index, end of book)
**SNOW STEAM PUMP WORKS,** B'way & Cedar. (See adv. index, end of book)
**Thompson, Andw. (Gas & Gasoline), 114 Centre**
White Mfg. Co. ("The Craig," Gas & Gasoline), 556 W 34th

### (End of New York City)

NORTH TONAWANDA—Herschell-Spillman Co
NUNDA—Foote Mfg. Co.
OLEAN—Myrick Machine Co. (Gas)
OWEGO—**LEADER IRON WORKS,** ("Leader," "Domestic"). (See adv. index, end of book)
ROCHESTER—Beers Bros. (Gasoline)
Brownell, F. A. Motor Co. (Gas)
Elbridge Engine Co. (Marine & Stationary)
Horton Boat Engine & Supply Co.
Rochester Gas Engine Co.
Trebert, H. L. F. ("Monarch")
SCHENECTADY—Westinghouse Co.
SYRACUSE—Barber Bros.
Brown, B. F. Gas Engine Co.
Leighton, H. J.
Syracuse Gas Engine Co. (Gasoline)
VERNON—Pohl, Geo. D. Mfg. Co. ("Advance" Gasoline)

## NORTH DAKOTA.

FARGO—Fargo Foundry Co. (Gasoline Only)

## OHIO.

BLUFFTON—Althaus, Ewing & Co.
Diller Mfg. Co.
BUCYRUS—Hall Gas Engine Co.
BYESVILLE—Hall Gas Engine Mfg. Co.
CINCINNATI—Berghausen Machine Co., 601 Lock
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 307 Walnut.** (See adv. index, end of book)
Lane & Bodley Co. (Gas)
Van Duzen, E. W. Co. (Gas & Gasoline), 428 E 2d
Watkins Motor Co. (Gas & Gasoline)
CLEVELAND—Bruce-Macbeth Engine Co. (S to 300 H. P.)
De Mooy Bros. (Marine Gasoline), 1831 E 55th
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 99 Water.** (See adv. index, end of book)
Loew Mfg. Co. (Marine)
Standard Pump & Engine Co. (Gas)
**STRONG, CARLISLE & HAMMOND** Co., 336 Frankfort av, N. W. (See adv. index, end of book)
COLUMBUS—Columbus Machine Co. (Gas & Gasoline), 223 W Broad
Lowe Bros. ("Lowe," Gas & Gasoline, 1½ to 400 h. p.)
DAYTON—Callahan, W. P. Co. (Up to 200 h. p.)
Dayton Pitless Scale Co., Dayton, O.
New Era Gas Engine Co. ("Little Giant" & New Era"), 2d & Dale av
Steiner, M. & Co. (Gas), 242 S Torrance
DELAWARE—Cook Motor Co.
EAST LIVERPOOL—Pittsburg Engine & Machine Co. ("Cawood" & "Scott")
EATON—Eaton Gas Engine Co.
ELYRIA—Elyria Gas Power Co.
GALION—Galion Iron Works Co.
GREENVILLE—Ross Supply Co. (Gasoline)
Wogoman Mfg. Co. (Gas & Gasoline)
HAMILTON—Advance Mfg. Co. (3 to 35 h. p.)
KENTON—Kenton Gas Engine Co.
LIMA—Buckeye Machine Co. (Gasoline, up to 12 h. p.)
MANSFIELD—Fernyak, Stavenik Machine Co.
MARIETTA—Pattin Bros. Co. (Gas) (Gasoline)
MASSILLON—Russell & Co. (Traction)
MIDDLETOWN—Middletown Machine Co. ("Woodpecker," "Miami")
MOUNT VERNON—Cooper, C. & G. Co. (150 to 3000 H. P.)
Reeves Engineering Co. (Triple Cylinder)
ST. MARYS—St. Marys Machine Co. (Gas & Gasoline)
SALEM—**BUCKEYE ENGINE CO. (Gas,** Only; Horizontal, Snigle & Double Acting, Operated on Natural, Producer & Artificial Gas, Direct Connected or Belted; 60 h. p. Up). (See adv. index, end of book)
SANDUSKY—Ohio Motor Co. (Gas & Gasoline, Stationary & Portable)
Roberts Motor Co. (Marine Gasoline)
Vim Motor Co.
SPRINGFIELD—Bauer Bros. Co. (Gasoline, 1 to 15 h. p.)
Bauroth Bros. (Gas & Gasoline, 2 to 15 h. p.)
Foos Gas Engine Co. (Gasoline, 1½ to 500 h. p.)
Miller Improved Gas Engine Co. (Heavy Duty Gas, 35 to 250 h. p.)
Springfield Gas Engine Co. (Gas & Gasoline)
Superior Gas Engine Co. ("Superior" Tandem, 100 to 200 H. P., Single Cylinder
TOLEDO—Jones, S. M. Co. 5 to 100 h. p.)
Rathburn-Jones Engineering Co.
Universal Machine Co. (Gasoline Marine)
TROY—Hobart Electric Mfg. Co.
UPPER SANDUSKY—Ohio Mfg. Co.
YOUNGSTOWN—Tod, Wm. Co. (Gas in Units, from 300 to 5000 h. p.)

## OKLAHOMA.

BARTLESVILLE — Frick - Reid Supply Co. ("Reid" Gas)

## OREGON.

PORTLAND—Columbia Gas Engine & Safe Works
**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 1st & Stark.** (See adv. index, end of book)

## PENNSYLVANIA.

ALLENTOWN—Nadig, Chas. H. Mfg. Co. (Gasoline)
BRADFORD—Blaisdell Machinery Co. (Gas)
Bovaird & Co. (Gas & Gasoline)
Boviard & Seyfang Mfg. Co. (Gas)
Flickinger Iron Works (10 to 50 H. P.
BUTLER—Evans Mfg. Co. (Gas)
Palm Gas Engine Co. (Gas)
CHESTER—Chester Engineering & Machine Co. ("Penn" Marine Gasoline, 4 to 60 h. p.)
CORRY—Ajax Iron Works (Gas & Gasoline, 4 to 125 h. p.)
DUBOIS—Dubois Iron Works (5 to 300 h. p.)
EDDYSTONE—Pennsylvania Iron Works Co.
ERIE—Bay State Iron Works (Marine)
Fulton Engine Co.
GROVE CITY—Bessemer Gas Engine Co. (Gas)
LANCASTER—Lancaster Machine & Structural Works (of Camden, N. J.)
LANSDALE—Heebner & Sons (Gasoline, Stationary & on Wheels)
NEW BRIGHTON—Pittsburg Machine Co.
NEW HOLLAND—New Holland Machine Co. (Gasoline)


# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

**Hendricks' Commercial Register**


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OIL CITY—Holbeck-Riverside Gas Power Co. ("Riverside," High Duty, 10 to 2500 h. p.)
Oil City Boiler Works (Inc.), (Gas)
PHILADELPHIA—Hall Gas Engine Co., 4821 Garden bldg
Otto Gas Engine Works (Gas & Gasoline), 33d & Walnut
Phila. Gas Power Machinery Co., N. Front & Indiana
Vulcan Gas Engine Works ("Vulcan"), 1727 Ludlow, Phila., Pa.
Williamson Motor Co., Harrison bldg
PITTSBURG—**AMSLER, WALTER O.,** Wabash bldg. (See adv. index, end of book)
Davison, N. C. Co. (Gas), Keenan bldg
Keystone Machine Co. ("Ben-Hur")
Mesta Machine Co. (Double Acting Gas)
National Gear Wheel Foundry ("Mertes" Duplex, Gas), North Side
**OIL WELL SUPPLY CO. (Gas), 215** Water. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.) (Gas),** Empire bldg. (See adv. index, end
Turner-Fricke Mfg. Co. of book)
**WESTINGHOUSE MACHINE CO.,** The (10 to 10,000 h. p.), Westinghouse bldg. (See adv. index, end of book)
READING—Reading Oil & Gas Engine Co.
SCOTTDALE—Scottdale Foundry & Machine Co.
SHIPPINSBURG—Domestic Engine & Pump Co.
TITUSVILLE—Titusville Iron Co.
WARREN—**JACOBSON MACHINE MFG.** Co. (See adv. index, end of book)
**STRUTHERS-WELLS CO. ("Warren," Vertical & Tandem Gas)**
WAYNESBORO—Geiser Mfg. Co. (Gasoline)
WILLIAMSPORT—Moltz, Jacob J.
WRIGHTSVILLE—Dissinger, C. H. A. & Bro. Co.
YORK—Flinchbaugh Mfg. Co. (Gas & Gasoline)
Henry, Millard & Henry Co. ("Advance," 2 to 15 h. p.)

## RHODE ISLAND.

NEWPORT—Newport Engineering Works
PROVIDENCE—American & British Mfg. Co. (Gas & Gasoline in Quantities Only)
Providence Engineering Works
Rhode Island Motor Car Co.

## TEXAS.

AUSTIN—Tips Foundry & Machine Co.
DALLAS—**AMERICAN WELL WORKS** (Gasoline). (See adv. index, end of book)

## VERMONT.

MIDDLETOWN SPRINGS—Gray's, A. W. Sons
POULTNEY—Ruggles Machine Co.
WATERBURY—Cooley Mfg. Co. (Gasoline)
WESTMINSTER STATION—Abenaque Machine Works (Gas & Gasoline)

## VIRGINIA.

NORFOLK—Chesapeake Launch & Motor Co.
Wallace Bros. (Gas)
RICHMOND—Richmond Mfg. Co. (Inc.) ("Little Wonder" Gasoline)

## WASHINGTON.

SEATTLE—Palmer Bros. (Marine)
TACOMA—Puget Sound Iron & Steel Works (Gasoline)

## WISCONSIN.

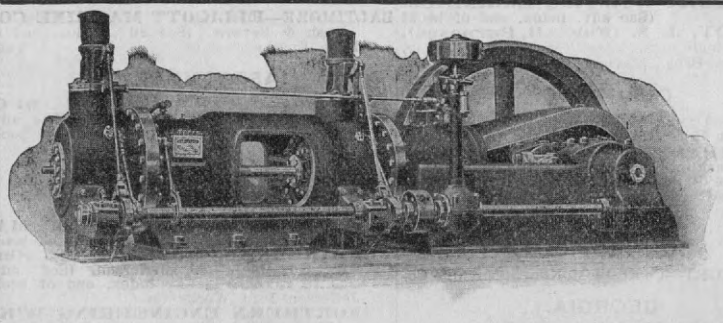
APPLETON—Eagle Mfg. Co. (Gasoline)
BELOIT—Odee & Koto Mfg. Co.
Thompson, J. & Sons Mfg. Co. ("Original Lewis" Gas & Gasoline, 1½ to 300 H. P.)
BERLIN—Schaefer Mfg. Co.
CORLISS—Wisconsin Engine Co. (Gas, up to 5000 h. p.)
CUDAHY—Power & Mining Machinery Co. ("American Crossley" Gas Engines)
DE PERE—Lauson-Lawton Co. ("Wisconsin" 2½ to 20 h. p.)
EAU CLAIRE—Northwestern Steel & Iron Works (Gasoline)
EVANSVILLE—Baker Mfg. Co. (Gasoline)
FOND DU LAC—Clark Mfg. Co.
Hass, H. E., Gas & Gasoline Works (Gas & Quentin, Peter N. (Gas) Gasoline)
LA CROSSE—Benton, Thos. P. & Son (Gasoline, Marine)
MADISON—Fuller & Johnson Mfg. Co. (Gasoline, Water & Oil Cooled & Frost Proof)
MANITOWOC—Richards Iron Works
MENOMONIE—Globe Iron Works Co. ("White" Gasoline, Stationary, Portable, Marine & Electric Light)
MENOMONEE FALLS—Rowell, I. B. Co. (Gasoline)
MILWAUKEE—**ALLIS-CHALMERS CO.** (Gas Only, Producer, Natural & Furnace Gas, Four-Cycle Double-Acting, 500 to 5000 h. p.) (See adv. index, end of
Beaver Mfg. Co. book)
Davis Mfg. Co.
**FILER & STOWELL MFG. CO.** ("Beaver" Gasoline) (See adv. index, end of book)
Milwaukee Auto Engine & Supply Co.
Milwaukee Machinery Co. (Gasoline)
Milwaukee Motor Co.
Toepfer's, Frank Sons, 460 National av
NEW HOLSTEIN—Lauson, John, Mfg. Co. (Gas & Gasoline)
NORTH MILWAUKEE—Wisconsin Motor Mfg. Co.
OSHKOSH—Doman, H. C. Co. (Stationary & Marine)
Tremaat & Monahan Co. (Stationary & Marine)
PORT WASHINGTON—Gilson Mfg. Co. (Gasoline, Small for Creameries, Washing Machines, etc.)
Turner Mfg. Co. ("Simplicity")
RACINE—Holbrook-Armstrong Iron Co. (4 to 6 Cylinder Gasoline for Automobiles)
Pierce Motor Co. (Gas & Gasoline)
Racine Tool & Machine Co.
Reliance Iron & Engine Co. (Gas & Gasoline)
Wabers, H. H. Mfg. Co. (Gas & Gasoline)
SHEBOYGAN—Globe Foundry & Machine Co. (Gasoline 1½ to 16 h. p.)
SUPERIOR—Duplex Mfg. Co. (Gasoline)
WAUKESHA—Waukesha Motor Co. (Auto Motors)

## 3354—Engines (Gas & Steam, Rebuilt)

**MARION MACHINE, FOUNDRY &** Supply Co., Marion, Ind. (See adv. index, end of book)

## 3355—Engines (Greenhouse & Garden)

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

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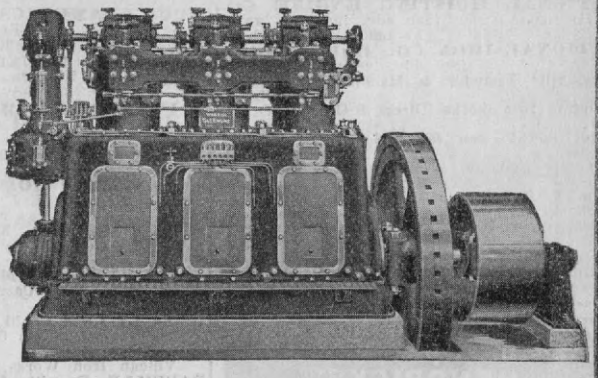
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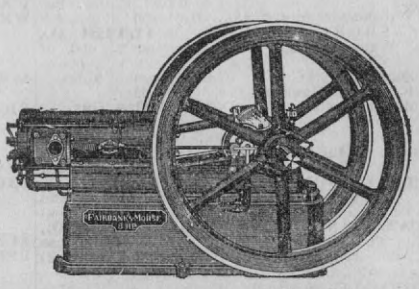

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## 3356– Engines (Haulage)

**AMERICAN HOIST & DERRICK CO.** (Double & Single Friction Drum), St. Paul, Minn. (See adv. index & branch offices, end of book)
Chase Machine Co. (Docking & Hauling Cars) etc.), Cleveland, O.
**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)
Crawford & McCrimmon Co., Brazil, Ind.
Danville Foundry & Machine Co., Danville, Ill.
**DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)**
Eagle Iron Works, Des Moines, Ia.
Finch Mfg. Co., Scranton, Pa.
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Galion Iron Works Co., Galion, O.
Griffith & Wedge Co., Zanesville, O.
Herron-Webb Engineering Co., Monongahela, Pa.
**LAMBERT HOISTING ENGINE CO.,** 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Litchfield Foundry & Machine Co. (Endless rope, tail rope), Litchfield, Ill.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
**MEAD-MORRISON MFG. CO. (Twin** Drum Tail Rope), Cambridge, Mass. (See adv. index & branch offices, end of book)
Milholland, J. & J. B. Co. (Endless Rope), 718 5th av, Pittsburg, Pa.
**MONIGHAN MACHINE CO., 2034 Carroll av, Chicago, Ill.** (See adv. index, end
Mullen, Jno. & Son, Shamokin, Pa. of book)
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
Nelsonville Foundry & Machine Co., Nelsonville, O.
Ottumwa Iron Works (Direct & Geared), Ottumwa, Ia.
Puget Sound Iron & Steel Works, Tacoma, Wash.
Scottdale Foundry & Machine Co., Scottdale, Pa.
Stine, J. C. Co., Tyrone, Pa.
Stine, S. B., Osceola Mills, Pa.
Stroh, W. H. (Est. of), Mauch Chunk, Pa.
Superior Iron Works Co. (Cable Haulage with Endless Rope), Superior, Wis.
Vulcan Iron Works, Wilkes-Barre, Pa.
Wellman-Seaver-Morgan Co., Cleveland, O.
Wickes Bros., Saginaw, Mich.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 3357– Engines (Hoisting)

(See also Engines, Hoisting, Gas & Gasoline)

### ALABAMA.

BIRMINGHAM—Hardie-Tynes Mfg. Co.

### ARIZONA TERRITORY.

NOGALES—Roy & Titcomb (Inc.)

### CALIFORNIA.

SAN FRANCISCO—**FAIRBANKS, MORSE & Co.** (Gas & Gasoline), 310 Market. (See adv. index, end of book)
Hendy, Joshua, Iron Works (Double Cylinder, etc.)
**LAMBERT HOISTING ENGINE CO.** (See adv. index, end of book)
**MUNDY, J. S. (For All Purposes),** 10 Beale. (See adv. index, end of book)
Murray Bros. Machine Works

### COLORADO.

DENVER—Davis, F. M. Iron Works Co.
Denver Engineering Works Co. (All Kinds)
**FAIRBANKS, MORSE & CO. (Gas** & Gasoline), 1600 17th. (See adv. index,
Mine & Smelter Supply Co. end of book)
Stearns-Roger Mfg. Co.
LITTLETON — Leyner, J. Geo. Engineering Works Co.

### CONNECTICUT.

BRIDGEPORT—Coulter & McKenzie Machine Co.

### GEORGIA.

MARIETTA—Glover Machine Works

### ILLINOIS.

CHICAGO—**AMERICAN HOIST & DER**rick Co. (of St. Paul, Minn), 17-21 Canal. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE** Co. (of Niagara Falls, N. Y.), 202 S Water. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO (Gas** & Gasoline), 481 Wabash av. (See adv. index, end of book)
Heyworth, James O. ("Heyworth"), Harvester bldg
**LAMBERT HOISTING ENGINE CO.** (of Newark, N. J.), Old Colony bldg. (See adv. index, end of book)
**LIDGERWOOD MFG. CO. (of New** York), Old Colony bldg. (See adv. index, end of book)
**MONIGHAN MACHINE CO. (All** Kinds), 2034 Carroll av. (See adv. index, end of book)
**SULLIVAN MACHINERY CO.** (Mine), People's Gas bldg. (See adv. index, end of book)
Vulcan Iron Works, 28 N Irving av
DANVILLE—Danville Foundry & Machine Co.
LITCHFIELD—Litchfield Foundry & Machine Co. (First Motion)

### INDIANA.

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**PERU—Model Gas Engine Works (13 to 100 H. P.)**

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DES MOINES—Eagle Iron Works
OTTUMWA—Ottumwa Box Car Loader Co.
Ottumwa Iron Works

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Page Engineering Co. book)

### MASSACHUSETTS.

CAMBRIDGE—**MEAD-MORRISON MFG.** Co. (Single & Double Drum) (See adv. index, end of book)

### MICHIGAN.

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Marine Iron Co.
DETROIT—**DETROIT HOIST & MA**chine Co. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (Gas** & Gasoline), 89 Jefferson. (See adv. index, end of book)
Jefferson Iron Works Co.
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**RUSSEL WHEEL & FOUNDRY CO.** (See adv. index, end of book)
GRAND HAVEN—Dake Engine Co.
MARQUETTE—Lake Shore Engine Works (Corliss & Slide Valve)
SAGINAW—Bartlett, A. F. & Co.
Jackson-Wilcox-Church Co.
Wickes Bros.

### MINNESOTA.

DULUTH—**CLYDE IRON WORKS. (See adv. index, end of book)**

Engines (Hoisting)
MANUFACTURED BY
CLYDE IRON WORKS
DULUTH, MINN.

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Imperial Iron Works (For Mines, etc.)
**NATIONAL IRON CO. (See adv.** index, end of book)
MINNEAPOLIS—**FAIRBANKS, MORSE &** Co. (Gas & Gasoline), 220 Nicollet av (See adv. index, end of book)
ST. PAUL—**AMERICAN HOIST & DER-**rick Co. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (Gas** & Gasoline), 234 E 3d. (See adv. index, end of book)

## MISSOURI.

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ST. LOUIS—Ellison, Wm. & Sons Mfg. Co.
**FAIRBANKS, MORSE & CO. (Gas** & Gasoline), 8th & Clark av. (See adv. index, end of book)
**LAMBERT HOISTING ENGINE CO.** (of Newark, N. J.), 715-717 N 2d. (See adv. index, end of book)
**MUNDY, J. S. (of Newark, N. J.), (For** All Purposes), 210 Wash'n av. (See adv. index, end of book)
Reliance Machine & Tool Works ("Reli
South St. Louis Foundry Co. ance")
SPRINGFIELD—United Iron Works Co. (For Coal Mines, etc.)

## NEW HAMPSHIRE.

CLAREMONT—Sullivan Machinery Co. (Corliss Valve Gear, Single & Double Drum)

## NEW JERSEY.

HARRISON—**NATIONAL HOISTING EN-**gine Co. (For All Purposes). (See adv. index, end of book)
**WALSH'S SONS & CO. (See adv.** index, end of book)
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**MUNDY, J. S. (For all Purposes),** 22 Prospect. (See adv. index, end of book)

## NEW YORK CITY.

### Boroughs of Manhattan & Bronx.

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**BROWN HOISTING MACHINERY** Co. (of Cleveland, O.), 50 Church. (See adv. index, end of book)
Contractors' Supply & Equip. Co., 170 B'way
**DOBBIE FOUNDRY & MACHINE** Co. (of Niagara Falls, N. Y.), 82 Warren. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (Gas** & Gasoline), 30 Church. (See adv. index, end of book)
**GODFREY-KEELER CO. (Mine &** Contractors), 70 Warren. (See adv. index, end of book)
**LAMBERT HOISTING ENGINE CO.** (of Newark, N. J.), 30 Church. (See adv. index, end of book)
**LIDGERWOOD MFG. CO., 96 Lib-**erty. (See adv. index, end of book)
**McCOY, HENRY J. CO., 65 & 67 Dey,** (See adv. index, end of book)
Mine & Smelter Supply Co., 42 Bway
N. Y. Cableway & Engineering Co., 90 West
Pelham Operating Co., 410 W 26th
**OTIS ELEVATOR CO. ("Otis,"** Single Drum, for Furnaces, Mines, etc.), 17 Battery pl. (See adv. index & branch offices, end of book)
**SULLIVAN MACHINERY CO. (Cor-**liss Valve Gear, Single & Double Drum), 42 B'way. (See adv. index & branch offices, end of book)

### Borough of Richmond.

WEST NEW BRIGHTON—Hunt, C. W. Co.

**(End of New York City)**

NIAGARA FALLS—**DOBBIE FOUNDRY &** Machine Co. (See adv. index, end of book)

## NORTH CAROLINA.

PINETOWN—Parker, Surry

## OHIO.

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Lane & Bodley Co. book)
CLEVELAND—**BROWN HOISTING MA-**chinery Co., 4403 St. Clair, N. E. (See adv. index, end of book)
Bruce-Macbeth Engine Co.
Chase Machine Co. (Reversible, etc.)
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Wellman-Seaver-Morgan Co., 7004 Central
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MARIETTA—Pattin Bros. Co.
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Vulcan Iron Works
WARREN—McMyler-Interstate Co.
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## OREGON.

PORTLAND—**FAIRBANKS, MORSE &** Co. (Gas & Gasoline), 1st & Stark. (See adv. index, end of book)
Phoenix Iron Works
Portland Iron Works
Willamette Iron & Steel Works

## PENNSYLVANIA.

BANGOR—**FLORY, S. MFG. CO. (All** Kinds for All Purposes). (See adv. index, end of book)
CHESTER—Chester Engineering & Machine Co. (Gasoline)
DANVILLE—Danville Foundry & Machine Co.
LEBANON—Weimer Machine Works Co. (For Furnaces & Mines)
MAUCH CHUNK—Stroh, W. H. (Estate of)
MONONGAHELA—Herron-Webb Eng. Co.
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**MEAD-MORRISON MFG. CO. (Sin-**gle & Double Drum), 112 N Broad. (See adv. index, end of book)
Morris, I. P. Co. (Mine), Beach c Ball
**MUNDY, J. S. (For All Purposes),** 1744 Market. (See adv. index, end of book)
Williamson Bros. Co. (Frictional Geared).
Cumberland & Aramingo av
PITTSBURG — **BROWN HOISTING MA-**chinery Co., Frick bldg. (See adv. index end of book)
**CARLIN'S, THOS. SONS CO., Oliver** bldg. (See adv. index, end of book)
**LAMBERT HOISTING ENGINE CO.** Lacock & Sandusky. (See adv. index, end of book)
Milholland, J. & J. B. Co.
**SULLIVAN MACHINERY CO. (Cor-**liss Valve Gear, Single & Double Drum), Farmers' Bank bldg. (See adv. index, end of book)
PITTSTON—**EXETER MACHINE WKS.** (See adv. index, end of book)
READING—Orr & Sembower
SCOTTDALE—Scottdale Fdry & Machine Co.
SCRANTON — **ALLIS-CHALMERS CO.** (See adv. index, end of book)
Finch Mfg. Co.
SHAMOKIN—Mullen, John & Son
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WILKES-BARRE—Vulcan Iron Works

## TENNESSEE.

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JACKSON—Southern Engine & Boiler Works

## WASHINGTON.

SEATTLE—Northwestern Iron Works
Washington Iron Works Co.
SPOKANE—**FAIRBANKS, MORSE &** Co. (Gas & Gasoline). (See adv. index, end of book)

## WISCONSIN.

CORLISS—Wisconsin Engine Co. (Large)
MILWAUKEE—**ALLIS-CHALMERS CO.** (See adv. index, end of book)
Filer & Stowell Co.
**KOEHRING MACHINE CO., Mil-**waukee, Wis. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER** & Machinery Co. (See adv. index & branch
Nordberg Mfg. Co. offices, end of book)
**SMITH, T. L. CO., THE, Majestic bldg.** (See adv. index, end of book)
SUPERIOR—Superior Iron Wks Co. ("Anchor")

## 3358—Engines (Hoisting, Contractors')

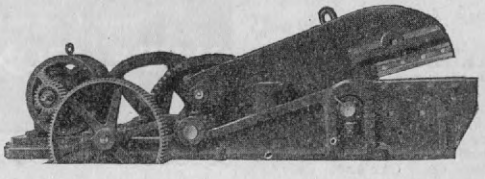
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**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
Baltimore Car & Foundry Co., Baltimore, Md.
Byers, John F. Machine Co., Ravenna, O.

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ENGINES (HOISTING CONTRACTORS)
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DULUTH, MINN.

**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Hendy, Joshua Iron Works, San Francisco, Cal.
Jarvis Engine & Machine Works (Electric & Gasoline Driven), Lansing, Mich.
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** N. Y., & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO. (Single** & Double Drum), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co., Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car-**roll av, Chicago, Ill. (See adv. index, end of book)
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
Orr & Sembower, Reading, Pa.
Patten Mfg. Co., Chattanooga, Tenn.
Pelham Operating Co., 410 W 26th, New York
Vulcan Iron Works Co., Toledo, Ohio.

## 3359—Engines (Hoisting, Gas or Gasoline)

Bates & Edmonds Motor Co., Lansing, Mich.
Charter Gas Engine Co., Sterling, Ill.
Chester Engineering & Machine Co., Chester, Pa.
Columbus Machine Co., Columbus, O.
**FAIRBANKS, MORSE & CO. (Gas,** Gasoline & Oil), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fort Wayne Foundry & Machine Co., Fort Wayne, Ind.
Hildreth Mfg. Co., Lansing, Mich.
**INTERNATIONAL HARVESTER CO.** of America, 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Lake Shore Engine Works Co. (Gasoline, Hoisting & Pumping), Marquette, Mich.
National Engineering Co., Saginaw, Mich.
Roy & Titcomb (Inc.), Nogales, Ariz.
Standard Gas Engine Co., Oakland, Cal.
Stickney, Chas. A. Co., St. Paul, Minn.
Union Gas Engine Co. ("Union"), San Francisco, Cal.
Waterloo Cement Mach'y Corp., Waterloo, Ia.

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**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)

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**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Lake Shore Engine Works (Geared), Marquette, Mich.
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car-**roll av, Chicago, Ill. (See adv. index, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)

## 3362—Engines (Incline Cableway)

**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
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## 3363— Engines (Jordan)

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Emerson Mfg. Co., Lawrence, Mass.
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Noble & Wood Mach. Co., Hoosick Falls, N. Y.

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(See Engines, Oil)

## Engines (Locomotive Traction)

(See Locomotives, Dirt Road)

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**LAMBERT HOISTING ENGINE CO.,** 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

## 3365— Engines (Logging)

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Best Mfg. Co. (Traction), San Leandro, Cal.
**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)

Engines (Logging)
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DULUTH, MINN.

**FAIRBANKS, MORSE & CO. (Gaso-**line, Kerosine, Oil, etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Hendy, J. Machine Works, San Francisco, Cal
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Lib-**erty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Lima Locomotive & Machine Co., Lima, O.
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**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car-**roll av, Chicago, Ill. (See adv. index, end of book)
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
Phoenix Iron Works, Portland, Ore.
Portland Iron Works Co., Portland, Ore.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Vulcan Iron Works, Wilkes-Barre, Pa.
Vulcan Iron Works Co., Seattle, Wash.
Washington Iron Works Co., Seattle, Wash.
Willamette Iron & Steel Wks., Portland, Ore.

## 3366—Engines (Marine, Gasoline)

(See also Engines, Automobile; also Engines, Gas or Gasoline; also Motor Boat, Launch & Yacht Builders)

Ann Arbor Marine Engine Co., Ann Arbor, Mich.
Austin Auto Co., Grand Rapids, Mich.
Automatic Machine Co. ("Automatic"), Bridgeport, Conn.
Barber Bros., Syracuse, N. Y.
Barker, C. L., Norwalk, Conn.
Bauers Bros., Baltimore, Md.
Beaver Mfg. Co., Milwaukee, Wis.
Belcher Motor Co. ("Belcher" 2-Cycle), Fall River, Mass.
Benton, Thomas P., & Son, La Crosse, Wis
Black Rock Machine Co., Bridgeport, Conn.
Boston Gas Engine Co. ("Reliance"), Boston, Mass.
Bowen & Quick ("Polly-Allen"), Auburn, N. Y.
Brennan Motor & Mfg. Co. (4-cylinder), Syracuse, N. Y.
Bridgeport Motor Co. (Inc.), Bridgeport, Conn.
Brown, B. F. Gas Engine Co., Syracuse, N. Y.
Brown-Talbot Machinery Co., Old South bldg, Boston, Mass.
Brownell, F. A. Motor Co. ("Monarch"), Rochester, N. Y.
Bruce-Macbeth Engine Co., Cleveland, O.
Buffalo Gasoline Motor Co. (2 to 100 h. p., 4 Cycle), 1280 Niagara, Buffalo, N. Y.
Burtt Mfg. Co. ("Kalamazoo"), Kalamazoo, Mich.
Caille Perfection Co. ("Perfection"), Detroit, Mich.
Camden Anchor-Rockland Machine Co. ("Knox"), Camden, Me.
Chester Engineering & Machine Co., Chester, Pa.
Clark Mfg. Co., Fond du Lac, Wis.
Clinton, Walter R. (2 to 60 h. p.), West Haven, Conn.
Clipper Lawn Mower Co. (2 to 8 h. p.), Dixon, Ill.
Concrete Form & Engine Co., Detroit, Mich.
Continental Motor Mfg. Co., Muskegon, Mich.
Cooley Mfg. Co., Waterbury, Vt.
Corliss Gas Engine Co., San Francisco, Cal.
Craig, James, 556 W 34th, New York
Cushman Motor Co., Lincoln, Neb.
Davis Mfg. Co., Milwaukee, Wis.
DeMooy Bros., Cleveland, O.
Delaware Machine Works (5 to 200 h. p.), Wilmington, Del.
Detroit Engine Works, Detroit, Mich.
Dingfelder Motor Co., Detroit, Mich.
Doman, H. C. Co., Oshkosh, Wis.
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Dundon's, F. P. San Francisco Iron Works, San Francisco, Cal.
Eclipse Motor Co., Mancelona, Mich.
Elbridge Engine Co., Rochester, N. Y.
Emeny, G. J. Co. ("Parker"), Fulton, N. Y.
Emery, V. J., Wollaston, Mass.
Enterprise Machine Co., Minneapolis, Minn.
Erd Motor Co. (Gas), Saginaw, Mich.
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**FAIRBANKS, MORSE & CO. (Gaso-**line, Kerosene & Oil), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
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Fay & Bowen Engine Co. (1½ to 60 H. P.) Geneva, N. Y.

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Fifield Bros. ("Capitol"), Augusta, Me.
Frontier Engine Works, Buffalo, N. Y.
Fulton Engine Co., Erie, Pa.
Gas Engine & Power Co., & Charles L. Seabury & Co. ("Speedway," also Naphtha), Morris Heights, N. Y.
Globe Iron Works Co. ("White"), Menomonie, Wis.
Goodell, Zina ("Naumkeag"), Salem, Mass.
Gorham Engineering Co., Alameda, Cal.
Grand Rapids Gas Engine & Yacht Co. ("Monarch"), Grand Rapids, Mich.
Gray Motor Co. (1, 2 & 3 Cylinder, 3 to 30 h. p.), Detroit, Mich.
Gray & Prior Machine Co. ("Hartford"), Hartford, Conn.
Great Lakes Engineering Works, Detroit, Mich.
Harms Bros. ("Eclipse") 902 Ann, Baltimore, Md.
Heinel, H. A. Co. ("Heinel," 4-Cycle, 5 to 35 h. p.), Wilmington, Del.
Herschell-Spillman Co., North Tonawanda, N.Y.
Hildreth Mfg. Co., Lansing, Mich.
Hitchcock Gas Engine Co., Bridgeport, Conn.
Holmes Motor Co. (4 Cycle), West Mystic, Conn.
Horton Boat Engine & Supply Co., Rochester, N. Y.
Hubbard Motor Co. (2 & 4-Cycle), Middletown, Conn.
Jager, Chas. J. ("Jager" 4-Cycle Type), 281 Franklin, Boston, Mass.
Kahlenberg Bros., Two Rivers, Wis.
Kneeland Mfg. Co., Battle Creek, Mich.
Kumberger Gas Engine Co., 33 Sullivan, New York
**Lackawanna Mfg. Co. (Valveless Reversible), Newburgh, N. Y.**
Lake Shore Engine Works ("New Superior" 2 & 4-Cycle), Marquette, Mich.
Lamb Boat & Engine Co., Clinton, Ia.
Landis, E. M. & Co., Toledo, O.
Lathrop, Jas. W. & Co., Mystic, Conn.
Leighton, H. J., Syracuse, N. Y.
Light Inspection Car Co., Hagerstown, Ind.
Loew Mfg. Co. ("Loew Victor"), Cleveland, O.
Lozier Motor Co. ("Lozier," 2 & 4-Cycle), Detroit, Mich.
**McCOY, HENRY J. CO., 65 & 67 Dey, New York.** (See adv. index, end of book)
Mechanics' Foundry & Machine Co., Fall River, Mass.
Mianus Motor Works, Mianus, Conn.
Michigan Auto Parts Co., Detroit, Mich.
Michigan Steel Boat Co. (Marine), Detroit, Mich.
Milwaukee Auto Engine & Supply Co., Milwaukee, Wis.
Montague Iron Works Co. (Gasoline), Montague, Mich.
Murray & Tregurtha Co., Boston, Mass.
New London Motor Co., New London, Conn.
N. Y. Yacht, Launch & Engine Co. ("20th Century"), Morris Heights, N. Y.
Niagara Gasoline Motor Co. ("Niagara"), Buffalo, N. Y.
Page Engineering Co. ("Oriole" Gas), Baltimore, Md.
Palmer Bros., Cos Cob, Conn.
Pennsylvania Iron Works Co. ("Globe"), Eddystone, Pa.
Rathburn-Jones Engineering Co. ("Ralaco," 4 to 100 H. P.), Toledo, O.
Racine Boat Mfg. Co., Muskegon, Mich.
Reeves Engine Co., Trenton, N. J.
Regal Gasoline Engine Co., Coldwater, Mich.
Royal Engine Co. ("Royal," 2 & 4 Cycle), Bridgeport, Conn.
St. Joseph Iron Works, St. Joseph, Mich.
Scripps Motor Co., Detroit, Mich.
Sibley-Houfley Machine Co. ("Peerless"), Detroit, Mich.
Spaulding Engine Co. (2-Cycle), St. Joseph, Mich.
Stamford Motor Co. (Inc.) ("Snecker"), Stamford, Conn.
Standard Gas Engine Co., Oakland, Cal.
Standard Motor Const. Co. (75 H. P. up), 182 Whiton, Jersey City, N. J.
Stanley Co., Lawrence, Mass.
Sterling Engine Co. (8 to 100 h. p. & 4 Cycle), Buffalo, N. Y.
Strelinger, Chas. A. Co. (Launch), Detroit, Mich.
Strelinger Marine Co., 48 E Fort, Detroit, Mich.
Syracuse Gas Engine Co., Syracuse, N. Y.
Temple Pump Co., 27 W. 15th Place, Chicago, Ill.
Termaat & Monahan Co. (Reversing), Oshkosh, Wis.
Thomas, E. R. Motor Co., Buffalo, N. Y.
Trenton Engine Co. (Gas, "Producer Gas"), Trenton, N. J.
Truscott Boat Mfg. Co., St. Joseph, Mich.
Union Gas Engine Co. ("Union"), San Francisco, Cal.
Waterman Marine Motor Co., Detroit, Mich.
Western Motor Co. ("Rutenber"), Logansport, Ind.
White & Middleton Gas Engine Co., Baltimore, Md.
Wisconsin Motor Mfg. Co., North Milwaukee, Wis.
Wolverine Motor Works (18 to 100 H. P. 4 cycle), Bridgeport, Conn.
Young, W. J. Machine Co. ("Essex"), 418 Union, Lynn, Mass.

## 3366a—Engines (Marine, Oil)

**BUSCH-SULZER BROS.-DIESEL ENGINE** Co. (75 to 800 h. p.), St. Louis, Mo. (See adv. index & branch offices, end of book)

## 3367—Engines (Marine Railway)

**MEAD-MORRISON MFG. CO. (Reversible** Compound Geared, etc.), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

## 3368—Engines (Marine, Steam)

(The names under this heading, other than advertisers, are omitted; they will be furnished on application. This trade is a duplication of Engines, Steam)

**BEGGS, JAMES & CO., Liberty & Church, New York**
**ELMES, CHAS. F. ENGINEERING** Works (Automatic Electric Light), Fulton c Sangamon, Chicago, Ill. (See adv. index, end of book)
**MORRIS MACHINE WORKS (1½ to** 350 H. P.), Baldwinsville, N. Y. (See adv. index & branch offices, end of book)
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)

## 3369—Engines (Mine Hoisting)

(See also Engines, Hoisting; also Engines, Hoisting, Gas & Gasoline; also Hoists; also Locomotives)

Denver Engineering Works Co. (Direct Acting), Denver, Colo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Imperial Iron Works, Duluth, Minn.
**LAMBERT HOISTING ENGINE CO.** Main Office and Works, 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Carroll av, Chicago, Ill.** (See adv. index, end of book)
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
Nordberg Mfg. Co. ("Nordberg" Hoisting Engines; Up to Any Capacity), Milwaukee, Wis.
**OTIS ELEVATOR CO. (Single Drum** Duplex Cylinder), 17 Battery pl, New York. (See adv. index & branch offices, end of book)
Stine, S. B. (Hoisting), Osceola Mills, Pa.

## 3370— Engines (Naphtha)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights, N. Y.

## 3371— Engines (Oil)

(See also Engines, Alcohol)

Alamo Mfg. Co. (Kerosene), Hillsdale, Mich.
American Oil Engine Co. (Kerosene), Danielson, Conn.
Ams, Max Machine Co. (Kerosene), Mt. Vernon, N. Y.
Atlas Engine Works (Kerosene & Coal Oil, 4 to 30 h. p.), Indianapolis, Ind.
**BUFFALO FOUNDRY & MACHINE** Co. (Fuel Oil), Buffalo, N. Y. (See adv. index, end of book)
**BUSCH-SULZER BROS.-DIESEL EN-**gine Co. (75 to 450 h. p.). St. Louis, Mo. (See adv. index & branch offices, end of book)
Charter Gas Engine Co. ("Sterling," Alcohol & Oil), Sterling, Ill.
Corliss Gas Engine Co., San Francisco, Cal.
De La Vergne Machine Co. ("Hornsby-Akroyd"), ft E 138th, New York
Detroit Engine Works (Kerosene & Coal Oil, 2 to 100 h. p.), Detroit, Mich.


Diesel Oil Engines

The World's Most Economical Prime Mover

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Uses Less Fuel Than Other Engines

We Guarantee In Contract:
Speed Regulation
Fuel Consumption at both, Half and Full Loads
Parallel Operation of Alternators

SIZES FOR STATIONARY WORK: 75, 120, 170, 225 and 450 B. H. P.

BUSCH-SULZER BROS.-DIESEL ENGINE CO.
ST. LOUIS, MISSOURI


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**FAIRBANKS, MORSE & CO.** (Kerosene or Crude Oil), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fay & Bowen Engine Co. (Kerosene), Geneva, N. Y.
Grand Rapids Gas Engine & Yacht Co. ("Monarch" Kerosene), Grand Rapids, Mich.
Hercules Gas Engine Works ("Hercules"), Alameda, Cal.
Imperial Gas Engine Co. (Crude Oil, up to 120 h. p.), San Francisco, Cal.
**INTERNATIONAL HARVESTER CO.** of America (Alcohol & Kerosene), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Meitz & Weiss (Gas or Kerosene), 134 Mott, New York
Moore, Saml. L. & Sons Corp. ("Crescent"), Elizabeth, N. J.
New York Kerosene Oil Engine Co. (Kerosene), College Point, N. Y.
Olds Gas Power Co. (Kerosene), Lansing, Mich.
Primm Oil Engine Co., Van Buren, Ind.
Reading Oil & Gas Engine Co. (Kerosene), Reading, Pa.
Remington Oil Engine Co. (6 to 40 h. p.), Stamford, Conn.
Rumely, M. Co. (Kerosene & Distillate, 30 to 60 h. p.), LaPorte, Ind.
St. Marys Machine Co., St. Marys, O.
Standard Gas Engine Co., Oakland, Cal.
Strang Engine Co. (Kerosene, 3, 5 & 7 h. p., 4-Cycle, Vertical Water Cooled), 140 Dearborn, Chicago, Ill.
Temple Pump Co. ("Master Workman," Kerosene, 1½ to 50 h. p., One, Two & Four Cylinder), 15th & Meagher, Chicago, Ill.
Union Gas Engine Co., Oakland, Cal.
Ziegler-Schreyer Mfg. Co. (Kerosene), Freeport, Ill.

## 3371a—Engines (Oil, Crude)

**BUSCH-SULZER BROS.-DIESEL ENG**ine Co. (75 to 800 h. p.), St. Louis, Mo. (See adv. index & branch offices, end of book)

## 3372—Engines (Oil Well Drilling)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Farrar & Trefts, Buffalo, N. Y.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)

## 3372a—Engines (Petrol)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3373—Engines (Pile Driving)

(See also Engines, Hoisting)
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)

Engines (Pile Driving
MANUFACTURED BY
CLYDE IRON WORKS
DULUTH, MINN.

**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**LAMBERT HOISTING ENGINE CO.,** 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam**bridge, Boston, Mass. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO., 2034 Car**roll av, Chicago, Ill. (See adv. index, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## Engines (Pneumatic)

(See Engines, Compressed Air; also Pneumatic Motors)

## 3373a—Engines (Poppet Valve)

Erie City Iron Works ("Lentz" Patent), Erie, Pa.
Nordberg Mfgg. Co., Milwaukee, Wis.

## 3374—Engines (Portable)

(This List is duplicated under the head of Engines, Steam)

### CALIFORNIA.

SAN FRANCISCO—**LAMBERT HOISTING** Engine Co., Stewart & Folsom. (See adv. index, end of book)
Union Iron Works, 20th & Michigan

### GEORGIA.

AUGUSTA—Lombard Iron Works & Supply Co.

### ILLINOIS.

AURORA—**AMERICAN WELL WORKS.** (See adv. index, end of book)
BELLEVILLE—Harrison Machine Works ("Jumbo")
CHICAGO—**AMERICAN WELL W'KS,** 1st Nat'l Bank bldg. (See adv. index, end of book)
Anderson, Carl Co. (Portable, Gasoline, Wheels), 510 Huron
**FAIRBANKS, MORSE & CO.** 481 Wabash av. (See adv. index, end of book)
**INTERNATIONAL HARVESTER** Co. of America ("I-H-C" Gasoline), 230 Harvester bldg. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO. (Hoisting),** Old Colony bldg. (See adv. index, end of book)
JOLIET—Bates Machine Co.
PEORIA—Avery Co. ("Avery")

### INDIANA.

ANDERSON—Lambert Gas & Gasoline Engine Co. (Gas & Gasoline, 2 to 20 h. p.)
EVANSVILLE—Heilman Machine Works
INDIANAPOLIS—Atlas Engine Works (10 to 40 h. p.)
Chandler & Taylor Co. (12 to 25 h. p.)
LA PORTE—Rumely, M. Co. (6 to 30 h. p.)
RICHMOND—Gaar, Scott & Co.
Robinson & Co.

### IOWA.

BURLINGTON—Murray Iron Works Co. (Semi-Portable)
CHARLES CITY—Hart-Parr Co. (Gasoline)

### MASSACHUSETTS.

CAMBRIDGE—**MEAD-MORRISON MFG.** Co. (See adv. index, end of book)

### MICHIGAN.

BATTLE CREEK—Advance Thresher Co.
KALAMAZOO—Clark Engine & Boiler Co. (6 to 25 h. p.)
PORT HURON—Port Huron Engine & Thresher Co. (Simplex & Compound)

### MISSOURI.

ST. LOUIS—St. Louis Well Machine & Tool Co.

### NEW JERSEY.

HARRISON—**NATIONAL HOISTING EN**gine Co. (See adv. index, end of book)
JERSEY CITY—Maslin, Jno. & Son

### NEW YORK.

ALBANY—Dedericks, P. K. Sons
AUBURN—McIntosh, Seymour & Co.
BINGHAMTON—Shapley & Wells (3 to 15 h. p.)
CLYDE—Wood, S. W. & Son
NEW YORK—**AMERICAN WELL W'KS,** 2 Stone. (See adv. index, end of book)

Steam Specialists
JAMES BEGGS & CO.
Liberty & Church, New York

**LIDGERWOOD MFG. CO. (Hoisting),** 96 Liberty. (See adv. index, end of book)
New York Engine Co. (6 to 40 H. P.), 165 B'way. Works, Watertown, N. Y.
OSWEGO—Ames Iron Works ("Vim," 6 to 50 h. p.)
SCHENECTADY—Westinghouse Co.
WATERTOWN—New York Engine Co. (See New York City)

### OHIO.

CINCINNATI—Lane & Bodley Co.
Smith, Myers & Schnier (16 to 50 h. p.)
COLUMBIANA—Enterprise Mfg. Co.
DAYTON—Brownell Co. (2 to 40 h. p.)
MANSFIELD—**Aultman & Taylor Machinery Co.**
MARION—Huber Mfg. Co. (Gasoline)
MASSILION—Russell & Co.
NEWARK—McNamar Machine Works (8 to 40 h. p.)
Scheidler Machine Works Co. (8 to 40 h. p.)
SPRINGFIELD—Kelly, O. S. Co.

### PENNSYLVANIA.

ERIE—Bay State Iron Works
Erie City Iron Works (Throttling, 15 to 55 h. p.; also on Skids)
Erie Engine Works (6 to 50 h. p.)
Nagle Engine & Boiler W'ks (6 to 50 h. p.)
Skinner Engine Co. (8 to 40 h. p.)
KENNETT SQUARE—American Road Machine Co.
OIL CITY—Oil City Boiler Works (Inc.) (4 to 40 h. p.)
PITTSBURG — **WESTINGHOUSE MA**chine Co., The (5 to 25 h. p.), Westinghouse bldg. (See adv. index, end of book)
TATAMY—Messinger Mfg. Co.
WAYNESBORO—Frick Co.
Geiser Mfg. Co. (On Wheels or Sills)
YORK—Farquhar, A. B. Co. (4 to 50 H. P.)
Hench & Dromgold Co.

### TENNESSEE.

CHATTANOOGA—Walsh & Weidner Boiler Co.
JACKSON—Southern Engine & Boiler Works (Inc.) (Automatic, Portable on Wheels)

### TEXAS.

DALLAS—**AMERICAN WELL WORKS,** (See adv. index, end of book)

## 3375—Engines (Portable, on Wheels)

Abenaque Machine Works (Gasoline), Westminster Station, Vt.
Ames Iron Works ("Vim," Agricultural), Oswego, N. Y.
Angola Engine & Foundry Co. ("Angola," Gasoline), Angola, Ind.
Aultman & Taylor Machinery Co., Mansfield, O.
**BEGGS, JAMES & CO., Liberty &** Church, New York
Buffalo Pitts Co., Buffalo, N. Y.
Case, J. I. Treshing Machine Co., Racine, Wis.
Charter Gas Engine Co. ("Charter" Gasoline), Sterling, Ill.
Enterprise Mfg. Co., Columbiana, O.
**FAIRBANKS, MORSE & CO.** (Gasoline), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.). York, Pa.
Foos Gas Engine Co., Springfield, O.
Gaar, Scott & Co., Richmond, Ind.
Good Roads Machinery Co., Kennet Square, Pa.
Huber Mfg. Co., Marion, O.
**INTERNATIONAL HARVESTER CO.** of America (Gasoline), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Messinger Mfg. Co., Tatamy, Pa.
Middletown Machine Co., Middletown, O.
National Engineering Co. (Gas & Gasoline), Saginaw, Mich.
Rockford Engine Works (Gasoline, with Screen Water Cooling Tanks, etc.), Rockford, Ill.
Salem Iron Works, Winston Salem, N. C.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Stover Engine Works (Gasoline Single Rod), Freeport, Ill.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

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Thompson, J. & Sons Mfg. Co. (Gasoline), Beloit, Wis.
Union Gas Engine Co. (Gas), San Francisco, Cal.
Williams Bros., Ithaca, N. Y.

## 3375a—Engines (Producer Gas)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

**JAMES BEGGS & CO.** (Complete Producer Gas Plants), Liberty & Church, New York

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3376—Engines (Pumping, Deep Well)

**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)

**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Cook, A. D., Lawrenceburg, Ind.
Cook Well Co., St. Louis, Mo.
**Luitwieler Pumping Engine Co. (Gasoline, Electric, Steam & Belt Driven), Rochester, N. Y.**
**Nordberg Mfg. Co., Milwaukee, Wis.**
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**Weinman Pump Mfg. Co., Columbus, O.**

## 3377—Engines (Pumping, Gas & Gasoline)

(See also Engines, Gas & Gasoline)

Advance Mfg. Co., Hamilton, O.
Allman Gas Engine & Machine Co., 461 Canal, New York
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Angola Engine & Foundry Co., Angola, Ind.
Badger Gas & Gasoline Engine Co., Kansas City, Kan.
**BEGGS, JAMES & CO., Liberty & Church, New York**
Brown-Cochran Co., Lorain, O.
Buckeye Engine & Foundry Co., Joliet, Ill.
Capital Gas Engine Co., Indianapolis, Ind.
Challenge Co., Batavia, Ill.
Charter Gas Engine Co., Sterling, Ill.
Columbus Machine Co., Columbus, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Famous Mfg. Co., East Chicago, Ind.
Foos Gas Engine Co., Springfield, O.
Flinchbaugh Mfg. Co., York, Pa.
Globe Iron Works Co., Menomonie, Wis.
**INTERNATIONAL HARVESTER CO.** of America ("Famous," "I-C-H"), 250 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kewanee Water Supply Co., Kewanee, Ill.
Lambert Gas & Gasoline Engine Co., Anderson, Ind.
Luitwieler Pumping Engine Co. ("Luitwieler," Non-Pulsating, Gasoline), Rochester, N. Y.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Middletown Machine Co., Middletown, O.
Model Gas Engine Works, Peru, Ind.
Montague Iron Works Co. (Gasoline), Montague, Mich.
National Engineering Co., Saginaw, Mich.
New Era Gas Engine Co., Dayton, O.
New Way Motor Co., Lansing, Mich.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Olds Gas Power Co., Lansing, Mich.
Otto Gas Engine Works (Gas), 33d & Walnut, Phila., Pa.
Peerless Motor Co., Lansing, Mich.
Regal Gasoline Engine Co., Coldwater, Mich.
Root & Vandervoort Engineering Co., East Moline, Ill.
Springfield Gas Engine Co., Springfield, O.
Standard Gas Engine Co., Oakland, Cal.
Standard Pump & Engine Co., Cleveland, O.
Stickney, Chas. A. Co. (for Railroad Service, etc.), St. Paul, Minn.
Stover Engine Works, Freeport, Ill.
Warner Elev. Mfg. Co. ("Warner"), Warner, Ill.
Waterous Engine Works Co., St. Paul, Minn.
Waterworks Equipment Co. (Portable Gasoline), 50 Church, New York
Weber Gas Engine Co., Kansas City, Mo.
Weinman Pump Mfg. Co., Columbus, O.
White-Blakeslee Mfg. Co., Birmingham, Ala.
Witte Iron Works Co., Kansas City, Mo.

## 3378—Engines (Pumping, High Duty)

Allentown Rolling Mills ("Aldrich" Electric), Allentown, Pa.
**ALLIS-CHALMERS CO. ("Reynolds"** Triple Expansion & Compound, Horizontal & Vertical), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Builders' Iron Foundry ("d'Auria"), Providence, R. I.
Canton-Hughes Pump Co. (Corliss Cross-Compound, etc.), Wooster, O.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Heisler, C. L., Mfg. Co., St. Marys, O.
**HOLLY MFG. CO., B'way & Cedar,** New York. (See adv. index & branch offices, end of book)
**HOOVEN, OWENS, RENTSCHLER** Co., Hamilton, O. (See adv. index & branch offices, end of book)
**LAIDLAW-DUNN-GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lake Erie Engineering Works, Buffalo, N. Y.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Morris, I. P. Co., Beach & Ball, Philadelphia.
Nordberg Mfg. Co., Milwaukee, Wis. Pa.
Platt Iron Works ("Smith-Vaile"), Dayton, O.
**PRESCOTT, FRED M. STEAM PUMP** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**SNOW STEAM PUMP WORKS, B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Tod, Wm. Co. ("Reynolds"), Youngstown, O
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Weinman Machine Works, Columbus, Ohio.
Wetherill, Robt. & Co. (Inc.), Chester, Pa.
Wilson-Snyder Mfg. Co., Pittsburg, Pa.
Wisconsin Engine Co., Corliss, Wis.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 3379—Engines (Pumping, Hot Air)

American Machine Co. ("Denney Improved Rider-Ericsson"), Newark, Del.
**BLISS, E. W. CO., 19 Adams, Brook**lyn, N. Y. (See adv. index & branch offices, end of book)
Demarest, Jno. J., 403 Broome, New York
Middlefield Mfg. Co. ("Geauga"), Middlefield, Ohio
Rider-Ericsson Engine Co., 35 Warren, New York
Slocomb, F. F. & Co. (Oscillating), Wilmington, Del.
**THOMAS & SMITH ("Economy"),** 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)

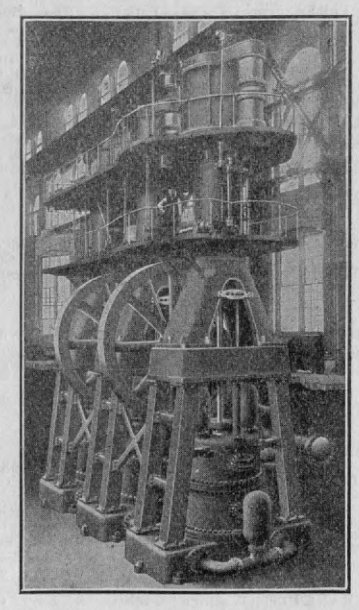
## 3380—Engines (Pumping, Hydraulic)

(See also Hydraulic Rams)

Dean Bros. Steam Pump Works, Indianapolis, Ind.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Niagara Hydraulic Engine Co., 140 Nassau, New York

## 3381—Engines (Pumping, Triple Expansion)

Canton-Hughes Pump Co., Wooster, O.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**SNOW STEAM PUMP WORKS, B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & & branch offices, end of book)

**HAMILTON POWER PUMPS**

High Duty Pumping Engines
Air and Gas Compressors
Special Heavy Castings
Hamilton-Corliss Engines

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## 3382—Engines (Reversing)

(See also Engines, Rolling Mill)

**ALLIS-CHALMERS CO. (Horizontal & Vertical),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**BUCKEYE ENGINE CO., Salem, O.** (See adv. index & branch offices, end of book)
Mackintosh, Hemphill & Co., Pittsburg, Pa.
Mesta Machine Co., Pittsburg, Pa.
Nagle Corliss Engine Works, Erie, Pa.
**Nordberg Mfg. Co.,** Milwaukee, Wis.
Southwark Foundry & Machine Co., Passyunk Station, Philadelphia, Pa.
Tod, Wm. Co. (Twin Cylinder and Twin Tandem Compound), Youngstown, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 3383—Engines (Reversing Cable-Way)

**CLYDE IRON WORKS (Complete** with Boiler), Duluth, Minn. (See adv. index & branch offices, end of book)

## 3384—Engines (Rocking Valve)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end **of book)**

## 3385—Engines (Rolling Mill)

(See also Rolling Mill Machinery)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end Cooper, C. & G. Co., Mt. Vernon, O. **of book)**
Frick Co., Waynesboro, Pa.
**HOOVEN, OWENS, RENTSCHLER** Co., Hamilton, O. (See adv. index & branch offices, end of book)
Mackintosh, Hemphill & Co. (Also Blast Furnace), Pittsburg, Pa.
Mesta Machine Co., Pittsburg, Pa.
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nagle Corliss Engine Works, Erie, Pa.
Newbold, R. S. & Son Co., Milwaukee, Wis.
Nordberg Mfg. Co., Milwaukee, Wis.
Portland Co., Portland, Me.
Reading Iron Co., Reading, Pa.
St. Louis Iron & Machine Works, St. Louis, Mo.
Southwark Foundry & Machine Co., Phila., Pa.
Tod, Wm. Co., Youngstown, O.
Wellman-Seaver-Morgan Co., Cleveland, O.
Wisconsin Engine Co., Corliss, Wis.

## 3386—Engines (Self-Oiling)

**Erie Mfg. & Supply Co. ("Erieco"),** Erie, Pa.
**Russell Engine Co.,** Marsillon, O.

## 3387— Engines (Steam)

All other Lists of Engine Builders in this book are duplicates of this List, excepting Engines, Gas & Gasoline of various kinds, and Engines, Traction; Engines, Oil; Engines, Hot Air; Engines, Hoisting. & Locomotive Builders.

### ALABAMA.

BIRMINGHAM—Birmingham Machine & Fdry Co., E. Birmingham
Continental Gin Co. (Inc.)
Hardie-Tynes Mfg. Co.
MONTGOMERY—Janney & Co.
SELMA—Union Iron Works Co.

### ARKANSAS.

FORT SMITH—Ketcham Iron Co.
LITTLE ROCK—Wehrfritz, E. C. Machinery & Wing & Stephens Co. Supply Co.

### CALIFORNIA.

GRASS VALLEY—Taylor Foundry & Engineering Co.
LOS ANGELES—Fulton Engine Works
Union Iron Works
SAN FRANCISCO—California Hydraulic Engineering & Supply Co., 305 Market
Cyclops Iron Works, 223 Main
Evans, C. H. & Co. (Marine), 181 Fremont
Garratt, W. T. & Co.
Golden State & Miners' Iron Works
Hendy, Joshua Iron Works (Automatic & Corliss)
Jackson, Byron, Iron Works, (Cross Compound)
Krogh Mfg. Co.
Murray Bros. Machine Works, 231 Folsom
Ohmen Engine Works
Union Iron Works Co. (Automatic)
Vulcan Iron Works
STOCKTON—Globe Iron Works (Inc.)
Stockton Iron Works

### COLORADO.

DENVER—Card, C. S. Iron Works Co.
Davis, F. M. Iron Works Co.
Denver Engineering Works Co.
McFarlane Mfg. Co.
Stearns-Roger Mfg. Co.

### CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co. ("Corliss" or "Green Wheelock")
Coulter & McKenzie Machine Co. (Marine)
DERBY—United States Rapid-Fire Gun & Power Co. ("Francke")
HARTFORD—Hartford Engine Works ("Hartford-Buckeye," "Woodruff-Beach")
NEW BRITAIN—**NEW BRITAIN MA**chine Co. ("Case" High Speed Automatic). (See adv. index, end of book)
NEW HAVEN—Rowland Machine Co.
Twiss, N. W. (Automatic)
NEW LONDON—New London Marine Iron
New London Gas & Electric Co. Works
NORWICH—Sterling Machine Co. ("Acme")

### DELAWARE.

WILMINGTON—Harlan & Hollingsworth Corporation (Marine or Stationary)
Pusey & Jones Co. (Stationary)

### FLORIDA.

JACKSONVILLE—Merrill-Stevens Co. (Marine)

### GEORGIA.

MACON—Schofield, J. S. Sons Co.
NEWNAN—Cole, R. D. Mfg. Co.
SAVANNAH—Kehoe Iron Works

### ILLINOIS.

AURORA—**AMERICAN WELL WORKS.** (See adv. index, end of book)
BELLEVILLE—Harrison Machine W'ks ("Jumbo")
CHICAGO—**BUCKEYE ENGINE CO. (of** Salem, O.), 204 Dearborn. (See adv. index, end of book)
Chicago Ship Building Co. (Marine), 101st & Calumet River
Haberkamp, Wm., 442 Wells
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av. (See adv. index, end of book)
New York Blower Co. (Side & Center Crank), 335 W 25th. Works, Bucyrus, O.
Vulcan Iron Works (Yacht & Tow Boat). 327 N Irving av
Wachs, E. H. Co. (Vertical), 149 W Indians
**WESTINGHOUSE MACHINE CO. (of** Pittsburg, Pa.), 171 La Salle
DECATUR—Oakes, Wm. L.
GALENA—Westwick, John & Son (2 to 20 h. p.)
GALESBURG—Frost Mfg. Co. (Automatic & Throttling, up to 200 h. p.)
JOLIET—Bates Machine Co. (Automatic & Throttling, up to 200 h. p.)
LITCHFIELD—Litchfield Fdry & Machine Co.
MATTOON—Chuse Engine & Mfg. Co.
PEORIA—Avery Co.
SPRINGFIELD—Ide, A. L. & Sons ("Ideal" Automatic Self-Oiling, Simple & Com
STREATOR—Graves, L. L. pound

### INDIANA.

ANDERSON—Anderson Fdry & Machine Works
ANGOLA—Angola Engine & Foundry Co.
BLUFFTON—Grimes, G. W. Co.
BRAZIL—Crawford & McCrimmon Co.
EVANSVILLE—Grote Mfg. Co.
Heilman Machine Works
Holtz, Ferdinand Co.
FORT WAYNE—Fort Wayne Foundry & Machine Co. (Automatic)
INDIANAPOLIS—Atlas Engine Works (Automatic, 10 to 2500 h. p.)
Chandler & Taylor Co. (Automatic Cut-Off Plain Slide Valve, Tandem Compounds Single Valve, Throttling, Simple, Self-Contained, Heavy Duty, Splash Oiling. Howe Engine Co. High Speed, etc.)
Sinker-Davis Co.
LAFAYETTE—Wallace Machine & Fdry Co.
RICHMOND—Gaar, Scott & Co. (Ltd.)
Quaker City Machine Co.
Robinson & Co.

### IOWA.

BURLINGTON—Murray Iron Works Co. (Center Crank, etc.)
CEDAR RAPIDS—Carmody Fdry & Mach. Co.
COUNCIL BLUFFS—Sprague Foundry & Mfg. Co. ("Ogden" Automatic)
DES MOINES—Wood Bros. Thresher Co.
McDonnell Boiler & Iron Works
MARSHALLTOWN—Shorthill, A. E. Co.
OTTUMWA—Ottumwa Iron Works (Also Air)

### KANSAS.

ABILENE—Parker, C. W.
ENTERPRISE—Ehrsam, J. B. & Sons Mfg. Co.

### KENTUCKY.

COVINGTON — Houston, Stanwood & Gamble Co. (Throttling, Standard, Duty, etc.)
LEXINGTON—Lexington Engine & Saw Mill
LOUISVILLE—Grainger & Co. Works
Vogt, Henry Machine Co.

### LOUISIANA.

NEW ORLEANS—Connell, J. D. Iron Works
Johnson Iron Works (Ltd.) Co.
Murphy, Jno. H., 633 Magazine
SHREVEPORT—Henderson, W. K. Iron Works & Supply Co.

### MAINE.

BATH—Bath Iron Works
HALLOWELL—Davenport, S. F. (Yacht)
Fuller's, G. Sons
MECHANIC FALLS—Penney, J. W. & Sons Co. (Automatic, 8 to 35 h. p.)
PORTLAND—Adde & Co.
Orr & Jennings
Portland Co. (10 to 300 h. p.)

### MARYLAND.

BALTIMORE—Cahill, W. S. Co.
Codd, E. J. & Co.
Marine Railway Machine & Boiler Works (Marine)
Skinner Ship Bldg. & Dry Dock Co. (Marine)
Zies, Chas. & Sons, 318 S Fremont av
CUMBERLAND—McKaig, Merwin (10 to 100 h. p.)
SPARROWS POINT—Maryland Steel Co. (Marine, etc.)

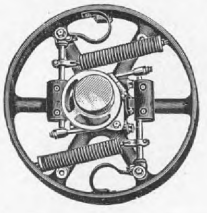
### MASSACHUSETTS.

BOSTON—Atlantic Works (Marine)
Bertelson & Peterson Engineering Co.
Fitzhenry, E. L. & Co., 49 Wash'n, N.
Lockwood Mfg. Co. (Marine), E. Boston
McLaughlin, Geo. G. Mfg. Co. (Automatic), 812 E 6th
BRIDGEWATER—Continetal Gin Co. (Inc.)
CAMBRIDGE—**MEAD-MORRISON MFG.** Co. (See adv. index, end of book)
FITCHBURG—Brown, C. H. Engine Co. (Automatic)
Fitchburg Steam Engine Co. ("Fitchburg," Automatic, Simple & Compound Vertical, Horizontal & High Speed)
Putnam Machine Co. (Automatic, 20 to 650 H. P.)
HOLYOKE—Perkins, B. F. & Sons
HYDE PARK—**STURTEVANT, B. F. CO.** (See adv. index, end of book)
LAWRENCE—Lawrence Pump & Engine Co.
QUINCY—Fore River Ship Building Co. (Marine)
TAUNTON—Mason Machine Works
WORCESTER—Burlingame, A. Co. (High Speed Automatic & Semi-Portable)
Union Machine Co. (3 to 30 h. p.)

### MICHIGAN.

ALMA—Montigel, J. M.
ALPENA—Kline, Lewis T.
BAY CITY—Marine Iron Co.
COMSTOCK—Comstock Mfg. Co. ("Climax" Automatic High Speed, Self Contained Center Crank)
DETROIT—American Blower Co.
Detroit Engine Works
Detroit River Iron Works
Detroit Ship Building Co.
Dodge Bros.
Fuller Co.
Great Lakes Engineering Works
GRAND RAPIDS—Leitelt, Adolph Iron Works
HANCOCK—Portage Lake Foundry & Machinery Co. (Stationary & Marine)
KALAMAZOO — Clark Engine & Boiler Co. (Horizontal & Vertical, up to 125 h. p.)

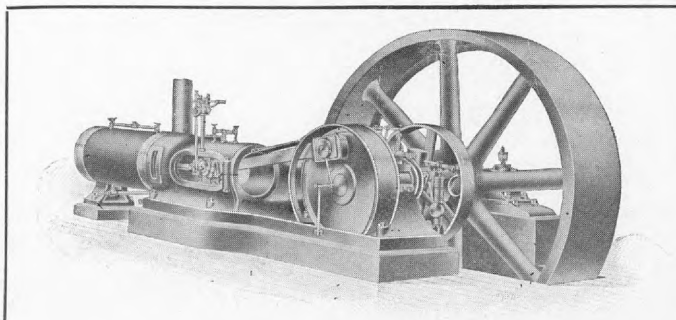
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# BUCKEYE ENGINES

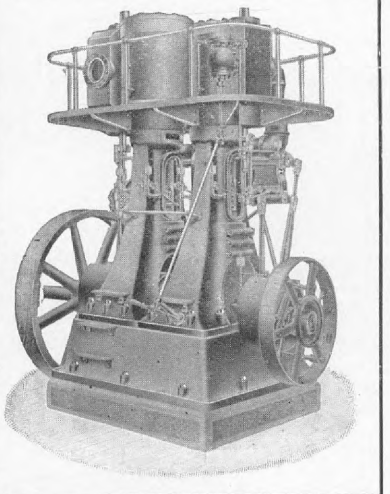
Results obtained from advertising in Hendricks' Register have justified us in taking two pages to tell about BUCKEYE ENGINES---Steam and Gas.

Sixty-three years ago the Buckeye Engine Co. was organized, with an aim to build the best steam engine possible. Thus the BUCKEYE ENGINE of today is the product of these years of practical engine building---the present construction is the result of experience and careful thought.



The governor was the first successful shaft regulator ever produced and with the late improvements is today the most successful regulator of its type.

A perfectly balanced cylinderical valve, with which a riding cut-off valve is used, is a feature contained only by the BUCKEYE ENGINE. These valves, having uniform travel and sufficient seating area, are constructed to overcome all tendency to uneven wear.



The BUCKEYE method is to eliminate all complicated gearing, using only that which is essential. This has produced the simplest high-class engine on the market. Skilled workmen and a system of rigid shop inspection insures the high standard which has made the BUCKEYE reputation.

**When you need power for *any purpose* write us stating your requirements. Let us recommend the style of engine. It will prove a paying investment.**

---

**BRANCH OFFICES**

CLEVELAND—1116 New England Bldg.
CHICAGO—1249 Marquette Bldg.
CINCINNATI—111 Ingalls Bldg.
BALTIMORE—100-102 Fayette St.
BIRMINGHAM—Brown-Marx Bldg.
PITTSBURG—1601 Arrott Bldg.
DENVER—1710 Glenarm St.
NEW YORK—39-41 Cortlandt St.
PHILADELPHIA—1020 Stephen-Girard Bldg.
ST. PAUL—Fourth and Wacautoo Sts.

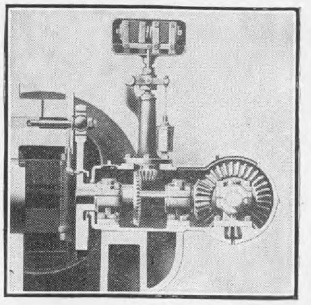
## BUCKEYE ENGINE COMPANY

**SALEM, - OHIO**

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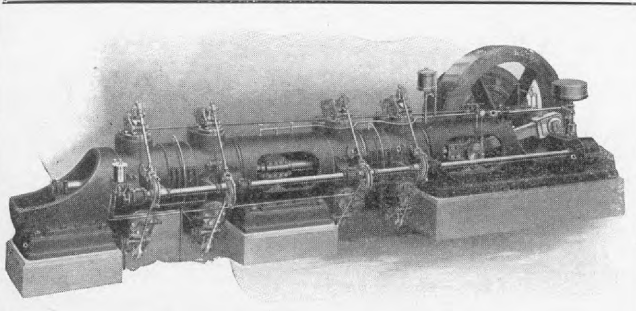
# BUCKEYE GAS ENGINES



Meet all requirements of customers desiring an efficient prime mover, low fuel and labor cost with moderate expense of maintenance. It is a high-class Gas Engine of American design, having the complications of foreign types eliminated.

Simplicity of construction and accessibility of parts for assembling and dismantling appeal to the practical engineer.

The regulation is equal to that of modern steam engines, and sufficiently close to meet the most exacting conditions.

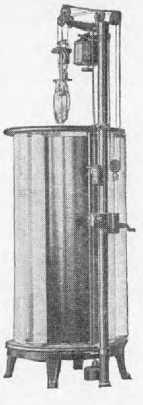


A direct governor drive is an exclusive feature. The governor is driven by the drag shaft, eliminating troubles due to torsonial disturbances which exist in governors driven from the lay shaft.

The BUCKEYE lay shaft drive is of the simplest construction, using but two gears. The swivel cross-head shoes as used on this engine overcome the tendency of the cross-head to bear on one end and cause heating of both shoes and slides.

The ignition system has been developed to the point of the greatest reliability. Current for the electro-magnetic plugs is furnished by a generator, supplimented by a storage battery which floats on the line.

BUCKEYE GAS ENGINES are built both single and double acting, operating on natural, illuminating or producer gas. Horse powers from 60 up.



## *THE SUN THAT NEVER SETS*

**The Buckeye Electric Blue Printing Machine** is of the highest efficiency and lowest price.

Exposure is controlled by a fly-ball friction governor; the curtain arrangement insures perfect contact. One lamp used made especially for blue printing services consumes very little current. A boy or girl can operate it at low cost. The expense of maintenance is slight, owing to durable and fool-proof construction.

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## BUCKEYE ENGINE COMPANY
SALEM, OHIO

Information and Catalogue on request.

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MARQUETTE—Lakeshore Engine Works (Inc.)
MONTAGUE—Montague Iron Works Co.
PETOSKEY—Middleditch, Philip
SAGINAW—Bartlett, A. F. & Co. (Corliss, Slide Valve & Hoisting, etc.)
Wickes Bros.
ST. JOHNS—Richmond & Holmes

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DULUTH—**NATIONAL IRON CO. (Automatic & Corliss).** (See adv. index, end of book)
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS — **MINNEAPOLIS STEEL** & Machinery Co. (Corliss). (See adv. index, Wallof, E. G. end of book)

## MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
Corinth Engine & Boiler Works

## MISSOURI.

KANSAS CITY—Strait, H. N. Mfg. Co. (Corliss, etc.)
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Johnson-Robinson Mach'y Co. (Corliss), 717 N 2d
Ramming, Jno. Machine Co. (Corliss Automatic & Slide Valve)
St. Louis Iron & Machine Works (Corliss)

## NEBRASKA.

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OMAHA—Drake-Williams-Mount Co.

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NASHUA—Rollins Engine Co. (Automatic Cut-Off, 20 to 600 h. p.)

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New York Ship Building Co.
CARTARET—**WHEELER CONDENSER** & Engineering Co. ("Wheeler"). (See adv. index, end of book)
ELIZABETH—Ball & Wood Co. (Automatic)
GLOUCESTER CITY—Rogers, John M. Works (Marine)
HARRISON—**WALSH'S SONS & CO. (See** adv. index, end of book)
HOBOKEN—Fletcher, W. & A. Co.
Forbes, W. D. Co.
JERSEY CITY—**GRISCOM-SPENCER CO.** ("Russell" Automatic & 4 Valve Engines), Grand & Sussex. (See adv. index, Miller, Alex. & Bro. end of book)
Smith, Theo. & Sons Co.
NEWARK—Currier, Cyrus & Sons
Hewes & Phillips Iron Works
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Poinier. (See adv. index, end of book)
**MUNDY, J. S., 22 Prospect. (See** adv. index, end of book)
Skinner & Leary, 5 Railroad pl
Watts-Campbell Co. (Improved Corliss)
PATERSON—Sipp Electric & Machine Co. (Miniature & Toy Engines)
PERTH AMBOY—Schantz & Eckert (Marine. etc.)
TRENTON—MacKenzie's, Duncan Sons Co.
Reeves Engine Co., Trenton, N. J.
**THROPP'S, JOHN E. SONS CO.** (Marine), ft of Lewis. (See adv. index, Trenton Engine Co. end of book)

## NEW YORK.

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Skinner & Arnold Co. (Marine & Stationary)
AUBURN—Bowen & Quick
McIntosh, Seymour & Co. (Automatic, Compound, Triple Expansion, Tandem, etc.)
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Buffalo Fdry & Machine Co. Automatic)
Buffalo Pitts Co.
Farrar & Trefts (4 to 30 h. p.)
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FISHKILL ON THE HUDSON—Fishkill Landing Machine Co. (Corliss)

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BROOKLYN—Pioneer Iron Works, 149 Pio-
Pioneer Machine Works, 75 Delevan neer

### Boroughs of Manhattan & Bronx.

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Ames Iron Works (16 to 100 H. P.), 85 Liberty. Works, Oswego, N. Y.

Steam Specialists
**JAMES BEGGS & CO.**
(Horizontal, Vertical, Portable, High Speed & Corless), Liberty & Church, New York

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De La Vergne Machine Co., 138th & E. R.
Gas Engine & Power Co., & Chas. L. Seabury & Co., Morris Heights
**GODFREY-KEELER CO. (Horizontal),** 70 Warren (See adv. index, end of book)
**GRISCOM-SPENCER CO. ("Russell"** Automatic & 4 Valve Engines), 90 West. (See adv. index, end of book)
Hamilton-Low Co. (To Order Only), 145 E 42d
**HOOVEN, OWENS, RENTSCHLER** Co. (100 to 500 h. p.), 39 Cortlandt. (See adv. index, end of book)
**HOWARD & MORSE ("Solano"** High Speed), 46 Fulton. (See adv. index, end of book)
**LAMBERT HOISTING ENGINE CO.** (of Newark, N. J.), 30 Church. (See adv index, end of book)
MacKenzie, Quarrier & Ferguson, 114 Liberty
New York Engine Co. (High Speed, Corliss, Throttling & Slow Speed Single, Double & Four Valve & Automatic), 165 Broadway. Works: Watertown, N. Y.
N. Y. Safety Steam Power Co. ("Automatic," 15 to 200 h. p.), 95 Liberty
Oil City Boiler Works (Inc.) (of Oil City, Pa.) (20 to 150 h. p.), 39 Cortlandt
Rothchild Engine Co., 102 Centre
**STRUTHERS-WELLS CO., 50** Church. Works: Warren, Pa. (See adv. index, end of book)
**STURTEVANT, B. F. CO., 131** Liberty. Works: Hyde Park, Mass. (See adv. index, end of book)
Sullivan, John W. Co. (Marine), 827 E 9th
**WESTINGHOUSE MACHINE CO.,** The, 8 Bridge; Works: E Pittsburg, Pa.

### Borough of Queens.

LONG ISLAND CITY—L. I. Machine & Marine Construction Co., ft. of East av

**(End of New York City)**

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OSWEGO—Ames Iron Works **("Vim & Regel" Automatic, Regel Throttling, Automatic** High Speed, 10 to 500 h. p.)
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Mahar, Jno.
TROY—Knowlson & Kelly
UTICA—Utica Steam Engine & Boiler Works
VERNON—Pohl, Geo. D. Mfg. Co.
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## NORTH CAROLINA.

CHARLOTTE—Liddell Co. (Inc.) (Automatic)
Mecklenburg Iron Works
GREENSBORO—Sergeant Mfg. Co.
WINSTON SALEM—Salem Iron Works (Centre Crank)

## OHIO.

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Taplin, Rice, Clerkin Co.
Wellman-Seaver-Morgan Co. (Automatic, Corliss, Hoisting, etc.)
BUCYRUS—New York Blower Co. (Side & Center Crank). See Chicago, Ill.
**CINCINNATI—BUCKEYE ENGINE CO.** (of Salem, O.), 111 Ingalls bldg. (See adv. index, end of book)
Frisbie Engine & Machine Co.
Greenwald, I. & E. Co. (Automatic & Throttling, Simple & Compound)
Lane & Bodley Co. ("Corliss," Four Valve Shaft Governor, Hoisting & Slide Valve)
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Smith, Myers & Schnier Co.
Steigert, Leopold
CLEVELAND—American Ship Building Co.
Bruce-Macbeth Engine Co.
**BUCKEYE ENGINE CO. (of** Salem, O.), New England bldg. (See adv. index, end of book)
Lord, Bowler Co.
McMyler-Interstate Co., 1799 Columbus rd
Ohio Blower Co., 324 Prospect av
Wellman-Seaver-Morgan Co. (Automatic, Corliss, Hoisting, etc.)
COLUMBIANA—Enterprise Mfg. Co. (Automatic, 25 to 200 H. P.), (Center Crank, 25 to 45 H. P.)
DAYTON—Brownell & Co. (Automatic & Dayton Engine Works Slide Valve)
HAMILTON — **HOOVEN, OWENS,** Rentschler Co. (Corliss & Medium Speed 4 Valve). (See adv. index, end of book)
IRONTON—Ironton Engine Co. ("Allfree," High Speed)
LIMA—Golley & Finley Iron Works
MANSFIELD—Aultman & Taylor Machinery Co.
MARIETTA—Pattin Bros. Co.
MARION—Huber Mfg. Co. (Single & Double, 5 to 30 h. p.)
MASSILLION—Russell Engine Co. (Automatic, Self-Oiling, Four Valve & Single Valve)
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POMEROY—Pomeroy Machine Co.
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SPRINGFIELD—Kelly, O. S. Co.
Leffel, James & Co. (Automatic, 10 to 50 h. p., also Throttling)
Trump Mfg. Co. (8 to 20 H. P.)
TOLEDO—Toledo Foundry & Machine Co.
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WARREN—McMyler-Interstate Co.
WELLSVILLE—Stevenson Co.
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**Vertical, Horizontal and High Speed Automatic Steam Engines. Portable Engines a Specialty.**

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Phoenix Iron Works (Marine)
Portland Iron Works
Willamette Iron & Steel Works

## PENNSYLVANIA.

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BRADFORD—Bovaird & Co.
Bovlard & Seyfang Mfg. Co.
Caldwell, E. R. & Co.
BUTLER—Evans Mfg. Co.
CHAMBERSBURG—Chambersburg Eng. Co.
CHESTER—Wetherill, Robt. & Co. (Stationary)
CONNELLSVILLE — Connellsville Machine & Car Co.
CORRY—Ajax Iron Works
DANVILLE—Danville Foundry & Machine Co.
DUBOIS—DuBois, John E.
EAST STROUDSBURG—Stauffer, Geo. E.
ERIE—Ball Engine Co. (Single Valve, Automatic, 25 to 600 h. p.)
Bay State Iron Works
Erie City Iron Works (Four Valve Automatic Cut-off, High & Medium Speed, Single Valve, Automatic Cut-off & Throttling Governor Engines)
Erie Engine Works (Automatic Cut-off, etc.)
Erie Mfg. & Supply Co. ("Erico" Self Oiling, Automatic)
Erie Pump & Engine Works
Nagle Corliss Engine Works (Automatic)
Nagle Engine & Boiler Works (6 to 100 h. p.)
Skinner Engine Co. (50 to 400 H. P.)
HAMBURG—Sneli & Meharg
HARRISBURG—Harrisburg Fdry & Machine Works ("Fleming" Side & Center Crank, Automatic)
**LEBANON—Weimer Machine Works Co.**
**MAHANOY CITY—Grant Iron Works**
MEADVILLE—Phoenix Iron Works Co. (Automatic, 20 to 600 h. p.)
MOUNT CARMEL—Mount Carmel Iron Wks.
NORRISTOWN — Newbold, R. S. & Son Co. (Slide Valve)
OIL CITY—Oil City Boiler Works (Inc.) (20 to 150 h. p.)
**OIL WELL SUPPLY CO.** (See adv. index, end of book)
PHILADELPHIA—Baizley, Jno. Iron Works, 514 S Delaware av
Cramp, Wm. & Sons Ship & Engine Building Co. (Marine)
Naylor, Jno. S., Front c Girard av
Rich, J. & G., 120 N 6th
Southwark Foundry & Machine Co. ("Porter"-"Allen," Automatic, 4 Valve) Washington av.
PITTSBURG—**BUCKEYE ENGINE CO.** (of Salem, O.), Arrott bldg. (See adv. index, end of book)
**CARLIN'S, THOS. SONS CO., Oliver** bldg. (See adv. index, end of book)
Combination Engine Co., 3148 Penn av.
Mackintosh, Hemphill & Co. (Heavy Rolling Mesta Machine Co. Mills, etc.)
Milholland, J. & J. B. Co. (Hoisting, Hauling, etc.)
**OIL WELL SUPPLY CO., 215** Water. (See adv. index, end of book)
Phillips & McLaren
Rees, Jas. & Sons Co.
**WESTINGHOUSE MACHINE CO.,** The, Westinghouse bldg. (See adv. index, end of book)
POTTSVILLE—Sparks & Parker
READING—Greth Machine Works (Inc.) (8 to Orr & Sembower (Inc.) 15 h. p.)
Reading Iron Co.
RIDGWAY—Ridgway Dynamo & Engine Co. (McEwen)
SCOTTDALE—Scottdale Foundry & Machine Co. (Corliss)
SCRANTON — **ALLIS-CHALMERS CO.** (See adv. index, end of book)
Finch Mfg. Co.
SHAMOKIN—Mullen, John & Son
STROUDSBURG—Stroudsburg Engine Works
TATAMY—Messinger Mfg. Co. (Automatic, 3 to 25 h. p.)
TITUSVILLE—Titusville Iron Co.
Young, E. R. & Sons
**TROY—Troy Engine & Machine Co. (Jno. A. Parsons, Prop.)**
TYRONE—Stine, J. C. Co. (Haulage, etc.)
WARREN—**STRUTHERS-WELLS CO.** (30 to 70 H. P.), (See adv. index, end of book)
WAYNESBORO—Frick Co. (Automatic)
Geiser Mfg. Co. ("Old Honesty," 8 to 30 h. p.)
WILLIAMSPORT—Rothfuss-Howard Iron Co.
Valley Iron Works (Inc.) (Automatic, High Speed, Electric, Enclosed, Self-Oiling)
YORK—Farquhar, A. B. Co. (Ltd.) (Centre Crank)
Hench & Dromgold Co.
Motter, Geo. F. & Sons
York Ice Machine Mfg. Co.

## RHODE ISLAND.

BRISTOL—Herreshoff Mfg. Co. (Marine)
PAWTUCKET—Cole Bros
PROVIDENCE—American & British Mfg. Co. ("Corliss" or "Green Wheeloch")
Cruickshank Engine Co.
Excelsior Steam Eng. & Machine Co.
Fuller Iron Works
Harris, Wm. A. Steam Engine Co. (Corliss)
Providence Engineering Works ("Rice" & "Sargent" & Improved "Greene")

## SOUTH CAROLINA.

ANDERSON—Anderson Machine & Foundry Co.
CHARLESTON—Charleston Iron Works
Valk & Murdoch Iron Works
COLUMBIA—Gibbes Machinery Co.
Willis, John A.
SPARTENBURG—Morgan Wood & Iron Works

## TENNESSEE.

CHATTANOOGA—Casey-Hedges Co.
Lookout Boiler & Mfg. Co.
Walsh & Weidner Boiler Co.
Wheland Machine Works (Centre & Side Valve)
JACKSON—Southern Engine & Boiler Works (Corliss Slide Valve & Center & Side Crank)
MEMPHIS—Chickasaw Iron Works
Ellis, Wm. C. & Sons Iron Works
NASHVILLE—Nashville Machine Co.
Stewert-Bruckner Co.

## TEXAS.

DALLAS—**AMERICAN WELL WORKS.** (See adv. index, end of book)
EL PASO—**MINNEAPOLIS STEEL & Machinery Co., 505 Guaranty Trust Bldg.** (See adv. index, end of book)
FORT WORTH—Van Zandt-Moore Iron Works
GALVESTON—Astall Iron Works Co.
McDonough Iron Works
Walsh & Cleary
SHERMAN—Washington Iron Works

## UTAH.

SALT LAKE CITY—Silver Bros. Iron Works
Trent Engineering & Machinery Co. Co.

## VIRGINIA.

ALEXANDRIA—Aitcheson, J. & H.
BERKLEY—Old Dominion Marine Railway Corp'n
NEWPORT NEWS—Newport News Ship Building & Dry Dock Co. (Marine)
NORFOLK—Duvall, Geo. W. & Co.
Godwin, Thos. W. & Co.
Smith & McCoy

## WASHINGTON.

SEATTLE—Heffernan Engine Works
Moran Co.
Northwestern Iron Works
Vulcan Iron Works
Washington Iron Works Co. (Slide Valve)
SPOKANE—National Iron Works (Inc.)
Union Iron Works (Inc.)
TACOMA—Puget Sound Iron & Steel Works

## WEST VIRGINIA.

CLARKSBURG—Osborn's, J. F. Sons

## WISCONSIN.

CORLISS—Wisconsin Engine Co.
EAU CLAIRE—Phoenix Mfg. Co. (Heavy Duty, Rocking Valve Slide)
FOND DU LAC—Giddings & Lewis Mfg. Co.
MANITOWOC—Manitowoc Dry Dock Co. (Marine)
Richards Iron Works
MILWAUKEE — **ALLIS-CHALMERS CO.** (Corliss, Simple Compound, Tandem & Triple Expansion, etc.) (See adv. index, end of book)
Bayley Mfg. Co. (Horizontal & Vertical, Solid & Center Crank Type)
Filer & Stowell Co. (Slide Valve, Rocking Valve, etc.)
Nordberg Mfg. Co. (Corliss, Blowing, Hoisting, Reversing, etc.)
Schneck Machine Co., 809 St. Paul av
OSHKOSH—United States Engine Works
RACINE—Racine Engine & Machine Co. (Vertical, Automatic, for Driving Electrical Apparatus, etc.)
RHINELANDER—Rhinelander Iron Co.
SHEBOYGAN—Optenberg Iron Works Co.
SUPERIOR—Superior Shipbuilding Co. (Marine) ("Jumbo")

# Engines (Steam Turbine)

(See Turbines, Steam)

# 3388— Engines (Steering)

**LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill.** (See adv. index & branch offices, end of book)

# 3389—Engines (Swinging)

Superior Iron Works Co. (For Swinging Derricks), Superior, Wis.

# 3390—Engines (Toy or Small)

H. K. Electric Toy Co. ("H. K." Electric Toy Engines & Novelties), Indianapolis, Ind.
Sipp Electric & Machine Co. (¼ to 2 h. p.), Paterson, N. J.

# 3391— Engines (Traction)

(See also Agricultural Implement Manufacturers)

## CALIFORNIA.

POMONA—Pomona Mfg. Co. (Gasoline)
SAN LEANDRO—Best Mfg. Co.
STOCKTON—Holt Mfg. Co.

## ILLINOIS.

BELLEVILLE — Harrison Machine Works ("Jumbo")
PEORIA—Avery Co. ("Avery" Steam)

## INDIANA.

COLUMBUS—Reeves & Co.
EVANSVILLE—Heilman Machine Works
LA PORTE—Rumely, M. Co. (12 to 40 h. p.)
MOUNT VERNON—Keck-Gonnerman Co.
RICHMOND—Gaar, Scott & Co.
Robinson & Co. (Inc.) ("Conqueror")

## IOWA.

CHARLES CITY—Hart-Parr Co. (Oil Cooled (Gasoline)
DES MOINES—Wood Bros Thresher Co.
WATERLOO—Cascaden Mfg. Co. ("Wineshiek")

## MICHIGAN.

BATTLE CREEK—Advance Thresher Co.
Nichols & Shepard Co.
LANSING—Olds Gas Power Co. (Gasoline)
PORT HURON—Port Huron Engine & Thresher Co. (Simple & Compound)

## MINNESOTA.

MINNEAPOLIS — Minneapolis Threshing Machine Co.
STILLWATER—Northwest Thresher Co. ("New Giant," "Northwest" Double Cylinder Cross Compound)
WINONA—Pioneer Tractor Mfg. Co.

## NEW YORK.

ALBANY—Dederick's, P. K. Sons
BATAVIA—Bidwell, C. H. Thresher Co.
BUFFALO—Buffalo Pitts Co.
CLYDE—Wood, S. W. & Son
GROTON—Monarch Road Roller Co.
SCHENECTADY—Westinghouse Co.

## NEW YORK CITY.

### Boroughs of Manhattan & Bronx.

NEW YORK—**McCOY, HENRY J. CO., 65 & 67 Dey.** (See adv. index, end of book)

## OHIO.

COLUMBUS—Columbus Machine Co. (Gasoline)
MANSFIELD—Aultman & Taylor Machinery Co. ("Atlas," "Eureka," "Eureka Jr.," "Hercules," "Jupiter," 8 to 25 h. p., Spur Gear)

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MARION—Fairbanks Steam Shovel Co.
Huber Mfg. Co. ("New Huber," Single & Double, 5 to 30 h. p.)
Marion Mfg. Co. ("Leader")
Ohio Tractor Mfg. Co. ("Ohio")
MASSILLON—Russell & Co.
NEWARK—McNamar Machine Works
Scheidler Machine Works Co. (10 to 16 h. p.)
SPRINGFIELD — Duplex Mill & Mfg. Co.
Kelly, O. S. Co. ("Kelly")
SWANTON—Baker, A. D. Co. ("Baker" Special Contractors' Engines)

### PENNSYLVANIA.

ELK LICK—Improved Traction Engine Co.
TATAMY—Messinger Mfg. Co.
WAYNESBORO—Frick Co. ("Eclipse," "Eclipse, Junior," Wood & Coal)
Geiser Mfg. Co. ("Peerless," Wood, Coal & Gasoline)
WRIGHTSVILLE—Dissinger, C. H. A. & Bro.
YORK—Farquhar, A. B. Co. (Ltd.) ("Pennsylvania")

### WISCONSIN.

MILWAUKEE—**VILTER MFG. CO., 1046** Clinton. (See adv. index, end of book)
RACINE—Case, J. I. Threshing Machine Co.

## 3392—Engines (Traction, Gasoline)

Abenaque Machine Works ("Abenaque"), Westminster Sta., Vt.
Advance Mfg. Co. ("Hamilton Advance"), Hamilton, O.
**AMERICAN WELL WORKS ("Aurora")**, Aurora, Ill. (See adv. index & branch offices, end of book)
Angola Engine & Foundry Co., Angola, Ind.
Aultman & Taylor Machinery Co. (8 to 25 H. P. Portable), Mansfield, O.
Badger Gas & Gasoline Engine Co., Kansas City, Kan.
Bawroth Bros., Springfield, O.
Dissinger, C. H. A. & Bro. Co. ("Capital"), Wrightsville, Pa.
Eagle Mfg. Co., Appleton, Wis.
**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Famous Mfg. Co. ("Champion"), East Chicago, Ind.
Flinchbaugh Mfg. Co. ("York"), York, Pa.
Foos Gas Engine Co., Springfield, O.
Galion Iron Works Co., Galion, O.
Gas Traction Co. ("Big Four"), Minneapolis, Minn.
Hart-Parr Co., Charles City, Ia.
Huber Mfg. Co., Marion, O.
Holt Caterpillar Co., Peoria, Ill.
Intermountain Machinery Co. (Also for Kerosene Distillate or Crude Oil), Salt Lake City, Utah
**INTERNATIONAL HARVESTER CO.** of America ("International"), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kinnard-Haines Press Co. ("Flour City"), Minneapolis, Minn.
Lambert Gas & Gasoline Engine Co. (10, 15 & 25 h. p.), Anderson, Ind.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Otto Gas Engine Works, Phila., Pa.
Pomona Mfg. Co., Pomona, Cal.
Reeves & Co., Columbus, Ind.
Seager Engine Works, Lansing, Mich.
Springfield Gas Engine Co., Springfield, O.
Stover Engine Works, Freeport, Ill.
Waterous Engine Works Co., St. Paul, Minn.

## 3393—Engines (Traction, Kerosene)

Rumely, M. Co. ("Oil-Pull," 15 to 20 h. p.), La Porte, Ind.

## 3394— Engines (Vertical)

**(This List is duplicated under the head of Engines, Steam)**

### CALIFORNIA.

**SAN FRANCISCO—FAIRBANKS, MORSE** & Co., 158 1st. (See adv. index end of book)
Union Gas Engine Co. (Gas)
Union Iron Works (25 to 100 h. p.)

### CONNECTICUT.

NEW HAVEN—Twiss, Nelson W. (2 to 25 h. p.) (See adv. index, end of book)

### ILLINOIS.

**AURORA—AMERICAN WELL WORKS.** (See adv. index, end of book)
CHICAGO—**BUCKEYE ENGINE CO. (of** Salem, O.), 204 Dearborn. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av. (See adv. index, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av. (See adv. index, end of book)
New York Blower Co., 25th pl & Stewart av.
Works, Bucyrus, O.
JOLIET—Bates Machine Co., (Automatic High Speed)

### MASSACHUSETTS.

FITCHBURG—Fitchburg Steam Engine Co. (20 to 180 h. p.)
FLORENCE—Norwood Engineering Co. (2 to 50 h. p.)
HYDE PARK— **STURTEVANT, B. F. CO.** (Open or Closed Type) (See adv. index, end of book)
LAWRENCE—Lawrence Pump & Engine Co.
NEWBURYPORT—Davis, F. E. (2 to 20 h. p.)

### MICHIGAN.

ALMA—Montigel, J. M.
COMSTOCK—Comstock Mfg. Co. ("Climax" Automatic)
DETROIT—Great Lakes Engineering Works (Slide Crank. Marine, etc.)
KALAMAZOO—Clark Engine & Boiler Co. (horizontal and vertical, up to 125 h. p.)
Dutton, C. H. Co. (2 to 10 h. p.)
Hill, Wm. E. & Co. (Automatic)
SAGINAW—Wickes Bros.

### MISSOURI.

ST. LOUIS—Fulton Iron Works

### NEW JERSEY.

CARTARET—**WHEELER CONDENSER** & Engineering Co. ("Wheeler"). (See adv. index, end of book)
ELIZABETH—Ball & Wood Co.
JERSEY CITY—Maslin, John & Son
NEWARK—Seymour & Whitlock
TRENTON—Reeves Engine Co.

### NEW YORK.

AUBURN—McIntosh, Seymour & Co.
BALDWINSVILLE—**MORRIS MACHINE** Works (1½ to 275 h. p.)
FISHKILL ON THE HUDSON—Fishkill Landing Machine Co.

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Pioneer Iron Works, 149 Pioneer

#### Boroughs of Manhattan & Bronx.

**NEW YORK—AMERICAN WELL W'KS,** 2 Stone. (See adv. index, end of book)
**BEGGS, JAMES & CO., Liberty &** Church, New York
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar. (See adv. index & branch offices, end of book)
**BUCKEYE ENGINE CO. (of Salem,** O.), 39 Cortlandt. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 30** Church. (See adv. index, end of book)
**GODFREY-KEELER CO., 70 Warr**en. (See adv. index, end of book)
**KNOWLES STEAM PUMP W'KS.** B'way & Cedar. (See adv. index & branch offices, end of book)
**McCOY, HENRY J. CO., 65 & 67 Dey,** (See adv. index, end of book)
N. Y. Safety Steam Power Co. (2 to 100 h. p.), 95 Liberty

### OHIO.

BUCYRUS—New York Blower Co. (See Chicago, Ill.)
CINCINNATI—**BUCKEYE ENGINE CO.** (of Salem, O.), Ingalls bldg. (See adv. index, end of book)
CLEVELAND—**BUCKEYE ENGINE CO.** (of Salem, O.), New England bldg. (See adv. index, end of book)
ORRVILLE—Cyclone Drill Co.
RAVENNA—Byers, John F. Machine Co.
SALEM—**BUCKEYE ENGINE CO. (See** adv. index, end of book)
SANDUSKY—Klotz Machine Co. (10 to 50 h. p.)
SPRINGFIELD—Leffel, James & Co. (3 to 6½ h. p.)

### PENNSYLVANIA.

CORRY—Climax Mfg. Co. (6 to 100 h. p.)
ERIE—Erie Mfg. & Supply Co.
Erie Pump & Engine Works
Nagle Engine & Boiler Works (4 to 50 h. p.)
Stearns Co.
PHILADELPHIA—Rich, J. & G., 120 N 6th
Southwark Foundry & Machine Co., Washington av c 5th
PITTSBURG—**BUCKEYE ENGINE CO.** (of Salem, O.), Arrott bldg. (See adv. index, end of book)
READING—Orr & Sembower (Inc.)
TATAMY—Messinger Mfg. Co.
YORK—Farquhar, A. B. Co. (Ltd.)
York Ice Machine Mfg. Co.

### RHODE ISLAND.

PROVIDENCE—Cruickshank Engine Co. (2 to 35 h. p.)

### WISCONSIN.

MILWAUKEE—**ALLIS-CHALMERS CO.** (All Sizes). (See adv. index, end of book)
National Blower Works, 17th & St. Paul, av
RACINE—Racine Engine & Machine Co. (Small)
SHEBOYGAN—Optenberg Iron Works Co.

## 3395—Engines (Washing, Paper Mill)

Dillon Machine Co., Lawrence, Mass.
Dilts Machine Works, Fulton, N. Y.
Noble & Wood Machine Co., Hoosick Falls, N. Y.

## 3396— Engines (Winding)

**Hendy, Joshua Iron Works (Air, Electric, Hydraulic & Steam Driven), San Francisco, Cal.**
Lane & Bodley Co., Cincinnati, O.
Wellman-Seaver-Morgan Co. (Direct Acting), **Cleveland, O.**

## Engines (Yacht or Launch)

(See Engines, Marine, Gasoline; also Engines, Oil)

## 3397—Entrances (Copper & Bronze Covered)

**THORP FIRE PROOF DOOR CO. ("Thorp**-Richardson"), 1600-1610 Central av, Minneapolis, Minn. (See adv. index & branch offices, end of book)

## 3398—Envelope Mfrs. (Catalogue, Merchandise & Tag)

American Envelope Co., West Carrollton, O.
American Mfg. Co. (Tag), Battle Creek, Mich.
American Paper Goods Co. (Package), Kensington, Conn.
American Tag Co. (Tag), 6133 State, Chicago, Ill., & Belleville, N. J.
Berkowitz Envelope Co., Kansas City, Mo.
Berlin & Jones Envelope Co., 136 William, New York
Birnie Paper Co., Springfield, Mass.
Carpenter, W. B. & Co., 422 Main, Cincinnati, Ohio
Chicago Envelope Co. (Merchandise), 204 Dearborn, Chicago, Ill.
Clasp Envelope Co. (Package), 109 Leonard, New York
Cohen, Chas. J. & Son, 312 Chestnut, Phila.,
Columbus Envelope Co., Columbus, O. Pa.
Continental Paper Bag Co., 17 Battery pl, New York
Cupples, Sam'l Envelope Co., St. Louis, Mo.
Eaton, Crane & Pike Co., Pittsfield, Mass.
Gair, Robert Co., Washington c Plymouth, Brooklyn, N. Y.
Goodbody, Wm. (Mailing), 505 W B'way, New York
Hinde & Dauch Paper Co. (Corrugated Paper), Sandusky, O.
Hogan Envelope Co., 319 W Ohio, Chicago, Ill.
Hults, E. H. Jr., 25 N 6th, Phila., Pa.
Hurd, Geo. B. & Co., 425 Broome, New York
Illinois Envelope Co., Kalamazoo, Mich.
Improved Mailing Case Co. (Letter & Package), 192 W B'way, New York
Jeffrey, Louis (Metallic Clasp Merchandise), 78th & Brunswick av, Phila, Pa.

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Landa, A. & Co. (Leather & Cloth Document), 5247 N Clark, Chicago, Ill.
Lavette, H. C. (Patent Photo Mailing), 333 S Clinton, Chicago, Ill.
Modern Mfg. Co. (Metal Clasp), 543 N Lawrence, Phila., Pa.
Niagara Envelope Mfg. Co., Buffalo, N. Y.
Neostyle Envelope Co. (Merchandise), 88 Reade, New York
Powers Paper Co. (Merchandise), Springfield, Mass.
Raynor & Perkins Envelope Co. (Letter), 220 William, New York
Russell Box Co. (Mailing), Chelsea, Mass.
Salisbury Mfg. Co. (Clasp, Tag, etc.), Providence, R. I
Security Envelope Co. (Hand Fold), Minneapolis, Minn.
Sefton Mfg. Co. (Mailing), 1301 W 35th, Chicago, Ill.
Sewell-Clapp Mfg. Co. (Mailing), 23 N Des plaines, Chicago, Ill.
Sherman Envelope Co., Worcester, Mass.
Spangler, E. J. & Co., 1237 N Howard, Phila., Pa.
Taylor-Atkins Paper Co., Burnside, Conn.
Tension Envelope Co. (Package), 22 Reade, New York
Thomas Stationery Mfg. Co. (Tag), Spring field, O.
Union Envelope Co., Richmond, Va.
United States Envelope Co., Springfield, Mass
West Envelope Co. (Center Seam, etc.), 90 Orange, Brooklyn, N. Y.
Whiting Paper Co., Holyoke, Mass.
Worcester Envelope Co., Worcester, Mass.

## 3399—Envelopes (Pliable Metal)

Modern Mfg. Co., 543 N Lawrence, Phila, Pa.

## 3400—Equalizers or Eveners

Adams, E. B. & Son ("Steel Giant" 3 Horse), Racine, Wis.
Case, J. I. Plow Works, Racine, Wis.
Heider Mfg. Co., Carroll, Ia.
Rock Island Plow Co., Rock Island, Ill.
Star Mfg. Co., Carpentersville, Ill.

## 3401—Eradicators for Tracing Cloth

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington, Boston, Mass.** (See adv. index, end of book)

**SOLTMANN, E. G.**
("Inkoff"—Washes Black Waterproof Ink Off Like Washing Off a Slate), 134 W 29th, New York. (See adv. index, end of book)

## 3402— Eradicators (Ink)

**HARDMUTH, L. & C. ("Ideal"), 34 E 23d, New York.** (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)
Sonneborn, L. Sons (Inc.) ("Amalia" for Desks, Office Furniture, etc.), 262 Pearl, New York

## 3403—Erasers (Draughtsmen's)

**COATES CLIPPER MFG. CO. (Electric),** Worcester, Mass. (See adv. index, end of book)
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)

## 3404— Erasers (Ink)

Blaisdell Paper Pencil Co., Wayne Junction, Phila., Pa.
Canton Cutlery Co., Canton, O.
Challenge Cutlery Corp., Bridgeport, Conn.
Landers, Frary & Clark (Inc.), New Britain, Conn
Miller Bros. Cutlery Co. (Steel), Meriden, Conn.
Napanoch Knife Co., Napanoch, N. Y.
Novelty Cutlery Co., Canton, O.
Ross, Jos. Jr. & Co., Irvington, N. J.
Schnefel Bros., Newark, N. J.
Turner Bros. ("Sterling"), 1022 Arch, Phila., Pa.
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.

## 3405— Erasers (Rubber)

American Lead Pencil Co., 43 W 4th, New York
Davidson Rubber Co., Boston, Mass.
**DIXON, JOS. CRUCIBLE CO. (for Pencil or Ink),** Jersey City, N. J. (See adv. index & branch offices, end of book)
Eagle Pencil Co., 377 B'way, New York
Faber, A. W., Newark, N. J.
Faber, Eberhard, 190 Fifth av, New York
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goodyear India Rubber Glove Mfg. Co., 503 B'way, New York
Laurel Rubber Co., Garfield, N. J.
Mattson Rubber Co., Lodi, N. J.
Novelty Eraser Mfg. Co. ("Frederick," Sanitary Adjustable), Columbiana, O.
Yateman Rubber Co., Newark, N. J.

## Escalators

(See Stairways, Moving)

## 3406— Escutcheon Pins

American Pin Co. (Brass), Waterbury, Conn.
American Screw Co., Providence, R. I.
**AMERICAN STEEL & WIRE CO.** (Brass & Steel), Commercial Nat'l B'k bldg. Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Blake & Johnson Co., Waterbury, Conn.
Clendenin Bros. (Brass), Baltimore, Md.
Corbin Screw Corporation (Steel or Brass), New Britain, Conn.
Globe-Taunton Nail Co., Taunton, Mass.
Grammes, L. F. & Sons (Brass or Iron), Allentown, Pa.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Hassall, John (Brass, Iron, Steel, German Silver, Tinned, etc.), 45 Lafayette, New York
Havell Mfg. Co. (Brass & Steel), Newark, N. J.
**HUNGERFORD, U. T. BRASS &** Copper Co. (Brass & Iron), 497 Pearl, New York
Jenkinson, R. C. & Co., Newark, N. J.
**MERCHANT & EVANS CO. (Inc.)** (Brass), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Milwaukee Tack Co., Milwaukee, Wis.
Perkins, Henry Co., Bridgewater, Mass.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Plymouth Mills (Brass & Iron), Plymouth, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.
Taunton Rivet Works, Taunton, Mass.
Tower Mfg. Co., Cincinnati, O.
**TURNER & SEYMOUR MFG. CO.** (& Rivets), Torrington, Conn. (See adv. index, end of book)
Turner & Stanton Co. (Brass), Norwich, Conn.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Mfg. Co. (Brass), Waterbury, Conn
Wire Goods Co. (Iron & Brass), Worcester, Mass.

## 3407— Escutcheons

American Pin Co., Waterbury, Conn.
Corbin Cabinet Lock Co., New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
Globe-Taunton Nail Co. (Brass & Steel), Taunton, Mass.
National Lock Co. (Keyhole, Brass & Plated), Rockford, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co. (Cabinet Furniture, Sliding Door & Wood), New Britain, Conn., & 96 Lafayette, New York
Sargent & Co., New Haven, Conn.
Spengler Bros. Co. (Brass Furniture), Rockford, Ill.
Taylor & Baggis Foundry Co., Cleveland, O.
Yale & Towne Mfg. Co. (Cabinet, Door, etc.), 9 Murray, New York

## 3408—Escutcheons (Wood, Key Hole)

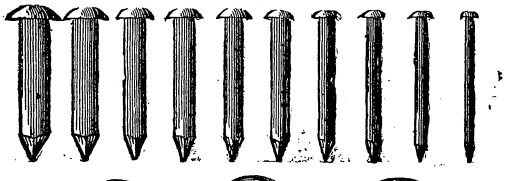
Piqua Handle & Mfg. Co., Piqua, O.

## 3409— Evaporators

(See also Evaporators, Multiple Effects, under the head of Sugar Machinery)

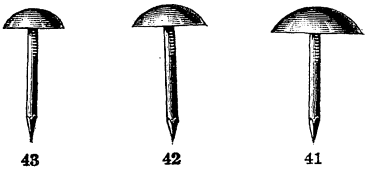
American Evaporator Co., Front & Forest, Phila., Pa.
Babcock Mfg. Co. ("Granger," "Otsego" Fruit), Leonardsville, N. Y.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Bell, C. S. Co. ("Bell," "Cook's" & "Rocker," Maple Sugar & Sorghum), Hillsboro, O.
Black & Clawson Co., Hamilton, O.
Blymer Iron Works Co. ("Zimmerman" Fruit, "Cook's" & "Santa Clara" Sugar), Spring Grove av & Terrace pl, Cincinnati, O.
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Caledonia Bean Harvester Works ("Caledonia"), Caledonia, N. Y.
Casey-Hedges Co. (Multiple Effects), Chattanooga, Tenn.


STAR BRAND



ESCUTCHEON PINS

EAGLE BRAND




UPHOLSTERERS' NAILS

Made in TORRINGTON, CONN., by the TURNER & SEYMOUR MFG. CO.


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Champion Evaporator Co. ("Champion" Cider, Maple Sugar & Sorghum), Hudson, O.
Chattanooga Plow Co. ("Zimmerman" Fruit, "Cook's" Sugar), Chattanooga, Tenn.
Connell, J. D. Iron Works Co. (Sugar), New Orleans, La.
Cook Cane Mill & Evaporator Co. ("Cook's" Sugar, Maple Sugar & Sorghum), St. Louis, Mo.
Densmore Bros. (Fruit, etc.), Red Wing, Minn.
Fahrney, Edw. B. ("U-S Cook-Stove," Fruit, etc.), Waynesboro, Pa.
Gardner, Jno. T. (Fruit), Oxford, Mich.
Gowando Agricultural Works Co. ("Gowanda," Maple Sugar & Sorghum), Gowanda, N. Y.
Grimm, G. H. ("Champion" Maple Sugar & Sorghum), Rutland, Vt.
**GRISCOM-SPENCER CO., 90 West, New** York. (See adv. index & branch offices, end of book)
Hydraulic Press Mfg. Co. ("South Allen" Cider), Mt. Gilead, O.
International Process Co. ("Carl P. Carlson's," for Pulp Mills, etc.), 5 Beekman, New York
Kestner Evaporator Co. (For Caustic Soda, Potash, etc.), 333 Walnut, Phila., Pa.
Marshall Foundry Co., Pittsburg, Pa.
Morris Engineering Co. (Multiple Effects), 333 Walnut, Phila., Pa.
**Munnsville Plow Co. ("Duplex," "20th Cen**tury," for Fruit, Hops, etc.), Munnsville, N. Y.
Murkland, J. W. ("Murkland" Maple Sugar & Sorghum), Barton, Vt.
Oats, Joseph & Son (Multiple Effects), Phila.,
Palmer & Co. (Fruit), Noble, Ill. Pa.
Philadelphia Coppersmithing Co. (Multiple Effects), 2d & Florist, Phila., Pa.
Pratt Engineering & Machine Co., Atlanta, Ga.
Rapid Evaporator Co. (Rapid Vacuum, for All Purposes), Detroit, Mich.
Schmidt, Joslin & Co. (Vacuum & Special for
Schutte & Koerting Co., 1251 N 12th, Phila.,
Sebastain, Bros. (Fruit), Odin, Ill. Pa.
Southern Plow Co. (Sugar), Columbus, Ga.
Squier, Geo. L. Mfg. Co. (Sugar), Buffalo, N. Y.
Stahl, Wm. Evaporator Co. ("Excelsior" Fruit), Quincy, Ill.
Stutzman, D. ("Stutzman," "Orma's" Fruit), Ligonier, Ind.
Swenson Evaporator Co. (For Any Liquid), Monadnock blk, Chicago, Ill.
Vermont Farm Machine Co. ("Williams" Maple Sugar & Sorghum), Bellows Falls, Vt.
Warren Evaporator Works ("I-X-L" Maple Sugar & Sorghum; Milton Mathews, Prop.), Warren, O
White's, S. R. Sons ("Cook's" Sugar), Norfolk, Va.
Zaremba Co. ("Zaremba," Any Size, Any Liquor), Buffalo, N. Y.

## 3410—Evaporators (Multiple Effects)

Rapid Evaporator Co. (Single & Multiple), Detroit, Mich.
Swenson Evaporator Co. (Single & Multiple), Monadnock blk, Chicago, Ill.

## 3411—Evaporators & Distilling Apparatus for Alcohol, Rum, Etc.

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 3412—Evaporators & Fresh Water Distilling Apparatus

Davidson, M. T. ("Baird" Patents for Steam Vessels, Chemical Works, etc.), 43 Keap, Brooklyn, N. Y.
**GRISCOM - SPENCER CO. ("Reilly"** Multicoil), 90 West, New York. (See adv. index & branch offices, end of book)

## 3413—Excavators (Drag Bucket)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO. ("Mon**ighan"), 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

## 3413a—Excavators (Drainage)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 3414—Excavators (Placer Mining)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 3415—Excavators (Railroad)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 3416—Excavators (Scraper Bucket)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**UNION ELEVATOR & MACHINE CO.** ("Channon" Adjustable), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
**WILLIAMS, G. H. CO., Rockefeller** bldg, Cleveland, O. (See adv. index, end of book)

## 3417— Excavators (Skid)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE (Steel Frame** & Boom), 50 Church, New York. (See adv. index, end of book)

## 3418—Excavators (Steam)

(See also Shovels, Steam)

Bucyrus Co. ("Heyworth-Newman" Drag Line), South Milwaukee, Wis.
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Marion Shovel & Dredge Co., Marion, O.
**MONIGHAN MACHINE CO. (Drag** Bucket), 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)
Stone-Van Nostrand Co. ("Hadsel"), Scranton, Pa.

## 3419—Excavators (Steel, Revolving Boom)

Browning Mfg. Co., Cleveland, O.
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Heyworth, James O. ("Heyworth-Newman" Drag Line Bracket Excavator), Harvester bldg, Chicago, Ill.
**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Page, John W., Security bldg, Chicago, Ill.

## Excavators (Trench)

(See Sewer & Trench Excavating Machines)

## 3420— Excelsior Mfrs.

Abbot Excelsior Mills, Abbot, Me.
Acme Excelsior Co., Harvey, Ia.
Alpena Excelsior Co. (Also Wood Wool), Alpena, Mich.
American Fibre Co. (Palm Leaf Mattress) Jacksonville, Fla.
Bartlett Bros., Melvin Falls, N. H.
Berry, O. P. Co., Wolfboro Falls, N. H.
Boston Excelsior Co., Boston, Mass.
Burnside Excelsior Co., Burnside, Ky.
Charleston Excelsior M. &/B. Factory, Charleston, S. C.
Coffeyville Excelsior Mfg. Co., Coffeyville, Kan.
Demarest & Burlison, Butler, N. J.
Detroit Excelsior Works, Detroit, Mich.
Du Pere Mfg. Co., Atlanta, Ga.
Farnham, J. F., Union, N. H.
Fox, J. W. Excelsior Co., Grand Rapids, Mich.
Gulf Red Cedar Co. (Red Cedar), Richmond, Va.
Guttenbery Excelsior Mfg. Co., Guttenberg, Ia.
Hahn, J. F., Lancaster, Pa.
Hoffman-Corr Mfg. Co. (Also Moss), 413 Market, Phila., Pa.
Holbert, J. G., Westcolang, Pa.
Hoornbeek, Jno. C., Wawarsing, N. Y.
Hornbeck, J. K. & Son, Hancock, N. Y.
Huffman, T. P. & Co., 648 W 34th, New York
Hutchins, Frank, Wolfboro Falls, N. H.
Johnson-Smith Excelsior Co., Indianapolis, Ind.
Keogh Exc. Mfg. Co., Chicago, Ill.
Klein, Philip, Evansville, Ind.
Lord, W. M., Co., Union, N. H.
Meridian Mattress Factory, Meridian, Miss.
Morris-Johnson-Brown Mfg. Co., Dubuque, Ia.
Oshkosh Excelsior Mfg. Co., Oshkosh, Wis.
Park Falls Mfg. Co., Park Falls, Wis.
Payne & Co., Dayton, O.
Peters & Roberts Furniture Co., Portland, Ore.
Rice Lake Excelsior Co., Rice Lake, Wis.
Shreveport Mfg. Co., Shreveport, La.
St. Louis Excelsior Mfg. Co., St. Louis, Mo.
Tompkinson, C. V., Lebanon, N. H.
Traverse City Excelsior Works, Traverse City, Mich.
Virginia Excelsior Co., Fredericksburg, Va.

## 3421— Exercisers

Bailey, C. J. & Co., Boston, Mass.
Ingersoll, R. H. & Bro., 45 John, New York
Narragansett Machine Co., Providence, R. I.
Racine Exerciser Co., Milwaukee, Wis.
Whitely Exercise Co., 203 Fulton, New York

## 3422— Exhaust Heads

**ABENDROTH & ROOT MFG. CO.** ("Root" & "Hudson"), Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.) ("Stein's" 1 in. to 42 in.), 39 Cortlandt, New York
Ambrose Machine Co. ("Peerless"), Provost, Brooklyn, N. Y.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
Atwood & Morrill ("XX Century"), Salem
Bolton, R. P., 527 5th av, New York Mass.
Burt Mfg. Co. ("Burt" & "Standard"), 32 Main, Akron, O.
Bushnell, Jno. S. & Co., 174 Fulton, New York
Chicago Eng. Supply Co. ("Champion"), 112 Lake, Chicago, Ill.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Direct Separator Co. ("Sweet"), Syracuse, N. Y.
Dixie Mfg. Co. ("Dixie"), Baltimore, Md.
Empire Blower & Pipe Co. (Steam), Rochester, N. Y.
**GARDNER GOVERNOR CO. ("Gardner").** Quincy, Ill. (See adv. index & branch offices, end of book)
Gillis & Geoghegan ("Hoey"), 537 W B'way, New York
Hoppes Mfg. Co. (Cast Iron), Springfield, O.
Hussey, McCann & Co., 87 Warren, New York
Imperial Iron Works (Cast Iron), Duluth, Minn.
**INDUSTRIAL INSTRUMENT CO.** ("Eclipse"), Foxboro, Mass. (See adv. index & branch offices, end of book)
Johnston, W. T. & Co., Cincinnati, O.
Kelley, Benj. F. & Son, 26 Cortlandt, New York
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Kruger & Blind Co. (Centrifugal), 511 Master,
Lee, Thomas, Cincinnati, O. Phila., Pa.
Liberty Mfg. Co., Pittsburg, Pa.
Linton Machine Co., 26 Cortlandt, New York
Littleford Bros., 453 E Pearl, Cincinnati, O.
Miller, J. K. Co. ("Western"), Seattle, Wash.
Ohio Blower Co. ("Swartout" Cast Iron), Cleveland, O.
Patterson, Frank L & Co., 26 Cortlandt, N. Y.
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh," Vacuum, also "Gaco"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Prentice, L. H. Co., 34 Sherman, Chicago, Ill.
Robertson, Jas. L. & Son (Inc.), 78 Murray, New York
Ruggles, Walter B. Co. ("R.-K."), Boston,
Rutzler, E. Co., 404 E 49th, New York Mass.

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**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)
**SIMMONS, JOHN CO., 110 Centre, New** York. (See adv. index, end of book)
Simonds Heating & Specialty Co. ("Simonds").
Sims Co., Erie, Pa. Grand Rapids, Mich.
**Sorge, A., Jr. Co., Monadnock bldg., Chicago,** Ill.
**Standard Steam Specialty Co. (Utility), 542 W** B'way, New York
Steam Appliance Co. ("Triumph"), Milwaukee, Wis
**Sterling Blower & Pipe Mfg. Co., Hartford,** Conn.
**Strandwitz & Scott ("Common Sense"), Cam-** den, N. J.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
**THOMAS & SMITH (Inc.), 116 N Car-**penter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
Thompson, Richard & Co., 126 Liberty, New York
**Unique Engineering Co. ("Unique" Turbine),** 100 Hinsdale, Brooklyn, N. Y.
**Watson & McDaniel Co. ("McDaniel," "Key-**stone"), 146 N 7th, Phila., Pa.
**WHITLOCK COIL PIPE CO., Hart-**ford, Conn. (See adv. index, end of book)
Wright Mfg. Co. ("Cyclone"), Detroit, Mich.
Young Bros. Co. ("The Cyclone"), Detroit, Mich.

## 3423—Exhaust & Blow Piping

Abendroth & Stein (Inc.) (Straight Riveted Flanged), 39 Cortlandt, New York
Allington & Curtis Mfg. Co., Saginaw, Mich.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
Banister, A. W., 35 Wareham, Boston, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Cyclone Blow Pipe Co., 541 W Jackson blvd, Chicago, Ill.
Dixie Mfg. Co., Baltimore, Md.
**Empire Blower & Pipe Co., Rochester, N. Y.**
Folsom, C. G. Mfg. Co., South Bend, Ind.
**Garden City Fan Co., Fisher bldg, Chicago, Ill.**
Haines & Co., 1933 W Lake, Chicago, Ill.
Lee, Thos., 130 W 2d, Cincinnati, O.
Littleford Bros., Cincinnati, Ohio.
Mannen & Esterly Co., Cleveland, O.
Meadon's Blower & Pipe Works, 25 Meserole av, Brooklyn, N. Y.
National Blower Works, Milwaukee, Wis.
New Orleans Roofing & Metal Works, New Or-
Ohio Blower Co., Cleveland, O. leans, La.
Porbeck, Otto, 2017 B'way, St. Louis, Mo.
Savannah Blow Pipe & Exhaust Co., Savannah, Ga.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Skinner Bros., 1013 N B'way, St. Louis, Mo.
Skinner, D. B. & Bro., 1948 N 9th, St. Louis, Mo.
Spiral Riveted Tube Co., 74 Cortlandt, New York, & Jersey City, N. J.
Sterling Blower & Pipe Mfg. Co., Hartford, Conn.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Tennessee Blow Pipe Co. (Inc.), Chattanooga, Tenn.
Union Sheet Metal Works, Independence, Kan.
United States Blowpipe & Hydraulic Works, Pacific blk, Seattle, Wash.
Venderbush & Looman, Detroit, Mich.
Wulff, W. C. & Co., Louisville, Ky.

## 3424— Exhausters (Acid)

Didier-March Co. (Stoneware), 30 Church, New York
Graham, Chas. Chemical Pottery Works (Stone-ware), Brooklyn, N. Y.
Pratt Engineering & Machine Co. ("Imperial"), Atlanta, Ga.

## 3425—Exhausters (Electric)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Green Fuel Economizer Co., Matteawan, N. Y.
Ilg Electric Ventilating Co., 154 Whitney, Chicago, Ill.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**MECHANICAL APPLIANCE CO., Mil-**waukee, Wis. See adv. index, end of book)
Sprague Electric Co., 527 W 34th, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg., Pittsburg Pa. (See adv. index & branch offices, end of book)

## 3426— Exhausters (Gas)

American Blower Co., Detroit, Mich.
**BEACH-RUSS CO., 55-59 Green,** Brooklyn, N. Y. (See adv. index, end of book)
Brewster Engineering Co. ("Brewster" Ro-tary), 50 Church, New York
Buffalo Forge Co., Buffalo, N. Y.
Connersville Blower Co. (& Fittings), Conners-ville, Ind.
**Garden City Fan Co., Fisher bldg, Chicago,**
**Gas Machinery Co., Cleveland, O. Ill.**
Green Fuel Economizer Co., Matteawan, N. Y.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
Isbell-Porter Co. ("Mackenzie"), Newark, N. J.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Natural Power Co., St. Louis, Mo.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
Parson Mfg. Co. ("Parson"), 149 B'way, New
**Piqua Blower Co., Piqua, O.** York
Pratt Engineering & Machine Co., Atlanta, Ga.
**ROCKWELL FURNACE CO., 26 Cort-**landt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**Roots, P. H. & F. M. Co. (& Fittings), Con-nersville, Ind.**
**Schutte & Koerting Co., 1251 N 12th, Phila., Pa.**
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Wilbraham-Green Blower Co., Pottstown, Pa.

## 3427—Exhausters (Planing Mill, Etc.)

Allington & Curtis Mfg. Co., Saginaw, Mich.
American Blower Co., Detroit, Mich.
Banister, A. W., 421 Dorchester av, S B, Bos-
Bayley Mfg. Co., Milwaukee, Wis. ton, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.
**Electric Blower Co. ("Marvel"), Boston, Mass.**
Exeter Machine Works, Exeter, N. H.
**Garden City Fan Co., Fisher bldg, Chicago, Ill.**
Green Fuel Economizer Co., Matteawan, N. Y.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
Indiana Fan Co., Indianapolis, Ind.
Kirk & Blum, Cincinnati, O.
Massachusetts Fan Co., Watertown, Mass.
Miller, J. K. Co. ("Western"), Seattle, Wash.
National Blower Works, Milwaukee, Wis.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
Sterling Blower & Pipe Mfg. Co., Hartford, Conn.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Wing, L. J. Mfg. Co., 90 West, New York

## 3428—Exhausters (Pump & Engine Starting)

**Schutte & Koerting Co., 1251 N 12th, Phila., Pa.**

## 3429—Exhausters (Steam Jet)

(See also Gas Works Apparatus & Construction)
**Continental Iron Works, West & Caylor,** Brooklyn, N. Y.
Isbell-Porter Co., Newark, N. J.
Kerr-Murray Mfg. Co. (Also Rotary), Fort Wayne, Ind.
Lloyd Construction Co., Detroit, Mich.

## 3429a—Exhibition Cases (Metal for Museums)

**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)

## 3430— Exhibitors (Rug)

Consolidated Carpet Sewing Machine Co. ("E-Z" Book, "20th Century," "Eschweiler" Track), Bridgeport, Conn.
Justus Display Rack Co., Clarksburg, W. Va.
Reliable Rug Rack Co., 303 E. 47th, Chicago, Ill.
Taft Machine Co. ("Taft Almetul"), Providence, R. I.


# NOTICE.

This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

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## 3430a—Expanded Metal ("Steel-Crete" Mesh & Lathe)

(See also Expanded Metal)

**CONSOLIDATED EXPANDED METAL** Co.'s, Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3431— Expanders (Hose)

**Elkhart Brass Mfg. Co., Elkhart, Ind.**
Hayward, S. F. & Co., 39 Park pl., New York.
Larkin Mfg. Co. ("Buckley" Hydraulic), Dayton, O.
**Sherman, H. B. Mfg. Co., Battle Creek, Mich.**
Universal Nozzle Co., Indianapolis, Ind.

## 3432— Expanders (Tube)

(See also Pneumatic Flue Expanders)

Ajax Mfg. Co. ("Collins" Self-Feed & Roller), N S, Pittsburg, Pa.
Bullock, Chas. K. (Boiler), 1361 Ridge av., Phila., Pa.
**DUDGEON, RICHARD (Boiler), 24 Columbia, New York. (See adv. index, end of book)**
Faessler, J., Mfg. Co. ("Boss Roller," "Universal" Roller Flue, etc.), Moberly, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fernyak & Stavenik Machine Co. (Flue Expander & Cutter), Mansfield, O.
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of Hayes Tool Co., Biddeford, Me. book)
**HELWIG MFG. CO. ("Helwig" Hand & Power, Self-Feeding Flue), St. Paul, Minn. (See adv. index, end of book)**
Henderer's, A. L. Sons ("Ferguson," Self-Feed Roller), Wilmington, Del.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 169 Chambers, New York
King, A. R. Mfg. Co., Kingston, N. Y.
Liberty Mfg. Co. (Combined Tube Cutter & Expander), Pittsburg, Pa.
Lovejoy Tool Works (All Steel Ball Bearing Self-Feeding Roller, for Hand or Power, also Sectional Spring), 355 W Ohio, Chicago, Ill.
Lovekin Pipe Expanding & Flanging Machine Co. ("Lovekin," Flue Expanding Tool), 421 Chestnut, Phila., Pa.
Nicholson, W. H. & Co. ("Nicholson" Self-Feeding & Self-Releasing Roller), Wilkes-Barre, Pa.
Oswego Tool Co. ("World's Champion" Spring, "Boss," "Giles" & "Tonkin"), Oswego, N. Y.
Prosser, Thos. & Son, 15 Gold, New York
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**WATSON-STILLMAN CO. ("Atlas"),** 38 Church, New York. (See adv. index, end of book)
Wiedeke, Gustav & Co. ("Ideal," Self-Feed Roller, "Montgomery," "Dayton" "Standard" Rollers, & Sectional Spring), Dayton, O.

## 3433— Expellers (Oil)

Anderson, V. D. Co., Cleveland, O.

## Exploders

(See Blasting Fuses, Caps, Etc.)

## 3434—Exploders (Cartridge)

Susquehanna Casting Co., Wrightsville, Pa.

## 3434a— Explosives

(See Powder Manufacturers, Dynamite Manufacturers, Etc.)

## 3435—Explosives (Titanite)

Waclark Titanite Explosive Co. (Safety), Corry, Pa.

## 3436—Express Company Call

**ELEVATOR SUPPLY & REPAIR CO.** ("Road's"), 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

EXPRESS CALL
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ELEVATOR SUPPLY & REPAIR CO.
105 W. 40TH. ST. NEW YORK
561 W. MONROE ST. CHICAGO
593 MARKET ST., SAN FRANCISCO, CAL.

## 3437— Extensometers

Taylor Instrument Co.'s ("Cambridge," "Ewing"), Rochester, N. Y.

## 3437a—Extract Plants (Tanning)

**BADGER, E. B. & SONS CO. (Apparatus For),** 75 Pitts, Boston, Mass. (See adv. index, end of book)

## 3438—Extractors (Cotter Pin)

Braunsdorf-Mueller Co., Elizabeth, N. J.
**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)
Kraeuter & Co., Newark, N. J.
S. & I. Co. ("S. & I."), Springfield, Mass.

## 3439—Extractors (Curb, Clothes Wringing)

Troy Laundry Machinery Co. ("Troy," Solid), 33 Warren, New York, & 23d & Lasalle, Chicago, Ill.

## 3440—Extractors (Cyanide Vat)

Blaisdel Co., Los Angeles, Cal.

## 3441— Extractors (Ingot)

Mesta Machine Co., Pittsburg, Pa.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index, end of book)
United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

## 3442—Extractors (Lemon Juice)

Hero Mfg. Co. (Aluminum), Gaul & Adams, Phila., Pa.

## 3443—Extractors (Mandrel)

**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (Hydraulic & Belt Driven), Pittsburg, Pa.

## 3444—Extractors (Meat Juice)

Wrightsville Hardware Co. ("Brighton"), Wrightsville, Pa.

## Extractors (Oil)

(See Oil & Grease Extractors; also Separators, Steam & Oil)

## 3445— Extractors (Tap)

Graham Mfg. Co., Providence, R. I.
Walton Co. ("Walton"), Hartford, Conn.

## 3446— Extractors (Tar)

Gas Machinery Co., Cleveland, O.
Buffalo Forge Co., Buffalo, N. Y.
Isbell-Porter Co. ("Aeso," "P. & A." for Water Gas), Newark, N. J.

## 3447— Extracts (Bark)

Escanaba Extract Co. (Hemlock), Escanaba, Mich.
Marden, Orth & Hastings (Hemlock, Palmetto, Oak, etc.), Boston, Mass.
Miller Tanning Extract Works, Millerton, New Brunswick, Canada

## 3448—Extracts (Dyewood)

American Dyewood Co., 84 William, New York
Innis. Speiden & Co., 46 Cliff, New York
Jamaica Dyewood & Chemical Co. ("Rio D'Oro" Brand), 50 Church, New York
Klipstein, A. & Co., 82 Beaver, New York
Lewis, Jno. D., Providence, R. I.
Marden, Orth & Hastings, Boston, Mass.
Metz, H. A. & Co., 122 Hudson, New York
National Aniline & Chemical Co., 100 William, New York
Stamford Mfg. Co. (Logwood, etc.), 82 Wall, New York; Factory: Stamford, Conn.

## 3449— Extracts (Indigo)

Cochrane Chemical Co., Boston, Mass.

## 3450—Extracts (Tanning)

Champion Fibre Co., Canton, N. C.
Cherokee Tanning Extract Co., Andrews, N. C.
Marden, Orth & Hastings (Quebracho, etc.), Boston, Mass.
Muskegon Extract Co., Muskegon, Mich.
New York Tanning Extract Co. (Quebracho, etc), 17 Battery pl, New York
Stamford Mfg. Co. (Quebracho, etc.), 82 Wall, New York, & Stamford, Conn.

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Keenan Bldg., PITTSBURG, PA.

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## Eye Glasses
(See Lenses)

## Eye Shades
(See Goggles & Eye Protectors)

## 3451— Eyelet Mfrs.
Agatine Shoe Hook & Eyelet Co. (Shoe), Newark, N. J.
American Ring Co., Waterbury, Conn.
Atlas Tack Co. (Shoe & Corset), Fairhaven, Conn.
Caseley & Nelmes, Taunton, Mass.
Halkyard Mfg. Co., Providence, R. I.
Hughes Eyelet Co., Taunton, Mass.
Platt Bros., Waterbury, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn
Rhodes, J. C. & Co. (Inc.), New Bedford, Mass.
Rimmon Mfg. Co., Seymour, Conn.
S. O. & C. Co. (Shoe, Corset, etc.), Ansonia, Conn.
Sibley, E. L., Bennington, Vt.
Stimpson's, Edwin B. Sons (All Kinds), 31 Spruce, New York
Thompson, J. L. Mfg. Co., Waltham, Mass.
Tubular Rivet & Steel Co., Boston, Mass.
United Shoe Machinery Co. ("Diamond," Fast Color), 205 Lincoln, Boston, Mass.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Button Co., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.

## 3452— Eyelet Sets
Johnson, W. S. (Hedenberg Wks), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.

## 3453—Eyes (Brass & Bright Wire)
Jenckes, E. Mfg. Co. (Screw, Stair Rod, Bird Cage, Harness, Hitching, Storm Window, Strop, etc.), Worcester, Mass.

## 3454— Eyes (Screw)
Jenckes, E. Mfg. Co. (Bright & Brass Wire), Worcester, Mass.

## Fabricators (Steel Building)
(See Steel Structural Work)

## 3455— Facing Arms
Underwood, H. B. & Co. (Portable), 1027 Hamilton, Phila., Pa.

## 3456—Fans (Battery Motor)
Electric Motor & Equipment Co. ("Beaver"), Newark, N. J.
Kendrick & Davis ("Ajax," "Standard," "Kent"), Lebanon, N. H.
Knapp Electric & Novelty Co. ("Kenco"), 511 W. 51st, New York
Manhattan Electric Supply Co., 17 Park Pl., New York
Ohio Electric Works, Cleveland, O.

## Fans (Ceiling)
(See Fans, Ceiling Belted; also Fans, Ceiling, Electric; also Fans, Water Motor)

## 3457—Fans (Ceiling, Belted)
Bates, D. L. & Bro. Co., Dayton, O.
Dayton Fan & Motor Co., Dayton, O.
Diehl Mfg. Co., Elizabeth, N. J.
Hunter Fan & Motor Co. ("Tuerk's"), Fulton, N. Y.
McLeod, Ward & Co. ("Van Houten"), 27 Thames, New York
Ochsner, A. & Son, New Haven, Conn.
Seymour, J. M., Jr., Newark, N. J.

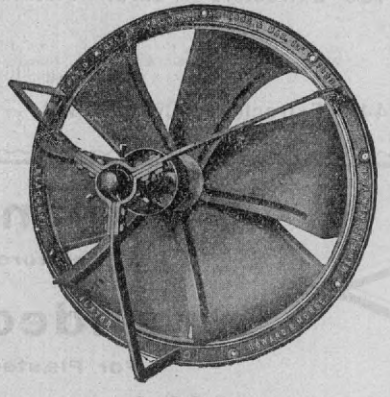
## 3458—Fans (Ceiling, Electric)
Adams Electric Co. (Direct Current), Trenton, N. J.
Adams-Bagnall Electric Co. ("Jandus," Alternating & Direct Current), Cleveland, O.
Bates, D. L. & Bro. Co. (Direct Current), Dayton, Ohio
Century Electric Co. ("Century," Alternating Current), St. Louis, Mo.
Dayton Fan & Motor Co. (Direct Current), Dayton, O.
Diehl Mfg. Co. (Direct Current), Elizabeth, N. J.
**ECK DYNAMO & MOTOR CO. ("Eck** Hurricane"), Belleville, N. J. (See adv. index, end of book)
Emerson Electric Mfg. Co. ("Trojan," "Emerson," Alternating & Direct Current, Stationary & Portable), St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fidelity Electric Co. (Direct Current), Lancaster, Pa.
Fort Wayne Electric Works (Direct Current, Portable), Fort Wane, Ind.
**GENERAL ELECTRIC CO. (Direct** Current), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Hunter Fan & Motor Co. ("Tuerk," Direct & Alternating Current), Fulton, N. Y.
National Electric Supply Co. ("Crescent," Direct Current), Washington, D. C.
Peerless Electric Co. ("Peerless," Direct Current), Warren, Ohio
Robbins & Myers Co. ("Standard," Direct & Alternating Current), Springfield, O.
Sprague Electric Co. ("Lundell," Direct Current), 527 W 34th, New York
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3459— Fans (Centrifugal)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**HOWARD & MORSE ("Blackman" &** "Duplex Cone"), 46 Fulton, New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.: Works: Bucyrus, O.
Stine, S. B., Osceola Mills, Pa.

## Fans (Desk & Office)
(See Fans, Electric, Portable, Alternating Current; also Fans, Electric Portable, Direct Current)

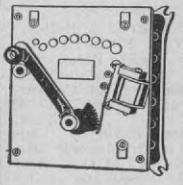
## 3460—Fans (Electric Disc, Direct Connected)
American Blower Co. ("A B C," "Cyclone"), Detroit, Mich
Diehl Mfg. Co., Elizabeth, N. J.
**ECK DYNAMO & MOTOR CO., Belle**ville, N. J. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

THE
BLACKMAN
VENTILATOR



Over 9,800 in Use
CATALOGUE
HOWARD & MORSE
46 Fulton St., NEW YORK, N. Y.

Fuller Co., Detroit, Mich.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Green Fuel Economizer Co., Matteawan, N. Y.
Holtzer-Cabot Electric Co., Brookline, Mass.
**HOWARD & MORSE ("Blackman" &** "Duplex Cone"), 46 Fulton, New York. (See adv. index, end of book)
Johnston, Wm. T. Co., Cincinnati, O.
Massachusetts Fan Co., Watertown, Mass.
**MECHANICAL APPLIANCE CO.** ("Watson"), Milwaukee, Wis. (See adv. index, end of book)
National Blower Works, Milwaukee, Wis.



Speed Regulators for motor driven apparatus of every kind, such as fans, blowers, etc.
THE CUTLER-HAMMER MFG CO., Milwaukee.

**New York Blower Co., 25th & Stewart av,** Chicago, Ill.
Peerless Electric Co., Warren, O.
Rochester Electric Motor Co., Rochester, N. Y.
Sprague Electric Co., 257 W 34th, New York
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Wagner Electric Co., St. Louis, Mo.
Western Electric Co., Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3461—Fans (Electric Portable, Alternating Current)
Diehl Mfg. Co., Elizabeth, N. J.
Emerson Electric Mfg. Co. ("Trojan," "Emerson"), St. Louis, Mo.
Fidelity Electric Co., Lancaster, Pa.
Fort Wayne Electric Works, Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Peerless Electric Co., Warren, O.
Shedd Electric Co. ("Comfort"), Roselle, N. J.
Western Electric Co., Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3462—Fans (Electric Portable, Direct Current)
Adams-Bagnall Electric Co. ("Jandus," Direct Current), Cleveland, O.
Bates, D. L. & Bro. Co., Dayton, O.
Commercial Electric Supply Co., St. Louis, Mo.
Dayton Fan & Motor Co., Dayton, O.
Diehl Mfg Co. ("Universal"), Elizabeth, N. J.
Dover Electric Mfg. Co., Canal Dover, O.
**ECK DYNAMO & MOTOR CO. ("Eck** Hurricane"), Belleville, N. J. (See adv. index, end of book)
Emerson Electric Mfg. Co., St. Louis, Mo.
Fidelity Elec. Co. ("Eclipse"), Lancaster, Pa.
Fort Wayne Electric Works, Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Manhattan Supply Co., 17 Park Pl., New York
National Electric Supply Co. ("Crescent"), Washington, D. C.
Peerless Electric Co., Warren, O.
Robbins & Myers Co. ("Standard"), Springfield, Ohio
Roth Bros. & Co., 27 S Clinton, Chicago, Ill.
Shedd Electric Co. ("Comfort"), Roselle, N. J.
Sprague Electric Co. ("Lundell"), 527 W 34th, New York
Western Electric Co., Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

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## 3463—Fans (Exhaust or Ventilating)

(See also Blowers, Various Kinds; also Fans, Mine Ventilating; also Fans, Electric, Various Kinds)

### CONNECTICUT.

WINDSOR LOCKS—Clark, George P. Co.

### ILLINOIS.

CHICAGO—Cyclone Blow Pipe Co., 541 W Jackson boul
**FAIRBANKS, MORSE & CO.** 481 Wabash av. (See adv. index, end of book)
Garden City Fan Co., Fisher bldg
Ilg Electric Ventilating Co. (Self Cooled Motor), 154 Whitney
New York Blower Co., 235 W 25th. Works, Bucyrus, O.
Raymond Bros. Impact Pulverizing Co., 1500 W Harrison
**STURTEVANT, B. F. CO., 530 S** Clinton. (See adv. index, end of book)

### INDIANA.

CONNELLSVILLE—Roots, P. H. & E. M. Co.
INDIANAPOLIS—Nordyke & Marmon Co.

### MARYLAND.

BALTIMORE—Dixie Mfg. Co.

### MASSACHUSETTS.

BOSTON—Banister, A. W., 421 Dorchester av, S. B.
Barney Ventilating Fan Works (Compound) (A. B. Franklin, Prop.), 24 Bin-
HOLYOKE—Perkins, B. F. & Sons ford
HYDE PARK—**STURTEVANT, B. F.** Co. (See adv. index, end of book)
WATERTOWN—Massachusetts Fan Co.

### MICHIGAN.

DETROIT—American Blower Co.
Fuller Co., 1565 Russell
KALAMAZOO—Clarage Foundry & Mfg. Co.
SAGINAW—Allington & Curtis Mfg. Co.

### MISSOURI.

ST. LOUIS—Emerson Electric Mfg. Co.
Wagner Electric Mfg. Co. (Belted Electrically Driven)

### NEW HAMPSHIRE.

EXETER—Exeter Machine Works

### NEW JERSEY.

ELIZABETH—Diehl Mfg. Co.
HARRISON—**WALSH'S SONS & CO. (See** adv. index, end of book)
NEWARK—Backus Water Motor Co.
Seymour, J. M., Jr.

### NEW YORK.

BUFFALO—Buffalo Forge Co.
FULTON—Hunter Fan & Motor Co. ("Tuerk," Electric & Belt)
MATTEAWAN—Green Fuel Economizer Co.

### NEW YORK CITY.

NEW YORK—Banks, F. S. & Co. ("Whiteman"), 57 Warren
**GODFREY-KEELER CO., 70 War-** ren (See adv. index, end of book)
**HOWARD & MORSE ("Black-** man" & "Duplex" Cone), 46 Fulton. (See adv. index, end of book)
Power Specialty Co., 111 B'way
**STURTEVANT, B. F. CO., 50** Church. (See adv. index, end of book)
Wing, L. J. Mfg. Co., 90 West
SCHENECTADY—**GENERAL ELECTRIC** Co. (See adv. index & branch offices, end of book)
TROY—Tolhurst Machine Works (Ventilating)

### OHIO.

BUCYRUS—New York Blower Co. (See Chicago, Ill.
CANAL DOVER—Dover Electric Mfg. Co.
CINCINNATI—Johnston, Wm. T. Co.
CLEVELAND—Bartlett Bros. Co., 178 Huron
SPRINGFIELD—Robbins & Myers Co. (For Small Rooms, etc.)
WARREN—Peerless Electric Co. (Electric)

### PENNSYLVANIA.

LANCASTER—Champion Blower & Forge Co.

### RHODE ISLAND.

PROVIDENCE—New England Ventilating & Heating Co.

### WISCONSIN.

MILWAUKEE—Bayley Mfg. Co.
**MECHANICAL APPLIANCE CO. (Motor** Driven). (See adv. index, end of book)
National Blower Works

## 3464—Fans (Mine Ventilating)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end
Buffalo Forge Co., Buffalo, N. Y. of book)
Clifford Cappell Fan Co. ("Cappells"), Jeannette, Pa.
Cole, W. E. (Steam), Washington, Ind.
Connellsville Machine & Car Co., Connellsville, Pa.
Connellsville Mfg. & Mine Supply Co., Connellsville, Pa.
Crawford & McCrimmon Co., Brazil, Ind.
Danville Foundry & Machine Co., Danville, Ill.
Denver Engineering Works Co., Denver, Colo.
Dixie Mfg. Co., Baltimore, Md.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Eagle Iron Works (Direct Connected), Des Moines, Ia.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Finch Mfg. Co., Scranton, Pa.
Garden City Fan Co., Fisher bldg., Chicago, Ill.
**GENERAL ELECTRIC CO., Schenec-** tady, N. Y. (See adv. index & branch offices, end of book)
Hendy, Joshua Iron Works, San Francisco, Cal.
Herron-Webb Engineering Co. ("Capell"), Monongahela, Pa.
Herzler & Henninger Machine Works, Belleville, Ill.
**HOWARD & MORSE ("Blackman" &** "Duplex Cone"), 46 Fulton, New York. (See adv. index, end of book)
**JEFFREY MFG. CO. ("Jeffrey,"** Centrifugal), Columbus, O. (See adv. index & branch offices, end of book)
Johnston, Wm. T. Co., Cincinnati, O.
Litchfield Foundry & Machine Co., Litchfield, Ill.
Marine Iron Works, Bay City, Mich.
Mullen, Jno. & Son, Shamokin, Pa.
Nelsonville Fdy. & Machine Co., Nelsonville, O.
Ottumwa Iron Works, Ottumwa, Ia.
Power Specialty Co., 111 B'way, New York
Scottdale Fdry & Machine Co., Scottdale, Pa.
South Side Foundry & Machine Works ("Kanawha"), Charleston, W. Va.
Southern Illinois Machine & Foundry Co., Murphysboro, Ill.
Stine, J. C., Co. (6 to 30 ft in diameter), Tyrone, Pa.
Stine, S. B., Osceola Mills, Pa.
**SULLIVAN MACHINERY CO., People's** Gas bldg, Chicago Ill. (See adv. index & branch offices, end of book)
United Iron Works Co., Springfield, Mo.
Vulcan Iron Works, Wilkes-Barre, Pa.
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Wing, L. J. Mfg. Co., Albany & West, New York

## 3465—Fans (Propeller)

Garden City Fan Co., Fisher bldg., Chicago, Ill.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill. Works, Bucyrus, O.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices. end of book)

## 3466—Fans (Radiator)

A. Z. Co., 527 W 56th, New York
Briscoe Mfg. Co., Detroit, Mich.
Hunt & Dorman Mfg. Co., 2102 Superior av N. E., Cleveland, O
Kells, W. J. Mfg. Co., 726 11th av, New York
Kinsey Mfg. Co., Toledo, O.
McCord Mfg. Co., Detroit, Mich.
New Britain Sheet Metal Co., New Britain Conn
Reliable Radiator Co., 451 E 173d, New York
Sparks-Withington Co. (Ltd.), Jackson, Mich.

## 3467—Fans (Roof Ventilating)

Bicalky Fan Co. ("Bicalky"), Buffalo, N. Y.

## 3467a—Fans (Steel Plate)

**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## Fans (Ventilating)

(See Fans, Exhaust or Ventilating)

## Fans (Ventilating, Engine Connected)

(See Blower Manufacturers)

## 3468—Fans (Water Motor)

Backus Water Motor Co., Newark, N. J.
Bates, D. L. & Bro. Co., Dayton, O.
Chicago Water Motor & Fan Co., 40 Dearborn, Chicago, Ill.
**Hunter Fan & Motor Co., Fulton, N. Y.**
**Indiana Fan Co. (Desk & Column), Indianapolis, Ind.**
Rosenberg, A., Motor & Mfg. Co., Baltimore, Md.
Seymour, James M., Jr., Newark, N. J.

## 3469—Fasteners (Bale Tie)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**CARY MFG. CO., 29 Roosevelt, New** York. (See adv. index, end of book)

## 3470—Fasteners (Basement Window)

Diehl Novelty Co. ("Diehl"), Sheboygan, Wis.

## 3471—Fasteners (Bedstead)

American Foundry & Mfg. Co., St. Louis, Mo.
American Mfg. Co., Chattanooga, Tenn.
Clark Mfg. Co., Buffalo, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Shelton Co., Shelton, Conn.
Susquehanna Casting Co., Wrightsville, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.

## 3472—Fasteners (Blind)

Boston Pressed Metal Co., Worcester, Mass.
Columbian Hardware Co., Cleveland, O.
Eagan, Thos. F. Hardware Co. (Storm Window), Worcester, Mass.
Folsom Snow Guard Co., 7 Water, Boston, Mass.
Ives, H. B. Co., New Haven, Conn.
Mallory Mfg. Co., Flemington, N. J.
National Shutter Bar Co., Frederick, Md.
Orr, Galen & Co., Needham, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Susquehanna Casting Co., Wrightsville, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.
Zimmerman, Harry & Co. ("Zimmerman" All Steel Shutter Fastener), Fremont, O.

## 3473—Fasteners (Box)

Shook), Archer & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**CARY MFG. CO. (Box Board & Shook),** 29 Roosevelt, New York. (See adv. index, end of book)
Crescent Metal Strap Co., 8 Peck Slip, New York
De Haven Mfg. Co., 50-54 Columbia Heights, Brooklyn, N. Y.
Independent Steel Co. of America, Kenova, W. Va.
Ryan, M. C. Co. (For Boxes & Crates), Phoenix, N. Y.
**STANLEY WORKS, New Britain,** Conn. (See adv. index, end of book)
U. S. Box Lock Co. (Boxes & Crates), St Louis, Mo.

## 3474—Fasteners (Button)

Heaton-Peninsular Button Fastener Co. ("Heaton," "Peninsular," "Apex"), Boston, Mass.
Trojan Button Fastener Co., Troy, N. Y.

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## 3475—Fasteners (Car Door)

Hope Car Door Fastener Co., Chambersburg, Phila., Pa.
National Railway Devices Co., 84 Van Buren, Chicago, Ill.
Western Railway Equipment Co., St. Louis, Mo.

## 3476—Fasteners (Chain Door)

Yale & Towne Mfg. Co., 9 Murray, New York

## 3477— Fasteners (Cloth)

Salisbury Mfg. Co. (For Rolls of Cloth, etc.), Providence, R. I.

## 3477a—Fasteners (Combination Nail & Screw)

**STAR EXPANSION BOLT CO.** ("Sebco"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 3478—Fasteners (Conductor Pipe)

**BERGER MFG. CO. (Adjustable),** Canton, O. (See adv. index & branch offices, end of book)

## 3479—Fasteners (Conduit)

**Hart & Hegeman Mfg. Co. (For Holding Flexible Conduits in Wall Cases),** Hartford, Conn.

## 3480—Fasteners (Corrugated Joint)

**ACME STEEL GOODS CO. ("Acme"),** Archer & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3481—Fasteners (Corrugated Steel)

**CARY MFG. CO., 29 Roosevelt, New** York. (See adv. index, end of book)
Corrugated Steel Nail Co., Springfield, O.
De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Independent Steel Co. of America, Kenova, W. Va.
Shanafelt Mfg. Co., Canton, O.
Smallwood, W. R. Mfg. Co., Gowanda, N. Y.
**STANLEY WORKS, New Britain,** Conn., & 79 Chambers, New York. (See adv. index, end of book)
Williamsport Joint Fastener Co., Williamsport, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.

## 3482—Fasteners (Curtain)

Carr, F. S., 74 Pearl, Boston, Mass.
Cowles, C. & Co., New Haven, Conn.
Crandall, Stone & Co. ("Pioneer" Vehicle), Binghamton, N. Y.
Neider, F. A. Co., Augusta, Ky.
Roehm & Davison (Ltd.), Detroit, Mich.
Smith, Jos. N. Co., Detroit, Mich.
Weiss, Chas. & Son, 4725 Cottage Grove av, Chicago, Ill.

## 3483—Fasteners (Freight Car Door)

Dayton Malleable Iron Co., Dayton, O.

## 3484—Fasteners (Guard Rail)

American Guard Rail Fastener Co. (Pressed Steel & Malleable Iron), Real Estate Trust bldg, Phila., Pa.
Bossert, W. F. Mfg. Co., Utica, N. Y.
Cleveland Frog & Crossing Co., Cleveland, O.
Cleveland Railway Supply Co., Cleveland, O.
Morden Frog & Crossing Works, 115 Adams, Chicago, Ill.
Q. M. S. Co. ("American"), Plainfield, N. J.
Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington, Phila., Pa.

## 3485—Fasteners (Hame & Collar)

American Mfg. Co. ("Boss"), Chattanooga, Tenn.
Berry, Chas. E. ("Berry"), Somerville, Mass.
Covert's Saddlery Works ("Dandy"), Interlaken, N. Y.
Dodson Saddlery Co. ("Dodson"), Dallas, Tex.
Foote, J. B. Fdry Co. ("Handy"), Fredericks-town, O.
Gonce Lock & Mfg. Co. ("Gonce"), Chattanooga, Tenn.
Greene, G. G. ("G-G-G"), Warren, Pa.
National Safety Snap Co. ("Kling"), Wilmington, O.
**NIAGARA FALLS METAL STAMPING** Works ("Dodson" & "Premax"), Niagara Falls, N. Y. (See adv. index, end of book)
North, O. B. & Co. ("Success"), New Haven, Conn.
North & Judd Mfg. Co. (Improved "Success"), New Britain, Conn.
Nott, W. S. Co. ("Concord," "Perfect"), Minneapolis, Minn.
Weldless Chain Co. ("Perfect"), Bridgeport, Conn.

## 3486— Fasteners (Hoop)

**AMERICAN STEEL & WIRE CO.,** Commerce Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3487—Fasteners (Horse Blanket)

American Snap Co. ("Hubbard"), Ashtabula, Ohio

## 3488—Fasteners (Nut & Bolt)

American Nut & Bolt Fastener Co. ("Bartley" for Splice Joints, Car Trucks, etc.), North Side, Pittsburg, Pa.
Flannery, J. Rogers & Co., Pittsburg, Pa.
Jones Positive Nut Lock Co., 2812 Wabash av, Chicago, Ill.
National Supply & Equipment Co., 193 Michigan av, Chicago, Ill.

## 3489— Fasteners (Paper)

Benedict & Burham Mfg. Co. ("McGill"), Waterbury, Conn.
Clipless Paper Fastener Co. ("Clipless"), Newton, Ia.
De Long Hook & Eye Co. ("Twin Grip"), Phila., Pa.
Hotchkiss, E. H. Co. (Fastener & Tacker), Kelly, F. Co., Derby, Conn. Norwalk, Conn.
O. K. Mfg. Co. (Inc.) ("Washburne's-O-K" Adjustable), Syracuse, N. Y.
Salisbury Mfg. Co. ("Salisbury"), Providence, R. I.
Thomas Stationery Mfg. Co. (For the Counting House), Springfield, Mass.
West Mfg. Co. ("Only"), 1112 Chestnut, Phila., Pa.

## 3490— Fasteners (Sash)

Champion Safety Lock Co. ("Champion," "Euclid" & "Monitor" Never Break), Geneva, O.
Corbin, P. & F., New Britain, Conn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Ives, Hobart B. Co. ("Crescent"), New Haven, Conn.
Judd, Rollin D., New Britain, Conn. Conn.
Norwalk Lock Co., S Norwalk, Conn.
Onward Mfg. Co. ("Awbrite"), Menasha, Wis.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Schroeder, Anton, 888 Dayton av, St. Paul, Minn.
Smith, Frank F. Metal Window Hardware Co. ("Smith's" Adjustable), Newark, N. J.
Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

## 3491—Fasteners (Sash Cord)

S. & I. Co. ("Titan"), Springfield, Mass.

## 3492—Fasteners (Sash Weight)

S. & I. Co., Springfield, Mass.

## 3493— Fasteners (Seat)

Sovereign, C. E. Co., Rockford, Ill.

## 3494—Fasteners (Sheet Roofing)

**AMERICAN STEEL & WIRE CO.,** Commerce Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3495—Fasteners (Shutter)

Zimmerman, G. F. S. & Co. ("Zimmerman" All Steel), Frederick, Md.

## 3496— Fasteners (Slate)

Hamblin & Russell Mfg. Co., Worcester, Mass.

## 3497—Fasteners (Stair Carpet)

Pressed Steel Mfg. Co. ("Gem"), Land Title bldg, Phila., Pa.

## 3498—Fasteners (Storm Window)

Eagan, Thos. F., Worcester, Mass.
Kess, F. D. Mfg. Co. ('Kess-Gossett," Detachable Suspension Hinges), Beatrice, Neb.
Kieffer Bros., Syracuse, N. Y.
Phenix Mfg. Co. ("Phenix" Hanger & Fastener), Humbolt av c Center, Milwaukee, Wis.
**STANLEY WORKS, New Britain, Conn.** (See adv. index & branch offices, end of book)
Winter, R. G. Mfg. Co. ("Sensible"), Milwaukee, Wis.
Woodruff, W. W. & Sons Co. ("Doblers"), Mt. Carmel, Conn.

## 3498a—Fasteners (Typewriter)

Typewriter Economy Co. ("Merrow," Screwless), Tribune bldg, New York

## 3499—Fasteners (Window)

Edwards, O. M. Co., Syracuse, N. Y.
Little, O. C. Pulley Coating Co., Menasha, Wis.
**STANLEY WORKS, New Britain, Conn.** (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co. (Casement Window & Cellar Window), New Britain, Conn., & 96 Lafayette, New York
Shelby Spring Hinge Co., Shelby, O.
Woodruff, Walter W. & Sons Co. ("Doblers" Window & Shutter), Mount Carmel, Conn.

## 3499a—Fasteners & Hooks (Bed)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index &

## 3500— Faucets

(See also Cocks; also Cocks & Bibbs of Various Kinds)

Asbell, S. J. Co. (Brass), Paterson, N. J.
Automatic Tap & Faucet Co., Fort Edward, N. Y.
Bashlin Co., Warren, Pa.
Bishop-Babcock-Becker Co. (Bar), Cleveland, O.
Chambers & Co. (Beer, etc.), Newark, N. J.
Chicago Faucet Co. (Brass), 316 S Clinton, Chicago, Ill.
Clark Novelty Co. (Brass), Rochester, N. Y.
Craig, David Co. ("Craig" Automatic Sewing Basin), Boston, Mass.
Economy Faucet Co. ("Economy"), Providence, R. I.
Edwardsville Brass Co. (Brass), Edwardsville, Ill.
Haines, Jones & Cadbury Co., 1138 Ridge av, Phila., Pa.
Haydenville Co. (Compression, Fuller Pattern, Lever Handle & Self-Closing), Haydenville, Mass.
Landers, Frary & Clark (Milk Can, Cream Separator, Petroleum Oil, etc.), New Britain, Conn.
McKenna Bros. Brass Co., Pittsburg, Pa.
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO.** (Water Cooler, Oil Can, Milk Can & Coffee Urn), 227 Campbell av, Detroit, Mich. (See adv. index, end of book)
Messmer, Ferd Mfg. Co., St. Louis, Mo.
Meyer-Sniffen Co., 11 W 36th, New York
Mott, J. L. Iron Works, 118 5th av, New York
Peck Bros. & Co., New Haven, Conn.
Richards, T. C. Hardware Co., Winsted, Conn.
Sanitary Co. ("The Paragon"), Cleveland, O.
Standard Brass & Iron Works ("Standard," Bar Drop Handle, etc.), Milwaukee, Wis.
Syracuse Faucet & Valve Co. (Without Packing), Syracuse, N. Y.
Wright Specialty Mfg. Co., Youngwood, Pa.

## 3501—Faucets (Catsup Bottling, Etc.)

Langsenkamp, F. H., Indianapolis, Ind.

## 3502—Faucets (Molasses)

Multiplex Faucet Co. ("Brass"), St. Louis, Mo.
North Bros. Mfg. Co. ("Improved Weed"), Leehigh av & American, Phila., Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

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## 3503—Faucets (Oil Can)

Buckeye Iron & Brass Works, Dayton, O.
Forest City Brass Mfg. Co., Cleveland, O.
Fries & Co., Buffalo, N. Y.
Haydenville Co., Haydenville, Mass.
Homer Brass Works, 231 Race, Phila., Pa.
Landers, Frary & Clark, New Britain, Conn.
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)
Queen City Brass & Iron Works, Cincinnati, O.
Taylor & Boggis Foundry Co., Cleveland, O.

## 3504—Faucets (Push Button)

Watrous Co. ("Watrous"), Fisher bldg, Chicago, Ill.

## 3505—Faucets (Self-Closing)

Chicago Faucet Co. ("Fulcrum"), 305 S Clinton, Chicago, Ill.

## 3506—Faucets (Self-Measuring)

Lane Bros., Co., Poughkeepsie, N. Y.

## 3507—Faucets (Stoneware)

Graham, Chas. Chemical Pottery Wks., 986 Metropolitan av, Brooklyn, N. Y.

## 3508—Faucets (Tea & Coffee Urn)

Messmer, Ferd Mfg. Co., St. Louis, Mo.
Peck Bros. & Co., New Haven, Conn.

## 3509— Faucets (Wood)

Boston & Lockport Block Co., Boston, Mass.
Burnside Mfg. Co. (Cedar), Burnside, Ky.
Crandall Bros. ("Palmer's"), N. Kingsville, O.
Redlich Mfg. Co. (Wood, Cork-Lined, Cedar, Lock-Key, Metal Plug, etc.), 637 W Oak, Chicago, Ill.
Richardi & Bechtold, Bellaire, Mich.
Richards, T. C. Hardware Co., Winsted, Conn.
Schmidt Faucet Co., Rochester, N. Y.
Slater, A. J. (Hand Turned), Naugatuck, Conn.
Sommer Faucet Co. (Over 100 Different Kinds, Plain, Corked & Leather Lined, etc.), Newark, N. J.
Warner, A. H. & Co. ("Boss" Metal Key, Maple, "Crown," "Imperial"), Bristol, Conn.

## 3509a—Feed Water Treatment

**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 3510—Feeders (Aluminum Railway)

Aluminum Co. of America, Pittsburg, Pa.

## 3511— Feeders (Boiler)

**AMERICAN INJECTOR CO. ("U. S."** Automatic Injector), Detroit, Mich. (See adv. index, end of book)
Catchpole Boiler, Foundry & Machine Co., Geneva, N. Y.
Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
Davis, G. M. Regulator Co. (& Heater), 144 Milwaukee av, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foskett & Bishop Co., New Haven, Conn.
Foster, F. W. Mfg. Co. ("Neirlek," Automatic), 99 Haverhill, Boston, Mass.
Gillis & Geoghegan, 537 W B'way, New York
Kelley & Jones Co., 135 Water, Pittsburg, Pa.
Keyes, F. E. & Son ("Advance"), 20 Broad, New York
Kieley & Mueller ("Duplex"), 34 W 13th, New York
Kitts Mfg. Co., Oswego, N. Y.
Larzelere Machine Co., Williamsport, Pa.
Lawlor Regulator Co. ("Lawler's" Automatic, for Low Pressure), 473 W B'way, New York
**LUNKENHEIMER CO., Cincinnati, O.** (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**NASON MFG. CO. (Immersed Valve),** 71 Fulton, New York. (See adv. index, end of book)
National Feeder Co., Penobscot bldg, Detroit, Mich.
Randle Machinery Co. ("Leader"), Cincinnati, Ohio
Rutzler, E. Co. (Low Pressure, Automatic), 404 E 49th, New York
Schutte & Koerting Co. ("Koerting"), 1251 N 12th, Phila., Pa.
**SIMMONS, JOHN CO., 106 Centre, New** York. (See adv. index, end of book)
Standard Steam Specialty Co. ("Utility," High & Low Pressure), 542 W B'way, New York
Warren Steam Pump Co., Warren, Mass.
Watson, N. A. Brass Works ("Excelsior"), Erie, Pa.
Wright, Geo. W., Lapel, Ind.

## 3512—Feeders (Boiler Oil)

Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Lake Erie Boiler Compound Co. ("Perfection" Boiler Compound), Buffalo, N. Y.
**McRAE & ROBERTS CO. ("Neverfail"), 227** Campbell av, Detroit, Mich. (See adv index, end of book)
Michigan Lubricator Co., Detroit, Mich.
Milwaukee Metal Working Co. ("Werder"), Milwaukee, Wis.
Talmage Mfg. Co., Cleveland, O.
Watt's, John M. Sons ("Wickersham American"), 54 N 2d. Phila., Pa.
Watts Regulator Co. ("Shoo Fly"), Lawrence, Mass.

## 3512a— Feeders (Clay)

**MARION MACHINE, FOUNDRY &** Supply Co. (Rust), Marion, Ind. (See adv. index, end of book)

## Feeders (Coal Dust)

(See Burners, Coal Dust)

## 3513—Feeders (Cotton Gin)

Brown Cotton Gin Co., New London, Conn.
Carver Cotton Gin Co., E. Bridgewater, Mass.
Continental Gin Co., Birmingham, Ala.
Gullett Gin Co., New Orleans, La.
Van Winkle, E. Gin & Machine Wks, Atlanta, Ga.

## 3514— Feeders (Fuel)

**Dixie Mfg. Co. (Automatic Furnace),** Baltimore, Md.
Garland, M. Co., Bay City, Mich.
**Phoenix Mfg. Co. (Automatic, Sawdust),** Eau Clair, Wis.
Porbeck, Otto (Furnace), 2017 N B'way, St. Louis, Mo.
Vulcan Furnace Co., Warren, O.

## 3515— Feeders (Furnace)

Allington & Curtis Mfg. Co., Saginaw, Mich.
Cyclone Blow Pipe Co. (Automatic), 541 W Jackson boul, Chicago, Ill.
Dixie Mfg. Co. (Automatic), Baltimore, Md.
Empire Blower & Pipe Co. (Automatic), Rochester, N. Y.
Ohio Blower Co., Cleveland, O.
Sterling Blower & Pipe Co. (Automatic), Hartford, Conn.
Venderbush & Looman (Automatic), Detroit, Mich.
Vulcan Furnace Co., Warren, O.

## 3515a— Feeders (Hog)

Columbian Steel Tank Co., Kansas City, Mo.

## 3516— Feeders (Ore)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Concentrator Co. ("Plunger"), Joplin, Mo.
Chalmers & Williams ("Challenge" Plunger), Chicago Heights, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Frenier & Son, Rutland, Vt.
Hammond Mfg. Co., 100 1st, Portland, Oregon
Harron, Rickard & McCone ("James"), San Francisco, Cal.
Hendy, Joshua Mach. Wks, San Francisco, Cal.
Krom Machine Works, 170 B'way, New York; Works, Jersey City, N. J.
McFarlane Mfg. Co., Denver, Colo.
Mecklenburg Iron Works, Charlotte, N. C.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
**POWER & MINING MACHINE CO.** ("Challenge"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 3517—Feeders (Stone Sawing)

Kelly & Jones Co., 135 Water, Pittsburg, Pa.


**The New Rust Clay Feeder and Mixer**




**Saves $500.00 in Labor Every Year**

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## 3518—Feeds (Roll & Dial)

Hibbard, Wm. H. Mfg. Co., Washington av,
Hibbard, Wm. H. Mfg. Co., 79 Washington av,

## 3519— Feldspar Miners

Crossley, Geo. C. Co., Trenton, N. J.
Dunkel, S. P. & Son, Baltimore, Md.
Eureka Flint & Spar Co., Trenton, N. J.
Gildersleeve, Walter, Gildersleeve, Conn.
Glastonbury Feldspar Mills Co., S. Glastonbury, Conn.
Golding Sons Co., Trenton, N. Y.
Guilford & Waltersville Granite Co. (Rough & Ground), 3 E Lexington, Baltimore, Md.
Howe, Louis W., S. Glastonbury, Conn.
Penna. Feldspar Co., Phila., Pa.
Sparvelta Mining Co., Baltimore, Md.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)

## 3520— Felt Hardeners

Farrel Foundry & Machine Co., Ansonia, Conn.

## 3521— Felt Mills

(See also Felts, Hair)

American Felt Co., Boston, Mass., & 110 E 13th, New York
Albany Felt Co., Albany, N. Y.
Bacon Felt Works, Winchester, Mass.
Carey, Philip Mfg. Co. (Asbestos & Wool Felts), Lockland, O.
Dolge, Alfred Felt Co., Dolgeville, Cal.
Eastern Felt Co., Winchester, Mass.
Faatz-Reynolds Felting Co. (Wool), Lester-Felters Co., Boston, Mass. shire, N. Y.
Field & White, 116 Nassau, New York
Foot Mfg. Co., Jersey City, N. J.
Garrett, C. S. & Son Co., 22 S Marshall, Philadelphia, Pa.
General Roofing Mfg. Co., East St. Louis, Ill., & Chicago, Ill.
House, Chas. W. & Sons, 32 Union Sq, New
Lockport Felt Co., Lockport, N. Y. York
National Felt Co., Easthampton, Mass.
Paige, Frank E. & Co., 68 Essex, Boston, Mass.
Philadelphia Felt Co., Frankford, Phila., Pa.
Seabright Woven Felt Co. (Woven & Mechanical), Camden, Me.
Slater, Robert, Riverdale, N. J.
Stroock Felt Co., Newburgh, N. Y.
Tingue, Brown & Co., 64 Reade, New York
Union Roofing & Mfg. Co., St. Paul, Minn.
Waterbury Felt Co., Skaneateles Falls, N. Y.
Waupaca Felting Mills, Waupaca, Wis.

## 3522—Felt Wicks, Plugs, Washers, Strips, Etc.

Bowen Manufacturing Co., Auburn, N. Y.

## 3523—Felts (Asbestos Corrugated)

**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 3524— Felts (Asphalt)

**WATSON, H. F. CO. (30, 40 & 50 lbs.),** Erie, Pa. (See adv. index & branch offices, end of book)

## 3525— Felts (Deadening)

Barrett Mfg. Co., 17 Battery pl, New York
Bird, F. W. & Son ("Florian"), East Walpole,
Carey, Philip Mfg. Co., Lockland, O. Mass.
Chatfield & Woods Co., Cincinnati, O.
Coons, Fred. M., Rockton, Ill.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
Garrett, C. S. & Co., 21 Decatur, Phila., Pa.
General Roofing Mfg. Co., East St. Louis, Ill.
Hoosier Rock Wool Co. (Insulating Felt Board) Alexandria, Ind.
**JOHNS, H. W.-MANVILLE CO.** (Also Mangle), 100 William, New York. (See adv. index & branch offices, end of book)
Kingston's, Wm. Son, Little Falls, N. Y.
Mac-Sim-Bar Paper Co. (Building), Otsego. Mich.
New York Asbestos Mfg. Co., 80 John, New York
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Union Fibre Co. ("Lith," "Linofelt" & Quilted Flax Fibre & Mineral Wool Sound Deadener), Winona, Minn.
Union Roofing & Mfg. Co., St. Paul, Minn.
**WATSON, H. F. CO. ("Superior"** Brand of Wool), Erie, Pa. (See adv. index & branch offices, end of book)

## 3526—Felts for Electrical Purposes

(See also Felt Mills; also Felts, Hair)

American Felt Co., Boston, Mass., & 110 E 13th, New York
Bacon Felt Works, Winchester, Mass.
Booth, N. E., 642 Pacific, Brooklyn, N. Y.
Carey, Philip Mfg. Co., Lockland, O.
Faatz-Reynolds Felting Co. (Wool), Lestershire, Felters Co., Boston, Mass. N. Y.
Paige, Frank E. & Co., 68 Essex, Boston, Mass.
Stroock Felt Co., Newburgh, N. Y.
Taylor, W. J., 623 B'way, New York
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)
Wild, Jos. & Co., 366 5th av, New York

## 3527— Felts (Hair)

Bowden Bros., Cedar Grove, N. J.
Carey, Philip Mfg. Co., Lockland, O.
Faatz-Reynolds Felting Co. (Wool), Lestershire, Felters Co., Boston, Mass. N. Y.
Illinois Leather Co., 930 N Halsted, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO.** (For Refrigeration & Hot & Cold Water Pipes), 100 William, New York. (See adv. index & branch offices, end of book)
Keystone Hair Insulator Co., Pittsburg, Pa.
Sindle, S. & Son (Also Felt Wool), Little Falls,
Trainer, C. W. Mfg. Co., Boston, Mass. N. Y.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 3527a—Felts (Insulating)

(See Felts for Electrical Purposes)

## 3528— Felts (Mechanical)

Booth, N. E. (Buffers, Rings, Pads, Washers, etc.), 642 Pacific, Brooklyn, N. Y.

## Felts (Papermakers')

(See Felts & Jackets, Paper Makers')

## 3529—Felts (Piano & Organ)

American Felt Co., Boston, Mass., & 110 E 13th, New York
Crane Felt Mfg. Co., Belvidere, N. J.
Felters Co., Boston, Mass.

## 3530— Felts (Polishing)

American Felt Co., Boston, Mass., & 110 E 13th, New York
Bacon Felt Works, Winchester, Mass.
Eastern Felt Co. (Sheets), Winchester, Mass.
Foot Mfg. Co., Jersey City, N. J.
House, Chas. W. & Sons, 32 Union Sq, New York
Paige, Frank E. & Co., 68 Essex, Boston, Mass.
Stroock Felt Co., Newburgh, N. Y.
Tingue, Brown & Co., 64 Reade, New York

## 3531— Felts (Roofing)

(See also Papers, Roofing & Sheathing)

Acme Asphalt Roofing Mfg. Co. ("Eagle" Brand Asphalt), Jersey City, N. J.
Barrett Mfg. Co. (Also Tarred & Saturated Wool Felts, etc.), 17 Battery pl, New York
Burke, Augustus, 813 W Superior, Chicago, Ill.
Carey, Philip Mfg. Co., Lockland, O.
Chatfield & Woods Co., Cincinnati, O.
Diem & Wing Paper Co. ("Flintoid"). 8th & Eggleston av, Cincinnati, O.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
Garrett, C. S. & Son Co., 22 S Marshall, Philadelphia, Pa.
General Roofing Mfg. Co., East St. Louis, Ill., & Chicago, Ill.
Gilmour, R. M. Mfg. Co., 105 John, New York
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
Hydrex Felt & Engineering Co., 120 Liberty. New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book
Kingston's, Wm. Son (Dry Felt), Little Falls N. Y
Lewis, F. J. Mfg. Co., 2513 S Robey, Chicago, Ill.
Lincoln Waterproof Cloth Co., Boundbrook N. J
McClintock & Irvine Co., Pittsburg, Pa.
Monarch Paint Co. (Hydro-Carbonite), Cleveland, O
Nashville Chemical Co., Nashville, Tenn.
New England Felt Roofing Works, 18 Post office sq, Boston, Mass.
North Chicago Roofing Co., 851 W North av, Chicago, Ill.
Patent Vulcanite Roofing Co., 1288 S Campbell av, Chicago, Ill.
Powell, M. W. Co., 204 Dearborn, Chicago, Ill.
Powell & Jones, Monadnock blk, Chicago, Ill.
Sall Mountain Asbestos Mfg. Co., 234 Lasalle, Chicago, Ill.
Scott & Co. (Asteroid), 234 E Front, Cincinnati, O.
Southern Roofing Co. (Tarred), Atlanta, Ga.
Stewart, W. H. Mfg. Co., 65 Delevan, Brooklyn, N. Y.
Stowell Mfg. Co., Jersey City, N. J.
Sword, Roland P., Mount Holly, N. J.
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Union Roofing & Mfg. Co. ("Pyramid" Tarred), St. Paul, Minn.
Warren Bros Co. (Single, 2 & 3 ply), Boston, Mass.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 3532—Felts (Tarred Saturated)

Barrett Mfg. Co., 17 Battery pl, New York
Carey, Philip Mfg. Co. (Asphalt, etc.), Lockland, O.
Lewis, F. J. Mfg. Co., 2513 S Robey, Chicago, Ill.
Union Roofing & Mfg. Co. ("Pyramid" Brand & Asphalt), St. Paul, Minn.
**WATSON, H. F. CO. (Roofing, Slat-**ing, etc.), Erie, Pa. (See adv. index & branch offices, end of book)

## 3533—Felts (Wool Deadening)

**WATSON, H. F. CO. ("Comfort," "Su-**perior" Insulated), Erie, Pa. (See adv. index & branch offices, end of book)

## 3534—Felts & Jackets (Papermakers')

Albany Felt Co., Albany, N. Y.
Appleton Woolen Mills, Appleton, Wis.
Bredt, F. & Co. ("Jos. Porritt & Sons"), 240 Water, New York
Buckley, Dunton & Co. ("Excelsior"), 77 Duane, New York
Draper Bros. Co. (Press & Pulp Felts), Canton, Mass.
Huyck, F. C. & Sons, Albany, N. Y.
Knox Woolen Co., Camden, Me.
Lockport Felt Co., Lockport, N. Y.
Phila. Felt Co., Frankford, Phila., Pa.
Shuler & Benninghofen, Hamilton, O.
Waterbury Felt Co., Skaneateles, N. Y.
Waterbury, H. & Sons Co., Oriskany, N. Y.

## 3534a—Fence Posts (Trussed Iron)

**BURTON, W. J. CO., 161 W. Con-**gress, Detroit, Mich. (See adv. index, end of book)

## 3535—Fences (Combination Wire & Picket)

Bushnell Tank Works, Bushnell, Ill.

## 3536—Fences (Electrically Welded Wire)

Pittsburg Steel Co. ("Pittsburg", Perfect), Pittsburg, Pa.

## 3537—Fences (Expanded Metal)

**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end of book)
McDowell Mfg. Co., Pittsburg, Pa.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

## 3538—Fences (Hog & Cattle)

**AMERICAN STEEL & WIRE CO.** ("Universal"), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

## 3539—Fences (Iron & Steel Picket)

Albree, Chester B. Iron Works, Allegheny, Pa.
**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end of book)

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**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
Atlanta Wire & Iron Works Co., Atlanta, Ga.
Barnum, E. T., Wire & Iron Works, 82 Washington av, Detroit, Mich.
Belmont Iron Works, 2215 Washington av, Phila., Pa.
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Brown, H. L. Fence & Mfg. Co., Cincinnati, O.
Buffalo Wire Works Co., Buffalo, N. Y.
**CARPENTER, F. E. CO., 253 B'way, New** York (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Cincinnati Iron Fence Co., Cincinnati, O.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Davis & Siehl (Steel), 4032 Hamilton av, Cincinnati, O.
Detroit Arch'l Iron Works Co., Detroit, Mich.
DeKalb Fence Co. (Steel Web), LeKalb, Ill.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Glen Mfg. Co. ("Hartman" Wrought Steel), Ellwood City, Pa.
**HANKE IRON & WIRE WKS., 2550** Fillmore, Chicago, Ill. (See adv. index, end of book)
Indiana Steel & Wire Co., Muncie, Ind.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Page Woven Wire Fence Co. (Also Ornamental), Adrian, Mich.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith Fence & Iron Co. (Steel), Waynesboro, Pa.
Stewart Iron Works Co., Covington, Ky.

## Fences (Ornamental Iron)

(See Gates, Ornamental Iron)

## 3540—Fences (Railroad & Farm)

(See also Fences, Woven Wire; also Wire Fences & Gates with the word Ornamental following name)
Adrian Wire Fence Co., Adrian, Mich.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
DeKalb Fence Co., DeKalb, Ill.
Janesville Barb Wire Co., Janesville, Wis.
Kitselman Bros., Muncie, Ind.
Kokomo Steel & Wire Co., Kokomo, Ind.
Pittsburg Steel Co., Pittsburg, Pa.
Spencer Steel Co., Worcester, Mass.
**WRIGHT WIRE CO., 125 Summer,** Boston, Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, Ohio

## 3541—Fences (Truss & Cable)

**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 3542—Fences (Woven Wire)

(See also Wire Fences & Gates; also Fences, Railroad & Farm)
Adams Steel & Wire Works, Joliet, Ill.
Adrian Wire Fence Co. ("Adrian"), Adrian, Mich.
**AMERICAN STEEL & WIRE CO.,** ("American," "Anthony," "Elwood" & "Royal" Fences), Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
American Wire Fence Co. ("Model" Steel Coiled Spring), 218 Lasalle, Chicago, Ill.
Carroll Wire Fence Co., Carroll, Ia.
Clinton Wire Cloth Co., Clinton, Mass.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Cyclone Fence Co., Waukegan, Ill.
Cyclone Woven Wire Fence Co. ("Cyclone" Spring Steel), Cleveland, O.
De Kalb Fence Co. ("De Kalb," Cabled Field, Hog, Poultry, Garden, Rabbit & "M. M. S." Poultry), De Kalb, Ill.
Denning Wire & Fence Co. ("Jumbo," "Peerless"), Cedar Rapids, Ia.
Dwiggins Wire Fence Co. ("Victor"), Anderson, Ind.
Elliott & Reid Co. ("Royal," Richmond," "Ideal"), Richmond, Ind.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Eureka Fence Mfg. Co. ("Eureka"), Richmond, Ind.
Frost Wire Fence Co., Cleveland, O.
Grand Crossing Tack Co. (Endless Coiled Spring Fence), S Chicago av & 79th, Chicago, Ill.
Griswold Co. ("Griswold"), Sterling, Ill.
Hohulin Bros. ("Diamond"), Goodfield, Ill.
Imbler Fence & Mfg. Co., Alexandria, Ind.
Indiana Anchor Fence Co. ("Indiana"), South Bend, Ind.
Indiana Steel & Wire Co., Muncie, Ind.
Interlocking Fence Co. ("Crown"), Morton, Ill.
Jackson Fence Co. ("Jackson"), Jackson, Mich.
Janesville Barb Wire Co., Janesville, Wis.
Kansas City Wire & Iron Works, Kansas City, Mo.
Keystone Steel & Wire Co. ("Keystone" & "Square Deal"), Peoria, Ill.
Kitselman Bros., Muncie, Ind.
Kokomo Steel & Wire Co., Kokomo, Ind.
Lafayette Fence & Machine Co., Lafayette, Ind.
Missouri Anchor Fence Co., St. Joseph, Mo.
New Jersey Wire Cloth Co., Trenton, N. J.
Page Woven Wire Fence Co. ("Page"), Adrian, Mich.
Pennsylvania Woven Wire Co., Lockhaven, Pa.
Shimer & Co. ("Perfect" Coil Spring), Anderson, Ind.
Spring Steel Fence & Wire Co. ("Shimer"), Crimped Spring), Anderson, Ind.
Warner Fence Co., Ottawa, Kan.

## 3543—Fenders (Brass & Iron)

(See also Fire Place Furnishings, Manufacturers)
Bigelow, Cheney Wire Works, Springfield, Mass.
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**JACKSON, EDWIN A. & BRO., 50** Beekman, New York (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 3544—Fenders & Guards (Automobile)

American Auto Brass Co., Columbus, Ohio
American Veneer Co., Kenilworth, N. J.
A-Z Co., 527 W 56th, New York
Barnes Automobile Fender Co., Trenton, N. J.
Briscoe Mfg. Co., Detroit, Mich.
Broc Carriage & Wagon Co., Cleveland, O.
Cole & Woop, 48 W 67th, New York
Dann Bros. & Co., New Haven, Conn.
Degenhart & Co., Buffalo, N. Y.
Everitt, B. F., 63 Fort E, Detroit, Mich.
Fedders Mfg. Co., Buffalo, N. Y.
Folsom, C. G. Mfg. Co., South Bend, Ind.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Gray, Peter & Sons, Cambridge, Mass.
Hayes Mfg. Co., Detroit, Mich.
Indianapolis Dash Co., Indianapolis, Ind.
Kells, W. J. Mfg. Co., Jersey City, N. J.
Kinsey Mfg. Co. ("Kinwood"), Toledo, O.
Long Mfg. Co., 1430 Michigan av, Chicago, Ill.
McKinnon Dash Co., Buffalo, N. Y.
Moore-Munger Co., 602 W 52d, New York
Peters & Herron Dash Co., Columbus, O.
Pursell, P. M. Mfg. Co., 802 Bleecker, New York
Quinby, J. M. & Co., Newark, N. J.
Saginaw Sheet Metal Works, Saginaw, Mich.
Springfield Metal Body Co., Springfield, Mass.
U. S. Dash Fender Co., 147 E 42d, New York
Welton Automobile Fender Co., Columbus, O.
Wright Cooler & Hood Co., 335 Wabash av, Chicago, Ill.
Wright, R. G. & Co., Buffalo, N. Y.

## 3545— Ferro-Alloys

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
Crocker Bros. (Imported English), 99 John, New York
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Midvale Mining & Mfg. Co. (All Kinds), St. Louis, Mo.
Noble Electric Steel Co., San Francisco, Cal.
Primos Chemical Co., Primos, Pa.
Tennant's, C. Sons & Co. (Importers), 76 William, New York

## 3546— Ferro-Aluminum

Aluminum Co. of America, Pittsburg, Pa.
Beer, Sondheimer & Co., 42 B'way, New York
Electric Smelting & Aluminum Co. ("Cowles"), Lockport, N. Y.

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Kemp, W. H. & Co., 165 Spring, New York
Shimer, H. M. & Co., 19th & Washington av, Phila., Pa.

## 3547— Ferro-Chrome

Aluminum Co. of America, Pittsburg, Pa.
Dana & Co., 32 B'way, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Electro-Metallurgical Co. (Low Carbon), 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Lee, James & Co., 76 William, New York
Metal Mfg. Co., 25th & Dickson, Phila., Pa.
Potts & Whittman, North American bldg, Primos Chemical Co., Primos, Pa. Phila., Pa.
Roessler & Hasslacher Chemical Co. ("Polueknetos" Brand), 100 William, New York
Tennant's, C. Sons & Co. (Importers), 76 William, New York
Virginia Electrolytic Co., 99 Cedar, New York

## 3548—Ferro-Manganese & Ferro-Silicon

American Steel Co., Pittsburg, Pa.
Ashland Iron & Mining Co. (Bessemer Ferro-Silicon Only), Ashland, Ky.
**Blair, Reed F. & Co., Frick bldg, Pittsburg, Pa.**
Bond, Vivian & Co., 68 Beaver, New York
Cambria Steel Co. (Ferro-Manganese Only), Johnstown, Pa.
Carborundum Co. (Ferro-Silicon), Niagara Falls, N. Y.
Carnegie Steel Co., Pittsburg, Pa.
Colorado Fuel & Iron Co. (Ferro-Manganese Only), Denver, Col.
Crescent Phosphorized Metal Co. (Copper, etc.), 2314 Wood, Phila., Pa.
Crocker Bros. (Imported English), 99 John,
Dana & Co., 32 B'way, New York New York
Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
Electric Smelting & Aluminum Co. ("Cowles") Lockport, N. Y.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Goldschmidt Thermit Co. 90 West, New York
Hamilton Co. (English), 50 Church, New York
Lang, R. F., 31 B'way, New York
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Lee, James & Co., 76 William, New York
Metal Mfg. Co. (Ground), 25th & Dickinson, Phila., Pa.
Midvale Mining & Mfg. Co. ("Carbanese"), St. Louis, Mo.
Noble Electric Steel Co., San Francisco, Cal.
Potts & Whittman, North American bldg, Philadelphia, Pa.
Primos Chemical Co., Primos, Pa.
Roessler & Hasslacher Chemical Co. ("Polueknetos" Brand), 100 William, New York
Rogers, Brown & Co. (Imported & Domestic), Cincinnati, O.
Samuel Frank (Firm of), 1502 Market, Phila., Pa.
Tennant's, C. Sons & Co. (Importers), 76 William, New York
Virginia Electrolytic Co. (Specialty Ferro-Silicon), 99 Cedar, New York; Furnaces: Holcomb, Va.

## 3549— Ferro-Molybdenum

Atkins, Kroll & Co., San Francisco, Cal.
Electro-Metallurgical Co., 79 Wall, New York. & 157 Michigan av, Chicago, Ill.
Foote Mineral Co., 107 N. 19th, Phila., Pa.
Goldschmidt Thermit Co., 90 West, New York
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Mineral Products Co., Wilmington, Del.
Primos Chemical Co., Primos, Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York

## 3550— Ferro-Nickel

Electrical Alloy Co., Morristown, N. J.
**Primos Chemical Co., Primos, Pa.**
Roessler & Hasslacher Chemical Co., 100 William, New York

## 3551— Ferro-Phosphorus

Hickman, Williams & Co. (Ground), Louisville, Ky.
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Potts & Wittman, North American bldg. Phila., Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York

## 3552—Ferro-Silicon (Electrolytic)

Carborundum Co., Niagara Falls, N. Y.
Roessler & Hasslacher Chemical Co., 100 William, New York
Virginia Electrolytic Co., 99 Cedar, New York

## 3553— Ferro-Titanium

Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Roessler & Hasslacher Chemical Co., 100 William, New York
Titanium Alloy Mfg. Co., Pittsburg, Pa.

## 3554— Ferro-Tungsten

Atkins, Kroll & Co., San Francisco, Cal.
Electro-Metallurgical Co., 79 Walls, New York, & 157 Michigan av, Chicago, Ill.
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Mineral Products Mfg. Co., Wilmington, Del.
Primos Chemical Co., Primos, Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York
Tennant's, C. Sons & Co. (Importers), 76 William, New York
Virginia Electrolytic Co., 99 Cedar, New York

## 3555— Ferro-Vanadium

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)
Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
General Vanadium Co. of America, Continental bldg, Baltimore, Md.
Primos Chemical Co., Primos, Pa.
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)
Roessler & Hasslacher Chemical Co., 100 William, New York
Virginia Electrolytic Co., 99 Cedar, New York

## 3555a— Ferro-Zinc

**NEW ERA MFG. CO., Kalamazoo,** Mich. (See adv. index, end of book)

## 3556— Ferrules (Brass)

American Distributing Co., Syracuse, N. Y.
American Pin Co., Waterbury, Conn.
American Ring Co., Waterbury, Conn.
American Tube & Stamping Co., Bridgeport, Conn.
Athol Pump Co. (For Plumbing), Athol, Mass.
**BAY STATE STAMPING CO., 380 Chandler,** Worcester, Mass. (See adv. index, end of book)
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Bridgeport Brass Co., Bridgeport, Conn.
Brunswick Mfg. Co. (Plain & Nickel Plated), Brunswick, Me.
Cahill, M. F. (Seamless), L. & 1st, S. B., Boston, Mass.
Campbell, J. B. Brass Works (End Reducing & Trap Screw), Erie, Pa.
Edwardsville Brass Co. (For Plumbing), Edwardsville, Ind.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Green, C. E. & Son, 95 Passaic, Newark, N. J.
Hays Mfg. Co. (Also Trap Screw), Erie, Pa.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Humphrey, H. W. (Solid), Unionville, Conn.
**HUNGERFORD, U. T. BRASS & COPper Co.,** 497 Pearl, New York
McNab & Harlin Mfg. Co. (For Plumbing). 56 John, New York
Matthews Mfg. Co., Worcester, Mass.
**MERCHANT & EVANS CO. (Inc.)** (Seamless), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mueller, H. Mfg. Co. (Plumbing), Decatur, Ill.
Niagara Handle & Ferrule Co., Baltimore, Md.
Novelty Mfg. Co. (Small), Waterbury, Conn.
**PARKER, JNO. L. CO., Worcester,** Mass. (See adv. index, end of book)
Peck Bros. & Co., New Haven, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Randolph-Clowes Co., Waterbury, Conn.
Rome Brass & Copper Co.. Rome, N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Sanitary Co. (For Plumbing), Cleveland, O.
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Starbuck, R. M. & Son (Plumbers), Hartford, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
**STEIN, HENRY, 48 Cliff, New York,** (See adv. index, end of book)
Union Hardware Co., Torrington, Conn.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Button Co., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 3557— Ferrules (Cleanout)

American Foundry & Mfg. Co., St. Louis, Mo.
Campbell, J. B. Brass Works, Erie, Pa.
Haydenville Co., Haydenville, Mass.
**HAYS MFG. CO., Erie, Pa. (See adv.** index, end of book)
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
Peck Bros. & Co. ("Garvie" Patent), New Haven, Conn.

## 3558—Ferrules (Condenser, Hard Fibre)

**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wilmington,** Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY CO.,** Wilmington, Del. (See adv. index & branch offices, end of book)

## 3559— Ferrules (Copper)

Brunswick Mfg. Co. (Plain & Nickel Plated), Brunswick, Me.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
**HUNGERFORD, U. T., BRASS &** Copper Co. (Boiler Flue), 497 Pearl, N. Y.
**MERCHANT & EVANS CO. (Inc.)** (Seamless), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Rome Brass & Copper Co., Rome, N. Y.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## Ferrules (Fibre)

(See Fibre, Hard; also Ferrules, Condenser, Hard Fibre)

## 3561—Ferrules (Iron & Steel)

American Fork & Hoe Co., Cleveland, O.
American Tube & Stamping Co. (Steel), Bridgeport, Conn.
Athol Pump Co. (Soil Pipe Union), Athol, Mass.
**BAY STATE STAMPING CO., 380 Chandler,** Worcester, Mass. (See adv. index, end of book)
**BLAKE SPECIALTY CO. (Iron), 2412** 3d av, Rock Island, Ill. (See adv. index, end of book)
Brunswick Mfg. Co. (Plain & Nickel Plated), Brunswick, Me.
Cahill, M. F. (Steel), L. & 1st, S. B., Boston, Mass.
Cassady-Fairbank Mfg. Co. (Nickel Plated Steel), 6106 La Salle, Chicago, Ill.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Hays Mfg. Co., Erie, Pa.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Humphrey, H. W. (Steel), Unionville, Conn.
Lathrop, F. B. (Steel), South Acton, Mass.
Matthews Mfg. Co. (Steel), Worcester, Mass.
Niagara Handle & Ferrule Co., Baltimore, Md.
**PARKER, JNO. L. CO., Worcester,** Mass. (See adv. index, end of book)

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Union Hardware Co., Torrington, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.
**WORCESTER PRESSED STEEL CO.**, Worcester, Mass. (See adv. index & branch offices, end of book)

## 3562— Ferrules (Lead)

(See also Lead Traps, Bends & Ferrules)

Cooper Sanitary Mfg. Co., 17th & Cuthbert, Phila., Pa.
Federal-Huber Co., 234 N Halsted, Chicago, Ill.
Greenwood Co. ("Roosey's"), Detroit, Mich.
Kellogg-Mackey Co., 419 W 18th, Chicago, Ill.
National Lead Co., 111 B'way, New York
Raymond Lead Co. ("Raymond's," Combination), Chicago, Ill.
Standard Mfg. Co., Pittsburg, Pa.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.

## 3563—Ferrules (Screw Driver)

Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Niagara Handle & Ferrule Co., Baltimore, Md.
Sparks, Withington Co., Jackson, Mich.

## 3564—Ferrules (Tin & Sheet Metal)

Consolidated Fruit Jar Co. (Sheet Metal), New Brunswick, N. J.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Humphrey, H. W., Unionville, Conn.

## 3565—Ferrules (Trap Screw)

Advance Mfg. Co., Erie, Pa.
American Fdry. & Mfg. Co., St. Louis, Mo.
Campbell, J. B. Brass Works, Erie, Pa.
Casey-Hedges Co., Chattanooga, Tenn.
Fries & Co., Buffalo, N. Y.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., Phila., Pa.
Haydenville Co., Haydenville, Mass.
Mays Mfg. Co. (Iron), Erie, Pa.
Kupferle, Jno. C. Fdry. Co., St. Louis, Mo.
McCambridge-Cooper Co., 20th & Wood, Phila., Pa.
McClure, R. C. Co., Syracuse, N. Y.
McCormick Mfg. Co., Dayton, O.
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Mueller, H. Mfg. Co., Decatur, Ill.
Newbury Mfg. Co., Monroe, N. Y.
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Pittsburg Valve & Fittings Co., Barberton, O.
Prier Brass Mfg. Co., Kansas City, Mo.
Register Co., Westminster, Md.
Reynolds, Martin & Son, 68 Richardson, Brooklyn, N. Y.
Rockford Brass Works, Rockford, Ill.
Spence Mfg. Co., Milwaukee, Wis.

## 3566— Ferrules (Wire)

Green, C. E. & Son, 95 Passaic, Newark, N. J.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Lathrope, F. B., South Acton, Mass.
Wire Goods Co., Worcester, Mass.

## Fibre Boards

(See Fibre, Hard)

## 3567— Fibre (Brush)

American Fibre Co. ("Palmetto"), Jacksonville, Fla.
Whiting, E. B. & A. C. ("Tampico"), Burlington, Vt.

## 3567a— Fibre (Flexible)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

## 3568— Fibre (Friction)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wilmington**, Del.; Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere**, Del. (See adv. index, end of book)
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**DIAMOND STATE FIBRE CO. (Also Flexible)**, Elsmere, Del. (See adv. index, end of book)
Eastern Hard Fibre Co., Merrimac, Mass.
Empire Mfg. Co., Wilmington, Del.
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Spaulding, J. & Sons Co., North Rochester, N. H.
**WILMINGTON FIBRE SPECIALTY CO.,** Wilmington, Del. (See adv. index & branch offices, end of book)

## 3570– Fibre (Insulating)

(See also Fibre, Hard)

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Boonton Rubber Co., Boonton, N. J.
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**DELAWARE HARD FIBRE CO., Wilmington, Del.;** Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere, Del.** (See adv. index, end of book)
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National Fibre & Insulation Co., Yorklyn, Del.
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Spaulding, J. & Sons Co., North Rochester, N. H.
Union Fibre Co. ("Lith," Rock & Flax Fibre), Winona, Minn.
United Indurated Fibre Co. N. J. ("Fibrotte" for Covering Third Rails & Wires), Lockport, N. Y.
Whall, C. H. & Co. (For Rail Joints, etc.), Boston, Mass.
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(See also Fibre, Hard)

**AMERICAN VULCANIZED FIBRE CO.** (Vulcanized, also Flexible), Wilmington, Del. (See adv. index, end of book)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

**DELAWARE HARD FIBRE CO.** (All Kinds), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

**DIAMOND STATE FIBRE CO., Elsmere** Del. (See adv. index, end of book)

**PARKER, J. C. & SONS FIBRE CO.** New Castle, Del. (See adv. index, end of book)

**WILMINGTON FIBRE SPECIALTY CO.** Wilmington, Del. (See adv. index & branch offices, end of book)

## 3572—Fibre (Trunk & Suit Case)

**AMERICAN VULCANIZED FIBRE CO.** Wilmington, Del. (See adv. index, end of book)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

**DELAWARE HARD FIBRE CO., Wilmington, Del.** Works: Marshalltown, Del. (See adv. index, end of book)

**DIAMOND STATE FIBRE CO., Elsmere** Del. (See adv. index, end of book)

**PARKER, J. C. & SONS FIBRE CO.** New Castle, Del. (See adv. index, end of book)

**WILMINGTON FIBRE SPECIALTY CO.** Wilmington, Del. (See adv. index & branch offices, end of book)

## 3573— Fibre (Vulcanized)

(For Electrical & Mechanical Purposes)

**AMERICAN VULCANIZED FIBRE CO.** (Also Flexible), Wilmington, Del. (See adv. index, end of book)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

**DELAWARE HARD FIBRE CO., Wilmington, Del.:** Works: Marshalltown, Del (See adv. index, end of book)

**DIAMOND STATE FIBRE CO., Elsmere** Del. (See adv. index, end of book)

**MORRIS ELECTRIC CO., Wilmington, Del.**

**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)

**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 3574— Figures (Lead)

Wilcox, Crittenden & Co. (Also Cast Brass), Middletown, Conn.

## 3575—Filaments (Incandescent Lamp)

Electrical Accessories Co. (Importers), 1135 B'way, New York

Fahn & McJunkin ("Planchon"), 201 E 16th. New York

Filament Supply Co., 625 E 1st, S. B., Boston, Mass.

Jackson, Francis, E Orange, N. J.

## 3576— File Renewing

American File Renewing Co., Providence, R. I.

Ohio File Renewing Co., Niles, O.

## 3577— File & Rasp Mfrs.

Akron File Co., Akron, O.

American Swiss File & Tool Co., 24 John, New York; Factory: Elizabeth, N. J.

Barnett, G. & H. Co. ("Black Diamond"), 21 Richmond, Phila., Pa.

Bickhaus, A. C. ("Gem City"), Quincy, Ill.

Brohm & Molitor, 257 S Pearl, Albany, N. Y.

Buckeye Saw Mfg. Co. (Hand Cut), Columbus Ohio

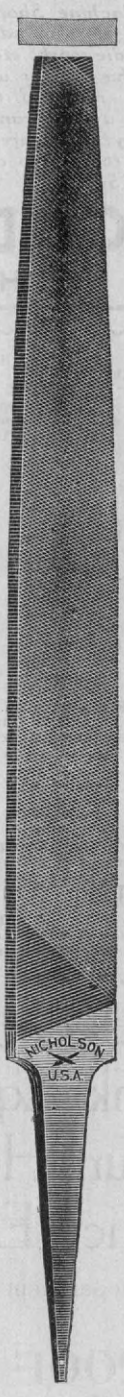
Carver File Co. ("Delta"), 3235 Frankford av, Philadelphia, Pa.

Chatterton File Works, Providence, R. I.

Chelsea File Works, Norwich, Conn.

Chicago File & Rasp Co., 1926 Webster av, Chicago, Ill.

Co-operative File Co., Lawrence, Mass.


# FILE FACTS

Perhaps no tool in your entire shop is more used and abused than the "file." Extreme care should be taken in selecting the **best.** If you claim that, **"a file is a file,"** and purchase blindly, you will be **purchasing continually.**

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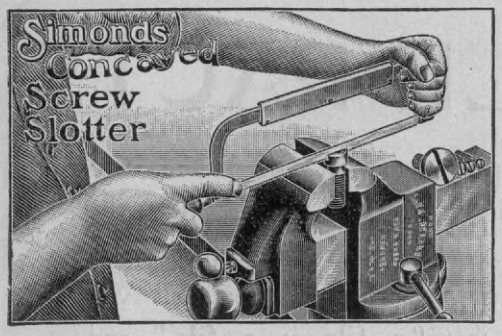
are of such high quality, keen **lasting** cutting power, and long life, that **occasional** purchases will suffice to keep your stock of files up to the highest working efficiency. Thus it means money in your pocket to insist on our Brand on the tang. Write for "File Filosophy."

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**PROVIDENCE, R. I., U. S. A.**


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## SIMONDS MFG. CO.
FITCHBURG, MASS.


Disston, H. & Sons (Inc.) ("Keystone"), Tacony, Phila., Pa.
Dixon, Wm. (Inc.) (Also Importers "Glardon" Swiss Files), 39 John, New York
Flanagan, M., 181 Brewery, New Haven, Conn.
Forquignon Sales Co. (Manicure Files), 142 W 18th, New York
Graves File Co. (Hand Cut), Newark, N. J.
Grover File Co., Nashua, N. H.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Hayes File Co. (For Solder, Babbitt Metal, etc.), Detroit, Mich.
Heller Bros. Co., Newark, N. J.
Industry File Works, Cleveland, O.
Johnson & Bro. File Co. ("Reliance"), Newark, N. J.
Litterst Co., Menlo Park, N. J.
Liveright Bros. ("Gold Medal"), 20th, cor Allegheny av, Phila., Pa.
Lutz File Co., Cincinnati, O.
McCaffrey File Co., 5th & Berks, Phila., Pa.
McClellan, Wm. File Co., Cleveland, O.
Madden & Morrison Co., Middletown, N. Y.
Montgomery & Co. ("Grobet" Swiss, Imported), 105 Fulton, New York
Moore Bros., Jamestown, N. Y.
Morris, E. K. & Co., 317 W 2d, Cincinnati, O.
Mound File Co., 712 Howard, St. Louis, Mo.
Murcott & Campbell, 296 Union av, B'klyn, N. Y.
National File & Tool Co. ("Vixen" Patent Milling File), 2110 W Allegheny av, Phila., Pa.
National Saw Co. ("Richardson"), Newark, N. J.
Niagara File & Rasp Co., Lockport, N. Y.
Niagara Handle & Ferrule Co., Baltimore, Md.
**NICHOLSON FILE CO. ("Nicholson,"** "Kearney & Foot," "McClellan," "J. B. Smith," "Eagle," "Arcade," "American," "Gt. Western," "X-F," "Gold Medal"). Providence, R. I. (See adv. index & branch offices, end of book)
Parkes File Co., Newark, N. J.
Peninsular File Works, Detroit, Mich.
**PITTSBURGH GAGE & SUPPLY CO.** ("Best-Ov-All" Files), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Reichhelm, E. P. & Co. ("American Swiss"), 24 John, New York
Rex File & Saw Co., Newcomerstown, O.
Reynolds Bros. (Hand Cut), Columbus, O.
Ridgeway, Samuel File Co., Gorham, Me.
Shannon, Wm., Middletown, N. Y.
**Shedinger, Wm.** (Needle, Broach, etc.), Tacony, Philadelphia, Pa
Simonds File Co. ("Simonds," "Fitchburg"), Fitchburg, Mass.
Smith, J. Barton Co., 106 W Norris, Phila., Pa.
Stanley, Calrow L. (Roll Files a Specialty), Lowell, Mass.
Stokes Bros. Mfg. Co., Freehold, N. J.
Stubbs Steel Co., 17 N 5th, Phila., Pa.
Thornhill, Robert, Portland, Me.
Troy File Works ("Trojan," "Arrow"), Troy, N. Y.
Westfahl File Co., Milwaukee, Wis.
**WHITMAN & BARNES MFG. CO. ("W. & B."),** Akron, O. (See adv. index & branch offices, end of book)

### 3578– Files (Bill)

Jenckes, E. Mfg. Co. (Brass), Worcester, Mass.
Tatum, Sam'l C. Co. (Stick, Harp, etc.), Cincinnati, O.
**TURNER & SEYMOUR MFG. CO., Torrington,** Conn. (See adv. index, end of book)

### 3579– Files (Horse Tooth)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Horn, Wm. H. & Bro., 451 N 3d, Phila., Pa.

### 3579a– Files (Letter)

Wire Hardware Co., 1824 Besly court, Chicago, Ill.

### 3580– Files (Milling)

National File & Tool Co. ("Vixen"), 2110 W Allegheny av, Phila., Pa.

### 3581– Files (Side)

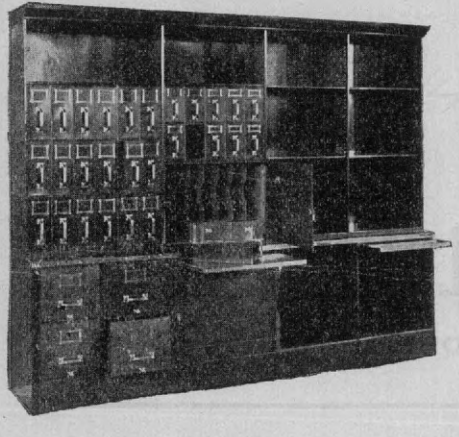
Stearns, E. C. & Co., Syracuse, N. Y.

### 3581a–Files ("Weed's Special" Blunt)

**NICHOLSON FILE CO., Providence,** R. I. (See adv. index & branch offices, end of book)

### 3582–Filing Cabinets & Devices

Amberg File & Index Co., 1400 Fulton, Chicago, Ill.
American Sectional Furniture Co. (Sectional Stack, Top Book Case, Card Indexes, Document Files, etc.), Minneapolis, Minn.
Armor Clad Mfg. Co., Canton, Ohio
Art Metal Construction Co. (Sheet Steel), Jamestown, N. Y.
Automatic Account File Co., Quincy, Ill.
Automatic File & Index Co. (Automatic Vertical & Sectional Filing Cabinets, etc.), Green Bay, Wis.
Baker-Vawter Co. (Steel), Tribune bldg, Chicago, Ill.
**BERGER MFG. CO., THE (Steel),** Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Browne-Morse Co., Muskegon, Mich.
Caldwell, Jos. S. ("Well's" Adjustable, Wood Only), Syracuse, N. Y.
Canton Art Metal Co. ("Steel"), Canton, O.
**CANTON MFG. CO. (Wood & Steel),** Canton, O. (See adv. index, end of book)
Dick, A. B. Co., 736 Jackson boul, Chicago, Ill.
Diven Mfg. Co., Elmira, N. Y.
Economy Drawing Table Co. (For Blue Prints, etc.), Toledo, O.

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Steel Court House Equipment
Steel Office Equipment

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Ehman, C. & Co. (Index Cabinets & Sectional Filing), Decatur, Ill.
Federal Steel Fixture Co. (Steel), 4545 W Homer, Chicago, Ill.
**FIRE-PROOF FURNITURE & CONS**truction Co. (Steel for Public Building, General Office, Municipalities, etc.), Miamisburg, O. (See adv. index, end of book)
**GENERAL FIREPROOFING CO. ("All**steel", Metallic "Waettes"), Youngstown, O. (See adv. index & branch offices, end of book)
Globe-Wernicke Co. (Sectional Wood & Steel), Cincinnati, O.
**Gunn Furniture Co.**, Grand Rapids, Mich.
Household Cabinet Works, Providence, R. I.
Imperial Steel Cabinet Co. (Steel), 2144 Fulton, Chicago, Ill.
Koller & Smith (Inc.), 112 Worth, New York
Library Bureau (Metallic & Wood), Boston, Macey Co. (Ltd.), Grand Rapids, Mich. Mass.
**Ohmer's, M. Sons Co., Dayton, O.**
Rockwell-Wabash Co., 170 Wabash av, Chicago, Ill.
Ross Mfg. Co. (Wood), Muskegon, Mich.
Shaw-Walker Co., Muskegon, Mich.
Shelbyville Desk Co. (Wood), Shelbyville, Ind.
Steel Fixture Mfg. Co. (Metallic), Topeka, Kan.
Van Dorn Iron Works Co. (Steel), 2685 N 79th, Cleveland, O.
Unit Steel Cabinet Co. (Metallic), 332 B'way, New York
Vetter Desk Works (Wood), Rochester, N. Y.
Wabash Cabinet Co., Wabash, Ind.
Wagemaker Co., Grand Rapids, Mich.
Weis Mfg. Co. ("Weis," Wood & Fibre), Monroe, Mich.
Yawman & Erbe Mfg. Co., Rochester, N. Y.

## 3583—Filing Case Flexible Fronts

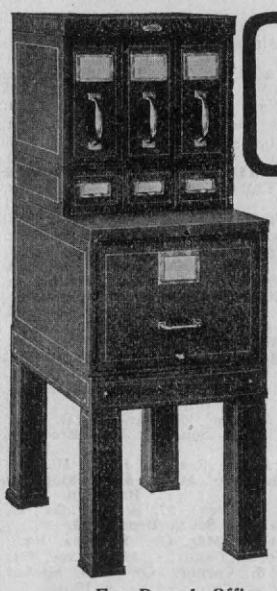
Grant Pulley & Hardware Co. ("Flexifold"), 3 W 29th, New York

## 3584— Fillers (Asphalt)

American Asphaltum & Rubber Co., Harvester bldg, Chicago, Ill.
Ellis Co. ("Bitose"), East Brooklyn, Md.
General Asphalt Products Supply Co. ("Boorman's Nofux"), 59 Pearl, New York
Impervious Product Co. ("Fairfield"), Baltimore, Md.
Lewis, F. J. Mfg. Co. ("Lewis" Pitch for Brick, Granite & Creosote Block Pavement), 2513 Robey, Chicago, Ill. Works, Moline, Ill.
Standard Asphalt & Rubber Co. ("Sarco," for Deadening & Waterproofing Brick & Block Pavements), 205 Lasalle, Chicago, Ill.
Texas Co. ("Texaco," for Brick, Wood Block & Granite Pavements), Houston, Tex., & 17 Battery pl, New York

## 3585— Fillers (Barrel)

Cleveland Steam Gauge Co. ("Watson" Automatic), Cleveland, O.
Kelso & Co. (Automatic), 559 W Quincy, Chicago, Ill.
**Moran Flexible Steam Joint Co.** (Automatic), Louisville, Ky.

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For Branch Office Addresses, See Advertisers' Index, End of Book


## 3586—Fillers (Dry Battery)

International Acheson Graphite Co. ("Acheson" Graphite), Niagara Falls, N. Y.

## 3586a—Fillers (Dry Earth)

**WILBUR, J. CO. Office, Providence,** R. I. Factory, Phila., Pa. (See adv. index, end of book)

## 3587—Fillers (Engineers' Oil)

Consolidated Fruit Jar Co. (Brass, Copper & Zinc), New Brunswick, N. J
Hero Mfg. Co., Gaul & Adams, Phila., Pa.
Wall, P. Mfg. Supply Co., N S, Pittsburg, Pa.

## Fillers (Ice Can)

Burns, Jas. F., 715 Cherry, Phila., Pa.
Canton Paint & Varnish Co., Canton, O.
Great Lakes Engineering Works (For Mfrs. of Artificial Ice, Automatic), Detroit, Mich.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
Wolf, Fred W. Co. (For Mfrs. of Artificial Ice), 827 Rees, Chicago, Ill.

## Fillers (Iron Casting)

(See Cement, Iron & Steel Filler)

## 3589—Fillers (Iron & Steel)

Acme White Lead & Color Wks, Detroit, Mich.
**BINSWANGER, B. & CO., 115 N 4th,** Phila., Pa.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Grogan, H. F. & Co., 2113 E Sergent, Phila., Pa.
Keystone Paint & Filler Co., Muncy, Pa.
King Paint Mfg. Co. (Iron), 27 Dunham pl, Brooklyn, N. Y.
Lawrence-McFadden Co., 1400 Franklin, Phila.,
Lawrence, W. W. & Co., Pittsburg, Pa. Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
**NEVIN, T. H. CO., North Side, Pittsburg,** Pa. (See adv. index, end of book)
Patton Paint Co. ("James", "Patton"), Milwaukee, Wis.
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa.
St. Paul White Lead & Oil Co., St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., 141 B'way, New York
Suydam, M. B. Co., Pittsburg, Pa.




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**U. S. GUTTA PERCHA PAINT CO.** ("Rice's," Corliss, Vulcan), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
United States Paint Co., Williamsport, Pa.
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
**WILBUR, J. CO. (Iron), Office, Providence, R. I. Factory, Phila., Pa.** (See adv. index, end of book)
Wilhelm, A. Co. (Liquid & Paste), Reading, Pa.

## 3590— Fillers (Paint)

St. Louis Surfacer & Paint Co. ("Metal-Steel), St. Louis, Mo.
Wainwright, John C. A., Spring City, Pa.

## 3591—Fillers (Paper & Linoleum)

Macneal, James B. & Co., Baltimore, Md.

## 3592— Fillers (Rope)

Ironsides Co. ("Ironsides" for Wire & Fibre Rope), Columbus, O.
Ohio Filler & Shield Co., Columbus, O.

## 3593— Fillers (Wood)

Acme White Lead & Color Works, Detroit, Mich.
Adams & Elting Co., 722 W Wash'n, Chicago, Ill.
Akron Varnish Co. (Liquid), Akron, O.
Allentown Mfg. Co. (Paste), Allentown, Pa.
Armitage, Jno. L. & Co., Newark, N. J.
Atlantic Dryer & Varnish Co., S Swanson & McKean, Phila., Pa.
Barrett, Chas. A. P. Co., Dayton, O.
Blood, T. L. & Co., St. Paul, Minn.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
Bradford, Jas. Co., Wilmington, Del.
Bridgeport Wood Finishing Co. ("Wheeler's"), New Milford, Conn.
Buckeye Paint & Varnish Co., Toledo, O.
Burdsal, A. Co., Indianapolis, Ind.
Butterworth, C. H. Co. ("American"), Camden, N. J.
Cambria Paint & Color Co., Johnstown, Pa.
Canton Paint & Varnish Co., Canton, O.
Chase, Roberts & Co., Long Island City, N. Y.
Chesapeake Oil Co., Baltimore, Md.
Chicago Wood Finishing Co., 1216 Elston, Chicago, Ill.
Devoe, F. W. & T. C. Raynolds, 101 Fulton, New York
Eagle Paint & Varnish Co., N S, Pittsburg, Pa.
Felton Sibley & Co., 136 N 4th. Phila., Pa.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Graves, N. Z. & Co. (Ltd.), 3d c Arch, Phila.,
Grippin Mfg. Co., Newark, N. Y. Pa.
Grogan, H. F. & Co., 2113 E Sergeant, Phila., Pa.
Howell, Chas. H. & Co., 212 Race, Phila., Pa.
Indianapolis Paint & Color Co., Indianapolis, Ind.
Kroeger Bros., 880 McKim, Baltimore, Md.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.
McCloskey, L. J. & Co., 30th & Locust, Phila., Pa.
Marietta Paint & Color Co., Marietta, O.
Masury, John W. & Son, 50 Jay, Brooklyn, N. Y.
Mepham, G. S. & Co., East St. Louis, Ill.
Moller & Schumann Co., Marcy & Flushing avs, Brooklyn, N. Y.
Nice, Eugene E. ("Nice"), 272 S 2d, Phila., Pa.
O'Brien Varnish Co., South Bend, Ind.
Paradox Wood Filler Mfg. Co., Ephrata, Pa.
Patton Paint Co. ("Tector"), Milwaukee, Wis.
Phoenix Paint & Varnish Co., 124 Market. Phila., Pa.
Pomerroy & Fischer, 28 Frankfort, New York
Ruth, B. F. & Co., Reading, Pa.
St. Louis Surfacer & Paint Co., St. Louis, Mo.
St. Paul White Lead & Oil Co., St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
Shoemaker, R. & Co., 4th & Race, Phila., Pa.
Smith, Edw. & Co., 141 B'way, New York
Suydam, M. B. Co., Pittsburg, Pa.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
Ullmann-Philpott Co., 1592 Merwin av, N W, Cleveland, O
United States Paint Co., Williamsport, Pa.
Wadsworth-Howland & Co., Boston, Mass.
Waterproof Paint Co., Watertown, Mass.
Waterall, Wm. & Co., 200 N 4th, Phila., Pa.
Whitehead, J. W. Jr. ("Whitehead"), 1 Madison av, New York
Woodhouse, Sam'l F. (Liquid & Paste), Unity & Franklin, Phila., Pa.

## 3594— Fillets (Leather)

Benskin Mfg. Co., Canton, O.
Cleveland Fillet Co. ("Crescent," Wood & Leather), Cleveland, O.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Page Belting Co., Concord, N. H.
Shanafelt Mfg. Co. ("Belding"), Canton, O.
Wellman Pattern Supply Co. ("Crescent", Wood & Leather), Cleveland, O.

## 3595— Fillets (Pattern)

Brodin Mfg. Co. (Wood & Composition), 2418 W 16th, Chicago, Ill.
Cleveland Fillet Co., Cleveland, O.
Cleveland Galvanizing Works (Steel), Cleveland, O.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Oliver Machinery Co., Grand Rapids, Mich.
Shanafelt Mfg. Co. (Obtuse Angle Wood), Canton O.
Wellman Pattern Supply Co., Cleveland, O.

## 3596—Fillings (Chemical Tower)

(See also Stoneware, Chemical)
Didier-March Co. ("Scherfenberg," Packing), 50 Church, New York
Graham, Chas. Chemical Pottery Wks., Brooklyn, N. Y.
Laclede-Christy Clay Products Co., St. Louis, Mo.
Weeks, A. J., Akron, O.

## 3597— Filter Equipment

**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

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## 3598—Filtering & Purifying Plants Installed

American Water Softener Co., 1009 Chestnut, Phila., Pa.
Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Hygeia Filter Co., Detroit, Mich.
Loomis-Manning Filter Co., 828 Land Title bldg, Phila., Pa.
**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Pittsburg Filter Mfg. Co. ("Jewell"), Pittsburg, Pa.
Reisert Water Purifying Co., 30 Church, New York
Roberts Filter Mfg. Co. ("Jewell"), Darby, Pa.
**SCAIFE, WM. B., & SONS CO. ("Scaife" & "We-Fu-Go" Systems),** 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Shriver, T. & Co., Harrison, N. J.

## 3599—Filters (Ale & Beer)

Loew Mfg. Co. ("Loew"), Cleveland, O.
Rheinstrom Bros. ("Karl Kiefer"), 919 Martin, Cincinnati, O.

## Filters (Bag)

(Is Classified in its order, under Sugar Machinery, in the Letter S)

## 3600— Filters (Charcoal)

American Water Softener Co., 1009 Chestnut, Phila., Pa.
Hygeia Filter Co., Detroit, Mich.
Loomis-Manning Filter Co., 828 Land Title bldg, Phila., Pa.
**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Pittsburg Filter Mfg. Co. ("Jewell"), Pittsburg, Pa.
Roberts Filter Mfg. Co. ("Jewell"), Darby, Pa.
**SCAIFE, WM. B., & SONS CO. (Combination Charcoal & Sand),** 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

## 3601— Filters (Concrete)

**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

## Filters (Cyanide)

(See Filters, Slime)

## 3602— Filters (Faucet)

Boston Brass Co., Boston, Mass.
Brass Goods Mfg. Co. ("I. C." Reversible Self-Cleaning), Brooklyn, N. Y.
Champion Safety Lock Co. ("Champion," Germ Proof), Geneva, O.
Haydenville Co., Haydenville, Mass.
Houchin, Thos. W. Co. ("Houchin," Reversible), 318 B'way, New York
Hygeia Filter Co., Detroit, Mich.
Jones Mfg. Co., Boston, Mass.
Landers, Frary & Clark ("Crown"), New Britain, Conn.
Roberts Filter Mfg. Co. ("Jewel"), Darby, Pa.
Seed Filter & Mfg. Co. ("Gate City" Pressure, "Hygienic," "Seeds," "Acme"), 93 Reade, New York

## 3603—Filters (Feed Water)

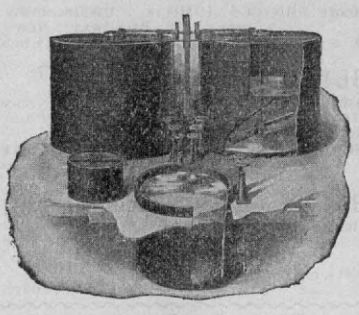
Acton, John ("Nelson"), 118 John, Brooklyn, N. Y.
American Steam Gauge & Valve Mfg. Co. ("American"), Boston, Mass.
American Water Softener Co. ("Brunn-Lowener"), 1009 Chestnut, Phila., Pa.
Baragwanath, Wm. & Son, 1260 W Division, Chicago, Ill.
Bates Machine Co. ("Cookston" Combination), Joliet, Ill.

Steam Specialists
JAMES BEGGS & CO.

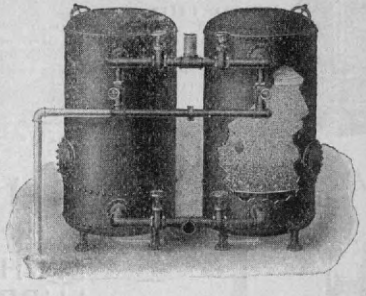
(Blackburn-Smith Feed Water Filter & Grease Extractor), Liberty & Church, New York
Boston Steam Specialty Co., 168 Congress, Boston, Mass.
Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
General Engineering Co. (Inc.), 10 N 13th, Phila., Pa.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Harrison Safety Boiler Works ("Sorge"), 17th below Allegheny av, Phila., Pa.
Hygeia Filter Co., Detroit, Mich.
International Filter Co., 17th & Wabash av, Chicago, Ill.
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Keystone Chemical Mfg. Co. ("Keystone" Pressure), Penna. bldg, Phila., Pa.
Liberty Mfg. Co., 6907 Susquehanna av, Pittsburg, Pa.
Loomis-Manning Filter Co., 828 Land Title bldg, Phila., Pa.
McGowan, Jno. H. Co., Cincinnati, O.
Marion Incline Heater & Filter Co., Marion, Ohio
Miller, Alex. & Bro. ("Krause" Absorbent Process), ft. Morris, Jersey City, N. J.
**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Norwood Engineering Co. ("Jewell"), Florence, Mass.
Pittsburg Filter Mfg. Co. ("Jewell"), Pittsburg, Pa.
Platt Iron Works Co., Dayton, O.
Roberts Filter Mfg. Co. ("Jewell"), Darby, Pa.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

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"WE-FU-GO" AND "SCAIFE" SYSTEMS



For all Industrial and Domestic Uses

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Ross Valve Mfg. Co. ("Railton," "Campbell"), Troy, N. Y
**SCAIFE, WM. B. & SONS CO. ("Scientific"),** 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Steam Appliance Mfg. Co., Batavia, N. Y.
U. S. Wind Engine & Pump Co. ("Tweeddale"), Batavia, Ill.

## 3604— Filters (Gasoline)

Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.

## 3605—Filters (Gravity & Pressure)

Blaisdell Co. (Pressure, for Filtering & Washing Slime), Los Angeles, Cal.
Cummings Filter Co. (Pressure Only), 27th & Liberty, Pittsburg, Pa.
Field Force Pump Co. ("Carter's"), Elmira, N. Y.
Greer Filter Mfg. Co., Perry bldg., Pittsburg, Pa.
**HAMMOND IRON WORKS (Pressure),** Warren, Pa. (See adv. index & branch offices, end of book)
Hygeia Filter Co. (Gravity Only), Detroit, Mich.
Keystone Chemical Mfg. Co. ("Keystone" Pressure Filter System), Penna. bldg, Phila., Pa.
Loomis-Manning Filter Co., 828 Land Title bldg, Phila., Pa.
Lynn-Superior Co., Cincinnati, O.
**NEW YORK CONTINENTAL JEWell Filtration Co.,** 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Norwood Engineering Co., Florence, Mass.
Pittsburg Filter Mfg. Co. ("Jewell"), Pittsburg, Pa.
Power Plant Specialty Co. ("Monarch"), Monadnock blk., Chicago, Ill.
Roberts Filter Mfg. Co. ("Jewell"), Darby, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa.** (See adv. index, end of book)
Sucro Filter Co. ("Sucro"), 42 B'way, New York

## Filters (Mechanical)

(See Filters, Gravity & Pressure; also Filters, Mechanical, Sugar)

## 3606— Filters (Oil)

Acton, John ("Nelson"), Brooklyn, N. Y.
Akron Belting Co. ("Krotz"), Akron, O.
Anderson, V. D. Co. (2 to 40 gal. per hour), Cleveland, O.
Bailey, F. E. & Co. ("Rival"), Atlanta, Ga.
Boston Steam Specialty Co. ("Fleur-de-Lis"), Boston, Mass.
Bousman Mfg. Co., Grand Rapids, Mich.
Burke Furnace Co. ("Burke"), 59 Clark, Chicago, Ill.
Burt Mfg. Co. ("Cross," "Warden," "American", "Burt"), 32 Main, Akron, O.
Capilar Oil Co. (For Export), 136 S 4th, Phila.,
Capital Brass Works, Detroit, Mich. Pa.
Chesterton, A. W. & Co., 64 India, Boston, Mass.
Collins Mfg. Co. ("Dixie" Automatic Oiling System), 612 Chestnut, Phila., Pa.
Durable Steam Trap Co., Youngstown, O.
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLOWER, WALTER L. CO. ("Acme"),** 507 S 8th, St. Louis, Mo. (See adv. index, end of book)
Franklin Oil Filter Co. ("Famous," "Franklin"), 388 N Commercial, St. Louis, Mo.
Gallway, G. W. ("Economy"), 322 Pearl, New York
**GODFREY-KEELER CO., 70 Warren,** New York (See adv. index, end of book)
Hall Mfg. Co. ("Hall," "Bartow Duplex," for Waste Oil), John & Cliff, New York
Handlan-Buck Mfg. Co. ("Superior"), St. Louis, Mo.
Houghton, E. F. & Co. (The "Houghton"), 240 W Somerset, Phila., Pa.
Hudson Rolling Mill Co. ("Hudson"), Bloomfield, N. J.
**INDUSTRIAL INSTRUMENT CO.** ("Eclipse"), Foxboro, Mass. (See adv. index & branch offices, end of book)
Jarecki Mfg. Co. (Automatic Pressure), Erie, Pa.
Jones Mfg. Co. ("Jones"), Youngstown, O.
Liberty Mfg. Co. ("Famous"), Pittsburg, Pa.
Lippincott Steam Specialty & Supply Co., Newark, N. J.
Mauer, Wm. & Co. ("X-Ray"), South Bend, Ind.
Metz, R. O. Mfg. Co. ("Standard"), 608 N Hancock, Phila., Pa.
National Separator & Machine Co., Concord, N. H.
National Valve & Mfg. Co., Pittsburg, Pa.
Newman-Willson Co. ("New Wonder"), Lambertville, N. J.
Northrup Lubricator Co. ("Famous"), St. Louis, Mo.
Nusbaum, F. A. ("Columbus"), Lockland, O.
Oil & Waste Savingv Machine Co. (Turbine Centrifugal), Real Estate Trust bldg, Phila., Pa.
Peirce, Adams True ("Porter"), Dover, N. H.
Phoenix Automatic Filter Co. ("Tracy"), Racine, Wis.
**PITTSBURGH GAGE & SUPPLY CO.** ("White Star"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Purity Oil Filter Mfg. Co. ("Ideal" & "Purity"), Pittsburg, Pa.
Richardson-Phenix Co., Milwaukee, Wis.
Robertson, Jas. L. & Sons (Inc.), 78 Murray, New York
Scranton Oil Filter Co., Scranton, Pa.
**SHAW, BENJ. F. CO ("Shawco"), Wilmington,** Del. (See adv. index, end of book)
Sims Co., Erie, Pa.
Syracuse Gauge Mfg. Co., Syracuse, N. Y.
Turner Oil Filter Co. ("Turner"), Niles, Mich.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)
Wright Mfg. Co., Detroit, Mich.

## Filters (Oil, from Metal Chips)

(See Separators, Centrifugal)

## 3607—Filters (Oil Refiners')

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)

## 3609— Filters (Sand)

American Water Softener Co., 1009 Chestnut, Phila., Pa.
Hygeia Filter Co., Detroit, Mich.
Kilby Mfg. Co., Cleveland, O.
Loomis-Manning Filter Co., 828 Land Title bldg, Phila., Pa.
**NEW YORK CONTINENTAL JEWELL Filtration Co.,** 15 Broad, New York & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Pittsburg Filter Mfg. Co., Pittsburg, Pa.
Remmers, B. & Sons (Automatic, for Sugar, Glucose & Chemical Liquors, etc.), Bourse bldg, Phila., Pa.
Roberts Filter Mfg. Co., Darby, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa.** (See adv. index, end of book)

## 3610— Filters (Slime)

Blaisdell Co. (Vacuum), Los Angeles, Cal.
Burt, Edwin ("Burt"), El Paso, Tex.
Butters Patent Vacuum Filter Co. ("Butters"), San Francisco, Cal. & 30 Church, New York
Chalmers & Williams ("Burt" Rapid Cyanide Filter), Chicago Heights, Ill.
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Kelly Filter Press Co. ("Kelly"), Salt Lake City, Utah
Moore Filter Co. ("Moore," Displacement Process), 170 Broadway, New York
Oliver Continuous Filter Co., San Francisco, Cal.

## 3611— Filters (Tripoli)

American Water Softener Co., 1009 Chestnut, Phila., Pa.
Hygeia Filter Co., Detroit, Mich.
Roberts Filter Mfg. Co., Darby, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa.** (See adv. index, end of book)

## 3612— Filters (Vacuum)

Butters Patent Vacuum Filter Co. ("Butters" Slime), San Francisco, Cal., & 30 Church, New York
Taylor Foundry & Engineering Co., Grass Valley, Cal.



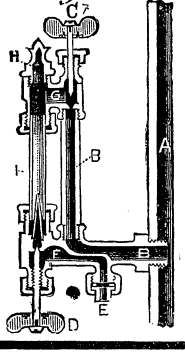

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Walter L. Flower Company, St. Louis, Mo.
Gentlemen:—We have used one of your ACME Oil Filters for about eighteen months. Prior to its adoption we were using eleven barrels of engine oil per year. Now our consumption is only four. This result is self-explanatory. Yours very truly, BEALL BROS.
By A. Dodson, Engineer."

Are you open to conviction? Yes; then send for our booklet and we will prove that we can make an ACME FILTER save you one barrel of oil out of three.

*Fig. 2*




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**Insures a supply of just the right quantity of oil at the right time in the right place regardless of viscosity of the oil or varying temperatures.**




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## Filters (Waste Oil)

(See Filters, Oil)

## 3613– Filters (Water)

American Filter Co. ("Noxall"), Milwaukee, Wis.
American Sterilizer Co., Erie Pa.
American Water Softener Co., 1009 Chestnut, Phila., Pa.
Atlantic Filter Co. ("Paddock"), White bldg, Buffalo, N. Y.
Berkefeld Filter Co. (A. Giesse), 4 Cedar, New York
Bishop-Babcock-Becker Co. ("Eureka"), Cleveland, Ohio
Boston Filter Co. ("Boston" Water Purifier), Chelsea, Mass.
Buffalo Mfg. Co., Buffalo, N. Y.
Buhring Water Purifying Co., 68 Murray, New York
Champion Safety Lock Co. ("Champion" Germ Proof), Geneva, O.
Crescent Filter & Specialty Co. ("Crescent"), New Orleans, La.
Cummings Filter Co. (Bone Black Only), Pitts-
Dodge Mfg. Co., Mishawaka, Ind. burg, Pa.
Ellis Purifier Co. ("Ellis"), Brockton, Mass.
**Field, David W., Builders' Exchange, Phila., Pa.**
**Fulper Pottery Co. (Portable Natural Stone, Germ Proof), Flemington, N. J.**
General Engineering Co. (Inc.), 10 N 13th, Phila., Pa.
Greer Filter Mfg. Co. (Inc.), Pittsburg, Pa.
**GRISCOM-SPENCER CO. ("Reilly"),** 90 West, New York (See adv. index & branch offices, end of book)
Hungerford & Terry (Inc.) ("Hungerford"), Penna. bldg, Phila., Pa.
Hygeia Filter Co., Detroit, Mich.
International Filter Co., 17th & Wabash av, Chicago, Ill.
Jewell Engineering Co. ("Pioneer-Jewell," Turbine Wash, "Quartz"), 810 W Lake, Chicago, Ill.
**Jones Mfg. Co. ("Gem," "Hub," "Modern," "Mystic"), 243 Franklin, Boston, Mass.**
Knoble Filter Co., 1604 Clybourn av, Chicago, Ill.
**KOVEN, L. O. & BRO., 50 Cliff, New** York (See adv. index, end of book)
Loomis-Manning Filter Co., 828 Land Title bldg, Phila., Pa.
Lynn-Superior Co. (Quartz Filters), 3250 Spring Grove av, Cincinnati, O.
McDowell Mfg. Co. (Electric Ozone), Pittsburg, Pa.
Moore & White Co. ("Fullner"), Phila., Pa.
National Separator & Machine Co., Concord, New York
**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Norwood Engineering Co. ("Jewell" Filters for Mills), Florence, Mass.
Osinego Filter Co. ("Cox" Self Cleaning Cistern Water Filter), Osinego, N. Y.
Pasteur-Chamberland Filter Co. (Pasteur Germ Proof), Dayton, O.
Penn Engineering Co. (Inc.) (Of All Descriptions), 1421 Filbert, Phila., Pa.
Philadelphia Water Purification Co. ("Elfreth"), 1700 N 12th, Phila., Pa.
Pittsburg Filter Mfg. Co., Pittsburg, Pa.
Rapid Safety Filter Co., 135 Front, New York
Roberts Filter Mfg. Co. (For Every Purpose), Darby, Pa.
**SCAIFE, WM. B. & SONS CO. (For** Dwellings, Hotels, Hospitals, etc.), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Squire Filter Co. ("Crystal Fountain"), Dayton, O.
Sucro Filter Co. ("Sucro" Gravity), 42 B'way, New York
Watson, N. A. Brass Works, Erie, Pa.
Wetherill, R. & Co. (For Water Works), Chester, Pa.

## 3614–Filters (Water, Portable)

Aquapura Filter Mfg. Co., 120 N 2d, St. Louis, Mo.
Buffalo Mfg. Co., Buffalo, N. Y.
Champion Safety Lock Co. (Germ Proof), Geneva, O.
Deane, E. L. ("Wilson" House), Holyoke, Mass.
Hygeia Filter Co., Detroit, Mich.
Linke Acorn & Advance Filter Co. (Stone Tub). 1559 B'way, New York
Royal Machine Co., Newark, N. J.

## 3615–Finger Cots (Rubber)

Canton Rubber Co., Canton, O.
Cleveland, Rubber Co., Cleveland, O.
Davidson Rubber Co., Boston, Mass.
Davol Rubber Co., Providence, R. I.
Faultless Rubber Mfg. Co., Akron, O.
Huron Rubber Co., Cleveland, O.
Rubber Products Co., Barberton, O.

## 3616–Fingers (Grain Cradle)

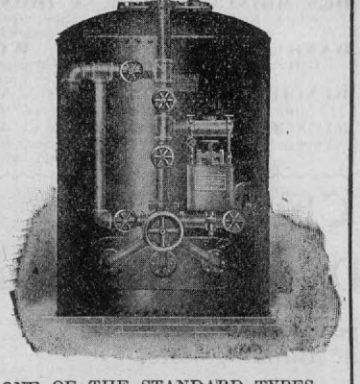
Montross, R. W. ("Morgan"), Galien, Mich.
Spear, W. D., Conewango, N. Y.

## 3618–Fire Brick (Ground)

Gautier, J. H. & Co. (In Barrels or Bulk), Jersey City, N. J.

## 3619– Fire Clay

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)
Atlanta Terra Cotta Co., East Point, Ga.
Baltimore Retort & Fire Brick Co., Baltimore, Md.
Baltimore Terra Cotta Works (Ground & in Bulk), Baltimore, Md.
Berry, James E., Woodbridge, N. J.
Bickford Fire Brick Co. (In Bulk or Sacks), Curwensville, Pa.
Borgner, Cyrus Co., 23d ab. Race, Phila., Pa.
Brooklyn Fire Brick Works (Inc.), 88 Van Dyke, Brooklyn, N. Y.
Buckeye Fire Clay Co. (Ground, etc.), Uhrichsville, O.
Carnegie Brick & Pottery Co., San Francisco, Cal.
Clark, N. & Sons, 116 Natoma, San Francisco, Cal.
Cooper, John, 111 Clay, Brooklyn, N. Y.
Crossley, Geo. C. Co., Trenton, N. J.
**Denny-Renton Clay & Coal Co., Seattle, Wash.**
Didier-March Co., 30 Church, New York; Works: Keasby, N. J.
**Dover Fire Brick Co., Cuyahoga Bldg., Cleveland, O. Works, Strasburg, O.**
Edgar Bros. Co., Metuchen, N. J.
Edgar, Chas. S. Metuchen, N. J.
Excelsior Fire Clay Co., Lisbon, O.
Federal Clay Product Co., Mineral City, O.
Fiske & Company (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York
**Fultonham Brick Co. (Ground), Axline, O.**
**Garfield Fire Clay Co., Robinson, Pa.**
Gautier, J. H. & Co. (Also Ground), Jersey City, N. J.
**HARBISON-WALKER REFRACTOR-**ies Co. (For All Purposes), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Hocking Valley Fire Clay Co. (Ground), Nelsonville, O.
Iowa Pipe & Tile Co., Des Moines, Ia.
**KREISCHER BRICK MFG. CO., 119** E 23d, New York. Works, Kreischerville, S. I., N. Y. (See adv. index, end of book)
La Clede-Christy Clay Products Co., St. Louis, Mo.
Leisen, H. K., Woodbridge, N. J.
Little Falls Fire Clay Co., Little Falls, Wash.
McCormick, J. S. Co. (Welsh Mountain), Pittsburg, Pa.
McHose, L. H., Perth Amboy, N. J.
**McLEOD & HENRY CO. (Back Com-**bustion Chamber Arch), Troy, N. Y. (See adv. index, end of book)
Mack Mfg. Co., Fidelity bldg, Phila., Pa. Works, New Cumberland, W. Va.
Manown Mfg. Co. (Ground), Pittsburg, Pa.
Massillon Stone & Fire Brick Co., Massillon, Ohio
**MAURER, HENRY & SON (Ground** & in Bulk), 420 E 23d, New York; Penna. bldg, Philadelphia, Pa.; Works: Maurer, N. J. (See adv. Front Inside Cover)
**MISSISSIPPI GLASS CO. (Cupola** Linings or Blocks), 115 B'way, New York. (See adv. index & branch offices, end of book)
Monmouth Mining & Mfg. Co., Monmouth, Ill.
Mutton Hollow Fire Brick Co. (Ground), Woodbridge, N. J.
Negley Clay Co., Negley, O.
Nelsonville Brick Co. (Ground), Nelsonville, O.
Ohio Fire Brick Co., Oak Hill, O.
Ohio Fire Clay Mfg. Co., Steubenville, O.
Osceola Silica & Fire Brick Co., Osceola Mills, Pa.
Peekskill Fire Brick Works, Peekskill, N. Y.
Penna Fire Brick Co., Beech Creek, Pa.
Philadelphia Fire Brick Works, 2306 Vine, Phila., Pa.
Presbrey Stove Lining Co., Taunton, Mass.
Raritan Ridge Clay Co., Metuchen, N. J.
Reeve, Augustus, Camden, N. J.
Robertson, Wm. & Son, New Brighton, Pa.
Robinson Clay Product Co, (Ground), Akron, O.

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The acknowledged standard of Mechanical Filtration for City and Town Supplies, Residences, Hotels, Office Buildings, Laundries, Mills, Dye and Bleach Works, Bottlers, etc., etc.

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**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end book)
St. Louis Vitrified & Fire Brick Co., St. Louis,
Sedalia Clay Mfg. Co., Sedalia, Mo.
Smith, A. F. Co., New Brighton, Pa.
Southern Fire Brick & Clay Co., 138 Washington, Chicago, Ill.; Works: Mt. Silica, Ind.
**SPRINGFIELD FACING CO., Springfield,** Mass. (See adv. index, end of book)
Standard Fire Brick Co., Pittsburg, Pa.
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
Stevens, H. & Sons Co. (Milled), Macon, Ga.
Stratton Fire Clay Co., Empire, O.
Streator Clay Mfg. Co., Streator, Ill.
Sweeney, Geo. & Co., 1334 Ridge av, Phila.,
Union Mining Co., Mount Savage, Md. Pa.
Valentine, E. W. & Bros., Woodbridge, N. J.
Vulcan Fire Brick Co., 218 E Lexington, Baltimore, Md.
Washington Brick, Lime & Mfg. Co. (Milled & Screened), Spokane, Wash.
Wassal Fire Clay Co., Columbus, O.
West Virginia Fire Clay Mfg. Co. (Ground, Flaked or Dust, etc.), Pittsburg, Pa.
Wynn, W. H. & Co., Blue Bell, Pa.

## Fire Department Supplies

(Consult Index of Contents for the Particular Article Required; See also Mill & Factory Supplies)

## 3620—Fire Door Fittings (Automatic)

Allith Mfg. Co. ("Allith"), Chicago, Ill.
Automatic Door & Gate Co., 123 Liberty, New York
Brewer Bros. (Rails, Brackets, etc.), 614 Filbert, Philadelphia, Pa.
California Fire Proof Door Co. ("Wilcox"). Los Angeles, Cal.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Keystone Fire Door Co. (Inc.) ("Standard"), Park bldg., Pittsburg, Pa.
Dentler Bagger Co., Vicksburg, Mich.
Lane Bros. Co., Poughkeepsie, N. Y.
**McCABE HANGER MFG. CO., 425 W.** 25th, New York. (See adv. index, end of book)
**NEWHALL, HENRY B., 90 West, New York**
Peters, James & Son (Sliding & Swinging Automatic Fire Door & Shutter Hardware), 1934 N. Front, Philadelphia, Pa.
Prouty, T. C. Co. (Ltd.), Albion, Mich.
**RICHARDS - WILCOX MFG. CO.** ("Richards-Wilcox"), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Richmond Safety Gate Co., Richmond, Ind.
Shields, J. H., Cincinnati, O.
Stowell Mfg. & Foundry Co., So. Milwaukee, Wis.
Victor Mfg. Co. (Heat Releasing Devices), Newburyport, Mass.

## 3621—Fire Doors (Automatic)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Keystone Fire Door Co. (Inc.) ("Standard" Tin Clad), N S, Pittsburg, Pa.
Richmond Safety Gate Co., Richmond, Ind.
Shields, J. H., Cincinnati, O.
Underwriters' Hatch Door Co. (Electric), 1741 Walnut, Chicago, Ill.
**UNITED STATES METAL PRODUCTS** Co., General Offices, 205 W 40th, New York; Works: College Point, N. Y. (See adv. index & branch offices, end of book)

## 3622—Fire Engines (Chemical)

Ajax Fire Engine Works, 95 Liberty, New York
American Fire Apparatus Co., 1 Madison av, New York
America-La France Fire Engine Co., Elmira, N. Y.
**BADGER FIRE EXTINGUISHER CO.,** 32 Portland, Boston, Mass. (See adv. index & branch offices, end of book)
Boyd, James & Bro. ("Boyd," "Champion"), North American bldg, Phila., Pa.
Hayward, S. F. & Co., 39 Park pl, New York
Luitwieler Pumping Engine Co. (Automobile, Chemical), Rochester, N. Y.
Nott Fire Engine Co. Minneapolis, Minn.
Rex Fire Extinguisher Co., 74 Cortlandt, New York
Seagrave Co., Columbus, O.
Stempel Fire Extinguisher Mfg. Co., St. Louis, Mo.
Stewart, A. F. & S. C. (Combination Chemical Engines & Hose Wagons), Rochester, N. Y.
Tea Tray Co. ("Accurate"), Newark, N. J.
Webb Motor Fire Apparatus Co. (Automobile), St. Louis, Mo.

## 3623—Fire Engines (Gasoline)

Howe Engine Co., Indianapolis, Ind.
Luitwieler Pumping Engine Co. ("Luitwieler" Motor), Rochester, N. Y.
Waterous Engine Works Co., St. Paul, Minn.
Westinghouse Co., Schenectady, N. Y.

## 3624—Fire Engines (Hand)

American-La France Fire Engine Co., Elmira, N. Y.
**BADGER FIRE EXTINGUISHER CO.** (Chemical), 32 Portland, Boston, Mass. (See adv. index & branch offices, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

## 3625—Fire Engines (Steam)

Ahrens-Fox Fire Engine Co. ("Continental"), Cincinnati, O.
American-LaFrance Fire Engine Co. (Also Hand), Elmira, N. Y.
Nott Fire Engine Co., Minneapolis, Minn.

## 3626— Fire Escapes

(See also Iron, Architectural & Ornamental; also classifications following this heading)
**AMERICAN COUNTERBALANCE** Stair Co., 2550 Fillmore, Chicago, Ill.
**ARCHITECTURAL IRON & WIRE Works, Wheeling, W. Va.** (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
**COLUMBUS WIRE & IRON WORKS Co., Columbus, O.** (See adv. index, end of book)
**DARBY, EDW. & SONS CO., 231 Arch, Phila., Pa.** (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**HANKE IRON & WIRE WKS., 2550 Fillmore, Chicago, Ill.** (See adv index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 27th, New York. (See adv. index & branch offices, end of book)
**LANDON, E. R. IRON & WIRE WKS., 166 N. May, Chicago, Ill.** (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**REMPPIS, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa.** (See adv. index, end of book)
**RIESECK, P., Allegheny av & Rebecca (N. S.), Pittsburg, Pa.** (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa.** (See adv. index, end of book)
**UNION FOUNDRY WORKS 38 S Dearborn,** Chicago, Ill. (See adv. index, end of book)
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)

## 3627—Fire Escapes (Automatic)

Harris Safety Co., 24 E 23d, New York
Hayward, S. F. & Co., 39 Park pl, New York
McArthur Portable Fire Escape Co., 1999 Clark av, S. W., Cleveland, O.
United States Fire Protection Co. ("Davy's"), Utica, N. Y.

## 3627a—Fire Escapes ("Duplex" Chute)

**RIESECK, P., Allegheny, av. & Rebecca,** N S, Pittsburg, Pa. (See adv. index, end of book)

## 3628—Fire Escapes (Portable)

American Fire Apparatus Co. (Chain Ladders), 1 Madison av, New York
Hamblin & Russell Mfg. Co. ("Lodewick's" Steel Non-Combustible), Worcester, Mass.
Hayward, S. F. & Co. ("Wilson"), 39 Park pl, New York
McArthur Portable Fire Escape Co. ("McArthur"), Cleveland, O.

## 3629—Fire Escapes (Rope)

Hayward, S. F. & Co., 39 Park pl, New York
Home Chemical Co. ("Safety," Waterproof Rope), Rochester, N. Y.
Travers, J. P. & Son, 46 Beekman, New York
Whitner Safety Device Co., Chicago, Ill.

## 3630—Fire Escapes (Spiral)

American Metal Stamping Co. (All Steel), 20 E Herman, Phila., Pa.
Burr, E. M. & Co., Champaign, Ill.
Dow Wire & Iron Works ("Kirker-Bender"), Louisville, Ky.
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)

## 3631—Fire Escapes (Stairway)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**HANKE IRON & WIRE WORKS** ("Hanke"), 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
**RIESECK, P., Allegheny, av. & Rebecca,** N S, Pittsburg, Pa. (See adv. index, end of book)


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**Badger Fire Extinguisher Company** 32 Portland Street Boston, Mass., U.S.A.


## 3632– Fire Extinguishers

(See also Sprinklers, Automatic Fire)

### CALIFORNIA.

SAN FRANCISCO—Goodyear Rubber Co., 573 Market

### ILLINOIS.

CHICAGO—Chicago Fire Apparatus Co. ("Chicago" Hand Pump), 22 Fifth av
Fire Extinguisher Mfg. Co., 373 Wabash av
General Fire Extinguisher Co. (Automatic), 184 La Salle
**JOHNS, H. W.-MANVILLE CO.** ("Manville" Dry Powder), 27 Michigan av. (See adv. index, end of book)
McMorran, Edw. E. & Co., 162 N Clinton
Miller Chemical Engine Co., 222 Huron
Niagara Fire Extinguisher Co., 159 Lasalle
JOLIET—Wilcox, C. C. (Dry Tube)

### INDIANA.

LOGANSPORT—Obenchain & Boyer

### MARYLAND.

BALTIMORE—Maryland Chemical Co., 404 N Greene

### MASSACHUSETTS.

BOSTON—**BADGER FIRE EXTINGUISHER** Co., 32 Portland. (See adv. index, end of book)
Barnes, Henry K. ("Fire King" Chemical) 234 Devonshire
Callahan, Cornelius Co., 127 Purchase
General Fire Extinguisher Co. (Automatic)
Knight & Thomas (Inc.) ("Underwriters' ") 99 State
Standard Extinguisher Co., 78 Portland
Walworth Mfg. Co., 128 to 136 Federal
HUBBARDSTON—McWilliams, J. E. & Son
LAWRENCE—Perkins, C. N. Co.

### MICHIGAN.

DETROIT—Ireland & Matthews Mfg. Co. ("I. & M.")
**JOHNS, H. W.-MANVILLE CO.** ("Manville" Dry Powder, "Success" Chemicals), 12 Jefferson av

### MISSOURI.

KANSAS CITY—**JOHNS, H. W.-MANville Co.** ("Manville" Dry Powder), 1416 Main. (See adv. index, end of book)
ST. LOUIS—General Fire Extinguisher Co. (Automatic)
Missouri Lamp & Mfg. Co. ("Acme," "Royal," "Phoenix," "Advance," "Missouri," "U. S.," "Rex" & "Able"), 114 Elm
Stempel Fire Extinguisher Mfg. Co., 4250 N 20th

### NEW JERSEY.

NEWARK—Tea Tray Co. ("Accurate," also "Marten" for Automobiles & Motor Boats, etc.), Mulberry c Murray
Tea Tray Co. ("Accurate," also "Marten" for Automobiles & Motor Boats, etc.), Mulberry c Murray
TRENTON—Hunt, Jas. B. Mfg. Co.

### NEW YORK.

BUFFALO—**DUSING & HUNT, 386 Michigan** av. (See adv. index, end of book)
General Fire Extinguisher Co. (Automatic)
Western Inspection Co.
NEW YORK—American Fire Apparatus Co., 1 Madison av
**BADGER FIRE EXTINGUISHER** Co., 84 William. (See adv. index, end of book)
Columbia Fire Extinguisher Co., 174 Centre
Durafort Co. ("Premier." Non-Freezing), 2
Fyricide Mfg. Co., 44 Murray
General Fire Extinguisher Co., 1 Liberty
Harris Safety Co., 24 E 23d
Hayward, S. F. & Co. ("Babcock," "Patrol," "Champion," "Liquid Seal" & "Rescue" Chemical; also Hand Grenades). 39 Park pl
International Sprinkler Co., 123 William
**JOHNS, H. W.-MANVILLE CO.** ("J-M Manville" Dry Powder, "J-M Success" Chemical), 100 William. (See adv. index, end of book)
Metropolitan Fire Extinguisher Co., 1133 B'way
Minimax Co. (Chemical), 198 W B'way
Pyrene Mfg. Co. ("Pyrene"), 410 E 32d
Rapid Safety Fire Exting. Co., 135 Front
Rex Fire Extinguisher Co., 74 Cortlandt
Rowe, A. C. & Son ("Knight," "Underwriters'" Hand), 280 B'way
Safety Fire Extinguisher Co., 29 W 42d
Salmon, H. H. & Co., 82 Wall


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**BUFFALO, N. Y.**


**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Vogel, Henry G. Co., 12 Walker
Woodhouse Mfg. Co., 50 W B'way
ROCHESTER—Home Chemical Co., 107 Adams
UTICA—Childs, O. J. Co. ("Child's," "Utica")


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### OHIO.

CINCINNATI—Cincinnati Tin & Japan Co., 310 Walnut
General Fire Extinguisher Co. (Automatic)
Thompson, Walter M.
CLEVELAND—General Fire Extinguisher Co.
COLUMBUS—Seagrave Co. (Automatic)

### PENNSYLVANIA.

LANCASTER—Royal Mfg. Co. ("Quick Out")
PHILADELPHIA—Boyd, Jas. & Bro. ("Champion"), North American bldg
Clay, Jno. H., 1320 Ridge av
General Fire Extinguisher Co. (Automatic)
International Sprinkler Co., 517 Arch
National Inspection Co. ("Bradford"), 420 Sansom
Underwriters' Fire Ext'rs, 416 Walnut
PITTSBURG—**JOHNS, H. W.-MANVILLE** Co. ("Manville" Dry Powder), 951 Liberty. (See adv. index, end of book)
McKenna Bros. Brass Co.
YORK—Spangler Mfg. Co. ("Spangler")

### RHODE ISLAND.

PROVIDENCE—General Fire Extinguisher Co. (Automatic)

### WASHINGTON.

SPOKANE—Pacific Fire Extinguisher Co.

### WISCONSIN.

MILWAUKEE—Badger Chemical Mfg. Co. ("Mitchell")
**JOHNS, H. W.-MANVILLE CO.** ("Manville" Dry Powder), 225 Clybourn. (See adv. index, end of book)
**WISCONSIN IRON & WIRE** Works, 190 E Water. (See adv. index, end of book)

## 3633– Fire Extinguishers ("Badger's")

**BADGER FIRE EXTINGUISHER CO.,** 32 Portland, Boston, Mass. (See adv. index & branch offices, end of book)

## 3634–Fire Extinguishers (Chemical)

**BADGER FIRE EXTINGUISHER CO.,** 32 Portland, Boston, Mass. (See adv. index & branch offices, end of book)

## 3635–Fire Extinguishers (Steam)

Edna Brass Mfg. Co. ("Porteous" for Locomotives & Engines), Cincinnati, O.

## 3636–Fire Extinguishers & Disinfecting Apparatus

Clayton Fire Extinguisher & Disinfecting Co. ("Clayton" Gas for Ships, etc.), 11 B'way, New York

## 3637–Fire Gilt & Fire Enameling

**JACKSN, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**JACKSON, WM. H. COMPANY, 29 E** 17th (Union sq), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

## Fire Hose Reels (Swinging)

(See Reels & Racks, Fire Hose)

## 3638–Fire Hose Shut Off

Rowell, G. D. & Son ("Samson" Automatic), Appleton, Wis.

## 3639–Fire Mortar & Kaolin

**MAURER, HENRY & SON, 420 E. 23d,** New York; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)

## 3640–Fire-Place Furnishings Mfrs.

Blacklock Foundry (Andirons, etc.), South Pittsburg, Tenn.
Boston Brass Andiron Co. (Andirons, Fire Sets & Fenders), 104 Utica, Boston, Mass.
Bradley & Hubbard Mfg. Co. (Andirons, Fenders, Fire Sets, etc.), Meriden, Conn.
Bridgeford & Co. (Fancy Grates & Furnishings), Louisville, Ky.
Cahill Iron Works (Plated Grates, etc.), Chattanooga, Tenn.
Carr, Jas. W. (Grates & Fenders), Richmond, Va.
Chattanooga Implement & Mfg. Co. (Grates, All Kinds), Chattanooga, Tenn.
Colonial Fire Place Co., 12th & 46th av, Chicago, Ill.
Dawson Bros., 519 N Halsted, Chicago, Ill.
Dighton Foundry Co. (Grates & Irons, etc.), Taunton, Mass.
Elm City Brass & Rivet Co. (Brass), Plainville, Conn.
Eureka Foundry Co. (Brass), 1110 Richmond, Cincinnati, O.
Fischer Leaf Co., Louisville, Ky.
Gaumer, John L. Co. (Wrought Iron), 22d & Wood, Phila., Pa.
Graf, Frank H. (Brass, Bronze & Black Iron), 322 7th av, New York
Hardware & Woodenware Mfg. Co. (Coal Claws, Fire Irons, Fire Sets, Pokers, Fire Iron Stands), 693 B'way, New York
Howes, S. M. Co. (Fire Sets, Basket Grates, Fireplace Screens, etc.), Boston, Mass.
**JACKSON, EDWIN A. & BRO.** (Andiron), 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)
**JACKSON, WM. H. COMPANY (Fire** Screens, Fenders, Fire Sets, etc., Brass & Iron), 29 E 17th (Union sq), New York, & 163 Michigan av, Baltimore, Md. (See adv. index, end of book)
Jackson's Mantel & Grate Works, 246 Front, New York
Janusch Mfg. Co. (Brass, Bronze, etc.), 481 E 140th, New York
Judd, H. L. Co. (Fenders, Andirons, etc.), 87 Chambers, New York
Knott & Harker Co., Beaver Falls, Pa.
McKenney & Waterbury, 181 Franklin, Boston, Mass.
Manhattan Brass Co. (Brass), 334 E 28th, New York
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
New Jersey Wire Cloth Co., Trenton, N. J.
Peck, Stow & Wilcox Co. (Brass, etc.) Southington, Conn.
Rathbone Fire Place Mfg. Co. (Open Fire Places, Direct Draft & Gas Grates), Grand Rapids, Mich.
Rostand Mfg. Co. (Full Line), Milford, Conn.
Sharpless & Watts, 1520 Sansom, Phila., Pa.
Tiffany Studios, 347 Madison av, New York
Troy Nickel Works (Jno. E. Gaitley, Prop'r) ("Alaska," Nickel, Antique Bronze, etc.), Albany, N. Y.
Waterbury Brass Goods Corporation (Brass), Waterbury, Conn.
**WRIGHT WIRE CO. (Ornamental** Wire Fenders & Spark Guards), Worcester, Mass. (See adv. index & branch offices, end of book)

## 3641–Fire-Proof Constructors

(See Also Concrete Steel Construction, Reinforced)

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
Akron Fireproofing Construction Co., Akron, O.
Bruner, P. M. Granitoid Co., 904 Olive, St. Louis, Mo.
Carey Construction Co., Cleveland, O.
Cargill Mfg. Co., Buttles av, Columbus, O.
Centurian Concrete Steele Co., 1182 B'way, New York
Clinton Wire Cloth Co., Clinton, Mass.
Columbia Steel Bar Co., 103 Park av, New York
Columbian Concrete Steel Bar Co. ("Columbian" System), Pittsburg, Pa.
Drehman Paving Co. (Concrete Floors, etc.), 2629 Parrish, Phila., Pa.
Eid, L. Concrete Steel Co., Cincinnati, O.
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
Gollick & Smith, 162 E 23d, New York
Guastavino, R. Co., 949 B'way, New York
Healy-Tibbits Construction Co., San Francisco, Cal.
Kellogg Iron Works, Buffalo, N. Y.
Keystone Fireproofing Co., Engineering Dept., Perry bldg, Phila., Pa. Works: Chester, Penn.
McCartney, R. G., 622 St. Nicholas av, New York
Metropolitan Fire Proofing Co., 50 Church, New York
Monolith Steel Co. (Inc.) ("Monolith" System), Evans bldg, Washington, D. C.
National Concrete Const. Co., Louisville, Ky.
National Concrete Fire Proofing Co., Williamson bldg, Cleveland, O.
**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Newton Engineering Co. ("Kahn" System), Milwaukee, Wis.
Pennsylvania Fireproofing Co., Erie, Pa.
**ROEBLING CONSTRUCTION CO., Ful**ler bldg, B'way & 23d, New York. (See adv. index & branch offices, end of book)
Sanitary Fire Proofing & Contracting Co., 105th & East River, New York
Schratwieser Fire-Proof Construction Co., 426 3d av, Brooklyn, N. Y.
Standard Concrete Steel Co., 415 E 31st, New York
**TRUSSED CONCRETE STEEL CO.** (Kahn Systems), Detroit, Mich. (See adv. index for branch offices, end of book)
United Fire Proofing Co., 1123 B'way New York
Vulcanite Paving Co. ("Vulcanite" System), Land Title bldg, Phila., Pa.
Wight, W. N. & Co., 7 W 38th, New York

## 3642–Fire-Proof Floors & Partitions

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
American Concrete Steel Co. (Concrete Steel), Union bldg, Newark, N. J.
**AMERICAN MASON SAFETY TREAD** Co. ("Karbolith"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
**BROWN HOISTING MACHINERY CO.** ("Ferroinclave"), 4403 St. Clair, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)
Building Improvement Co. ("Buchartz," Long Span Floors, Combination Concrete & Terra Cotta), 1 Madison av, New York
**CANTON MFG. CO. (Partitions Only),** Canton, O. (See adv. index, end of book)
Centurian Concrete Steel Co., 1182 B'way, New York
Clinton Wire Cloth Co., Clinton, Mass.
**CONSOLIDATED EXPANDED METAL** Co.'s, Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Corrugated Bar Co., Nat'l Bank of Commerce bldg, St. Louis, Mo.
Detroit Fireproofing Tile Co. ("Gypsite"), Detroit, Mich.
Eastern Concrete Const. Co., Boston, Mass.

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**Expanded Metal Fireproofing Co. of Pittsburg,** 541 Wood, Pittsburg, Pa.
Fleming & Co., 253 B'way, New York
Gollick & Smith, 162 E 23d, New York
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
Hayes, Geo. Co., 71 5th av, New York
Keystone Fireproofing Co., Engineering Dept., Perry bldg, Phila., Pa. Works: Chester, Pa.
**MAURER, HENRY & SON (The** "Phoenix"), 420 E 23d, New York; Penna bldg, Phila., Pa.; Works: Maurer, N. J. (See adv. Inside Front Cover)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Metropolitan Fire-Proofing Co., 50 Church, New York
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Monolith Steel Co. (Inc.), Washington, D. C.
National Concrete Fire-Proofing Co., New England bldg, Cleveland, O.
**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices. end of book)
Pennsylvania Fireproofing Co., Erie, Pa.
**ROEBLING CONSTRUCTION CO., Fuller bldg, B'way & 23d, New York. (See** adv. index & branch offices, end of book)
Sanitary Fire Proofing & Contracting Co. ("Geraordts" Patent Fire Proof Blocks), 105th & East River, New York
Schratwieser Fire-Proof Construction Co., 426 3d av, Brooklyn, N. Y.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Southern Expanded Metal Co., Evans bldg, Washington, D. C.
Standard Concrete Steel Co., 413 E 31st, New York
Steel Fireproof Construction Co. (Cellular Steel & "Keyridge" Steel), Cincinnati, O.
**TRUSSED CONCRETE STEEL CO.** (Kahn Systems). Detroit, Mich. (See adv. index for branch offices, end of book)
Vulcanite Paving Co., Land Title bldg, Phila., Pa.
Western Expanded Metal & Fireproofing Co., San Francisco, Cal.
White Fire Proof Construction Co., 286 5th av, New York

## 3643—Fire-Proof Hollow Floors

**MAURER, HENRY & SONS ("Herculean," "Peerless"),** 420 E 23d, New York, & Penna bldg, Phila., Pa. (See adv. index, end of book)

## 3644—Fire-Proof Hollow Tile

**A. B. Fireproofing Co., Schiller bldg Chicago, Ill.**
**Akron Vitrified Clay Mfg. Co., Akron, O.**
American Clay Co., Terre Haute, Ind.
American Clay Products Co., 138 Washington Chicago, Ill.
Brook Terra Cotta, Tile & Brick Co., Brook, Ind.
Brown Brick & Tile Co., Houston, Tex.
Camp Conduit Co., Cleveland, O.
Carnegie Brick & Pottery Co., San Francisco, California
Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.
Clark, N. & Sons, 116 Natoma, San Francisco, Cal.
**Denny-Renton Clay & Coal Co., Seattle, Wash.**
Diamond Brick Co., Oak Hill, O.
**Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.**
Federal Clay Mfg. Co., 23d & B'way, New York
Gladding, McBean & Co., Crocker bldg, San Francisco, Cal. Works, Lincoln, Cal.
Gulf States Brick Co., Beaumont, Tex.
**Illinois Terra Cotta Lumber Co., The Rookery, Chicago, Ill.**
**Laclede-Christy Clay Products Co., St. Louis, Mo.**
Little Falls Fire Clay Co., Little Falls, Wash.
Los Angeles Pressed Brick Co., Los Angeles, California
**MAURER, HENRY & SON, 420 E 23d,** New York; Penna bldg, Philadelphia, Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)
**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**New Jersey Co., 11 B'way, New York**
New York Press Brick Co., Rochester, N. Y.
**Orchard Knob Clay Works Co., Ironton, O.**
Parker-Russell Mining & Mfg. Co., 722 Chestnut, St. Louis, Mo.
Patton Clay Mfg. Co., Patton, Pa.
Penna. Fireproofing Co., Erie, Pa.
Rochester Brick & Tile Mfg. Co., Rochester, N. Y.
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
Stevens, H. Sons Co., Macon, Ga.
Troy Fireproofing Co., Troy, N. Y.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit. Mich. (See adv. index & branch offices, end of book)
Vigo Clay Co., Terre Haute, Ind.
Vulcan Fire Brick Co., 218 E Lexington, Baltimore, Md.
Whiteacre Fireproofing Co., Waynesburg, O.

## 3644a—Fire-Proof Hollow Tile ("Natco")

**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3645— Fire-Proof Porches

**TAYLOR & DEAN, Penn av. & 25th, Pittsburg, Pa. (See adv. index, end of book)**

## Fire-Proof Windows

(See Window Frame & Sash, Metallic)

## Fire-Proof Wood Work

(See Fire-Proofing of Wood)

## 3645a—Fire-Proofing ("Bostwick" System)

**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)

## 3646—Fire-Proofing (Ferroinclave Steel Concrete)

**BROWN HOISTING MACHINERY CO.,** 1345 St. Clair, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)

## 3646a—Fire-Proofing ("Kahn" System)

**TRUSSED CONCRETE STEEL CO.,** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)

## 3647—Fire-Proofing ("Ferro-Lithic" Steel Plates for Concrete Roofs, Siding & Floors, "Metal Lumber," "Pronglock" Studs & Furring, "B. B." Expanded Metal Lath)

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)

## 3648—Fire-Proofing of Wood

American Wood Fire-Proofing Co., 114 Liberty, New York
Electric Fireproofing Co., 19th & East River, New York
Price Fireproofing Co., Poughkeepsie, N. Y.

## 3649—Fire-Proofing (Porous Terra Cotta)

(See also Fire-Proof Hollow Tile)

Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.
Denny-Renton Clay & Coal Co., Seattle, Wash
Gladding, McBean & Co., Crocker bldg, San Francisco, Cal. Works, Lincoln, Cal.
Illinois Terra Cotta Lumber Co., The Rookery, Chicago, Ill.
Los Angeles Pressed Brick Co., Los Angeles, Cal.
**MAURER, HENRY & SON, 420 E 23d** New York & Penna bldg, Philadelphia, Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)
**NATIONAL FIRE PROOFING CO., Fulton** bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Parker & Russell Mining & Mfg. Co., 722 Chestnut, St. Louis, Mo.
Penna. Fireproofing Co., Erie, Pa.
Whiteacre Fireproofing Co., Waynesburg, O.

## 3650—Fire-Proofing ("Roebling" System)

**ROEBLING CONSTRUCTION CO., Fuller bldg, B'way & 23d, New York. (See** adv. index & branch offices, end of book)

## 3651—Fire-Proofing Solution for Fabrics & Wood

**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## 3652— Fire Sand

Berry, Jas. E., Woodbury, N. J.
Carborundum Co. (Carborundum & Aloxite, for Lining Oil Burning Furnaces, Forges, etc.).
Garden City Sand Co. (Dealers), Chamber of Commerce bldg, Chicago, Ill.
Gautier, J. H. & Co., Jersey City, N. J.
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg, Phila., Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)
Peekskill Fire Brick Works, Peekskill, N. Y.
Presbrey Stove Lining Co., Taunton, Mass.
Raritan Ridge Clay Co., Metuchen, N. J.
Shepard, J. J., Cleveland, O.
Utica Fire Sand Co., Utica, N. Y.
Valentine, M. D. & Bro. Co., Woodbridge, N. J.


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## 3653—Fire Screens & Backs

**ESTEY WIRE WORKS CO., 59 Fulton**, New York. (See adv. index, end of book)

**JACKSON, WM. H. COMPANY, 29 E** 17th (Union sq), New York. (See adv. index, end of book)

## Fire-Sets (Brass & Iron)

(See Fire Place Furnishings, Manufacturers

## 3654—Fire Shutter Fixtures (Swinging)

**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 3655— Fireworks

California Fireworks Co. (Ltd.), San Francisco, Cal.

Consolidated Fireworks Co. of America, 9 Park pl, New York

Detwiller & Street Fireworks Co., 176 Fulton, New York

Diehl, H. P. Co., Lawrenceburg, Ind.

Due, A. L. Fireworks Co., Cincinnati, O.

Hunt, Edmund S. & Sons, Weymouth, Mass.

Lloyd Mfg. Co., 22 Park pl, New York

National Fireworks Mfg. Co., Boston, Mass.

Nordlinger-Charlton Fireworks Co., 105 Hudson, New York

Paine Mfg. Co., 12 Park pl, New York

Rochester Fireworks Co., Rochester, N. Y.

St. Louis Fireworks Co., St. Louis, Mo.

Western Fireworks Co., Denver, Col.

## 3656— Fish Line Mfrs.

Ashaway Line & Twine Mfg. Co. (Silk, Linen & Cotton), Ashaway, R. I.

Burnham, L. A. & Co., Gloucester, Mass.

Chaffer Mfg. Co. (Silk), Willimantic, Conn.

Mansfield, G. H. & Co., Canton, Mass.

Martin's, E. J. Sons ("Kingfisher," Braided Silk), Rockville, Conn.

Mears, Henry W., Essex, Mass.

Paton, Wm. (Ltd.), No. Grafton, Mass.

Pawtucket Braided Line Co., Pawtucket, R. I.

Wood, T. H., South Coventry, Conn.

## 3657—Fish Nets & Seines

American Net & Twine Co., Boston, Mass.

Bibb Mfg. Co., Macon, Ga.

Ederer, R. J. Co., 24 Michigan av, Chicago, Ill.

Eureka Fish Net Co., Griffin, Ga.

Fowler Net & Twine Co., 107 S. 2d, Phila., Pa.

## Fish Plate Springs

(See Lock Nuts & Washers)

## 3658—Fishing Tackle Mfrs.

Abbey & Imbrie, 18 Vesey, New York

Enterprise Mfg. Co., Akron, O.

Horrocks-Ibbotson Co., Utica, N. Y.

South Bend Bait Co., South Bend, Ind.

Shakespear, Wm. Jr. Co., Kalamazoo, Mich.

## 3659—Fittings (Acid Metal)

Darling Pump & Mfg. Co., Williamsport, Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 3660—Fittings (Air Brake)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Dayton Malleable Iron Co. (Lever Guides, etc.), Dayton, O.

Litchfield Foundry & Machine Co., Litchfield, Ill.

New Jersey Car Spring & Rubber Co. (Washers, etc.), Jersey City, N. J.

New York Air Brake Co. (Equipments), 165 B'way, New York., & Fisher bldg, Chicago, Ill.

Pittsburg Malleable Iron Co., Pittsburg, Pa.

Pittsburg Valve & Fittings Co., Barberton, O.

Western Railway Equipment Co., St. Louis, Mo.

**WESTINGHOUSE AIR BRAKE CO., Pittsburg, Pa.**

## 3661—Fittings (Ammonia)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Braman, Dow & Co., Boston, Mass.

Brunswick Refrigerating Co., New Brunswick, N. J.

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Creamery Package Mfg. Co., 61 W Kenzie, Chicago, Ill.

Eastwood Wire Mfg. Co., Belleville, N. J.

Flagg, Stanley G. & Co., Morris bldg, Phila., Pa.

Great Lakes Engineering Works (Semi-Steel), Detroit, Mich.

Kelly & Jones Co. (Malleable Iron), Pittsburg, Pa.

**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)

Niebling, F. W. Co. (Ltd.), Norwood, Cincinnati, O.

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

Tight Joint Co. ("Folly's" Patent), 306 E 47th, New York

Triumph Ice Machine Co. (Steel), Cincinnati, O.

**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)

Wegner Machine Co., Buffalo, N. Y.

Wolf, Fred W. Co., 827 Rees, Chicago, Ill.

York Ice Machine Co. York, Pa.

## 3662—Fittings (Awning Frame)

Pancoast, Henry B. & Co., 243 S. 3d, Phila., Pa.

## 3663—Fittings (Bakers' Oven)

Robson, Chas. & Co., 8th & Washington av, Philadelphia, Pa.

## 3664—Fittings (Brass Pipe)

Barrett, James Mfg. Co., Boston, Mass.

Belfield, H. & Co., 435 N. Broad, Phila., Pa.

Belknap Mfg. Co., Bridgeport, Conn.

Best Mfg. Co., Pittsburg, Pa.

Bridgman Bros. Co. (Extra Heavy Screwed & Flanged), 1422 Washington av, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.

Central Brass Works, Cincinnati, O.

Chambers & Co., Newark, N. J.

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co. (Elbows, Tees & Crosses, etc.), Bridgeport, Conn.

Dalton-Ingersoll Mfg. Co., Boston, Mass.

Darling Pump & Mfg Co., Williamsport, Pa.

Detroit Lubricator Co., Detroit, Mich.

Detroit Sanitary Supply Co., Detroit, Mich.

Detroit Valve & Fitting Co., Detroit, Mich.

Eastwood Wire Mfg. Co., Belleville, N. J.

Edwardsville Brass Co., Edwardsville, Ill.

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Fewless-Leen Brass & Iron Co., Cincinnati, O.

General Fire Extinguisher Co., Providence, R. I.

Hamlin & Emery Brass Co., Boston, Mass.

Harris, Arthur & Co., 212 N Curtis, Chicago, Ill.

Haydenville Co., Haydenville, Mass.

Hoffman & Billings Mfg. Co., Milwaukee, Wis.

Humphreys Mfg. Co., Mansfield, O.

Ideal Mfg. Co., Detroit, Mich.

**HUNGERFORD, U. T. BRASS & COPper Co.**, 497 Pearl, New York

Illinois Malleable Iron Co., 1801 Deversey bldg, Chicago, Ill.

Imperial Brass Mfg. Co., Chicago, Ill.

Jarecki Mfg. Co., Erie, Pa.

Jenkins Mfg. Co., 20 Vesey, New York

Kelly & Jones Co., Pittsburg, Pa.

Kinsey & Mahler Co., Peoria, Ill.

Leslie Co. (Inc.) (High Pressure Steam), Lyndhurst, N. J.

McDonald, A. Y. Mfg. Co., Dubuque, Ia.

McNab & Harlin Mfg. Co., 56 John, New York.

Merrie, Hugh, Cincinnati, O.

Milwaukee Brass Mfg. Co., Milwaukee, Wis.

Mott, J. L. Iron Works, 5th ave. & 17th st.,

Mueller, H. Mfg. Co., Decatur, Ill. New York

Mullaney's, Jas. Sons, 141 E. 25th, New York.

**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Pittsburg Valve & Fittings Co., Barberton, O.

Powell, Wm., Co., Cincinnati, O.

Powhatan Brass & Iron Works, Charlestown, W. Va.

Queen City Brass & Iron Works, Cincinnati, O.

Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.

Register Co., Westminster, Md.

Richardson, Edro Brass Co., Baltimore, Md.

Ruemmeti-Dawley Mfg. Co.

Rundle-Spence Mfg. Co., Milwaukee, Wis.

**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)

Sherman, H. B. Mfg. Co., Battle Creek, Mich.

Speakman Supply & Pipe Co., Wilmington, Del.

Standard Sanitary Mfg. Co., Pittsburg, Pa.

Stebbins Mfg. Co., Springfield, Mass.

Thomas Brass & Iron Co., Waukegan, Ill.

Walworth Mfg. Co., 128 Federal, Boston, Mass.

Wolverine Brass Works, Grand Rapids, Mich.

## 3665—Fittings (Brass Pipe Railing)

Belfield, H. & Co., 435 N. Broad, Phila., Pa

Crane Valve Co., Bridgeport, Conn.

Crane Co., 1214 So Canal. (See adv. index & branch offices, end of book)

Detroit Arch'l Iron Works Co., Detroit, Mich.

Devlin, Thomas Mfg. Co., Phila., Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

Jarecki Mfg. Co., Erie, Pa.

Jenkins Mfg. Co., Bloomfield, N. J.

Pittsburg Brass Mfg. Co., Pittsburg, Pa.

## 3666— Fittings (Bronze)

Eastwood Wire Mfg. Co. (Also Brass), Belleville, N. J.

Kaltenthaler, H. J., 230 Cherry, Phila., Pa.

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Portland Co., Portland, Me.

**Woods Valve & Machine Co., Steubenville, O.**

## 3667—Fittings (Car Heater)

**CHICAGO CAR HEATING CO., Railway** Exchange bldg., Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

National Tube Co. (Cast, Malleable Brass), Pittsburg, Pa.

## Fittings (Cast Iron Pipe)

(Fittings, Pipe)

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## 3668—Fittings (Cast Iron, for Gas & Water Mains)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Central Foundry Co., 37 Wall, New York
Darling Pump & Mfg. Co., Williamsport, Pa.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
**LAWRENCE IRON & STEEL FOUN**dry Co., 400 32d, Pittsburg, Pa. (See adv. index, end of book)
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
**Woods Valve & Machine Co., Steubenville, O.**

## 3669—Fittings (Cast Steel)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 3670—Fittings (Conduit)

Appleton Electric Co. ("Appleton's" Sherardized No-Thread Fittings & Rectangular Unilets), 212 N Jefferson, Chicago, Ill.
Fairmount Electric & Mfg. Co. ("Bendhicks," Weatherproof), 2203 Pearl, Phila., Pa.

## 3671—Fittings (Cross Over)

Fee & Mason, 81 Beekman, New York.
Flagg, Stanley G. & Co. (Malleable Iron), 19th & Pa. av, Phila., Pa.
Grabler Mfg. Co., Cleveland, O.
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.
Kelly & Jones Co., Pittsburg, Pa.
National Tube Co. (Cast, Malleable & Brass), Pittsburg, Pa.

## 3672—Fittings (Drainage)

Central Brass Works Co. ("Standard"), Kansas City, Mo.
Central Foundry Co. (Cast Iron), 37 Wall, New York
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Glenn Mfg. Co., St. Charles, Ill.
Kelly & Jones Co. (Cast Iron, etc.), Pittsburg, Pa.
McNab & Harlin Mfg. Co. (Brass & Iron, Black & Galvanized), 56 John, New York, & Patterson, N. J.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
National Tube Co. (Cast & Malleable Iron), Pittsburg, Pa.
Pittsburg Valve & Fittings Co., Barberton, O.
Prier Brass Mfg. Co. ("Sieben" Combination), Kansas City, Kan.

## Fittings (Electric Porcelain)

(See Porcelain Specialties, Electric & Mechanical)

## 3673—Fittings (Electrical)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Electro-Dynamic Co. (Water Tight), Bayonne, N. J.
Martin El. Co. (Watertight Marine for Electrical Work), 90 Verona, Brooklyn, N. Y.
Union Iron Works Co., San Francisco, Cal.
**WORCESTER PRESSED STEEL CO.** (Stamped), Worcester, Mass. See adv. index, end of book)

## 3674— Fittings (Ell)

Edwardsville Brass Co., Edwardsville, Ill.
Lavigne Mfg. Co., Detroit, Mich.
**LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**

## 3675—Fittings (Flanged)

American District Steam Co., North Tonawanda, N. Y.
**AMERICAN SPIRAL PIPE WORKS** (Forged Steel Pipe Flanges), W. 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. (Iron, Steel & Semi-Steel), Birdsboro, Pa.
Crane Co. (Est. 1855) (High, Medium or Low Pressure), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crooks-Kries & Co. (Cast Iron), Baltimore, Md.
Dame & Townsend Co. (Standard Extra Heavy), Cliff & Fulton, New York
Eastwood Wire Mfg. Co. (Bronze & Iron Elbow, Tee, Cross, Nipple & Union, etc.), Belleville, N. J.
General Fire Extinguisher Co. (Cast Iron), Providence, R. I.
Kaltenthaler, H. J. (Cast Iron, High & Low Pressure), 230 Cherry, Phila., Pa.
Kellog, M. W. Co., 50 Church, New York
Kelly & Jones Co. (Standard & Extra Heavy, Semi-Steel, Brass & Cast Malleable Iron), Pittsburg, Pa.
McNab & Harlin Mfg. Co. (Standard & Extra Heavy), 56 John, New York
Millar, Chas. & Son Co., Utica, N. Y.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
National Tube Co. (Cast, Malleable Brass, also Screwed), Pittsburg, Pa.
National Valve & Mfg. Co., Pittsburg, Pa.
New Bedford Boiler & Machine Co., New Bedford, Mass.
Newbury, J. H. (Cast), Goshen, N. Y.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Woods Valve & Machine Co., Steubenville, O.
**YAGLE FOUNDRY & MACHINE CO.** (Ltd.) (Cast Iron for Gas & Water), 32d & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

## 3676—Fittings (Gas Fixture)

Cleveland Gas & Electric Fixture Co., 940 Prospect av, S E, Cleveland, O.
Detroit Brass Works, Detroit, Mich.
Flagg, Stanley G. & Co., Morris bldg, Phila., Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Horn & Brannen Mfg. Co., 427 N Broad, Philadelphia, Pa.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
Shapiro & Aronson, 20 Warren, New York
Utica Fixture Co., Utica, N. Y.
Vosburgh, W. C. Mfg. Co., 93 Underhill av, Brooklyn, N. Y.
Williamson, R. Co., 609 W Washington, Chicago, Ill.

## 3677—Fittings (Gas Line)

Hays Mfg. Co., Erie, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Woods Valve & Machine Co., Steubenville, O.

## 3678—Fittings (Green House)

Central Foundry Co., 37 Wall, New York
Coldwell-Wilcox Co. (Cast Iron), Newburgh, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Glenn Mfg. Co., St. Charles, Ill.

## Fittings (High Pressure)

(See Fittings, Hydraulic)

## 3679—Fittings (Hydraulic)

**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Best Mfg. Co., Pittsburg, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. (Cast Steel), Birdsboro, Pa.
Eastwood Wire Mfg. Co. (Bronze & Iron, Elbow, Tree, Cross, Nipple & Union, etc.), Belleville, N. J.
**ELMES, CHAS. F. ENGINEERING** Works, Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
French Oil Mill Machinery Co., Piqua, O.
Kelly & Jones Co. (Semi-Steel Flanged), Pittsburg, Pa.
McNab & Harlin Mfg. Co., 56 John, New York
Mesta Machine Co., Pittsburg, Pa.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**OIL WELL SUPPLY CO. (Cast Iron),** 215 Water, Pittsburg, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)
Tight Joint Co. ("Folly's" Patent), 306 E 47th, New York
**WATSON-STILLMAN CO., 38 Church,** New York (See adv. index, end of book)
Woods Valve & Machine Co., Steubenville, O.

## 3680—Fittings (Iron Railing)

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index, and branch offices, end of book)
Detroit Arch'l. Iron Work Co., Detroit, Mich.
Devlin, Thos., Mfg. Co. (Adjustable, Malleable Iron), Lehigh ave. & 3d, Phila., Pa.
Illinois Malleable Iron Co., 1801 Deversey, Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co. (Malleable Iron, etc.), Pittsburg, Pa.
McNab & Harlan Mfg. Co., 56 John, New York
National Tube Co. (Cast & Malleable Iron), Pittsburg, Pa.
Pancoast, Henry B. & Co. (Iron Pipe, Malleable & Cast Iron & Brass), 243 S 2d, Phila., Pa.
Pittsburg Valve & Fittings Co., Barberton, O.

## 3681—Fittings (Lead Lined Pipe)

Lead Lined Iron Pipe Co. (Brass & Iron), Wakefield, Mass.

## 3682— Fittings (Mast)

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

## 3683— Fittings (Pipe)

(See also Cast Iron Soil Pipe & Fittings; also Fittings, Various Kinds; also Unions)

**ABENDROTH & ROOT MFG. CO.** (Cast Iron Flanged), Newburgh, N. Y. (See adv. index & branch offices, end of book)
American District Steam Co., Lockport, N. Y.
American Foundry & Construction Co., Pittsburg, Pa.
American Radiator Co. ("O. S." Distributors for Steam & Water), General Office, 282 Michigan av, Chicago, Ill.
**AMERICAN SPIRAL PIPE WORKS** (Large Cast Iron), W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Belfield, H. & Co. (Malleable & Cast Iron), 435 N. Broad, Philadelphia, Pa.
Best Mfg. Co., Pittsburg, Pa.
Birmingham Valve & Fittings Co. (Cast Iron), Birmingham, Ala.
Builders' Iron Foundry (Cast Iron), Providence, R. I.
Campbell Mfg. Co. (Cast Iron), Gadsden, Ala.
Carroll Iron Works (Malleable Iron), 779 Carroll av., Chicago, Ill.
Central Foundry Co. (Cast Iron), 37 Wall, New York
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Coldwell-Wilcox Co. ("Wilcox"), Newburgh, N. Y.
Columbus Brass Co. ("Abbott") Columbus, Ohio.
Crane Co. (Est. 1855). (Malleable & Cast Iron, Screwed or Flanged), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**Crane Valve Co. (Malleable & Cast Iron Pipe), Bridgeport, Conn.**

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Dame & Townsend Co. (Cast & Malleable Iron), Cliff & Fulton, New York
Darling Pump & Mfg. Co. (Cast Iron), Williamsport, Pa.
Detroit Valve & Fitting Co. (Brass, Cast & Malleable, Detroit, Mich.
Devlin, Thos. Mfg. Co. (Malleable Iron), 3d & Lehigh av, Phila., Pa.
Eastwood Wire Mfg. Co. (Cast Iron), Belleville, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flagg, Stanley G. & Co. ("Keystone" Malleable Iron), Morris bldg, Phila., Pa.
Ford & Kendig Co. (Malleable & Cast Iron), 432 Callowhill, Philadelphia, Pa.
Fort Pitt Malleable & Gray Iron Co. (Malleable & Cast Iron), Pittsburg, Pa.
Franklin Park Foundry Co., Franklin Park, Ill.
Gille Engine & Machine Co. (Cast Iron), Tonawanda, N. Y.
Glamorgan Pipe & Foundry Co. (Cast Iron), Lynchburg, Va.
Glen Mfg. Co. (Grey Iron), St. Charles, Ill.
Grabler Mfg. Co. (Malleable Iron), Cleveland, O.
Hancock Mfg. Co., Charlotte, Mich.
Hoffman, B. Mfg. Co. (Cast Iron), Milwaukee, Wis.
Howe Mfg. Co. ("Crescent") Louisville, Ky.
Illinois Malleable Iron Co. ("Eureka," "Inuco," Malleable & Cast Iron), 1801 Diversey boulevard, Chicago, Ill.
Jarecki Mfg. Co. (Malleable & Cast Iron), Erie, Pa.
Kelly & Jones Co. (Malleable & Cast Iron), Pittsburg, Pa.
Kroeschell Bros. Co. (Cast Iron), 440 W Erie, Chicago, Ill.
Kuhns Bros., Dayton, O.
Litchfield Foundry & Machine Co. (Cast Iron), Litchfield, Ill.
Lumsden C. Van Stone Co. ("Van Stone") Boston, Mass.
**LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
McNab & Harlin Mfg. Co. (Cast Iron), 56 John, New York
Malleable Iron Fittings Co. (Malleable Iron), Branford, Conn.
Morse Iron Works (Cast & Malleable Iron), Erie, Pa.
Mott, J. L. Iron Works, 118 5th av., New York
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
National Tube Co. (Cast, Malleable, Brass), Pittsburg, Pa.
Newbury, J. G., Coxsackie, N. Y.
Newbury, Jay H. (Cast Iron), Goshen, N. Y.
**OIL WELL SUPPLY CO. (Malleable & Cast Iron), 215 Water, Pittsburg, Pa.** (See adv. index, end of book)
Pancoast, Henry B. & Co. (Malleable Iron), 245 S 3d, Phila., Pa.
**PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa.** (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)
**SIMMONS, JOHN CO. (Cast Iron), 106 Centre, New York.** (See adv. index, end of book)
**South Park Foundry & Machine Co. (Cast Iron), St. Paul, Minn.**
Tamaqua Mfg. Co. (Malleable Iron), Tamaqua, Pa.
**Tight Joint Co. ("Folly's" Never Leak Tight Joint), 306 E 47th, New York**
Walworth Mfg. Co. (Malleable & Cast Iron), 132 Federal, Boston, Mass.
Woods Valve & Machine Co., Steubenville, O.

## Fittings (Railing)

(See Fittings, Brass Pipe Railing; also Fittings, Iron Railing)

## 3684—Fittings (Railway)

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.
Flagg, Stanley G. & Co. (Malleable Iron), 19th & Penna av., Phila., Pa.
National Tube Co. (Cast, Malleable, Brass), Pittsburg, Pa.

## 3685—Fittings (Semi-Steel)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv., index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)

## Fittings (Soil Pipe)

(See Cast Iron Soil Pipe & Fittings Manufacturers)

## 3686—Fittings (Tight Joint)

Tight Joint Co. ("Folly's" for Steam, Hydraulic, Ammonia, Compressed Air, etc.), 306 E 47th, New York

## 3686a—Fittings (Waste, Water Closet)

**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)

## 3687— Fittings (Y)

**BLAKE SPECIALTY CO. (Soil Pipe),** 2412 3d av, Rock Island, Ill. (See adv. index, end of book)
**LUNKENHEIMER CO., Beekman & Waverly, Cincinnati, O. (See adv., index & branch offices, end of book)**
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)
Woods Valve & Machine Co., Steubenville, O.

## 3688—Fixtures (Bank, Office & Store)

(Cabinet Wood-Work)

Alexandria Mfg. Co., Alexandria, Minn.
American Sash & Door Co., Kansas City, Mo.
Andrews, A. H. Co., Chicago, Ill.
Best, T. A. Mfg. Co., Peoria, Ill.
Bush, Jas. S., 239 B'way, New York
Carr & Adams Co., Des Moines, Ia.
Carter, S. C. & S. Co., Keokuk, Ia.
Cleveland Store Fixture Co., Cleveland, O.
Cobb, Geo. W., Jr., 47 Liberty, New York
Cole Mfg. Co., Memphis, Tenn.
Columbia Lumber & Mfg. Co., Columbia, S. C.
Combination Fountain Co., Decatur, Ill.
Decatur Fountain Co., Decatur, Ill.
Derby Desk Co., Boston, Mass.
Des Moines Cabinet Co., Des Moines, Ia.
De Wolf Furniture, Garnett, Kans.
Doten-Dunton Desk Co., Boston, Mass.
Ehlrich, H. & Sons Mfg. Co., St. Joseph, Mo.
Enterprise Mfg. Co., Tiffin, O.
Fielder & Allen Mfg. Co., Atlanta, Ga.
Fridman Seating Co., New Richmond, O.
Georgia Show Case Co., Columbus, Ga.
Globe-Wernicke Co. (Wood & Steel Office), Cincinnati, O.
Himmel, M. L. & Son, 107 N Frederick, Baltimore, Md.
Hofman, John Co., Rochester, N. Y.
Johannesen Mfg. Co., Erie, Pa.
Johnson, Albert & Co., Boston, Mass.
Kansas City Furniture & Bedding Manufactory, Kansas City, Mo.
Loetscher-Jaeger Mfg. Co., Des Moines, Ia.
McLean, W. B. Mfg. Co., Pittsburg, Pa.
Maclean, J. S., Columbus, O.
Mansfield, Robert & Son, Louisville, Ky.
Marysville Cabinet Co., Marysville, O.
Merle & Heaney Mfg. Co., 188 Washington, Chicago, Ill.
Moline Furniture Works, Moline, Ill.
Moore, Geo. & Sons, Nashville, Tenn.
Moore Mfg. Co., Springfield, Mo.
Morgan Lumber & Mfg. Co. (Inc.), Charleston, W. Va.
Muskegon Cabinet Co., Muskegon, Mich.
National Show Case Co., Columbus, Ga.
Northwestern Furniture Co., Milwaukee, Wis.
Ohmer's, M. Sons Co., Dayton, O.
Phoenix Furniture Co., Eau Claire, Wis.
Rochester Show Case Works, Rochester, N. Y.
Segale Mfg. Co., 68 E Spring, Columbus, O.
Schwarzwaelder, W. O., Chichester, N. Y.
Shaw Furniture Co., Cambridge, Mass.
Shoemaker, Jos. L. & Co., 926 Arch, Phila., Pa.
Sierer, H., Chambersburg, Pa.
Sjostron, John E. Co., Phila., Pa.
Southern Seating & Cabinet Co., Jackson, Tenn.
Storandt, J. W. Mfg. Co., Rochester, N. Y.
Sun Mfg. Co., Columbus, O.
Tiffin Mfg. Co., Tiffin, O.
Toledo Desk & Fixture Co., Toledo, O.
Walrus Mfg. Co., Decatur, Ill.
Weary & Alfred, 1907 Michigan av, Chicago, Ill.
Whitcomb Cabinet Co., Kansas City, Mo.
Williams & Hunting Co., Cedar Rapids, Ia.
Winter, M. Lumber Co., Sheboygan, Wis.
Yawman & Erbe Mfg. Co., Rochester, N. Y.

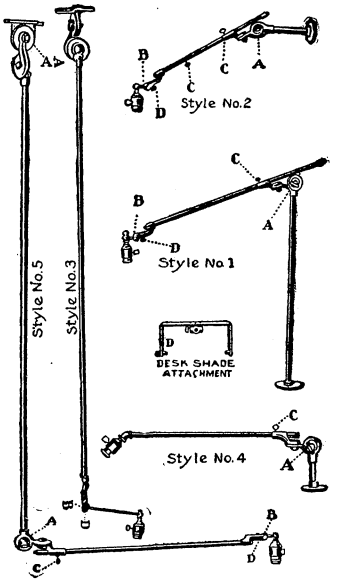
## 3689—Fixtures (Electric Adjustable Wall & Ceiling)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**MORSE, FRANK W. ("Morse"), 516** Atlantic av, Boston, Mass. (See adv. index, end of book)


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## 3689a—Fixtures (Hay Rack)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 3690—Fixtures (Outlet, Coal Chute)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3690a—Fixtures (Store Ladder)

**RICHARDS - WILCOX MFG. CO.** ("Richards" Ball Bearing), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

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## 3691– Flag Mfrs.

American Flag Mfg. Co., Easton, Pa.
Annin & Co., 99 Fulton, New York
Channon, H. Co., 32 Market, Chicago, Ill.
De Grauw, Aymar & Co., 34 South, New York
National Flag Co., Cincinnati, O.
United States Flag Co., Cincinnati, O.

## Flag Poles (Iron)

(See Poles, Iron & Steel Flag)

## 3692–Flag Poles (Tubular)

National Tube Co., Pittsburg, Pa.

## 3693–Flags (Railway Signal, Etc.)

American Flag Mfg. Co., Easton, Pa.
**CARPENTER, GEO. B. & CO. (All Kinds & Descriptions), 202 S Water, Chicago,** Ill. (See adv. index, end of book)
Handlan-Buck Mfg. Co. ("Prahm" & "Lanius" Metallic, also Bunting), St. Louis, Mo.
Patton, R. J. & Co., Cincinnati, O.
Versailles Railway Signal Co., Pittsburg, Pa.; Factory: McKeesport, Pa.

## 3694–Flame Plates & Cheek Blocks for Boilers

**MAURER, HENRY & SON, 420 E.** 23d, New York, & Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. index, end of book)

## 3695– Flangers (Snow)

Ohio Brass Co., Mansfield, O.
Railway Appliances Co. ("Q. & C. Priest), Old Colony bldg, Chicago, Ill.

## 3696– Flanges (Bibb)

American Pin Co., Waterbury, Conn.
Hays Mfg. Co., Erie, Pa.
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)

## 3697–Flanges (Boiler, Forged Steel)

**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3698– Flanges (Brass)

National Tube Co., Pittsburg, Pa.
**VOELKNER & HARRY MFG. CO.,** 282 Woodbridge, E, Detroit, Mich. (See adv. index, end of book)

## 3699–Flanges (Cast & Malleable Iron)

American Foundry & Mch. Co., Marietta, Ga.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
General Fire Extinguisher Co. (Cast Iron Only), Providence, R. I.
Hays Mfg. Co., Erie, Pa.
Kaltenthaler, H. J. (Grey & Gun Iron, Cast Steel & Bronze), 230 Cherry, Phila., Pa.
**Kelly & Jones Co., Pittsburg, Pa.**
National Tube Co. (Also Extra Heavy Brass), Pittsburg, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
**Standard Cast Iron Pipe & Foundry Co.** (Grey Iron), Bristol, Pa.

## 3700–Flanges (Companion)

**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.
National Tube Co., Pittsburg, Pa.

## 3701–Flanges (Floor & Ceiling)

Edwardsville Brass Co. (Closet Floor), Edwardsville, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Glenn Mfg. Co. (Tapped), St. Charles, Ill.
Hays Mfg. Co., Erie, Pa.
Lipp, Louis Co. (Brass), Cincinnati, O.
Newbury, J. H., Goshen, N. Y.
Pittsburg Brass Mfg. Co. (Brass Closet Floor), Penn av & 32d, Pittsburg, Pa.
**VOELKNER & HARRY MFG. CO.,** 282 Woodbridge, E, Detroit, Mich. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO.** (Solid & Split), Worcester, Mass. (See adv. index & branch offices, end of book)

## 3702– Flanges (Hub)

**AMERICAN SPIRAL PIPE WORKS** (Heavy Forged & Rolled Steel), W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 3703– Flanges (Pipe)

(See also Fittings, Flanged, also Fittings, Pipe)
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Best Mfg. Co., Pittsburg, Pa.
Dart, E. M. Mfg. Co., Providence, R. I.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Imperial Iron Works (Inc.) (High & Low Pressure), Duluth, Minn.
Kelly & Jones Co., Pittsburg, Pa.
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
National Valve & Mfg. (Cast Iron), Pittsburg, Pa.
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)

## 3704–Flanges (Pipe, Forged Steel)

**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. adv. index & branch offices, end of book)
Inter-Ocean Steel Co., 9 Jackson blvd, Chicago, Ill
Midvale Steel Co. (Peened, Screwed, Plain, etc.), Nicetown, Phila., Pa.
Millersburg Fifth Wheel Co., Millersburg, Pa.
O'Leary, Arthur J. & Son Co., 652 W Lake, Chicago, Ill.
Railway Steel Spring Co. (For Weldless Forged & Rolled Steel), 30 Church, New York
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)

## 3705–Flanges (Pipe, Pressed Steel)

Central Iron & Steel Co., Harrisburg, Pa.
Doering, C. & Son, 1373 W Lake, Chicago, Ill.
Glasgow Iron Co., Pottstown, Pa.
Heggie-Woodruff Pressed Steel Co., Joliet, Ill.
Lukens Iron & Steel Co., Coatesville, Pa.
**PRESSED STEEL TANK CO., Mil**waukee, Wis. (See adv. index, end of book)
Worth Bros. Co., Coatesville, Pa.

## 3706–Flanges (Pipe, Rolled Steel)

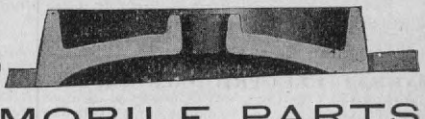
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Midvale Steel Co., Nicetown, Phila., Pa.
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)

## 3707– Flanges (Roof)

Acme Mfg. Co. ("Acme" Adjustable), Bangor, Me.
Bourneuf, Louis Corp., Lynn, Mass.
Davis-Watson Mfg. Co. ("Watson"), Nashua, N. H.
Go-Ro Mfg. Co., New Orleans, La.
**Hessler Co. ("McGuire," "Star" Adjustable),** Syracuse, N. Y.
Manchester, J. B. Co., Providence, R. I.
Prier Brass Mfg. Co. ("S. M. S."), Kansas City, Mo.
Success Mfg. Co. ("Bolger"), Gloucester, Mass.

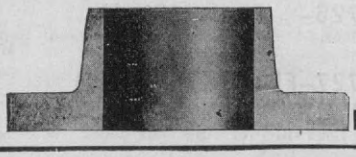



**Steel Drop Forgings**

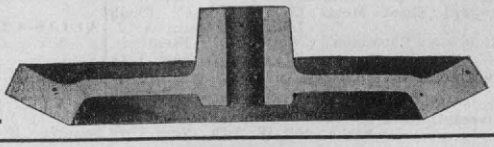


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## 3707a—Flanges (Saw Shingle)

**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 3708—Flanges (Soft Weldless Steel)

**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. adv. index & branch offices, end of book)

## 3709—Flanges (Spun Brass)

General Fire Extinguisher Co., Providence, R. I.

## 3710— Flanges (Welded)

Ball & Wood Co. ("Ballwood," up to 5000 lbs. Pressure), Elizabeth, N. J.
Kellogg, M. W. Co., 50 Church, New York
**SHAW, BENJ. F. CO., Wilmington, Del.** (See adv. index, end of book)

## 3711— Flanges (Wheel)

National Malleable Castings Co. (For Buggies, Wagons, etc.), Cleveland, O.

## 3711a—Flanging (Hydraulic)

**KITTOE BOILER & TANK CO. (Inc.),** Canton, O. (See adv. index, end of book)

## 3712—Flashers (Electric Sign)

A. & W. Electric Sign Co., Cleveland, O.
Advertising Mirrorgraph Co. ("Thermo-Blink"), Brooklyn, N. Y.
American Electric Sign Co., Boston, Mass.
Bissell, F. Co., Toledo, O.
Campbell Electric Co., Lynn, Mass.
Electric Motor & Equipment Co., Newark, N. J.
Emerson Electric Mfg. Co., St. Louis, Mo.
Glaze-Morris Mfg. Co. ("Jem"), Columbus, O.
Haller Sign Works, 319 S Clinton Chicago, Ill.
Houillion, Edw., Cincinnati, O.
McGill Mfg. Co. ("Crescent"), Valparaiso, Ind.
Palmer Electrical Co., Boston, Mass.
Phelps Mfg. Co. ("Skedoodle"), Detroit, Mich.
Reynolds-Dull Flasher Co. ("Dull's"), 152 5th av, Chicago, Ill.
Reynolds Electric Flasher Mfg. Co. ("New Reco"), 631 Jackson blvd, Chicago, Ill.
Ryan Construction Co., Indianapolis, Ind.
Universal Mfg. Co., 206 Illinois, Chicago, Ill.

## 3713— Flashings (Roof)

Acme Mfg. Co. ("Acme"), Bangor, Me.
**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
Davis-Watson Mfg. Co. ("Watson"), Nashua, N. H.

## 3714—Flashlights (Electric Lamp & Lantern)

American Endoscopic Co. ("Little Rhody"), Providence, R. I.
American Ever Ready Co. ("Ever Ready"), 308 Hudson, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Empire State Dry Battery Co., 55 Dey, New York
Franco-American Elec. Novelty Co., 111 Chambers, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Jaeger Miniature Lamp Mfg. Co. ("Tantalum"). 134 Bible House, New York
Manufacturers & Inventors Elec Co. ("Cats Eye"), 84 Nassau, New York
Meyrowitz, E. B. ("Firefly"), 104 E 23d, New York
Mystic Elec. Gas Lighter Co., 119 Bible House, New York
Portable Elec. Safety Light Co. ("Hubbell"), Newark, N. J.
Roche, W. ("New Standard"), Jersey City, N. J.
Standard Sheet Metal Co. ("Rayflex" Flash Light), Passaic, N. J.
Stanley & Patterson ("Matchless" Fielding), 23 Murray, New York
Strobel & Wilkens Co. ("Yankee"), 591 B'way, New York
Tardie, E. J., 240 6th av, New York
Universal Novelty Co. ("Eclipse," "Milwaukee"), 163 W 29th, New York
Vesta Accummulator Co., 1336 Michigan, Chicago, Ill
Voltamp Electric Mfg. Co., Baltimore, Md.
Wilhelm, Henry Battery Co., 70 Frost, Brooklyn, N. Y.
Wolff, Albert & Co., 45 Vesey, New York

## 3715— Flasks (Molders')

Adams Co. ("Adams" Cherry Snap), Dubuque, Iowa
**ARCADE MFG. CO. ("Arcade" Snap),** Freeport, Ill. (See adv. index, end of book)
Baldwin, Tuttle & Bolton ("B. T. & B." All Steel Snap), Grand Rapids, Mich.
Barnett, Oscar Foundry Co. ("Barnett" Brass Molders & "New Diamond" Snap), Newark, N. J.
Berkshire Mfg. Co. (Aluminum Snap), Cleveland, O.
Brass Founders' Supply Co. (For Brass Fdrs., Ribbed, etc.), Newark, N. J.
Columbiana Boiler Co., Columbiana, O.
Diamond Clamp & Flask Co. ("Diamond" Snap), Richmond, Ind.
Jurack, Chas., Milwaukee, Wis.
Linn Mfg. Co. ("Linn," Steel Coated Taper Flasks & Slip Jackets), Springfield, O.
Macphail Flask & Machine Co. ("Macphail" Steel), Fort Madison, Iowa
Middleditch, Benj., Detroit, Mich.
**NORTHERN ENGINEERING WORKS,** Detroit, Mich. (See adv. index, end of book)
Obermayer, S. Co., Cincinnati, O.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Perkins, B. F. & Son, Holyoke, Mass.
Racine Engine & Machine Co. ("Racine" Snap), Racine, Wis
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Shamafelt Mfg. Co., Canton, O.
**SMITH, J. D. FOUNDRY SUPPLY CO.** (Snap), 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
Smith & Caffrey Co. ("New Eureka" Snap), Syracuse, N. Y.
Stearns, E. C. & Co. ("Stearns" Snap), Syracuse, N. Y.
Sterling Wheelbarrow Co. (Sheet Steel), West Allis, Wis.
Turner Machine Co., 3632 N Lawrence, Phila., Pa.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3715a— Flasks (Powder)

Waterbury Brass Co., Waterbury, Conn.

## 3716— Flax

Ashland Flax Mill Co., Ashland, O.
Blehdon, K., Buffalo, N. Y.
**Livingston, Jas. Flax Co. (Hackled),** Yale, Mich.
Minnesota Fibre Co. (Spinning), Heron Lake, Minn.
Overman & Schrader Cordage Co. (Hemp), Covington, Ky.
Union Fibre Co., Winona, Minn.
Wallace, J. I., Jackson, Minn.

## 3717— Flint

Columbia Flint Co., Marietta, Pa.
Dunkel, S. P. & Son, Baltimore, Md.
Eureka Flint & Spar Co. (Miners), Trenton, N. J.
Guilford & Waltersville Granite Co. (Rough & Ground), 3 E Lexington, Baltimore, Md.
Hartford County Flint Co., Conowingo, Md.
Illinois Mineral Milling Co., East St. Louis, Ill.
Pennsylvania Pulverizing Co. (Ground Flint & Quartz), Lewiston, Pa.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Trenton Flint & Spar Co., Trenton, N. J.
York Chemical Works (Also Crushed), York, Pa.

## 3718—Flint Pebbles & Flint Linings

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Buebendorf Bros., Produce Exch., New York
Delarue, Robert & Co., 66 Broad, New York
Eureka Flint & Spar Co., Trenton, N. J.
Higman, John W. Co., 112 Wall, New York
Smidth, F. L. & Co., 50 Church, New York
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Voigt, B. (French & Danish), 132 Front, New York

## 3719—Floats (Carbureter)

Goodwin & Kintz Co. (Brass or Copper), Winsted, Conn.
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
McCord & Co., 150 Michigan av, Chicago, Ill.
Turner Brass Works, Sycamore, Ill.

## 3720—Floats (Car & Grain)

American Car & Foundry Co. (Steel or Wooden), 915 Olive, St. Louis, Mo., & 165 Broadway, New York

## 3721—Floats (Coopers' Hoop)

White, L. & I. J. Co., Buffalo, N. Y.

## 3722— Floats (Copper)

American Copper & Brass Wks., Cincinnati, O.
American Pin Co. ("Wonder"), Waterbury, Conn.
Ayling & Reichert Co. ("No-Sol" Seamless Copper), Toledo, O.
Bay State Metal Works, Cambridge, Mass.
Blessing, C. A., 516 Montgomery av, Phila., Pa.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Boston Brass Co., Boston, Mass.
Briggs, William ("Dirigo" Solderless), 100 Lexington av, Brooklyn, N. Y.
Carr, J. H. & Co., 7 Sherman, Chsn., Boston, Mass.
Century Sanitary Mfg. Co., Syracuse, N. Y.
Cleveland Faucet Co., Cleveland, O.
Diamond Mfg. Co., Detroit, Mich.
Douglas, Jno. Co., Cincinnati, O.
Emery, Wm. S., 74 Cliff, New York
Famous Mfg. Co., Grand Rapids, Mich.
Haydenville Co., Haydenville, Mass.
**Hercules Float Works (Seamless), Springfield, Mass.**
**Ireland & Matthews Mfg. Co. (For Tanks), Detroit, Mich.**
Miller, Hubbard Mfg. Co., Sturgis, Mich.
Naugatuck Mfg. Co. (Seamless), Naugatuck, Conn.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Page, Wm. E., E 166th & Walton av, New York
Pfau Mfg. Co., Cincinnati, O.
Plumbers' Sundries Co. ("Banner"), 442 Orleans, Chicago, Ill.
Ronalds & Johnson Co., 54 Cliff, New York
Reliance Gauge Column Co. (Solderless), Cleveland, O.
Smith & Pomeroy, Kalamazoo, Mich.
Steeger, Henry, 143 E 31st, New York
Trageser, Jno., Steam Copper Works, 447 W 26th, New York
Union Brass & Metal Co., St. Paul, Minn.
Victor Mfg. Co., Concord, N. H.
Watson & McDaniel (For Steam Traps), 146 N 7th, Philadelphia, Pa.
**WILSON, F. CORTEZ & CO. (also** Galvanized), 239 Lake, Chicago, Ill. (See adv. index, end of book)
Wolverine Brass Works ("Kantleak"), Grand Rapids, Mich.

## 3723— Floats (Crockery)

Bellmark Pottery Co., Trenton, N. J.
Great Western Pottery Co., Kokomo, Ind.
Maddock, Jno. & Son, Trenton, N. J.
Standard Sanitary Pottery Co., Elizabeth, N. J.
Trenton Potteries, Trenton, N. J.

## 3724— Floats (Glass)

Burr Mfg. & Supply Co., 102 Lexington av, Brooklyn, N. Y.
Dargent, Chas., 360 Crescent, Brooklyn, N. Y.
Heap, Wm. & Sons, Grand Haven, Mich.

## Floats (Life)

(See Life Rafts)

## 3725—Floats (Porcelain Enameled)

Enameled Tank Co. ("Kazoo"), Kalamazoo, Mich.

## 3726— Floats (Road)

Gaines, F. L. ("Economy"), Grand Rapids, Mich.

## 3727—Floats (Tell Tale)

**CALDWELL, W. E. CO. ("Caldwell"** High & Low Water Tank), Brook & D, Louisville, Ky. (See adv. index, end of book)

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# WOOD-MOSAIC COMPANY

**Parquetry Factory, ROCHESTER, N. Y.** **Sawmill and Flooring Factory, NEW ALBANY, IND.**

MANUFACTURERS OF

# HARDWOOD FLOORS

**Lumber and Veneers. High Grade Thick and Thin Parquetry, Wood Carpet, Fancy Borders, also Polishing Wax, Brushes and Floor Finishing Materials.**

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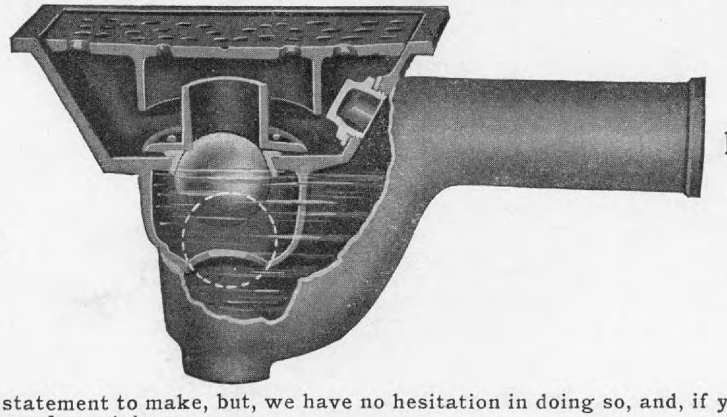
PRINCIPAL FLOORING AGENCIES:

| | | |
|---|---|---|
| BOSTON, MASS. | R. T. ADAMS & CO. | 24 Bromfield Street. |
| BALTIMORE, MD. | J. M. ADAMS. | 330 N. Charles Street. |
| BUFFALO, N. Y. | STEVENS FLOOR CO. | 658 Main Street. |
| CINCINNATI, O. | MOORES-CONEY CO. | 725 Union Trust Bldg. |
| DENVER, COLO. | DENVER HARDWOOD FLOOR CO. | Acoma Street. |
| HAMILTON, ONT., CANADA | THOMAS C. WATKINS, LTD. | |
| LOUISVILLE, KY. | H. M. ENGLEMAN. | 415 Third Avenue. |
| MONTREAL, CANADA | MONTREAL WOOD MOSAIC FLG. CO. | 730 St. Catherine Street. W. |
| MILWAUKEE, WIS. | JOHN DOUBRAWA & SON. | 633 E. Water Street. |
| NEW HAVEN, CONN. | W. H. MALAY. | 69 Orange Street. |
| NEW YORK, N. Y. | WOOD-MOSAIC CO. | 9 E. 32d Street. |
| NEWARK, N. J. | R. A. DORRILL. | 280 Bank Street. |
| PROVIDENCE, R. I. | ARDREY & ADAMS. | 107 Washington Street. |
| PHILADELPHIA, PA. | HEATON & WOOD. | 1706 Chestnut Street. |
| PITTSBURG, PA. | EMPIRE FLG. CO. | 905 Manufacturers' Bldg. |
| ROCHESTER, N. Y. | A. ADAMS CO. | 58 East Avenue. |
| SAN FRANCISCO, CAL. | HARDWOOD INTERIOR CO. | 1206 Polk Street. |
| SPRINGFIELD, MASS. | J. F. LAWSON & CO. | care Forbes & Wallace Rug Dept. |
| SCRANTON, PA. | WILLIAMS & McANULTY. | 129 Wyoming Avenue. |
| SYRACUSE, N. Y. | A. ADAMS CO. | 219 New Rosenbloom Bldg. |
| TOLEDO, O. | E. G. McFILLEN. | 25 N. Erie Street. |
| WASHINGTON, D. C. | J. M. ADAMS. | 1126 Connecticut Avenue. |
| WILKES-BARRE, PA. | WILLIAMS & McANULTY. | 18 S. Main Street. |
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(ALSO NUMEROUS SMALLER AGENCIES)

# THE BEST FLOOR DRAIN ON EARTH

THE BLAKE JUNIOR



NO BACK FLOOR DRAIN

This is a broad statement to make, but, we have no hesitation in doing so, and, if you will examine the cut, it will convince you of our claim.

Has a sand arrester to prevent mud and sand from washing in trap. Easy to clean—cover not bolted. Clean-out plug for access to sewer. It has spun copper ball and rubber seat, which makes it a perfect back-water floor drain. Made in 2-inch and 4-inch sizes.

2-inch measures 10 by 10 inches and 9 inches deep. 2-inch weighs 25 pounds.

4-inch measures 17 by 17 inches and 16 inches deep. 4-inch weighs 85 pounds.

**We manufacture Clean-outs, Iron, Lead and Brass Traps fitted with Blake's famous "So-easy-to-remove-clean-out cover and soil pipe fittings."**

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Commercial Register

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## 3727a— Floor Coverings

Detroit Woodoleum Co., Detroit, Mich.

### Floor Dressing

(See Floor Oils, Dust Absorbing)

## 3728— Floor Finish

Acme White Lead & Color Works, Detroit, Mich.
Atlantic Drier Co., Drexel bldg, Phila., Pa.
Binswanger, B. & Co. ("Zanzibolio"), 115 N 4th, Phila., Pa.
Boston Varnish Co. ("Kyanize"), Boston, Mass.
Bowers, U. R. & Sons ("Afro-Lac"), Los Angeles, Cal.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
Bridgeport Wood Finishing Co., New Milford, Conn.
Butcher Polish Co., 356 Atlantic av, Boston, Mass.
Chicago Varnish Co., 2090 Elston av, Chicago, Ill.
Chicago Wood Finishing Co., 146 Elston av, Chicago, Ill.
Cleveland Varnish Co. ("Permanere"), Cleveland, O.
Farrington Co., 1 Madison av, New York
Floor-Shine Co. ("Floor-Shine" Enamel Colors), St. Louis, Mo.
Gilman, Chas. H. ("Drescote"), 103 Merrimac, Boston, Mass.
Glidden Varnish Co. ("Jap-A-Lac"), Cleveland, Ohio
Hanna Paint Mfg. Co ("Lustro"), Columbus, Ohio
Johnson, S. C. & Son ("Johnson's" Kleen Floor), Racine, Wis.
Lawrence, W. W. & Co. ("Lik-E-Namel" for Floors, Furniture, etc.), Pittsburg, Pa.
Lilly Varnish Co. (Parquetry Floor Preservative), Indianapolis, Ind.
Messenger, R. H. Co. ("A-Cot-A"), Auburn, N. Y.
Nice, Eugene E. ("Agate"), 272 S 2d, Phila., Pa.
O'Brien Varnish Co., South Bend, Ind.
Parker Mfg. Co., 18 Hoosick, Troy, N. Y.
Patterson-Sargent Co. ("China-Lac"), Cleveland, O.
Pratt & Lambert, 100 William, New York
Standard Varnish Works (Gutta Percha & Flattine "Elastica"), 29 B'way, New York
Vilas Bros. (Floorum Varnish), 227 5th av, Chicago, Ill.
Wadsworth-Howland Co., Chicago, Ill.
Whitehead, J. W. Jr., 1 Madison av, New York
**WOOD-MOSAIC CO.; Main Office & Factory:** Rochester, N. Y. (See adv. index & branch offices, end of book)

## 3728a—Floor Finish (Parquet-Lac)

**INTERIOR HARDWOOD CO.**, Indianapolis, Ind. (See adv. index, end of book)

### Floor Lights

(See Vault & Sidewalk Lights, Plain & Prismatic)

## 3729—Floor Oils (Dust Absorbing)

American Dust Absorbing Floor Oil Co., 181 Lafayette, New York
Bird, J. A. & W. & Co. ("Globe"), Boston, Mass.
Glidden Varnish Co. ("Glidden's" Waterproof for Concrete & Cement Floors), Cleveland, Ohio
**INDIAN REFINING CO., 123 William,** New York. (See adv. index & branch offices, end of book)
Keyes, S. P., 149 Congress, Boston, Mass.
Lewis, Samuel ("Alpine Wax Oil"), 5 Front, New York
New England Dustlayer Co., 620 Atlantic av, Boston, Mass.
Ohio Chemical Co., Findlay, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Standard Oil Co. ("Standard"), 555 W 25th, New York
Winn, Wm. R., 143 Maiden la, New York

## 3730—Floor Polish (Hard Wax)

Acme White Lead & Color Works ("Colonial"), Detroit, Mich.
Bird, J. A. & W. & Co., 34 India, Boston, Mass.
Bridgeport Wood Finishing Co., New Milford, Conn.
Butcher Polish Co., 356 Atlantic av, Boston, Mass.
Chicago Varnish Co., 2090 Elston av, Chicago, Ill.
Great Western Oil Co., Cleveland, O. (See adv. index, end of book)

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

Johnson, S. C. & Son Racine, Wis.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lowell Polish Co., Lowell, Mass.
Ohio Chemical Co., Findlay, O.
Onward Mfg. Co. ("Old Scotch"), Menasha, Wis.
Sherwin-Williams Co., Cleveland, O.
Smith, John A. Floor Co. ("Nonpareil"), Los Angeles, Cal.
Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.
**WOOD-MOSAIC CO.; Main Office &** Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

### Floor Surfacing Machines

(See Machinery)

## 3731—Floor Stands for Valves

**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**SIMMONS, JOHN CO., 104 Centre,** New York (See adv. index, end of book)

## 3732—Floor Treads (Electric Bell)

Renim Specialty Co. ("Renim" for Use with Rigid or Flexible Metallic Conduit, etc.), Brighton Station, Boston, Mass.

## 3733— Floor Wax

Boyle, A. S. & Co., 1908 W 8th, Cincinnati, O.
Great Western Oil Co., Cleveland, O.
**INDIAN REFINING CO., 123 William,** New York. (See adv. index & branch branch offices, end of book)
Pratt, B. G. C. ("Hydrowax" For Cleaning & Polishing), 50 Church, New York
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 3734— Flooring (Car)

**AMERICAN MASON SAFETY TREAD** Co. ("Karbolith"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
**BERGER MFG. CO. ("Keystone"),** Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
General Railway Supply Co. ("Flexolith," Composition), 204 Dearborn, Chicago, Ill.

### Flooring (Composition)

(See Flooring, Sanitary)

## 3735—Flooring (Hard Wood)

Arpin Hardwood Lumber Co., Grand Rapids, Wis.
Carrier Lumber & Mfg. Co., Sardis, Miss.
Cincinnati Floor Co., Cincinnati, O.
Cobbs & Mitchell (Inc.), (Electric, Maple & Beech), Cadillac, Mich.
Cowper & Wilson, Olean, N. Y.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Dennis Bros. (Birch & Maple), Grand Rapids, Mich.
Dunfee & Co., 59 N Claremont av, Chicago, Ill.
Dwight Lumber Co., Detroit, Mich.
Eaglesfield & Shepard, Indianapolis, Ind.
Farrin, M. B. Lumber Co. (Poplar Siding & "Century" Oak Flooring), Cincinnati, O.
Heaton & Wood, 1706 Chestnut, Phila., Pa.
Inlaid Floor Co., 422 Sutter, San Francisco Cal.

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book
Kentucky Hardwood Flooring Co., Louisville.
Mansfield Lumber Co., Mansfield, O. Ky
Nashville Hardwood Flooring Co. ("Acorn" Brand & Oak Beech), Nashville, Tenn.
New Glasgow Planing Mill Co. (Beech, Oak, etc.), Glasgow, Ky.
Nichols & Cox Lumber Co., Grand Rapids, Mich.
North Vernon Lumber Co. ("Indiana" Brand), North Vernon, Ind.
Salmon, Hamilton H. & Co. (Wholesale Mfrs.), 88 Wall, New York
**STEARNS, A. T. LUMBER CO.,** Neponset, Boston, Mass. (See adv. index, end of book)
Union Planing Mill Co., Olean, N. Y.
Waccamaw Lumber Co., Bolton, N. C.
Wilce, T. Co., 22d & Throop, Chicago, Ill.
**WOOD-MOSAIC CO.; Main Office &** Works, Rochester, N. Y. (See adv. index & branch offices, end of book)
Young, W. D. & Co. (Wholesale Mfrs.), Bay City, Mich.

## 3736— Flooring (Maple)

Benedict, C. D. & Co., Peoria, Ill.
Bruckman Lumber Co., N S, Pittsburg, Pa.
Buffalo Maple Flooring Co. ("Michigan Rock"), Buffalo, N. Y.
Cobbs & Mitchell (Inc.) ("Electric"), Maple & Beech, Cadillac, Mich.
Cream City Sash & Door Co., Milwaukee, Wis.
Cummer, Diggins & Co., Cadillac, Mich.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Dennis Bros. ("National"), Grand Rapids, Mich.
Dwight Lumber Co. (And Wholesale Dealers), Detroit, Mich.
Eastman, S. L. Flooring Co. ("Saginaw" Brand), Saginaw, Mich.
Excelsior Clay Works, Brazil, Ind.
Forman, Thos. Co. (Maple & Oak, Bored & End Matched), Detroit, Mich.
Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.
Gilchrist, F. W., Alpena, Mich.
Hettler, Herman H. Lumber Co. ("Modern" Brand), 2601 Elston av, Chicago, Ill.
Kerry & Hanson Flooring Co. ("Chief" Brand), Grayling, Mich.
Krouskop, A. H., Richland Center, Wis.
Lobdell & Churchill Mfg. Co., Onaway, Mich.
Manistee Planing Mill Co., Manistee, Mich.
Mansfield Lumber Co., Mansfield, O.
Mitchell Bros. Co. ("Rockhard"), Cadillac, Mich.
Morgan Co., Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
Nichols & Cox Lumber Co., Grand Rapids, Mich.
North Branch Flooring Co., 3036 N Western av, Chicago, Ill.
Rittenhouse & Embree Co. (Gilt Edge), 3500 S Centre av, Chicago, Ill.
Robbins Lumber Co. ("Robbins" Rock Maple), Rhinelander, Wis.
Schroeder, Jno. Lumber Co., Milwaukee, Wis.
Schultz Bros., 84 Van Buren, Chicago, Ill.
South Side Lumber Co., S Ashland av & W 22d, Chicago, Ill.
**STEARNS, A. T. LUMBER CO. (Lumber),** Neponset, Boston, Mass. (See adv. index, end of book)
Stephens, Henry & Co., Detroit, Mich.
Stephenson, I. Co. ("Ideal" Rock Maple), Wells, Mich.
Ward Bros. ("Michigan"), Big Rapids, Mich.
White, W. H. Co. ("White Rock"), Detroit, Mich.
Wilce, T. Co., Throop & W 22d, Chicago, Ill.
Williams, W. E. Co., Traverse City, Mich.
Wisconsin Land & Lumber Co. (Maple, Birch & Cherry), Hermansville, Mich.
Young, W. D. & Co., Bay City, Mich.

## 3737— Flooring (Oak)

(See also Flooring, Maple)

Arpin Hardwood Lumber Co. ("A-H-L" Brand, Red Bank), Grand Rapids, Wis.
Bruckman Lumber Co., N S, Pittsburg, Pa.
Buffalo Maple Flooring Co. ("Michigan Rock"), Buffalo, N. Y.
Carrier Lumber & Mfg. Co. (Kiln Dried, Bored, Polished, End Matched, etc.), Sardis, Miss.
Dwight Lumber Co., Rouge River & M. C. R. R., Detroit, Mich.
Farrin-Korn Lumber Co., Cincinnati, O.
Farrin, M. B. Lumber Co. ("Century," also Poplar Siding), Cincinnati, O.
Fern Bros. Co., Memphis, Tenn.
Forman, Thos. Co., Detroit, Mich.
Fourche River Lumber Co., Fourche, Ark.
**INTERIOR HARDWOOD CO.**, Indianapolis, Ind. (See adv. index, end of book)
Kentucky Hardwood Flooring Co., Louisville, Ky.
Krouskop, A. H., Richland Center, Wis.

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Linehan Lumber Co., Pittsburg, Pa.
Mansfield Lumber Co., Mansfield, O.
Missouri Lumber & Land Exchange Co. (Bored & Hollow Backed), Kansas City, Mo.
Mitchell Bros. Co. ("Red Oak"), Cadillac, Mich.
Memphis Hardwood Flooring Co. (Chickasaw Brand), Memphis, Tenn.
Morgan Co., Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
Nashville Hardwood Flooring Co. ("Acorn"), Nashville, Tenn.
New Glasgow Planing Mill Co. (Kiln Dried, Bored, End Matched, Hollow Back & Polished), Glasgow, Ky.
Nichols & Cox Lumber Co., Grand Rapids, Mich.
Oak Flooring Bureau, Detroit, Mich.
Osgood & Blodgett Mfg. Co., St. Paul, Minn.
Rittenhouse & Embree Co. (Gilt Edge), 3500 S Centre av, Chicago, Ill.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book)
Wilce, F. Co., 22d & Throop, Chicago, Ill.
**WOOD-MOSAIC CO.; Main Office &** Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

## 3738—Flooring (Sanitary)

Acme Asbestos Covering & Supply Co. ("Acmetyle," Asbestos, Colors as Desired), 1840 Austin av, Chicago, Ill.
**AMERICAN MASON SAFETY TREAD** Co. ("Karbolith"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
American Monolith Co. ("Monolith"), Milwaukee, Wis.
Asbestolith Mfg. Co., 1 Madison av, New York
California Peerless Stone Tile & Plaster Co., San Francisco, Cal.
Davis Sanitary Floor Co., 234 Lasalle, Chicago, Ill.
Demling & Wendt ("D. & W."), 84 La Salle, Chicago, Ill.
Demolith Co. ("Demolith," "Xolith"), San Francisco, Cal.
Djorup, Frantz ("Austrian-American"), 903 Wash. Blvd., Chicago, Ill.
Driscoll Cement Works, Appleton, Wis.
European Statuary Co. ("Tesco"), 401 Potter av, Milwaukee, Wis.
Hydrolith Co. ("Hydrolith"), 25 Dean, Brooklyn, N. Y.
Imperial Floor Co., Rochester, N. Y.
Keasbey, Robt. A. Co. ("Crown"), 100 N Moore, New York
Marbleized Fibre Co. (Marbleized Fibre), Cincinnati, O.
Marbleoid Co. ("Sanitas," "Marbleoid"), 47 W 34th, New York
Muller, Franklin R. & Co. ("Asbestone"), 312 N May, Chicago, Ill.
Petro Pulp Floor Co. ("Petro," Pulp), Kansas City, Mo.
Raeco Products Co. ("Raeco"), Seattle, Wash.
Raecolith Co. ("Raecolith"), Portland, Ore.
Sagax Wood Co. ("Sagax" Fireproof), Baltimore, Md.
Schillinger Bros. Co., Toledo, O.
Standard Sanitary Flooring Co. (Fire & Waterproof), 34 W 33d, New York
Thompson-Kirkpatrick Co. ("Imperial," Asbestos), 1021 Callowhill, Phila., Pa.
Warren Bros. Co. ("Puritan"), Boston, Mass.

## 3739—Flooring (Wood Block)

**INTERIOR HARDWOOD CO., Indianapolis, Ind.** (See adv. index, end of book)
Kettle River Co., Minneapolis, Minn.
Nightingale Co. (Interlocking, Laid on Cement Only), 277 B'way, New York
**WILSON, JAS. G. MFG. CO. (English System),** Chief Office: 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)
**WOOD-MOSAIC CO.; Main Office &** Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

## 3740—Flooring (Wood Block, Steel Woven)

**WOOD-MOSAIC CO. (For Concrete Floors),** Main Office & Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

## 3741—Floors (Malt Kiln)

Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Schillinger Bros. Co., Toledo, O.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
Sicilian Asphalt Paving Co., 41 Park row, New York
Toepfer, W. & Sons, Milwaukee, Wis.

## 3742— Floors (Parquet)

(Star (*) Indicates Manufacturers)

Acme Floor Co., 104 Franklin, Chicago, Ill.
Adams, R. T. (Wood Mosaic Flooring Co.), 24 Bloomfield, Boston, Mass.
American Parquetry Co., 3 E 42d, New York
*American Parquetry Floor Co., 1124 Walnut, Phila., Pa.
*Bostwick-Godell Co., Norwalk, Ohio
*Boynton, John H., 186 5th av, New York
Buttle Parquet Floor Co., 607 W 43d, New York
*Cincinnati Floor Co., Cincinnati, O.
Cleveland Grille & Mfg. Co., Cleveland, O.
Cleveland Hardwood Floor Co., Cleveland, O.
*Dunfee, J. & Co., 59 Claremont av, Chicago, Ill
Eaglesfield-Shepard, Indianapolis, Ind.
Frings, Martin, 1004 Walnut, Phila., Pa.
Halbert, Geo. & W., 455 Fulton, Brooklyn, N. Y.
Hamilton, H. E. & Co., Indianapolis, Ind.
Heaton & Wood, 1706 Chestnut, Phila., Pa.
Inlaid Floor Co., 398 Eddy, San Francisco, Cal.

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.
(See adv. index, end of book)

Interlaid Parquetry Co., 13 Lawrence, New York
*Johnson, S. C. & Son, Racine, Wis.
*Koch, G. W. & Son, 467 5th av, New York
McBride, Jas. Co., 139th & Ryder av, New York
Moore, E. B. & Co., 76 Wabash, Chicago, Ill.
Moore, J. C. & Co., 38 S 18th, Phila., Pa.
*National Wood Floor Co., 500 5th av, New York
*New York Flexible Wood Flooring Co., 37 W 42d, New York
Nightingale Co. (Interlocking, Laid on Cement Only), 277 B'way, New York
Northwestern Parquet Floor Co., 82 S 9th, Minneapolis, Minn.
Osgood, Blodgett Mfg. Co., St. Paul, Minn.
*Pope, Charles A., 320 E 95th, New York
Reid, Wm. G. & Co., 2 W 33d, New York
Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.
Roll's, W. H. Sons, Indianapolis, Ind.
Smith, Jno. A. Floor Co., Los Angeles, Cal.
Standard Parquet Floor Co., 80 Court, Brooklyn, N. Y.
Terwilliger Mfg. Co., 11 W 30th, New York
Victor Parquetry Floor Co., Lynn, Mass.
*Wilke Mfg. Co. (Mfrs.), Anderson, Ind.
**WOOD-MOSAIC CO.; Main Office &** Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

## Floors (Sanitary)

(See Flooring, Sanitary)

## 3743— Flour (Carbon)

National Carbon Co., Cleveland, O.

## 3744—Flour (Core or Foundry)

Buckeye Products Co., Cincinnati, O.
Federal Foundry Supply Co., Cleveland, O.
Piqua Flour Co. (Core Flour), Piqua, O.
Millers' Products Co., 39th & Wallace, Chicago, Ill.
**SPRINGFIELD FACING CO., Springfield, Mass.** (See adv. index, end of book)
Whitehead Bros. Co., 537 W 27th, New York

## 3745— Flour Mill Builders

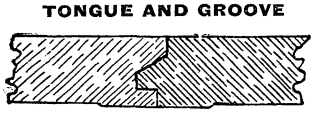
Barnard Machinery Co., Enterprise, Kan.
Barnard & Leas Mfg. Co., Moline, Ill.
Dehner-Wuerpel Mill Bldg. Co., St. Louis, Mo.
Gump, B. F., Co., 429 S Clinton, Chicago, Ill
Hutchinson, Jno. Mfg. Co., Jackson, Mich.
Montpelier Cup & Metal Works, Montpelier, Ind.
Nordyke & Marmon Co., Indianapolis, Ind.
Robinson Mfg. Co., Muncy, Pa.
Salem Foundry & Machine Works, Salem, Va.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Starr, B. F. Co., 455 North, Baltimore, Md.
Stone-Watts Mfr. & Construction Co., Springfield, Mo.

## 3746— Flourine Pickle

Sholes, Chas. E. Co. (Platers & Galvanizers), 164 Front, New York

## 3747— Flower Pot Mfrs.

Bird, F. W. & Son ("Neponset" Waterproof Paper), East Walpole, Mass.
Cambridge Tile Mfg. Co. (Inc.), Covington, Ky.
Carnegie Brick & Pottery Co., San Francisco, Cal.
Detroit Flower Pot Mfg. Co., Detroit, Mich.

PARQUET FLOORS
Flooring Strips Wood Carpet
FINEST HARDWOOD
PLAIN OR ORNAMENTAL
THICK OR THIN
PRICES AND CATALOGUE OF DESIGN FREE
STRICTLY CLEAR
NO SAP
SELECTED FOR
COLOR
KUHN PATENT
TONGUE AND GROOVE

OF FINEST WOODS, LONG LENGTHS
STOCKS CARRIED IN LEADING CITIES
THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

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Findlay Clay Pot Co., Findlay, O.
Hews, A. H. & Co., Cambridge, Mass.
Ionia Pottery Co., Ionia, Mich.
Johnson Pottery Co., Mount Gilead, O.
Peters & Reed Pottery Co., Zanesville, O.
Springfield Clay Mfg. Co., Springfield, O.
Standard Toy Marble Co., Akron, O.
Syracuse Pottery Co., Syracuse, N. Y.
Uhl Pottery Co., Evansville, Ind.
Washington Brick, Lime & Mfg. Co., Spokane, Wash.
Wassall Fire Clay Co., Columbus, O.

## 3747a—Flower Pot Mfrs. (Metal, in Battery)

**WILSON, F. CORTEZ & CO. ("Potaly")**, 239 Lake, Chicago, Ill. (See adv. index, end of book)

## Flue Cleaners or Brushes

(See Cleaners, Boiler Flue & Tube)

## Flue Scraperrs

(See Cleaners, Boiler Flue & Tube)

## 3748— Flumes (Iron)

**CANTON BOILER & ENGINEERING CO.**, Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Egleston, T. C. ("Maginnis" Galvanized Steel, No Rivets, No Solder), Denver, Colo.
**Fitz Water Wheel Co., Hanover, Pa.**
**Franklin Boiler Works Co., Green Island, Troy, N. Y.**
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Harry Bros. Co. ("Harry's", Corrugated & "K.-D." Galvanized), Newport, Ky., & New Orleans, La.
**Hunt, Rodney Machine Co., Orange, Mass.**
Keeler, E. Co., Williamsport, Pa.
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index, end of book)
Lone Star Culvert Co., Houston, Tex.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
New York Central Iron Works Co. (Also Steel), Geneva, N. Y.
**PETROLEUM IRON WORKS CO.**, Sharon, Pa. (See adv. index & branch offices, end of book)
Risdon Iron & Locomotive Works, San Francisco, Cal.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of
Southern Bridge Co., Birmingham, Ala. book)
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York

## 3749— Flumes (Wood)

Stevens Tank & Tower Co., Auburn, Me.

## 3750— Fluorspar

Albany Mining & Investment Co., Marion, Ky.
Crocker Bros. (Importers), 99 John, New York
Eclipse Mining Co., Louisville, Ky.
Evansville Lead & Spar Co., Evansville, Ind.
Kentucky Fluor Spar Co., Marion, Ky.
Mallinckrodt Chemical Works, St. Louis, Mo.
Penna. Salt Mfg. Co. (Pyrite), 115 Chestnut, Philadelphia, Pa
Roessler & Hasslacher Chemical Co., 100 William, New York
Rogers-Brown & Co., Cincinnati, O.
Rosiclaire Lead & Fluorspar Mines, Washington, D. C.
Tennant's, C. Sons & Co. (Importers), 76 William, New York
Wiarda, Jno. & Co., 259 Greenpoint, av, Brooklyn, N. Y.

## 3751—Flushers (Automatic Sewage)

Healey Sewer Machine & Construction Co., 21 Park row, New York
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

## 3751a—Flux (Aluminum Welding & Brazing)

General Welding Co., Hoboken, N. J.

## 3752—Flux (Blast Furnace)

Ohio Marble Co. (Limestone), Piqua, O.
Security Cement & Lime Co. (Limestone), Baltimore, Md.

## 3753—Flux (Brass Foundry)

Basic Mineral Co. ("Keystone" Thermo Flux), Pittsburg, Pa.
Foundry Specialty Co., Cincinnati, O.
International Flux Co. ("Keystone," Thermal), Evansville, Ind.
**NEW ERA MFG. CO., Kalamazoo,** Mich. (See adv. index, end of book)

## Flux (Soldering)

(See Soldering Paste, Salts & Stick)

## 3753a—Fly Escape Window Screen Attachment

Wright, Frank, Cave Springs, Ga.

## 3754—Fly Killers (Fine Steel Wire)

**OSBORN MFG. CO., Cleveland, O.** (See adv. index, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 3755— Fly Nets

Given, R. & Son Co. (For Horses), Sidney, O.
Penna Net Co., Wellsville, Pa.
Wellsville Mfg. Co., Wellsville, Pa.
Wilson, R. F. & Co. (Leather), Milton, Pa.


**NEW ERA SELF-LUBRICATING METALLIC ENGINE PACKING**

**This Improved Packing Material** consists of a compound mass of Mineral Lubricants: Hence, it provides perfect lubrication under all conditions of service, requiring no lubrication whatever, except that contained within its own substance. It never becomes charred or otherwise unfit for service; and it will not lock or score the rods, plungers or shafts on which it is used.

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**Prevents** excessive shrinkage, porous formation, blow-holes and cold-shuts.

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## Fly Screens

(See Screens, Window, Metal Frame; also Screens, Window & Door; also Screens, Wire, Rustless)

## 3755a—Foot-Balls & Bladders (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 3756—Foot Rests for Automobiles

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 3757—Foot Rests (Radiator)

Jennison Co. (Adjustable), Fitchburg, Mass.

## 3758—Foot Rests (Shoe Blacking)

American Foundry & Mfg. Co., St. Louis, Mo.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Heath Foundry & Mfg. Co., Plymouth, O.
Sacks, Louis, Newark, N. J.
Weller Hardware & Foundry Co., Horseheads, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

## 3759—Foot Warmers (Electric)

Electric Heating & Mfg Co. (Also Room Heaters), Los Angeles, Cal.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 3759a—Forges (Blacksmiths')

(See also Forges, Portable)

**CANTON FOUNDRY & MACHINE CO.** ("Universal" Stationary), Canton, O. (See adv. index, end of book)

## 3760— Forges (Blast)

**BEACH-RUSS CO., 55-59 Green,** Brooklyn, N. Y. (See adv. index, end of book)
Buffalo Forge Co. (Stationary & Portable), Buffalo, N. Y.
Miner & Peck Mfg. Co., New Haven, Conn.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## Forges (Brazing)

(See Furnaces, Brazing)

## 3761—Forges for Brazing Irons

Covel Mfg. Co., Benton Harbor, Mich.
Hauck Mfg. Co., 140 Cedar, New York

## 3762—Forges for Drop Forging Plants

**AMERICAN GAS FURNACE CO. (Gas Blast),** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Best, W. N. & Son, 11 B'ay, New York
Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Miner & Peck Mfg. Co., New Haven, Conn.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York (See adv. index, end of book)
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.

## 3763—Forges (Gas Blast)

Albany Foundry Co. ("Argand" Gas Forge), Albany, N. Y.
**AMERICAN GAS FURNACE CO., 24 John,** New York, & Elizabeth, N. J. (See adv. index, end of book)
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Comstock, A. S. (Automatic Power), Evanston, Ill.
Lucas, J. L. & Sons, Bridgeport, Conn.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
U. S. Gas Furnace Co., Providence, R. I.
Westmacott Gas Furnace Co., Providence, R. I.

## 3764— Forges (Heating)

Beaudry & Co., 141 Milk, Boston, Mass.
Bradley, C. C. & Son, Syracuse, N. Y.
Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. (Portable & Stationary), Chicago Heights, Ill.
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Evans', Jno. Sons (& Welding), 13th & Buttonwood, Philadelphia, Pa.
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## 3765—Forges (Oil, Portable)

Best, W. N. & Son, 11 B'way, New York
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
National Supply Co. ("Billow" System), 315 Dearborn, Chicago, Ill
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## 3766—Forges (Pneumatic)

**CHICAGO PENUMATIC TOOL CO.** ("Chicago"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Manitowoc Dry Dock Co., Manitowoc, Wis.
Mires Fuel Oil Equipment Co., Norfolk, Va.

## 3767— Forges (Portable)

Bauer Bros. Co. ("Foos" Blacksmiths' & Farmers'), Springfield, O.
**BEGGS, JAMES & CO., Liberty &** Church, New York
Billings & Spencer Co., Hartford, Conn.
Boynton & Plummer, Worcester, Mass.
Brown & Patterson, 33 Marcy av, Brooklyn,
Buffalo Forge Co., Buffalo, N. Y. N. Y.
Canedy-Otto Mfg. Co. ("Western Chief" & "Royal"), Chicago Heights, Ill
Champion Blower & Forge Co., Lancaster, Pa.
Chicago Scale Co., 292 W Jackson boul, Chicago, Ill.
Cleveland Steam Gauge Co. ("Watson"), 1566 Merwin, N. W., Cleveland, O.
Cox & Sons Co., Lafayette bldg, Phila., Pa.
Cumming, David, 787 W Kinzie, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fargo Foundry Co. (Farm), Fargo, N. D.
Garratt, W. T. & Co., San Francisco, Cal.
Hauck Mfg. Co., 140 Cedar, New York
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Mires Fuel-Oil Equipment Co., Norfolk, Va.
Potts, D. H., Lancaster, Pa.
Roots, P. H. & F. M. Co., Connersville, Ind.
Russ, A. E. Mfg. Co., Cleveland, O.
Silver Mfg. Co., Salem, O.
Slotkin, Mayer Mfg. Co. ("Kickdrive"), 210 Canal, New York
**STURTEVANT, B. F. CO. (Also Stationary),** Hyde Park, Mass. (See adv. index & branch offices, end of book)
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

## 3768—Forges (Rivet Heating)

American Shop Equipment Co., McCormick bldg, Chicago, Ill.
Best, W. N. & Son, 11 B'way, New York
**CHICAGO PNEUMATIC TOOL CO.** ("Chicago"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hauck Mfg. Co., 140 Cedar, New York
**INGERSOLL-RAND CO. ("McDonald"),** 11 B'way, New York. (See adv. index & branch offices, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Manitowoc Dry Dock Co. ("Gunnell" Pneumatic), Manitowoc, Wis.
**ROCKWELL FURNACE CO. (Portable Oil),** 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.) (Portable Oil** Rivet Forges), Empire bldg, Pittsburg, Pa. (See adv. index, end of book)

## Forges (Tuyere Iron)

(See Heaters, Tuyere Iron)

## Forging Machines

(See Machines, Forging)

## 3769—Forgings (Aluminum)

Belden Machine Co., New Haven, Conn.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
United States Aluminum Co., Pittsburg, Pa.
Williams, J. H. & Co., 150 Hamilton, Brooklyn, N. Y.

## 3770—Forgings (Automatic Coupler)

American Iron & Steel Mfg. Co. (Back Link, Knuckle & Pivot Pins, Drawhead Bolts & Nuts, etc.), Lebanon, Pa.

## 3771—Forgings (Automobile)

(Also Forgings, Iron & Steel)

American Shovel & Stamping Co., Lorain, O.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
American & British Mfg. Co., Providence, R. I.,
**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
Atlas Drop Forge Co., Lansing, Mich.
Atwater Mfg. Co., Plantsville, Conn.
Baker Gun & Forging Co., Batavia, N. Y.
Barnett Drop Forging Co. (Axles, Crankshafts & All Auto Forgings), East Hampton, Mass.
Bates Forge Co., Indianapolis, Ind.
Belden Machine Co., New Haven, Conn.
Bethlehem Steel Co. (Of Special Grades of Steel), South Bethlehem, Pa.
Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Bonney Vise & Tool Works (Inc.), Allentown, Pa.
Chicago Drop Forge & Foundry Co., Kensington av & I C Tracks, Chicago, Ill.
Clapp, E. D. Mfg. Co., Auburn, N. Y.
Columbus Bolt Works, Columbus, O.
Consolidated Mfg. Co., Toledo, O.
Crescent Forgings Co., Oakmont, Pa.
De Laney Forge & Iron Co., Buffalo, N. Y.
Detroit Forging Co., Detroit, Mich.
Detroit Steel Products Co., Detroit, Mich.
Dunne, Geo. W. & Co., 1943 Carroll av, Chicago, Ill.
Eccles, Richard Co., Auburn, N. Y.
Flanders Mfg. Co., Pontiac, Mich.
**FRASSE, PETER A. & CO., Canal & Sullivan,** New York. (See adv. index & branch offices, end of book)

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Funk Engineering Co., Hoboken, N. J.
General Drop Forge Co., 1738 Elmwood av, Buffalo, N. Y.
Gill, P. H. & Son, Lorraine & Otsego, Brooklyn,
Hayes Mfg. Co. (Iron), Detroit, Mich. N. Y.
Heppenstall Forge Co., Bridgeport, Conn.
Heppenstall Forge & Knife Co., Pittsburg, Pa.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Ingalls-Shepard Forging Co., 193 Michigan av, Chicago, Ill.; Works: Harvey, Ill.
Keystone Drop Forge Works, Chester, Pa.
Lakeside Forge & Wrench Co., Erie, Pa.
Martin, H. J. Forging Co., Indianapolis, Ind.
McInnes Steel Co. (Ltd.) ("McInnes," Steel), Corry, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
New Brunswick Iron Works, New Brunswick,
Ohio Forge Co., Cleveland, O. N. J.
Page-Storms Drop Forge Co., Chicopee, Mass.
Portland Fdry & Machine Co., Portland, Ind.
Richmond Forgings Corporation, Belle Isle, Richmond, Va.
Rochester Drop Forge Co., Rochester, N. Y.
Seward, M. & Son Co., New Haven, Conn.
Sizer Forge Co., Buffalo, N. Y.
Standard Connecting Rod Co., Beaver Falls, Pa.
Strieby & Foote Co. (Drop), Newark, N. J.
Sunberg, Kropp & Co., 2512 W 21st Chicago, Ill.
Tindel-Morris Co. (Finished), Eddystone, Pa.
Transue & Williams Co., Alliance, O.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.
**WORCESTER PRESSED STEEL CO.** (Cold), Worcester, Mass. (See adv. index & branch offices, end of book)
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 3772– Forgings (Bronze)

Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Detroit Steel Products Co., Detroit, Mich.
Eureka Tempered Copper W'ks, North East, Pa.
General Drop Forge Co., Buffalo, N. Y.
Keystone Drop Forge Works, Chester, Pa.
Page-Storms Drop Forge Co., Chicopee, Mass.
Phosphor Bronze Smelting Co. (Ltd.), 2200 Washington av, Phila., Pa.
Transue & Williams Co., Alliance, O.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 3772a– Forgings (Car)

(See also Forgings, Iron & Steel)
**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)

## 3773– Forgings (Cold)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 3774– Forgings (Copper)

Belden Machine Co., New Haven, Conn.
Billings & Spencer Co., Hartford, Conn.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Eureka Tempered Copper W'ks, North East, Pa.
Forest City Electric Co. (Roll Dop), Cleveland,
General Drop Forge Co., Buffalo, N. Y. Ohio
Keystone Drop Forge W'ks, Chester, Pa.
Kilborn & Bishop Co., New Haven, Conn.
Page-Storms Drop Forge Co., Chicopee, Mass.
Transue & Williams Co., Alliance, O.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 3775– Forgings (Die)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Crucible Steel Forge Co., Cleveland, O.
Hay-Budden Mfg. Co., 254 N Henry, Brooklyn,
Tindel-Morris Co., Eddystone, Pa. N. Y.

## 3776– Forgings (Drop)

(See also Forgings, Iron & Steel)
Akron Machine Co., Akron, O.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
American Tube & Stamping Co., Bridgeport, Conn.
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
Baker Gun & Forg. Co. (Small), Batavia, N. Y.
Balaird Drop Forge Co., Ballard, Wash.
Barnett Drop Forging Co. (Auto & General), Easthampton, Mass.
Bassett, D. M. Bolt Works (Inc.), Shelton, Conn.
Bates Forge Co. (Flange Wheels), Indianapolis,
Belden Machine Co., New Haven, Conn. Ind.
Bethlehem Steel Co., South Bethlehem, Pa.
Billings & Spencer Co., Hartford, Conn.
Billings, C. E. Mfg. Co., Rocky Hill, Conn.
Blakeslee Forging Co., Plantsville, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Bonney Vise & Tool Works (Inc.), Allentown,
Brown, R. H. & Co., New Haven, Conn. Pa.
Canton Drop Forging & Mfg. Co., Canton, O.
Cape Ann Tool Co., Rockport, Mass.
Champion Machine & Forging Co., Cleveland, Ohio
Chicago Drop Forge & Foundry Co., Kensington av & I C Tracks, Chicago, Ill.
Clapp, E. D. Mfg. Co. (Carriage, Bicycle, etc.), Auburn, N. Y.


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## ANDERSON FORGE & MACHINE CO.

**DETROIT, MICHIGAN**


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**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
Cleveland Drop Forging Co., Cleveland, O.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Columbia Machine Works & Malleable Iron Co. (Elec. Railway), 269 Chestnut, Brooklyn, N. Y.
Columbus Bolt Works (Carriage, etc.), Columbus, O.
Columbus Forge & Iron Co., Columbus, O.
Consolidated Mfg. Co., Toledo, O.
Crescent Forgings Co., Oakmont, Pa.
Crescent Tool Co., Jamestown, N. Y.
Dean Forging Co., Muncie, Ind.
De Laney Forge & Iron Co., Buffalo, N. Y.
Detroit Forging Co. (Carriage, etc.), Detroit, Mich.
Detroit Steel Products Co., Detroit, Mich.
Diamond Forging & Mfg. Co., N. S., Pittsburg, Pa.
Doble, Abner Co., San Francisco, Cal.
Drop Forging Co. of N. Y., 301 West Side av, Jersey City, N. J.
Eccles, Richard Co. (Carriage & Special), Auburn, N. Y.
Finkl, A. & Sons Co., 2000 Hawthorne av, Chicago, Ill.
Flanders Mfg. Co., Pontiac, Mich.
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Fulton Machine & Forging Co., Canal Fulton, Ohio
General Drop Forge Co., Buffalo, N. Y.
**HELWIG MFG. CO. ("Helwig"), St. Paul,** Minn. (See adv. index, end of book)
**Henry & Allen, Auburn, N. Y.**
**Herbrand Co., Fremont, O.**
**Indianapolis Drop Forging Co.** (All Kinds), Indianapolis, Ind.
Ingalls-Shepard Forging Co., 193 Michigan av, Chicago, Ill.; Works: Harvey, Ill.
Irvington Mfg. Co. (Gun Parts, Bicycle, etc.), Irvington, N. J.
Keystone Drop Forge Works (Special, All Kinds), Chester, Pa.
**Keystone Forging Co.** (Carriage & Special), Northumberland, Pa.
Kilborn & Bishop Co. (Carriage, Bicycle, etc.), New Haven, Conn.
Kraeuter & Co. (Inc.) (Small, High Grade), Newark, N. J.
Lakeside Forge & Wrench Co., Erie, Pa.
Lewis Spring & Axle Co., Jackson, Mich.
Livermore, Homer F., 85 Pearl, Boston, Mass.
Lorain Steel Co., Johnstown, Pa.
McKay, Jas. Co., Germania Bank bldg, Pittsburg, Pa. Works, McKees Rocks, Pa.
Marine Hardware & Equipment Co., South Portland, Me.
Marshalltown Drop Forge Co., Marshalltown, Ia.
Martin, H. J. Forging Co., Indianapolis, Ind.
**MERRILL BROS., 5 William, Maspeth** (Borough of Queens), New York. (See adv. index, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.
Modern Mach'y Co., Wilmington, Del.
Moore Drop Forging Co., Springfield, Mass.
New Castle Forge & Bolt Co., New Castle, Pa.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
O. K. Tool Holder Co., Shelton, Conn.
Obenberger Drop Forge Co., Milwaukee, Wis.
Ohio Forge Co., Cleveland, O.
Oliver Iron & Steel Co. (Car & General), Pittsburg, Pa.
Page-Storms Drop Forge Co., Chicopee, Mass.
Park Drop Forge Co., Cleveland, O.
Penna. Drop Forging Co., Pittsburg, Pa.
Pennsylvania Forge Co., Phila., Pa.
Portland Foundry & Machine Co., Portland,
Revere Drop Forge Co., Revere, Mass. Ind.
Rhode Island Tool Co., Providence, R. I.
Richmond Forgings Corporation, Belle Isle, Richmond, Va.
Rivetless Chain & Engineering Co., Avon, Pa.
Rochester Drop Forge Co., Rochester, N. Y.
Schollhorn, Wm. Co., New Haven, Conn.
Scranton Forging Co. (Carriage, etc.), Scranton, Pa.
Seward, M. & Son Co. (Carriage, Bicycle, etc.), New Haven, Conn.
Smith, A. O. Co., Milwaukee, Wis.
Smith, H. D. & Co. (Vehicle & Special), Plantsville, Conn.
Springfield Drop Forging Co., Springfield, Mass.
Steel Car Forge Co., Pittsburg, Pa.
Strieby & Foote Co. (Automobile & Special), Newark, N. J.
Sundberg, Kropp & Co., 2510 W 21st, Chicago, Ill.
Superior Drop Forge & Mfg. Co., Cleveland, O.
Thomson Drop Forging Co., Plantsville, Conn.
Transue & Williams Co., Alliance, O.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Union Mfg. & Drop Forge Co. (Up to 100 lbs.), Providence, R. I.
Utica Drop Forge & Tool Co., Utica, N. Y.
Valley Forging Co., Verona, Pa.
Van Doren Mfg. Co., Chicago Heights, Ill.
Waterloo Drop Forge Co., Waterloo, Ia.
Western Drop Forge Co., Marion, Ind.
Western Malleable Steel Co., Detroit, Mich.
Western Tool & Forge Co. (Track, Mining & Blacksmith's Tools), Brackenridge, Pa.
Whitaker Mfg. Co., 509 W Monroe, Chicago,
Wilcox, D. Mfg. Co., Mechanicsburg, Pa. Ill.
Wilcox, Crittenden & Co., Middletown, Conn.
Williams Drop Forging Co. ("Williams" Cantslip Horse Shoes & Calks), Scranton, Pa.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.
Winkelman, Louis & Co., Cincinnati, O.
Wright Wrench & Forging Co., Canton, O.
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## Forgings (Electric)

(See Welding, Electric)

## 3777—Forgings (Electric Railway)

(See also Forgings, Drop; also Forgings, Iron & Steel)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Billings & Spencer Co., Hartford, Conn.
Columbia Machine Works & Malleable Iron Co., Atlantic av & Chestnut, Brooklyn, N. Y.
Dunne, Geo. W. & Co., 1943 Carroll av. Chicago, Ill.
General Drop Forge Co., Buffalo, N. Y.
Keystone Drop Forge Works, Chester, Pa.
Heppenstall Forge Co., Bridgeport, Conn.
Oliver Iron & Steel Co., Pittsburg, Pa.
Page-Storms Drop Forge Co., Chicopee, Mass.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 3777a—Forgings (Finished)

**BAY CITY FORGE CO., Erie, Pa.** (See adv. index, end of book)

## 3778—Forgings (Gas Engine)

(See also Forgings, Drop; also Forging, Iron & Steel)

**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
Atlas Drop Forge Co., Lansing, Mich.
De Laney Forge & Iron Co., Buffalo, N. Y.
General Drop Forge Co., Buffalo, N. Y.
Heppenstall Forge Co., Bridgeport, Conn.
**Heppenstall Forge & Knife Co., Pittsburg, Pa.**
Keystone Drop Forge Works, Chester, Pa.
Sundberg, Kropp & Co., 2512 W 21st, Chicago, Ill.
Tindel-Morris Co. (Specialty, Crankshafts Finished), Eddystone, Pa. & Ellwood City, Pa.
Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.

## 3779—Forgings (German Silver)

Riverside Metal Co., Riverside, N. J.

## 3780— Forgings (Hollow)

Bethlehem Steel Co., South Bethlehem, Pa.

## 3781—Forgings (Hydraulic)

American Tube & Stamping Co., Bridgeport, Conn.
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
Atlas Drop Forge Co., Lansing, Mich.
Bethlehem Steel Co., South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Tindel-Morris Co., Eddystone, Pa.
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 3782—Forgings (Iron & Steel)

### ALABAMA.

HUNTSVILLE—Huntsville Fdy. & Machine Works (Nolan & Jones, Props.). (Light & Heavy)
MOBILE—Alabama Iron Works (Light & Heavy)

### CALIFORNIA.

MARYSVILLE—Yuba Construction Co.
SAN FRANCISCO—Doble, Abner Co.
Hammond, Jno. & Co., 820 7th
Noble Electric Steel Co.
Pennington, G. W. Sons (Inc.)
Union Iron Works (Ship & Mining)

### CONNECTICUT.

BRIDGEPORT—American Tube & Stamping Co.
Farist Steel Co. (Steel Railroad & Mach'y)
Heppenstall Forge Co.
HARTFORD—Billings & Spencer Co.
NEW HAVEN—Seward, M. & Son Co.
PLANTSVILLE—Atwater Mfg. Co. (Carriage & Smith, H. D. & Co. (Carriage) Specials)


# FORGINGS

**Hammered Steel Forgings for Steam or Gas Engines and Special Machinery.**

**We Specialize in Crank Shafts, Connecting Rods and Piston Rods. Smooth Forged Semi-Finished or Finished complete.**

**BAY CITY FORGE CO. - ERIE, PA.**


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## DELAWARE.

EDGE MOOR—Edge Moor Iron Co. (Also Pressed Steel for Car Trucks, etc.)
WILMINGTON—Modern Mach'y Co. (Finished)

## GEORGIA.

SAVANNAH—Kehoe, Wm. & Sons (Heavy)
Rourke, Jno. & Sons (Heavy)

## ILLINOIS.

BLOOMINGTON—Acme Forge & Machine Co.
CHICAGO—Ajax Forge Co., Hayne & Blue Island avs
**AMERICAN SPIRAL PIPE W'KS,** W 14th & 48th av. (See adv. index, end of book)
Buda Co. (Special Track Work), Railway Exch bldg
Chicago Drop Forge & Foundry Co., Kensington av & I C Tracks
Continental Bolt & Iron Works (Structural, etc.), 2253 S Union
Dunne, Geo. W. & Co., 1943 Carroll av
Ingalls-Shepard Forging Co. (Auto, R. R. Machinery, etc.), 193 Michigan av, Chicago, Ill.; Works: Harvey, Ill.
Kropp, A. & Co. (Railroad, Ship, Bridge, Building, etc.), 527 Law av
O'Leary, Arthur J. & Son Co. (Bars, Rods, Bolts, Vises, Railway & Quarry Tools, etc.), 644 W Lake
Sundberg, J. A. Co., 1030 W Kinzie
Sundberg, Kropp Co. (General Forgings), 2510 W 21st
Union Drop Forge Co., 358 W Indiana
Vulcan Iron Works, 327 N Irving av
Western Steel Car & Foundry Co. (Car & Railroad), 84 Van Buren, Chicago, Ill.
Willard Sons & Bell Co. (Axles, Railroad, etc.), 3044 98th
Wishart-Burge Machine Works (Light & Heavy), 218 N Jefferson
HARVEY—Buda Co. (See Chicago, Ill.)
MOUNT VERNON—Mount Vernon Car Mfg. Co. (R. R., etc.)
PEORIA—Armstrong, J. C. Machine & Fdry Co.

## INDIANA.

EVANSVILLE—Mesker, Geo. L. & Co. (Structural Iron)
FORT WAYNE—Bass Foundry & Machine Co. (Hammered Iron & Steel, also Car Axles,
INDIANAPOLIS—Inter-State Car Co. etc.)
INDIANA HARBOR—Standard Forgings Co. (Heavy, for Mining, Milling & Power Transmission Machinery)

## IOWA.

DES MOINES—McDonnell Boiler & Iron Wks. (Heavy)

## KENTUCKY.

LOUISVILLE—Drummond Mfg. Co. (Vehicles, Axles, etc.), 1228 W Main
Kentucky Gear & Machine Co. (Heavy)
Sheppard, S. C.
OWENSBORO—Owensboro Forging Co.

## LOUISIANA.

NEW ORLEANS—Connell, J. D. Iron Works Co. (Marine, etc.)
Swoop, Julian M. (Light & Heavy)

## MAINE.

PORTLAND—Portland Co. (Locomotive, Car, Engine, etc.)

## MARYLAND.

BALTIMORE—Baltimore Car & Foundry Co. (Iron & Steel, Railroad, etc.)
Cahill, W. S. Co.
National Supply Co.
CUMBERLAND—Cumberland Steel Co.

## MASSACHUSETTS.

ARLINGTON HEIGHTS—Jones Ball Co. (Small Steel, Brass, etc.)
BOSTON—Boston Forge Co. (Railroad, Marine & Electric), 340 Maverick, E. B.
Knapp, Jas. M. (Steel), 12 Bowker
McLauthlin, Geo. T. Co., 120 Fulton
Preble, Edward, 103 Sumner, E B
CAMBRIDGE—Barbour-Stockwell Co. (Light & Heavy)
EVERETT—New England Bolt & Steel Co. (All Kinds)
GLOUCESTER—Cape Ann Anchor Works
QUINCY—Fore River Ship Building Co. (Heavy)
SPRINGFIELD—Wason Mfg. Co. (For Steam Ford, H. Electric Railroads)
WORCESTER — Wyman & Gordon Co. (All Kinds)

## MICHIGAN.

BAY CITY — **MacKINNON BOILER &** Machine Co. (See adv. index, end of book)
DETROIT—**ANDERSON FORGE & MA**chine Co., Fairview. (See adv. index, end
Detroit Forging Co. (Carriage) of book)
Detroit Steel Products Co. (Steel)
Great Lakes Engineering Works (Marine,
Hayes Mfg. Co., 458 Maybury etc.)
Lauer, Jno. Mach. Co., 108 St. Antoine
Michigan Bolt & Nut Works, ft Meldrum av
JACKSON—Lewis Spring & Axle Co. (Axles, etc.)
MANISTEE—Manistee Iron Works Co. (Railroad
SAGINAW—Koehler Bros. & Heavy)
SAULT SAINTE MARIE—Hickler Bros.

## MISSOURI.

ST. LOUIS—American Car & Foundry Co. (Car, Railroad & Merchant), 915 Olive
Helmbacher Forge & Rolling Mill Co. (All Kinds for R. R., Steamboat & Machinery)
Moran Bolt & Nut Mfg. Co. (Car)
Reuter-Jones Mfg. Co. (Mill Machinery, etc.)
Roth, B. Tool Co. (Light), 2122 Chouteau av

## MONTANA.

BUTTE—Western Iron Works

## NEBRASKA.

OMAHA—Paxton & Vierling Iron Works

## NEW HAMPSHIRE.

LAKEPORT—Cole Mfg. Co. (Light & Heavy)

## NEW JERSEY.

BORDENTOWN—Bordentown Forge & Machine Co.
CAMDEN—Camden Forge Co. (Railway Forg
CHROME—Chrome Steel Works ings)
HIGH BRIDGE—Taylor Iron & Steel Co. (Car & Locomotive Axles, Shafts, etc.)
HOBOKEN—Consolidated Iron Works
New York Switch & Crossing Co. (Railroad)
Union Iron Works (Light & Heavy)
JERSEY CITY—Cockburn Co.
Smith, Theo. & Sons Co. (Heavy), ft of
NEWARK—Currier, Cyrus & Sons Essex
Hewes & Phillips Iron Works
Strieby & Foote Co. (Carriage, Bicycle & Auto, etc.)
NEW BRUNSWICK—New Brunswick Iron Wks
PATERSON—Douglass, Edward
WHITEHALL—Bordentown Forge & Machine Co. (Heavy Marine, etc.)

## NEW YORK.

ALBANY—Townsend Furnace & Machine Shop Co.
AUBURN—Clapp, E. D. Mfg. Co. (Carriage, Eccles, Richard Co. etc.)
BATAVIA—Baker Gun & Forging Co. (Gun)
Chapin, R. E. Mfg. Works (Galvanized)
BUFFALO—Brennan, Richard
De Laney Forge & Iron Co., 300 Perry
General Drop Forge Co., 1738 Elmwood av
Lake Erie Engineering Works (Heavy)
Sizer Forge Co. (Locomotive, Iron & Steel Drawing Axles & Marine Engine)
Vulcan Steam Forge Co.
Wurtz & Son (Railroad & Boiler), 23 Lloyd
CORTLAND—Cortland Forging Co. (Carriage)
ENDICOTT—White, L. S. Forging Co.
HILLBURN—Ramapo Iron Works (Railroad,
NEWBURGH—Turl's, Jno. Sons (Inc.), etc.)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—**BLISS, E. W. CO., 19 Adams,** (See adv. index, end of book)
Columbia Engineering Works (Marine), c Pioneer & Imlay
Columbia Machine Works & Malleable Iron Co. (Light & Heavy), 269 Chestnut
Fulton Foundry & Machine Works (Machinery, etc.), 23 Furman
Gill, Phil. H. & Sons (Forging & Piping), Lorraine & Otsego
Hay-Budden Mfg. Co. (Dies, Weldless Rings, Spinning Chucks), 254 N Henry
**MERRILL BROS.** (See Maspeth, Borough of Queens, New York.) (See adv. index, end of book)
Williams, J. H. & Co., 150 Hamilton av,

### Boroughs of Manhattan & Bronx.

NEW YORK—American Forge & Iron Co., 140 W 42d
American Car & Foundry Co. (Car, Railroad & Merchant), 165 Broadway
**AMERICAN SPIRAL PIPE WKS.** (of Chicago), 50 Church. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE** Co. (Heavy Plate & Structural Work), 82 Warren. Works: Niagara Falls, N. Y. (See adv. index, end of book)
**FRASSE, PETER A. & CO. (Steel** Only), Canal & Sullivan. (See adv. index, end of book)
Gould Coupler Co. (Car Couplers, etc.), 345 5th av
Greenlie, Wyatt & Co. (Heavy & Light), 499 Water
McDougall & Potter Co. (Inc.), 606 W 55th
**NEWHALL CHAIN, FORGE & IRON** Co., 90 West
Philadelphia Steel & Forge Co. (All Kinds), 50 Church; Works: Tacony, Phila., Pa.
Treadwell, M. H. Co., 90 West
Turl's, Jno. Sons (Inc.), 26 Cortlandt. Works: Newburgh, N. Y.
Watson, Thos., 551 W 35th

### Borough of Queens.

MASPETH— **MERRILL BROS., 5 Wil**liam (See adv. index, end of book)

**(End of New York City)**

NIAGARA FALLS—**DOBBIE FOUNDRY & Machine Co. (Heavy Plate & Structural Work). (See adv. index, end of book)**
Ramapo Iron Works (Railroad, etc.)
OGDENSBURG—Nash Bros. & Co. (Steam
SYRACUSE—Halcomb Steel Co. Forging)
UNION—Union Forging Co. (Carriage, etc.)
UTICA—Mott Wheel Works (Carriage & Bike Wagon)

## OHIO.

AKRON—Akron Selle Co. (Wagon)
ALLIANCE—Transue & Williams Co. (General)
CANAL DOVER—Dover Forge & Iron Co.
CINCINNATI—Block-Pollak Iron Co. (Railroad, etc.), Carthage
Queen City Forging Co. (For Carriage Builders, etc.), Dumont & Tennyson
Talbott, C. R. Co., Wiggins blk
Winkelman, Louis & Co., 209 Lawrence
CLEVELAND—American Ship Building Co. (Heavy, Marine, etc.)
Avery Stamping Co. (Steel)
Champion Machine & Forging Co. (Upsetting Special Machine & Hammer Forgings)
**CLEVELAND CITY FORGE &** Iron Co. (Heavy, etc.) (See adv. index, end of book)
Cleveland Hardware Co. (Steel Forgings for Vehicles)
Cleveland Machine & Mfg. Co.
**CLEVELAND PUNCH & SHEAR** Works Co. (See adv. index, end of book)
Crucible Steel Forge Co. (Dies & Die Tempering, Shaft Cranks, etc.)
Dyson, Jos. & Sons (For Machine Tools, including Spindles, Shafts, Gear Blanks,
Forest City Electric Co. etc.)
**GLOBE MACHINE & STAMPING** Co., 3900 Hamilton av, N. E. (See adv. index, end of book)
Horsburgh Forging Co., 5114 Hamilton
Lake Erie Forge Co.
Machinery Forging Co.
Ohio Forge Co. (Automobile, Machine, etc.)
Ohio Machine & Boiler Co., 1201 W 11th, N W
Otis Steel Co. (Steel Only, Locomotive, Car, etc.)
Park Drop Forge Co. (Open Hearth, Crucible & Alloy Steel)
COLUMBUS—Columbus Anvil & Forging Co.
Columbus Bolt Works (Carriage, etc.)
Columbus Forge & Iron Co. (Heavy & Light Forgings in Multiples)
Hayden-Corbett Chain Co. (Light & Heavy)
DAYTON—Plocher, Andrew
FREMONT—Herbrand Co. (Carriage, etc.)
NILES—Niles Forge & Mfg. Co.
SANDUSKY—Klotz Machine Co. (Heavy)
TOLEDO—Heartley Machine, Variety Iron & Tool Works (Punch & Die)
Toledo Foundry & Machine Co.
Toledo Machine & Tool Co.
YOUNGSTOWN—Youngstown Forge Co.

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## PENNSYLVANIA.

ALIQUIPPA—Vulcan Crucible Steel Co.
BRACKENRIDGE—Western Tool & Forge Co. (Air Brake, Car, Wagon, etc.)
BRADDOCK—Pittsburg Steel Shafting Co. (Forged Steel Power Transmission Goods)
BRAEBURN—Braeburn Steel Co. (Steel Only)
BURNHAM—Standard Steel Works (Steel Locomotive)
BUTLER—Kesselman & Co. (Heavy)
Larkin & Co.
CATASAUQUA—Lehigh Car Wheel & Axle Works (Railroad, etc.)
CONNELLSVILLE—Connellsville Machine & Car Co. (Light & Heavy)
CORRY—McInnes Steel Co. (Ltd.) (Machinery & Tool Steel Shapes Forged to Order)
EDDYSTONE—Tindel-Morris Co. (Steel only, Crankshaft & Finished Forging)
ELLWOOD CITY—Ellwood City Forge Co. (Crankshafts, Connecting Rods, Die Blocks, etc.)
Steel Car Forge Co. (Car & Locomotive)
Tindel-Morris Co. (Steel Only, Crankshafts & Finished Forgings)
ERIE—**BAY CITY FORGE CO. (Shapes** of all Kinds, Rolls, etc.) (See adv. index, end of book)
Erie Car Works (Car, etc.)
Erie Forge Co. (Ltd.) (Engine, Crankshafts, Connecting Rods, etc.)
ETNA—Etna Forge & Bolt Co.
HARRISBURG—Harrisburg Foundry & Machine Works
JOHNSTOWN—Cambria Steel Co. (Steel Car & Lorain Steel Co. (Steel) General Heavy)
LANCASTER—Penn Iron Co. (Car, etc.)
LEBANON—American Iron & Steel Mfg. Co.
Treadwell, M. H. Co. (Car, etc.)
McKEESPORT — Firth-Sterling Steel Co. (Crucible Open Hearth)
MECHANICSBURG—Wilcox. D. Mfg. Co. (Carriages & Speical of All Kinds)
MILLERSBURG—Millersburg Fifth Wheel Co. (Light)
MILTON—Milton Mfg. Co. (Shafting, Crankshafts, etc.)
MONONGAHELA—Liggett Spring & Axle Co. (Buggy & Wagon Axles, etc.)
NEW CASTLE—New Castle Forge & Bolt Co. (Car, Mine, Agricultural, etc.)
OAKMONT—Crescent Forging Co.
PHILADELPHIA—Ashman, S. A. & Son Co., 235 Cherry
Brill, J. G. Co. (For Steam & Electric Railroads), 62d & Woodland av
Cramp, Wm. & Sons Ship & Engine Bldg. Co. (Marine, etc.)
Cresson. Geo. V. Co., Allegheny av W of 17th
**GRISCOM-SPENCER CO., ft. Washington** av. (See adv. index, end of book)
Hoopes & Townsend Co. (Car, etc.), 1330 Buttonwood
Illingworth, John Steel Co. (Crucible Open Hearth Steel), Frankford
Midvale Steel Co. (Marine, Locomotive, Car, Gun, etc., of Steel Only), Nicetown
National Bolt Works (Structural, etc.), 1630 N 9th
Penna. Steel Co. (Medium & Heavy Steel), 1421 Chestnut
Philadelphia Steel & Forge Co., Tacony. (See New York)
Phoenix Iron Co., 410 Walnut
Standard Steel Works (Steel Locomotive) Harrison bldg
Stortz, Jno. & Son (Small), 210 Vine
Tioga Steel & Iron Co., 52d & Gray's av
PHOENIXVILLE—Phoenix Iron Co. (Heavy)
PITTSBURG—Albree, Chester B. Iron Works, North Side
Allegheny Forging Co., Frick bldg.
Carbon Steel Co. (Axles, Crank Pins, Piston Rods, etc.), 32d & Smallman
Carnegie Steel Co. (Steel Only)
Carter Iron Co. (Hooks & Forgings for Chains, etc.)
Colonial Steel Co. (Rough or Rough Turned Crucible & Open Hearth Steel)
Crucible Steel Co. of America (Steel Only of All Kinds)
**FAWCUS MACHINE CO., 2820** Smallman. (See adv. index, end of book)
Fort Pitt Forge Co. (Rods, Bolts, Rivets, etc.)
Harris, Wm. & Son Co. (Mine, etc.), N. S., Pittsburg, Pa.
Heppenstall Forge & Knife Co. (Automobile, Gas Engine & Miscellaneous)
Jones & Laughlin Steel Co.
Kro-Van Steel Co. (Tool Steel)
Lanz, M. & Sons, 2907 Carson
McKay, Jas. Co. (Light Forgings: also Railroad Forgings). Works: McKees Rocks, Pa.
**OIL WELL SUPPLY CO., 215** Water. (See adv. index, end of book)
Pittsburg Forge & Iron Co. (Car, Locomotive & Marine)
Pittsburg Rivet Co. (Rivets, Bolts, etc.),
Pittsburg Screw & Bolt Co. 38th & R. R.
Pittsburg Steel Mfg. Co. (Wrought)
**SCAIFE, WM. B. & SONS CO., 221** 1st av. (See adv. index, end of book)
Steel Car Forge Co. (For Cars of All Kinds)
RANKIN—(See Pittsburg)
READING—American Iron & Steel Mfg. Co. (Car, etc.)
Carpenter Steel Co. (Steel & Gun)
Illingworth, Jno. Steel Co. (See Phila. Pa.)
Reading Iron Co. (Heavy Marine Engines, etc)
SHAMOKIN—Mullen, Jno. & Son (Mine, etc.)
SOUTH BETHLEHEM—Bethlehem Steel Co. (Heavy of all Kinds)
STEELTON—Penna. Steel Co. (Heavy Steel)
TITUSVILLE—Titusville Forge Co. (Light & Heavy, Shapes of Every Description & Roll Forgings, etc.)
VERONA—Valley Forging Co. (Car & Special)
WAYNESBORO—Frick Co.
WILKES-BARRE—American Forge & Iron Co.
Sheldon Axle Co. (Axles)
Vulcan Iron Works

## RHODE ISLAND.

PROVIDENCE—Rhode Island Tool Co. (For the Trade)

## SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works (Mach. & Marine)
Riverside Iron Works (Marine, etc.)

## TENNESSEE.

CHATTANOOGA—Chattanooga Car & Foundry Co.
KNOXVILLE—Knoxville Foundry & Machine Co. (Heavy)

## TEXAS.

DALLAS—Mosher Mfg. Co. (Heavy)
HOUSTON—Bayou City Iron Works (Heavy)
Houston Car Wheel & Machine Co. (Heavy)

## VIRGINIA.

NORFOLK—Godwin, Thos. W. & Co. (Marine,
RICHMOND—Cameron Stove Co. etc.)
Old Dominion Iron & Nail Works Co. (Buildings & Small Specials)
Richmond Forging Corporation
Tredegar Co. (Car & Machiney)

## WASHINGTON.

SEATTLE—Jones, C. C. & Co. (R. R. & Marine)
Moran Co. (Marine, etc.)

## WISCONSIN.

MILWAUKEE — Obenberger Drop Forge Co. (Crankshafts, Gear Blanks, Connecting Rods, etc.)
Wisconsin Bridge & Iron Co.

## 3783—Forgings (Liquid Compound)

Bethlehem Steel Co., South Bethlehem, Pa.

## 3784—Forgings (Manganese Bronze)

American Manganese Bronze Co., 99 John, New York
Cramp, Wm. & Sons Ship & Engine Bldg. Co., Phila., Pa.
Detroit Steel Products Co., Detroit, Mich.
General Drop Forge Co., Buffalo, N. Y.
Wyman & Gordon Co., Worcester, Mass., & Cleveland, O.

## 3785—Forgings (Nickel Steel)

American & British Mfg. Co., Bridgeport, Conn.
**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
Bethlehem Steel Co., South Bethlehem, Pa.
Billings & Spencer Co., Hartford, Conn.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Columbus Forge & Iron Co., Columbus, O.
Crescent Forgings Co., Oakmont, Pa.
Crucible Steel Co. of America, Pittsburg, Pa.
De Laney Forge & Iron Co., Buffalo, N. Y.
Detroit Steel Products Co., Detroit, Mich.
Funk Engineering Co. (German Nickel Chrome Steel), Hoboken, N. J.
General Drop Forge Co., Buffalo, N. Y.
Heppenstall Forge, Co., Bridgeport, Conn.
Keystone Drop Forge Co., Chester, Pa.
Midvale Steel Co., Nicetown, Phila., Pa.
Moore Drop Forge Co., Springfield, Mass.
Page-Storms Drop Forge Co., Springfield, Mass.
Richmond Forgings Corporation, Belle Isle, Richmond, Va.
Seward, M. & Sons Co., New Haven, Conn.
Sizer Forge Co., Buffalo, N. Y.
Sundberg, Kropp & Co., 2512 W 21st, Chicago, Ill.
Tindel-Morris Co., Eddystone, Pa., & Ellwood City, Pa.
Tioga Steel & Iron Co., 52d & Grays av, Phila.,
Union Drop Forge Co., 64 Ohio, Chicago, Ill. Pa.
Vulcan Steam Forging Co. (Chrome), Buffalo,
Warren Axle & Tool Co., Warren, Pa. N. Y.
Yuba Construction Co., Marysville, Cal.

## 3786—Forgings (Seamless Steel)

**BLISS, E. W. CO. (Bowls, Bottles &** Special Shapes), 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Carpenter Steel Co., Reading, Pa.

## 3787—Forgings (Telegraph & Telephone Pole)

Heppenstall Forge, Co., Bridgeport, Conn.
McKay, Jas. Co., Pittsburg, Pa.; Works, McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.

## 3788—Forgings (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 3788a— Forks (Alfalfa)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 3789— Forks (Ballast)

American Fork & Hoe Co., Cleveland, O.
American Shovel & Stamping Co., Lorain, O.
Beall Bros. (Inc.), Alton, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hubbard & Co., Pittsburg, Pa.
Iowa Farming Tool Co., Fort Madison, Ia.
Union Fork & Hoe Co., Columbus, O.
Wallingford Mfg. Co., Wallingford, Vt.

## 3790— Forks (Brake)

Dayton Malleable Iron Co. ("The Kelly"), Dayton, O.

## 3791— Forks (Coke)

American Fork & Hoe Co., Cleveland, O.
American Shovel & Stamping Co., Lorain, O.
Ames Shovel & Tool Co., Ames bldg, Boston, Mass.
Beall Bros. (Inc.), Alton, Ill.
Union Fork & Hoe Co., Columbus, O.
Wallingford Mfg. Co., Wallingford, Vt.

## 3792— Forks (Fish)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)

## 3793— Forks (Hand)

American Fork & Hoe Co. (Coal, Coke, Beet, Barley, Corn, Potato, Straw, Stone, Stable, Tanner, Manure, Header, Hay, Sluice, Spading, Vegetable, Scoop, etc.), Cleveland, Ohio
American Shovel & Stamping Co., Lorain, O.
Hill, Edwin (Spading), Plainville, Conn.
Iowa Farming Tool Co., Ft. Madison, Iowa
Peck, Clark & Co., Brookfield, Vt.
Union Fork & Hoe Co. (Grain, Hay, Manure, Coke, Coal, Stone, Sluice, Ensilage, Spading, Header, Barley, Beet, Potato Digging, Tanners, etc.), Columbus, O.
**WHITMAN & BARNES MFG. CO.** (Hay), Akron, O. (See adv. index & branch offices, end of book)

## 3794—Forks (Hay, Derrick)

Benicia Iron Works, Benicia, Cal.
Hunt, Gilbert Co., Walla Walla, Wash.
Jackson, Byron Machine Works, San Francisco, Cal.

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Milwaukee Hay Tool Co., Milwaukee, Wis.
**MYERS, F. E. & BRO. ("Jackson" & 'California''),** Ashland, O. (See adv. index & branch offices, end of book)
Ney Mfg. Co., Canton, O.
Ohio Farmers' Hay Tool Co., Canton, O.
Porter, J. E. Co., Ottawa, Ill.
Syracuse Chilled Plow Co., Syracuse, N. Y.
**WHITMAN & BARNES MFG. CO.** Akron, O. (See adv. index & branch offices, end of book)

## 3795—Forks (Hay, Grapple & Harpoon)

(Read Explanation Following Names)
Eagle Mfg. Co. (''Eagle,'' Grapple & Harpoon), Appleton, Wis.
Farrell, Jno (''Farrell'' Grapple), Newton, N. J.
Goshen Mfg. Co. (Harpoon), Goshen, Ind.
Hunt, Helm, Ferris & Co. (Grapple & Harpoon), Harvard, Ill.
Louden Machinery Co. (Grapple & Harpoon) Fairfield, Iowa
Milwaukee Hay Tool Co. (Grapple & Harpoon), Milwaukee, Wis.
**MYERS, F. E. & BRO. ("Myers"** Double Harpoon & Grappling Harpoon, ''Harris'' Double Harpoon, ''Myers'' Grapple Fork, Automatic Grapple Forks & ''Perfect'' Automatic Grapple Forks), Ashland, O. (See adv. index & branch offices, end of book)
Ney Mfg. Co. (Grapple & Harpoon), Canton, O.
Ney, V. L. Co. (Harpoon), Canton, O.
Ohio Farmers' Hay Tool Co., Canton, O.
Porter, J. E. Co. (''Porter's Acme'' Grapple & Harpoon), Ottawa, Ill.
Ricker Mfg. Co. (''Ricker'' Grapple & Harpoon), Rochester, N. Y.
Strickler Hay Tool Co. (''Strickler'' Grapple & Harpoon), Janesville, Wis.
Swineford, G. A. Co. (''Nellis'' Walker'' Canton, O.
Syracuse Chilled Plow Co. (''Syracuse'' Grapple & Harpoon), Syracuse, N. Y.
U. S. Wind Engine & Pump Co. (''Noyes'' Grapple & Harpoon), Batavia, Ill.
**WHITMAN & BARNES MFG. CO.** Akron, O. (See adv. index & branch offices, end of book)

## 3796—Forks (Hay, Lock Lever)

Hunt, Helm, Ferris & Co., Harvard, Ill.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Porter, J. E. Co., Ottawa, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 3797— Forks (Meat)

White, Ira F. & Son Co., Bloomfield, N. J.

## 3798— Forks (Rail)

Anderson, W. H. Tool & Supply Co., 14 Macomb. Detroit, Mich.
Atha Tool Co. (Solid Cast Steel), Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works. Evansville, Ind.
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Steel), 32d & Small. Pittsburg, Pa
Lovejoy Tool Works, 355 W Ohio, Chicago, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co., (''Chesswick''), Works, Cheswick, Pa
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Verona Tool Works (Steel), Verona, Pa., & Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

## 3799— Forks (Rising)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich
Columbus Handle & Tool Co., Columbus, Ind
Dicke, C. H. Tool Co., Downers Grove, Ill.
Klein, Mathias & Sons, 562 W Van Buren. Chicago, Ill.
Nagel, W. G. Electric Co., Toledo, O.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Roberts, Geo., Pittsburg, Pa.

## 3800— Forks (Tedder)

American Shovel & Stamping Co., Lorain, O.
**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Gibson, W. D. Co., Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.
**Mason, F. C. & Co., St. Johns, Mich.**
Morgan Spring Co., Worcester, Mass., & Struthers, O.

## 3801— Forks (Trolley)

Bayonet Trolley Harp Co., Springfield, O.
Electric Railway Equipment Co., Cincinnati, O.
Erie Malleable Iron Co., Erie, Pa.
Garton, W. R. Co. (''Feist''), 108 W Jackson blvd, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Holland Trolley Supply Co., Cleveland, O.
**LUMEN BEARING CO. ("Ideal"),** Buffalo, N. Y. (See adv. index, end of book)
Meckel, Fred. L., 83 E 13th, Chicago, Ill.
New Departure Bell Mfg. Co. (''Liberty'') Bristol, Conn
**NUTTALL, R.D. CO. ("Union"), Pittsburg, Pa.** (See adv. index, end of book)
Recording Fare Register Co. (''Multi-Ampere''), New Haven. Conn
Star Brass Works (''Kalamazoo''), Kalamazoo, Mich.

## 3802— Forks (Vegetable)

Andrews Wire & Iron Works, Rockford, Ill.
Browne & Dowd Mfg. Co., Meriden, Conn.
Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Knickerbocker Mfg. Co. (Long Meat or Vegetable), Belleville, N. J.

## 3803—Forks (Wood, Barley)

Montross, R. W. (''Wolverine''), Galien, Mich.

## 3804— Formaldehyde

Cleveland-Cliffs Iron Co., Cleveland, O.
Heyden Chemical Works, Garfield, N. J.
Perth Amboy Chemical Works, Perth Amboy, N. J.
Sholes, Chas. E. Co., 164 Front, New York

## 3804a—Formers (Tie Wire)

Only Mfg. Co. (''McFatridge''), Moravia, Iowa

## 3805—Forms (Curb & Sidewalk)

Hotchkiss Lock Metal Form Co. (''Hotchkiss,'' Steel), Binghamton. N. Y.
Ublink, Joe (''Ublink,'' Adjustable All Steel), Binghamton, N. Y.
Zeiser Bros. (''Zeiser,'' Tie & Dividing Plates), Berwick, Pa.

## 3805a—Forms (Metal, for Monolithic Concrete Work)

Reichert Mfg. Co. (''Reichert''), Milwaukee, Wis.

## 3806—Forms (Sheet Metal, for Foundries)

Burdick & Son, Albany, N. Y.

## 3807—Forms (Winding, Armature & Field Coil)

(For Armature & Field Magnet Coils)
American General Engineering Co., 253 B'way, New York
Comstock, J. F. & Co., Wilkes-Barre, Pa.
Exeter Machine Works, Pittston, Pa.
Smith & Wallace, Woburn, Mass.

## 3808— Fossil Flour

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Hammill & Gillespie, 240 Front, New York
Oxford Tripoli Co. (Flour), 11 B'way, New York
Salomon, L. A. Bro., 216 Pearl, New York

## 3808a— Foundations

**RAYMOND CONCRETE PILE CO.,** 140 Cedar, New York. (See adv. index & branch offices, end of book)

## Founders (Brass)

(See Machinists & Founders marked with a §)

## Founders (Iron)

(See Machinists & Founders marked with a †)

## Founders (Malleable Iron)

(See Castings, Malleable Iron)


# Industrial Information

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**Hendricks' Commercial Register**


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### 3809— Foundry Clay

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg, Phila., Pa. Wks: Maurer, N. J. (See adv. Front Inside Cover)
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)

### 3810—Foundry Facings & Supplies

**Albany Sand & Supply Co., Albany, N. Y.**
**Brown, L. S. Charcoal Co., Springfield, Mass.**
**Brass Foundry Supply Co., Newark, N. J.**
**Buffalo Foundry Supply Co. ("Columbia" Facings, etc.), 339 Babcock, Buffalo, N. Y.**
Central Foundry Supply Co., Columbus, O.
**Cohutta Talc Co. (Cream Soapstone Facings), Dalton, Ga.**
Combined Foundry Supply Co. (J. B. Kingsland & Co., Props.), Buffalo, N. Y.
Crivel, Geo. F. & Co., Buffalo, N. Y.
Cutter-Wood Supply Co., Boston, Mass.
Detroit Foundry Supply Co., Detroit, Mich.
Dixie Foundry Supply Co., Chattanooga, Tenn.
**DIXON, JOS. CRUCIBLE CO. (Facings, etc.), Jersey City, N. J.** (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY (Soapstone** Foundry Facings), 101 Beekman, New York. (See adv. index, end of book)
Donald, Henry R. Sales Co., Milwaukee, Wis.
Elliott, Benj. G. (Facings), San Francisco, Cal.
**Etting, Edw. J. (Mfrs.' Agt.), Phila., Pa.**
**Federal Foundry Supply Co. ("Bright's" Steel Facings, etc.), Cleveland, O.**
Gartside, W. N., Richmond, Ind.
Gautier, J. H. & Co. (Graphite). Jersey City, N. J.
Hill & Griffith Co., Cincinnati, O.
Hoosier Supply Co., Indianapolis, Ind.
**Ilsley, Doubleday & Co. (Facings, etc.), 229 Front, New York**
**International Pulp Co. ("Talc Facings"). 41 Park row, New York**
Jackson, E. S. & Co. (Facings & Supplies). 224 E 2d, Cincinnati, O.
Jones, Enos F. Chemical Co. (Facings, etc.), 51 Jay, New York
Kelly, Thos. P. & Co. (Ceylon Plumbago, Black Lead, Prepared Charcoal, etc.), 544 W 22d, New York
McCormick, J. S. Co., Pittsburg, Pa.
**Metal Mfg. Co. (Facings & Supplies), 25th & Dickinson, Phila., Pa.**
**Midvale Mining & Mfg. Co., St. Louis, Mo.** Works: East St. Louis, Ill.
National Supply Co., 1630 Market, Phila., Pa.
**N. Y. Sand & Facing Co. (Facings, Sand, etc.) 106 Grand, Brooklyn, N. Y.**
Obermayer, S. Co. (Facing, etc.), Cincinnati, O.
**OSBORN MFG. CO. (Brushes & Supplies),** 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Pacific Tool & Supply Co. (Supplies), San Francisco, Cal.
**Pangborn, Thos. W. Co., 90 West, New York**
**Paxson, J. W. & Co. (Facings & Supplies), 1021 N Delaware av, Phila., Pa.**
Pettinos Bros., Bethlehem, Pa.
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N. W., Cleveland, O. (See adv. index, end of book)
**SPRINGFIELD FACING CO. (Facings** & General Supplies), Springfield, Mass. (See adv. index, end of book)
Squier, Ed. E. Co. (Sand), St. Louis, Mo.
Stevens, Frederic B. (Facings, Brick, Sand, etc.), 3d av & Larned, Detroit, Mich.
Steward, D. M. Mfg. Co. (Facings Only), Chattanooga, Tenn.
United States Graphite Co. (Facings), Saginaw, Mich.
Wainwright, Jno. C. A. (Facings Only), Spring City, Pa.
Whitehead Bros. & Co. (Facings, etc.), 537 W 27th, New York


**When writing to firms whose names appear in this book please mention**
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### 3811—Foundry Plant Equipments

Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)


**FOUNDRY EQUIPMENT**
LIGHT, HAND AND POWER CRANES, TRACK LADLES, TRUCKS, ETC.
**DETROIT HOIST & MACHINE CO**
DETROIT, MICH.


Etting, Edward J. (Mfrs. Agent), Land Title bldg, Phila., Pa.
Heyl & Patterson, Pittsburg, Pa.
Hill & Griffith Co., Cincinnati, O.
Monarch Engineering & Mfg. Co., Baltimore, Md.
Nicholls, Wm. H. ("Mfrs. Aegnt"), 30 Church, New York


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Obermayer, S. Co., 647 Evans, Cincinnati, O.

**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)

**Paxson, J. W., Co., 1021 Delaware av, Phila.,**

Sly, W. W. Mfg. Co., Cleveland, O. Pa.

**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

Stevens, Frederic B., Detroit, Mich.

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3811a—Foundry Sprinklers (Steel)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)

## 3812—Fountain Pen Mfrs.

Adams, Cushing & Foster, Boston, Mass.

Aikin-Lambert Co. (Gold), 19 Maiden la, New

Autofiller Pen Co., Toledo, O. York

Beaumel, D. W. & Co., 35 Ann, New York

Betzler & Wilson, Akron, O.

Blair's Fountain Pen Co., 6 John, New York

**BLANCHARD BROS., Inc. (Advertising),** 308 Main, Davenport, Ia. (See adv. index, end of book)

Caw's Pen & Ink Co. (Fountain, Gold, Stylographic, Mfrs. of Caw's "Safety" Fountain Pen), 46 Vesey, New York

Century Pen Co., Whitewater, Wis.

Colonial Fountain Pen Co., 413 E Balto, Baltimore, Md.

Conklin Pen Mfg. Co. ("Conklin's, Self-Filling), Toledo, O.

Cross, A. F. (Gold), 53 Warren, Providence R. I.

Diamond Point Pen Co. (Fountain, Gold, Stylographic, Gold Plated), 86 Fulton, New York

Eagle Pencil Co. (Fountain, Gold, Steel, Stylographic), 377 Broadway, New York

Faber, Eberhard (Gold, Fountain), 190 Fifth av, New York

Faber, Dr., Self-Filling Pen Co., Toledo, O.

Franklin Fountain Pen Co., 51 N 10th, Phila., Pa

Foley, Jno. Jr. (Fountain, Stylographic), 225 B'way, New York

Frazer & Geyer Co., 22 Thames, New York

Greishaber, G. & Co. (Gold), 86 State, Chicago, Ill.

Heath, Geo. W. & Co., 380 Canal, New York

Hillinger, R. J. & Co., 131 Wabash av., Chicago, Ill.

Holland, Jno. Gold Pen Co. (Gold), Cincinnati, O.

Laughlin Mfg. Co., Detroit, Mich.

Mabie, Todd & Co. (Gold), 209 State, Chicago,

Modern Pen Co., 22 Thames, New York Ill.

Onoto Pen Co. ("Onoto" Self-Filling Non-Leakable), 261 B'way, New York

Parker Pen Co., Janesville, Wis.

Philadelphia Novelty Mfg. Co., 13th c Noble, Phila., Pa.

Sanford & Bennett, 51 Maiden la, New York

Smith, H. B. Fountain Pen Co., Janesville, Wis.

Ullrich, J. & Co. (Fountain, Stylographic), 27 Thames, New York

Waterman, A. A. & Co., 22 Thames, New York

Waterman, L. E. & Co., 173 Broadway, New York

Weidlich & Simpson (Stylographic), Nevada bldg, Cincinnati, O.

Welty, Wm. A. Co. ("Welty" Self-Filling & No Leak), Waterloo, Ia.

Whitney-Richards Co. ("Whitney"), Cincinnati,

Williamson Pen Co., Janesville, Wis. Ohio

Wirt, Paul E., Bloomsburg, Pa.

## 3813—Fountains (Drinking, Sanitary)

Aird-Don Co. (Porcelain), Troy, N. Y.

American Sanitary Fountain Co. ("Myeni"). Indianapolis, Ind.

Anti-Germ Drinking Fountain Co. ("Anti-Germ" Bubbling, Operated by Foot Power), Boston, Mass.

Ashton Valve Co. ("Ashton," Attached to Sink or Bowl), Boston, Mass.

Barrett, James Mfg. Co. ("Purity," Self-Closing Bubbling), Boston. Mass.

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)

**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

Camden Pottery Co. (Vitreous China), Camden, N. J.

Clow, Jas. B. & Sons ("Adamantose" & "Hygeia," Self-Closing Bubbling), Chicago, Ill.

Crane Co. (Est. 1855) (Porcelain, Porcelain Enameled, Vitreous China, etc.), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Day-Ward Co. (Porcelain Enameled), Warren, O.

Douglas, John, Co. (Vitreous China), Cincinnati, O.

Du Bois, F. N. & Co. (Porcelain), 243 9th av, New York

Federal-Huber Co. (Porcelain), Halsted & Federal, Chicago, Ill., & 244 5th av, New York

Haines, Jones & Cadbury Co. (Porcelain & Porcelain Enameled), 1140 Ridge av., Phila., Pa.

Hammett, J. L. Co. ("Universal," Attached to Sink or Bowl), Boston, Mass.

Knott, L. E. Apparatus Co. ("Keith" Automatic Bubbling), Boston, Mass.

Kohler's, J. M. Sons Co. ("Minnehaha" Porcelain Enameled Iron, Automatic or Continuous Flow), Sheboygan, Wis.

McDonald, A. Y. Mfg. Co. (Porcelain Vitreous China, etc.), Dubuque, Ia.

Maddock's, Thos. Sons Co. ("Maddock's Vitreous China Bubbling), Trenton, N. J.

March-Tenney Co. ("Natural Spring" Bubbling, Attached to Sinks, etc.), Muskegon H'gts, Mich.

Meyer-Sniffen Co. (Porcelain), 11 W 36th, New York

Monument Pottery Co. (Porcelain), Trenton, N. J.

Mott, J. L. Iron Works ("Crystal Stream" & "Purita" Self-Closing Bubbling; Porcelain, Porcelain Enameled, Vitreous China, etc.), 118 5th av, New York

Myers & Mahoney Plumbing Co. ("Mahoney" Self-Closing Bubbling, Attached to Sink, etc.), Portland, Me.

Nelson, N. O. Mfg. Co. ("Nelson" Self-Closing Bubbling, Solid Porcelain, etc.), St. Louis, Mo.

Resolute Pottery Co. (Porcelain), Trenton, N. J.

Rundle-Spence Mfg. Co. ("Rundle-Spence" Solid Porcelain, Self-Closing Bubbling, etc.), Milwaukee, Wis.

Sanitary Earthenware Specialty Co. (Vitreous China), Trenton, N. J.

Sanitas Mfg. Co. ("Sanitas" Bubbling. Attached to Sink, etc.; also Porcelain, Porcelain Enameled, etc.), Boston, Mass.

**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)


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Springfield Sanitary Drinking Fountain Co. ("Springfield" Automatic Bubbling), Chicopee, Mass.
Standard Sanitary Mfg. Co. (Porcelain Enameled), Pittsburg, Pa.
Tobey, S. B. ("Hamrick-Tobey" Bubbling, Attached to Sink or Bowl), Wausau, Wis.
Trenton Potteries Co. ("Waldo, Jr." Porcelain & Vitreous China Pedestal, Syphons Automatically), Trenton, N. J.
Walker Mfg. & Supply Co. (Porcelain), Detroit, Mich.
Wolff, L., Mfg. Co. (Porcelain, Porcelain Enameled, etc.), 601 W Lake, Chicago, Ill.

## 3815—Fountains (Soda Water)

Acorn Brass Mfg. Co., Aurora, Ill.
American Soda Fountain Co., Boston, Mass.
Best, T. A. Mfg. Co., Peoria, Ill.
Bishop-Babcock-Becker Co., Cleveland, O.
Chicago Fountain Soda Water Co., 1140 W Harrison, Chicago, Ill.
Chicago Soda Fountain Co., 153 N Jefferson, Chicago, Ill.
Combination Fountain Co., Decatur, Ill.
Cox Brass Mfg. Co., Albany, N. Y.
Decatur Fountain Co., Decatur, Ill.
Fountain Specialty Co. ("Guarantee" Iceless), Grand Haven, Mich.
Green, Robt. M. & Sons, 1421 Vine, Phila., Pa.
Lippincott, A. H. & F. H., 925 Filbert, Phila., Pa.
Liquid Carbonic Co., 420 Wells, Chicago, Ill.
Loeber, H. G. Co. (Iceless), 151 E 126th, New York
Puffer Mfg. Co., Boston, Mass.
Storandt, J. W. Mfg. Co., Rochester, N. Y.
Symonds & Poor Carbonator Co. ("Paragon"), Boston, Mass.
Walrus Mfg. Co., Decatur, Ill.

## 3816— Fountains (Stock)

Bushnell Tank Works, Bushnell, Ill.

## 3817—Fountains, Vases, Etc.

Badger Wire & Iron Co., Milwaukee, Wis.
**Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.**
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Cahill Iron Works, Chattanooga, Tenn.
**Carr, Jas. W.** (Iron Benches & Vases), Richmond, Va.
Casey-Hedges Co., Chattanooga, Tenn.
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Cheney, S. & Son (Vases Only), Manlius, N. Y.
Cincinnati Mfg. Co. (Vases, etc.), 1243 W 6th, Cincinnati, O.
Cincinnati Iron Fence Co., Cincinnati, O.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Concord Foundry & Machine Co., Concord, N. H.
Creswell, S. J. Iron Works Co., 23d & Cherry, Phila., Pa.
**DARBY, EDW. & SONS, 239 Arch,** Phila., Pa. (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**Eagle Iron Works (Inc.), 850 De Kalb av, Brooklyn, N. Y.**
Enterprise Foundry & Fence Co., Indianapolis, Ind.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
Fiske, J. W. Iron Works, 56 Park pl, New York
Hennecke, C. Co. (Iron & Terra Cotta Vases), Milwaukee, Wis.
Hinderer, C. A. F., New Orleans, La.
Hitzeroth, Edward, 3124 Market, Phila., Pa.
Humphrey Machine Co., Keene, N. H.
**Illinois Iron & Bolt Co.** (Vases, Hitching Posts, etc.), Carpenterville, Ill.
Illinois Malleable Iron Co. (Drinking Fountains), 1801 Diversey boul, Chicago, Ill.
Jones, M. D. & Co., 73 Portland, Boston, Mass.
Kramer Bros. Foundry Co., Dayton, Ohio
Love, M. A. Mfg. Co. (Vases Only), Rockford, Ill.
McCrum-Howell Co. (Enameled Drinking Fountains), 103 Park av, New York
McDonald Bros. (Vases, Settees, etc.), Columbus, O.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Middleby Oven Mfg. Co., 769 W Adams, Chicago, Ill.
Mott, J. L. Iron Works, 118 5th av, New York
Novelty Iron Works (Automatic Fountains for Stock), Sterling, Ill.
Northwestern Foundry, Minneapolis, Minn.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smyser, Roger Co., York Pa., & Baltimore, Md.
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Southard-Robertson Co. (Cast Iron Lawn Vases), 257 Water, New York
Stewart Iron Works Co. (Lawn & Drinking Fountains), Cincinnati, O.
Stewart & Stevens Iron Works, 9th c Montgomery av, Phila., Pa.
Superior Iron Works Co. (Horse Drinking Fountains), Superior, Wis.
Swett, A. L. Iron Works (Vases, Fountains, etc.), Medina, N. Y.
**TAYLOR & DEAN, Penn av. & 25th, Pittsburg, Pa.** (See adv. index, end of book)
Van Dorn Iron Works Co. (Iron Vases), 2685 N 79th, Cleveland, O.
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
Walbridge & Co., Buffalo, N. Y.
Washington Iron Works, Buffalo, N. Y.
**Westervelt, A. B. & W. T., 102 Chambers, New York**

## 3818— Founts (Chicken)

Delphos Mfg. Co., Delphos, O.

## 3819— Founts (Lamp)

**Benedict & Burnham Mfg. Co.** (Metal), Waterbury, Conn.
Bradley & Hubbard Mfg. Co. (Metal), Bridgeport, Conn.
**Bridgeport Brass Co.** (Metal, Decorated), Bridgeport, Conn.
Bristol Brass Co. (Metal), Bristol, Conn.
Consolidated Lamp & Glass Co. (Glass), Coraopolis, Pa.
Gillinder & Sons (Inc.) (Glass, Decorated), Phila., Pa.
Hammer & Co. (Malleable Iron), Branford, Conn.
Ireland & Matthews Mfg. Co. (Metal), Detroit, Mich.
**Miller, Edw. & Co.** (Decorated), Meriden, Conn.
Phoenix Glass Co. (Glass), Pittsburg, Pa.
**Sneath Glass Co. (Glass), Hartford City, Ind.**

## 3820—Frames (Automobile, Pressed Steel)

American & British Mfg. Co., Providence, R. I. & Bridgeport, Conn.
Detroit Pressed Steel Co. ("Presteel"), Detroit, Mich.
Driggs-Seabury Ordnance Corpn., Sharon, Pa.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hydraulic Pressed Steel Co., Cleveland, O.
Kinsey Mfg. Co. ("Kinwood"), Toledo, O.
Parish Mfg. Co., Reading, Pa.
Parish & Bingham Co. (Cold Pressed), Cleveland, O.
Shunk Mfg. Co., Bucyrus, O.
Smith, A. O. Co., Milwaukee, Wis.
Standard Pressed Steel Co., N 20th c Clearfield, Phila., Pa.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 3821—Frames (Card Drawer)

Russel & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 3821a—Frames for Concrete Beams & Girders

American System of Reinforcing ("Unit"), 218 Lasalle, Chicago, Ill.

## 3822—Frames (Galvanizing & Tinning)

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

## 3822a— Frames (Head)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3823—Frames (Soapmakers')

Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Houchin-Aiken Co., 37 53d, Brooklyn, N. Y.
Nunning, Frank, & Son, 215 W 2d, Cincinnati, O.
Sowers Mfg. Co., Buffalo, N. Y.

## 3824—Frames (Suit Case)

Independent Steel Co. of America, Kenova, W. Va.

## 3825—Frames (Wood Saw)

Berlin Machine Works, Beloit, Wis.
**FAIRBANKS, MORSE & CO. (With Arbors), Franklin & Munroe, Chicago, Ill.** (See adv. index & branch offices, end of book)

## 3826—Frames & Cylinders (Soldering Tin Can)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 3827—Freezers (Ice Cream, Etc.)

Abbott Mfg. Co., Omaha, Neb.
Alaska Freezer Co. ("Alaska," "North Pole"), Winchendon, Mass.
Cardington Cabinet Co. ("Crystal"), Cardington, O.
Confectioners' & Bakers' Supply Co., 11 E Illinois, Chicago, Ill.
Consolidated Mfg. Co. (Glass), Hartford, Conn.
**Creamery Package Mfg. Co.** (Disc, Continuous), 61 W Kinzie, Chicago, Ill.
Dana Mfg. Co. ("Dana Peerless," "Polar," "Frezo"), Cincinnati, O.
Dairy Machinery & Construction Co. ("Progress," Brine), Derby, Conn.
Dazey Churn Mfg. Co. ("Dazey," Glass Jars), St. Louis, Mo.
Hilbert Machine Co. (Power), Cincinnati, O.
Houchin, Thos. W. Co. ("Glacier"), 318 B'way, New York
Kingery Mfg. Co. (Power & Hand), 106 E Pearl, Cincinnati, O.
Lang, Henry G., 172 N May, Chicago, Ill.
Maag, August Co., Baltimore, Md.
Miller Pasteurizing Machine Co. ("Miller"), Canton, O.
Mills, Thomas & Bro. ("Monitor"), 3108 N 4th, Phila., Pa.
New England Enameling Co. ("Ideal" Automatic), Middletown, Conn.
North Bros. Mfg. Co. ("Shepard's Lightning," "Gem," Blizzard," "American Twin"), Lehigh av & American, Phila., Pa.
Reid & Son Mfg. Co. ("Champion"), 527 Smith, Brooklyn, N. Y.
Richmond Cedar Works ("Snow-Ball," "Steel Frame"), Richmond, Va.
Smith, H. D. & Co. ("Double-Delight"), Plantsville, Conn.
**SMITH & HEMENWAY CO. ("Polar Star"),** 150 Chambers, New York. (See adv. index, end of book)
Sturges & Burn Mfg. Co., 508 Green, Chicago, Ill.
Tate, Wm. J. (Est. of), 3520 Mercer, Phila, Pa.
Thomas-Peter Co. ("Little Dandy," One and Two Quarts), Canton, O.
Thompson, Emery Machine & Supply Co. "Emery Thompson" Brine Freezer), 1 Madison av, New York
Universal Hardware Works (Inc.) ("M. A. Rollman's New Standard"), Mount Joy, Pa.
Walker Ice Cream Co. ("Walker's I-X-L"), Warren, Pa.
Walker & Pratt Mfg. Co., Boston, Mass.
Watkins, Jas. Y. & Son (Inc.), 16 Catherine, New York
White Mountain Freezer Co., Nashua, N. H.
Whitney, F. E., 65 Sudbury, Boston, Mass.

## French Ranges, Etc.

(See Cooking Apparatus)

## 3828—Friction Surfaces (Cork Insert)

Cork Insert Co. (For Brakes, Clutches & Pulleys), 16 State, Boston, Mass.

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## 3829— Frictions (Paper)

Dodge Mfg. Co., Mishawaka, Ind.
Rockwood Mfg. Co , Indianapolis, Ind
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E North av,** Chicago, Ill. (See adv. index, end of book)

## 3830— Froes (Coopers')

Bradley's, G. W. Sons, Westport, Conn.
Evansville Tool Works, Evansville, Ind.
Iron City Tool Co., Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 3831— Frogs (Cast Iron)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Indianapolis Switch & Forge Co., Springfield, O.
Irwin Foundry & Mine Car Co. (& Turnouts for Mine Tracks), Irwin, Pa.

## 3832—Frogs (Overhead Trolley)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## Frogs (Replacing)

(See Replacers, Car)

## 3833— Frogs (Spring Rail)

Cincinnati Frog & Switch Co., Cincinnati, O.
Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
Elliott Frog & Switch Co., East St. Louis, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Indianapolis Switch & Frog Co., Springfield, O.
Modern Frog & Crossing Works ("Vaughn," etc.), Commercial Bank bldg, Chicago, Ill.
Ramapo Iron Works ("Ramapo" Manganese Steel, Double, etc.), Hillburn, N. Y.
Wharton, Wm. J. & Co. (Inc.), 25th & Washington, Phila., Pa

## 3834—Frogs, Switches & Crossings

Ajax Forge Co., Blue Island & Hayne avs., Chicago, Ill
Alexander Crossing Co. (Continuous-Rail, Non Pounding Crossings), Clinton, Ill
Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
American Frog & Switch Co., Hamilton, O.
Barbour-Stockwell Co. (Street Ry.), Cambridge, Mass.
Barnum & Richardson Mfg. Co., Lime Rock, Conn.
Buda Co., Railway Exch. bldg, Chicago, Ill.
**CARLIN'S, THOS. SONS CO. (For Industrial Railway),** Olive bldg, Pittsburg, Pa. (See adv. index, end of book)
Central Track Supply Co., Springfield, O.
Cincinnati Frog & Switch Co. (For Standard & Narrow Gauge Tracks), Cincinnati, O.
Cleveland Frog & Crossing Co. (Manganese Steel), Cleveland, O.
Conley Frog & Switch Co., Memphis, Tenn.
Continuous Frog & Crossing Co. (Frog & Rail Joints), 915 Olive, St. Louis, Mo.
Elliott Frog & Switch Co. (Spring Frogs, Split Switches, & Switch Stands, etc.), East St Louis, Ill
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falk Company, Milwaukee, Wis.
Frog, Switch & Mfg. Co., Carlisle, Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Grant Locomotive & Car Works, Houston, Tex.
Guerber Engineering Co., Bethlehem, Pa.
Indianapolis Switch & Frog Co. ("R-N-R", Manganese Steel Frogs, Crossings, etc.), Springfield, Ohio
Kilby Frog & Switch Co., Birmingham, Ala.
Kropp, A. & Co., 52 Law av, Chicago, Ill.
Linton Rolling Mill Co., Linton, Ind.
Lorain Steel Co., Johnstown, Pa.
Magor Car Co., 50 Church, New York
Mordeu Frog & Crossing Works ("Union"), Commercial Nat'l Bank bldg, Chicago, Ill.
New York Switch & Crossing Co., Hoboken, N. J.
O'Leary, Arthur J. & Son Co., 652 W Lake Chicago. Ill

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Penna. Steel Co. ("Manard"), 1421 Chestnut, Phila., Pa.
Peteler Car Co., Minneapolis, Minn.
Pettibone, Mulliken & Co. ("Strom" Clamp Frogs & "Spring Rail" Frogs, etc.), 204 Dearborn, Chicago, Ill.
Railroad Supply Co., Bedford bldg., Chicago Ill
Ramapo Iron Works ("MacPherson" Crossings, Split Switches, Spring & Rigid Frogs, etc.), Hillburn, N. Y.
St. Louis Frog & Switch Co., St. Louis, Mo.
St. Louis Steel Foundry (Manganese Steel), St. Louis, Mo.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co. (Inc.) (Manganese Steel), 308 Walnut, Phila., Pa.

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**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## Frogs (Wrecking)

(See Replacers, Car)

## 3835—Frost Proof Pipe Boxing (Wooden Sectional for Exposed Water Pipes)

**BALTIMORE COOPERAGE CO., THE.** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 3836— Fuel Economizers

Aeolipyle Mfg. Co. (For Steam Boilers & House Furnaces), 45 E 42d, Chicago, Ill.
American Stoker Co., Erie, Pa.
**BARTLETT, C. O. & SNOW CO.** Cleveland, O. (See adv. index, end of book
Fuel Economizer Co. of America ("Cornell"), 925 Chestnut, Phila., Pa
Green Fuel Economizer Co., Matteawan, N. Y.
Keyes, F. E. & Son, 20 Broad, New York
Parker Boiler Co., Pennsylvania bldg, Phila. Pa.
Parsons Engineering Co. ("Parsons"), Equitable bldg, Wilmington, Del.
Steacy-Schmidt Mfg. Co., York, Pa.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Sullivan Fuel Economizer Co., 25 W 42d, New York
Thacher, Geo. H. & Co. ("Coe" Improved Combustion & Draft System), Albany, N. Y.
Union Standard Furnace Co., 309 B'way, New York

## 3837—Fuel Oil Pumping Systems

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
National Supply Co. ("Billow" Systems), 416 W Indiana, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)

## 3838—Fuel Oil & Gas Burning Appliances

(See also Burners, Fuel Oil)

American Furnace & Machine Co. ("Swindell." for Sheet Mills, etc.), Pittsburg, Pa.
Anthony Co., 45 W 34th, New York
Bennett's Petroleum Burner Co. ("Bennett's" New Process Pneumatic System), San Francisco, Cal.
Flinn & Dreffein Co., Manhattan bldg, Chicago, Ill.
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Best, W. N. & Son, 11 B'way, New York
Hauck Mfg. Co. (Oil Only), 140 Cedar, New York
Johnson, S. T. Co. ('Johnson's Liquid Fuel, Oil Low Pressure Air System), San Francisco, Cal.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index. end of book)
Mircs Fuel-Oil Equipment Co., Norfolk, Va.
National Supply Co. ("Billow" System), 416 W Indiana, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index. end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Schutte & Koerting Co. ("Koerting" Fuel Oil Only), 1251 N 12th, Phila., Pa.
**TATE, JONES & CO. (Inc.) (& Gas),** Empire bldg, Pittsburg, Pa. (See adv. index, end of book)
Witt, G. E. Co. (Inc.) (Specialty Fue Oil), 848 Howard, San Francisco, Cal.

## Fuller Board

(See Press Board)

## 3839— Fuller's Earth

Andrus, Wm. H. Co., Chicago Heights, Ill.
Davidson Commission Co., Postal Telegraph bldg, Chicago, Ill.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Floridin Co. ("Florida"), Warren, Pa.
Hammill & Gillespie, 240 Front, New York
Lester Clay Co., Jacksonville, Fla.
Lyon Fuller's Earth Co., Dallas, Tex.
Olson, John, Benton, Ark.
Owl Commercial Co., 130 Water, New York
Salomon, L. A. & Bro., 216 Pearl, New York
Southern Fullers Earth Co., Warren, Pa.
Todd, T. S. & Co., 42 Broadway, New York
Whittaker, W. H., 245 Front, New York

## 3840—Fullers (Top & Bottom)

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Blacksmiths'(, Alton, Ill.
Champion Tool Co., Meadville, Pa.
Evansville Tool Works, Evansville, Ind.
Heller Bros. Co., Newark, N. J.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.

## 3841— Fumigators

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Wotherspoon, Jas. R. ("Eureka," "Perfection"), 238 N Front, Phila., Pa.

## 3842—Funnels (Aluminum)

Hero Mfg. Co., Gaul & Adams, Phila., Pa.

## 3843—Funnels for Injection & Oil Overflow

**LUNKENHEIMER CO., General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 3844— Funnels (Gasoline)

Auto-Improvement Co. ("Ever Ready"), 304 Hudson, New York
Cambria Forge Co., Johnstown, Pa.
Dover Stamping & Mfg. Co. ("Dover" Motor Boat & Auto), Cambridge, Mass.
Frost Mfg. Co., Kenosia, Wis.
Hill Dryer Co. ("Hill"), Worcester, Mass.
Hussey Drop Forge & Mfg. Co.. Axtell opp. Osage, Cleveland, O.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Stevens & Co. ("Breeze"), 373 B'way, New York
Vogel, Wm. & Bros. (Automobile), 37 S 9th, Brooklyn, N. Y.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

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## 3845—Funnels (Nitre Charging)

Pratt Engineering & Machine Co., Atlanta, Ga.

## 3846—Furnace Pipe & Fittings

Bartlett, J. C., 632 Liberty av, Pittsburg, Pa.,
Chicago Furnace Supply Co., 549 W Monroe, Chicago, Ill.
Excelsior Steel Furnace Co., 517 W Monroe, Chicago, Ill.
Meyer, F. & Bro. Co. ("Improved Handy"), Peoria, Ill.
Michigan Safety Furnace Pipe Co., Detroit, Mich.
Peck-Williamson Heating & Ventilating Co., Cincinnati, O.
Perfection Furnace Pipe Co., Toledo, O.
**PITTSBURGH GAGE & SUPPLY CO.** (Blast Furnace, etc.), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & Construction Co.** (Blast Furnace, etc.), 26th & A. V. R'y, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Roberts Heating & Ventilating Co., Minneapolis, Minn.
Safety Furnace Pipe Co., Detroit, Mich.
United States Register Co., Battle Creek, Mich.
Wright Mfg. Co., New Haven, Conn.
Twentieth Century Heating & Ventilating Co., Akron, O.

## 3847—Furnaces (Agricultural)

Donaldson Bros., Mount Clemens, Mich.
Lehr Agricultural Co., Fremont, O.

## 3848—Furnaces (Aluminum Melting)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Frankfort"), 336 Frankfort, av, N W, Cleveland, O. (See adv. index, end of book)

## 3849—Furnaces (Annealing & Case Hardening)

Albany Foundry Co. ("Argand" Gas Oven Furnace), Albany, N. Y.
American Furnace & Machine Co. ("Swindell" Annealing for Sheet Mills), Pittsburg, Pa.
**AMERICAN GAS FURNACE CO. (Gas), 24 John, New York, & Elizabeth, N. J.** (See adv. index, end of book)
American Shop Equipment Co., McCormick bldg, Chicago, Ill.
American Stoker Co., 11 B'way, New York
Bates Machine Co., Joliet, Ill.
Bates & Peard Annealing Furnace Co. (For Annealing Non-Ferrous Metals Only), C. M. Dally, Agt., 29 B'way, New York
**BEACH-RUSS CO., 55-59 Green,** Brooklyn, N. Y. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York (See adv. index, end of book)
Billing & Spencer Co. ("B. & S. Co.'s," Heating & Annealing), Hartford, Conn.
Braun Corporation (Annealing, Hardening, Tempering & Case Hardening), Los Angeles, Cal.
Brown & Sharpe Mfg. Co., Providence, R. I.
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Crosby Co. (Case Hardening), 171-189 Pratt, Buffalo, N. Y.
Engelhard, Chas. ("Heraeus," Steel Hardening), 30 Church, New York
Flinn & Dreffein Co. (Gas & Oil), Manhattan bldg, Chicago, Ill.
Forter-Miller Engineering Co., Hartje bldg, Pittsburg, Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Hagan, Geo. J. ("Bailey" Patent), Pittsburg,
Hauck Mfg. Co., 140 Cedar, New York Pa.
Holcroft & Co. (Annealing Only), Detroit, Mich.
**KEMP, C. M. CO. (Gas), 481 E Oliver,** Baltimore, Md. (See adv. index, end of book)
McClure, G. W., Son & Co., Bessemer bldg, Pittsburg, Pa.
MacKenzie's, Duncan Sons Co., Trenton, N. J.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Manchester, C. B. Gas Furnace Co. (Gas), Providence, R. I.
Morgan Construction Co., Worcester, Mass.
Railway Materials Co. (For Boiler Shop, Oil as Fuel), Old Colony bldg, Chicago, Ill.
Reed, Chas. J., 23d & Hamilton, Phila., Pa.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO. (Stationary & Rotary Types),** 50 Church, New York. (See adv. index, end of book)
Scott, C. U. ("Scott," Lead Bath), Davenport, Iowa
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Swindell, Wm. & Bro. (Inc.), Pittsburg, Pa.
**TATE, JONES & CO. (Inc.) ("Kirkwood"** Oil & Gas for Fuel), Empire bldg, Pittsburg, Pa. (See adv. index, end of book)
U. S. Gas Furnace Co. (Gas Blast), Providence, R. I.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Westmacott Gas Furnace Co. (Gas Blast), Providence, R. I.
Witteman, A. P. Co. ("Gantt" Coke), 112 N Broad, Phila., Pa.

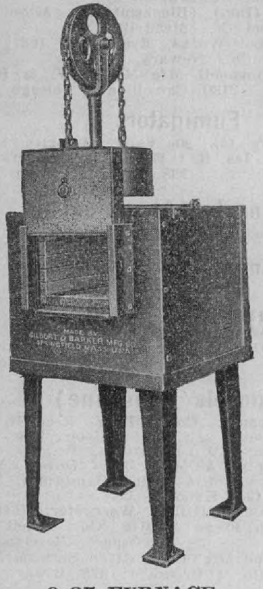
## Furnaces (Asphalt, Pitch & Tar)

(See Heaters, Asphalt, Pitch & Tar)

## 3850—Furnaces (Assayers' & Bullion)

**AMERICAN GAS FURNACE CO., 24** John, New York, & Elizabeth, N. J. (See adv. index, end of book)


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Braun Corporation, Los Angeles, Cal.
Calkins Co., Los Angeles, Cal.
Denver Fire Clay Co. ("Case"). Denver, Col.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Monarch Engineering & Mfg. Co. ("Steel-Harvey"), Baltimore. Md.
National Economic Gas Blast Co. ("Revelation," Gas Blast), 88 John, New York
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church.** New York (See adv. index, end of book)

## 3851—Furnaces (Babbitt Melting)

**AMERICAN GAS FURNACE CO. (Gas),** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Davis, W. P. Machine Co. ("Vesuvius"), Rochester, N. Y.
Hauck Mfg. Co., 140 Cedar, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Leddell-Bigelow Co. ("Bee," Anti-Friction Portable), 18 B'way, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church.** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO. ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)**
**TATE, JONES & CO. (Inc.). Empire bldg.,** Pittsburg, Pa. (See adv. index, end of book)
U. S. Gas Furnace Co., Providence, R. I.
Westmacott Gas Furnace Co., Providence, R. I.

## Furnaces (Bagasse)

(Is Classified in its order under Sugar Machinery in the Letter S)

## 3852—Furnaces (Barium Chloride)

**AMERICAN GAS FURNACE CO.,** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
**CHICAGO FLEXIBLE SHAFT CO., 81** Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Frankfort" Barium Chloride & Cyanide Hardening), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 3853—Furnaces (Billet Heating)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Hagan, Geo. J., Pittsburg, Pa.
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
**ROCKWELL FURNACE CO. (Oil, Coal** or Gas), 2 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO. (Oil, Coal or Gas), 50 Church,** New York. (See adv. index, end of book)
Swindell, Wm. & Bros. (Inc.), Pittsburg, Pa.

## 3854—Furnaces (Brass & Copper Melting)

Barnett, Oscar Foundry Co., Newark, N. J.
Best, W. N. & Son, 11 B'way, New York
Brass Founders' Supply Co. (Rotary), Newark, N. J.
Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
Hauck Mfg. Co., 140 Cedar, New York
Hawley Down Draft Furnace Co. ("Schwartz"), 736 W Monroe, Chicago, Ill.
Jarvis Engine & Machine Works, Lansing, Mich.
Johnson Service Co. ("Johnsons"), Milwaukee, Wis.
Littleford Bros., 453 E Pearl, Cincinnati, O.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Manchester, C. B. Gas Furnace Co. (Gas), Providence, R. I.
Monarch Engineering & Mfg. Co. ("Steel-Harvey" Oil), Baltimore, Md.
National Economic Gas Blast Co. ("Revelation," Gas Blast), 88 John, New York
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO. (Tilting &** Stationary Crucible Types), 50 Church, New York. (See adv. index, end of book)
Sheriffs Mfg. Co., 124 Barclay, Milwaukee, Wis.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** (Also Aluminum), 1846 Scranton rd, N. W, Cleveland, O. (See adv. index, end of book)
Stevens, Frederic B., Detroit, Mich.
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.) ("Schwartz,"** with "Kirkwood" Fuel Oil System), Empire bldg, Pittsburg, Pa. (See adv. index, end of book)
U. S. Gas Furnace Co. (Gas Blast), Providence, R. I
Westmacott Gas Furnace Co. (Gas Blast), 159 Orange, Providence, R. I.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Wise, J. B. ("M-R-V" Tilting Crucible), Watertown, N. Y.

## 3855—Furnaces (Brazing)

Best, W. N. & Son, 11 B'way, New York
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Crucible), 81 Lasalle, Chicago, Ill. (See adv. index & branch offices, end of book)
Flinn & Dreffein Co. (Gas & Oil), Manhattan bldg, Chicago, Ill.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## Furnaces (Case Hardening)

(See Furnaces, Annealing & Case Hardening)

## 3855a Furnaces (Chain Welding)

**KEMP, C. M .CO. (Gas), 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)

## 3856—Furnaces (Combination Gas & Oil)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Frankfort"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 3857—Furnaces (Confectioners' Gas)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)**
Katzinger, Edw. & Co. ("Ecko"), 122 N Peoria, Chicago, Ill.

## 3858—Furnaces (Copper)

Manitowoc Engineering Works, Manitowoc, Wis.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)

## 3859—Furnaces (Copper Matting)

Traylor Engineering Co., Allentown, Pa., & 30 Church, New York

## Furnaces (Core Baking)

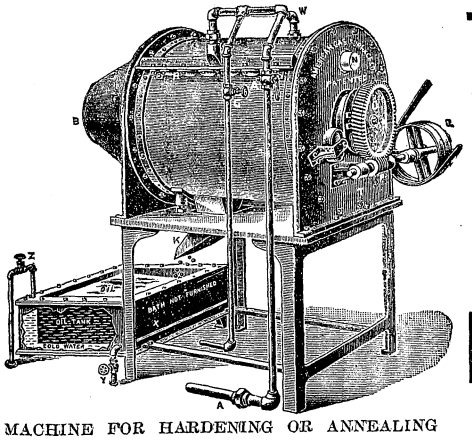
(See Ovens, Core Baking)

## 3860—Furnaces (Corrugated)

Continental Iron Works ("Morison" Suspension & "Fox" Corrugated for Land & Marine Boilers), West & Calyer, New York

## 3860a—Furnaces (Cremating)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

MACHINE FOR HARDENING OR ANNEALING

# THE FUEL GAS SYSTEM

OF THE

# AMERICAN GAS FURNACE CO.

## 24 John Street, New York.

WE MAKE

Pressure Blowers — Gas Blast Furnaces
Heating Machines — Blow Pipes and Burners
Coloring and Tempering Machines
Case Hardening Machines
Carbonizing by Gas (No Solid Carbon Used)
Rotary Annealing Machines with Sealed Retort

Catalogue Sent On Application.


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## 3861—Furnaces (Crucible)

(See also Furnaces, Melting)

**AMERICAN GAS FURNACE CO.,** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)

Best, W. N. & Son, 11 B'way, New York

Braun Corporation, Los Angeles, Cal.

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)

Engelhard, Chas. ("Heraeus"), 30 Church, New York

**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

Hagan, Geo. J., Pittsburg, Pa.

Hauck Mfg. Co., 140 Cedar, New York

Hawley Down Draft Furnace Co. ("Reyelbec," Coke Tilting, also Stationary Type), 736 W Monroe, Chicago, Ill.

Holcroft & Co., Detroit, Mich.

Hoskins Mfg. Co. ("Hoskins" Electric), Detroit, Mich.

Kroeschell Bros. Co. ("Kroeschell-Schwartz" Gyrating Flame for Non-Ferrous Metals) 440 W Erie, Chicago, Ill.

**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)

Monarch Engineering & Mfg. Co. ("Steele-Harvey" Tilting Melting), Curtis Bay, Baltimore, Md.

**ROCKWELL FURNACE CO. ("Rockwell" Tilting),** 26 Cortlandt, New York. (See adv. index, end of book)

**ROCKWELL, W. S. CO. ("Rockwell,"** Single & Double Chamber Tilting & Stationary), 50 Church, New York. (See adv. index, end of book)

Smythe, S. R. Co., Pittsburg, Pa.

**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Swindell, Wm. & Bros. (Inc.), Pittsburg, Pa.

**TATE, JONES & CO. (Inc.), Empire bldg.,** Pittsburg, Pa. (See adv. index, end of book)

Turner Brass Works (Gasoline), Sycamore, Ill

Union Drop Forge Co., 358 W Indiana, Chicago, Ill.

**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

Wise, J. B. ("M-R-V," Brass Melting Tilting), Watertown, N. Y.

## 3862—Furnaces (Cupelling)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

Traylor Engineering Co., Allentown, Pa., & 30 Church, New York

## 3863— Furnaces (Cupola)

**NORTHERN ENGINEERING WORKS** ("The Newten"), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

**WHITING FOUNDRY EQUIPMENT Co.,** Harvey, Ill. (See adv. index & branch offices, end of book)

## 3864—Furnaces (Cyanide Hardening)

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart"), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 3865—Furnaces (Electric)

American Electric Furnace Co. ("Roechling-Rodenhauser"), 45 Wall, New York

**BRISTOL CO. (And "Wm. H. Bristol's" Recording Pyrometer Outfits),** Waterbury, Conn. (See adv. index & branch offices, end of book)

Eimer & Amend ("E. & A." "Borcher's," "Moissan," "Roessler's," "Hartzfeld"), 18th & 3d av, New York

Engelhard, Chas. ("Heraeus," for Laboratory & Experimental Purposes), 30 Church, New York

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Hoskins Mfg. Co. ("Hoskins," for Hardening Carbon Steel, etc.), Detroit, Mich.

International Acheson Graphite Co. (Small, for High Temperature), Niagara Falls, N. Y.

International Instrument Co., Cambridge, Mass.

**LEAVITT, C. W. & CO. ("Girod" for** Steel Work), 34 Church, New York (See adv. index, end of book)

Sargent, E. H. & Co. (For Laboratory), 143 Lake, Chicago, Ill.

Stupakoff, S. H. (For Experimental Work), 545 Turret, Pittsburg, Pa.

Thomas, Arthur H. Co. (For Laboratory), 12th & Walnut, Phila., Pa.

Wolff, R. H. ("Heroult"), 149 B'way, New York

## Furnaces (Electricians')

(See Furnaces, Gasoline Blast)

## 3866—Furnaces (Enameling)

**AMERICAN GAS FURNACE CO.** (Gas, also Assaying), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)

Gas Machinery Co., Cleveland, O.

**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

Hagan, Geo. J., Pittsburg, Pa.

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

**ROCKWELL, W. S. CO., 50 Church,** New York (See adv. index, end of book)

**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

**TATE, JONES & CO. (Inc.) Empire bldg.,** Pittsburg, Pa. (See adv. index, end of book)

## Furnaces (Evaporator)

(See Evaporators)

(Also see Evaporators, Multiple Effects in Sugar Machinery)

## 3866a—Furnaces (Expanding)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 3867—Furnaces (Faggot Heating)

Hagan, Geo. J., Pittsburg, Pa.

## 3868—Furnaces (Flue Welding)

(See also Flue, Welding Machines)

Best, W. N. & Son, 11 B'way, New York

**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

**ROCKWELL, W. S. CO., 50 Church,** New York (See adv. index, end of book)

**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

## 3869—Furnaces (Forging, Etc.)

Best, W. N. & Son, 11 B'way, New York

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart," Gas Blast or Oil, for Small Forgings, etc.), 81 Lasalle, Chicago, Ill. (See adv. index & branch offices, end of book)

Flinn & Dreffein Co. (Gas & Oil), Manhattan bldg. Chicago, Ill.

**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

Hagan, Geo. J., Pittsburg, Pa.

Hauck Mfg. Co., 140 Cedar, New York

**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)

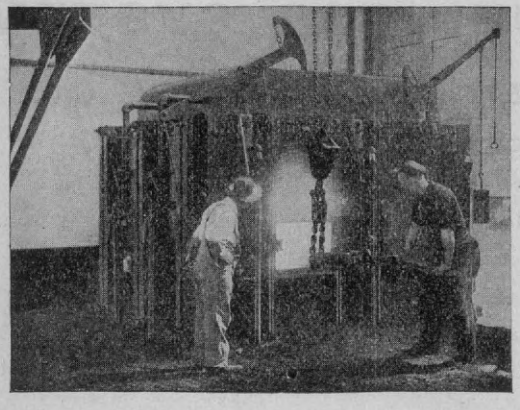
Railway Materials Co. ("Ferguson," Oil as Fuel), Old Colony bldg. Chicago, Ill.

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

**ROCKWELL, W. S. CO., 50 Church,** New York (See adv. index, end of book)

Scott, C. U. ("Scott" Combination Forge & Furnace), Davenport, Ia.

**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

# Original Rockwell Furnaces

FOR

Annealing
Assaying
Brazing
Case-Hardening
Core Ovens
Cupel Furnaces
Enameling
Forging
Hardening
Heating
Japanning
Melting
Muffle
Reverberatory
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Singeing
Soft Metal
Tempering
Tinning

ALSO

Oil Burners
Gas Burners
Oil Pumping Systems
Oil Hose
Oil Storage Tanks
Blowers up to 10 lbs. pressure

WRITE FOR CATALOG 37

W.S. ROCKWELL CO. ESTABLISHED 1888 CHARTERED 1908 NEW YORK

Our experience in furnace design and construction covers a period of over twenty years, and Rockwell Furnaces are in thousands of factories in this country; in the mints, the arsenals, the navy yards, in this and other countries. We also manufacture a full line of appliances for the handling and burning of gas and oil.

## W. S. Rockwell Company

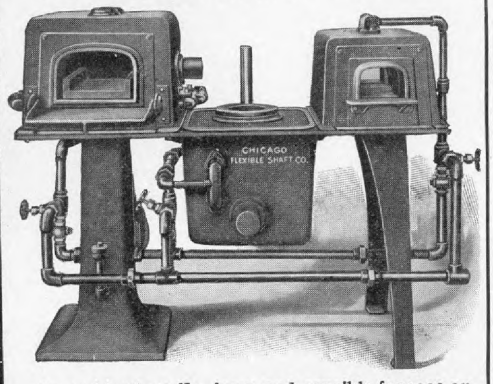
**50 CHURCH ST.** Hudson Terminal Building **NEW YORK**

**(THE ORIGINAL FURNACE ROCKWELL)**


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# For the Heat Treatment of Metals in the most modern way use a Stewart Furnace

## Stewart Combination Furnace




A combined muffle, forge and crucible furnace on one base. Ten to twelve minutes produces a good hardening heat in the muffle. One minute from the time of starting the furnace brings a piece one inch round to a good hardening heat in the forge section. Thirty-five minutes will heat a crucible of lead to a cherry red. No chimney is required and no dust nor dirt accompanies its use. The range of uses to which this furnace may be put makes it practically indispensable.

## Stewart No. 1 Oven Furnace




Suitable for heating an infinite variety of work, such as dies, milling cutters, tools of every kind, cutlery, springs, reamers, etc. This furnace makes for a maximum of efficiency in all pieces heated in it. By its use the percentage of loss and inferior work is reduced to practically nothing. The increased uniformity of results and low cost of operation make this furnace a most profitable purchase. This furnace may also be used as a muffle furnace.

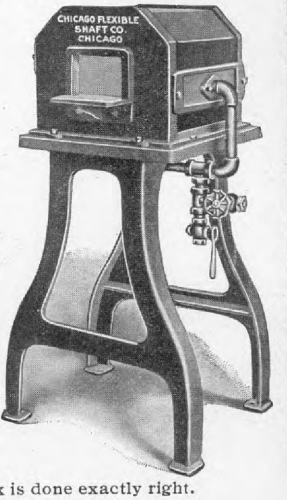
***This is the world's most modern and varied line of gas or oil operated forges, oven furnaces, crucible furnaces, brass melting furnaces, case hardening furnaces, high speed steel furnaces, plate annealers, rivet heaters, brazing tables, soldering iron heaters, etc.***

# Sixty Styles and Sizes

***Write for our big catalogue.***

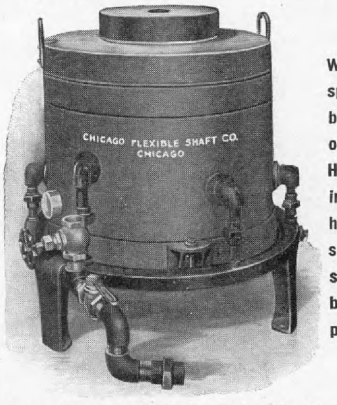
***It will show you many avenues to economy and better results in the heat treatment of metals and pieces of all kinds.***

## Stewart No. 0 Forge




A very convenient and economical furnace for use in heating the ends of rods or other long pieces for welding, etc. Does the work rapidly and under perfect regulation of heat. Like our other furnaces, it may be procured fitted for burning gas, crude oil or kerosene. There is no waste of fuel, the heat is all put to use and the work is done exactly right.

## The Most Perfect Method Known for Hardening High Speed Tools




**Write for special booklet on the Hardening of high speed steels by this process**

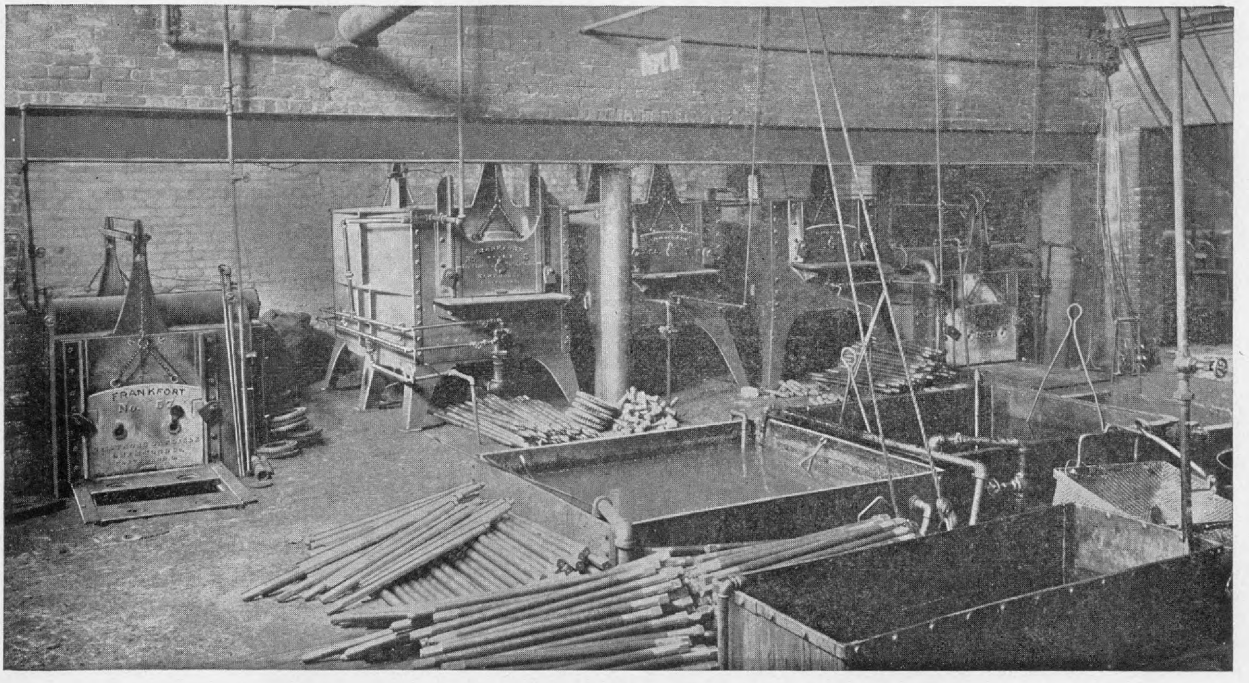
## The Stewart Barium Chloride Furnaces

Designed especially for this use. Special analysis fire clay linings; no unnecessary piping or useless apparatus. Perfect combustion, absolute control of heat. It means no spoiled pieces, more work and finer results from every high speed steel tool you make. This perfect hardening means double the life for most of your high speed steel tools

| | |
|---|---|
| No. 12. Crucible 8 ins. high; 6¼ ins. in diameter at top. With blower | $ 65 |
| Without blower | 40 |
| No. 35. Crucible 11⅝ ins. high; 9¼ ins. in diameter at top. With blower | 90 |
| Without blower | 60 |
| No. 60. Crucible 14 ins. high; 10⅜ ins. in diameter at top. With blower | 150 |
| Without blower | 90 |

**CHICAGO FLEXIBLE SHAFT CO., 81 La Salle Ave., Chicago, U. S. A.**

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INSTALLATION OF FRANKFORT FURNACES IN THE PLANT OF THE
TIMKEN DETROIT AXLE COMPANY, DETROIT, MICH.

WE BUILD

# FRANKFORT FURNACES

FOR

# HEAT TREATING METALS

TO BE USED WITH

## GAS OR OIL FUEL

## Strong, Carlisle & Hammond Company

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Union Drop Forge Co. (Also Crucible), 358 W Indiana, Chicago, Ill.
U. S. Gas Furnace Co. (Gas Blast), 159 Aborn, Providence, R. I.
Westmacott Gas Furnace Co. (Gas Blast), 159 Orange, Providence, R. I.
Witteman, A. P. Co. ("Gantt" Coke), 112 N Broad, Phila., Pa.

## 3870–Furnaces (Fuel Oil Burning)

American Shop Equipment Co., McCormick bldg, Chicago, Ill.
Best, W. N. & Son, 11 B'way, New York
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Denver Fire Clay Co. ("Case"), Denver, Colo.
Fisher, Alfred, 3720 W Harrison, Chicago, Ill.
Flinn & Dreffein Co., Manhattan bldg, Chicago, Ill.
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Hagan, Geo. J., Pittsburg, Pa.
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Mires Fuel-Oil Equipment Co., Norfolk, Va.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO. ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)**
**TATE, JONES & CO. (Inc.), Empire bldg.,** Pittsburg, Pa. (See adv. index, end of book)

## 3871–Furnaces (Galvanizing)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## 3872– Furnaces (Gas)

American Shop Equipment Co., McCormick bldg, Chicago, Ill.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Combustion Utilities Co. (Also Lime), 60 Wall, New York
Denver Fire Clay Co. ("Case"), Denver, Colo.
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Hagan, Geo. J., Pittsburg, Pa.
**KEMP, C. M. CO., 401 E Oliver, Baltimore,** Md. (See adv. index, end of book)
Learn & Brindle ("Knoderer"), Columbus, O.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO. ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)**
**TATE, JONES & CO. (Inc.) ("Kirkwood"),** Empire bldg, Pittsburg, Pa. (See adv. index, end of book)

## 3874–Furnaces (Gas Blast)

**AMERICAN GAS FURNACE CO.,** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
**CHICAGO FLEXIBLE SHAFT CO. ("Steart"),** 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 3875–Furnaces (Gas Generator)

Gautier, J. H. & Co. ("Fleming"), Jersey City, N. J.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

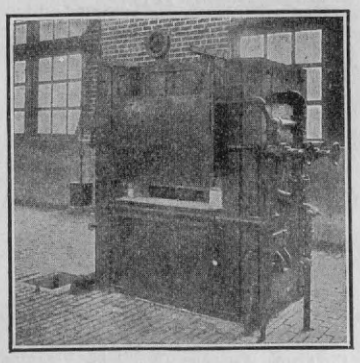
## 3876–Furnaces (Gas Soldering)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Bickelhaupt, G. Skylight Works, 243 W 47th, New York
Burgess Soldering Furnace Co. ("Gem"), Columbus, O.
Eclipse Gas Stove Co., Rockford, Ill.
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Jacobson Machine Mfg. Co., Warren, Pa.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
New York Improved Meter Co., 306 E 47th, New York
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Odin Stove Mfg. Co. ("Odin"), Erie, Pa.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER**


# Do You Know the Comparative Values of Various Fuels?
# Have You the Most Economical Furnace Equipment?

The question of fuel is one which to-day demands careful attention, and can only be determined after careful consideration of the nature of the work, base cost of fuel and the money investment. We are prepared to furnish figures showing relative economy of all fuels, taking into consideration direct firing, preheating and regeneration.
This table of comparative fuel values is copied from page 3 of our Catalog "F-21."

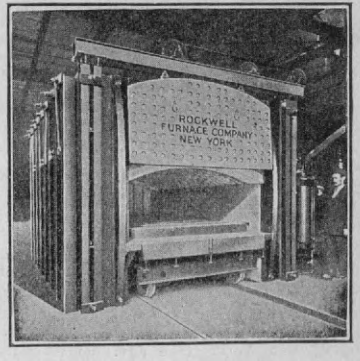


Gas Fired Forge Furnace

| KIND OF GAS | Heat units in 1 cu. ft. | Cu. ft. to equal 1 gal. of oil |
|---|---|---|
| Natural Gas | 1000 | 140 |
| Coal Gas, 20 C. P. | 675 | 208 |
| Carburetted Water Gas | 646 | 216 |
| Gasoline Gas, 20 C. P. | 690 | 202 |
| Water Gas from Bituminous Coal | 377 | 376 |
| Water Gas from Anthracite Coal | 313 | 447 |
| Producer Gas | 150 / 90 | 935 / 1555 |

1 lb. average oil.....equals 19,000 B. T. U.

## Rockwell Furnace Company
IS AT YOUR SERVICE.




Oil Fired Annealing Furnace

Furnace building, Economical Furnace building, is our specialty. We can better your conditions. We employ a force of competent expert furnace engineers especially trained and are prepared to submit specifications and prices on complete furnace equipment, USING ANY FUEL, and guarantee the proper operation.

## Rockwell Furnace Company
26 Cortlandt St., New York Fisher Building, Chicago

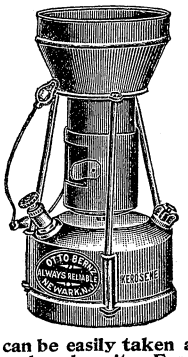

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## 3877—Furnaces (Gasoline Blast)

A. D. Mfg. Co., Detroit, Mich.
American Stove Co. ("Reliable," "Quick Mea"), St. Louis, Mo.
Baker, J. R. & Sons Co., Kendallville, Ind.
**BERNZ, OTTO ("Always Reliable"),** 21 Ashland av, Newark, N. J. (See adv. index, end of book)
Best Light Co., Canton, O.
Burgess Soldering Furnace Co. ("Gem," "Star"), Columbus, O.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Danzer Metal Works ("Danzer's"), Hagerstown, Md.
Diener, G. W. Mfg. Co. ("Torrid"), 400 Monticello av, Chicago, Ill.
**Gas Machinery Co., Cleveland, O.**
**Haines, Jones & Cadbury Co., 1140 Ridge av,** Phila., Pa.
**Hull, J. S. Mfg. Co., Baltimore, Md.**
**Jacobson Machine Co. ("Superior"), Warren, Pa.**
Knapp Mfg. Co., 20 Warren, New York
Meyer Foundry & Machine Co. ("Lundy" Soldering), South Bend, Ind.
**Murray, John A. ("Haggerty"), 625 6th av, New York**
Park & McKay Co., Detroit, Mich.
Sun Vapor Street Light Co., Canton, O.
Turner Brass Works ("Bonanza," "Eureka," "Pioneer," "Silent Friend"), Sycamore, Ill.
West Mfg. Co., Buffalo, N. Y.
**Widder, F. E. Co., Canton, O.**
**Wolff, L. Mfg. Co. ("Duro"), 601 W Lake, Chicago, Ill.**


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## 3878—Furnaces (Glass Mfrs.)

American Producer Gas Furnace Co., Salem, N. J.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Hagan, Geo. J., Pittsburg, Pa.
Murphy, M. L., 426 4th av, Pittsburg, Pa.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)
Standard Kiln & Chimney Construction Co., 34 W 33d, New York

## 3878a—Furnaces (Gold & Silver Melting)

(See Furnaces, Assayers' & Bullion)

## Furnaces (Hardening)

**(See Furnaces, Annealing & Case Hardening)**

## 3879—Furnaces (Hardening, Electric)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 3880—Furnaces (Heating)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Billings & Spencer Co. ("B. & S. Co.'s"), Hartford, Conn.
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Hauck Mfg. Co., 140 Cedar, New York
Holcroft & Co., Detroit, Mich.
**KEMP, C. M. CO. (Gas), 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
McClure, G. W. Son & Co., Bessemer bldg, Pittsburg, Pa.
Morgan Construction Co. (Continuous), Worcester, Mass.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York (See adv. index, end of book)
Smythe, S. R. Co., Pittsburg, Pa.
**STRONG, CARLISLE & HAMMOND** Co. ("Frankfort"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Swindell, Wm. & Bros. (Inc.), Pittsburg, Pa.
**TATE, JONES & CO. (Inc.), Empire bldg.,** Pittsburg, Pa. (See adv. index, end of book)
Williams, White & Co., Moline, Ill.
Witteman, A. P. Co. ("Gantt," Coke Self-Feeding), 114 N Broad, Phila., Pa.

## 3881—Furnaces (High Speed Steel)

**AMERICAN GAS FURNACE CO. (Gas),** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Bellevue Furnace Co. (Fuel Oil Burning Muffle), Detroit, Mich.
Best, W. N. & Son, 11 B'way, New York
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Krieger Tool & Mfg. Co. ("Krieger," for Cold Blast Hardening), 564 W Randolph, Chicago, Ill.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York (See adv. index, end of book)
Scott, C. U. ("Scott"), Davenport, Ia.
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
Swindell, Wm. & Bros. (Inc.), Pittsburg, Pa.
**TATE, JONES & CO. (Inc.), Empire** bldg, Pittsburg, Pa. (See adv. index, end of book)
U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.
Witteman, A. P. Co. ("Gantt," Coke Self-Feeding), 114 N Broad, Phila., Pa.

## 3882— Furnaces (Hop)

Munnsville Plow Co. ("Duplex," "20th Century"), Munnsville, N. Y.

## 3883—Furnaces (Hot Air, Gas for Fuel)

Barber Mfg. Co., Astabula, O.
Crane, Wm. M. Co., 16 W. 32d, New York
Hughes, D. D. & Son ("Perfection"), Titusville, Pa.
Pennsylvania Furnace & Stove Co. ("Pennsylvania"), Warren, Pa.
Schellhammer & Son, Warren, Pa.

## 3884—Furnaces (Hot Air, Mfrs.)

### CALIFORNIA.

LOS ANGELES—Phillips Heating, Vent & Mfg. Co. ("Browne")
SAN FRANCISCO—Mission Fdry & Stove Wks
Steiger & Kerr Stove & Foundry Co.

### CONNECTICUT.

BRISTOL—Turner Heater Co.
NORWICH—McCrum-Howell Co. ("Richmond"), Main Office, New York
PUTNAM—Putnam Foundry & Machine Co.
STAMFORD—Stamford Foundry Co.

### ILLINOIS.

AURORA—Aurora Furnace Co. (N. P. Welter, Prop.)
Love Bros. (Inc.)
**BLOOMINGTON—American Foundry & Furnace Co.**
MaGirl, P. H.
CHICAGO—Excelsior Steel Furnace Co., 517
Franzen, Wm., 3352 Sheffield av
W Monroe Globe Heat-Power Co. ("Doyle"), 213 E
Hamilton, Alfred O., 820 E 43d
Randolph Hess Warming & Ventilating Co., 131 Lasalle
Illinois Heater & Mfg. Co., 35 Dearborn
McKenzie Furnace Co., 84 Van Buren
McMillan, Jas., & Co., 79 Market
Olson, A. J. & Co., 205 E Lake
Rait, W. S. & Co., 211 Lake
Reynolds, B. F. & Co., 412 Dearborn av
Robinson Furnace Co., 107 Lake
Servoss Furnace Co., 135 Lake
Smith, Chas. Co. ("Hero," "Little Giant"), 101 Lake
Van Evera & Lewis Mfg. Co., 610 W Lake
Water Arch Furnace Co., 164 Dearborn
CHICAGO HEIGHTS—Quaker Mfg. Co.
JOLIET—Moore Bros. Co. ("Moore's")
**KEWANEE—Kewanee Foundry & Mfg. Co.**
MOLINE—Tyrrell, B. B. & Co.
**PEORIA—Meyer Furnace Co.**
**QUINCY—Gem City Stove Mfg. Co. ("German")**

### INDIANA.

INDIANAPOLIS—Abel & Doyle
Hawkins-McCain Co.
Johnson, W. H. & Son Co., 945 Fort Wayne av
Kruse & Dewenter, 427 E Washington
Mast. Geo. J. Heating Co., 643 Mass av
Rybolt, Harry, 632 Mass. av
Thiele, L. C. Co.
Troy Bros.

### IOWA.

DES MOINES—Campbell Heating Co.
Green Foundry & Furnace Works
DUBUQUE—Smedley Steam Pump Co.
MARSHALLTOWN—Lennox Furnace Co., (Hard & Soft Coal & Wood)
OSKALOOSA—Interstate Mfg. Co.
WATERLOO—Bovee Grinder & Furnace Works ("Bovee," Compound Radiator Furnace)

### KANSAS.

LEAVENWORTH—Varney Heating & Mfg. Co.

### MAINE.

BANGOR—Wood & Bishop Co.
PORTLAND—Portland Stove Foundry Co.

### MARYLAND.

BALTIMORE—Bartlett, Hayward & Co.
Bibb, B. C. Stove Co., 107 Light
Heath, Chas. C. Co.
Sexton, S. B. Stove & Mfg. Co., 7 S Gay
Sheppard, Isaac A. & Co.

### MASSACHUSETTS.

BOSTON—Boston Furnace Co., 6 Portland
Carpenter, Cyrus & Co.
Chilson Furnace Co., 88 Washington
Chubbuck Furnace Co., 1892 Washington
Clark, Henry N. Co., 56 Union
Felton-Turner Heating Co., 32 Warren, Rox.
Hertig Furnace Co., 1342 Columbus av
Highland Foundry Co., 1341 Columbus av
Howes, S. M. Co., 40 Union
Kohler Furnace & Steam Heating Co., 1342 Columbus av, Rox.
Magee Furnace Co., 38 Union
Ridgway Furnace Co., 6 Portland
Rodday, Robt. J. & Co., 138 Harrison av
Walker, Robt. L. Furnace Co., 45 Kilby
Walker & Pratt Mfg. Co., 31 Union
White, Chas. H. Heating Co., 22 Bawker

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CHELSEA—International Heater Co.
MANSFIELD—Chilson Furnace Co.
METHUEN—Sanborn Furnace Co.
OAKHAM—Dean, Walter R.
WATERTOWN—Walker & Pratt Mfg. Co.
WESTFIELD—Brien Heater Co.
WINCHENDON—Hill & Bosley

## MICHIGAN.

DETROIT—Detroit Furnace Mfg. Co.
Detroit Stove Works
Hare, A. A., 300 Woodward av
Ideal Furnace Co., 66 State
Michigan Stove Co. ("Garland")
Peninsular Stove Co.
Standard Foundry Co., 24 Chene
DOWAGIAC—Beckwith, P. D. (Est. of), Round Oak
GRAND RAPIDS—Grand Rapids Furnace Co.
LANSING—Hazleton Furnace Co.
MARSHALL—Marshall Furnace Co.
MONROE—Monroe Foundry & Furnace Co.
NORTHVILLE—American Bell & Foundry Co.
PETOSKEY—Burnett Foundry & Machine Co. (Ltd.)

## MINNESOTA.

MINNEAPOLIS—Andrews Heating Co. ("Andrews")
ST. PAUL—Prendergast Bros.
Wolterstorff & Haskell Range & Furnace Co. (The "St. Paul")

## MISSOURI.

JOPLIN—Joplin Furnace & Mfg. Co. ("Great Circle," "Lake Shore")
KANSAS CITY—Kansas City Furnace Co.
MOBERLY—Selby, W. H. ("Ideal")
ST. LOUIS—American Furnace Co.
Bishop-Eberle Mfg. Co. ("Security")
Brinkman, J. H. & Sons
Dooly, Jno. E. Furnace Co.
Haynes-Langenberg Mfg. Co. ("Front Ranks" Steel)
Tipton & Mackey Mfg. Co.
Wrought Iron Range Co.

## NEW JERSEY.

JERSEY CITY—Boynton Furnace Co.
NEWARK—Thatcher Furnace Co.

## NEW YORK.

CORNING—Corning Mfg. Co. **("The Victor")**
FULTON—Emeny, G. J. Co. ("Intense")
GENEVA—**Summit Foundry Co.**
NEW YORK—Abendroth Bros., 109 Beekman
Barstow Stove Co., 210 Water
Boynton Furnace Co., 106 W 37th
Crane, W. M. Co., 16 W 32d
Graff Furnace Co., 208 Water
Harrison Engineering Co. ("Harrison" Aertube), 42 E 23d
Harvey Furnace Co., 220 W 26th
Janes & Kirkland, 725 6th av
McCrum-Howell Co. ("Richmond"), 108 Park av
Mott, J. L. Iron Works, 118 5th av
Nugent, Thos., 223 E 80th
Richardson & Boynton, 31 W 31st
Richardson-Morgan Co., 239 Water
Southard-Robertson Co. ("Magnetic"), 257 Water
Thatcher Furnace Co., 110 Beekman
Union Stove Works, 70 Beekman
Wear, John B. & Son, 206 E 29th
PEEKSKILL—Union Stove Works
ROCHESTER—Co-Operative Foundry Co.
Enterprise Foundry Co. ("Ariel")
**Galusha Stove Co. ("Norman Phoenix")**
SYRACUSE—**Kelsey Heating Co.**
Syracuse Heater Co.
Syracuse Stove Works **("Kernan-Welcome")**
TROY—**Burdett, Smith & Co.**
**Fuller & Warren Co.**
**Henderson, Frank**
UTICA—**Giblin & Co.**
**Hart & Crouse Co.**
**International Heater Co.**
**Utica Heater Co.**

## OHIO.

AKRON—**May & Fiebeger Co.**
**Taplin-Rice-Clerkin Co. ("Climax")**
Wise Furnace Co. ("Wise")
Twentieth Century Heating & Ventilating Co. ("XXth Century")
ASHTABULA—**Barber Mfg. Co.**
CANTON—**CANTON FOUNDRY & MA**chine Co. ("Imperial" Hot Air Blast) (See adv. index, end of book)
CINCINNATI—Grossius, John Furnace Co., 409 E 8th
Lotze, A. Sons & Co.
Miller, Wm. Range & Furnace Co., 125 E 5th
Peck-Williamson Heating & Ventilating Co. ("Peck-Hammond"), 339 W 5th
CLEVELAND—Bennett Furnace Co. ("Cleveland," "Euclid," "Ohio"), 5801 Euclid av
Forest City Foundry & Mfg. Co. ("Monarch," "Niagara," Hard Coal & Coke)
Mannen & Esterly Co. ("Manest" Combination Coal & Gas), 2247 St. Clair
Smith, W. A. & Co., 625 Champlain
COLUMBUS—Columbus Heating & Ventilating Co. ("Columbia," "U. S.," "Imperial," "Ohio," "O. K.," Coal or Gas, for Schools, Churches, etc.)
Ideal Heating Co.
CRESTLINE—Schill Bros. Co.
DAYTON—National Hot Air Furnace Co. ("Na-
Swift Furnace Co. tional Hustler")
ELYRIA—Fox Furnace Co.
HAMILTON—Estate Stove Co.
MARTINS FERRY—Stanton Heater Co. ("Stanton" Seamless)
MASSILLON—Hess-Snyder Co. ("Boomer")
NEWARK—Simpson Heater Co.
SPRINGFIELD—Patric Furnace Co.
Progress Furnace Co.
TOLEDO—Curran & Firth
YOUNGSTOWN — Youngstown Furnace Co. ("Lion" Combination, "Apex" Bessemer)
Schafer Furnace Co.

## OREGON.

PORTLAND—McPherson, W. G. Co. ("Perfect")

## PENNSYLVANIA.

ALLENTOWN—**Hersh & Bro.**
BRISTOL—**Harkins, T. B. Foundry Co.**
COLUMBIA—**Keeley Stove Co. ("Columbian")**
CONNELLSVILLE—Munson Heater Co.
DANVILLE—**Danville Stove & Mfg. Co.**
ERIE—**Patterson & Stirling**
HARRISBURG—Harrisburg Mfg. & Boiler Co. ("The Hornsburg")
PHILADELPHIA—Cox, Abram Stove Co., cor American & Dauphin
Liberty Stove Co., 114 N 2d
Makin Heating Co., 24 S 7th
Mershon Patent Shaking Grate Works, 1203 Filbert
Mount Penn Stove Works, 111 N 2d
Philadelphia Stove & Iron Fdry Co., 1631
Reynolds, J. & Son, 1613 Filbert 5th
Sheppard, Isaac A. & Co. **("Paragon")**, 1801 N 4th
**Spear, Jas. Stove & Heating Co., 1014 Market**
Thomas-Roberts-Stevenson Co., 3d & Mifflin
Tubular Heating & Ventilating Co. ("Jupiter"), 228 Quarry
PITTSBURG—Stove & Range Co. of Pittsburg
POTTSTOWN — March-Brownback Stove Co. ("Crown")
QUAKERTOWN—**Roberts, Winner & Co.**
READING—Geissler Bros.
**Mount Penn Stove Works**
Reading Stove Works **("Sunshine")**
ROYERSFORD—**Buckwater Stove Co.**
**Floyd-Wells Co. ("Bengal")**
**Grander Stove Co.**
SPRING CITY—**Keystone Stove Foundry**
TITUSVILLE—Hughes, D. D. & Son
UNIONTOWN—**McCrum-Howell Co. ("Richmond"). Main Office, New York**
WARREN—Penna. Furnace & Stove Co. (Gas for Fuel)
Schellhammer & Sons (Gas for Fuel)

## RHODE ISLAND.

PROVIDENCE—Barstow Stove Co.

## WISCONSIN.

MILWAUKEE—Brand Stove Co., 295 6th
Fuller-Warren Co., 32d c Wright
Lindeman, A. J. & Hoverson Co.
Milwaukee Stove & Heater Co.
Mueller, L. J. Furnace Co.
Schwab, R. J. Sons Co.
NEENAH—Bergstrom Stove Co.

## 3885—Furnaces (Japanning)

**KEMP, C. M. CO. (Gas), 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)

## 3886—Furnaces (Jewelers')

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**KEMP, C. M. CO. (Gas), 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
U. S. Gas Furnace Co. (Gas Blast), Providence, R. I.
Westmacott Gas Furnace Co. (Gas Blast), 159 Orange, Providence, R. I.

## 3887—Furnaces (Kerosene)

Barnes Tool Co. ("Archambault"), New Haven, Conn.
**BERNZ, OTTO ("Always Reliable"),** 21 Ashland av, Newark, N. J. (See adv. index, end of book)
Hauck Mfg. Co., 140 Cedar, New York
Mack, Thos. A Mfg. Co. ("Khotal"), Jersey City, N. J.
Turner Brass Works, Sycamore, Ill.

## 3887a—Furnaces (Lead, for Galvanizing Wire)

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

## 3888—Furnaces (Lead Melting)

Best, W. N. & Son, 11 B'way, New York
Focht's, Geo. Sons (Pipe Line), Hoboken, N. J.
Hauck Mfg. Co., 140 Cedar, New York
Hiles, C. A. & Co. (Lead Melting, on Wheels or Legs), 14th & Western av, Chicago, Ill.
Loetzer Valve & Mfg. Co. (Furnace & Lead Pot Mounted on Wheels), Monroeton, Pa.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Mueller, H. Mfg. Co., Decatur, Ill.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
Smith, A. P. Mfg. Co. ("Economic," "O'Brien"), East Orange, N. J.
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
Stuebner, G. L. Iron Works, Long Island City, N. Y.
Union Iron Works, Hoboken, N. J.
U. S. Chaplet & Supply Co. (On Legs or Wheels), 140 Cedar, New York

## 3889—Furnaces (Lead Tempering)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO. (For Oil** or Gas), 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), Empire bldg.** Pittsburg, Pa. (See adv. index, end of book)

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## 3890—Furnaces (Liquid Boiling)

**BEACH-RUSS CO., 55 Green, Brooklyn. N. Y.** (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO. (For Oil** or Gas), 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)

## 3891—Furnaces (Liquid Fuel)

Best, W. N. & Son, 11 B'way, New York
Braun Corporation ("Braun," for Assayers, Mining), Los Angeles, Cal.
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)

## 3892—Furnaces (Magnet Heating)

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart"), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## 3893—Furnaces (Malleable Annealing & Melting)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Hagan, Geo. J., Pittsburg, Pa.
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), Empire bldg.,** Pittsburg, Pa. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3894—Furnaces (Mechanical)

Wedge Mechanical Furnace Co.. ("Wedge"), 115 Chestnut, Phila., Pa.

## 3895— Furnaces (Melting)

(See also Furnaces, Brass & Copper Melting; also Furnaces, Crucible)

Albany Foundry Co. ("Argand," for Hardening Steel by Lead Process & Melting Soft Metals, etc.), Albany, N. Y.
**AMERICAN GAS FURNACE CO., 24** John, New York, & Elizabeth, N. J. (See adv. index, end of book)
American Shop Equipment Co. (Coal, Gas or Fuel Oil), McCormick bldg, Chicago, Ill.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart", for Soft Metal, etc.), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flinn & Dreffein Co. (Gas & Oil), Manhattan bldg. Chicago., Ill.
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Hauck Mfg. Co., 140 Cedar, New York
Hagan, Geo. J., Pittsburg, Pa.
**KEMP, C. M. CO. (Gas), 401 E Oliver,** Baltimore, Md. (See adv. index, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Mircs Fuel-Oil Equipment Co., Norfolk, Va.
Monarch Engineering & Mfg. Co. ("Steele-Harvey" Crucible Tilting), Curtis Bay, Baltimore, Md.
Reed, Chas. J., 23d & Hamilton, Phila., Pa.
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**STARRETT, L. S. CO. (Gas, for Lead** & Soft Metals), Athol, Mass. (See adv. index & branch offices, end of book)
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
Swindell, Wm. & Bro. (Malleable & Foundry), Pittsburg, Pa.
Wellman-Seaver-Morgan Co. ("Wellman," Rolling or Stationary), Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3896—Furnaces (Muffler & Oven)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Bellevue Furnace Co. (Fuel Oil Burning for High Speed Steel), Detroit, Mich.
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Gas or Oil Blast), Lasalle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)
Hagan, Geo. J., Pittsburg, Pa.
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
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*26 Cortlandt St., NEW YORK* *Fisher Building, CHICAGO*


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## 3897—Furnaces (Muffling & Charcoal Sinking)

MacKenzie's, Duncan Sons Co., Trenton, N. J.

## 3898—Furnaces (Oil Blast)

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 3899—Furnaces (Oil Tempering)

Albany Foundry Co., Albany, N. Y.
American Shop Equipment Co., McCormick bldg, Chicago, Ill.
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flinn & Dreffein Co., Manhattan bldg, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO.** ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

## 3900—Furnaces (Open Hearth)

Aetna Foundry & Machine Co., Warren, O.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Hagan, Geo. J., Pittsburg, Pa.
Holcroft & Co., Detroit, Mich.
Laughlin, Alex. & Co. (Continuous Heating), Lewis blk, Pittsburg, Pa.
McClure, G. W. Son & Co., Pittsburg, Pa.
Pennsylvania Engineering Works, New Castle, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Smythe, S. R. Co., Pittsburg, Pa.
Swindell, Wm. & Bros. (Inc.), Pittsburg, Pa.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 3901—Furnaces (Plate Heating)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
**BEST, W. N., 11 B'way, New York.** (See adv. index, end of book)
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO. (For Oil** or Gas for Fuel), 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## 3902—Furnaces (Producer Gas)

(See also Gas Producers)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Combustion Utilities Co., 60 Wall, New York
Flinn & Dreffein Co., Manhattan bldg, Chicago.
Hagan, Geo. J., Pittsburg, Pa. Ill.
Morgan Construction Co., Worcester, Mass.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)

## 3903—Furnaces (Pyrites)

Atlanta Machine Works, Atlanta, Ga.
Larrabee, H. C. & Co., Baltimore, Md.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 3904—Furnaces (Refining & Reducing)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Frankfort"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 3905—Furnaces (Regenerative Gas)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Hagan, Geo. J., Pittsburg, Pa.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Swindell, Wm. & Bro., German National Bank bldg, Pittsburg, Pa.

## 3906—Furnaces (Re-Heating)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Hagan, Geo. J., Pittsburg, Pa.
Macleod, Walter & Co., 213 E Pearl, Cincinnati, O.
**MACLEOD, WALTER & CO. (Gas),** 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church.** New York. (See adv. index, end of book)

## 3907—Furnaces (Revolving Forge)

**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I.
**ROCKWELL FURNACE CO. (Fuel,** Oil, Gas or Coal), 26 Cortlandt. New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO. (Annealing** for Oil, Coal or Gas), 50 Church, New York. (See adv. index, end of book)

## 3908—Furnaces (Rivet Heating)

American Shop Equipment Co., McCormick bldg, Chicago, Ill.
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Gas or Oil Blast), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Hauck Mfg. Co., 140 Cedar, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Monarch Engineering & Mfg. Co. ("Steel-Harvey" Oil), Baltimore, Md.
**ROCKWELL FURNACE CO. (Portable),** 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church.** New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Frankfort"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), Empire bldg.** Pittsburg, Pa. (See adv. index, end of book)

## 3909—Furnaces (Roll Tempering)

Railway Materials Co. ("The Ferguson," Oil as Fuel), Old Colony bldg, Chicago. Ill
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church** New York. (See adv. index, end of book)

## 3910—Furnaces (Rolling & Melting)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
Wellman - Seaver - Morgan Co. ("Wellman"), Cleveland, O.

## Furnaces (Salamander)

(See Salamanders)

## 3911—Furnaces (Saw Hardening)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 3911a—Furnace (Scrap Melting)

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 3912—Furnaces (Sherardizing)

United States Sherardizing Co. (Dry Galvanizing), New Castle, Pa.

## 3912a—Furnaces (Singeing)

**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)

## 3913—Furnaces (Smelting, Roasting, Calsing, Etc.)

**ALLIS - CHALMERS CO. ("McDougall,"** Roasting, etc.), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Coke & Gas Cons. Co. ("O'Brien," Ore Roasting), Camden, N. J.
Arizona & Sonora Mfg. Co. (Wood Fuel), Nogales, Ariz.
Braun Corporation, Los Angeles, Cal.
Chalmers & Williams ("White Howell" Roasting), Chicago Heights, Ill.
Colorado Iron Works Co., Denver, Colo.
Davis, F. M. Iron Works Co., Denver. Colo.
Denver Engineering Works Co., Denver, Colo.
General Chemical Co. ("Herreschoff" Roasting Furnace for De-sulphurizing Ores), 25 Broad, New York
Harron, Rickard & McCone (Inc.), San Francisco. Cal.
Hendy, Joshua Machine Works, San Francisco, Cal.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Manitowoc Engineering Works (Smelting), Manitowoc, Wis.
Mecklenberg Iron Works, Charlotte, N. C.
Mine & Smeleer Supply Co. (No Calsing Furnace), 42 B'way, New York, & Denver, Col.
Nichols Copper Co. ("Herreshoff" Roasting), 25 Broad, New York
Partridge Smelter Co. (Copper Smelters, etc.), Denver, Colo.
Power & Mining Machinery Co. ("Bruecker," "McDowell," Roasting Furnaces, etc.), Cudahy, Wis.
**REEVES BROS. CO. (Roasting, Calsing,** etc.), Alliance, O. (See adv. index, end of book)
Stearns-Roger Mfg. Co. ("Edwards" Ore Roasting), Denver, Colo.
Traylor Engineering Co., Allentown, Pa.
Union Iron Works Co., San Francisco, Cal.
Wedge Mechanical Furnace Co. ("Wedge"), 115 Chestnut, Phila., Pa.
Wellman-Seaver-Morgan Co. (Smelting), Cleveland, O., & Akron, O.

## 3914—Furnaces (Smokeless)

(See also Mechanical Stokers)

American Furnace & Machine Co. ("Swindell" Boiler), Pittsburg, Pa.
Brightman Furnace Co., Cleveland, O.
Burke Furnace Co., 59 Clark, Chicago, Ill.
Climax Smoke Preventer Co., Boston, Mass.
Eureka Smoke Consumer Co., Rochester, N. Y.
Greene, Keechum & Co. ("Sullivan"), 150 Nassau, New York
Hagan, Geo. J., Pittsburg, Pa.

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Harris Smokeless Furnace Co. ("Harris" Smoke Consuming), Nashville, Tenn.
Harrisburg Foundry & Machine Works ("Weitmyer"), Harrisburg, Pa.
Hawley Down Draft Furnace Co., 736 W Monroe, Chicago, Ill.
Herbert, M. E. Heater Co., 140 Root, Chicago, Ill.
Jarvis Engineering Co., Boston, Mass.
Love Bros. (Inc.) (Self Feeding), Aurora, Ill.
McKenzie Furnace Co. (Dutch Oven Magazine), Chicago, Ill.
Model Stoker Co. ("Model" Automatic), Dayton, O.
Murphy Iron Works ("Murphy" Automatic), ft of Walker, Detroit, Mich.
Parsons Engineering Co. ("Parsons," Smoke Consumers), Equitable bldg, Wilmington, Del.
Power Specialty Co. ("Kent"), 111 B'way, New York
Quinn & Co. ("Quinn" Flat Top), Cincinnati, O.
Sargent & Greenleaf Co., Rochester, N. Y.
Sauer Power Generating Co., Pittsburg, Pa.
Scharf, G. H. Co., Ypsilanti, Mich.
Union Standard Furnace Co., 309 B'way, New York
Unique Equipment Co. ("Unique"), Astoria, N. Y.
Wilkinson Foundry & Mfg. Co., Bridgeport, Pa.
Wooley Smokeless Furnace Co., Pittsburg, Pa.

## Furnaces (Soldering)

(See Furnaces; Gasoline Blast; also Furnaces, Kerosene; also Heaters, Soldering Iron)

## 3914a—Furnaces (Special, Fuel Gas)

KEMP, C. M. CO., 401 E Oliver, Baltimore, Md. (See adv. index, end of book)

## 3915—Furnaces (Steel Annealing)

(See Furnaces, Annealing & Case Hardening)

## 3916—Furnaces (Steel Melting)

Best, W. N. & Son, 11 B'way, New York
Hagan, Geo. J., Pittsburg, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch fices, end of book)

## 3917—Furnaces (Sulphur)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Schutte & Koerting Co. (Beet Sugar or Glue, etc.), 1251 N 12th, Philadelphia, Pa.
Wedge Mechanical Furnace Co., 115 Chestnut, Phila., Pa.

## 3917a—Furnaces (Tempering)

(See Furnaces, Annealing & Case Hardening)

## 3918—Furnaces (Tinning)

ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)
ROCKWELL, W. S. CO., 50 Church, New York (See adv. index, end of book)
Turner, Vaughn & Taylor, Cuyahoga Falls, O.

## 3919—Furnaces (Tire Heating)

AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
GILBERT & BARKER MFG. CO., Springfield, Mass. (See adv. index & branch offices, end of book)
Gogel Mfg. Co., Toledo, O.
Hagan, Geo. J., Pittsburg, Pa.
Hauck Mfg. Co., 140 Cedar, New York
Lourie Mfg. Co. ("Economy"), Springfield, Ill.
MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Rochester Tire Heater Co., Rochester, N. Y.
ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)
ROCKWELL, W. S. CO., 50 Church, New York (See adv. index, end of book)
TATE, JONES & CO. (Inc.), Empire bldg., Pittsburg, Pa. (See adv. index, end of book)
Williams, White & Co., Moline, Ill.

## 3919a—Furnaces (Tool Dressing)

ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)

## 3920—Furnaces (Tube Brazing)

Automatic Furnace Co. (Automatic), 1 Madison av, New York
ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)

## 3921—Furnaces (Type Melting)

ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)

## 3922—Furnaces (Varnish Boiling)

ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)

## 3922a—Furnaces (Vertical Treating)

ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)

## 3923—Furnaces (Welding)

American Shop Equipment Co., McCormick bldg, Chicago, Ill.
AMSLER, WALTER O., Wabash bldg, Pittsburg, Pa. (See adv. index, end of book)
BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Flinn & Dreffein Co. (Gas & Oil), Manhattan bldg, Chicago, Ill.
GILBERT & BARKER MFG. CO., Springfield, Mass. (See adv. index & branch offices, end of book)
Hagan, Geo. J., Pittsburg, Pa.
Karthaus Fire Brick Co. ("Neylon" Re-Usable Oil & Gas for Welding Locomotive Frames, etc.), Karthaus, Pa.
KEMP, C. M. CO. (Gas), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)
MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)
ROCKWELL, W. S. CO., 50 Church, New York (See adv. index, end of book)
U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.

## 3924—Furnaces (Welding, Regenative)

AMSLER, WALTER O., Wabash bldg, Pittsburg, Pa. (See adv. index, end of book)
Hagan, Geo. J., Pittsburg, Pa.
MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)
ROCKWELL, W. S. CO., 50 Church, New York (See adv. index, end of book)
TATE, JONES & CO. (Inc.), Empire bldg, Pittsburg, Pa. (See adv. index, end of book)

## 3925—Furnaces (Wire Baking & Annealing)

AMSLER, WALTER O., Wabash bldg, Pittsburg, Pa. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
Hagan, Geo. J., Pittsburg, Pa.
MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)
ROCKWELL, W. S. CO., 50 Church, New York. (See adv. index, end of book)
TATE, JONES & CO. (Inc.), Empire bldg., Pittsburg, Pa. (See adv. index, end of book)
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
WRIGHT WIRE CO., Worcester, Mass.

## 3926—Furnaces (Wood Burning)

(See also Furnaces, Hot Air, Manufacturers)
Berghstrom Bros. & Co., Neenah, Wis.
Dean, Walter R., Oakam, Mass.
Hart & Crouse Co., Utica, N. Y.
International Heater Co., Utica, N. Y.
Lennox Machine Co. (Also for Hard & Soft Coal), Marshalltown, Ia.
Majestic Furnace & Foundry Co., Huntington, Ind.
Miller Furnace Co., Grand Rapids, Mich.
Monroe Foundry & Furnace Co., Monroe, Mich.
Schill Bros. Co., Crestline, O.
Wood & Bishop Co., Bangor, Me.

## 3927—Furniture (Bamboo)

Boston Bamboo Co., 117 Portland, Boston, Mass.
Klein Bros., 520 E 81st, New York
Meinecke, Adolph & Son, Milwaukee, Wis.
Minneapolis Bedding Co., Minneapolis, Minn.
West Branch Novelty Co., Milton, Pa.

## 3928—Furniture (Church & Lodge)

Abramson & Engesser Co., 1971 1st av, New York
Ahmann, M. Church Goods Co., 324 Main, Cincinnati, O.
Ahnapee Veneer & Seating Co. (Veneer Seating, etc.), Algoma, Wis.
Alexander, R., Minneapolis, Minn.
Allen Chair Co., Concord Junction, Mass.
Allen-Totman Co., 90 Canal, Boston, Mass.
American Seating Co. (Seating, etc.), 215 Wabash av, Chicago, Ill.
Andrews, A. H. Co. (Seating, etc.), 174 Wabash av, Chicago, Ill.
Architectural Woodworking Co., 3019 Chestnut, Philadelphia, Pa.
Bent, G. W. & Co. (Cushions & Kneeling Stools), 93 Causeway, Boston, Mass.
De Wolf Furniture Co., Garnett, Kan.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Fridman Seating Co., New Richmond, O.
Frier, Geo. L., Tacoma, Wash.
Frost's Veneer Seating Co. (Veneered Seating), Sheboygan, Wis.
Geissler, R., 56 W 8th, New York
Hackner, E. (Altars, Pulpits, Statuary, etc.), La Crosse, Wis.
Halstrick, Anthony (Sculptor & Carver), 636 South av, Rochester, N. Y.
Hyde-Murphy Co. (Seats, Pulpits, Pew Ends, etc.), Ridgway, Pa.
Lamb, J. & R. (Inc.), 25 6th av, New York
Lausberg & Macke, Louisville, Ky.
Manitowoc Church & School Supply Co., Manitowoc, Wis.
Maxon & Co. (Pews), Westerly, R. I.
Michigan Apparatus Co., Ann Arbor, Mich.
Minneapolis Office & School Furniture Co., Minneapolis, Minn.
Mitchell, Robert, Furniture Co., 624 Race, Cincinnati, O.
Moore Mfg. Co., Springfield, Mo.
N. J. School & Church Furniture Co., Trenton, N. J.
Olcott, J. M., 63 5th av, New York
Pratt, Amasa & Co., Lowell, Mass.
Readsboro Chair Mfg. Co., Readsboro, Vt.
Retting Furniture Co. (Lodge Only), Grand Rapids, Mich.
Rowles, E. W. A., 177 Monroe, Chicago, Ill.
Salisbury Wood-Working Co. (Inc.), Salisbury, Md.
Sanford Sash & Blind Co. (Pews), Sanford, N. C.
Shaw Furniture Co., 81 Causeway, Boston, Mass.
Spencer Desk Co., San Francisco, Cal.
Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.
Standard School Furniture Co., 507 S Clinton, Chicago, Ill.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
Stephens, Thos. & Sons (Inc.), Albany, N. Y.
Thomas & Co., Worcester, Mass.
Tiffin Mfg. Co., (Pews, Pulpits, Altars, Altar Railings, etc.), Tiffin, O.
Tiffany Studios (Special Designs), 347 Madison av, New York
Vauhan-Bonsall Co., Salem, O.
Washington Mfg. Co., Tacoma, Wash.
Weber, C. F. & Co., San Francisco, Cal.
Whitaker & Ray Co., San Francisco, Cal.
Woodman, Joel B. (Pews, etc.), Hoboken, N. J.

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## 3930—Furniture (Dental & Surgical)

American Cabinet Co., Two Rivers, Wis.
Clark & Roberts Co., Indianapolis, Ind.
Harvard Co., Canton, O.
McRae & Roberts Co., Detroit, Mich.
Michigan Lubricator Co., Detroit, Mich.
**Wolf, Fred. W. Co. (Expansion, Gauge, etc.), 141 Rees, Chicago, Ill.**

## 3931—Furniture for Public Buildings

Andrews, A. H. Co., 174 Wabash av, Chicago, Ill.
Art Metal Construction Co. (Metallic), Jamestown, N. Y.
Duker, Otto & Co., Canton av & Albemarle, Baltimore, Md.
**Fridman Seating Co. (Office & Court House), New Richmond, O.**
Hein Furniture Co., Toledo, O.
Matthews Bros. Mfg. Co., Milwaukee, Wis.
Mitchell, Robert Furniture Co., Cincinnati, O.
Mowday, D. L. (Leather Covered), Norristown, Pa.
Revell, A. H. & Co., Wabash av & Adams, Chicago, Ill.
**Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.**
**Tiffany Studios (Special Designs), 347 Madison av, New York**
Wollaeger Mfg. Co., Milwaukee, Wis.

## 3932—Furniture (Hospital)

Bernstein Mfg. Co. (Also All Kinds of Apparatus & Supplies), 3d & Allegheny av, Phila., Pa.
Clark & Roberts Co. (Aseptic), Indianapolis, Ind.
Columbus Aseptic Furniture Co., Columbus, O.
**Quaker City Metallic Bedstead Co., 16th & Wash'n av, Phila., Pa.**
Sargeant Mfg. Co., Muskegon, Mich.

## 3933—Furniture (Knocked Down)

**Bockstege Furniture Co. (Tables, etc.), Evans-**
Cron, L. C. & W. L. Co., Piqua, O. ville, Ind.
**Gunn Furniture Co. (Bookcases), Grand Rapids, Mich.**
**Humphrey Bookcase Co. (Bookcases), Detroit, Mich.**
**Imperial Furniture Co. (Tables, etc.), Grand Rapids, Mich.**
**New Way Furniture Co. (Unfurnished Furniture Parts), Detroit, Mich.**

## 3934—Furniture (Lawn & Porch)

Biscoe Bending & Chair Mfg. Co., Biscoe, N. C.
Crocker Chair Co. (Porch Chairs & Settees), Sheboygan, Wis.
Gendron Wheel Co. (Porch), Toledo, O.
Pratt Mfg. Co., Coldwater, Mich.
Sun Mfg. Co. (Also Camp), Columbus, O.

## 3935—Furniture (Metallic)

(See also Bank & Office Fixtures, Metallic)

Andrews, A. H. Co. (Chairs, Stools, Tables, etc.), 174 Wabash av, Chicago, Ill.
**BERGER MFG. CO., THE, Canton, O.** (See adv. index & branch offices, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buffalo Metal Furniture Mfg. Co., Buffalo.
Canton Art Metal Co., Canton, O. N. Y.
Chicago Wire Chair Co. (Wire or Metal Chairs, Tables, Stools, etc.), 619 Lasalle av, Chicago, Ill.
Corry Metal Furniture Co. (Sheet Metal Beds, Dressers, etc.), Corry, Pa.
Crown Metal Construction Co., Jamestown, N. Y.
**ESTEY WIRE WORKS CO. (Wire),** 59 Fulton, New York. (See adv. index, end of book)
**GENERAL FIREPROOFING CO.** ("Allsteel"), Youngstown, O. (See adv. index & branch offices, end of book)
Interior Metal Mfg. Co., Jamestown, N. Y. N. Y.
Kalamazoo Steel Goods Co., Kalamazoo, Mich.
Library Bureau, Boston, Mass.
Metal Furniture Co., Evansville, Ind.
**National Safe & Lock Co. (For Express Companies), Cleveland, O.**
Penn Construction Co., Marietta, Pa.
Royal Metal Furniture Co., 125 8th, Brooklyn, N. Y.
Royal Metal Mfg. Co. (Weatherproof Chairs, Tables, Stools, etc.), Chicago, Ill.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Toledo Metal Furniture Co. ("Uhl" Art Steel, for Office Equipment, etc.), Toledo, O.
Yesbera Mfg. Co. (Inc.) (Tables, Chairs, & Stools for Stores), Toledo, O.

## 3935a—Furniture Panel Stock

**STEARNS, A. T. LUMBER CO.,** Neponset, Boston, Mass. (See adv. index, end of book)

## 3936—Furniture (Post Office)

Keyless Lock Co., Indianapolis, Ind.
Wollaeger Mfg. Co., 636 N Water, Milwaukee, Wis.

## Furniture (Printers' Wood)

(See Printers' Wood Furniture)

## 3937—Furniture (Rattan & Reed)

**Beyer, J. F., Worcester, Mass.**
**Bishop & Dickinson, Baldwinsville, Mass.**
**Burdell Chain Mfg. Co., Keene, N. H.**
**Capital Rattan Co., Indianapolis, Ind.**
Colony, J. L. Co. (Rattan Chairs), Keene, N. H.
**Conway Chair Co., Conway, N. H.**
**Dickerman, J. A., Gardner, Mass.**
**Dunn, John A. Co., Gardner, Mass.**
Ficks Carriage & Reed Co., Cincinnati, O.
**Gendron Wheel Co., Toledo, O.**
**Hardware & Woodenware Mfg. Co., 693 B'way,**
Hartshorn, C. H., Gardner, Mass. New York
**Hechinger Bros. & Co., Baltimore, Md.**
**Heywood Bros. & Wakefield Co., Gardner, Mass.**
**Jansen, Ed., 112 W 18th, New York**
**Jenkins-Phipps Co., Wakefield, Mass.**
Kelly Bros., Gardner, Mass.
**Kurtz, N. M. Co., San Francisco, Cal.**
**Lattimer, W. H. & Sons, Orwell, N. Y.**
May's Rattan Wks, 3347 N Clark, Chicago, Ill.
**Minneapolis Baby Carriage Co., Minneapolis, Minn.**
National Carriage & Go-Cart Co., Faribault, Minn.
New England Reed Co., Boston, Mass.
Omaha Reed & Rattan Works, Omaha, Neb.
Piel Bros. Mfg. Co., Indianapolis, Ind.
Rattan Mfg. Co., New Haven, Conn.
**Ryan Rattan Chair Co., Grand Rapids, Mich.**
Sons-Cunningham Co., 26 Cherry, New York
Theise, Fred. Mfg. Co., 176 Commercial, Bos-
Virgin, J. M. & Son, Saco, Me. ton, Mass.
White River Chair Co., Brattleboro, Vt.
Ypsilanti Reed Furniture Co., Ionia, Mich.

## 3938— Furniture (School)

Allen Chair Co. (Settees, Folding Chairs, etc.), Concord Junction, Mass.
Allen-Totman Co. (Portable Wood Folding), 90 Canal, Boston, Mass
American Seating Co. (Automatic Desks, Seats etc.), 215 Wabash av, Chicago, Ill.
Andrews, A. H. Co., 174 Wabash av, Chicago,
Caxton Co., 378 Wabash av, Chicago, Ill. Ill.
**Chandler Adjustable Chair & Desk Co., 16f** Devonshire, Boston, Mass.
De Wolf, Geo. N., Garnett, Kans.
Evans, R. & Co. (Also Charts), Green Bay, Wis.
Fritz Mfg. Co. (Desks, etc.), Grand Rapids, Mich.
Frost's Veneer Seating Co., Sheboygan, Wis.
Gage, J. F. & Co. (Seating Desks, etc), Minneapolis, Minn
Grand Rapids Hand Screw Co., Grand Rapids, Mich.
Haney School Furniture Co. (And Supplies), 63 5th av, New York. & Grand Rapids, Mich.
Household Cabinet Works, Providence, R. I.
**Kansas City Furniture & Bedding Manufactory, Kansas City, Mo.**
Manitowoc Church & School Supply Co., Manitowoc, Wis.
Michigan Apparatus Co., Ann Arbor, Mich.
Minneapolis Office & School Furniture Co., Minneapolis, Minn.
Moore Mfg. Co., Springfield, Mo.
N. J. School & Church Furniture Co., Trenton, N. J.
Oklahoma School Desk Mfg. Co., Cherokee, Okla.
Pacific Coast School Furniture Co., Forest Grove, Ore.
Peabody School Furniture Co., N. Manchester, Ind.
Richmond School Furniture Co., 16 Court, Brooklyn, N. Y.
Rowles, E. W. A., 177 Monroe, Chicago, Ill.
Smith, S. A. Co. (Settees Made Same as Desk Seats), Brattleboro, Vt.
Spencer Desk Co., San Francisco, Cal.
Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.
Standard School Furniture Co., 507 S Clinton, Chicago, Ill.
Weber, C. F. & Co., San Francisco, Cal.
Whitaker & Ray Co., San Francisco, Cal.
Woodruff & Edwards Co. (Desks, etc.), Elgin, Ill.

## 3939—Furring & Lathing (Iron)

**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index and branch offices, end of book)
**BERGER MFG. CO. ("Peonglock"** Furring, "Metal Lumber" & "B. B." Expanded Metal Lath), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
McCartney, R. G. (Steel), 622 St. Nicholas av, New York
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Schratwieser Fireproof Construction Co., 426 3d av, Brooklyn, N. Y.
Voss, Fred'k 1852 Austin av, Chicago, Ill.

## Fuse (Railway Signal)

(See Torpedoes & Fuses, Railway Signal)

## 3940— Fuse Links

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
**RICHARDS - WILCOX MFG. CO.** ("Richards" Fire Door), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Underwriters' Hatch Door Co. (For Fire Doors), 1741 Walnut, Chicago, Ill.

## 3940a— Fuse (Safety)

**du PONT, E. I. de NEMOURS POW**der Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 3940b— Fuse Wire

(See Fuses, Enclosed, Indicating; also Fuses, Miscellaneous, Electric)

## 3941— Fuses (Electric)

**du PONT, E. I. de NEMOURS POW**der Co. ("Victor" & "Delay Action"), Wilmington, Del. (See adv. index & branch offices, end of book)

## 3942—Fuses (Enclose, Indicating)

Bryant Electric Co. Electric), Bridgeport, Conn.
Chase-Shawmut Co. (National Electric Code Standard), Newburyport, Mass.
Chicago Fuse Mfg. Co. ("Union"), 1014 W Congress, Chicago, Ill.
D & W Fuse Co. ("D & W" Cartridge or Plug Type), Providence R. I.
Detroit Fuse & Mfg. Co. ("Arkless"), Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO. ("Noark"),** 100 William, New York. (See adv. index & branch offices, end of book)
**JOHNS-PRATT CO., THE ("Noark"),** Hartford, Conn.
Sachs Co., Hartford, Conn.
**WESTINGHOUSE ELEC. & MFG. CO.,** Union B'k bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3943—Fuse (Miscellaneous, Electric)

American Electric Fuse Co. ("American" Mica Fuses), Muskegon, Mich.
Appleton Electric Co. ("Veribest"), 224 Washington, Chicago, Ill.
Central Telephone & Elec. Co. ("Gilgen"), St. Louis, Mo.
Chase-Shawmut Co., Newburyport, Mass.

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Chicago Fuse Mfg. Co. ("Union"), 1014 W Congress, Chicago, Ill.
Cook, Frank B., 240 W Lake, Chicago, Ill.
Detroit Fuse & Mfg. Co. ("Arkless"), Detroit,
Electrical Alloy Co., Morristown, N. J. Mich.
Electric Alloy Co., Morristown, N. J.
Freeman, E. H. Electric Co., Trenton, N. J.
**GENERAL ELECTRIC CO. ("Ferguson"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Hartwig, Wm. J. Co., Detroit, Mich.
Harvard Electric Co. ("Standard," "Greer"), 525 W Van Buren, Chicago, Ill.
Helios Mfg. Co., Phila., Pa.
**JOHNS-PRATT CO., THE ("Noark"),** Hartford, Conn.
McIntire, C. Co., 1 Franklin, Newark, N. J.
Nagel-Chase Mfg. Co., 141 W Ohio, Chicago, Ill.
Paiste, H. T. Co. ("H. & L."), Arch & 32d. Phila., Pa.
Weber Electric Co., 131 State, Boston, Mass.
**WESTINGHOUSE ELEC. & MFG. CO.,** Union B'k bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 3943a— Gadders (Air)

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 3944— Gaggers

Franklin Core Rod & Gagger Co. ("Franklin" Twisted Steel, for Foundrymen), Franklin, Pa.

## 3945— Galleries (Riding)

(See also Carousels, Organs, Etc.)

Gillie Machine Co., Tonawanda, N. Y.
Herschell. Spillman & Co., N Tonawanda, N.Y.
Parker C. W., Abilene, Kans.

## 3946—Galvanizing (Dry Process)

United States Sherardizing Co. ("Sherardizing," Furnace), New Castle, Pa.

## 3947—Galvanizing (Electro)

Fries, A. G. Plating Co., Buffalo, N. Y.

## 3948—Galvanizing (Gold Process)

Bossert Co., Utica, N. Y.
Bridgeport Electroplate Co. (Electro), Bridgeport, Conn.
California Industrial Co., Los Angeles, Cal.
Hanson & Van Winkle Co., Newark, N. J.
Indiana Galvanizing & Mfg. Co., Anderson, Ind.
Kansas City Galvanizing & Mfg. Co., Kansas City, Mo.
Pittsburg Electro Galvanizing Co., Pittsburg Pa
United States Electro Galvanizing Co. (Plants Installed), 3 Park av, Brooklyn, N. Y.
Wilmington Electro Plating Co., Wilmington Del

## 3949—Galvanizing (Hot Process)

**ABENDROTH & ROOT MFG. CO.** (Two Baths, each 2 ft. 6 in. x 4 ft. 0 in. x 23 ft. 0 in.), Newburgh, N. Y. (See adv. index & branch offices, end of book)
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Grey Iron Foundry Co., Reading, Pa.
National Galvanizing Co., 1918 Carroll av, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Watrous, E. L. Co. ("Watrous," Process), Des Moines, Ia.

## 3950—Galvanizing Plants (Complete)

Meaker Co. ("Meaker" Process), 218 N Elizabeth, Chicago, Ill.
**ST. PAUL ROOFING, CORNICE & ORnament** Co., St. Paul, Minn. (See adv. index, end of book)
**WILFONG, MILLARD F., IRON** Works Co., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

## 3951— Galvanizing Works

(See also Tinning & Japanning)

**ABENDROTH & ROOT MFG. CO.** (For Large or Small Works), Newburgh, N. Y. (See adv. index & branch offices, end of book)
American Foundry & Mfg. Co., St. Louis, Mo.
American Iron & Steel Mfg. Co., Lebanon. Pa.
American Tube & Stamping Co., Bridgeport. Bossert Co., Utica, N. Y. Conn.
**Boston Galvanizing Works, 121 W. 1st, Boston**
Buffalo Galvanizing & Tinning Works (Also Tinning), 79 Jackson, Buffalo, N. Y
Buhl Stamping Co. (also Tinning), Detroit. Mich.
California Industrial Co., Los Angeles, Cal.
Central Stamping Co., 174 Fulton, New York
Cleveland Galvanizing Works Co., Cleveland, O.
Cuyler & Mohler, Balto, Md.
Devlin, Thos. Mfg. Co., 3d & Lehigh av., Phila., Pa.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Finn, Jno. Metal Works, San Francisco, Cal.
Ford & Johnson. Chicago, Ill.
Fries, A. G. Plating Co. (Electro Galvanizing), Buffalo, N. Y.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Grabler Mfg. Co., Cleveland, O.
Gregory, Thomas Galvanizing Works, 263 N Henry, Brooklyn, N. Y.
Hill, Jas. Mfg. Co., Providence, R. I.
Hubbard & Co., Pittsburg, Pa.
Hunt Metal Corner Co. (Hot Process), Westboro, Mass.
Illinois Malleable Iron Co., 1801 Diversey boul., Chicago. Ill.
Indiana Galvanizing & Mfg. Co., Anderson, Ind.
Jersey City Galvanizing Co., 112 John, New York, & 80 Morgan, Jersey City, N. J.
Kansas City Galvanizing & Mfg. Co., Kansas City, Mo.
Keystone Nail Co., Pittsburg, Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. Works, Jersey City, N. J. (See adv. index, end of book)
Lanz, Mathew & Sons, 101 S 29th, Pittsburg.
Laughlin, Thos. Co., Portland, Me. Pa.
Lefferts' Galvanizing Works, 508 E 20th, New York
McChance Bros. Co. (Hoops, Bands, Bars, Spikes, etc.), Pittsburg, Pa.
Malleable Iron Fitting Co. (Also Tinning & Japanning). Branford, Conn.
Marine Hardware & Equipment Co., South Portland, Me.
Meaker Co., 218 N Elizabeth, Chicago, Ill.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Murphy, P. H. Mfg. Co., East St. Louis, Mo.
National Galvanizing Co. (Hot Process), 1918 Carroll av, Chicago, Ill.
tion), 891 N Front. Phila., Pa.
National Galvanizing Co. (Hot Process), 1922 Carroll av, Chicago, Ill.
New England Bolt & Steel Co., Everett, Mass.
Oliver, Wilbur C., Bath. Me.
Palmer & De Mooy Foundry Co., Cleveland, O.
Pittsburg Electro Galvanizing Co., Pittsburg,
Pittsburg Galvanizing Co., Pittsburg, Pa. Pa.
Porter Metal Works, San Francisco, Cal.
Republic Metalware Co., Buffalo. N. Y.
Rockford Galvanizing Works, Rockford, Ill.
Rogers Bros. Galvanizing Works, Rockford, Ill.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Simpson, W. T. & Co., Cincinnati, O.
United States Electro-Galvanizing Co., 3 Park av, Brooklyn, N. Y.
Watrous, E. L. Co., Des Moines, Ia.
White Mountain Freezer Co. (Also Tinning), Nashua, N. H.
Wilcox, Crittenden & Co. (& Tinning), Middletown, Conn.
Wilmington Electro Plating Co., Wilmington,
Woodman, Geo. Co., Boston, Mass. Del.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 3952—Galvanizing & Tinning Plants (Wire Mill)

Morgan Construction Co., Worcester, Mass.
**WRIGHT WIRE CO., Worcester, Mass.**

## 3953—Galvano-Bronze Work

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**JACKSON, WM. H. COMPANY, 29 E** 17th (Union sq), New York. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eg**gleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)

## 3954—Galvanometers & Bridges

Bunnell, J. H. & Co., Park pl & Church, New York
Century Electrical Co., Syracuse, N. Y.
**du PONT, E. I. de NEMOURS POW**der Co. ("Du Pont" Galvanometers). Wilmington, Del. (See adv. index & branch offices, end of book)
Foote, Pierson & Co. ("Delta"), 160 Duane,


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# Galvanizing Kettles
# Galvanizing Plants

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KETTLES CARRIED IN STOCK

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**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gurley, W. & L. E., Troy, N. Y. New York
**LEEDS & NORTHRUP CO. ("Kelvin"** "D'Arsonvall," Galvanometers & "Kohlrausch," "Carey - Foster," "Hoopes," Bridges), Stenton av, Gtn., Phila., Pa. (See adv. index, end of book)
Manufacturers & Inventors Electric Co. ("Troy"), 29 Gold, New York
Minerallac Co., Chicago, Ill.
Pearce, Frederick Co., 18 Rose, New York
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Reliance Instrument Co., 60 W Van Buren, Chicago, Ill.
Roller-Smith Co., 203 B'way, New York; Wks.: Bethlehem, Pa.
Thompson-Levering Co. ("Peerless"), 246 Arch, Phila., Pa.
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 3955— Gang Rippers

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg. N. Y.
Garland, M. Co., Bay City, Mich.
Standard Saw Mill Machinery Co., Erie, Pa.
Union Iron Works, Bangor, Me.

## 3955a—Ganister (Ground)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 3956— Ganister (Mixture)

**AMERICAN REFRACTORIES CO.,** 125 Clark, Chicago, Ill. (See adv. index, end of book)

## 3957—Garages (Portable Fireproof)

Columbian Steel Tank Co., Kansas City, Mo.
Harry, O. K. Steel Co., St. Louis, Mo.
Kanneberg Roofing & Ceiling Co., Canton, O.
Metal Shelter Co. ("Pruden" Galvanized Steel), St. Paul, Minn.

## 3958—Garbage Burners (Water Heating)

Herbert, M. E. Heater Co., 140 Root, Chicago, Ill.
**KEWANEE BOILER CO. ("Kewanee"),** Kewanee, Ill. (See adv. index & branch offices, end of book)
Prox, Frank Co., Terre Haute, Ind.

## 3958a—Garbage Cans (Seamless Pressed Steel)

**PRESSED STEEL TANK CO., Milwaukee, Wis.** (See adv. index, end of book)

## 3959—Garbage Disposal Plants

(See also Sewage Disposal Plants)

American Extractor Co., Providence, R. I.
American Reduction Co., Pittsburg, Pa.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Buffalo Engine Co. (Machinery for), Buffalo, N. Y.
Cragin, Morgan J. (Combined Garbage, Crematory & Hot Water Heater), 746 E 43d, Chicago, Ill.
**CUMMER, F. D. & SON CO., The Arcade,** Cleveland, O. (See adv. index, end of book)
Decaire Incinerator Co. ("Decaire"), Hopkins, Minn.
Dixon Garbage Crematory Co., Toledo, O.
Edison Reduction Machinery Co. (Garbage Reduction), Cleveland, O.
Garrigues, W. E., 1123 B'way, New York
**GRISCOM-SPENCER CO., 90 West, New York.** (See adv. index & branch offices, end of book)
Illinois Malleable Iron Co. ("Imico"), 1801 Diversey blvd, Chicago, Ill.
Jarvis Engineering Co., 61 Oliver, Boston, Mass.
**KUTZTOWN FOUNDRY & MACHINE CO.,** 116 N Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Lewis & Kitchen, 1200 Michigan av, Chicago, Ill.
Morse-Boulger Destructor Co., 39 Cortlandt, New York
Municipal Engineering Co., 237 B'way, New York
Penna. Construction Co., Marietta, Pa.
Power Specialty Co. ("Heenan," "Destructor"), 111 B'way, New York
Redfield, Rob't S. & Co., 90 West, New York
Sanitary Product Co., Fidelity bldg, Phila., Pa.

## 3960—Gas Analysis Apparatus

Bausch & Lomb Optical Co., Rochester, N. Y.
Eimer & Amend ("Barnhart's," "Drehschmidt's," "Ruedorff's," "Reich's," "Pettersen's" & "Palmquist's"), 18th & 3d av, New York
Greiner, Emil Co. ("Orsat," "Hempel's"), 45 Cliff, New York
Sargent, E. H. & Co. ("Morehead's" Gas-Burette & "Wm. Brady's" Gas Filter), 143 Lake, Chicago, Ill.
Scientific Materials Co., Pittsburg, Pa.

## 3961—Gas Bags (Rubber)

Cleveland Rubber Works, Cleveland, O.
Davidson Rubber Co., Boston, Mass.
Davol Rubber Co., Providence, R. I.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
National India Rubber Co., Bristol, R. I.
Peerless Rubber Mfg. Co., 16 Warren, New York
Tyer Rubber Co., Andover, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 3962—Gas (Carbonic Acid)

Sarco Fuel Saving & Engineering Co., 90 West, New York
Uehling Instrument Co., Passaic, N. J.

## 3963— Gas Composimeters

Western Chemical Mfg. Co. (Liquid), Denver, Colo.

## Gas Fixtures

(See Gas & Electric Fixtures, Manufacturers)

## 3964—Gas Fixtures (Acetylene)

Davis Acetylene Co., Elkhart, Ind.

## 3965—Gas Fixtures (Wrought Iron)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Haack, Louis, 206 E 19th, New York
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO., Mt.** Vernon, N. Y. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Perelson, L., 194 Hester, New York
Rose & Hastie, 754 Lexington av, Brooklyn, N. Y.
**SCHREIBER, L. & SONS CO., 8th & Eggleston** av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**STANDARD CO., Railway Exchange bldg.,** Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
Williams, Jno., 556 W. 27th, New York
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## Gas Heating & Cooking Stoves

(See Stoves, Heaters & Ranges, Gas)

## 3966— Gas Holders

Bartlett, Hayward & Co., Baltimore, Md.
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
Chicago Bridge & Iron Works, 105th & Throop, Chicago, Ill.
Connery & Co., 9th & Master, Phila., Pa.
Continental Iron Works, West & Calyer, Brooklyn, N. Y.
Cruse-Kemper Co., Ambler, Pa.
Davis & Farnum Mfg. Co., Waltham, Mass.
Deily & Fowler, 39 Laurel, Phila., Pa.
Dillon, D. M., Fitchburg, Mass.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Hamler Boiler & Tank Co., 3906 S Halsted, Chicago, Ill.
Heilman Boiler Works, Allentown, Pa.
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Kerr-Murray Mfg. Co., Ft. Wayne, Ind.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Stacey Mfg. Co., Elmwood pl., Cincinnati, O.
Western Gas Cons. Co., Fort Wayne, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 3966a— Gas Irons

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)

## 3966b—Gas Lighters (Pneumatic)

Pneumatic Gas Lighting Co., 150 Nassau, New York

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## 3967— Gas (Oxygen)

**American Oxygen Co., Perry bldg, Phila., Pa. Works, Camden, N. J.**
Davis-Bournonville Co., 90 West, New York
Industrial Oxygen Co., Hanover Bank bldg, New York
Roessler & Hasslacher Chemical Co., 100 William, New York
Siemens & Halske, 50 Church, New York

## 3967a—Gas Plants Installed

(See Gas Works Apparatus & Construction)

## Gas Portables

(See Gas & Electric Portables)

## 3967b—Gas Producer Power Plant (Designer & Constructor of)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 3968— Gas Producers

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Furnace & Machine Co. ("Swindell" Producers & Valves), Pittsburg, Pa.
**AMSLER, WALTER O. ("Amsler,"** Power or Hand Operated), Wabash bldg, Pittsburg, Pa. (See adv. index, end of book)
Backus Water Motor Co. (Suction), Newark, N. J.

**JAMES BEGGS & CO.**
**(Complete Producer Gas Plants), Liberty & Church, New York**

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**De La Vergne Machine Co. ("Koerting"),** ft E 138th, New York
Dornfeld-Kunert Co. ("Atkinson" Suction & Pressure), Watertown, Wis.
**Duff Patents Co. ("Duff" & "Bradley" Patents), Frick bldg, Pittsburg, Pa.**
**Eynon-Evans Mfg. Co., Clearfield c N 15th, Philadelphia, Pa.**
**FAIRBANKS, MORSE & CO. (Suction).** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flinn & Dreffein Co. (Petroleum & Water Producer Gas Plants for Fuel & Power). Manhattan bldg, Chicago, Ill.
Foos Gas Engine Co., Springfield, O.
Fort Wayne Foundry & Machine Co., Fort Wayne, Ind.
Forter-Miller Engineering Co. ("Forter" Water Seal, Hand Operated), Pittsburg, Pa.
Gas Machinery Co., Cleveland, O.
Gibbs Gas Engine Co. ("Akerlund" Bituminous). Atlanta, Ga.
Hagan, Geo. J., Pittsburg, Pa.
Heggie, James G., Joliet, Ill.
**Hill-Hupfel Engineering Co. ("Hill" Anthracite), 30 Church, New York**
Holcroft & Co., Detroit, Mich.
Holbeck-Riverside Gas Power Co. ("Holbeck"), Oil City, Pa.
**Industrial Gas Power Co. ("Atkinson" Automatic), Caswell blk, Milwaukee, Wis.**
International Harvester Co. of America, Chicago, Ill.
**KEMP, C. M. CO. ("Twentieth Century" Naptha Gas Producer for Fuel), 401** E Oliver, Baltimore, Md. (See adv. index, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHIN-** ery Co. ("Muenzel," Suction), Minneapolis, Minn. (See adv. index & branch offices, end of book)
Morgan Construction Co. (Furnaces & Kilns), Worcester, Mass.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**POWER & MINING MACHINERY CO.** ("Loomis-Pettibone" Gas Apparatus for Power Plants, etc.), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
**Rose Mfg. Co. ("Neverout" Invertible), 911** Arch, Phila., Pa.
Sauer Power Generating Co., Pittsburg, Pa.
Seager Engine Wks. ("Pintsch" Suction), Lans-
Sharon Boiler Works, Sharon, Pa. ing, Mich.
Smith Gas Power Co. ("Smith" Automatic Suction), Lexington, O.
Smythe, S. R. Co. ("Standard," for Fuel or Power), Pittsburg, Pa.
Steacy-Schmidt Mfg. Co., York, Pa.
**STRUTHERS-WELLS CO. ("Warren"** Suction), Warren, Pa. (See adv. index, end of book)
Swindell, Wm. & Bros. ("Swindell," for Steel & Iron Work), German Nat'l Bank bldg, Pittsburg, Pa.
Syracuse Industrial Gas Co. (For Anthracite Coal), Vernon, N. Y.
Wellman-Seaver-Morgan Co. ("Hughes" Mechanical or Hand Operated), Cleveland, O., & Akron, O.
**WESTINGHOUSE MACHINE CO. (for** Power Plants), Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)
Wood, R. D. & Co. ("Taylor" & "Mond," also Plants for Operating Gas Engines), 400 Chestnut, Phila., Pa.

## 3969—Gas Producers (Water Seal)

American Furnace & Machine Co. ("Swindell," Water Seal & Drop Grate), Pittsburg, Pa.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Duff Patents Co., Pittsburg, Pa.
Flinn & Dreffein Co., Manhattan bldg, Chicago, Ill.
Forter-Miller Engineering Co. ("Forter," Trump Mechanical), Pittsburg, Pa.
Hagan, Geo. J., Pittsburg, Pa.
Laughlin, Alex & Co., Pittsburg, Pa.
Morgan Construction Co., Worcester, Mass.
**POWER & MINING MACHINERY CO.** ("Loomis-Pettibone" Gas Apparatus for Power Plants, etc.), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Smythe, S. R. Co. (With Grates, also Grateless), Pittsburg, Pa.
Steacy-Schmidt Mfg. Co., York, Pa.
Swindell, Wm. & Bros., Pittsburg, Pa.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 3970—Gas Shut-Off (Automatic)

**Lord, L. L. Co., Meadville, Pa.**

## 3972—Gas Washer, Boiler & Burner (Combined)

Weimer Machine Works Co., Lebanon, Pa.

## 3973—Gas Works Apparatus & Construction

(See also Benches, Gas Retort; also Retorts, Gas)

**American Coke & Gas Construction Co., Camden, N. J.**
**Bartlett, Hayward & Co. (Coal & Water Gas), Baltimore, Md.**
Connelly Iron Sponge & Governor Co., 127 Duane, New York
**Continental Iron Works, West & Calyer, Brooklyn, N. Y.**
Deily & Flower, 39 Laurel, Phila., Pa.
Foos Gas Engine Co., Springfield, Ohio
Gas Machinery Co., Cleveland, O.
**Improved Equipment Co., 60 Wall, New York**
Isbell-Porter Co., Newark, N. J.
**Kerr-Murray Mfg. Co., Fort Wayne, Ind.**
Lloyd Construction Co., Detroit, Mich.
Phoenix Gas & Improvement Co. ("Janeway"), Harrison bldg, Phila, Pa.
Quintard Iron Works Co., 12th & E R, New
Riter-Conley Mfg. Co., Pittsburg, Pa. York
Stacey Mfg. Co., Elmwood pl, Cincinnati, O.
United Gas Improvement Co., Broad & Arch, Phila., Pa.
Western Gas Cons. Co., Fort Wayne, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 3974—Gas & Electric Fixture Mfrs.

### CALIFORNIA.

LOS ANGELES—Forve-Pettibone Co.
Forve-Pettibone Co.
Hutchison, W. G., Co.
Meyberg Co.
SAN FRANCISCO—Adams & Hollopeter, 745 Mission
California Gas Fixture Co., 357 Ellis
Coefield Co. (Inc.), 51 Shipley
Day, Thomas Co., 725 Mission
Hufschmidt, L. A., Mfg. Co., 558 McAllister
Roberts Mfg. Co., 857 Mission

### COLORADO.

DENVER—Sechrist, Albert Mfg. Co.

### CONNECTICUT.

MERIDEN—Bradley & Hubbard Mfg. Co.
Brenner Bros. Mfg. Co.
Miller, Edw. & Co. (Mfrs., etc.)
WATERBURY—Brenner, R. Mfg. Co.
Waterbury Mfg. Co.


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## ILLINOIS.

CHICAGO—Acme Metal Mfg. Co., 549 W Monroe
Antique Metal Mfg. Co., 421 La Salle
Baggott, E. Co., 45 E Lake
Beardslee Chandelier Mfg. Co., 225 S Clinton
Braun, David J. Mfg. Co., 668 W Wash'n
Central Chandelier Co., 1547 Fulton
Chicago Gas & Electric Fixture Mfg. Co., 128 N Jefferson
Chicago General Fixture Co., 45 Lake
Edwards, W. S. Mfg. Co., 21 Lake
Federal Light & Supply Co., 1736 Ogden av
Lau, W. H., 26 Lake
Metallic Mfg. Co., 745 E 39th
Moran & Hastings Mfg. Co., 61 Wash'n
Tietjen, Falk & Co., 550 W Van Buren
Williamson, R. & Co., 609 W Washington
Wilmarth, T. W. Co., 314 W Superior
Wingrave & McNaughton Co., 180 Wabash av
DECATUR—Faries Mfg. Co. (Adustable)
ELGIN—Elgin Brass & Electrical Mfg. Co.
ST. CHARLES—Crown Electric Mfg. Co.

## INDIANA.

INDIANAPOLIS—Ameshaensel, C. & Co.
Meikel, C. W. Co.
MUNCIE—Retherford Bros.

## MARYLAND.

BALTIMORE—Good & Craft, 509 Jasper
Kries, Michael A., 305 W Lombard
Walther, Geo. W. & Co., 208 W Fayette

## MASSACHUSETTS.

BOSTON—Berne, H. N. & Co.
Bigelow, Kennard & Co.
Finch, J. H., 421 Atlantic av
McKenney & Waterbury Co., 181 Franklin
Shreve, Crump & Low Mfg. Co., 16 Randolph
NEW BEDFORD—Pairpoint Corporation
WORCESTER—White, O. C. Co.

## MICHIGAN.

COLDWATER—Champion Brass Works
DETROIT—Detroit Chandelier & Lamp Co.
Detroit Heating & Lighting Co. (Gas Fixtures Only)
Detroit Gas & Electric Fixture Co.
KALAMAZOO—National Gas Light Co.

## MINNESOTA.

MINNEAPOLIS—Andresen, Jacob & Co.
Frederickson Chandelier Mfg. Co.
Minneapolis Gas Fixture Co.
ST. PAUL—Minnesota Chandelier Co.

## MISSOURI.

ST. LOUIS—Bredsvold Mfg. Co., 305 Lucas av
Gross-O'Reilly Chandelier Co.
Kraushaar Brass Mfg. Co., 2507 N B'way
St. Louis Brass Mfg. Co.
Sellner Gas & Electric Fixture Mfg. Co., 703 Locust

## NEW JERSEY.

BRIDGETON—Acme Gas Fixture Co.
Crescent Art Metal Co.
CAMDEN—Camden Gas Fixture Works
HOBOKEN—Lutz, Alois M.
JERSEY CITY—Gothberg, H. & E., Mfg. Co., 139 Cator av
N. Y. & N. J. Chandelier Co., 1131 Summit av
NEWARK—Davidson, Chas.
Jaehnig Gas Fixture Co., 221 13th av
Newark Gas & Electric Fixture Co., 157 Bruce
Penn, H. M. Co.
Storsberg, Fritz, 20 Atlantic
United States Gas Fixture Co.
PATERSON—Strutt, Wm., 349 Main

## NEW YORK.

BUFFALO—Art Gas & Electric Fixture Co. 312 Pearl

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Baldinger & Kupferman, 59 Harrison av
Findlay, Robert Mfg. Co., 349 Adams
Gaites, Peace & Co., 661 Manhattan
Goldberg, Morris, 69 Whipple
Luckett, Frederick, 266 State
May, Sylvester, 98 Schermerhorn
Nichols Gas Fixture Mfg. Co., 1100 Myrtle av
Rose & Hastie, 754 Lexington av
Shapiro & Aronson, 26 Morton
Staines, Bunn & Taber Co., 284 Livingston
Vosburg, W. C. Mfg. Co., 93 Underhill av
Walbroehl & Co., 352 Knickerbocker av
White, J. H. Mfg. Co., 111 N 3d

### Boroughs of Manhattan & Bronx.

NEW YORK—Albert Gas Fixture Co., 707 3d av
American Brass & Copper Co., 138 Lafayette av
Black & Boyd Mfg. Co., 23 E 22d
Blanchard & Kelly, 157 E 128th
Blatt, S., & Co., 135 Mangin
Caldwell, Edw. F. & Co., 38 W 15th
Cassidy & Son Mfg. Co., 135 W 23d
Central Chandelier Co., 15 Crosby
Century Gas & Electric Fixture Co., 180 Grand
Colonial Chandelier Works, 210 Canal
Consolidated Chandelier Co., 231 Bowery
Dale Co., 352 W 13th
Drescher, Rotberg Co., 2336 3d av
Eisenberg, M., & Son, 165 Grand
Empire Brass Works, 329 E 26th
Empire Gas Fixture Co., 140 Sullivan
Enos Co., 7th av & 16th
Eureka Chandelier Co., 223 Grand
Ideal Gas & Electric Fixture Co., 224 Canal
Iden & Co., 46 University pl
JOHNS, H. W.-MANVILLE CO. (Electric Only), 100 William. (See adv. index, end of book)
Keystone Gas Fixture Co., 207 E 49th
Lahr & Co., 154 W 27th
McCoy, J. B. & Son, 118 W 30th
Miller, Edw. & Co., 80 Warren
Mitchell-Vance Co., 503 W 24th
New York Pioneer Mfg. Co., 161 Washington
Nolan, Dennis J., 480 Pearl
Ornamental Art Metal Works, 216 W Houston
Pellegrini, A. & Co., 155 W 29th
Plaut, L. & Co. (For the Trade Only), 432 E 23d


IMPORTANT

When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible. .. .. .. .. ..

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Reading Hardware Co. (Chandeliers), 50
Roeser & Sommer, 386 2d av Franklin
Shapiro & Aronson, 20 Warren
Sterling Bronze Co., 107 W 25th
Tiffany Studios, 347 Madison av
Union Gas Fixture Co., 240 W 27th
Union Gas & Electric Fixture Co., 69
U. S. Gas Fixture Co., 205 Centre Wooster
Wahle-Phillips Co., 549 W 52d
Walsh, Owen Mfg. Co., 80 Barclay

**(End of New York City)**

UTICA—Utica Brass Works
Utica Fixture Co.

## OHIO.

CINCINNATI—Lavercombe Co., 307 E 5th
Gas Fixture & Brass Co.
Morreau Gas Fixture Mfg. Co.
Ohio Gas & Electric Fixture Mfg. Co.
COLUMBUS—Federal Mfg. Co.
CONNEAUT—Tungstolier Co.
TOLEDO—Toledo Chandelier Mfg. Co.
Western Gas Fixture Co., 611 St. Clair
TROY—Metallic Novelty Co.
VERMILON—Wakefield Brass Co.

## PENNSYLVANIA.

PHILADELPHIA—*Bauer Gas Fixture Wks (Inc.), 450 N 12th
Columbia Gas Fixture Co., 148 N 4th
Federal Gas Fixture Works, 1427 Catharine
Frankford Gas Fixture Co., 4270 Frankford
Gibson Gas Fixture Works, 1426 Callowhill
Giese Mfg. Co., 260 S 5th
Grell Gas Fixture Works, 812 Noble
Heller, C. B., 622 Arch
Horn & Brannen Mfg. Co. (Inc.), 427 N Broad
Lawrence Gas Fixture Mfg. Co., 12th c Cherry
Lloyd-Garrett Co., 141 S 15th
Modern Gas Fixture Co., 621 Cherry
Reliance Mfg. Co., 1318 Arch
Sterling Bronze Co., 1513 Walnut
Warner Gas Fixture Co., 229 N 6th
Sulzer & Co., 252 N 11th
PITTSBURG—Frederick-Elder Co., 422 1st av
Pittsburg Gas & Electric Fixture Co., 428 Penn av
READING — Reading Hardware Co. (Chandeliers)

## RHODE ISLAND.

PROVIDENCE—Carpenter, H. T. & Co.
Shirley, Jno. R. & Sons

## WISCONSIN.

MILWAUKEE—Polacheck, Chas. & Bros. Co.

## 3975—Gas & Electric Light Portables

Amboy Works, Perth Amboy, N. J.
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Excelsior Brass Works, Reading, Pa.
Farles Mfg. Co. (Adjustable), Decatur, Ill.
Gail-Webb Mfg. Co. (Adjustable), Buffalo, N. Y.
Goodwin & Kintz Co. (Gas), Winsted, Conn.
Kraushaar Brass Mfg. Co. (Adjustable, also Newels or Portables), St. Louis, Mo.
Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rose & Hastie, 754 Lexington av, B'klyn, N. Y.
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 3976—Gas & Water Works Supplies

(See also Cast Iron Pipe Manufacturers, Gas & Water; also Valves, Gate for Water Mains)

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barnes Mfg. Co., Mansfield, O.
Behringer, Edward A. (General Supplies for Gas Works), 104 Reade, New York
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Cornell & Underhill, Greenwich & Spring, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Drummond, M. J. & Co., 182 B'way, New York
Fitts, Frank E. Mfg. Co. & Supply Co., 88 Purchase, Boston, Mass.
Fox, Jno. & Co. (Mfrs.' Agts.), 253 B'way, New York
Gilchrist, Geo. E. Co., 106 High, Boston, Mass.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Kelly & Jones Co., Pittsburg, Pa.
Miller, Chas. & Son Co., Utica, N. Y.
Moser Mfg. Co., Dallas, Tex.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**SIMMONS, JOHN CO., 110 Centre,** New York. (See adv. index, end of book)
Roots, P. H. & F. M. Co., Connersville, Ind.
Smith, A. P. Mfg. Co., Newark, N. J.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Western Iron Works, San Francisco, Cal.

## 3976a— Gasket Tubing

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
**CONTINENTAL RUBBER WORKS,** Erie, Pa. (See adv. index & branch offices end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 3977—Gasket (Amonnia Fitting)

**AMERICAN-GOETZE GASKET & Packing Co.** ("Goetzerit"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 3978—Gaskets (Asbestos)

(For All Other Non-Metallic Gaskets, See Gaskets, Gum, Fibrous, etc.; also Fibre Manufacturers, Hard; also Packing Manufacturers; also Packing, Metallic)
American Asbestos Co. (Metallic), Norristown, Pa.
**AMERICAN-GOETZE GASKET & Packing Co.** ("Goetzerit"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Anchor Packing Co. ("Ankorite"), Gtn. & Allegheny avs, Phila., Pa.
Asbestos Fibre Spinning Co. (All Kinds), North Wales, Pa.
Calmon Asbestos & Rubber Works of America ("Asbestolith"), 102 Reade, New York
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Goodwin & Kintz Co. (Asbestos & Copper) Winsted, Conn
**JOHNS, H. W.-MANVILLE CO.** (Also Rubber), 100 William, New York. (See adv. index & branch offices, end of book)
**JOHNS-PRATT CO., THE ("Vulcabeston"),** Hartford, Conn.
Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co. ("Gladiator" Asbestos & Copper Combined), Camden, N. J.
Oil City Asbestos Co., Oil City, Pa.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's" Tisafine), 48 Franklin, New York. (See adv. index, end of book
**WATSON, H. F. CO. (Asbestos & Rubber Cloth, Metallic),** Erie, Pa. (See adv index & branch offices, end of book)

## Gaskets (Asbestos Metallic)

(See Gaskets, Metallic, With the Words Asbestos-Metallic Following Their Name)

## Gaskets (Copper)

(See Gaskets, Metallic)

## Gaskets (Corrugated Copper)

(See Gaskets, Metallic)

## 3978a—Gaskets (Elastic, Corrugated with Asbestos Lining, No. 2)

**AMERICAN-GOETZE GASKET & Packing Co.** ("Goetze's"), 46 Paterson, New Bruswick, N. J. (See adv. index, end of book)

## 3979—Gaskets (Gauge Glass)

Anchor Packing Co. ("Brooks"), Gtn. & Allegheny avs, Phila., Pa.

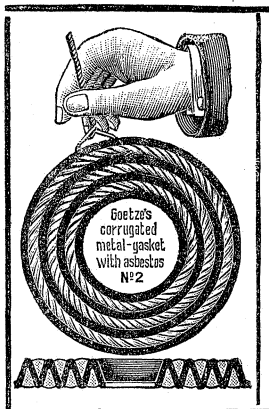
## 3980—Gaskets (Gum, Fibrous, Etc.

(See also Gaskets, Asbestos; also Gaskets, Metallic, Etc.)

Acme Rubber Mfg. Co., Trenton, N. J.
**AMERICAN-GOETZE GASKET & Packing Co.** ("Goetzerit"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Anchor Packing Co. ("Ankorite," "Tauril"), Gtn. & Allegheny avs, Phila, Pa.
Bay State Belting Co. (Rubber), Boston, Mass.
Bishop Gutta Percha Co., 422 E 25th, New York
**BOSTON BELTING CO. (Rubber),** Boston, Mass. (See adv. index & branch offices, end of book)
Brandt, Randolph (Combination Rubber & Heavy Duck, High Pressure), 70 Cortlandt, New York
Burgmann, Feodor, 5 Beekman, New York
Canfield, H. O. Co. (Rubber), Bridgeport, Conn.
Cincinnati Gasket & Packing Co., Cincinnati, O.
Combination Rubber & Belting Co. (Rubber), Bloomfield, N. J.
Continental Rubber Works (Rubber), Erie, Pa.
Crane Co. (Est. 1855), 519 Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Diamond Rubber Co. (Rubber), Akron, O.
Empire Rubber Mfg. Co. (Rubber), Trenton, N. J.
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Garlock Packing Co., Palmyra, N. Y.
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
Greenwood Mfg. & Supply Co. ("G. B. S." Fireproof), Boston, Mass.
Gutta Percha & Rubber Co. (Rubber), 126 Duane, New York
Hamilton Rubber Mfg. Co. (Rubber), Trenton, N. J.
Hartford Rubber Works Co. (Rubber), Hartford, Conn.
Hewitt Rubber Co., Buffalo, N. Y.
Hodgman Rubber Co. (Rubber), 806 B'way, New York
**HOME RUBBER CO. (Rubber), Trenton, N. J.** (See adv. index & branch offices, end of book)
Jenkins Bros., 71 John, New York
Knowlton, Geo. W. Rubber Co. (Rubber), Boston, Mass.
Manhattan Rubber Mfg. Co. (Rubber), 18 Vesey, New York
Mechanical Rubber Co. (Rubber), 73 Reade, New York
Mineralized Rubber Co. (Rubber), 18 Cliff New York
Morgan & Wright (Inc.) ("White Seal," Tubular Asbestos Covered, Tubular Rubber), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National India Rubber Co. (Rubber), Bristol, R. I.
New Jersey Car Spring & Rubber Co. (Rubber), Jersey City, N. J.
Newton Mfg. Co. ("Vellumoid"), Greendale, Mass.
New York Belting & Packing Co. (Rubber), 91 Chambers, New York
New York Insulated Wire Co. (Lighting Non-Tubular Brand), 114 Liberty, New York
**NEW YORK RUBBER CO. (Rubber),** Reade & Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co. (Rubber), 16 Warren, New York
**PENNSYLVANIA RUBBER CO. ("Century,"** Wire Insertion, Cloth Insertion, Fibrous, Tape, Tubular, Screen Diaphragm, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)

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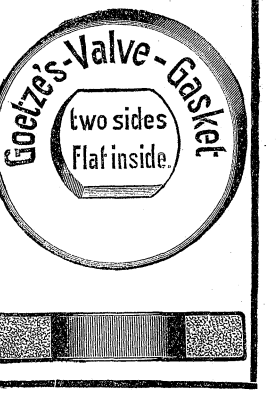
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Republic Rubber Co. (Rubber), Youngstown, O.
Revere Rubber Co. (Rubber), Boston, Mass.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sayen, Osgood ("Torpedo"), Arcade bldg., Phila., Pa.
Sayen Rubber Co. (Rubber Cloth Insertion), Hamilton, N. J.
Sherman, H. B. Mfg. Co. (Rubber), Battle Creek, Mich
**SIMMONS, JOHN CO. (All Kinds), 106** Centre, New York. (See adv. index, end of book)
Springfield Tire & Rubber Co., Springfield, O.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's Tisafine"), 48 Franklin, New York. (See adv. index, end of book)
Thermoid Rubber Co. (Rubber), Trenton, N. J.
United & Globe Rubber Mfg. Co. (Rubber), Trenton, N. J.
Victor Mfg. & Gasket Co., 3000 W 21st pl, Chicago, Ill.
Voorhees Rubber Mfg. Co. ("Nubian" Tubular, Rubber), Jersey City, N. J.
Walsh Packing Co. (Combination), 304 New, Phila., Pa.
Waterbury Rubber Mfg. Co. (Rubber), 75 Warren, New York
Western Rubber Co. (Rubber), Goshen, Ind
Whitehead Bros. Rubber Co. (Rubber), Trenton, N. J.
Wilcox, E. A. Mfg. Co. (Self Sealing), 1505 E 63d, Chicago, Ill.

## 3981—Gaskets (Hard Fibre)

(See also Fibre, Hard)

**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wilmington,** Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY CO.,** Wilmington, Del. (See adv. index & branch end of book)

## 3982— Gaskets (Lead)

Akron Metallic Gasket Co., Akron, O.
**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Phoenix Specialty Mfg. Co. (Lead Moulded), Centre & Duane, New York
U. S. Indestructible Gasket Co. (& Alloys), 50 Church, New York
Wilcox, E. A. Mfg. Co. (Manhole), 6330 Stony Island av, Chicago, Ill.
Windsor Mfg. Co., Milwaukee, Wis.

## 3983— Gaskets (Leather)

Dixie Packing Co. ("Dixie"), Atlanta, Ga.
Graton & Knight Mfg. Co., Worcester, Mass.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.

## 3984—Gaskets (Manhole & Handhole, for Boilers)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 3985— Gaskets (Metallic)

(For Rubber Gaskets, see Gaskets, Gum, Fibrous, Etc.; also Gaskets, Asbestos, Etc.; for Fibre Gaskets, see Fibre Manufacturers, Hard)

Akron Metallic Gasket Co. (Plain & Corrugated Copper, etc.), Akron, O.
Alberger Condenser Co., 95 Liberty, New York
American Asbestos Co. (Asbestos Metallic, Rubbered & Gaskets Without Wire), Norristown, Pa.
**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's" Plain & Corrugated Copper, Brass, Steel, Aluminum & Pure Nickel), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
**AMERICAN SPIRAL PIPE WORKS** (Corrugated Copper & Corrugated Steel), W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**BETTCHER MFG. CO. (Corrugated** Copper), Clark av, at C. C. C. St. L. Ry, S. W., Cleveland, O. (See adv. index, end of book)
Calmon Asbestos & Rubber Works of America (Asbestos Metallic), 102 Reade, New York
Cincinnati Gasket & Packing Co. (Copper & Asbestos or Rubber), Cincinnati, O.
Crane Co. (Est. 1855) 519 S Canal, Chicago. Ill. (See adv. index & branch offices, end of book)
Dyna-Como Co. ("National," Copper & Asbestos), 31 Hartford, Boston, Mass.
Gasket Supply Co. ("Right," Plain & Corrugated, All Metals, Asbestos, Metallic, etc.), 1729 Ludlow. Phila., Pa.
Goodwin & Kintz Co. (Copper & Asbestos), Winsted, Conn.
Guillott Metal Gasket & Supply Co., 24 S Clinton, Chicago, Ill.
Guillott, Wm. Automatic Gasket Co. (Corrugated Copper), Buffalo, N. Y.
**HUNGERFORD, U. T. BRASS & COP-** per Co. (Corrugated & Plain Copper, etc.). 497 Pearl, New York
Hussey, C. G. & Co. (Copper), Pittsburg, Pa.
**JOHNS, H. W.-MANVILLE CO.** ("Asbesto-Metallic," "Besta Monia," "J-M Kearsarge"). 100 William, New York. (See adv. index & branch offices, end of book)
McCord Mfg. Co. ("McKim" Copper-Asbestos), Detroit, Mich.
Monroe Electrical Mfg. Co. (Copper Asbestos), Monroe, Mich.
Philadelphia Metallic Gasket Mfg. Co. (Corrugated Copper, also Composition Metallic Boiler Gaskets), 3935 Germantown av, Phila, Pa.
Phoenix Specialty Mfg. Co. ("Merwarth", Corrugated, Asbestos, Metallic, etc.), Centre & Duane, New York
Power Specialty Co. (Bronze), 111 B'way, New York
**SIMMONS, JOHN CO. (All Kinds), 106** Centre, New York. (See adv. index, end of book)
**SMOOTH-ON MFG. CO. (Corrugated** Iron), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
U. S. Indestructible Gasket Co. (Plain & Corrugated Copper, Brass, Steel & Lead), 50 Church, New York
**U. S. MINERAL WOOL CO. (Corru-** gated Copper), 140 Cedar, New York. (See adv. index, end of book)
Victor Mfg. & Gasket Co., 3000 W 21st pl, Chicago, Ill.
**WATSON, H. F. CO. (Asbestos), Erie,** Pa. (See adv. index & branch offices, end of book)
Wilcox, E. A. Mfg. Co. ("Wilcox," Self-Sealing), 6330 Stony Island av, Chicago, Ill.

## Gaskets (Rubber)

(See Gaskets, Gum, Fibrous, Etc.)

## 3986—Gaskets ("Smooth-On" Corrugated Iron)

**SMOOTH-ON MFG. CO., 572 Communipaw** av, Jersey City, N. J. (See adv. index & branch offices, end of book)

## 3987—Gaskets (Steel Corrugated)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
**AMERICAN SPIRAL PIPE WORKS** (Annealed), W 14th & 48th av, Chicago, Ill., & 50 Church New York. (See adv. index, end of book)
**SMOOTH-ON MFG. CO., 572 Com-** munipaw av. Jersey City. N. J. (See adv. index & branch offices, end of book)
U. S. Indestructible Gasket Co. (Also Norway Iron), 50 Church, New York

## 3988— Gaskets (Union)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)

## 3989— Gaskets (Valve)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)

## 3990—Gaskets ("Vulcabeston")

**JOHNS-PRATT CO., THE, Hartford,** Conn.

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## 3991— Gasoline Refiners

American Oil Works (Ltd.), Titusville, Pa.
Bayerson Oil Works, Erie, Pa.
Craig Oil Co., Toledo, O.
Crew-Levick Co., Land Title bldg, Phila., Pa.
Emery Mfg. Co., Bradford, Pa.
Freedom Oil Works Co., Freedom, Pa.
Germania Refining Co., Oil City, Pa.
Great Western Oil Co., Cleveland, O.
Gulf Refining Co., Frick bldg Annex, Pittsburg, Pa.
Indian Refining Co. (Automobile, Stove, etc.), 123 William, New York
Miller's, A. D. Sons Co., N S, Pittsburg, Pa.
Mutual Refining Co., Warren, Pa.
National Refining Co., Cleveland, O.
Paragon Refining Co., Toledo, O.
Penn Refining Co., Oil City, Pa.
Petroleum Co., Cincinnati, O.
Red "C" Oil Mfg. Co., Baltimore, Md.
Standard Oil Co. of New York, 555 W 25th, New York
Sunlight Oil & Gasoline Co., 49th c Gray's av, Phila., Pa.
Texas Co. ("Texaco"), 17 Battery pl, New York
Texas City Refining Co., Texas City, Tex.
Union Petroleum Co., 135 S 2d, Phila., Pa.
Van Tilburg Oil Co., Minneapolis, Minn.
Waverly Oil Works (Stoves & Illuminating, Automobile, Gasoline Engines, etc.), Pittsburg, Pa.

## 3992— Gasometers

United States Gauge Co. (For Indicating Consumption of Gas per Hour), 67 Wall, New York

## 3992a—Gate Mfrs (Folding)

**PITT, WM. R. COMPOSITE IRON Works ("Pitt," "Bostwick," "Novelty" & "Composite" Patents), 136 W. 24th, New York. (See adv. index, end of book)**

## 3993—Gates (Automatic Drive)

Cargill Mfg. Co. ("Byerly,"), Buttles av, Columbus, O.

## 3994— Gates (Blast)

American Blower Co., Detroit, Mich.
Buffalo Forge Co. (Lever & Slide Type), Buffalo, N. Y.
Empire Blower & Pipe Co., Rochester, N. Y.
Miner & Peck Mfg. Co., New Haven, Conn.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O
**STURTEVANT, B. F. CO., Hyde Park, Mass. (See adv. index & branch offices, end of book)**

## 3995— Gates (Bridge)

Buda Co., Railway Exch. bldg, Chicago, Ill.
**ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)**
**PITT, WM. R. COMPOSITE IRON Works ("Pitt," Patent Folding), 136 W. 24th, New York. (See adv. index, end of book)**

## 3996— Gates (Bronze)

Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)**
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)**
Buffalo Wire Works Co., Buffalo, N. Y.
Burkhardt, John, 614 W 55th, New York
**CABARET, PAUL E. & CO., 342 W 14th, New York. (See adv. index, end of book)**
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT Works, Detroit, Mich. (See adv. index, end of book)**
**ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)**
**FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)**
Gaumer, John L. & Co., 22d & Wood, Philadelphia, Pa.
**GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)**
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO., Mt. Vernon, N. Y. (See adv. index, end of book)**
Herzog Iron Works, St. Paul, Minn. book)
**HOWARD & MORSE, 46 Fulton, New York. (See adv. index, end of book)**
**INGLIS, WM. WIRE & IRON WKS., 59 Woodridge, Detroit, Mich. (See adv. index, end of book)**
**JACKSON, WM. H. COMPANY, 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)**
Manhattan Brass Co., 334 E 28th, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
Mott, J. L. Iron Works, 118 5th av, New York
**PITT, WM. R. COMPOSITE IRON Works, 136 W. 24th, New York. (See adv. index, end of book)**
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York (See adv. index & branch offices, end of book)**
**SMITH, F. P. WIRE & IRON WORKS, Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)**
**SNEAD & CO. IRON WORKS, Jersey City, N. J. (See adv. index, end of book)**
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)**
Tiffany Studios, 347 Madison av, New York
**TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)**
Wells Architectural Iron Co., 219-221 E. 144th, New York
Williams, John, 556 W 27th, New York
**WINSLOW BROS. COMPANY, Main Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)**
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## Gates (Car)

(See Car Gates & Guards)

## 3997—Gates (Coal Pocket)

Stuebner, G. L. Iron Works, Long Island City,
Union Iron Works, Hoboken, N. J. N. Y.

## 3997a—Gates (Concrete Hopper)

**INSLEY MFG. CO., Indianapolis, Ind. (See adv. index & branch offices, end of book)**

## 3998—Gates (Driveway & Entrance)

**AMERICAN STEEL & WIRE CO. (Wire, Steel Frame), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**
**ANCHOR POST IRON WORKS, 19 Cortlandt, New York. (See adv. index, end of book)**
**ARCHITECTURAL IRON & WIRE Works, Wheeling, W. Va. (See adv. index, end of book)**
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
**BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)**
**CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)**
**BROWN BROS. MFG. CO. (Bronze & Iron), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)**
Cincinnati Iron Fence Co., Cincinnati, O.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Detroit Arch'l. Iron Works Co., Detroit, Mich.
Dow Wire & Iron Works, Louisville, Ky.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
**ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)**
**FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)**
Halsted, Jos. Co., 1233 W Randolph, Chicago, Ill.
**HENRY-BONNARD BRONZE CO., Mt. Vernon, N. Y. (See adv. index, end of** Herzog Iron Works, St. Paul, Minn. book)
**HOWARD & MORSE, 46 Fulton, New York. (See adv. index, end of book)**
**INGLIS, WM. WIRE & IRON WKS., 59 Woodridge, Detroit, Mich. (See adv. index, end of book)**
**JACKSON, WM. H. COMPANY, 2-4-6 W 27th, New York. (See adv. index & branch offices, end of book)**
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
**MUNCIE ORNAMENTAL IRON WKS., Muncie, Ind. (See adv. index, end of book)**
Peters, David & Son, Gate & Fence Co. (Automatic), Homer, Ill.
**PITT, WM. R. COMPOSITE IRON Works, 136-138 W. 24th, New York. (See adv. index, end of book)**
Prairie States Mfg. Co. ("Prairie," Automatic Adjustable, etc.), Cedar Rapids, Ia.
**REMPPIS, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)**
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)**
**SMITH, F. P. WIRE & IRON WKS., Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)**
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)**
**TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)**
Tiffany Studios, 347 Madison av, New York
**TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)**
**UNION FOUNDRY WORKS, 38 S Dearborn, Chicago, Ill. (See adv. index, end of book)**
**VULCAN CO., Detroit, Mich. (See adv. index, end of book)**
**WINSLOW BROS. COMPANY. Main office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)**
**WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)**

## 3999—Gates (Farm & Railroad)

Adams Steel & Wire Works, Joliet, Ill.
**AMERICAN STEEL & WIRE CO. ("Yankee," Steel), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)**
**BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)**
Cargill Mfg. Co., Columbus, O.
Dwiggins Wire Fence Co., Anderson, Ind.
**ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)**
Fetzer, Wm. Co. (Farm, Park or Cemetery, Automatic Self-Opening), Springfield, Ill.
Hackney Mfg. Co. (Farm & Walk), St. Paul, Minn.
Indiana Machine Co. (Self-Supporting Farm), Columbus, Ind.
**INGLIS, WM. WIRE & IRON WKS., 59 Woodridge, Detroit, Mich. (See adv. index, end of book)**
Iowa Gate Co., Cedar Falls, Iowa
**Kokomo Fence Machine Co. (Steel), Kokomo, Ind.**
Kokomo Steel & Wire Co. ("Diamond"), Anderson, Ind.
Prairie States Mfg. Co., Cedar Rapids, Ia.
Rowe Mfg. Co., Galesburg, Ill.
Spring Steel Fence & Wire Co., Anderson, Ind.
Western Steel & Iron Works (Steel), De Pere, Wis.

## 3999a— Gates (Ferry Boat)

**PITT, WM. R. COMPOSITE IRON Works ("Pitt," Patent Folding), 136-138 W. 24th, New York. (See adv. index, end of book)**

## 4000— Gates (Folding)

Barnum, E. T., Wire & Iron Works, 82 Washington av, Detroit, Mich.
**Bataille, Achille & Co., 587 Hudson, New York**
**Belmont Iron Works (Steel), 22d & Wash'n av., Philadelphia, Pa.**
**BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)**
**BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)**

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Buffalo Wire Works Co., Buffalo, N. Y.
California Artistic Metal & Wire Co., San Francisco, Cal.
Chapman, Wm. O., 30 Church, New York
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Columbia Iron & Wire Works Co., Canton, O.
Detroit Arch'l Iron Works Co., Detroit, Mich.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodridge, Detroit, Mich. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N J. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works ("Pitt-Bostwick"), 136 W. 24th, New York. (See adv. index, end of book)
**REMPPIS, WM. F. CO., Reading, Pa.,** & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York.** (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**STANDARD CO. (Collapsible), Railway Exchange bldg., Chicago, Ill.** (See adv. index, end of book)
**TYLER, W. S. CO. (Collapsible),** Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)
Van Dorn Iron Works Co., Cleveland, O.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 4001— Gates (Lock)

Independent Bridge Co., Pittsburg, Pa.

## 4002— Gates (Molasses)

Cheney, S. & Son, Manlius, N. Y.
Enterprise Mfg. Co., 3d & Dauphin, Philadelphia, Pa.
Scoville, E. U. (Est. of) ("Perfection"), Manlius, N. Y.
Sommer Faucet Co. ("Perfection"), Newark, N. J.
Stearns, E. C. & Co. ("Scovilles'" Pattern), Syracuse, N. Y.
Taylor & Boggis Foundry Co. ("Stebbins"), Cleveland, O.
Weller Hardware & Foundry Co. ("Stebbins"). Horseheads, N. Y.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)

## 4003— Gates (Ore Bin)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chalmers & Williams, Chicago Heights, Ill.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Hendy, Joshua Iron Works, San Francisco, Cal.
**MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn.** (See adv. index & branch offices, end of book)
**POWER & MINING MACHINERY CO.** ("Loomis-Pettibone" Gas Apparatus for Power Plants, etc.), B'way & Cedar, New York. (See adv. index & branch offices,
Stephens-Adamson Mfg. Co.( "S-A"), Aurora, Ill.
Union Iron Works Co., San Francisco, Cal.
Wellman-Seaver-Morgan Co. ("Seaver"), Cleveland, O.

## 4004—Gates (Ornamental Iron)

(See also Iron, Architectural & Ornamental)

Ajax Iron & Wire Co., 75 York, Brooklyn, N. Y.
**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end of book)
Bayley, Wm. Co., Springfield, O.
Belmont Iron Works, 2215 Wash'n av, Phila., Pa.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buffalo Wire Works Co., Buffalo, N. Y.
Burkhardt, John, 614 W 55th, New York
**CARPENTER, F. E. CO., 253 B'way, New** York. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Chesapeake Iron Works, Baltimore, Md.
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Columbia Iron & Wire Works Co., Canton, O.
Creswell, Samuel J. Iron Works, 23d & Cherry, Phila., Pa.
Crown Iron Works Co., Minneapolis, Minn.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Gaumer John L. Co., 22d & Wood, Phila., Pa.
Glen Mfg. Co., Ellwood City, Pa.
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
Grote Mfg. Co. (Park, Cemetery, etc.), Evansville, Ind.
Halsted, Joseph Co., 1233 W Randolph, Chicago, Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
Hennecke, C. Co., Milwaukee, Wis.
Herzog Iron Works, St. Paul, Minn.
**HENRY-BONNARD BRONZE CO., Mt.** Vernon, N. Y. (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
McKinney, Jas. & Son, Albany, N. Y.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Midland Metal Co. (Inc.), 21st & Jefferson, Phila., Pa.
Morss & Whyte, 75 Cornhill, Boston, Mass.
Mott, J. L. Iron Works, 118 5th av, New York
Mugler's Iron Works, 841 E 136th, New York
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works, 136 W 24th, New York. (See adv. index, end of book)
Prince Iron Works, 553 W 33d, New York
**REMPPIS, WM. F. CO., Reading, Pa.,** & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth (Boro of Queens), New York City
Scaar & Sullivan Co., 1042 W 11th, Chicago, Ill.
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York.** (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Snead Architectural Iron Wks., Louisville, Ky.
**SNEAD & CO. IRON WORKS, Jersey** City, N. J. (See adv. index, end of book)
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**STANDARD CO., Railway Exchange bldg, Chicago, Ill.** (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
**TYLER, W. S. CO., Cleveland, O.** & 11 B'way, New York. (See adv. index & branch offices, end of book)
**UNION FOUNDRY WORKS, 38 S** Dearborn, Chicago, Ill. (See adv. index, end of book)
Union Iron & Foundry Co., St. Louis, Mo.
Van Dorn Iron Works Co., Cleveland, O.
Vilsack Martin Co., Pittsburg, Pa.
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)
Wells Architectural Iron Co., 219–221 E. 144th, New York
Williams, John, 556 W 27th, New York
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 4004a—Gates (Ornamental Wire)

**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)

## 4005—Gates (Railway Crossing)

(See also Signals, Railway Crossing)

Buda Co. ("Bouge" & "Mills" System Interlocked, Pneumatic, etc.), Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.
General Railway Signal Co., Rochester, N. Y.
Kalamazoo Railway Supply Co. ("Wilson"), Kalamazoo, Mich.
Pneumatic Gate Co. ("Elliot" Pneumatic), 1921 S Fairfield av, Chicago, Ill.

## 4005a— Gates (Shear)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)

## 4006— Gates (Sluice)

**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index, end of book)
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Coffin Valve Co., Neponset, Boston, Mass.
Coldwell-Wilcox Co. (Also Pivot), Newburgh, N. Y.
Dimmick Pipe Co., Birmingham, Ala.
Eddy Valve Co., Waterford, N. Y.
Fox, Jno. & Co., 253 B'way, New York
Glamorgan Pipe & Foundry Co., Lynchburg, Va.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Ludlow Valve Mfg. Co., Troy, N. Y.
Pelton Water Wheel Co., San Francisco, Cal., & 90 West, New York
Vulcan Iron Works, 327 No Irving av, Chicago, Ill.
Wood, R. D. & Co. (Intake & Screens), 400 Chestnut, Philadelphia, Pa.

## 4007—Gates (Sluice, Pneumatic)

**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

## 4008— Gates (Steel)

**AMERICAN STEEL & WIRE CO.** ("Elwood," Walk & Single & Double Drive), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## Gates (Steel Picket)

(See Fences, Iron & Steel Picket)

## 4009—Gates (Storage Bin)

**INSLEY MFG. CO. (Concrete),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
**RANSOME CONCRETE MACHINERY** Co. (For Sand, Stone & Concrete), Dunellen, N. J. (See adv. index & branch offices, end of book)

## 4009a—Gates & Guards (Bronze Folding)

**PITT, WM. R. COMPOSITE IRON** Works ("Pitt-Bostwick" Patents), 136 W 24th, New York. (See adv. index, end of book)

## 4010—Gauge Glass Preservers

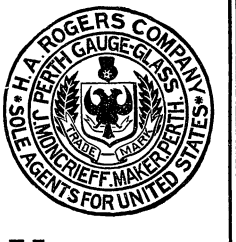
Morse, R. F. ("Gilbert's" Self Packing), Providence, R. I.

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## 4011—Gauge Glass Protectors

German-American Glass Co., Water & Dickinson, Phila., Pa.
Standard Brass & Iron Works ("Leonhardt"), Milwaukee, Wis.

## 4012—Gauge Glass Washers

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
Canfield, H. O. Co., Bridgeport, Conn.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Cleveland Rubber Works, Cleveland, O.
Continental Rubber Works ("Continental," "Tribune," "Liberty"), Erie, Pa.
Diamond Rubber Co., Akron, O.
Electric Hose & Rubber Co., Wilmington, Del.
Empire Rubber Mfg. Co., Trenton, N. J.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)
Manhattan Rubber Mfg. Co., Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York
Morgan & Wright (Inc.), Detroit, Mich.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila.,
Revere Rubber Co., Boston, Mass. Pa.
**ROGERS, H. A. CO. ("Perfected"), 19 John** New York. (See adv. index, end of book)
Voorhees Rubber Mfg. Co., 18 Bostwick av, Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4013— Gauge Glasses

Allen, Joseph ("Indicator"), Collingswood, N.J.
Advance Packing & Supply Co. ("F'irma"), 123 Franklin, Chicago, Ill.
American Steam Gauge & Valve Mfg. Co., Boston, Mass.
Ashcroft Mfg. Co. ("Tomey"), 85 Liberty, N. Y.
Bache, Semon & Co. ("Maltese Cross"), West & Hubert, New York
Belfeld , H. & Co., 435 N Broad, Phila., Pa.
Crane Co. (Est. of), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Chesterton, A. W. & Co. ("McGregor," "Sonderglass"), 64 India, Boston, Mass.
German-American Glass Co. ("Jenia"), Water & Dickinson, Phila., Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Jerguson Mfg. Co., 221 Columbus av, Boston, Mass.
Keating, Edw. F. Co. ("Montroe"), 446 Water, New York
Lonergan, J. E. & Co. ("Thistle"), 211 Race, Philadelphia, Pa.
Lovell, F. H. Co. ("Bishop's"), Arlington, N. J.
**LUNKENHEIMER CO., General Offices & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich.** (See adv. index, end of book)
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
Powell, Wm. Co., Cincinnati, O.
**ROGERS, H. A. CO. (Moncrieff "Perth,"** Moncrieff "Unific," Moncrieff "Red Line," Moncrieff "Scotch"), 19 John, New York. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Durax," "Robax Compound" of Jena Glass), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Von Kokeritz, R. G. & Co. ("Durable"), 114 Liberty, New York
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 4014—Gauge Glasses (Scotch)

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Hall Mfg. Co., John & Cliff, New York
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
**ROGERS, H. A. CO. ("Moncrieff"), 19 John,** New York. (See adv. index, end of book)

## 4015—Gauge Testing Apparatus

**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## Gauges (Air Brake)

(See Gauges, Steam)

## 4016— Gauges (Air)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4017— Gauges (Alarm)

Ashcroft Mfg. Co., The ("Edson"), 85 Liberty, York York
Ashton Valve Co. ("Ideal"), 271 Franklin, Boston, Mass.
**BRISTOL CO. ("Bristol's" Recording** & Alarm), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Du Vivier, Ernest H., 30 Church, New York
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
U. S. Gauge Co. (High & Low Pressure Electric), 67 Wall, New York

If you are in doubt as to the original manufacturer of any machine or tool on which the patents have expired, that are now being exploited by many makers, ask Hendricks

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## Gauges (Altitude)
(See Gauges, Steam)

## Gauges (Ammonia)
(See Gauges, Steam)

## 4018—Gauges (Automobile)
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4019— Gauges (Axle)
Badger State Machine Co. ("Wills" Automatic), Janesville, Wis.

## Gauges (Bar Iron Limit)
(See Gauges, Limit)

## 4020— Gauges (Barrel)
Hydraulic Press Mfg. Co., Mount Gilead, O.

## Gauges (Battery)
(See Ammeters & Voltmeters)

## 4021— Gauges (Bit)
Bonney Vise & Tool Works (Inc.) ("Garrett's" Augur Bit), Allentown, Pa.
Cincinnati Tool Co. ("Hargrave"), Cincinnati, O.
Millers Falls Co., 28 Warren, New York
Stanley Rule & Level Co., New Britain, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.

## Gauges (Blast)
(See Gauges, Steam)

## 4022—Gauges (Blood Pressure)
Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.

## Gauges (Boiler Plate)
(See Gauges, Rolling Mill)

## 4022a—Gauges (Bolt & Pipe)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## Gauges (Bourdon Pressure)
(See Gauges, Steam)

## 4023— Gauges (Butt)
Godell-Pratt Co. ("Goodell-Pratt"), Greenfield, Mass.
Mayhew, H. H. Co. (Butt Gauge & Try Square Combined), Shelbourne Falls, Mass.
Stanley Rule & Level Co. (Metallic), New Britain, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.

## 4024— Gauges (Button)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 4025—Gauges (Cabinet Makers')
Redin, Ekstrom & Co., Rockford, Ill.

## 4026— Gauges (Caliper)
Billings & Spencer Co. (Pocket, etc.,) Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
**MORSE TWIST DRILL & MACHINE** Co. (Adjustable), New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Rogers, Jno. M. Works, Gloucester City, N. J.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**SLOCOMB, J. T. CO., 29 Oxford,** Providence, R. I. (See adv. index, end of book)
Smith, E. G. Co. ("Columbia"), Columbia, Pa.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 4027—Gauges (Car Wheel, Circumference)
Pratt & Whitney Co., Hartford, Conn.

## 4028—Gauges (Carpenters')
Caldwell Mfg. Co. ("Handy" Rule Gauge), S Jones, Rochester, N. Y.
Chapin-Stephens Co., Pine Meadows, Conn.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Gage Tool Co., Vineland, N. J.
Goodell-Pratt Co. (Roller, Single, Double & Triple Beam), Greenfied, Mass.
Mack & Co., Rochester, N. Y.
Sandusky Tool Co., Sandusky, O.
Stanley Rule & Level Co., New Britain, Conn.
Winsted Edge Tool Works, Winsted, Conn.

## 4029— Gauges (Center)
Athol Machine Co., Athol, Mass.
Massachusetts Tool Co. ("Whitworth"), Greenfield, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 4030—Gauges (Chamferer)
Bullock Mfg. Associates, Springfield, Mass.
Goodell-Pratt Co., Greenfield, Mass.
Swan, James Co. ("Swan's" Drawing Knife), Seymour, Conn.

## 4030a— Gauges Chemical)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4031—Gauges (Clapboard)
Stearns, E. C. & Co., Syracuse, N. Y.

## 4031a—Gauges (Combination, Recording Pressure & Vacuum)
**BRISTOL CO. ("Bristol's"), Waterbury,** Conn. (See adv. index & branch offices, end of book)

## 4032—Gauges (Combination, Water Pressure)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

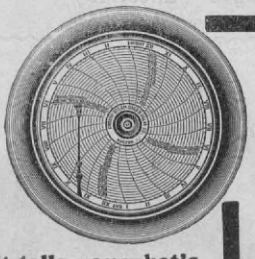
## 4033—Gauges (Compound, Pressure & Vacuum)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4034—Gauges (Compression)
Ashton Valve Co., 271 Franklin, Boston, Mass.
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
Du Vivier, Ernest H., 30 Church, New York

## 4035—Gauges (Concave & Convex)
Diamond Power Specialty Co. ("Diamond"), Detroit, Mich.
Smith, Ernest G. Co. ("Columbia"), Columbia, Pa.

## 4036— Gauges (Cylindrical)
Brown & Sharpe Mfg. Co., Providence, R. I.
Rogers, Jno. M. Works, Gloucester City, N. J.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4037— Gauges (Depth)
Billings & Spencer Co. ("Billings'" Quick Adjustment), Hartford, Conn.
Massachusetts Tool Co., Greenfield, Mass.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Swan, James Co. ("Swan's"), Seymour, Conn.

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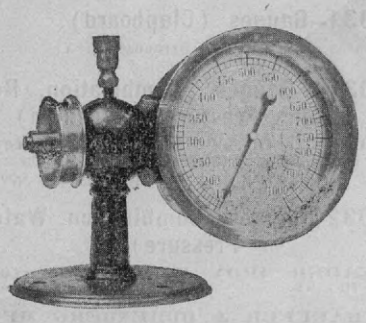
# NATIONAL GAUGE CO., 168-172 8TH STREET, BROOKLYN, N. Y.

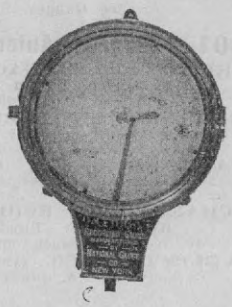
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## 4038– Gauges (Draft)

Ellison, Lewis M. ("Ellison," Differential), 6238 Princeton av, Chicago, Ill.

**INDUSTRIAL INSTRUMENT CO.**, Foxboro, Mass. (See adv. index & branch offices, end of book)

**NATIONAL GAUGE CO., 168 8th**, Brooklyn, N. Y. (See adv. index, end of book)

Sargent Steam Meter Co. ("Sargent," for Pressure or Vacuum), 152 Lake Chicago, Ill.

**SCHAEFFER & BUDENBERG MFG. Co.** ("Prof. Carpenter's" Differential, U Tube, Diaphragm New Style), 963 Kent av, New York (See adv. index & branch offices, end of book)

Star Brass Mfg. Co., Boston, Mass.

Tagliabue, Chas. J. Mfg. Co. ("O. & L." & "Eames"; also Pressure), 396 B'way, New York

Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.

Uehling Instrument Co., Passaic, N. J.

## 4039–Gauges (Draft, Recording)

**BRISTOL CO. ("Bristol's"), Waterbury**, Conn. (See adv. index & branch offices, end of book)

**SCHAEFFER & BUDENBERG MFG. Co.**, 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

Uehling Instrument Co., Passaic, N. J.

## 4040– Gauges (Drill)

**CLEVELAND TWIST DRILL CO.**, Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

**DETROIT TWIST DRILL CO.**, Detroit, Mich. (See adv. index, end of book)


**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER**


## 4041–Gauges (Dynamo & Motor Oil)

American Lubricator Co. ("American"), Detroit, Mich.

**LUNKENHEIMER CO. ("Triplex")**, Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Michigan Lubricator Co. ("Michigan"), Detroit, Mich.

## 4042–Gauges (Electrically Operated)

**CUTLER-HAMMER MFG. CO.**, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 4043–Gauges (Expansion Tank)

**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)

Ohio Injector Co., Wadsworth, O.

## 4044–Gauges (Farm Engine)

**SCHAEFFER & BUDENBERG MFG. Co.**, 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## Gauges (Gas)

(See Gauges, Gas Retort)

## 4045–Gauges (Gas Recording Pressure)

American Meter Co. ("Kings"), 561 W 47th, New York

Ashcroft Mfg. Co. ("Edson"), 85 Liberty, New York

**BRISTOL CO. ("Bristol's"), Waterbury**, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)

**CROSBY STEAM GAGE & VALVE Co.**, 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.

Du Vivier, Ernest H., 30 Church, New York

**INDUSTRIAL INSTRUMENT CO.**, Foxboro, Mass. (See adv. index & branch offices, end of book)

**NATIONAL GAUGE CO., 168 8th**, B'klyn, N. Y. (See adv. index, end of book)

Phoenix Meter Co., Camden, N. J.

**PITTSBURGH GAGE & SUPPLY CO.**, 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

**PITTSBURG METER CO. (Pressure &** Volume), East Pittsburg, Pa.

**ROCKWELL FURNACE CO., 26 Cortlandt**, New York. (See adv. index, end of book)

Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.

Uehling Instrument Co., Passaic, N. J.

## 4046–Gauges (Gas Recording Pressure Portable)

**INDUSTRIAL INSTRUMENT CO.**, Foxboro, Mass. (See adv. index & branch offices, end of book)

## 4047–Gauges (Gas Retort)

**MORSE THERMO GAGE CO., 208 E. State**, Ithaca, N. Y. (See adv. index, end of book)

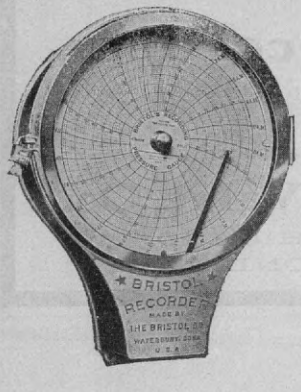
**SCHAEFFER & BUDENBERG MFG. Co.**, 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

**SHORE INSTRUMENT & MFG. CO.**, 557 W 22d, New York. (See adv. index & branch offices, end of book)

Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.

## Gauges (Gasoline)

(See Indicators, Fuel Level)

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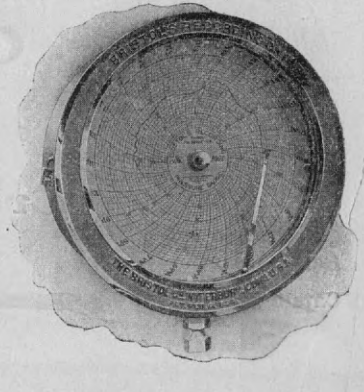
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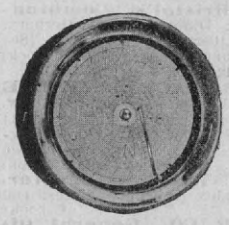
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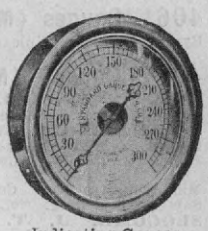



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## 4048— Gauges (Gear)

**BOSTON GEAR WORKS (Steel Gear** Gauges for Testing Depth of Gear Teeth, etc.), Norfolk Downs, Mass. (See adv. index, end of book)

## 4049—Gauges (Hydraulic Recording)

(See also Gauges, Water)

**BRISTOL CO. ("Bristol's"), Waterbury, Conn. (See adv. index & branch offices, end of book)**

**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)

**NATIONAL GAUGE CO. ("National"), 168 8th, B'klyn, N. Y. (See adv. index end of book)**

**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**

## 4050—Gauges (Illuminated Dial)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4050a—Gauges (Indicating & Recording Combined)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4051— Gauges (Inspectors')

Ashcroft Mfg Co., 85 Liberty, New York

**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)

**NATIONAL GAUGE CO., 168 8th,** B'klyn, N. Y. (See adv. index, end of book)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

**STARRETT, L. S. CO. (For Steel Plates,** etc.), Athol, Mass. (See adv. index & branch offices, end of book)

**WELLS BROS. CO., Greenfield, Mass. (See** adv. index & branch offices, end of book)

## 4052— Gauges (Jointer)

Millers Falls Co. ("Perfection"), 28 Warren, New York; Works: Millers Falls, Mass.

## 4053— Gauges (Leather)

Snell & Atherton, Brockton, Mass.

## 4054— Gauges (Limit)

Brown & Sharpe Mfg. Co., Providence, R. I.

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

Pratt & Whitney Co., Hartford, Conn.

Rogers, Jno. M. Works, Gloucester City, N. J.

Slocomb, J. T. Co., Providence, R. I.

**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## Gauges (Locomotive)

(See Gauges, Steam)

## 4055—Gauges (Loss of Head Recording)

**BRISTOL CO. ("Bristol's"), Waterbury, Conn.** (See adv. index & branch offices, end of book)

Simplex Valve & Meter Co., 112 N Broad, Phila., Pa.

## 4056— Gauges (Lumber)

Cleveland Rule Co., Cleveland, O.

Filer & Stowell Co., Milwaukee, Wis.

Lufkin Rule Co., Saginaw, Mich.

## 4057— Gauges (Machinists')

Blodgett Mfg. Co., Rochester, N. Y.

## 4058— Gauges (Marking)

**Chapin-Stephens Co., Pine Meadow, Conn.**

**Disston, Henry & Sons (Inc.), Tacony, Phila.,** Pa.

Leavitt Machine Co. ("Barrett" Roller), Orange, Mass.

Mack & Co., Rochester, N. Y.

Nicholls Mfg. Co. ("Nicholls" Sawtooth, Wheel Roller Marking & Mortise Gauge), Ottumwa, Ia.

Sandusky Tool Co., Sandusky, O.

Stanley Rule & Level Co., New Britain, Conn.

## 4059— Gauges (Measuring)

Gronquist Drill Chuck Co. ("Johansson"), Jersey City, N. J.

**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4060— Gauges (Mercury)

**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)

**NATIONAL GAUGE CO. (Also Mer-**cury Vacuum Gauges), 168 8th. Brooklyn, N. Y. (See adv. index, end of book)

**PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See** adv. index, end of book)

**ROCKWELL FURNACE CO., 26 Cort-**landt, New York. (See adv. index, end of book)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. **(See adv. index & branch offices, end of book)**

Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York


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## 4061–Gauges (Mercury Blast)

Byran, V. Co. ("Vulcan"), Detroit, Mich.

## 4062–Gauges (Micrometer)

**AMES, B. C. & CO. (Dial), Waltham,** Mass. (See adv. index, end of book)
Athol Machine Co., Athol, Mass.
**Brown & Sharpe Mfg. Co., Providence, R. I.**
**Haines Gauge Co. (Automatic),** Provident bldg Philadelphia, Pa.
Massachusetts Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**SLOCOMB, J. T. CO., 29 Oxford,** Providence, R. I. (See adv. index, end of book)
**Smith, E. G. Co. ("Columbia" Screw, etc.), Columbia, Pa.**
**STARRETT, L. S., CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**WELLS BROS CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4062a–Gauges (Mine Fan)

**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn. (See adv. index & branch offices, end of book)

## 4063–Gauges (Mine Water)

Everhart Brass Works (For Showing Pressure of Air in Mines), Scranton, Pa.

## 4064– Gauges (Paper)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 4064a–Gauges (Petrol Depth)

**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn. (See adv. index & branch offices, end of book)

## 4065–Gauges (Plug & Ring)

Brown & Sharpe Mfg. Co., Providence, R. I.
Clough, R. M., Tolland, Conn.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
Nash Engineering Co. (Micrometer Plug), 248 Gates av, Brooklyn, N. Y.
Pratt & Whitney Co., Hartford, Conn.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4065a–Gauges (Plumbers')

**BERNZ, OTTO (Testing), 21 Ashland** av, Newark, N. J. (See adv. index, end of book)

## 4066–Gauges (Pyrometer, Steam Pressure & Temperature)

**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 4067– Gauges (Radius)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 4068– Gauges (Rain)

International Instrument Co. ("Ferguson"), 23 Church, Cambridge, Mass.
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.

## 4069– Gauges (Raker)

Morin, S. J. ("Morin's" For Cross-Cut Saws), Seattle, Wash.

## 4070–Gauges (Recording Pressure)

**American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.**
Ashcroft Mfg. Co. ("Edson"), 85 Liberty, New York
Ashton Valve Co., 271 Franklin, Boston, Mass.
**BRISTOL CO. ("Bristol's" Combination,** Hydraulic & Differential), Waterbury, Conn., & 144 Liberty, New York. (See adv. index & branch offices, end of book)
Cleveland Steam Gauge Co., Cleveland, O.
**CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston. Mass.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices. end of book)
**LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Quimby Engineering Co. ("U. S. Standard" Mercury), 911 Ridge av, Phila. Pa.
**SCHAEFFER & BUDENBERG MFG. Co.** (Gas Pressure, Hydraulic Pressure, Ammonia Pressure, Steam Pressure & Water Pressure Recording Gauges), **963 Kent av, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Uehling Instrument Co., Passaic, N. J.
United States Gauge Co., 67 Wall, New York

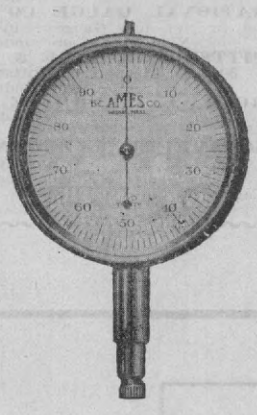
## 4070a–Gauges (Recording Pressure Portable)

**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)

## 4071–Gauges (Recording Tide)

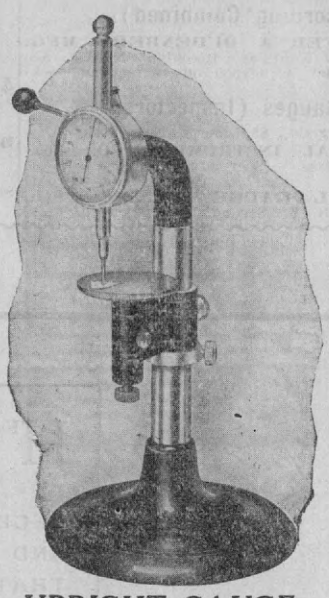
**BRISTOL CO., Waterbury, Conn., & 114 Liberty, New York.** (See adv. index & branch offices, end of book)


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## 4072—Gauges (Recording Vacuum)

**BRISTOL CO. ("Bristol's"), Waterbury,** Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., Cincinnati,** O. (See adv. index & branch offices, end of book)
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Uehling Instrument Co., Passaic, N. J.

## 4073—Gauges (Revolution Recording)

**BRISTOL CO. ("Bristol's"), Waterbury,** Conn. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Uehling Instrument Co., Passaic, N. J.

## 4074—Gauges (Rolling Mill)

Brown & Sharpe Mfg. Co., Providence, R. I.

## 4075— Gauges (Rule)

Miller, A. W. Mfg. Co. ("Howell"), Nevada bldg, Cincinnati, O.

## 4076— Gauges (Saw)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Beach Mfg. Co., Montrose, Pa.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Hoe, R. & Co., 504 Grand, New York
Kilborn & Bishop Co. ("The Champion Forged"), New Haven, Conn.
Miner, J. H. Saw Works, Lumberton, Miss.
Prouty, C. & Co., Eldred, Pa.
Robinson, J. J., Bloomsburg, Pa.
Seymour & Whitlock, 43 Lawrence, Newark, N. J.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)
Smith, H. B. Machine Co., Smithville, N. J.

## 4077— Gauges (Scratch)

Billings & Spencer Co. ("Billings" With & Without Screw Attachment), Hartford, Conn.
Goodell-Pratt Co., Greenfield, Mass.
Massachuseats Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Welch, T. F. & Co., 65 Sudbury, Boston, Mass.

## 4078—Gauges (Screw Pitch)

Athol Machine Co. ("Boss," etc.), Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Massachusetts Tool Co., Greenfield, Mass.
Pratt & Whitney Co., Hartford, Conn.
Sawyer Tool Co., Fitchburg, Mass.
Smith, E. G. Co., Columbia, Pa.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 4079—Gauges (Sheet Metal)

Brown & Sharpe Mfg. Co., Providence, R. I.
Pratt & Whitney Co. (Decimal), Hartford, Conn.

## 4080—Gauges (Sheet Rubber Measuring)

Hoggson & Pettis Mfg. Co., New Haven, Conn.

## 4081— Gauges (Shingle)

Wagner Mfg. Co., Cedar Falls, Ia.

## 4082— Gauges (Snap)

Billings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Pratt & Whitney Co., Hartford, Conn.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4082a—Gauges (Speed Recording, "Bristol's")

**BRISTOL CO., Waterbury, Conn.** (See adv. index & branch offices, end of book)

## 4083— Gauges (Stair)

**STARRETT, L. S. CO. (For Carpenters, etc.),** Athol, Mass. (See adv. index & branch offices, end of book)

## 4084— Gauges (Steam)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashcroft Mfg. Co., 85 Liberty, New York
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bogardus, H. A. & Co. ("Trident" Vacuum Pressure), 159 W Huron, Chicago, Ill.
**BRISTOL CO. ("Bristol's," Recording), Waterbury,** Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Cleveland Steam Gauge Co., Cleveland, O.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati,** O. (See adv. index & branch offices, end of book)
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**NATIONAL GAUGE CO. ("National"),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Steam Specialty Co. ("National"), 12 S Clinton, Chicago, Ill.
Quimby Engineering Co. ("U. S. Standard"), 915 Ridge av, Phila., Pa.
Reliance Steam Gauge Co., Cleveland, O.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.
Uehling Instrument Co., Passaic, N. J.
U. S. Gauge Co., 67 Wall, New York
Utica Steam Gauge Co., 90 West, New York
Weiskopf, A. (Ammonia), 16 S Clinton, Chicago, Ill.
Williams, D. T. Valve Co., Cincinnati, O.
Zaubitz, August, 95 Cliff, New York.

## 4085—Gauges (Sulphite Digester)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4086— Gauges (Surface)

Billings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Hoggson & Pettis Mfg. Co. ("Carr's"), New Haven, Conn.
Massachusetts Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## Gauges (Syphon)

(See Gauges, Steam)

## 4086a— Gauges (Tank)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4087—Gauges (Tank Acid Metal)

Eastwood Wire Mfg. Co., Belleville, N. J.

## 4088—Gauges (Tank Gauge, Pneumatic)

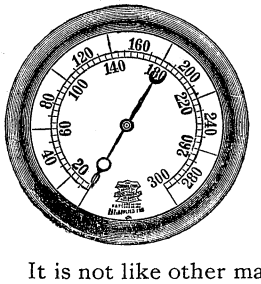
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4089— Gauges (Telescoping)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 4090—Gauges (Temperature Regulating)

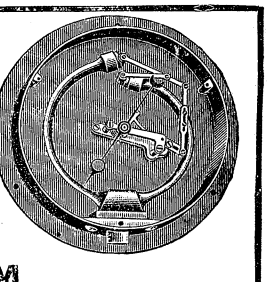
**MORSE THERMO GAGE CO., 208 E.** State, Ithaca, New York (See adv. index, end of book)
**SHORE INSTRUMENT & MFG. CO.,** 557 W 22d, New York. (See adv. index & branch offices, end of book)

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## Gauges (Test)
(See Gauges, Steam)

### 4091—Gauges (Test Pocket)
Ashton Valve Co., 271 Franklin, Boston, Mass.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

### 4092—Gauges (Thickness)
Brown & Sharpe Mfg. Co., Providence, R. I.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

### 4093— Gauges (Thread)
Brown & Sharpe Mfg. Co. ("Acme" Steel Thread), Providence, R. I.
Pratt & Whitney Co., Hartford, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

### 4094— Gauges (Tie Plate)
Buda Co. ("Ware"), Railway Exchange bldg, Chicago, Ill.

### 4095— Gauges (Track)
Buda Co. ("Huntington," "Cafrey-Huntington" & "McManus" Combined Track Gauge & Lever), Railway Exchange bldg, Chicacago, Ill.
**FAIRBANKS, MORSE & CO.** (Circular, Radial, etc.), 481 Wabash av, Chicago, Ill., & 30 church, New York. (See adv. index & branch offices, end of book)
Fox Bros & Co., 126 Lafayette, New York
Handlan-Buck Mfg. Co., 212 N 3d, St. Louis, Mo.
Iron City Tool Co., Pittsburg, Pa.
Irving Mfg. & Tool Co., 169 Chambers, New York
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Lovejoy Tool Works ("Huntington," also Standard Insulated), 335 W Ohio, Chicago, Ill.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Sheffield Car Co. ("The McHenry"), Three Rivers, Mich.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.

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**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

### 4096—Gauges (Twist Drill)
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Millers Falls Co., 28 Warren, New York
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

### 4097—Gauges (Unison Telemetric Pressure)
Connelly Iron Sponge & Governor Co., 127 Duane, New York

### 4098—Gauges (Universal Screw Cutting)
Cincinnati Tool Co., Cincinnati, O.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Pratt & Whitney Co., Hartford, Conn.
Smith, E. G., Columbia, Pa.
Smith, Otis A. (Countersunk and Depth), Rockfall, Conn.

### 4099— Gauges (Urn)
Haydenville Co., Haydenville, Mass.
**McRAE & ROBERTS CO. (Coffee,** etc.), 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

## Gauges (Vacuum)
(See Gauges, Steam)

### 4099a—Gauges (Vacuum Draft, "Bristol's" Recording)
**BRISTOL CO., Waterbury, Conn.** (See adv. index & branch offices, end of book)

### 4100— Gauges (Water)
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashcroft Mfg. Co. (Pressure Self-Closing "Keyser" Automatic), 85 Liberty, New York
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
**BRISTOL CO. ("Bristol's" Water** Level), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Buckeye Iron & Brass Works, Dayton, O.
Canton Brass & Machine Co., Canton, O.
Capitol Brass Works, Detroit, Mich.
Cleveland Steam Gauge Co., Cleveland, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Davis, John & Son (Ltd.), Baltimore, Md.
Detroit Brass Works, Detroit, Mich.
Detroit Lubricator Co. ("Detroit" Expansion Tank), Detroit, Mich.
**Farnan Brass Works (Safety), Cleveland, O.**
Groff Drill & Machine Tool Co. ("Groff Reflex"), Camden, N. J.
**Haydenville Co., Haydenville, Mass.**
**Huyette, Paul B. Co. (The "P. B. H." Quick Closing), Betz bldg, Philadelphia, Pa.**
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Jerguson Mfg. Co. ("Klingers," "Reflex," "Wiltbonco"), Boston, Mass.
Kelly & Jones Co., Pittsburg, Pa.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Lonergan, J. E. & Co. (Automatic Safety), 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Monitor,"** Automatic & Plain), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McGowan, John H. Co., Cincinnati, O.
McMeans & Tripp ("T. & W.," for Vertical Boilers, etc.), Indianapolis, Ind.
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv index, end of book)
**MARION MACHINE, FOUNDRY &** Supply Co. ("Alexander," for Boilers), Marion, Ind. (See adv. index, end of of book)
**Michigan Lubricator Co. ("Michigan," Self-**Clearing, Automatic, etc.), Detroit, Mich.
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
Nelson, Charles, 439 E 10th, New York
Nolte Brass Co., Springfield, O.
Northern Specialty Co. ("Northern" Self-Closing Safety), Utica, N. Y.
Ohio Brass Co. ("Ohio"), Mansfield, O.
Ohio Injector Co., Wadsworth, O.
Penberthy Injector Co. (Automatic), 346 Holden av, Detroit, Mich.
**PITTSBURGH GAGE & SUPPLY CO.** (Self-Closing), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works, Cincinnati, O.
Reliable Water Gauge Co. ("Reliable" Boiler), St. Louis, Mo.
Reliance Gauge Column Co. ("Reliance" Lever, Quick Closing), Cleveland, O.
Roberts Brass Mfg. Co., Detroit, Mich.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Standard Supply & Equipment Co. ("Morger Reflex"), Phila., Pa.
Star Brass Mfg. Co. ("Eureka"), 103 E Dedham, Boston, Mass.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Swift Lubricator Co., Elmira, N. Y.
**Van Duzen E. W. Co., 428 E 2d, Cincinnati, O.**
**Western Valve Co., 43 W Randolph, Chicago, Ill.**
**Williams Gauge Co. ("Williams" Quick Closing), Pittsburg, Pa.**
**Wright Mfg. Co. ("The Wright" Water Pressure, Self-Closing), Detroit, Mich.**

### 4101—Gauges (Water Depth)
**BRISTOL CO., Waterbury, Conn., &** 114 Liberty, New York. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

### 4101a—Gauges (Water Level, "Bristol's" Recording)
**BRISTOL CO., Waterbury, Conn.** (See adv. index & branch offices, end of book)

## Gauges (Water Pressure)
(See Gauges, Water)

### 4102—Gauges (Water, Self-Cleaning)
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)

### 4103—Gauges (Waterworks)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

### 4104— Gauges (Wheel)
Gage Tool Co. ("Gage" Marking), Vineland, N. J.

### 4105— Gauges (Wire)
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Gerecke, August, Carlstadt, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

### 4106—Gauges (Wireman's Calculating)
Manhattan Electrical Supply Co., 17 Park pl. New York, & 188 5th av, Chicago, Ill.

### 4107—Gauges (Wood Turners', Plumbers', Etc.)
**BUFFUM TOOL CO. (Plumbers', etc.),** Louisiana, Mo. (See adv. index & branch offices, end of book)

### 4108—Gauges (Worm Thread Tool)
Brown & Sharpe Mfg. Co., Providence, R. I.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)**

### 4109— Gauges (Yield)
**SHORE INSTRUMENT & MFG. CO.** (For Rubber, etc.), 557 W 22d, New York. (See adv. index & branch offices, end of book)

### 4110— Gauze (Surgical)
Johnson & Johnson, New Brunswick, N. J.

### 4111— Gear Blanks
**AMERICAN SPIRAL PIPE WORKS.** (Drop Forged), W. 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**AMERICAN VULCANIZED FIBRE CO.** (Fibre), Wilmington, Del. (See adv. index, end of book)
**ANDERSON FORGE & MACHINE CO.** (Drop Forged), Fairview, Detroit, Mich. (See adv. index, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.

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**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv index, end of book)
**DIAMOND STATE FIBRE CO. (Hard** Fibre), Elsmere, Del. (See adv. index, end of book)
Electric Welding Products Co. (Steel), Cleveland, O.
**GANSCHOW, WM. CO. (Castings &** Forgings), 1011 Washington boul., Chicago, Ill. (See adv. index, end of book)
Irvington Mfg. Co. (Drop Forged), Irvington, N. J.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Obenberger Drop Forge Co. (Forged), Milwaukee, Wis.
Smith, A. O. Co. (Drop Forged), Milwaukee, Wis.
**WORCESTER PRESSED STEEL CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 4112—Gear Blanks (Rawhide)

(See also Gears & Pinions, Rawhide)
Colonial Leather Co., Elston av & Bradley, Chicago, Ill.
**GANSCHOW, WM. CO., 1011 Washington** boul, Chicago, Ill. (See adv. index, end of book)

## 4113— Gear Cases

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
Columbia Machine Works & Malleable Iron Co. ("Columbia" All Steel), 269 Chestnut Brooklyn, N. Y.
Electric Service Supplies Co. ("Lyon" Reinforced Steel), 1020 Filbert, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**GLOBE MACHINE & STAMPING CO.** (Pressed Steel), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Morris Iron Co. ("Corbett"), 90 West, New York
Phila. Electrical & Mfg. Co. ("Pemco" Malleable Iron), 1228 N 31st, Phila., Pa.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 4114—Gear Protective Composition

Plomo Specialty Mfg. Co. ("Plomo"), Cleve- Whitmore Mfg. Co., Cleveland, O. land, O.

## 4115—Gearing (Cane Mill)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 270 Washington** boul, Chicago, Ill. (See adv. index, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**NUTTALL, R. D. CO., Fayette & Gar-**rison pl., Pittsburg, Pa. (See adv. index, end of book)

## 4116—Gearing (Skylight)

Weiss, H. & Co., 20 Cliff, New York

## 4117—Gearing (Wharf Drop)

American Ship Windlass Co. ("Winters"), Providence, R. I.

## 4118—Gears (Automobile)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**DAVIS, RODNEY, 626 Race, Phila.,** Pa. (See adv. index, end of book)
Flanders Mfg. Co., Pontiac, Mich.
**FOOTE BROS. GEAR & MACHINE** Co., 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)

## 4119—Gears (Automobile Equalizing)

**Barnes Gear Co., Oswego, N. Y.**
**Borbein Auto Co., 2109 N 9th, St. Louis, Mo.**
**Brown Lipe Gear Co., Syracuse, N. Y.**
Brown & Sharpe Mfg. Co., Providence, R. I.
Bultman, F. H. & Co., Cleveland, O.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Chester Engineering & Machine Co., Chester, Pa.
Cross Gear & Engine Co., Detroit, Mich.
Cullman Wheel Co., 1030 Dunning, Chicago, Ill.
Dayton Electrical Mfg. Co. ("Gray"), Dayton, Ohio
Earle Gear & Machine Co., Stenton & Wyoming, Phila., Pa.
Forg, Peter, 50 Park, Somerville, Mass.
**GANSCHOW, WM. CO., 1011 Wash-**ington boul, Chicago, Ill. (See adv. index, end of book)
Gear Grinding Machine Co., Detroit, Mich.
**Gleason Works, Rochester, N. Y.**
**Long Arm System Co., Cleveland, Ohio.**
**Metal Products Co., Detroit, Mich.**
**NUTTALL, R. D. CO., Fayette & Gar-**rison pl., Pittsburg, Pa. (See adv. index, end of book)
**Providence Engineering Works, Providence, R. I.**
Ross Gear & Tool Co., Lafayette, Ind.
Smith, A. O. Co., Milwaukee, Wis.
Spacke, F. W. Mch. Co., Indianapolis, Ind.
Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.
Virtue & Pound Mfg. Co., Owatonna, Minn.
Warner Gear Co. ("Warner"), Muncie, Ind.

## 4120—Gears (Automobile Running)

Auto Supply Co., 1789 B'way, New York
Barnes Gear Co., Oswego, N. Y.
Borbein Auto Co., 2108 N 9th, St. Louis, Mo.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Covert Motor Vehicle Co., Lockport, N. Y.
Cross Gear & Engine Co., Detroit, Mich.
Earle Gear & Machine Co., Stenton & Wyoming, Phila., Pa.
Elwell-Parker Electric Co., Cleveland, O.
Light Mfg. & Foundry Co., Pottstown, Pa.
Locke Regulator Co., Salem, Mass.
Muncie Wheel Co., Muncie, Ind.
**NUTTALL, R. D. CO., Fayette & Gar-**rison pl., Pittsburg, Pa. (See adv. index, end of book)
Relay Motor Car Co. ("Wyoma"), Reading, Pa.
Smith, A. O. Co., Milwaukee, Wis.
Standard Roller Bearing Co., 49th & Girard av. Philadelphia, Pa.
Torbensen Motor Car Co., Bloomfield, N. J.
Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.
Walker, E. C. Co., Louisville, Ky.
Wall, R. C. Mfg. Co., 1334 Race, Phila., Pa.

## 4121—Gears (Automobile Speed)

**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

## 4122—Gears (Automobile Steering, Irreversible)

Barnes Gear Co., Oswego, N. Y.
Borbein Auto Co., 2108 N 9th, St. Louis, Mo.
**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Brown Lipe Gear Co., Syracuse, N. Y.
Bultman, F. H. & Co., Cleveland, O.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See ing, Phila., Pa.
Chester Engineering & Machine Co., Chester, Pa.
Columbus Screw & Machine Co. ("Columbus"). Columbus, Ohio
Cross Gear & Engine Co. ("G. & A."), Detroit, Mich.
Earle Gear & Machine Co., Stenton & Wyom-
Lavigne Mfg. Co., Detroit, Mich.
Locke Regulator Co., Salem, Mass.
Noye Mfg. Co., 50 Lakeview av, Buffalo, N. Y.
Schweppe & Wiet Mfg. Co., Detroit, Mich.
Smith, A. O. Co., Milwaukee, Wis.
Smith & Williams, Columbus, O.
Steam Carriage Roller Co., Oswego, N. Y.
Van Dorn & Dutton Co., 2714 E 79th, S E, Warner Gear Co., Muncie, Ind. **Cleveland, O.**
Weeber, C. F., Albany, N. Y.

## 4123—Gears (Automobile Steering, Reversible)

Barnes Gear Co., Oswego, N. Y.
Borbein, H. F. & Co., 2108 N 9th, St. Louis, Mo.
Brown Lipe Gear Co., Syracuse, N. Y.
Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See
Cross Gear & Engine Co. ("G. & A."), Detroit, Mich.
**Earle Gear & Machine Co., Stenton & Wyom-**ing, Phila., Pa.
Lavigne Mfg. Co., Detroit, Mich.
Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.
Smith, A. O. Co., Milwaukee, Wis.
Smith & Williams, Columbus, O.
Van Arnam Mfg. Co., Ft. Wayne, Ind.
**Van Dorn & Dutton Co., 2714 E 79th, S E,**
Warner Gear Co., Muncie, Ind. **Cleveland, O.**

## 4124—Gears (Boom Swinging)

Dake Engine Co., Grand Haven, Mich.

## 4125—Gears (Brick Machinery)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW CO. WM., 1011 Wash-**ington boul, Chicago, Ill. (See adv. index, end of book)
James, D. O. Mfg. Co. 1120 W Monroe, Chicago, Ill.
**NUTTALL, R. D. CO., Fayette & Gar-**rison pl, Pittsburg, Pa. (See adv. index, end of book)

## 4126— Gears (Car Motor)

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

## 4127—Gears (Cement Machinery)

(See also Gears, Cut)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Wash-**ington boul, Chicago, Ill. (See adv. index, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**NUTTALL, R. D. CO., Fayette & Gar-**rison pl, Pittsburg, Pa. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

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## 4128— Gears (Cut)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Arthur Co., 188 Front, New York
Bilgram, Hugo (Bevel, Mitre, Mortise, Spur, etc.), 1235 Spring Garden, Phila., Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Blount & Lovell (Gear Cutting), 100 High, Boston, Mass.
**BOSTON GEAR WORKS (Bevel,** Mitre, Spur, etc., Also Brass), Norfolk Downs, Mass. (See adv. index, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
Buffalo Gear & Pattern Works, Buffalo, N. Y.
Bultman, F. H. & Co., Cleveland, O.
**CALDWELL, H. W. & SON CO.** ("Caldwell-Walker" Spur, Spur Mortise, Bevel, Bevel Mortise, Miter), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chester Engineering & Machine Co., Chester, Pa.
Chickasaw Iron Works, Memphis, Tenn.
Cincinnati Gear Co., Cincinnati, O.
Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.
Cresson, Geo. V. Co., Allegheny av. W of 17th, Phila., Pa., & West St bldg, New York
Cross Gear & Engine Co. (Spiral, Worm, etc.), Detroit, Mich.
**DAVIS, RODNEY (All Kinds), 626** Race, Phila., Pa. (See adv. index, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Eagle Tool & Machine Co. (Also Rack), N S. Pittsburg, Pa.
Earle Gear & Machine Co. (Of All Descriptions), Stenton & Wyoming avs, Phila., Pa.
Eastwood, Benj Co., Paterson, N. J.
Eclipse Machine Co., Elmira, N. Y.
Farrel Foundry & Machine Co. (Machine Cut), Ansonia, Conn.
**FAWCUS MACHINE CO. (Steel, Iron, Bronze & Rawhide), 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)
Fellows Gear Shaper Co., Springfield, Vt.
Flanders Mfg. Co., Pontiac, Mich.
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
Frost Gear & Machine Co. (Bevel, Spiral, Spur), Jackson, Mich.
**GANSCHOW, WM. CO. (Bevel, Mitre, Mortise,** Spur, etc.), 1011 Washington boul, Gear Grinding Machine Co., Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gleason Works, Rochester, N. Y.
Gould & Eberhardt (Spiral, Spur, Mitre, Bevel, Worm, etc.), Newark, N. J.
Grant Gear Works, 6 Portland, Boston, Mass.
Greenwald, I. & E. Co., Cincinnati, O.
Hardinge Bros., 1036 Lincoln av, Chicago, Ill.
Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.
Holyoke Machine Co., Holyoke, Mass.
Horsburgh & Scott Co., Cleveland, O.
Ideal Mfg. Co. (Spur), Anderson, Ind.
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
Johnson Gear Co., San Francisco, Cal.
Jones, E. D. & Sons Co. (Bevel, Mitre, Mortise Spur, etc.), Pittsfield, Mass.
Kentucky Gear & Machine Co., Louisville, Ky.
Lane Mfg. Co., Montpelier, Vt.
Lauer, Jno. Machine Co., Detroit, Mich.
Leffel, Jas. & Co., Springfield, O.
**LINK BELT COMPANY (Bevel,** Mitre, Spur, etc.), Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Mathews, Hugh, Kansas City, Mo.
Medart Patent Pulley Co. (Plain or Mortise), St. Louis, Mo.
Meisel Press & Mfg. Co., Boston, Mass.
Mesta Machine Co., Pittsburg, Pa.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Motor Car Specialty Co. (Small), Trenton, N. J.
National Gear Wheel Foundry, N S. Pittsburg, Pa.
Newark Gear Cutting Machine Co. (All Kinds), Newark, N. J.
New England Gear Works (Spur, Bevel, Spiral, etc.), 100 Purchase, Boston, Mass.
New Process Rawhide Co. (Cut Rawhide), Syracuse, N. Y.
New York Gear Works, 56 Greenpoint av, Brooklyn, N. Y.
Nordyke & Marmon Co. (Mitre, Iron, Spur, Bevel, Mortise, etc.), Indianapolis, Ind.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO. (Spur, Bevel,** Mitre, Spiral, Worm & Herringbone), Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
Pacific Gear & Tool Works (Bevel, Mitre, Mortise, Spur, etc.), 1265 Folsom, San Francisco, Cal.
Philadelphia Gear Works (Inc.), (Bevel Planed Teeth), 12th & Vine, Phila., Pa.
Quride Co. ("Quride"), Syracuse, N. Y.
Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delavan, Brooklyn, N. Y.
Platt Iron Works Co., Dayton, O.
Poole Engineering & Mach. Co., Baltimore, Md.
Redington, F. B. Co., 35 Monroe, Chicago, Ill.
Sawyer Gear Works, 5120 St. Clair, N W, Cleveland, O.
Simonds Mfg. Co., Pittsburg, Pa.
Skillin & Richards Mfg. Co. (All Kinds), 46th av & Courtland, Chicago, Ill.
Sommerfeld Machine & Mfg. Co. (Bevel, Mortise, Spur, etc., Cast Iron or Brass), 220 2d av, Pittsburg, Pa.
Spacke, F. W. Machine Co., Indianapolis, Ind.
Standard Mfg. Co., Bridgeport, Conn.
**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)
Tichenor, F. C. Gear Works, Peoria, Ill.
Tool Steel Gear & Pinion Co., Carthage, Cincinnati, Ohio
Townsend Furnace & Machine Shop Co. (Spur, etc.), Albany, N. Y.
Trump Mfg. Co., Springfield, O.
Turley Gear & Machine Co., St. Louis, Mo.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.
Vulcan Iron Works, Wilkes-Barre, Pa.
Warner Gear Co. (Spur, Bevel & Worm Type), Muncie, Ind.
**WEBSTER MFG. CO. (Spur, Bevel,** Mitre, etc.), 2410 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Woburn Gear Works, Woburn, Mass.
**WORCESTER PRESSED STEEL CO., Wor**cester, Mass. (See adv. index & branch offices, end of book)

## Gears (Die Cast)

(See Castings, Die Cast)

## 4129— Gears (Fibre)

**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Cincinnati Gear Co., Cincinnati, O.
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wilmington,** Del.; Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Del. (See adv. index, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Earle Gear & Machine Co., Stenton & Wyoming, Phila., Pa.
Eastwood, Benj. Co., Paterson, N. J.
**FAWCUS MACHINE CO., 2820 Small**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Wash**ington boul, Chicago, Ill. (See adv. index, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**MORRIS ELECTRIC CO., Wilming**ton, Del.
National Fibre & Insulation Co., Yorklyn, Del.
**NUTTALL, R. D. CO., Fayette & Gar**rison pl., Pittsburg, Pa. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
Turley Gear & Machine Co., St. Louis, Mo.
Van Dorn & Darton Co., Cleveland, O.
**WILMINGTON FIBRE SPECIALTY CO.,** Wilmington, Del. (See adv. index & branch offices, end of book)




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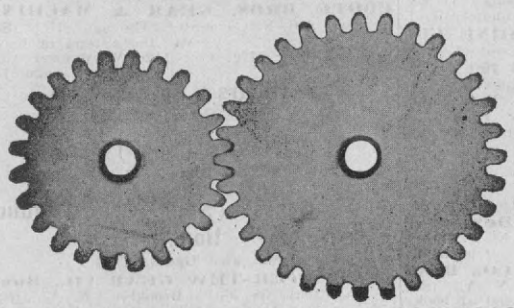
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### 4130– Gears for Dredges

(See also Gears, Cut)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)

**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)

**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)

**GANSCHOW, WM. CO., 1011 Washington boul,** Chicago, Ill. (See adv. index, end of book)

James, D. O. Mfg. Co., 1120 W Monroe, Chicago., Ill.

**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

### 4131–Gears for Steam Shovels

(See also Gears, Cut)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)

**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices ,end of book)

**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)

**GANSCHOW, WM. CO., 1011 Washington boul,** Chicago, Ill. (See adv. index, end of book)

James, D. O. Mfg. Co., 1120 W Monroe, Chicago., Ill.

**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

### 4132–Gears (Friction Clutch)

Armstrong, James C. Machine & Foundry Co., Peoria, Ill.

Bultman, F. H. & Co., Cleveland, O.

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)

Chickasaw Iron Works, Memphis, Tenn.

Dodge Mfg. Co., Mishawaka, Ind.

Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.

Hunt, Rodney Machine Co., Orange, Mass.

Medart Patent Pulley Co., St. Louis, Mo.

National Gear Wheel Fdy., Pittsburg, Pa.

Noye Mfg. Co., Buffalo, N. Y.

**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

**Philadelphia Gear Works (Inc.), 12th & Vine,**

Platt Iron Works Co., Dayton, O. Phila., Pa.

Poole Engineering & Mach. Co., Baltimore, Md.

Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.

**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

### 4133– Gears (Internal)

Armstrong, James C. Machine & Foundry Co., Peoria, Ill.

Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.

Blount & Lovell, Boston, Mass.

**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.

Bultman, F. H. & Co., Cleveland, O.

**CALDWELL, H. W. & SON CO.** ("Caldwell-Walker"), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)

Cincinnati Gear Co., Cincinnati, O.

**DAVIS, RODNEY, 626 Race, Phila., Pa.** (See adv. index, end of book)

Dodge Mfg. Co., Mishawaka, Ind.

Earle Gear & Machine Co., Stenton & Wyoming avs, Phila., Pa.

Eastwood, Benj. Co., Paterson, N. J.

Flanders Mfg. Co., Pontiac, Mich.

**FOOTE BROS. GEAR & MACHINE CO.,** 214 N Carpenter, Chicago, Ill. (See adv. index, end of book)

Frost Gear & Machine Co. Jackson, Mich.

**GANSCHOW, WM. CO., 1011 Washington boul,** Chicago, Ill. (See adv. index, end of book)

Gleason Works, Rochester, N. Y.

Gould & Eberhardt, Newark, N. J.

James, D. O. Mfg. Co., 1120 W Monroe, Chicago., Ill.

Meisel Press & Mfg. Co., Boston, Mass.

Newark Gear Cutting Machine Co., Newark, N. J.

New Process Raw Hide Co., Syracuse, N. Y.

Nordyke & Marmon Co., Indianapolis, Ind.

Noye Mfg. Co., Buffalo, N. Y.

**NUTTALL, R. D. CO., Fayette & Garrison pl,** Pittsburg, Pa. (See adv. index, end of book)

Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

Plamondon, A. Mfg. Co., 12 N Clinton, Chicago, Ill.

Quride Co. ("Quride"), Syracuse, N. Y.

Poole Engineering & Mach. Co., Baltimore, Md.

Sommerfeld Machine & Mfg. Co. (Steel, Cast Iron & Brass), Pittsburg, Pa.

Syracuse Rawhide Mfg. Co., Syracuse, N. Y.

**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)

**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.

Welch, T. F. Co. (Brass), 55 Sudbury, Boston, Mass.

### 4134–Gears (Machine Molded)

Allen, Edgar, American Manganese Steel Co.,

**BIRDSBORO STEEL FOUNDRY &** Machine Co. (Iron & Steel), Birdsboro, Pa.

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Buda Co., Railway Exch bldg., Chicago, Ill.

**CALDWELL, H. W. & SON CO.** ("Caldwell-Walker"), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)


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Dodge Mfg. Co., Mishawaka, Ind.
Farrel Foundry & Machine Co., Ansonia, Conn.
**FAWCUS MACHINE CO., 2820 Smallman**, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Gleason Works, Rochester, N. Y.
Greenwald, I. & E. Co., Cincinnati, O.
Hubbard Steel Foundry Co., East Chicago, Ill.
Mesta Machine Co., Pittsburg, Pa.
**MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. in dex & branch offices, end of book)**
National Gear Wheel Foundry, N S, Pittsburg, Pa.
**Plamondon, A. Mfg. Co., 12 N Clinton, Chicago, Ill.**
**Poole Engineering & Machine Co., Baltimore.**
**Shriver, T. & Co., Harrison, N. J. Md.**
**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)
Tichenor, F. C. Gear Works, Peoria, Ill.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (Cast Steel), Pittsburg, Pa.
Van Dorn & Dutton Co., Cleveland, O.

## 4135—Gears (Marine, Reversing)

Armstrong, James C. Machine & Foundry Co., Peoria, Ill.
Auto Engine Works, St. Paul, Minn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Bultman, F. H. & Co., Cleveland, O.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**Continental Motor Mfg. Co., Muskegon, Mich.**
**Crouch, Chas. P. & Co., Chicago, Ill.**
**Evans Stamping & Plating Co. ("Paragon"), Taunton, Mass.**
**FAWCUS MACHINE CO. (Repair Parts), 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)**
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill.** (See adv. index, end of book
Gies Gear Co. ("Gies" for Gasoline Motor Boats), 345 Bellevue av, Detroit, Mich.
**Grand Rapids Gas Engine & Yacht Co., Grand Rapids, Mich.**
**Holliday Mfg. & Engineering Co., 160 Bunker, Chicago, Ill.**
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**Johnson, Carlyle Machine Co., Manchester, Conn.**
**Kaestner, Chas. Mfg. Co., South Bend, Ind.**
**Michigan Wheel Co., Grand Rapids, Mich.**
**Milwaukee Auto. Engine & Supply Co., Milwaukee, Wis.**
**New York Gear Works ("Ball" Improved Reverse Gear for Motor Boats), 56 Greenpoint av, Brooklyn, N. Y.**
**NUTTALL, R. D. CO. (Repair Parts), Fayette, Pittsburg, Pa. (See adv. index, end of book)**
**Perfection Reversing Gear & Supply Co. ("Perfection"), 45 Vesey, New York**
**Smith & Balbridge Machine Co. ("Balbridge"), Detroit, Mich.**
**Snow & Petrelli Mfg. Co. ("Joe's"), New Haven, Conn.**
Tuttle, H. A. Mfg. Co., East Norwalk, Conn.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
**Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.**

## 4136—Gears (Marine Steering, Hand & Steam)

Bultman, F. H. & Co., Cleveland, O.
**Dake Engine Co. (Steam), Grand Haven, Mich.**
**Durkee, C. D. & Co. (Hand), 2 South, New York**
**Edson Mfg. Co. (Hand), Boston, Mass.**
**Hyde Windlass Co. ("Brown" Steam), Bath, Me.**
**Johnston, Wm. T. Co. ("Cincinnati" Steam).** Cincinnati, O.
Laughlin, Thomas Co. (Hand), Portland, Me.
**Lockwood Mfg. Co. ("Reeds" Hand), 61 Summer, Boston, Mass.**
**Marine Hardware Co. (Hand), Peabody, Mass.**
**Marine Mfg. & Supply Co. ("Columbia," "Lavarck," "Planet," Hand), 158 South. New York**
Pawling & Harnischfeger (Steam), Milwaukee, Wis.
**Philadelphia Machine Works (Steering Engines), 67 Laurel, Philadelphia, Pa.**
**Richardson's, N. Sons ("Challenge" "Little Giant" Hand), Gloucester, Mass.**
**Sheriffs Mfg. Co., Milwaukee, Wis.**
**Stoddart, A. P. & Co. (Hand), Gloucester, Mass.**
Textile Finishing Machine Co. (Steam), 17 Exchange pl, Providence, R. I.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
**Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.**
Verdon, Fred'k A. Co. (Steam), W. New Brighton, S. I., N. Y.
Williamson Bros. Co. (Steam), Phila., Pa.

## 4137— Gears (Mill)

(See also Gears, Cut)

**BROWN, A. & F. CO., 25 Dey, New** York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Smallman**, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

## 4138—Gears (Mine Motor)

(See also Gears, Cut)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)**

## 4139—Gears (Mining Machine)

(See also Gears, Cut)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill.** (See adv. index, end of book
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index. end of book)**
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

## Gears (Raw Hide)

**(See Gears & Pinions, Rawhide)**

## 4140—Gears (Reduction, for Motors)

(See also Variable Speed Transmission)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill.** (See adv. index, end of book
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)**

## Gears (Reversing)

**(See Gears, Marine Reversing)**

## 4141—Gears (Speed Reducing)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FOOTE BROS. GEAR & MACHINE** Co., 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.

## Gears (Spiral)

**(See Gears, Cut)**

## Gears (Spur)

**(See Gears, Cut)**

## 4142—Gears (Spur Gear Reduction)

(See also Gears, Cut)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill. (See adv. index, end of book)**
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

## Gears (Steering)

**(See Gears, Automobile, Steering; also Gears, Marine, Steering)**

## 4143—Gears (Street Car Axle)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**Brown & Sharpe Mfg. Co., Providence, R. I.**
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Catskill Foundry & Machine Works, Catskill, N. Y.
Cleveland Gear Works, Cleveland, O.
Falk Co., Milwaukee, Wis.
**FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)**
Gear Grinding Machine Co., Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index,** Simonds Mfg. Co., Pittsburg, Pa. end of book)
Tool Steel Gear & Pinion Co., Carthage, Cincinnati, O.
Turley Gear & Machine Co., St. Louis, Mo.
Worcester Gear Works, Worcester, Mass.

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## 4144—Gears (Transmission or Speed Changing)

Armstrong, James C. Machine & Foundry Co., Peoria, Ill.
Auto Supply Co., 1789 B'way, New York
Blood Bros. Automobile & Machine Co., Kalamazoo, Mich.
Brennan Motor Mfg. Co., Syracuse, N. Y.
Brown Lipe Gear Co., Syracuse, N. Y.
**Brown & Sharpe Mfg. Co. (Repair Parts), Providence, R. I.**
**Buffalo Engine Co. ("Salisbury"), Buffalo, Cady, C. N. Co., Canastota, N. Y. N. Y.**
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Case Mfg. Co., Columbus, O.
Chester Engineering & Machine Co., Chester, Pa.
Cotta Transmission Co. (For Touring Cars, etc.), Rockford, Ill.
Cross Gear & Engine Co., Detroit, Mich.
Earle Gear & Machine Co., Stenton & Wyoming, Phila., Pa.
**ELECTRIC WHEEL CO. (For Farm** Trucks), Quincy, Ill. (See adv. index, end of book)
**FAWCUS MACHINE CO. (Repair Parts), 2820-2828 Smallman, Pittsburg, Pa. (See adv. index, end of book)**
Fitch Gear Co., Rome, N. Y.
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill. (See adv. index,** end of book)
Gear Grinding Machine Co., Detroit, Mich.
Gies Gear Co., Detroit, Mich.
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
Locke Regulator Co., Salem, O.
Michigan Automobile Co. (Ltd.), Kalamazoo, Mich.
**Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.**
Motor Car Power Equipment Co., Germania bldg, Milwaukee, Wis.
Murray, W. B., 1253 Milwaukee av, Chicago, Ill.
New York Gear Works ("Ball" Improved), 56 Greenpoint av, Brooklyn, N. Y.
**NORTHERN ENGINEERING WKS., 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)**
**NUTTALL, R. D. CO. (Repair Parts),** Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
**Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.**
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Smith, A. O. Co., Milwaukee, Wis.
Taylor & Fenn Co., Hartford, Conn.
Toepfer's, Frank Sons, Milwaukee, Wis.
Turley Gear & Machine Co., St. Louis, Mo.
**Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.**
Virtue & Pound Mfg. Co., Owatonna, Minn.
Warner Gear Co., Muncie, Ind.
**Western Motor Co. ("Rutenber"), Logansport, Ind.**

## 4145—Gears (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 4145a— Gears (Wagon)

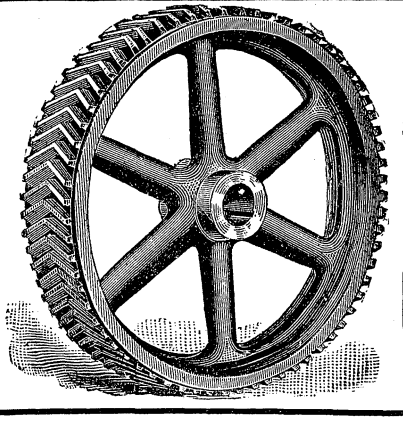
Akron-Selle Co., Akron, O.

## 4146— Gears (Worm)

Albro-Clem Elevator Co. ("Hindley," "Albro"), Phila., Pa.
Armstrong, James C. Machine & Foundry Co., Peoria, Ill.
Arthur Co., 188 Front, New York
Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.
Blount & Lovell, Boston, Mass.
**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
**Bultman, F. H. & Co., Cleveland, O.**
**CALDWELL, H. W. & SON CO. ("Caldwell-Walker"), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)**
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**Cincinnati Gear Co., Cincinnati, O.**
**Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.**
Cross Gear & Engine Co., Detroit, Mich.
**Damascus Bronze Co. ("Damascus" Bronze for Rolling Mills, etc.), N S , Pittsburg, Pa.**
**DAVIS, RODNEY, 626 Race, Phila., Pa. (See adv. index, end of book)**
**Dodge Mfg. Co., Mishawaka, Ind.**
**Earle Gear & Machine Co., Stenton & Wyoming avs, Phila., Pa.**
Eastwood, Benj. Co., Paterson, N. J.
**FAWCUS MACHINE CO. (Steel, Iron, Bronze & Rawhide), 2820 Smallman, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Flanders Mfg. Co., Pontiac, Mich.
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**Frost Gear & Machine Co., Jackson, Mich.**
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill.** (See adv. index, end of book)
**Gleason Works, Rochester, N. Y.**
**Gould & Eberhardt, Newark, N. J.**
Greenwald, I. & E. Co., Cincinnati, O.
**Horsburgh & Scott Co., 5114 Hamilton, Cleveland, O.**
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
**Medart Patent Pulley Co., 3500 DeKalb, St. Louis, Mo.**
Meisel Press & Mfg. Co., Boston, Mass.
Mesta Machine Co., Pittsburg, Pa.
**MINNEAPOLIS STEEL & MACHINE** ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
National Gear Wheel Foundry, N S, Pittsburg, Pa.
Newark Gear Cutting Machine Co. (Worm Wheels Generated Without Holes), Newark, N. J.
New England Gear Works, 100 Purchase, Boston, Mass.
**New Process Rawhide Co., Syracuse, N. Y.**
**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa.** (See adv. index, end of book)
**OTIS ELEVATOR CO., 17 Battery pl, New** York. (See adv. index & branch offices, end of book)
Pacific Gear & Tool Works, 1265 Folsom, San Francisco, Cal.
Philadelphia Gear Works (Inc.) (Brass, etc.), 12th & Vine, Phila., Pa.
Philadelphia Roll & Machine Co., S 23d & Washinton av, Phila., Pa.
Plamondon, A. Mfg. Co., 12 N Clinton, Chicago, Ill.
Poole Engineering & Mach. Co., Baltimore, Md.
Sawyer Gear Works, 5120 St. Clair, N W, Cleveland, O.
Simonds Mfg. Co. (For Electric Railways, etc.), Pittsburg, Pa.
**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)
Tichenor, F. C. Gear Works, Peoria, Ill.
Turley Gear & Machine Co., St. Louis, Mo.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
**Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.**
Vulcan Iron Works, Wilkes-Barre, Pa.
Warner Gear Co., Munice, Ind.
**Welch, T. F. Co. (Brass), 55 Sudbury, Boston, Mass.**
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 4147—Gears (Worm Gear Reduction)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul, Chicago, Ill.** (See adv. index, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

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## 4148– Gears & Pinions

Allen, Edgar, American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Armstrong, James C. Machine & Foundry Co., Peoria, Ill.
Arthur Co., 188 Front, New York
**Atha Steel Casting Co. ("Titan," Steel for Motor Gears, etc.), Newark, N. J.**
Baldwin Chain & Mfg. Co., Worcester, Mass.
Bethlehem Steel Co., South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
Bultman, F. H. & Co., Cleveland, O.
Catskill Foundry & Mach. Works, Catskill, N. Y.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cincinnati Gear Co., Cincinnati, O.
Cullman Wheel Co. (Sprockets Only), 1021 Greenwood terrace, Chicago, Ill.
**DAVIS, RODNEY, 624 Race, Phila., Pa. (See adv. index, end of book)**
Dodge Mfg. Co., Mishawaka, Ind.
Earle Gear & Machine Co., Stenton & Wyoming avs, Phila., Pa.
Eastwood, Benj. Co., Paterson, N. J.
Eccles & Smith Co., San Francisco, Cal.
Falk Co. (Street Railway), Milwaukee, Wis.
**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)
Fellows Gear Shaper Co., Springfield, Vt.
Flanders Mfg. Co., Pontiac, Mich.
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul,** Chicago, Ill. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO. ("Haskins," Double Spiral for Rolling Mills, etc.),** 901 Bingham, Pittsburg, Pa. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gleason Works, Rochester, N. Y.
Grant Gear Works, Boston, Mass.
Horsburgh & Scott Co., Cleveland, O.
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Meisel Press & Mfg. Co., 944 Dorchester av, Boston, Mass.
National Car Coupler Co. (Open Hearth Steel, All Sizes), Monadnock blk, Chicago, Ill.
National Gear Wheel Foundry, North Side, Pittsburg, Pa.
New Process Raw Hide Co., Syracuse, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
**NUTTALL, R. D. CO. (Rawhide Fibre,** etc.), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
Ohio Brass Co., Mansfield, O.
Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.
Poole Engineering & Mach. Co., Baltimore, Md.
Quride Co. ("Quride"), Syracuse, N. Y.
Sawyer Gear Works, 5120 St. Clair, N W, Cleveland, O.
Simonds Mfg. Co. Elec. R'y), Pittsburg, Pa.
Titan Steel Casting Co., Newark, N. J.
Tool Steel Gear & Pinion Co., Carthage, Cincinnati, O.
Turley Gear & Machine Co., St. Louis, Mo.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.

## 4149–Gears & Pinions (Automobile)

(See also Gears & Pinions)

**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul,** Chicago, Ill. (See adv. index, end of book)
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**NUTTALL, R. D. CO., Fayette & Garrison pl,** Pittsburg, Pa. (See adv. index, end of book)

## 4150–Gears & Pinions (Mill)

Bethlehem Steel Co., South Bethlehem, Pa.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index, end of book)
Garrison, A. Foundry Co., Pittsburg, Pa.
Mackintosh, Hemphill & Co., Pittsburg, Pa.
Mesta Machine Co., Pittsburg, Pa.
**NUTTALL, R. & CO., Fayette & Garrison pl,** Pittsburg, Pa. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

## 4151–Gears & Pinions (Rawhide)

**BOSTON GEAR WORKS., Norfolk** Downs, Mass. (See adv. index, end of book)
Bultman, F. H. & Co., Cleveland, O.
Chicago Rawhide Mfg. Co., Chicago, Ill.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Cincinnati Gear Co., Cincinnati, O.
**DAVIS, RODNEY, 626 Race, Phila.,** Pa. (See adv. index, end of book)
Earle Gear & Machine Co., Stenton & Wyoming avs. Phila., Pa.
**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Washington boul,** Chicago, Ill. (See adv. index, end of book)
Horsburgh & Scott Co., Cleveland, O.
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
Kentucky Gear & Machine Co., Louisville, Ky.
Meisel Press & Mfg. Co., Boston, Mass.
New Process Rawhide Co., Syracuse, N. Y.
**NUTTALL, R. D. CO., Fayette & Garrison pl,** Pittsburg, Pa. (See adv. index, end of book)
Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
Syracuse Rawhide Mfg. Co., Syracuse, N. Y.
Turley Gear & Machine Co., St. Louis, Mo.
Western Rawhide & Belting Co., Milwaukee, Wis.

## 4152– Gelatine Mfrs.

American Agricultural Chemical Co., 2 Rector, New York
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of
Masek, C. Glue Co., Cleveland, O. book)

## 4153–Generating Sets (Motor)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Connecticut Dynamo & Motor Co., Irvington,
Crocker-Wheeler Co., Ampere, N. J. N. J.
Benton, Thos. P. & Son (Direct Current, 1 to 100 h. p.), La Crosse, Wis.
**ECK DYNAMO & MOTOR CO., Belleville,** N. J. (See adv. index, end of book)
Electric Machinery Co. (Direct Current & One, Two & Three Phase Alternating Current, Engine & Belted Type), Minneapolis, Minn.
Ensberg's Electric & Mechanical Works, St. Joseph, Mich.
**FAIRBANKS, MORSE & CO., 481 Wabash av,** Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Northern Electrical Mfg. Co., Madison Wis.
**PHOENIX ELECTRIC COMPANY,** Mansfield, O. (See adv. index, end of book)
Portland Co., Portland, Me.
Ridgway Dynamo & Engine Co., Ridgway, Pa.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end
Triumph Electric Co., Cincinnati, O. of book)
**WESTINGHOUSE ELEC. & MFG. CO.** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 4153a–Generating Sets (Steam Engine & Steam Turhop Electric)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

## Generators (Acetylene)

(See Gas Machines, Acetylene)

## 4154–Generators (Chlorine)

(Made of Acid Proof Stoneware)

Didier-March Co., 30 Church, New York
Graham, Chas. Chemical Pottery. Works: 986 Metropolitan av, Brooklyn, N. Y.
Sittig, J. W., 5 Beekman, New York

## 4155–Generators (Electric Lighting)

**ALLIS-CHALMERS CO. (Direct & Alternating),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Engine Co. (Direct), Boundbrook, N.J.
Burke Electric Co. (Direct & Alternating), Erie, Pa.
Crocker-Wheeler Electric Co. (Direct), Ampere,
Diehl Mfg. Co., Elizabeth, N. J. N. J.


**If You Are In Doubt**

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

**They Can Tell You**


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Eager Electric Co. (Direct Current), Watertown, N. Y.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
Electric Machinery Co. (Direct Current and One, Two and Three Phase Alternating Current, Engine & Belted Type, Minneapolis, Minn.
Elwell-Parker Electric Co., Cleveland, O.
Engineering Electric Mfg. Co., Stamford, Conn.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Federal Electric Co. (Direct Current, Belted & Direct Connected), North Girard, Pa.
Fort Wayne Electric Works, Inc. (Direct & Alternating), Fort Wayne, Ind
Garwood Electric Co. (Direct), Garwood, N. J.
**GENERAL ELECTRIC CO. (Direct &** Alternating), Schenectady, N. Y. (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.** ("Ideal"), Mansfield, O. (See adv. index & branch offices, end of book)
Jenney Electric Mfg. Co. (Direct & Alternating), Anderson, Ind.
Kentucky Electrical Co. (Direct), Owensboro, Ky.
Maine Electric Co., Portland, Me.
Northern Electrical Mfg. Co. (Direct & Alternating), Madison, Wis.
**PHOENIX ELECTRIC CO. (Direct &** Alternating), Mansfield, O. (See adv. index, end of book)
Ridgway Dynamo & Engine Co., Ridgway, Pa.
Robbins & Myers Co. (Up to 10-K. W.), Springfield, O.
Roth Bros. & Co., Loomis & Adams, Chicago, Ill.
Sprague Electric Co. (Direct Current up to 1,000 Kw.), 527 W 34th, New York
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)
Triumph Electric Co. (Direct Current), Oakley, Cincinnati, O.
Wagner Electric Mfg. Co. (Direct & Alternating), St. Louis, Mo.
Western Electric Co. (Direct & Alternating), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Direct & Alternating Current), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 4156—Generators (Electric Power)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Engine Co., Boundbrook, N. J.
Bessemer Gas Engine Co., Grove City, Pa.
Burke Electric Co. (Direct & Alternating), Erie, Pa.
Crocker-Wheeler Electric Co. (Direct), Ampere, Diehl Mfg. Co. (Direct), Elizabeth, N. J. N. J.
Eager Electric Co. (Direct Current), Watertown, N. Y.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
Eddy Electric Mfg. Co. (Direct), Windsor, Conn.
Electric Machinery Co. (Direct Current & One, Two & Three Phase Alternating Current, Engine & Belted Type), Minneapolis, Minn.
Electro-Dynamite Co., Bayonne, N. J.


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Several years' successful operation by the Indianapolis & Louisville Traction Co., Central California Traction Co., Washington, Baltimore and Annapolis Electric Railway Co., Aroostock Valley Railway Co., Southern Cambria Railway Co., Shore Line Electric Railway Co., Milwaukee Electric Railway & Light Co., has demonstrated the following advantages:

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**Saving in operating cost and fixed charges.**

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**Successful operation of cars over connecting 600 volt city lines.**

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Rugby and 83 Cannon St., London, E. C.
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Elwell-Parker Electric Co. (Direct), Cleveland, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Federal Electric Co. (Direct Current both Belted & Direct Connected), North Girard, Pa.
Fort Wayne Electric Works, Fort Wayne, Ind
**GENERAL ELECTRIC CO. (Direct &** Alternating), Schenectady, N. Y. (See adv. index & branch offices, end of book)
General Railway Signal Co., Rochester, N. Y.
**IDEAL ELECTRIC & MFG. CO.** ("Ideal"), Mansfield, O. (See adv. index & branch offices, end of book)
Jenney Electric Mfg. Co., Anderson, Ind.
**MECHANICAL APPLIANCE CO., Milwaukee,** Wis. (See adv. index, end of book)
Northern Electrical Mfg. Co. (Direct & Alternating), Madison, Wis.
Northwestern Mfg. Co. (Direct Current up to 75 K. W.), Milwaukee, Wis.
**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO. (Direct &** Alternating), Mansfield, O. (See adv. index, end of book)
Ridgway Dynamo & Engine Co., Ridgway, Pa.
Robbins & Myers Co. (Up to 10 Kw.), Springfield, O.
**STURTEVANT, B. F. CO. (Direct),** Hyde Park, Mass. (See adv index and branch offices, end of book)
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)
Triumph Electric Co. (Direct Current), Oakley, Cincinnati, O.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Direct & Alternating Current), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 4157—Generators (Heat, Hot Water)

Belknap Mfg. Co. ("Belknap"). Bridgeport, Conn.
Milwaukee Heat Generator Co. ("Milwaukee"), Milwaukee, Wis.

## 4158—Generators (Low Voltage)

**IDEAL ELECTRIC & MFG. CO.** (For Electro Metallurgical Work, etc.), Mansfield, O. (See adv. index & branch offices, end of book)
National Air Filter Co. (For Air Purification), 541 Jackson blvd, Chicago, Ill.

## 4159— Generators (Ozone)

Ozone Pure Airifier Co., 160 Adams, Chicago, Ill.
Standard Electro-Utilities Co. ("Vohr"), 312 5th av, Chicago, Ill.


# Westinghouse Electrical Apparatus

Alternating and Direct-Current Generators and Motors, Rotary Converters, Circuit-Breakers, Switches, Switchboards, Rheostats, Electrical Instruments, Lightning Arresters, Controllers, Auto-Starters, Electric Fans, Electric Irons, Etc., Etc.

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## 4160—Generators (Street Railway)

(See also Generators, Electric Power; also Dynamos & Motors)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Engine Co., Boundbrook, N. J.
Crocker-Wheeler Co., Ampere, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Garwood Electric Co., Garwood, N. J.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Kester Electric Co., Terre Haute, Ind.
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)
Ridgway Dynamo & Engine Co. ("Thompson-Ryan"), Ridgway, Pa.
Triumph Electric Co., Oakley, Cincinnati, O.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Direct & Alternating), Union B'k bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 4161—German Silver (Patent Leveled)

Seymour Mfg. Co. (For Soda Fountains, etc.), Seymour, Conn.
Waterbury Brass Co. (For Soda Fountains, etc.), Waterbury, Conn.

## 4162— Giants (Hydraulic)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hendy, Joshua Iron Works, San Francisco, Cal.

## 4163— Gibs (Fibre)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

## 4164— Gibs & Keys

**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)

## 4164a—Glasbrite for Cleaning Windows

Forbes, Benj. P., 409 Superior av, N W, Cleveland, O.

## 4165—Glass (Alabaster Plate)

Bache, Semon & Co., West & Hubert, New York

## 4166— Glass Benders

American Glass Bending Co. (Plate & Window), Parnassus, Pa.
California Art Glass Bending & Cutting Works, San Francisco, Cal.
Cincinnati Beveling & Silvering Co., 430 Oliver, Cincinnati, O.
Denman Glass Bending Works, Newark, N. J.
Donnelly, J. R. Co., 54 Classon av, Brooklyn,
Hadley-Dean Glass Co., St. Louis, Mo. N. Y.
Heckerman, F. W. & Co., 120 Opera pl, Cincinnati, O.
Louisville Ornamental Glass Co., Louisville, Ky.
Oriel Glass Co., St. Louis, Mo.
Penn-American Plate Glass Co., Pittsburg, Pa.
Popper, Leo. & Sons, 7 Sullivan, New York
Potts Bros., New York
Smith, M. A., Newark, N. J.
Standard Plate Glass Co., Butler, Pa.
Western Mirror Plate Co., 824 Wade, Cincinnati, O.

## 4167— Glass (Bent Wire)

**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)

## 4168— Glass Bevelers

Allegan Mirror Plate Co., Allegan, Mich.
Bloom, Alfred Co., Omaha, Neb.
California Art Glass Bendings & Cutting Wks., San Francisco, Cal.
Chandron Co., Baltimore, Md.
Cincinnati Beveling & Silvering Co., 430 Oliver, Cincinnati, O
Cooper, Chas. D., 188 W Houston, New York
Dayton Art Glass Works, Dayton, O.
Donnelly, J. R. Co., 54 Classon av, Brooklyn, N. Y.
Empire Ornamental Glass Co., 437 Washington, New York
Evansville Mirror & Beveling Co., Evansville, Ind.
Ford Bros., 234 5th av, Chicago, Ill.
Hadley-Dean Glass Co., St. Louis, Mo.
Haskins Glass Co., Rochester, N. Y.
Heckerman, F. W. & Co., Cincinnati, O.
Hires, Turner Glass Co., 230 So. 30th, Phila., Pa.
Holland & New Co., Des Moines, Ia.
Hooker, H. M. Co., 651 W Wash'n, Chicago
Ingerson & Glaser Co., San Francisco, Cal.
Jones Decorative Glass Co., Concord c Hudson av, Brooklyn, N. Y.
Oriel Glass Works, San Francisco, Ca.
Pioneer Glass Works, San Francisco, Cal.
Popper, Leo. & Sons, 7 Sullivan, New York
Potts Bros., 231 Bowery, New York
Queen City Glass Works, 122 Opera pl, Cincinnati, O.
Raphal, H. & Co., Los Angeles, Cal.
Riordan, G. C. & Co., Cincinnati, O.
SCHULER-MUELLER CO., 314 W Superior, Chicago, Ill. (See adv. index, end of book)
Smith, M. A., Newark, N. J.
Standard Glass & Paint Co., Des Moines, Ia.
Stewart-Carey Glass Co., Indianapolis, Ind.
United Glass Works, San Francisco, Cal.
Von Gerichten Art Glass Co., Columbus, O.
Western Mirror Plate Co., 824 Wade, Cincinnati, O.
Western Sand Blast Mfg. Co., 548 W Jackson boul., Chicago, Ill.
Whither-Coburn Co., San Francisco, Cal.

## 4168a—Glass Blanks (For Cutters of Mangin Mirrors)

**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)

## 4169— Glass (Carrara)

Pittsburg Plate Glass Co., Pittsburg, Pa.

## 4170—Glass (Cathedral, Rough Plate & Tile)

Gray & Son, Falls Creek, Pa.
Heidt, John B. (Est. of), 278 Boerum pl, Brooklyn, N. Y.
Highland Glass Co., Washington, Pa.
Marietta Glass Mfg. Co. (Plain & Fancy Figured), Indianapolis, Ind.
Novelty Glass Works, Ottawa, Ill.
Opalescent Glass Works, Kokoma, Ind.
Opalite Tile Co., 331 4th av, Pittsburg, Pa.

## 4171— Glass (Chipped)

Allegan Mirror Plate Co., Allegan, Mich.
Chaudron Co., Baltimore, Md.
Empire Ornamental Glass Co., 437 Washington, New York
Falconer Mirror Co., Falconer, N. Y. New York
Gem Mirrom & Glass Co., Youngsville, Pa.
Jones Decorative Glass Co., Concord c Hudson av, Brooklyn, N. Y.
Pacific Window Glass Co. (For Office Windows, etc.), San Francisco, Cal.
Pittsburg Plate Glass Co., Pittsburg, Pa.
Rawson & Evans, 710 W Washington boul, Chicago, Ill.
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.

## 4171a—Glass (Crystal, Lead & Colored)

**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)

## 4172— Glass Cutting Boards

Lufkin Rule Co., Saginaw, Mich.




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LOOK FOR THESE LABELS WHEN YOUR SPECIFICATIONS CALL FOR THE BEST OBTAINABLE PRODUCT



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## Glass (Druggists')

(See Glassware, Chemical & Druggists')

### 4173— Glass Embossers

California Art Glass Bending & Cutting Wks. San Francisco, Cal.
Dougherty, James, 201 East 16th, New York
Empire Ornamental Glass Co., 437 Washington, New York
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa
Ingerson & Glasier Co., San Francisco, Cal
Jones Decorative Glass Co., Concord & Hudson av, Brooklyn, N. Y.
Louisville Ornamental Glass Co., Louisville, Ky.
Potts Bros., 231 Bowery, New York
Rae, G. & Co., 436 W B'way, New York
Rawson & Evans, 710 W Washington boul, Chicago, Ill.
Redding, Baird & Co., 178 Devonshire, Boston, Mass
Reith, Wm., 134 N 7th, Phila., Pa.
Smith, H. J. & Sons, 234 S 8th, Phila., Pa.
Union Glass Works, 115 Turk, San Francisco Cal.
Van Horne, D. A. & Co., 467 G'wich, & 400 W B'way, New York
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.

### 4174— Glass Enamelers

Dougherty, James, 201 East 16th, New York
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Gernhardt, H. T. & Co., 409 E Fayette, Baltimore, Md.
**Jones Decorative Glass Co., Hudson av & Concord, Brooklyn, N. Y.**
**Louisville Ornamental Glass Co., Louisville, Ky.**
Rawson & Evans, 710 W Washington blvd, Chicago, Ill.
**Von Gerichten Art Glass Co., Columbus, O.**
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.

### 4175— Glass (Figured)

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

### 4176—Glass (Fire Retardant)

**MISSISSIPPI WIRE GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

### 4177—Glass Floor Plate Mfrs.

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

### 4178—Glass for Electrical Use

Whitall, Tatum Co., 410 Race, Phila., Pa.

### 4179—Glass for Engineering Specialties

(See also Gauge Glass Importers)

Bache, Semon, & Co., West & Hubert, New York
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa
Whitall, Tatum Co., 410 Race, Philadelphia, Pa.

### 4180—Glass (Fused Quartz)

Engelhard, Chas. ("Heracus"), 30 Church, New York

## Glass Globes and Shades

(See Globes, Various Kinds; also Shades, Glass & Porcelain, Etc.)

### 4181— Glass (Ground)

Allegan Mirror Plate Co., Allegan, Mich.
Cooper, Chas. & Co. (For Polishing), 194 Worth, New York
Pacific Window Glass Co. (For Office Windows, etc.), San Francisco, Cal.
Rawson & Evans, 710 Washington boul, Chicago, Ill.

### 4182—Glass House Clay Supplies

Bearer Valley Pot Co., Rochester, N. Y.
Findlay Clay Pot Co., Findlay, O.
Gill Clay Pot Co., Muncie, Ind.
La Clede-Christy Clay Products Co., St. Louis, Mo.
Ohio Valley Clay Co., Steubenville, O.
Pittsburg Clay Pot Co., N S, Pittsburg, Pa.
Woods-Lloyd Co., Pittsburg, Pa.

### 4183—Glass House Furnace Builders

American Furnace & Machine Co. (Complete Plants), Pittsburg, Pa.
American Producers' Gas Furnace Co. (Also Glass Factories), Salem, N. J.
Champion & Wyart, Anderson, Ind.
Cox & Sons, 215 Race, Philadelphia, Pa.
Hagan, Geo. J., Pittsburg, Pa.
Smythe, S. R. Co., Pittsburg, Pa.

### 4184— Glass (Leaded)

(See also Glass Stainers)

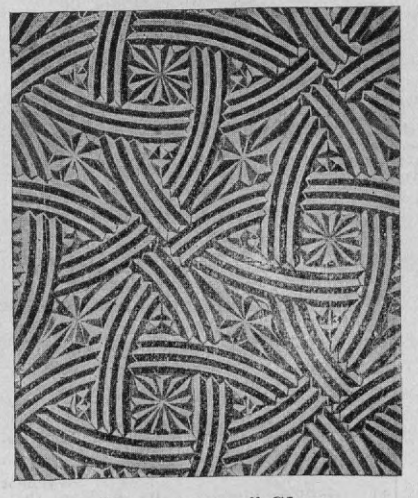
Alberts, J. B., 307 1st, Louisville, Ky.
Baker, Jas. W. 1836 Champa, Denver, Col.
Brand, Gustave A. & Co., 1428 Michigan, av, Chicago, Ill.
Bryant Bros. Art Glass Co., Columbus, O.
Bunce Art Glass Co., Richmond, Va.
California Art Glass Bending & Cutting Wks, San Francisco, Cal.
Chapin, Louis S., Rochester, N. Y.
Clinton Glass Co., 1000 W 21st, Chicago, Ill.
Colonial Art Glass Co., 405 Wells, Chicago, Ill.
Dallas Art Glass Co.., Dallas, Tex.
Dayton Art Glass Works, Dayton, Ohio
Decorative Arts Co., 527 5th av, New York
Denninger, B. & S. Co., Jackson bldg, Denver, Col.
Denver Ornamental Glass Works, Denver, Colo.
Doyle-Stoltzenberg, Co., 51 Barclay, New York
Flanagan & Biedenweg Co., 312 W Illinois, Chicago, Ill.
Ford Bros., Minneapolis, Minn.
Geissler, R., 56 W 8th, New York
Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Gustafson, J. H., Rochester, N. Y.
Hamilton, H. E. & Co., Indianapolis Ind.
Haskins Glass Co., Rochester, N. Y.
Henderson Bros., 701 First av, New York
Highland Glass Co., Washington, Pa.
Holland & New Co., Des Moines, Ia.
Hooker, H. M. Co., 651 W Wash'n, Chicago, Ill.
Hooper-Dombrink Art Glass Co., Oakland, Cal.
Hosey, Patrick, 1649 17th, Denver, Col.
Jackson Glass Works, Jackson, Mich.
Jones, Thos. Decorative Co., Concord c. Hudson av, Brooklyn, N. Y.
Morgan Co. (Art), Oshkosh, Wis.
O'Hearn, P. H., Denver, Colo.
Payne, Geo. H., Paterson, N. J.
Pittsburg Plate Glass Co., Pittsburg, Pa.
Rae, G. & Co., 436 W B'way, New York
Rawson & Evans, 710 W Washington boul., Chicago, Ill.
Redding, Baird & Co., 178 Devonshire, Boston, Mass.
Righter & Kolb, 156 5th av, New York
Riordan, G. C. & Co., 133 E 5th, Cincinnati, Ohio
Rockford Art Glass Works, Rockford, Ill.
Rossbach Art Glass Works, Columbus, O.
**SCHULER-MUELLER CO., 314 W Superior, Chicago, Ill.** (See adv. index, end of book)
Sharpe Bros., Newark, N. J.
Snowdon, George, Utica, N. Y.
Spiers, Richard N., 859 6th av, New York
Temple Art Glass Co., 140 W Michigan, Chicago, Ill.
Texas Art Glass Co., Houston, Tex.
Tiffany Studios, 347 Madison, New York
Toledo Art Glass Co., Toledo, O.
United Glass Works, San Francisco, Cal.
Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., St. Louis, Mo.
Western Sand Blast Mfg. Co., 548 W Jackson, boul, Chicago, Ill.
Wood Glass Co., Syracuse, N. Y.

### 4185—Glass (Maze, for Diffusion of Light)

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

### 4186— Glass Mosaic Work

Antique Mosaic Glass Works, Perth Amboy, N. J.
Armstrong, Maitland & Co., 61 Wash'n sq S, New York

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Church Glass & Decorating Co., 32 E 28th, New York
Colgate Art Glass Co., 8 Gansevort, New York
Crowninshield, Frederick, 42 W 18th, New York
Dayton Art Glass Works, Dayton, O.
Decorative Stained Glass Co., 46 Wash'n sq S, New York
Doring, S. F., Grand Rapids, Mich.
Dougherty, Jas., 201 E 16th, New York
Doyle-Stoltzenberg Co., 51 Barclay, New York
Flagg, L. G. & Co., Sudbury bldg, Boston, Mass.
Flanagan & Biedenweg Co., 312 W Illinois, Chicago, Ill.
Ford Bros., Mineapolis, Minn.
Freeman, Alfred H., 41 University pl, New York
Geissler, R., 56 W 8th, New York
Giannine & Hilgart, 211 E Madison, Chicago, Ill.
Haggerty, D. W. & Co., 70 Washington, Boston, Mass.
Heinigke & Bowen, 24 E 13th, New York
Henderson Bros., 343 W 37th, New York
Kinsella Glass Co., Holland, Mich.
Lamb, J. & R. (Inc.), 25 6th av, New York
Louisville Ornamental Glass Co., Louisville, Ky.
McCully & Miles Co., 76 Wabash av, Chicago, Ill.
Mackay & Co., Los Angeles, Cal.
Macy, R. H. & Co., B'way & 34th, New York
Morgan, Jno. & Sons, 17 Union av, Brooklyn, N. Y., & 32 E 9th, New York
O'Halloran's, Thos. Sons, Newark, N. J.
Payne, Geo. H., Paterson, N. J.
Petgen Glass Co., 5th & Hamilton avs, Pittsburg, Pa.
Puddicombe, Henry, New Haven, Conn.
Rae, G. & Co., 436 W B'way, New York
Redding, Baird & Co., Boston, Mass.
Righter & Kolb, 156 5th av, New York
Riordan, G. C. & Co., Cincinnati, O.
Spiers, Richard N., 859 6th av, New York
Summers & Lamb, c Jay & Johnson, Brooklyn, N. Y.
Tiffany Studios, 347 Madison av, New York
Tyrolese Art Glass Co., 25 W B'way, New York
Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., St. Louis, Mo.

## 4187— Glass ("Nutile")

**MISSISSIPPI GLASS CO. ("Nutile," White),** 115 B'way, New York. (See adv. index & branch offices, end of book)

## 4188— Glass Opal Blanks

Popper, Leo & Sons, 15 Sullivan, New York
**RODEFER GLASS CO. (For Decorators),** Bellaire, O. (See adv. index, end of book)

## 4189— Glass (Opalescent)

Gillinder & Sons (Inc.), 135 Oxford, Philadelphia, Pa.
Heidt, John B. (Est. of), 284 Boerum, Brooklyn, N. Y.
Marietta Glass Mfg. Co., Indianapolis, Ind.
Opalescent Glass Works, Kokomo, Ind.
Peltier Glass Co., Ottawa, Ill.
Popper, Leo & Sons, 15 Sullivan, New York
Rawson & Evans, 710 W Washington boul, Chicago, Ill.
**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)

## 4190— Glass (Photographic)

Bache, Semon & Co., West & Hubert, New York

## 4191—Glass (Plain & Fancy Figured)

**MISSISSIPPI GLASS CO., 115 B'way,** New York (See adv. index & branch offices, end of book)

## 4192—Glass (Plate Prism Mfrs.)

Pressed Prism Plate Glass Co. ("Imperial"), Morgantown, W. Va., & 44 7 23d, New York

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 4193—Glass (Plate & Window, Wholesale & Retail)

### ALABAMA.

BIRMINGHAM—Birmingham Paint & Glass Co.
MOBILE—McDermott, M. A. & J. P.

### ARKANSAS.

LITTLE ROCK—Abeles, Chas. T. & Co.

### CALIFORNIA.

LOS ANGELES—Dixon Art Glass Co.
Fuller, W. P. & Co., 142 N Los Angeles
Raphael, H. Co, 509 S Main
Whittier-Coburn Co.
OAKLAND—Fuller, W. P. & Co. (Inc.)
Cobbledick, L. N. Glass Co.
SACRAMENTO—Fuller, W. P. & Co. (Inc.)
SAN DIEGO—Fuller, W. P. & Co. (Inc.)
SAN FRANCISCO—Buptcher, L. H. Co., 208 1st
California Plate & Window Glass Co., 921 Folsom
Fuller, W. P. & Co. (Inc.), Beal & Mission
Holt, Habernicht & Howlett (Inc.), 169 Fell
Pacific Window Glass Co. 8th & Brennan
Whittier-Coburn Co., Howard & Beale

### COLORADO.

DENVER—Hallack Lumber & Supply Co.
Halleck & Howard Lumber Co.
James, B. L. Mercantile & Mfg Co., 1517 Arapahoe
McPhee & McGinnity Co., 18th c Wazee
Sayre-Newton Lumber Co., 23d & Blake

### CONNECTICUT.

HARTFORD—Andrews & Peck Co., 88 Market
Nims, Whitney Co., 1170 Main
Trant, John C., 347 Asylum
NEW BRITAIN—Rackliffe Bros. Co., 302 Park
NEW HAVEN—Brodner, K., 147 Congress av
Morgan & Humiston Co., 30 Prout
Thompson & Belden, 396 State
TORRINGTON—Hotchkiss Bros. Co.

### DELAWARE.

WILMINGTON—Bradford, James, Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 11th, c G, N.W.
Becker, Chas. & Co., 1239 Wisconsin av
Brown, R. M, 7th & N, N. W.
Muth, Geo. F. & Co., 418 7th, N. W.
Reilly, Hugh, 1334 New York av, N. W.
Smith, Thos. W., 1st c Ind. av, N. W.
Warren, P. S.

### GEORGIA.

ATLANTA—Georgia Paint & Glass Co., 40 Peachtree
Pittsburg Plate Glass Co. (Mfrs.), 31 S Pryor
SAVANNAH—Butler, J. G., 20 Congress

### ILLINOIS.

CHICAGO—Hooker, H. M. Co., 651 W Washington
Innes-Weld Glass Co., 48 Van Buren
Morgan Sash & Door Co. (Plate), Blue Island av & Wood
Pittsburg Plate Glass Co. (Mfrs.), 442 Wabash av.
Rawson & Evans, 710 W Washington
Rice, James H. Co., St. Clair & Illinois
Sprague, Smith Co., 167 Randolph
Standard Glass Co., 2349 La Salle
Tyler & Hippach (Inc.), 366 W Ohio
PEORIA—Wahlfred Mfg. Co., 1101 S Wash'n
QUINCY—Achelpohl, Chas. H., Drug Co.
Garretts, Henry G. & Sons
Heidbreder Bros. & Co.
Oenning Glass & Book Co.
Young Bros.
ROCK ISLAND—Volk, John & Co.
SPRINGFIELD—Power, Chas. A.

### INDIANA.

EVANSVILLE—Evansville Mirror & Beveling Co.
Evansville Paint & Varnish Co.
Johnson, E. C.
FORT WAYNE—Dreier & Bro.
Schlatter, C. C. & Co.
INDIANAPOILS—Aldag Paint & Varnish Co., 426 E Wash'n
Indianapolis Paint & Color Co.
Johnson-Woodbridge Co.
Sargent Paint & Color Co., N. J. & Mass
Stewart, Carey Glass Co. av
LAFAYETTE—Lafayette Lbr. & Mfg. Co.
Taylor, Henry Lbr. Co.
TERRE HAUTE—Adamson & Anderson
Krietenstein, Carl

### IOWA.

CALMAR—Calmar Mfg. Co.
CEDAR RAPIDS—Williams & Hunting Co.
DAVENPORT—Pittsburg Plate Glass Co.
DES MOINES—Buck Bros. Co.
Carr & Adams Co.
DUBUQUE—Carr-Ryder & Adams Co.
LYONS—Disbrow, M. A. & Co.
MUSCATINE—Roach & Musser Sash & Door Co.

### KANSAS.

EMPORIA—Emporia Lbr. & Coal Co.
HUTCHINSON—Hutchinson, L. & P. Mill Co.
TOPEKA—Whiting, A. B. Paint & Glass Co.
WICHITA—Young Bros.

### KENTUCKY.

LOUISVILLE—Hughes, E. L. Co., 215 E Main
Hughes, W. J. & Sons Co., 14th c Maple
Peaslee-Gaulbert Co., Window Gl. Dept., 417 W Main

### LOUISIANA.

NEW ORLEANS—Augustin, Henry
Augustin, M.
Louisiana Glass & Mirror Works

### MAINE.

PORTLAND—King & Dexter Co.

### MARYLAND.

BALTIMORE—Baker Bros. & Co., 108 South st
Baker Glass Co., 118 S Eutaw
Baltimore Paint & Glass Co., 417 Exchange pl
Baltimore Sash & Door Co., Howard & West
Kaufman, E. L. & Co., Liberty & Fayette
Pittsburg Plate Glass Co. (Mfrs.), 221 W Pratt
Seim, Henry & Co., Howard & Fayette
United States Glass Co., 110 Hopkins pl

### MASSACHUSETTS.

BOSTON—Boston Plate & Window Glass Co.,
Kelly Co., 44 Sudbury 287 A
Millen & Williamson Co., 39 Kneeland
Pittsburg Plate Glass Co. (Mfrs.), 41 Sudbury
Standard Plate Glass Co., 26 Sudbury
WORCESTER—Marble J. Russell & Co., 440 Main
Howard, S. I., 3 Harvard

### MICHIGAN.

ALLEGAN—Allegan Mirror Plate Co.
DETROIT—American Paint & Glass Co.
Boydell Bros. White Lead & Color Co.
Central Paint & Glass Co.
Fletcher Hardware Co.
Frohlich, Edw. Glass Co.
Pittsburg Plate Glass Co.
Reid, Wm. Glass Co.
Schroeder Paint & Glass Co.
GRAND RAPIDS—Goble Bros. Glass Co.
HOLLAND—Kinsella Glass Co.
JACKSON—Jackson Glass Works
McLean, Frank & Co.

### MINNESOTA.

DULUTH—St. Germain Bros., 110 1st av W
MINNEAPOLIS—Forman, Ford & Co., 116 Washington av, S
Janney, Semple, Hill & Co., 30 S 2d
Northwestern Glass Co., 120 1st av, N
Pittsburg Plate Glass Co. (Mfrs.), 500 S 3d
ST. PAUL—Mann, F. R. & Son, 437 St. Peter
Noyes Bros. & Cutler, 6th & Sibley
Pittsburg Plate Glass Co., 459 Jackson
Whitehead, Wm. G., 27 E 8th

### MISSOURI.

KANSAS CITY—Campbell Glass & Paint Co.
Faxon & Gallagher Drug Co.
Pittsburg Plate Glass Co. (Mfrs.), 5th & Wyandotte
ST. JOSEPH—Pimbley Paint & Glass Co.
ST. LOUIS—Campbell Glass & Paint Co.
Condie-Neale Glass Co.

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Hadley-Dean Glass Co.
Hafner Mfg. Co.
Obear-Nester Glass Co.
Other, J. C. & Co.
Pittsburg Plate Glass Co
Pockels Drug, Glass & Paint Co.
St. Louis Sash & Door Works, 3440 N B'way
Thatcher & Whittimore Glass Co.
Weigelt Glass & Mirror Co.
Wendling, Jos. Glass Co.
West St. Louis Glass Co.

## MONTANA.

HELENA—Parchen Drug Co.

## NEBRASKA.

LINCOLN—Western Glass & Paint Co.
OMAHA—Midland Paint & Glass Co.
Richardson Drug Co., 902 Jackson

## NEW JERSEY.

HOBOKEN—Bloomberg, Abraham, 405 1st
JERSEY CITY—Max Lewis, 52 Greene
NEWARK—Bass, Samuel M, 26 Bellevue av
Hockenjos, J. J. Co., 829 Broad
Market Plate & Window Glass Co.
Newark Glass Co., 271 Market
Smith, J. P., 36 Seymour av
Sutphen & Myer, 36 Seymour av
Van Horne, A. & Co., 311 Mt. Pleasant av
PATERSON—Hamilton Lumber & Mfg. Co.
Kier, A. H.

## NEW YORK.

ALBANY—Bradstreet, Wm. H., 165 S Pearl
Cameron, G. V. & F. W., 284 Central av
Kurtz, Jacob, 334 Central av
Wing, Robt. B. & Son, 62 Quay
BINGHAMTON—Binghamton Glass Co.
Lawrence Paint Co.
Sanders, H. H.
BROOKLYN—(See N. Y. City, Borough of Brooklyn)
BUFFALO—Becker Glass & Paint Co., 372 Pear
Buffalo Glass Co., 188 Main
Fritzsche & Kleason, 42 Eagle
National Glass Co., 523 Main
Post's, John C. Sons, 52 S Division
Wright, A. B. & Co., 230 Washington
ELMIRA—Booth, Irving D.
ITHACA—Treman, King & Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Donnelly, J. R. Co., 54 Classon av
Friedlander, Jos. B. B. Co., 233 Washington
Lazansky, Emil, 324 Myrtle av
Moll, M. N., 317 Atlantic av
Pittsburg Plate Glass Co., 3d av

### Boroughs of Manhattan & Bronx.

NEW YORK—Bache, Semon & Co., West & Hubert
Bartelstone Bros., 4179 3d av
Bartelstone, Harris & Son, 750 B'way
Crane Glass & Mfg. Co., 341 Hudson
Dunham, Thos. C., 68 Murray
Elias, Joseph, 541 W 22d
Edmonds, Thos. C. & Co., 1826 Park av
Gilbert & Sturrock, 361 W 42d
Goldman, Philip, 98 Division
Goldstein, Louis, 17 Elizabeth
Griffen, Benjamin, 40 Vestry
Harris, L. & Son, 106 Liberty
Holbrook Bros., 89 Beekman
Hutkoff, Nathan & Co., 38 Hubert
Kahn, Jacques, 533 W 37th
Lewis, Isaac & Sons, 1909 Park av
May, Herman G., 15 Whitehall
Morris, Theo. W. & Co., 440 Canal
Pittsburg Plate Glass Co. (Mfrs.), Hudson & Vandam
Popper, Leo & Sons, 143 Franklin
Rubin, Jacob, 11 James
Schaefer & Cavanagh Co., 461 W B'way
Schottland, Benjamin, 105 Wsth
Schuldiner, David, 316 E 65th
Sutphen & Myer, 11 Desbrosses
Thorpe, Jno., 260 W B'way
Vanhorne, D. A. & Co., 467 G'wich
Von Buhren, George, 11 Baxter
Weber, C. S. & Co., 10 Desbrosses
Wissmach, Paul, 9 Jones

**(End of New York City)**

ROCHESTER—Barnard, Porter & Viall, 15 N Water
Clark, Paint, Oil & Glass Co., 131 State
Rugg, C. H., Co., N Union c N. Y. C. R.R.
Versprella, Harry, 52 Division
SYRACUSE—Brown, Clinton C., 205 E Jeff'n
Burhans & Black Co., 136 N Salina
Wood Glass Co.
TROY—Dachy, Chas. H. Co., 279 River
Thompson, John L. & Sons Co., 163 River
UTICA—Kellogg, Chas. C., & Sons Co.

## OHIO.

CINCINNATI—Barron, Bayle Co., 230 E 5th
Cincinnati Plate Glass Co., 108 W 2d
Foy Paint & Glass Co., 633 Main
Glenny, Wm. Glass Co., 10 W Commerce
Kolbe, John Co., 229 W 5th
Meyer, E. H., & Co., 904 Walnut
Neuer, H. Glass Co., 520 Reading rd
Peale, W. C. & Bro., 904 Central av
Pittsburg Plate Glass Co., B'way & Court
Washburn, Ira D. Co., 1008 Central av
CLEVELAND—Cleveland Window Glass & Door Co., 32 Champlain av, S W
Crane Glass & Mfg. Co., 206 St. Clair av, N E
Diamond Glass Co., 1422 W 25th, N W
Ohio Sash & Door Co., 211 Prospect av, N W
Pittsburg Plate Glass Co. (Mfrs.), 1430 W 3d, N W
Saunders, J. A. Co. 11836 Detroit av, Lakewood
Teachout, A. Co. 321 Prospect av, N W
COLUMBUS—Columbus Plate & Window Glass Co.
Coulsin, J. W. & Co. Co., 69 E Long
Von Gerichten Art Glass Co.
DAYTON—Irvin, Jewell & Vinson Co.
West Side Lumber Co.
HILLSBORO—Enterprise Planing Mill Co. (Wholesale, etc.)
TOLEDO—Ohio Glass Co., Albion & Baxter
Toledo Plate & Window Glass Co., Elm, Utica & George
YOUNGSTOWN—Youngstown Glass & Paint Co.

## OREGON.

PORTLAND—Beach, F. E. & Co., 135 1st
Central Door & Lumber Co.
Fisher, Thorsen & Co., 162 Front
Fuller, W. P. & Co. (Inc.)
Illinois-Pacific Glass Co., 109 2d
Rasmussen & Co., 229 Taylor

## PENNSYLVANIA.

ALLEGHENY — Conroy, Prugh & Co., 1430
Daum & Helm, 623 Ohio, E Western av
ERIE—Erie Window Glass Co.
PHILADELPHIA—Bennett, G. S. & Co., 114
Bennett, H. L., Phila. Bourse N 9th
FRENCH, SAML. H. & CO., 4th & Callowhill. (See adv. index, end of book)
Hires Turner Glass Co., 230 S 30th
Knorr, Edwin B., & Bro., 1817 Orthodox, Fkd
Lucas, John & Co., 322 Race
Nice, Eugene E., 272 S 2d
Pittsburg Plate Glass Co., 11 & Arch
Shoemaker, Benj. H., 205 N 4th
Star Glass Co., 226 N 4th
Steele Glass Co., 622 Locust
Thomas Glass & Mirror Works, 1025 Race
United States Glass Co., Deuckla bldg
PITTSBURG—Bindley Hardware Co., 429 7th av
Connolly, Thos. A., 18 Parkway E, N S
Cunningham, D. O. Glass Co.
Kim, Geo. A. & Co., 320 1st av
Pennsylvania Door & Sash Co., 900 2d av
Pittsburg Plate Glass Co.
RIDGWAY—Hyde-Murphy Co.
SCRANTON—Washburn, Williams & Co.
WILKES-BARRE—Phelps, Lewis & Bennett Co.

## RHODE ISLAND.

PAWTUCKET—Tingley, Frank E.
PROVIDENCE—Johnson, Oliver & Co., 5 Exchange
Perkins Bros. Co., 970 Westminster
Providence Sash & Blind Co., 301 Broad
Rosenblatt, Henry, 91 Washington
Starkweather & Williams Co., 47 Exchange pl

## SOUTH CAROLINA.

CHARLESTON—Bird, W. M. & Co.

## TENNESSEE.

MEMPHIS—Binswanger & Co., 4 W Calhoun
Cole Mfg. Co.
Drew, Geo. I., Glass Co., 153 Union av
NASHVILLE—Beasley & Sons, 147 N 3d
Riddle Co., 160 N 2d
Warren Bros. Co., 200 N 3d av

## TEXAS.

DALLAS—Texas Glass & Paint Co.
EL PASO—Tuttle Paint & Glass Co.
GALVESTON—Baulard, V. L. & Co.
Smith, J. F. & Bro.
HOUSTON—Standard Paint & Wall Co.

## UTAH.

OGDEN—Ogden Paint, Oil & Glass Co.
SALT LAKE CITY—Culmer Paint & Glass Co.
Ebert, Geo. W. & Co.

## VIRGINIA.

RICHMOND—Abrams Paint & Glass Co. (Inc.)
Binswanger & Co. (Inc.)

## WASHINGTON.

SEATTLE—Coast Paint Co., 91 Spring
Fuller, W. P. & Co., 117 Jackson
Nelle & Engelbrecht Co., 82 W Columbia
SPOKANE—Fuller, W. P. & Co. (Inc.)
TACOMA—Fuller, W. P. & Co. (Inc.)
Todd, J. L. Lumber Co.
Wheeler-Osgood Co.

## WEST VIRGINIA.

WHEELING—Chapman, W. H. & Sons

## WISCONSIN.

APPLETON—Miller Lumber Co.
LA CROSSE—Segelcke & Kohlhaus Mfg. Co.
Segelke & Kohlhaus Mfg. Co.
MILWAUKEE—Curtis & Yale Co., 204 Grand av
Dorestan, Enno & Son Co., 297 3d
Patek Bros., 319 E Water
Patton, Jas. E. Co., 494 Market
Yahr & Lange Drug Co., 486 Market
Zummach, Wm. F., 281 W Water
OSHKOSH—Morgan Co.
RACINE—Driver, Thos. & Sons Mfg. Co.
Weber-Bahnemann Co.

## 4194—Glass (Polished Plate, Mfrs.)

Allegheny Plate Glass Co., Glassmere, Pa.
American Plate Glass Co., Kane, Pa.
Columbia Plate Glass Co., Blairsville, Pa.
Federal Plate Glass Co., Ottawa, Ill.
Ford, Edw. Plate Glass Co., Rossford, O.
Heidenkamp Mirror Co., Springdale, Pa.
Kittanning Plate Glass Co., Kittanning, Pa.
Penn-American Plate Glass Co., Pittsburg, Pa., & Alexandria, Ind.
Pittsburg Plate Glass Co., Pittsburg, Pa.
Saginaw Plate Glass Co., Saginaw, Mich.
St. Louis Plate Glass Co., Valley Park, Mo.
Standard Plate Glass Co., Butler, Pa.

## 4195—Glass (Polished Wire)

**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York, (See adv. index & branch offices, end of book)

## 4196—Glass (Pressed Light, Mfrs.)

Cambridge Glass Co., Cambridge, O.
Canton Glass Co., Marion, Ind.
National Glass Co., 806 Penn. av, Pittsburg, Pa.
**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)

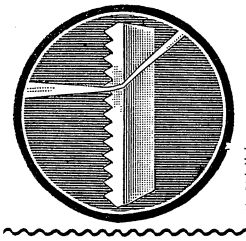
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### 4197—Glass (Prismatic Mfrs.)

**AMERICAN BAR LOCK CO.** ("Bar Lock" 3 Point Prism Lights), 26th & Penna. av, Phila., Pa. (See adv. index & branch offices, end of book)

**AMERICAN LUXFER PRISM CO.**, General Office & Factory, Heyworth bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**AMERICAN THREE-WAY PRISM CO.** (Three-Way Prisms), 3633 Ashland av, Chicago, Ill. (See adv. index & branch offices, end of book)

Daylight Glass Mfg. Co., 807 Chestnut, Philadelphia, Pa.

Maltby, Geo. K. & Co., Flatiron bldg, New York

Marietta Glass Mfg. Co., Indianapolis, Ind.

**NEW YORK PRISM CO., 497 W B'way,** New York. (See adv. index, end of book)

Pressed Prism Plate Glass Co. ("Imperial" Plate Prism Glass), Morgantown, W. Va., & 44 23d, New York

Redding, Baird & Co. ("Baird's" Hand Made Silver Glass), 178 Devonshire, Boston, Mass.

**RODEFER GLASS CO. (For Architectural Iron Works),** Bellaire, O. (See adv. index, end of book)

Smith, L. E. Glass Co., Mount Pleasant, Pa.

Solar Prism Co., 7003 Quincy, S E, Cleveland, Ohio

Universal Iron Foundry ("Schwickart's Sun Burnt"), 283 Scholes, Brooklyn, N. Y.

### 4197a— Glass (Resilvering)

Stewart-Carey Glass Co., Indianapolis, Ind.

### 4198—Glass (Rough, Ribbed & Figured Rolled Plate Mfrs.)

Beatty, Brady & Co., Washington, Pa.

Dannenhoffer, John Glass Works, 389 Harman, Brooklyn, N. Y.

Marietta Glass Mfg. Co., Indianapolis, Ind.

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

Opalescent Glass Works, Kokoma, Ind.

Peltier Glass Co., Ottawa, Ill.

### 4199—Glass (Rough & Ribbed, for Skylights)

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

### 4200— Glass (Sand Blast)

Empire Ornamental Glass Co., 437 Washington, New York

Falconer Mirror Co., Falconer, N. Y. New York

Jones Decorative Glass Co., Hudson av c Concord, Brooklyn, N. Y.

Rawson & Evans, 710 W Washington boul, Chicago, Ill.

Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.

### 4202—Glass (Skylight, Mfrs.)

Cambridge Glass Co., Cambridge, O.

Canton Glass Co., Marion, Ind.

Marietta Glass Mfg. Co., Indianapolis, Ind.

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

Penna. Wire Glass Co., Penna. bldg, Phila., Pa.

**RODEFER GLASS CO. (For Architectural Iron Work),** Bellaire, O. (See adv. index, end of book)

Smith, L. E. Glass Co., Mount Pleasant, Pa.

Western Glass Co., Streator, Ill.

### 4202a—Glass Specialties (Blown & Pressed)

**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)

### 4203— Glass Stainers

(See also Memorial Windows)

#### CALIFORNIA.

LOS ANGELES—Mackay Co.

OAKLAND—Hooper-Dombrick Art Glass Co.
Trobock & Delacour, 10th & Webster

SAN FRANCISCO—Cal. Art Glass Bending & Cutting Works, 944 Mission
Ingerson & Glaser Co., 245 Oak
Munich Art Glass Co., 510 Turk
San Francisco Art Glass Works, 944 Mission
United Glass Works, 115 Turk

#### COLORADO.

DENVER—Baker, Jas. W., 1823 Champa
Brandt, Mrs. Emilie

#### CONNECTICUT.

BRIDGEPORT—Bridgeport Art Glass Co.

HARTFORD—Hartford Stained Glass Works

NEW HAVEN—Beckman, Otto F., & Co., 78 State
Pudicombe, Henry

#### GEORGIA.

ATLANTA—Arlington Art Glass Works.
Atlanta Art Glass Co., 84 Marietta

#### ILLINOIS.

CHICAGO—Clinton Glass Co., 1000 W 21st
Colonial Art Glass Co., Wells & Kinzie
Eberhardt, Hugo & Co., 2411 W 12th
Flanagan & Biedenweg Co., 312 W Illinois
Giannini & Hilgart, 211 Madison
Harder, Wm. C., 2842 Union av
Heidelmeier Art Glass Works, 4613 N Clark
Helmerich, W. H. & Co., 719 Fulton
Hooker, H. M. Co., 651 W Wash'n
Linden Glass Co., 1216 Michigan av
Munich Studio, 211 Madison
Neuhauser, David L. Co., 242 S Water
Rawson & Evans Co., 710 W Wash'n boul
**SCHULER-MUELLER CO., 314 W** Superior. (See adv. index, end of book)
Schuler Art Glass Co., 541 W Jackson blvd
Temple Art Glass Co., 140 W Michigan
Western Sand Blast Mfg. Co., 548 W Jackson boul

OTTAWA—Peltier Glass Co.

ROCKFORD—Rockford Art Glass Works


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**BELLAIRE, OHIO**


## INDIANA.

INDIANAPOLIS—Schurmann, E., 7 E Market
Stewart-Carey Glass Co., Indianapolis, Ind.

## IOWA.

DAVENPORT—Decorative Art Glass Co.
Kaltwasser, E. C., Art Glass Co.
DES MOINES—Allward, Bowman Glass Co.

## LOUISIANA.

NEW ORLEANS—Louisiana Glass & Mirror Works, 309 Lafayette

## MAINE.

PORTLAND—Farley, C. H., & Co.

## MARYLAND.

BALTIMORE—Gernhardt, H. T. & Co., 411 E Fayette
Gettier Studios, 855 N Howard
Southern Stained Glass Co., 620 N. Eutaw

## MASSACHUSETTS.

BOSTON—Bartsch, Valentine, La Grange st. (W. R.)
Central Glass Works, 41 Washington
Colonial Stained Glass Works, 161 High
Cushing & Anderson, 24 Warren, Rox.
Cutter, A. B. Co., 36 Columbus av.
Flagg, L. G. & Co., Sudbury Bldg.
Haggerty, D. W. & Co., 70 Washington
Larrabee, R. B. Co., 27 Sudbury
MacDonald Stained Glass Works, 400 North-
Murphy, Thomas J., 475 Tremont ampton
Phipps, Horace J. & Co., 65 Bedford
Redding, Baird & Co., 178 Devonshire
Spence, Bell & Co., 90 Canal
Union Stained Glass Co., 708 Columbia rd.
Vaughan & O'Neil, 82 Sudbury
Wise, G. W. Co., 65 Franklin
WORCESTER—Worcester Stained Glass Works, (David Welch, Prop.)

## MICHIGAN.

DETROIT—Art Glass Co., 80 Jefferson av
Detroit Stained Glass Works, 1st & Orchard
Lee, Edw. F. Glass Co., 59 Fort, E
Michigan Ornamental Glass Works, 21st & Standish
U. S. Ornamental Glass Co., 935 Beaufait
GRAND RAPIDS—Doring, S. F.
HOLLAND—Kinsella Glass Co.
MENOMINEE—Menominee Stained Glass Co.

## MINNESOTA.

DULUTH—St. Germain Bros.
MINNEAPOLIS—Ford Bros., 209 N Washington
ST. PAUL—Paussek, I. V. & Co., 817 E 7th

## MISSOURI.

KANSAS CITY — Kansas City Stained Glass Works
ST. JOSEPH—St. Joseph Art Glass Co.
ST. LOUIS—Century Ornamental Glass Co., 5039 Delmar av
Davis, W. W., 3922 Olive
Frei, Emil, Art Glass Co., 3934 S Grand av
Jacoby Art Glass Co., 2700 St. Vincent av
Kerwin, E. F. Ornamental Glass Co., 921 N 6th
Koninski Art Co., 1724 Washington av
W. G. Art Glass Co., 4133 Olive
Weigelt Glass & Mirror Co., 615 N 6th
Wendling, Jos. Glass Co., 207 S B'way

## NEW JERSEY.

IRVINGTON—Denman, Julius R.
NEWARK—Belcher, Chas., 21 Belleville av
Metzger, Richd, 54 Duryea
O'Halloran's, Thos. Sons, 127 Van Buren
Sharpe Bros., 951 Broad
ORANGE—Stevens, Jos.
PATERSON—Payne, George H., 40 Park av
WEST HOBOKEN—Heinnemann, F. & Co.

## NEW YORK.

ALBANY—Blocksidge, Jas., 2 High
Chapman, Wm. B., 222 Hudson av
BINGHAMTON—Rowland, Chas. P.
BROOKLYN—(See New York City, Borough of Brooklyn, N. Y.)
BUFFALO—Booth's Art Stained Glass Works, 67 Franklin
Briscall, Wm. Co., 58 Genesee
Frohe Art & Stained Glass Establishment, 220 B'way
Terhaar & Mundle, 359 Jefferson

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Arnold & Locke, 250 Fulton
Hausleiter, Julius & Co., 173 Atlantic av
Jones Decorative Glass Co., 231 Hudson av
Keller, John, 1050 B'way
Lamb, Maskell T., 44 Bergen
Molic, Frank, 109 Court
Morgan, Jno. & Sons, 17 Union av
Muelbe, L. F., Ave F & E 28th
Stuetzle, Chas., 106 S 8th
Summers, Chas., 239 Nassau
Tuckhorn, Francis, 366 Atlantic av

### Boroughs of Manhattan & Bronx.

NEW YORK—Armstrong, Maitland & Co., 61 Washington sq. S
Castle, Montague, London Co., 247 W 46th
Church Glass & Decorating Co., 32 E 28th
Colgate Art Glass Co., 8 Gansevoort
Cornell, Chas. J., 345 W B'way
Cornell, J. C. Co., 2234 Eighth av
Decorative Stained Glass Co., 46 Wash. sq. S
Dodge, Robert L., 333 4th av
Dougherty, James, 201 East 16th
Durham, George, 155 E 42d
Geissler, Rudolph, 56 W 8th
GORHAM MFG. CO., 5th av & 36th; Works: Providence, R. I. (See adv. index, end of book)
Grimm, A. C., 155 E 23d
Hamilton, Geo., 424 W B'way
Heaton, Butler & Bayne (Ltd.), 437 5th av
Heinigke & Bowen, 26 E 13th
Henderson Bros., 701 First av
Herrlein & Henrich Co., 99 Hudson
Howard Glass Works, 57 Dey
Janes, Walter, 138 W 42d
Klaus, Henry, 306 E 40th
Koechig, Julius C., 717 6th av
Lamb, J. & R. (Inc.), 25 6th av
Maginn, Charles, 17 E 14th
Malz, Herman, 19 E 14th
Mayer & Co., 47 Barclay
Morgan, John & Sons, 61 E 9th
Parkhurst Bros., 156 5th av
Popper, Leo & Sons, 143 Franklin
Quin, Jno. F., 2192 B'way
Rae, G. & Co., 173 Prince
Righter & Kolb, 156 5th av
Sellers, Benj., 80 Bible House
Spiers, Richard N., 859 6th av
Tiffany Studios, 347 Madison av
Tyrolese Art Glass Co., 25 W B'way

**(End of New York City)**

ROCHESTER—Chapin, Louis S., 38 Exchange
Gustafson, J. H., 80 Main, W
Haskins Art & Glass Co., 231 James
Pike Stained Glass Co., 25 Clinton av N
YONKERS—De Angelis, Fredk, 38 Nepperhan

## OHIO.

CINCINNATI—Anchor Art Glass Co., 421 Elm
Erkins Art Glass Co.
Riordan, G. C. & Co., 133 E 5th
Ruckel Art Glass Co., 535 Sycamore
CLEVELAND—Korfhage, John H., 2187 E 2d
Krause, E. F. Art Glass & Beveling Works, 1555 Columbus rd, N W
Lewis, H. W., 1042 St. Clair av, N E
Ursem Bros., 226 Superior av, N W
Whipple Art Glass Co., 329 Prospect av, N W
Woodman, Geo. F., 5513 Kinsman rd, S E
COLUMBUS—American Art Glass Co.
Bryant Bros. Art Glass Co.
Helf Art Glass Co.
Rossbach Art Glass Works
Von Gerichten Art Glass Co.
DAYTON—Dayton Art Glass Works
Decorative Art Glass Co.
Rossbach Art Glass Works, 105 W Broad
TOLEDO—Toledo Art Glass Co., 416 S St.
YOUNGSTOWN—Dolde Art Glass Works Clair
Ohio Art Glass Co.


**ART GLASS**

**Schuler-Mueller Co.**
(Est. 1891. Incorp. 1902.)
**314 TO 324 W. SUPERIOR STREET.**
**CHICAGO, ILL.**

FOR
**CHURCHES, PUBLIC BUILDINGS, RESIDENCES.**
ART GLASS LAMP SHADES AND DOMES.


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### OREGON.

PORTLAND—Portland Art Glass Works, 285½ Povey Bros. Glass Co., 100 N 5th Taylor

### PENNSYLVANIA.

ERIE—Messenger, Benj.
**PHILADELPHIA—Artistic Stained Glass Wks.,**
Callanan, Martin, 421 N 19th 222 N 4th
Century Stained Glass Works (Ltd.), 212 S 11th
**Columbia Stained Glass Works, 25 S 2d**
**Decorative Glass Co., 3248 Chestnut**
Dukes Glass Works, 2129 Market
**FRENCH, S. H. & CO., 4th & Callowhill. (See adv. index, end of book)**
**Godwin, Alfred, 1343 Arch**
**Groves, R. S., 617 S Broad**
**Hawkins, Alfred W., & Son, 1823 S 19th**
Marcus Bros., 866 N 10th
**Oesterle Stained Glass Works, 134 N 10th**
**Quaker City Stained Glass Works, 1407 Vine**
Reith, Wm., 134 N 7th
**Schmitt, Chas. N., 4th & Callowhill**
**Shilling, Albert, 934 N 13th**
**Smith, H. J. & Sons, 236 S 8th**
**Warnke, Albert J. F., 716 Dauphin**
Weeder, F. Ellsworth, 34 South 16th
West Phila. Art Glass Works, 4219 Market
PITTSBURG—Castor, Thos. H., 214 Shetland
Connolly, Thos. A. & Co., 18 E Parkway
Hunt, Henry, 184 Steuben
Marshall, S. S. Art Glass Co., 109 E Lacock
Petgen, Francis H., 6711 Hamilton av
Pittsburg Art Glass Co., 1026 Fifth
Rudy Bros. Co., S Highland & Center av
Schmidt Stained Glass Co., 125 Beltzhoover
Twin City Art Glass Works, 14 E Lacock
Willett Stained Glass Co.
READING—Kase, J. M. & Co.

### RHODE ISLAND.

PROVIDENCE—Decorative Window Co., 43 N Main
Rhode Island Glass Co., 131 Washington

### TENNESSEE.

HOUSTON—Texas Art Glass Co.
MEMPHIS—Kemnitz, Emil, 280 S 3d

### VIRGINIA.

NORFOLK—Virginia Art Glass Corp.
RICHMOND—Bunce Art Glass Co.

### WASHINGTON.

SEATTLE—Puget Sound Art Glass Co., 2225 9th av
Suess Art Glass Co., 2421 Western av
TACOMA—Rieflin, Wm.

### WEST VIRGINIA.

WHEELING—Wheeling Glass Letter & Novelty Co.

### WISCONSIN.

LA CROSSE—Art Glass Mfg. Co.
MILWAUKEE—Enterprise Art Glass Wks, Enterprise bldg
Gavin Mirror & Art Glass Works, 521 Jackson
Hachman Art Glass Co., 168 Reed
Milwaukee Mirror Art & Glass Works,
Van Horn, Dan'l, 537 17th 203 B'way

## 4204—Glass Stainers' Supplies

Deissler, P. & Bro., 249 S 6th, Phila., Pa.

## 4205—Glass (Structural Sanitary)

Marietta Glass Mfg. Co., Indianapolis, Ind.
Opalite Tile Co. ("Cosmos" "Opalite"), Monaca, Pa.
Penn American Plate Glass Co. ("Novus"), Pittsburg, Pa.

## 4206—Glass (Vault & Sidewalk, Mfrs.)

Cambridge Glass Co., Cambridge, O.
Canton Glass Co., Marion, O.
Chicago Flint & Glass Lime Co., 62 Lake, Chicago, Ill.
Co-Operative Flint Glass Co., Beaver Falls, Pa.
Imperial Glass Co., Bellaire, O.
Orange County Flint Glass Works (Brox & Ryall, Props.), Port Jervis, N. Y.
**RODEFER GLASS CO. (Tiling for** Architectural Iron Work), Belliare, O. (See adv. index, end of book)
Smith, L. E. Glass Co., Mount Pleasant, Pa.
Sneath Glass Co., Hartford City, Ind.

## 4207— Glass Washboards

**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)

## 4208—Glass (Window, Mfrs.)

(Companies marked with a (*) are controlled by the American Window Glass Co.)

*American Window Glass Co., Pittsburg, Pa.
Banner Window Glass Co., South Charleston,
*Anderson Glass Co., Anderson, Ind. W. Va.
Baker Bros. Glass Co., Caney, Kan.
Banner Window Glass Co., Sheridan, Ind.
Baur Window Glass Co., Eaton, Ind.
Brownsville Co-Operative Window Glass Co., Brownsville, Pa.
Buckeye Window Glass Co., Columbus, O.
Caney Glass Co., Caney, Kan.
Chanute Window Glass Co., Chanute, Kan.
Cheyenne Window Glass Co., Caney, Kan.
Christiana Window Glass Co., Wilmington, Del.
Cole Glass Co., Lancaster, O.
Columbus Plate & Window Glass Co., Columbus, O., & Lancaster, O.
Crown Glass Co., Matthews, Ind.
Cumberland Glass Mfg. Co., Bridgeton, N. J.
Cunningham, D. O. Glass Co., Pittsburg, Pa.
Dunkirk Window Glass o., South Charleston, W. Va.
Eastern Ohio Glass Co., Barnesville, O.
Eldred Window Glass Co., Punxsutawney, Pa.
*Elmira Glass Cutting Co., Elmira, N. Y.
*Hazlehurst Window Glass Co., Hazlehurst, Pa.
Ithaca Glass Mfg. Co., Spring City, Pa.
Johnston Glass Co., Hartford City, Ind.
Kane Window Glass Co., Kane, Pa.
King, Wm. & Bro., 113 W Fayette, Baltimore, Md.
Marilla Co-Operative Glass Co., Montgomery, W. Va.
Monongah Glass Co., Fairmount, W. Va.
More-Jones Glass Co. (Inc.), Bridgeton, N. J.
New Bethlehem Window Glass Co., New Bethlehem, Pa.
Ohio Falls Co-Operative Window Glass Co., New Albany, Ind.
Pacific Window Glass Co., San Francisca, Cal.
Pennsylvania Window Glass Co., Kane, Pa.
Pittsburg Window Glass Co., Washington, Pa.
Progress Window Glass Co., Matthews, Ind.
Saginaw Plate Glass Co., Saginaw, Mich.
Smethport Glass Co., Smethport, Pa.
Standard Window Glass Co., Kane, Pa.
Van Cleve Glass Co., Wilcox, Pa.
Vincennes Window Glass Co., Vincennes, Ind.
Winslow Glass Co., Matthews, Ind.

## 4209— Glass (Wire)

Highland Glass Co., Washington, Pa.
Marietta Glass Mfg. Co., Indianapolis, Ind.
**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)
Penna. Wire Glass Co., Penna bldg, Phila., Pa.

## 4210—Glass (Wire, Approved Fire Stop)

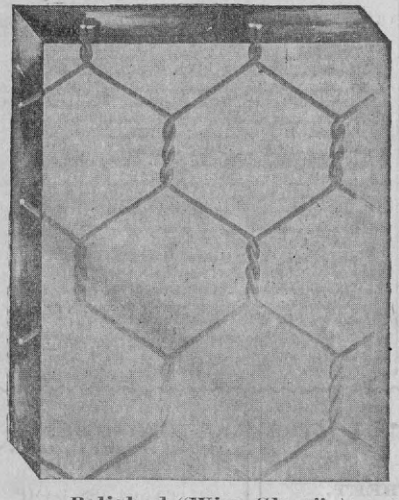
**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)

## 4211—Glass (Wire, for Fire-Proof Windows)

**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)

## 4212—Glass (Wire, for Show Cases)

**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)

Polished "Wire Glass"

# "WIRE GLASS"

When set in proper metal sash and frame furnishes one of best forms of fire

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# Mississippi Wire Glass Co.

115 Broadway,

72 Madison St., CHICAGO. NEW YORK. 4100 N. Main St., ST. LOUIS.


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## 4213—Glass (Wire, Skylight)

**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)

## 4214—Glasses (Cylindrical)

**ROGERS, H. A. CO., 19 John, New** York. (See adv. index, end of book)

## 4215— Glasses (Oil Cup)

German-American Glass Co., Water & Dickinson, Phila., Pa.

## 4216— Glasses (Port Hole)

Bache, Semon & Co., West & Hubert, **New York**

## 4217— Glasses (Reading)

**Bausch & Lomb Optical Co., Rochester, N. Y.**

## 4218— Glasses (Reducing)

Bausch & Lomb Optical Co., Rochester, N. Y.

## 4219—Glassware (Chemical & Druggists')

**Canton Glass Co., Marion, Ind.**
Carbondale Instrument Co., Carbondale, Pa.
**Co-Operative Flint Glass Co. (Druggists'), Beaver Falls, Pa.**
Eagle Glass & Mfg. Co., Wellsburg, W. Va.
**Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.**
**Hazel Atlas Glass Co. (Druggists'), Wheeling,** Swindell Bros., Baltimore, Md. W. Va.
**Wagner Glass Works (Chemical Glassware & Apparatus), 697 E 132nd, New York**
**Whitall Tatum Co., 410 Race, Phila., Pa.**

## 4220—Glassware (Electrical)

**Freeman, Philip & Bros., 92 Bowery, New York**
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## Glassware (Packers')

**(See Jars, Fruit)**

## 4221— Glassware (Pressed)

**Hazel Atlas Glass Co., Wheeling, W. Va.**

## 4222—Glassware (Stationers')

**Tatum, Sam'l C. Co., Cincinnati, O.**

## 4223— Globes (Arc Lamp)

Cary, Edw. E. Co. ("Cohesive," Importers), 59 Park pl, New York
Corning Glass Works, Corning, N. Y.
Fostoria Glass Specialty Co. ("Nubiac" Inner), Fostoria, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gill & Co., York & Thompson, Phila., Pa.
Gleason-Tiebout Glass Co., 95 Commercial, Brooklyn, N. Y.
Haskins Glass Co., Martins Ferry, O.
Libbey Glass Co., Toledo, O.
Lippincott Glass Co. (Inner Arc, etc.), Alexandria, Ind.
Macbeth-Evans Glass Co. ("Thermo," "Alba"), Pittsburg, Pa.
Murray, Jas. J. & Co. (Outer Globes Only), Trenton av & Willard, Phila., Pa.
Pairpoint Corporation, New Bedford, Mass.
Phoenix Glass Co., 15 Murray, New York, & Pittsburg, Pa.
Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

## 4223a—Globes for Blue Printing Machines (Arc Lamp, Heat Proof)

**PEASE, C. F. CO., 167 Adams, Chicago,** Ill. (See adv. index, end of book)

## 4224—Globes for Incandescent Light

Consolidated Lamp & Glass Co., 66 W B'way, New York
Fostoria Glass Specialty Co., Fostoria, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gill & Co. (Inc.), c York & Thompson, Phila., Pa.
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Gleason-Tiebout Glass Co., 99 Commercial, Brooklyn, N. Y.
Handel Co. (Decorated, etc.), Meriden, Conn.
Haskins Glass Co., Martins Ferry, O.
Holophane Glass Co., Newark, O.
Lippincott Glass Co. (Bulbs & Tubing), Alexandria, Ind.
Macbeth-Evans Glass Co. ("Themo," "Alba"), Pittsburg, Pa.
Murray, Jas. J. & Co., Trenton av & Willard, Phila., Pa.
Pairpoint Corporation, New Bedford, Mass.
Phoenix Glass Co. (Electric & Gas), 13 Murray, New York, & Pittsburg, Pa.
Williamsburg Flint Glass Co., 260 Boerum, **Brooklyn, N. Y.**

## 4225—Globes (Fresnal, for Steamships)

**Sneath Glass Co. (All Colors), Hartford City, Ind.**

## Globes (Inner Arc)

(See Globes, Arc Lamp)

## 4226— Globes (Lantern)

American Glass Specialty Co. (Ruby), Monaca, Pa.
**Corning Glass Works, Corning, N. Y.**
**Gill Bros. Co., Steubenville, O.**
**Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.**
German-American Glass Co., Water & Dickinson, Phila., Pa.
Indiana Glass Co., Dunkirk, Ind.
Jenkins, D. C. Glass Co., Kokomo, Ind.
**Libbey Glass Co., Toledo, O.**
McKee Glass Co., Jeanette, Pa.
**Macbeth-Evans Glass Co., Pittsburg, Pa.**
**Murray, Jas. J. & Co., Trenton av, & Willard, Phila., Pa.**
**RODEFER GLASS CO. (For Lantern** Mfrs.), Bellaire, O. (See adv. index, end of book)
Sneath Glass Co. (All Colors), Hartford City, Ind.
U. S. Glass Co., Pittsburg, Pa.
Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

## 4227—Globes & Shades (Prismatic)

Holophane Glass Co., Newark, O.

## 4229—Gloves (Baseball, Boxing & Fencing)

Chicago Sporting Goods Mfg. Co., 1115 Fulton, Chicago, Ill.
Draper & Maynard Co., Plymouth, N. H.
Goldsmith's, P. Sons, Cincinnati, O.
Peach, J. A. Co., Gloversville, N. Y.
Reach, A. J. Co., Tulip & Palmer, Phila., Pa.
Rogers Sporting Goods Co., Springfield, Mass.
Spalding, A. G. & Bros., 126 Nassau, New York
Victor Sporting Goods Co., Springfield, Mass.
Wright & Ditson (Inc.), Boston, Mass.

## 4230— Gloves (Husking)

Blair Husking Glove Co., Bucyrus, O.
Boss Mfg. Co., Kewanee, Ill.

## Gloves (Insulating)

(See Gloves, Rubber)

## 4231— Gloves (Rubber)

Canton Rubber Co., Canton, O.
Combination Rubber & Belting Co. (Surgeon's Tissue), Bloomfield, N. J.
Consumers Rubber Co. ("Standard"), Cleveland, O.
Davol Rubber Co., Providence, R. I.
Faultless Rubber Co., Ashland, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goodyear Rubber Co., 787 B'way, New York
Goodyear's India Rubber Glove Mfg. Co., 503 B'way, New York
Hodgman Rubber Co., 806 B'way, New York
Imperial Rubber Mfg. Co. ("I. R." Seamless), Canton, O.
Miller Rubber Mfg. Co. (Also Finger Cots), Akron, O.
National India Rubber Co., Bristol, R. I.
Rubber Products Co., Barberton, O.
Seamless Rubber Co., New Haven, Conn.
Tyer Rubber Co., Andover, Mass.

## 4232— Glucose

**American Maize-Products Co., 135 William, New York**
**Benham & Noyes, 91 Wall, New York**
Corn Product Refining Co., 26 B'way, New York
**New York Glucose Co., 26 B'way, New York**

## 4233— Glue (Fish)

**American Glue Co., 123 W Kinzie, Chicago, Ill.**
**Dodd, A. W. & Co., Gloucester, Mass.**
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
Robinson Glue Co., Gloucester, Mass.
**Russia Cement Co., 103 Reade, New York**
Whittemore Bros. & Co., Cambridge, Mass.

## 4234— Glue (Gelatine)

**HEWITT, C. B. & BROS. (All Grades** for All Purposes), 49 Beekman, New York. (See adv. index, end of book)
Marblehead Mfg. Co., Marblehead, Mass.
**Michigan Carbon Works, Detroit, Mich.**
**National Gum & Mica Co., 502 W 45th, New York**

## 4235— Glue (Marine)

Ferdinand, L. W. & Co. ("Jeffrey's" Sole Importers), 201 South, Boston, Mass.
**GROSCHE, BRUNO & CO., 13 Jones la,** New York (See adv. index, end of book)

## 4236— Glue (Shlac-lac)

Union Casein Co. (Adheres to Glass, Metal, Wood, Leather, etc.), 2314 Wood, Phila, Pa.

## 4237— Glue Mfrs.

### CALIFORNIA.

SAN FRANCISCO—Armour Glue Works, 247 Butcher, L. H. Co., 208 1st Pine
California Glue Works, 6th av, So.
Western Meat Co., 6th & Townsend

### CONNECTICUT.

DANBURY—Connecticut Glue Co.

### DELAWARE.

WILMINGTON—Delaware Glue Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Royal Glue Co.

### ILLINOIS.

AURORA—Alba Mfg. Co.
CHICAGO—American Glue Co., 123 W Kinzie
Anglo-American Provision Co., U. S. Yard
Armour Glue Works, 3130 Benson
Bailey, C. T. & Co., 9 Jackson boul
Chicago Glue Co., 602 Austin av
Clarkson Glue Co., 3259 Shields av
Delaney & Co., 505 S Clinton
Diamond Glue Co., 218 La Salle
Herrmann, J. F. & Co., 279 Dearborn
Hirsh, Stein & Co., 2831 S Ashland av
Lister, Jos., 2429 Elston av
Northwestern Glue Co., 44th pl & Packers
Spiegel, J. & Co., 218 La Salle av
Swift & Co., Union Stock Yards
U. S. Glue Co., 193 Lake
Wisdom & Co., 205 Lake

### INDIANA.

INDIANAPOLIS — National Glue Co., 525 W
NEW ALBANY—Conrad Krammerer Glue Co.

### MARYLAND.

BALTIMORE—Baugh & Sons Co., 25 S Calvert
Coulson, Edw. L., 1268 E North av
Standard Glue Co., 350 N Holliday
Stricker, Henry H. & Co., 604 W Pratt

### MASSACHUSETTS.

BILLERICA—Jaquith, F. & J.
BOSTON—American Glue Co., 121 Beverly
Armour Glue Works, 49 Purchase
Baeder, Adamson & Co., 68 High
Commonwealth Glue Co., 40 N Market

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Consumers Glue Co., South Station
Diamond Glue Co., 164 Federal
Ferdinand, L. W. & Co. (Cement "20th Century" & "Jeffrey's" Marine Sole Importers), 201 South
Hammond Glue Co., 121 Beverly
Holdfast Glue Co. ("Holdfast Animal Liquid"), 414 Atlantic av
International Glue Co., 176 Atlantic av
Martin, D. B., Co. (Inc.), 415 Atlantic av
Nash, E. W. Co., 90 Pearl
Rogers, E. A. Co. (Importer), 170 Summer
Standard Glue Works, 88 Purchase
Whitten, J. O. Co., 68 Western av, Br.
GLOUCESTER—Dodd, A. W. & Co.
Gloucester Isinglass & Glue Co.
Robinson Glue Co.
Russia Cement Co. ("Le Page's" Liquid, etc.)
LOWELL—Holt, Jno. & Co.
MARBLEHEAD—Marblehead Mfg. Co.
PEABODY—American Glue Co.
ROCKPORT—Elwell, B. F., Glue Co.
WOBURN—Baeder, Adamson & Co.
WORCESTER—Darling, L. B. F. Co.

## MICHIGAN.

DETROIT—Fischer Gelatine Co., 2519 Jefferson av, W
Michigan Carbon Works, Forman & Carbon av
GRAND RAPIDS—Grand Rapids Glue Co.

## MINNESOTA.

MINNEAPOLIS—Barber, W. H., Lumber Exch

## MISSOURI.

ST. JOSEPH—Swift & Co., Stock Yards
ST. LOUIS—American Glue Co., 410 Elm
Clarkson Glue Co., 216 N Main
Mathiason, P. B. Mfg. Co., 5342 N. 2d
Reardon Mfg. Co., 1533 N B'way
St. Louis Glue Mfg. Co., 121 Locust
Tamm Bros. Glue Co., Vandeventer av nr Wabash

## NEW HAMPSHIRE.

KEENE—Keene Glue Co.

## NEW JERSEY.

NEWARK—Baeder, Adamson & Co.
Lister Agricultural Chemical Works

## NEW YORK.

BRONXVILLE—Kraft, Wm. F.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Blehdon, Victor R.
Buffalo Reduction Co.
Couch, B. T. & Co.
GLOVERSVILLE—Fulton County Glue Co.
GOWANDA—Eastern Tanners' Glue Co.
JOHNSTOWN—Fulton County Glue Co.
Knox, C. B. Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Arabol Mfg. Co., 58 Nostrand av
Cooper's, Peter Glue Factory, Maspeth av & Gardner av

### Boroughs of Manhattan & Bronx.

NEW YORK—Am. Agricultural Chem. Co., 2 Armour Glue Works, 211 Pearl
Baeder, Adamson & Co., 67 Beekman
Bird, J. A. & W. Co., 62 Maiden la.
Cooper's, Peter Glue Factory, 111 B'way
Delany & Co., 281 Pearl
Eagle Glue & Curled Hair Co., 2 Dover
HEWITT. C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Isaac, S. & Co., 100 William & 299 Pearl
Milligan & Higgins Glue Co., 222 Front
National Glue & Gelatine Works, 502 W 45th
National Gum & Mica Co., 502 W 45th
Somerville's, Wm. Sons, 292 Pearl
Stevenot, Chas. J. & Co., 388 Pearl
Townsend, Chas. & Bro., 276 Pearl

## OHIO.

CINCINNATI—Bird Varnish & Glue Co.
Marienthal & Co.
Stephens & Bro., Miami Canal & Marshall
CLEVELAND—Masek, Chas. Glue Co. av Rector

## PENNSYLVANIA.

LANCASTER—Lamparter, E. J.
Lamparter, Geo.
PHILADELPHIA—American Glue Co., 142 N Front
Baeder, Adamson & Co., Richmond & Allegheny av
Baugh & Sons Co., 20 S Delaware av
Berg, A. Glue Co., Ontario below Richmond
Commonwealth Glue Co., 12th & Chestnut
Delaney & Co., 209 N 3d
Diamond Glue Co., 213 North Water
Haws, Dan'l B., 30 N 5th
Martin, D. B. Co. (Inc.), 30th & Market
National Gum & Mica Co., 249 N Front
Tunnell, F. W. & Co., 15 N 5th
PITTSBURG—Wilhelm, Henry, 136 10th

## WISCONSIN.

MANITOWOC—Manitowoc Glue Co.
MILWAUKEE—United States Glue Co.

## 4238— Glue (Tanners')

Eastern Tanners' Glue Co., Gowanda, N. Y.

## 4238a—Gluers (Paper Box)

BECK, CHAS. CO., 607 Chestnut, Phila., Pa. (See adv. index, end of book)

## 4239— Glutinate

Loos & Dilworth, 134 S Front, Phila., Pa.

## 4240— Glycerine

Alba Mfg. Co., Aurora, Ill.
Clarkson Glue Co., 33d & Shilds av, Chicago, Ill.
Grasselli Chemical Co. ("C-P"), The Arcade, Cleveland, O., & 60 Wall, New York
Harshaw, Fuller & Goodwin Co., Electric bldg, Cleveland, O.
Jobbins, Wm. F. (Inc.) (Refiners), Aurora, Ill.
Marx & Rawolle, 100 William, New York
Proctor & Gamble Co., Cincinnati, O.
Schneider, E. & Co., Fisher bldg, Chicago, Ill.
Sholes, Chas. E Co., 164 Front, New York
Tennant's, C. Sons & Co. (Importers), 76 William, New York
Will & Baumer Co. (Distillers), Syracuse, N. Y.

## Go-Carts

(See Carriages, Children's with the words Go-Cart following their names)

## 4241—Goggles (Sand Blast)

American Diamond Blast Co., 50 Church, New York

## 4242—Goggles & Eye Protectors

Chicago Eye Shield Co. (("Eureka"), 134 S Clinton, Chicago, Ill.
Demmerle & Co., 248 W 23d, New York
Detroit Motor Car Co., Detroit, Mich.
Globe Optical Co., Boston, Mass.
Hayward, S. F. & Co., 39 Park pl, New York
Lamb Eye Shield Co., Boston, Mass.
Meyrowitz, E. B., 104 E 23d, New York
Motor Car Supply Co., 1420 Michigan av, Chicago, Ill.
Mnsell, Eugene Co., 68 Church, New York
Opthalmuscope Co., Toledo O.
Rhode Island Eye Shield Co. ("Weldron"). Providence, R. I.
Scheidig, Jno. B. & Co., 43 Maiden la, New York
Spencer Optical Co., 12 Maiden la, New York
Sussfield Lorsch Co., 37 Maiden la, New York
Scheffer & Rossum Co., St. Paul, Minn.
Texas Co. ("Panama", Eyeshade), 215 Kinzie, Chicago, Ill.

## 4243—Gold Leaf for Outside Decorations

Hastings & Co., Phila., Pa.
Hickson, Stephen, 559 Broome, New York
Kemp, W. H. Co., 165 Spring, New York
Swift, Thos. & Son, Rochester, N. Y.

## Gongs (Car, Etc.)

(See Bells & Gongs, Car)

## 4244—Gongs (Electro-Mechanical)

Bunnell, J. H. & Co., Park pl & Church, New York
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Edwards & Co., 140th & Exterior, New York
Gamewell Fire Alarm Telegraph Co., 19 Barclay, New York
Marshall Electric Co. ("M-S"), Boston, Mass.
Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Pearce, Frederick Co., 18 Rose, New York
Star Electric Co., Binghamton, N. Y.

## 4244a— Gongs (Signal)

Everhart Brass Works (For Mines, etc.), Scranton, Pa.

## 4245— Gongs (Steam)

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

## 4246—Gongs (Unmounted Electric Bell)

American Tube & Stamping Co., Bridgeport, Conn.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
East Hampton Bell Co., East Hampton, Conn.
Gong Bell Mfg. Co., East Hampton, Conn. (See Hardware & Woodenware Mfg. Co.)
Hardware & Woodenware Mfg. Co., 826 B'way, New York
Hill, N. N. Brass Co., East Hampton, Conn. (See Hardware & Woodenware Mfg. Co.)
Plume & Atwood Mfg. Co., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.

## 4247— Goosenecks

American Brass & Copper Co., 138 Lafayette, New York
American Foundry & Mfg. Co. (Lead & Cast Iron), St. Louis, Mo.
Campbell, J. B. Brass Works (Lead, etc.), Erie, Pa.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
Central Brass Mfg. Co., Cleveland, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill.
Federal Huber Co. (Cast Iron), Chicago, Ill.
Glauber Brass Mfg. Co., Cleveland, O.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co. (Lead, etc.), Erie, Pa.
Heap, Wm. & Sons, Grand Haven, Mich.
Humphreys Mfg. Co., Mansfield, O.
Kupferle, Jno. C. Fdry. Co. (Cast Iron), St. Louis, Mo.
McDonald, A. Y. Mfg. Co. (Cast Iron, etc.), Dubuque, Ia.
Modern Iron Works (Cast Iron), Quincy, Ill.
Mueller, H. Mfg. Co. (Lead, Wipe Joint, Lead Flange, etc.), Decatur, Ill.
Park & McKay Co., Detroit, Mich.
Riverside Foundry Co., Kalamazoo, Mich.
United Brass Mfg. Co., Cleveland, O.
Walworth Mfg. Co. (Lead, etc.), Boston, Mass.

## 4248— Gouges

BERNZ, OTTO S., 13th c S Orange, Newark, N. J. (See adv. index, end of book)
Bradley's G. W. Sons (Inc.) (Ship), Westport, Conn.
Braunsdorf-Mueller Co. (Carpenters, Plumbers & Turning), Elizabeth, N. J.
Buck, Chas. Edge Tool Co., Millbury, Mass.
Greenlee Bros. & Co. ("Reliance"), Ry. Exch. bldg, Chicago, Ill.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Ohio Tool Co., Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.
Swan, Jas. Co., Seymour, Conn.
White, L. & J. C. Co., Buffalo, N. Y.
Winsted Edge Tool Works ("T. H. Witherby"), Winsted, Conn.

## 4249—Governors (Compressor)

Foster Engineering Co., 119 Monroe, Newark, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Jarecki Mfg. Co. ("Erie"), Erie, Pa

## 4250—Governors (Electric Pump)

Fisher Governor Co. ("Pearson"), Marshalltown, Ia.
Foster Engineering Co., Newark, N. J.
Ford, Thos. P. Co., 407 Broome, New York
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)

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## 4251— Governors (Gas)

Baylis Company, Bloomfield, N. J.
**Chaplin-Fulton Mfg. Co. ("Fulton" for District or Service Use; also "Duplex" Sensitive with Automatic Cut-Off), Pittsburg, Pa.**
Connelly Iron Sponge & Governor Co. (Automatic, Balance, High Pressure & Service), 127 Duane, New York
Equitable Meter Co. ("Crawford", Street Main Governors), Pittsburg, Pa.
Ford, A., Oakland, Cal.
Gas Machinery Co., Cleveland, O.
**Helme & McIlhenny ("Foulis" Station), 1339 Cherry, Phila., Pa.**
Isbell-Porter Co. (Street Governors), Newark, N. J.
Lee International Gas Governor Co., Providence, R. I.
Leffler, Chas. & Co. ("Automatic"), 63 Clymer, Brooklyn, N. Y.
Reynolds Gas Regulator Co. (High Pressure for Artificial Gas), Anderson, Ind.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)

## 4252—Governors (Motor Compressor)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way, New York.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE TRACTION BRAKE CO., Pittsburg, Pa.**

## 4253—Governors (Pneumatic)

**NATIONAL BRAKE & ELECTRIC** Co. ("National," for Electric Cars), Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 4254—Governors (Pressure)

**Foster Engineering Co., 119 Monroe, Newark, N. J.**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**Johnson Service Co. (For Steam Boilers, Air Compressors, etc.), Milwaukee, Wis**
Tagliabue, Chas. J. Mfg. Co. (Automatic), 396 B'way, New York

## 4255— Governors (Pump)

Acton, John (Leather Cup Pump Governors). 116 John, Brooklyn, N. Y.
Albany Steam Trap Co. ("Blessing"), Albany. N. Y.
All Metal Valve Co. (Vacuum), 136 Liberty, New York
Atwood & Morrill ("XX Century"), Salem, Mass., & 136 Liberty, New York
Berry Engineering Co. ("Berry"), Chester, Pa.
Boston Steam Specialty Co., 168 Congress, Boston, Mass.
Burrows Mfg. Co. (Automatic), York, Pa.
Carr, E. M. Pump Governor Co., New Castle, Ind.
Chaplin-Fulton Mfg. Co. ("Fulton"), Pittsburg, Pa.
Chicago Engineer Supply Co. ("Boylston") 112 Lake, Chicago, Ill.
Consolidated Engineering Co. ("Van Auken," for Feed & Vacuum Pumps), 507 W Jackson boul, Chicago, Ill.
Collins Mfg. Co. ("Griffith's" Automatic), 612 Chestnut, Phila., Pa.
Crooks-Kries & Co., Baltimore, Md.
Davis, G. M. Regulator Co. (Auto. Condenser & Receiver), 422 Milwaukee av, Chicago, Ill.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Fisher Governor Co. ("Fisher"), Marshaltown. Ia
Ford, Thos. P. Co. (Automatic), 407 Broome, New York
Foster Engineering Co. (Diaphragm or Piston Operated, Hydraulic, Ammonia, Excess Boiler Feed, Vacuum, Fuel Oil, etc.), 119 Monroe, Newark, N. J.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
Hughson Steam Specialty Co. ("Eclipse"), 860 S Halstead, Chicago, Ill.
Ideal Automatic Mfg. Co. ("Ideal"), 125 Watts, New York
Johnson Service Co., Milwaukee, Wis.
Kieley & Mueller ("Rockaway" Automatic), 7 W 13th, New York
Kitts Mfg. Co. (Pressure), Oswego, N. Y.
Klipfel Mfg. Co. ("K. & T.," "Metz"), 214 N Carpenter, Chicago, Ill.
Linton Machine Co., 26 Cortlandt, New York
Locke Regulator Co. ("Boardman"), Salem, Mass.
Mason Regulator Co., Boston, Mass.
Middlesex Machine Co. ("Legg"), Lowell, Mass.
Monash-Younker Co., 1409 W Jackson blvd, Chicago, Ill.
Murray Automatic Boiler Feed Co., Detroit, Mich.
**MEYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Northern Equipment Co. ("Copes"), 408 W Indiana, Chicago, Ill.
**OTIS ELEVATOR CO. (Electric), 17 Battery pl, New York.** (See adv. index & branch offices, end of book)
S. C. Regulator Co. ("S.-C."), Fostoria, O.
Simonds Heating & Specialty Co. ("Simonds" Vacuum Pump), Grand Rapids, Mich.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Steam Appliance Co. ("Victor"), Milwaukee, Wis.
**STRONG, CARLISLE & HAMMOND** Co. ("The Strong"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New
Waters Governor Co., Everett, Mass. York
Watson & McDaniel Co. ("Watson" Steam Pump), 146 N 7th, Phila., Pa.
Williams, D. T. Valve Co., Cincinnati, O.
Williams Gauge Co. ("Williams"), Pittsburg,
Wilson-Snyder Mfg. Co., Pittsburg, Pa. Pa.
Witt, G. E. Co. (Inc.), 848 Howard, San Francisco, Cal.

## 4256—Governors (Steam Engine)

Bayard, M. L. & Co., Woodbine, N. J.
Foster Engineering Co., 119 Monroe, Newark, N. J.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
Gunther-Wright Machine Co., Owensboro, Ky.
Jarecki Mfg. Co., Erie, Pa.
Jones & Kuhlke ("Standard"), Akron. O.
Judson Governor Co. ("Eclipse"), Rochester, N. Y.
Nordberg Mfg. Co. (Automatic Cut-off), 476 Virginia, Milwaukee, Wis.
Pickering Governor Co., Portland, Conn.
Sinker-Davis Co. ("King," "Hoosier," "Rites"). 230 S Missouri, Indianapolis, Ind.
Vicksburg Governor Co. ("Eclipse"), Vicksburg, Mich.
Waters Governor Co., Everett, Mass., & Boston, Mass.

## 4257—Governors (Turbine)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 4258—Governors (Water Wheel)

Cohoes Iron Foundry & Machine Co. ("Snow"), Cohoes, N. Y.
Holyoke Machine Co., Holyoke, Mass.
Humphreys Machine Co., Keene, N. H.
Hunt, Rodney Machine Co., Orange, Mass.
Lombard Governor Co., Ashland, Mass.
Sturgess Engineering Dept. of Ludlow Valve Mfg. Co. ("Sturgess"), Troy, N. Y
Woodward Governor Co., Rockford, Ill.

## Grabs (Stone, Etc.)

(See Hooks, Grab)

## 4259— Graders (Barley)

Howes, S. Co. ("Rich"), Silver Creek, N. Y.

## Gradometers

(See Meters, Distance Recording)

## 4260—Grain Elevator Builders

American Machinery & Construction Co., Milwaukee, Wis.
Barnard Machinery Co., Enterprise, Kan.
Barnett & Record Co., Corn Exch., Minneapolis,
Benson, C. H., Minneapolis, Minn. Minn.
Campbell, J. A. & Son, Lincoln, Neb.
Carey Construction Co. (Concrete), Cleveland, Ohio
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**Chapman, A. F. & Co., Buffalo, N. Y.**
Griesser, Wilhelm Engineering Co., 11 B'way New York
Hicock, L. O. & Son, Minneapolis, Minn.
Honstain Bros. Co., Minneapolis, Minn.
Ibberson, T. E., Minneapolis, Minn.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Macdonald Engineering Co., Monadnock blk, Chicago, Ill.
Metcalf, John S. Co., 184 La Salle, Chicago, Ill.
**MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn.** (See adv. index, & branch offices, end of book)
Modern Warehouse Elevator Co., Colfax, Wash.
**Moulton & Evans, Minneapolis, Minn.**
Nordyke & Marmon Co., Indianapolis, Ind.
**Steel Storage & Elevator Construction Co. (Steel), Prudential bldg, Buffalo, N. Y.**
**STEWART, JAS. & CO., New Nat'l** Bank of Commerce bldg, St. Louis, Mo.
Stone-Watts Mfg. & Construction Co., Springfield, Mo.
Thromanhauser, S. H., Minneapolis, Minn.

## 4261—Grain Elevators (Portable)

Camp Bros. & Co. ("Camp"), Washington, Ill.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Climax Machinery Co., Indianapolis, Ind.
Engel, J. A. & Co. ("Success," "Cyclone"),
G. & D. Mfg. Co., Streator, Ill. Peoria, Ill.
Galloway, William Co., Waterloo, Ia.
Hart Grain Weigher Co., Peoria, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
King & Hamilton Co. ("American"), Ohawa, Ill.
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Marseilles Mfg. Co., East Moline, Ill.
Meadows Mfg. Co. ("Rocke"), Pontiac, Ill.
**Portable Elevator Mfg. Co. ("Little Giant"), Bloomington, Ill.**
Schroeder, H. V. Mfg. Co. ("Schroeder's"), Minier, Ill.
Sterling Machine Works, Sterling, Ill.
Warner Elevator Mfg. Co. ("Dakota," "Gopher," "North Star," "Warner"), Warner, Ill.
Wenzelmann Mfg. Co. ("Wenzelmann"), Galesburg, Ill.

## 4262—Grains & Brick (Rubbing)

Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

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Quarries on Picton Island, St. Lawrence River, near Clayton, N. Y.

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BEAUTIFUL GRANITES FOR MONUMENTAL, DECORATIVE AND BUILDING PURPOSES

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PAVING BLOCKS DIMENSION STONE


## 4263— Granite (Black)

French Creek Granite Co., St. Peters, Pa..
Peirce, John Co., 90 West, New York

## 4264—Granite Building Work (Cutters' & Contractors')

**(These names are duplicated under the head of Granite Producers, Workers & Dealers)**

**Anderson, Ola, Concord, N. H.**
Benvenue Granite Co., 20 Vesey, New York
**Birney, R. C. & Co., 1215 Filbert, Phila., Pa.**
**Bishop, J. W. Co., Worcester, Mass., Boston, Mass., Providence, R. I.**
**Bodwell Granite Co., Rockland, Me.**
Booth Bros. & Hurricane Isle Granite Co., 208 B'way, New York
Brown, Herbert L. Co., 4th av & 27th, New York
Cross Bros. Co., Northfield, Vt., & 27 E 21st, New York
Ellis, E. B. Granite Co., Northfield, Vt.
Fletcher, H. E. & Co. (Mausoleums, Vaults, etc.), West Chelmsford, Mass.
Flint Granite Co., 1123 B'way, New York
**Flynt, W. N. Granite Co., Monson, Mass.**
**Georgia Quincy Granite Co., Macon, Ga.**
Granite Railway Co., Quincy, Mass.


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**Penna Marble & Granite Co.**

Quarry Owners & Cut Stone Contractors,

Penna Bldg., PHILADELPHIA, PA.


Guilford & Walterville Granite Co., 3 E Lexington, Baltimore, Md.
**Hallowell Granite Works, Hallowell, Me., & 53 State, Boston, Mass.**
Jones Bros. Co. (Monumental Work a Specialty), Boston, Mass.
Leopold, J. & Co., 18 B'way, New York
McClenahan Granite Co., Port Deposit, Md.
McDonnell & Sons, Buffalo, N. Y.
**Maine Red Granite Co., Red Beach, Me.**
Maine & New Hampshire Granite Co., Portland, Me.
**Mount Waldo Granite Works, Frankfort, Me., & 277 B'way, New York**
**NEW ENGLAND GRANITE WORKS.** Westerly, R. I. (See adv. index & branch offices, end of book)
Norcross Bros. Co., Worcester, Mass.
North Carolina Granite Corp., Mount Airy, N. C.
Peirce, Jno. Co., 90 West, New York
**PENNA MARBLE & GRANITE CO.,** Penna bldg, Phila., Pa. (See adv. index, end of book)
Petersburg Granite Co., 3 E Lexington, Baltimore, Md.
**PICTON ISLAND RED GRANITE CO.,** 320 5th av, New York. (See adv. index, end of book)
Pigeon Hill Granite Co., Rockport, Mass.
**ROCKPORT GRANITE CO., Rockport, Mass.** (See adv. index & branch offices, end of book)
Rullman & Wilson, Baltimore, Md.
St. Cloud Granite Works, St. Cloud, Minn.
Schneider Granite Co., 2140 DeKalb, St. Louis, Mo.
Swenson, Jno., Concord, N. H.
Troy White Granite Co., Troy, N. H., & Worcester, Mass.
Venable Bros., 804 Temple Court, Atlanta, Ga.
Webb Pink Granite Co. ("Milford Pink"), Quarries: Worcester, Mass.
Wells, Lamson Quarry Co., Barre, Vt.
Wetmore & Morse Granite So. (Rough Barre Granite), Montpelier, Va.
White Granite Co., Long Island City, N. Y.
Windsor Green Granite Co., Worcester, Mass., & Windsor, Vt.
Winnsboro Granite Co., Rion, S. C.
Woodbury Granite Co., Hardwick, Vt.

## 4265—Granite Columns (Polished)

Blake, Chas. G. & Co., 184 La Salle, Chicago, Ill.
Bodwell Granite Co., Rockland, Me.
Booth Bros. & Hurricane Isle Granite Co., 208 B'way, New York
Brown, Herbert L. Co., 4th av & 27th, New York
Fletcher, H. E. & Co., West Chelmsford, Mass.
Granite Railway Co., Quincy, Mass.
Hallowell Granite Works, Hallowell, Me.
Jones Bros. Co., 161 Summer, Boston, Mass.
**NEW ENGLAND GRANITE WORKS.** Westerly, R. I. (See adv. index & branch offices, end of book)
Norcross Bros. Co., Worcester, Mass.
**PENNA MARBLE & GRANITE CO.,** Penna bldg, Phila., Pa. (See adv. index, end of book)
**PICTON ISLAND RED GRANITE CO.** (Pink & Red), 320 5th av, New York. (See adv. index, end of book)
Richards, John R., Quincy, Mass.
**ROCKPORT GRANITE CO., Rockport, Mass.** (See adv. index & branch offices, end of book)
Ruggles Granite Co. ("Oklahoma Red"), Granite, Okla.
St. Cloud Granite Works, St. Cloud, Minn.
Simmers & Campbell (Turned & Polished), St. Cloud, Minn.
Wells, Lamson Quarry Co., Barre, Vt.
White Granite Co., West av, Long Island City, N. Y. Quarries: Blue Hill, Me.
Woodbury Granite Co., Hardwick, Vt.

## 4266— Granite (Crushed)

(See Stone, Crushed; also Trap Rock)

## 4266a— Granite (Green)

Clements, Chas. ("American" Killarney), Boston, Mass. Quarries: Ausable Forks, N. Y.

## 4267— Granite (Ligonier)

Booth & Flinn (Ltd.), 1942 Forbes av, Pittsburg, Pa.

## Granite Mausoleum & Vault Builders

(See Granite Building Work, Cutters & Contractors)

## 4268— Granite Meal

McClenahan Bros. Granite Co., Port Deposit, Md.

## Granite (Monumental)

(See Granite Building Work, Cutters& Contractors)

## Granite (Monumental Work)

(See Granite Building Work, Cutters & Contractors; also Barre, Vt.; Quincy, Mass., & Westerly, R. I., in Granite Producers, Workers & Dealers)

## 4268a—Granite (Porphyry Syenite & Labradorite)

**BOCKMANN & SHEPARD, 1265-9** B'way, New York. (See adv. index, end of book)

## 4269—Granite Producers (Pink)

Balfour Quarry Co., Asheville, N. C.
Brown, Herbert L. Co. (Jersey & No. Carolina Pink), 4th av & 27th, New York
Fletcher, H. E. & Co., West Chelmsford, Mass.
Geddis & Serrie Stone Co., Continental bldg, Denver, Colo.
Lovejoy Granite Co., Milford, N. H.
Leopold, J. & Co., 18 B'way, New York
Milford Quarry & Construction Co., Milford, N. H.
**NEW ENGLAND GRANITE WORKS,** Westerly, R. I. (See adv. index & branch offices, end of book)

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Norcross Bros. Co. (Milford Pink), Worcester, Mass.
**PICTON ISLAND RED GRANITE CO.** (Also Red), 320 5th av, New York. (See adv. index, end of book)
Sweeney Granite Works, Westerly, R. I.
Webb Pink Granite Co., Worcester, Mass.
Wise Granite Co., Wise, N. C.

## 4270—Granite Producers (Red)

Anderson Bros. & Johnson (Wassau Red), Granite Heights, Wis.
Bodwell Granite Co., Rockland, Me.
Booth Bros. & Hurricane Isle Granite Co., 208 B'way, New York
Brown, Herbert L. Co. (Maine Red), 4th av & 27th, New York
Leopold, J. & Co., 18 B'way, New York
Maine Red Granite Co., Red Beach, Me.
Menten Granite Co., Oklahoma City, Okla.
**NEW ENGLAND GRANITE WORKS.** (Westerly Red, etc.), Westerly, R. I. (See adv. index & branch offices, end of book)
Norcross Bros. Co. (Stony Creek, etc.), Worcester, Mass.
Peirce, John Co., 90 West, New York
**PICTON ISLAND RED GRANITE CO.** (Also Pink), 320 5th av, New York. (See adv. index, end of book)
**ROCKPORT GRANITE CO., Rockport,** Mass. (See adv. index & branch offices, end of book)
Ruggles Granite Co., Granite, Okla.
Smith Granite Co., Westerly, R. I.
Sweeney Granite Works, Westerly, R. I.

## 4271—Granite Producers, Workers & Dealers

(Those marked with the Star (*) have Quarries)

All other Granite classifications are duplicates of this list.

(See also Granite Building Work, Cutters & Contractors; also Granite Columns, Polished; also Marble Producers; also Stone Producers, Workers & Dealers)

### CALIFORNIA.

EXETER—*Rocky Point Granite Works
NEVADA CITY—*Bridges, E. D.
PENRYN—*Griffith, David
California Granite Co.
Hendrickson, S.
Jauhila, Jacob
Marx, Albert W.
Roberts, David A.
SACRAMENTO—*Carlow Bros.
SAN DIEGO—*Simpson, Pirnie Granite Co.
SAN FRANCISCO—McGilvray Stone Co., Townsend nr 7th
Raymond Granite Co., 10th & Division
SAN JOSE—*Western Granite & Marble Co.

### COLORADO.

DENVER—*Denver Marble & Granite Co., 1224 Lawrence
*Denver Marble & Granite Co., 1224 Lawrence
Geddis & Seerie Stone Co., Continental bldg
Rauh, Mrs. A., 3601 Blake

### CONNECTICUT.

GROTON—*Salter, J. & Son
HADDAM—*Dickinson, Azariah
LEETES ISLAND—Beattie, John
MILLSTONE—Gardner, Henry
NEW HAVEN—Bowden, Thos., 139 Sylvan av
NEW LONDON—Booth Bros. & Hurrican Isle Granite Co. (Red, Grey, White, etc.)
Buckley, Michael, D.
*Kopp, Jacob K.
Sayle, Thos., Jr.
NORWALK—Bates, Jno. S.
STONY CREEK—Stony Creek Red Granite Co
WATERFORD—*Booth Bros. & Hurricane Isle Granite Co.

### DELAWARE.

WILMINGTON—Delaware Mining & Granite Co

### DISTRICT OF COLUMBIA.

WASHINGTON—*Acker & Co., 524 N. J. av. N W
Falvey, Michael J., Pa. av c 21st, N W

### GEORGIA.

ATLANTA—Atlanta-Indiana Stone Co.
*Broad River Granite Co. ("Oglesby")
Cherokee Marble & Granite Co.
Georgia Granite Co.
Pine Mountain Granite Co.
*Venable Bros., Temple Court
ELBERTON—Elberton Granite Co.
*Long Blue Granite Co.
LITHONIA—Brand, J. T.
Brantley Granite Co.
Evans, W. P.
Kelly Granite Co.
*Pine Mountain Granite Co.
Reagan, E. O. & Co.
*Southern Granite Co.
MACON—*Georgia Quincy Granite Co.
REDAN—*Wells Granite Co.
SAVANNAH—Dixie Stone Co.
TATE—Sickles, Geo. B. Marble Co.

### IDAHO.

LEWISTON—Idaho Granite Co.

### ILLINOIS.

BLOOMINGTON—Higgins-Jung-Kleinau Co.
Moore, J. K.
CHICAGO—American Granite Co. (Wholesalers), Cham. of Commerce bldg
Blake, Chas. G. & Co., 184 La Salle
Edwards & Ward, Fullerton av Bridge
Fenn, C. E. & Co. (Wholesalers), 164 Dearborn
Gall, Chas. H., 79 Dearborn
Laechle, W. C. Co., 108 La Salle
MacLane, Edw., 36 La Salle
Peirce, John Co., 138 Jackson boul.
Waushara Granite Co., 172 Washington
Wisconsin Granite Co., Chamber of Commerce bldg

### MAINE.

ADDISON—Pleasant River Granite Co.
BANGOR—*Bangor Granite Co.
*Queen City Granite Co.
BIDDEFORD—Gowen & Co.
*Howe, L. B. & Co.
BLUE HILL—*Chase Granite Co.
CALAIS—Douglas Bros.
CLARK'S ISLAND—*Clark's Island Granite Works
FRANKFORT—*Mount Waldo Granite Works
FRANKLIN—Blaisdell, W. B. & Co.
Bragdon & Fernald
Harvey, W. T., Jr., & Son
FREEPORT—*Long & Saunders Quarry Co.
FRYEBERG—*Eagle Gray Granite Co.


# Hendricks' Commercial Register

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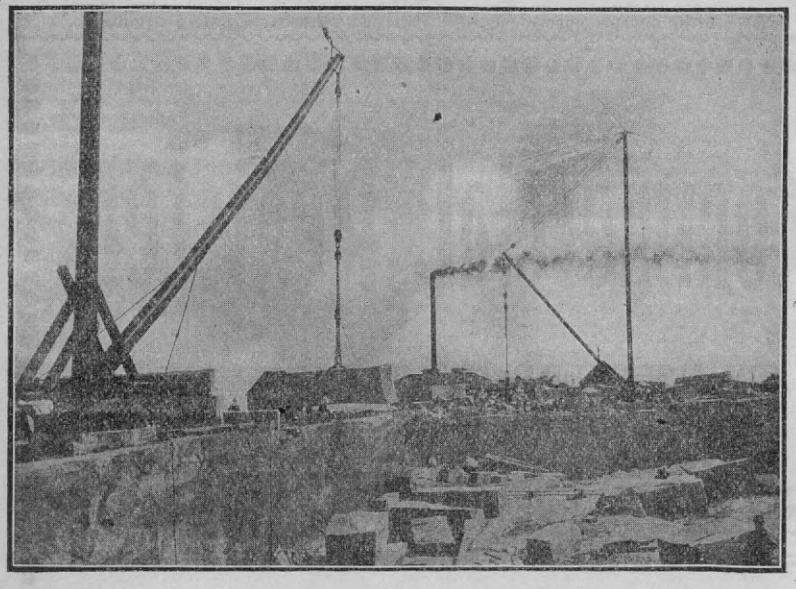
HALLOWWELL—Brown, Herbert L. & Co. (Jersey & No. Carolina Pink, Hallowell White & Maine Red)
*Hallowell Granite Works.
HANCOCK—Abbott, Alonzo
Abbott, E. E.
JONESBORO—*Rodwell Granite Co.
*Booth Bros. & Hurricane Isle Granite Co.
MOUNT DESERT—Allen Granite Co.
NORTH JAY—*Maine & New Hampshire Granite Corp.
*Maine & New Hampshire Granite Corp.
NORTH SULLIVAN—Abbott, Alonzo
Bragdon & Fernald
Crabtree & Havey
Havey, W. T., Jr., & Son
Hooper, Havey & Co.
Robertson, Ira J. (Est. of)
PORTLAND—Hawkes Bros., ft of Wilmot
*Maine & New Hampshire Granite Corp'n
Union Granite Co., ft of Wilmot
RED BEACH—*Maine Red Granite Co.
Mingo & Bailey
ROCKLAND—Bodwell Gran. Co. (Red & Grey)
*Booth Bros. & Hurricane Isle Granite Co. (Red, Grey, White, etc.)
ROCKPORT—*Achorn Bros.
SOUTH THOMASTON—Green, Geo.
Ingram, John
SPRUCE HEAD—*Bodwell Granite Co.
STONINGTON—Benvenue Granite Co.
*Goss, John L.
*Hagan, John & Co.
*Latty Bros. Granite Co.
SULLIVAN—*Dunbar Bros.
SWANVILLE—Webb, F. J. & F. T.
TENANTS HARBOR—Booth Bros. & Hurricane Isle Granite Co.
THOMASTON—Burton, Alvah F.
VINALHAVEN—Black, J. S.
WATERVILLE—*Waterville Granite Co.
WHITEFIELD—*Jewett, E. C.

## MARYLAND.

BALTIMORE—Berry & Tracey, Hamburg & Ohio
Bevan & Sons, Frisby & B. & O. R. R.
*Guilford & Walterville Granite Co. (Dimension & Building), 3 E Lexington
Hilgartner Marble Co., Sharpe & Ostend
Mezger, G. & Son, 1032 W. Balto
*Petersburg Granite Co. (Dimension & Building), 3 E Lexington
Rullman & Wilson (Granite Workers), Lafayette & Mt. Royal av
GUILFORD—*Guilford & Walterville Granite Co. (Dimension & Building)
Miller & Kirkpatrick
WOODSTOCK—*Peach, Frank & Co

## MASSACHUSETTS.

BOSTON—Anderson Bros. (Importers of Scotch Granite), J. P.
Charles River Stone Co. (Red & Grey), 221 Columbus av
Clements, C. (Importer, Scotch), 372 Boyl'n
*Cook & Watkins (Monumental Wholesale), 221 Columbus av
Donahoe, M. J., 305 N Beacon, Br.
*Fletcher & Lahey (Grey, Pink & White), 166 Devonshire
*Goss, Jno. L., 166 Devonshire
*Hallowell Granite Works, 53 State
Harrington, John, 166 Devonshire
Jones Bros. & Co., 161 Summer
Jones, Samuel O., 479 Meridian, E B
*Maine Coast Granite Co., 53 State
*Norcross Bros. Co. (Grey, Red & Green Quarries at Milford, Mass.; Stony Creek, Conn.; Windsor, Vt., & Oneco, Conn.), Tremont bldg
*Pigeon Hill Granite Co., 166 Devonshire
Ricker, E., Son & Co., 166 Devonshire
***ROCKPORT GRANITE CO., 31 State.** (See adv. index, end of book)
Sweatt & Gould, 166 Devonshire
Torreys & Co., 8 Medford
Van Amringe Granite Co., 172 Tremont
Walker, A. L. & Co., 3636 Wash'n
Willison, E. C. Co. (Inc.), 221 Columbus av
CHESTER—*Hudson & Chester Granite Co.
EAST MILTON—*Maguire & O'Heron
FALL RIVER—*Beattie, Wm. (Dealer & Contractor)
*Fall River Quarry & Construction Co.
*Wilmot, J. B.
FITCHBURG—Godbeer, Henry
*Litchfield, Orin E.
*McCauliff, F. A.
*Moran & Godbeer
GRANITEVILLE—*Fletcher, H. E., Co.
Fletcher & Lahey
*Hildrith, Herbert V.
*Palmer, L. P.
*Wright, Hammett D.
LANESVILLE—Canney, Edwin
*Cheves, Wm. R.
LAWRENCE—Lawrence Granite Co.
LINWOOD—*Blanchard Bros. Granite Co.
LYNN—Merrill, Geo. B., & Co.
MILFORD—Hutchings, Geo. T. & Sons
Massachusetts Pink Granite Co.
*Milford Pink Granite Quarries
*Norcross Bros. Co. (Grey, Red & Green)
*North Milford Granite Co.
*Webb Pink Granite Co.
MONSON—*Flynt, W. N. Granite Co.
QUINCY—Aberdeen Granite Works, West Quincy
Aberogwen Monumental Works, West Quincy
Badger, L. K. & Co.
Ballou, J. C.
Barker, Wm. P.
Barnicoat, Fred, South Quincy
Birnie & Diack, South Quincy
Bishop, Alfred, South Quincy
Bishop, Charles, South Quincy
Bishop, E. & B.
Bishop, Joseph, South Quincy
Bishop, Thos., South Quincy
Bishop & Lecount
Bizzozero, E., West Quincy
Burns & Co., South Quincy
Calahan, Wm.
Cameron, Daniel E.
Canniff & Murphy
Cantley, Robert
Cashman, John, West Quincy
Clark & Pearce, South Quincy
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Cormack, P. H., West Quincy

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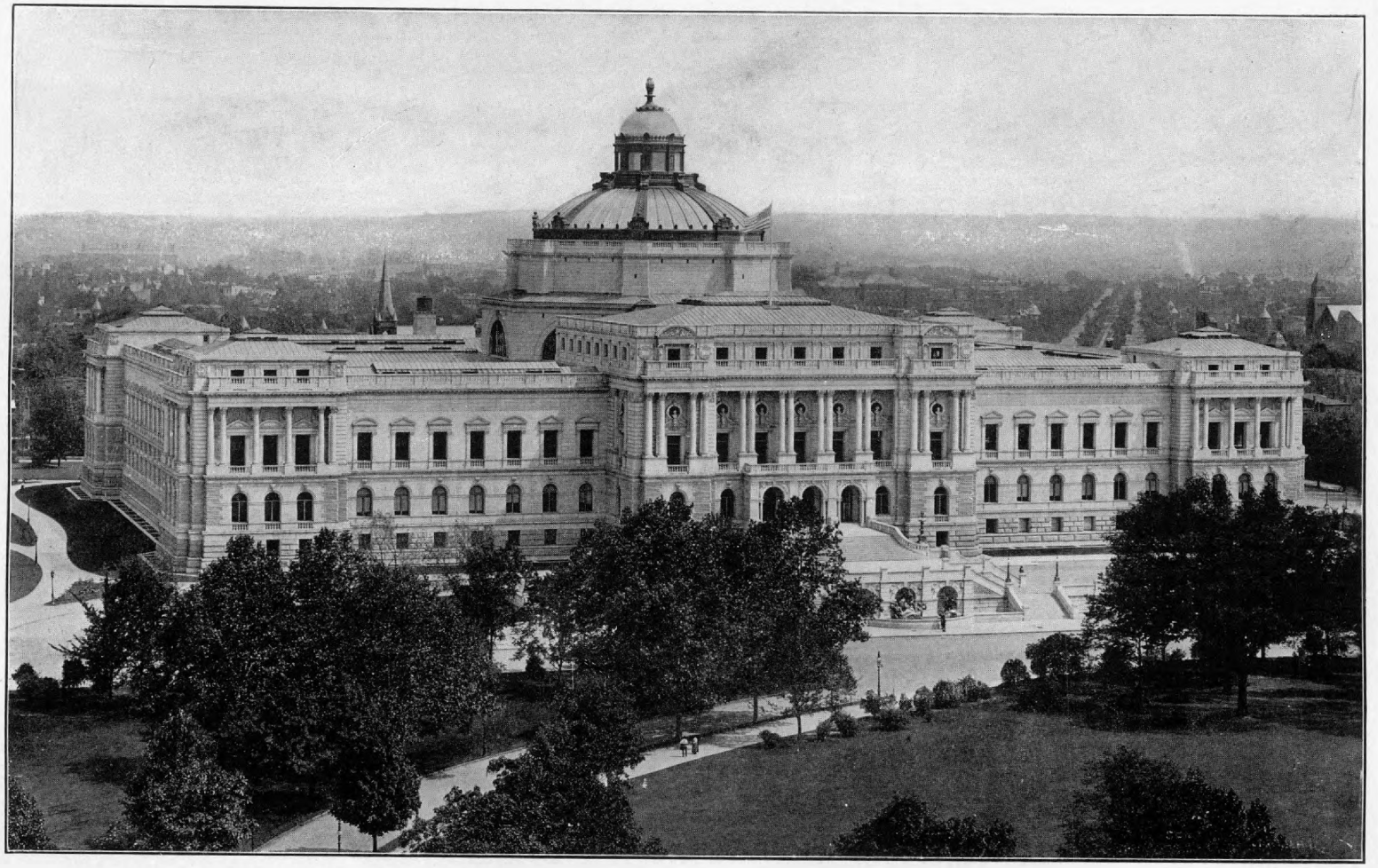
We are just completing contracts for furnishing cut stone for the United States Dry Docks at Brooklyn, N. Y. and Norfolk, Va., and also shipping stone with which to build the immense piers and walls for the Commonwealth of Massachusetts, on which are to be erected the Fish Houses in the City of Boston. This is one of the largest contracts of its kind ever undertaken in heavy masonry.

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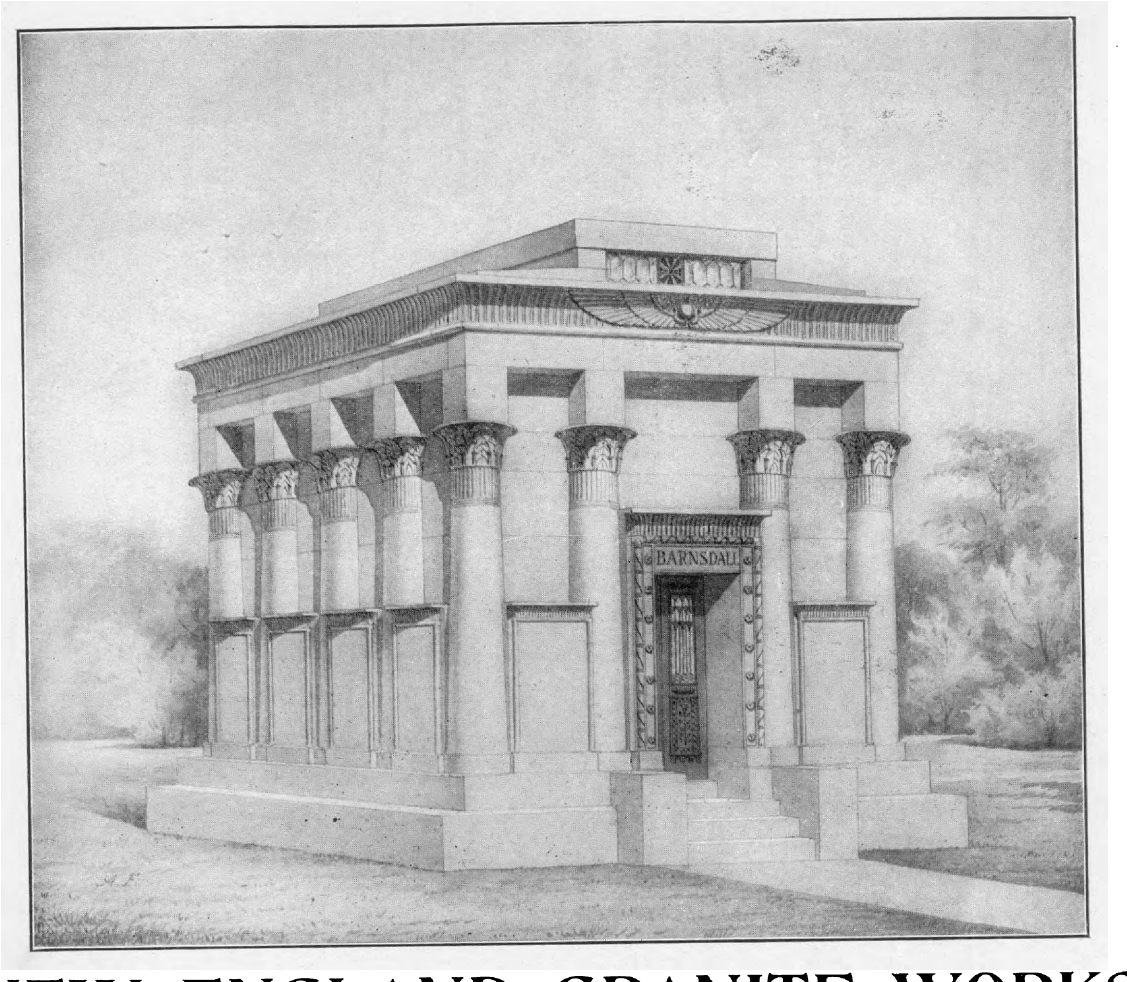
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Djerf & Winquist
Eagle Polishing Co., South Quincy
Elcock & Sons, West Quincy
Empire Polishing Co., South Quincy
Falconer & Co.
Field & Wild
Fitzgerald, D. F.
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Garrity, Philip F.
Glencoe Granite Co., West Quincy
Golbranson & Co., South Quincy
Granite Railway Co., West Quincy
Hardwick, C. H. & Co.
Hughes & Johnson
Igo, Jno. & Co., South Quincy
Jenkins, Jas. H.
Joss Bros. Co.
Kavanagh Bros. Co., South Quincy
Kemp, Alex. & Co., South Quincy
LeClair Bros., West Quincy
Long & Saunders, South Quincy
Malcolm, James, South Quincy
Malnati, A., South Quincy
Mannex, T. F., West Quincy
Marnock, A. & Co., South Quincy
McDonnell Bros., South Quincy
McDonnell & Kelly, South Quincy
McFarlane, George
McGillvary & Jones, South Quincy
McGrath Bros., South Quincy
McInness, Wm., & Co.
McIntosh & Sons, South Quincy
McLeod, W. J., & Co.
Merry Mount Granite Co. South Quincy
Miller, J. L., South Quincy
Milne & Chalmers, South Quincy
Milne & Hector, South Quincy
Mitchell, Thos., South Quincy
Monohan, M., West Quincy
Nicoll's Granite Works, South Quincy
Norfolk Granite Co.
Prout Bros., South Quincy
Qualey, J. R., South Quincy
Quincy Avenue Granite Co.
Quincy Column Turning Co.
Quincy Quarries Co.
Reed & Vendret, South Quincy
Richards, J. R., South Quincy
Richards & Richards, South Quincy
Shea, William & Son, West Quincy
Smalley, H. C.
Smith, John
Smith Granite Co.
Souden & Morrison, South Quincy
Spargo, William T., South Quincy
Stover & Gelotte Co.
Swingle, Chas. A. Co.
Swingle, J. S.
Thompson, John & Sons
Vogel, Joseph H., South Quincy
Walker, Joseph
White, James N. & Sons, West Quincy

ROCKPORT—*Pigeon Hill Granite Co., Pigeon Cove
*ROCKPORT GRANITE CO. (See adv. index, end of book)
SPRINGFIELD—Muir, James
STONEHAM—Perry, Bennett & Son
UXBRIDGE—*Blinchard Bros. Granite Co.
WEST CHELMSFORD—Fletcher, H. E. & Co. (Grey, Pink & White)
WEST TOWNSEND—*West Townsend Granite Syndicate
WHITINSVILLE—*Blanchard, Geo. M.
WORCESTER—Bishop, J. W. Co., 107 Foster
Loughlin & Crowley
*Norcross Bros. Co. (Grey, Red & Green Quarries at Milford, Mass; Stony Creek, Conn.; Windsor, Vt., & Oneco, Conn.), 12 E Worcester
*Troy White Granite Co., Quarries: Troy, N. H.
*Webb Granite & Construction Co., Quarries: Marlborough, N. H., & Fitzwilliam. N. H.
*Webb Pink Granite Co., Quarries: Milford, Wilson, Martin, 174 Prescott Mass.
*Windsor Green Granite Co., 10 E Worcester

## MINNESOTA.

MINNEAPOLIS—Juve, H. O., 714 Cedar av
ROCKVILLE—*Rockville Granite Co.
ST. CLOUD—*Agate Granite Co.
*Benzie & Campbell
*Black Diamond Granite Co.
East St. Cloud Granite Co.
Erickson, August, & Co.
*Frick & Borwick Granite Co.
*Granite City Granite Co.
*Holes Bros.
Jones, S. A.
*Lillquist, J.
*Melrose Granite Co.
Northwestern Granite Co.
*St. Cloud Granite Works
*Simmers & Campbell
United Granite Co.
Western Granite Co.
SAUK CENTER—*Sauk Center Granite Co.
SAUK RAPIDS—*Micho Granite Mfg. Co.

## MISSOURI.

GRANITEVILLE—Lopez & Sheahan
Ozark Red Granite Co.
Schneider Granite Co.
*Syenite Granite Co.
KANSAS CITY—Rice, Marshall H.
KNOBLICK—*Milne & Gordon Granite
ST. JOSEPH—Abercrombie Stone Co. Quarry
Pfeiffer Stone Co.
ST. LOUIS—*Eyermann, Geo. & Bro., 1216 Grand av
Jameson, Geo. B., Fullerton bldg
*Jonca Granite Co., Pierce bldg
Maryuardt, H. Marble & Granite Co., 1212 Clark av
*Milne & Gordon, Jefferson av & Mo. Pac. Ry.
Missouri Granite & Construction Co., 3410 Gratiot
Missouri Red Granite Monument Co., 2134 DeKalb
*Ozark Red Granite Co., Wainwright bldg
*Schneider Granite Co., 2140 DeKalb
*Syenite Granite Co., 125 S 4th

## NEW HAMPSHIRE.

CONCORD—*Anderson, Ola
Clancey, Jas. & Co.
Clark, F. R.
Concord Granite Co.
Crowley, P.
Duffy, M. J.
Dunstane, T. H.
*Fox, Thomas
Gannon, Michael G.
*Henneberry & Halligan
Hosking, J. R. & Co.
Langley & Scampini
Laplante & Dufraine
Lapiere, A. A., & Co.
Larson, Alfred, & Co.
McAlpine, A. G., & Co.
McGuire, M. J.
*NEW ENGLAND GRANITE WKS. (See adv. index, end of book)
New Hampshire Granite Co.
Norstrom & Johnson
*Perry, W. H. & Co.
Phillips & Sanders
*Racine, Oliver
Smith, S. & Son
*Swenson, John
FITZWILLIAM DEPOT—*Angier, R. L.
Blodgett, Wm. E. & Co.
Cheshire Stone Concern
*Perry White Granite Co. (See Keene, N. H.)
Rosazza, D. B. & Sons
Thompson & McKinley
*Webb Granite & Construction Co.
Wilson, A. F.
KEENE—*Perry White Granite Co. (Silver White & Snow Flake) Works, Fitzwilliam Depot, N. H.
LANCASTER—Emerson & Co.
MARLBORO—*Webb Granite & Construction Co.
MILFORD—Bergami, Nicholas
Bishop, J. B.
Burnett Bros.
Calderara, C. L. & Co.
Carlton, Isaac H.
Caron Bros.
Columbia Granite Co.
Comolli & Trentini
Conti Bros.
*Daniels Granite Co.
Felli, P. C. & Co.
Hayden, Henry W.
*Kittredge, E. G.
Lovejoy Granite Co.
Machi & Co.
*Milford Quarry & Construction Co.
Murphy Bros.
*New Westerly Granite Co., Laurel
*Parker, George F.
Smith, John T.
Thompson, Jos. R.
Tonella & Sons
Wark, Jas.
Young's Sons & Co.
NASHUA—Mulvanity, T. E.
*Nashua Granite Co.
NORTH HAVERHILL—*Jesseman Granite
PENACOOK—*Hanson, S. L. & Co. Co.
RED STONE—*Maine & N. H. Granite Corp.
ROCHESTER—*Hawkes, E. M.
SUNCOOK—*Bailey, Charles A.
TROY—*Troy White Granite Co.

## NEW JERSEY.

EDGEWATER—BATTERSON & EISELE, (See adv. index, end of book)
HOBOKEN—Couch, Thos.
NEWARK—Wyllie-Saylor Granite Co.
POMPTON—Brown, Herbert L. Co. (Jersey & No. Carolina Pink, Hallowell White & Maine Red)

## NEW YORK.

BUFFALO—*McDonnell & Sons, 860 Main
Maltby, Geo. W. & Sons Co., 21 Maryland

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Arnold, W. R., 56 Milton
Hynes, John, Bond & Union
Peirce, J. Co., Greenp't av & Newt'n creek

### Boroughs of Manhattan & Bronx.

NEW YORK—Albertson, Kerr F., 1133 B'way
Annette & McConnell, 10 W 141st
*BATTERSON, J. G., 489 5th av.
BATTERSON & EISELE, Times bldg, 42d. (See adv. index, end of book)
Benvenue Granite Co., 20 Vesey
*Booth Bros. & Hurricane Isle Granite Co. (Red, Grey & White), 208 B'way
Brown, Herbert L. Co. (Jersey & No. Carolina Pink, Hallowell White & Maine Red), 4th av & 27th
*Chase Granite Co., 11 B'way
Clarks Island Granite Co., 121 W 125th
Davey & Morgan, 135th & Park av
*Dutton, James E., 42 E 23d
East Side Granite Co.
Eastman, H. E., 1 Madison av
Edwards, Jno., Jr., 47 W 34th
*Flint, Granite Co., 1123 B'way
French, H. Q., 366 5th av
Harrison Granite Co., 200 5th av
Herow Granite Co., Willow av & 133d
Lenahan, Bernard J., 140th & Ridder av
Leopold, J. & Co. (Granite Contractors), 18 B'way
Le Poidevin, A. & Co., 156 5th av
Macray & Bro., 558 W 43d
Mead, Geo. L., 5 E 42d
Metropolitan Granite & Supply Co., 1170 B'way
Mohegan Granite Quarrying Co., 18 B'way
*NEW ENGLAND GRANITE WKS. 489 5th av. (See adv. index, end of book)
New York Granite Co., 1133 B'way
New York & Mass. Granite Works, 1545 B'way
*Norcross Bros. Co. (Grey, Red & Green), 103 Park av
North Carolina Granite Corporation (of Mount Airy, N. C.), 41st & Park av
O'Connell, M., 537 W 40th
O'Connor-Walker Cut Stone Co., 1 Madison
Penney & Bunt, Willow av & 132d av
PICTON ISLAND RED GRANITE Co. (Red & Pink), 320 5th av. (See adv. index, end of book)
*Pierce, John Co., 90 West
Pirie, Jno. G., E 135th & Mott Haven
Potter, Henry M., 90 West Canal
Roberts, Walter J., 81 New
*ROCKPORT GRANITE CO., 21 Park row. (See adv. index, end of book)
Ryan-Parker Construction Co., 21 Park row
Sherwood, G. P. & Co., 1123 B'way
Sherwood, S. Clinton Co., 1133 B'way
Smith Bros. Granite Co., 527 5th av
*Tayntor, C. E., Granite Co., 29 W 34th
Wegenaar, John L., 485 5th av
Williams, B. A. & G. N. (Inc.), 1272 Av A
Woodbury Granite Co., 1 Madison av
Woodward, C. F. Co., 1133 Broadway
Woody, Howard L., 287 4th av
Young, Jas. H. Stone Co., 135th & Locust av

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## Borough of Queens.

LONG ISLAND CITY—Dyer, John N., & Son
McGrath, Michael, & Co.
Neary, Peter, & Son Co.
*White Granite Co.

**(End of New York City)**

PORT JERVIS—Nearpass, Wm. J.

## NORTH CAROLINA.

ASHEVILLE—*Balfour Quarry Co. (Pink)
CHARLOTTE—Mecklenburg Marble & Granite Co. (Cut Contractors)
MOUNT AIRY—*North Carolina Granite Corp.
SALISBURY—*Balfour Pink Granite Co.
*Dunn Mountain Granite Co.
WINSTON-SALEM—*Consolidated Granite Co. (Blue Pearl)
*McGalliard Granite Co. (Blue Pearl)
WISE—*Wise Granite Co. (Pink & White)

## OHIO.

CINCINNATI—Cincinnati Granite Works, 4043 Spring Grove av
Eberhardt, J. A., Wiggins blk
Enterprise Stone & Granite Co., 1610 Reading rd
McClure, T. F. & Sons Co., Perin bldg
Pioneer Granite Co., 837 W 5th
Sarvis, W. H., 941 W 5th
CLYDE—Hughes Granite Co.
MANSFIELD—Preston, Burton (Wholesale Granite Monuments)
Wolff, E. M. & Co. (Dealers)
ZANESVILLE—Cary, F. S. & Co.
Townsend, W. C. & Co.

## OKLAHOMA.

GRANITE—*Oklahoma Rose Granite Co.
Ruggles Granite Co. (Red for Building & Monumental Work)
MOUNTAIN PARK—*Egyptian Granite Co.
OKLAHOMA CITY—*Menten Granite Co. (Red)

## PENNSYLVANIA.

BETHAYRES—*Jarrett, Franklin H.
CHAMBERSBURG—Chambersburg Granite Co.
GETTYSBURG—*Lightner, Frank E.
*Lightner, Nathaniel
GREENLANE—Perkiomen Granite Co.
NORRISTOWN—*McGrath, Patrick & Sons
PHILADELPHIA—Barker, H. & Bro., Witherspoon bldg
Birney, R. C. & Co. (Rough Stock, etc.), 1215 Filbert
Clearfield Quarrying Co., 14 S Broad
Craig-Price Granite Co., Mutual Life bldg
Dunn, Wm. J. & Son, 331 S 23d
Hogan, John, & Co., American & Cambria
Hastings & Morrison, 1510 Wash'n av
Holesburg Granite Co., Fidelity Mutual Law & Burwell, 24th & Locust Life bldg
McClenahan Granite Co., Penna bldg.
PENNA MARBLE & GRANITE Co., Penna bldg. (See adv. index, end of book)
Richardson & Ross Quarry Co., Penna. bldg
Schilling, Frank H. (White, Grey, Pink, Red, Blue, Green, etc.), 614 Hale bldg
*Schuylkill Stone Co., Bulletin bldg
Williamson, Frank (Wholesale), 2202 Chestnut
PITTSBURG—Booth & Flinn (Ligonier), 1942 Forbes
Colwell Granite Co., Farmers' Bank bldg
Lauffer, E., Granite Co., Park bldg
ST. PETERS—*French Creek Granite Co. (Black)
WEST GROVE—*Pennsylvania Marble & Granite Works

## RHODE ISLAND.

BRISTOL—*Bristol Granite Co.
COVENTRY—*Beaton, James
EAST PROVIDENCE—*McCormick, Jos.
NIANTIC—*Crumb Granite Co.
Faverio & Currie (Contractors)
PASCOAG—*Garvey, Luke
PROVIDENCE—Bishop, J. W. Co., Butler Ex
Norcross Bros. Co. (Grey, Red & Green)
Ray & Kenneth Co., 1143 Westminster
*Smithfield Granite Co.
Tingley, E. H., Co. (Polisher)
WESTERLY—*Calder & Carnie Westerly Granite Co.
Catto Granite Co.
Coduri & Marzoli
Columbia Granite Co.
*Farrell, A. & Sons
Flynn, Maurice W.
*Gourlay Granite Works
Morrison, A. C.
*Murray, Alex. & Co.
Newall, Jos. & Co.
*NEW ENGLAND GRANITE WKS. (See adv. index, end of book)
*Smith Granite Co.
Spargo, Wm.
*Sweeney Granite Works (Grey, Pink, Blue, Red & White)

## SOUTH CAROLINA.

CHARLESTON—*Winsboro Granite Co.
COLD POINT—*Cold Point Granite Co.
*Monteith, Walter S.
*South Carolina Granite Co.
HEATH SPRINGS—*Southern Granite Co.
RION—Beauchamp, R. L. & Co.
Hughes, Wm. P. (Polishing Works)
Rion Monumental Co.
Somaine, M. A.
Walling Granite Co.
*Winsboro Granite Corp.

## TEXAS.

HOUSTON—Gooch, A. L.

## VERMONT.

ADAMANT—*Patch & Co.
BARRE—*Abbiati & Colombo
Adie & Milne
*Allen & Newcombe
Anderson, A. & Sons
Appiani & Fraquelli
Barclay, A. & Co.
*Barclay Bros.
Barre Granite & Quarry Co.
*Barre Quarry Co.
*Barre White Granite Co.
Beck & Beck (Polishing)
Bessey Granite Co.
Bianchi, Chas., & Sons
Bond & Kidder
Boutwell, Milne & Varnum Co.
Brown, John
*Brusa Bros.
Bugbee, E. A.
Burke Bros.
Canton Bros.
Carle, E. W.
*Carroll Bros.
Carroll & McNulty
Carswell, Wetmore & Co.
*Chioldi Bros.
Clark Bros.
Cole, Wm. & Sons
Comolli & Co.
*Consolidated Quarry Co.
Cordiner, J. H.
Corskie, J. P. & Son
Cruickshank & Son
Cutter, Storer & Fay Granite Co.
Densmore, C. D.
*Dessureau & Co.
Dewey, Column Cutting Co.
Dinneen & Co.
Excelsior Granite Co.
Freeman & Wasgatt
Gallagher, L. B.
Gasparella Bros.
Giudici Bros. & Co.
Glysson, Eugene
Grearson & Lane
Harrison Granite Co. (Monumental & Mausoleum). (See New York)
Hoyt & Lebourveau
*Innes & Cruikshank
Jones, A. S.
*Jones Bros. Co.
Kenerson, Wm. T.
La Clair & McNulty
Leland, The, Co.
Littlejohn, Odgers & Milne
McColl & Carroll.
*McDonald & Cutler
McDonnell & Sons
McIver & Mathieson
McMillan, C. W., & Son
McMinn, John & Sons
Machi, Z. & Co.
*Manufacturers' Quarrying Co.
*Marr & Gordon
Marrion & O'Leary
Martell & Co.
Martinson Estate Granite Co.
Melcher & Hadley
Milne, Alex
More, C. H. & Co.
Moore Bros.
Mortimer & Hadden
Murray, J. F.
Mutch & Calder Granite Co.
North Barre Granite Co.
Novelli & Calcagni
Oliver & Co.
Parnogoni, Frank
Parry & Jones
Philips-Findlater Co.
Pirie, J. K.
*Presbrey-Coykendall Co.
Ream-McBee Co.
Rizzi Bros.
Robins Bros.
Ross & Ralph
Scott Bros.
Scott, C. R. & Co.
Sector, James, & Co.
Sievewright Co.
Smith Bros. Granite Co.
*Smith, E. L. & Co.
*Standard Granite Co.
Star Granite Co.
Stephen & Gerrard
Stevens & Denning
Straiton, George
Sullivan, Eugene
Thom, Clark & Co.
Walker, Geo. & Son
*Wells-Lamson Quarry
Woodcock Bros.
Young Bros.
BRATTLEBORO—Bailey, D. J.
*Grant, Chas. H., Granite Co.
Holbrook, Clifford M.
BRISTOL—McGee, Wm. N.
BURLINGTON—Burlington Granite Co.
Goodell, J. W.
Johnson Bros.
EAST BARRE—Billodeau, Joseph O.
D. B. L. Granite Co.
Sullivan, J. J.
EAST BURKE—*Burke Granite Co.
GRANITEVILLE—*Pirie, James K.
GROTON—Darling, J. R.
HARDWICK—American Granite Co.
Bailey & Rollins
Crystal Brook Granite Co.
Donald, W. B.
*Fletcher, E. R.
Jackson & Owen
James Granite Co.
Mack, H. R.
Northern Granite Co.
Smith, Ashley
Smith & Barter
Stewart Granite Works
Sullivan, J. E.
Union Granite Co.
*Woodbury Granite Co.
MONTPELIER—American Granite Co.
Bertoli, Harry J.
Bianchi G. R. Granite Co.
Bonazzi & Bonazzi
Bowers, R. C. Granite Co.
Brault & Sargent
Cary, F. S. & Co. (Granite & Statuary)
Caslane, S. (Carving & Statuary)
Columbian Granite Co.
Craven, E. E. & Co.
Dillon & Haley
Doucette Bros.
Gill, C. P. & Co.
Globe Granite Co.
Hill, Felix A.
Jellyman & Jones
Jurras, J. & Co.
Lillie, Dean K.
Mills & Co.
National Granite Co.
*Patch & Co.
Pioneer Granite Co.
Poulin Granite Co.
Robar, F. J. & Co.
Ryle & McCormick Co.
Sweeney Bros. Granite Co.
*Wetmore & Morse Granite Co.
MORRISVILLE—Mould & Davis
NEWPORT—Kingston, George
NORTHFIELD—Brusa & Griffin
Burns, J. L.
*Cross Bros.
*Ellis, E. B. Granite Co.
*Empire Granite & Quarry Co.
*Northfield Union Granite Co.
Phillips & Slack
RUTLAND—Clark, Jas. S.
Everson & Co.
Temple Bros. (Wholesale)
ST. JOHNSBURY—Laird, H. M.
Roy, Tancrede F.
Union Granite Co.
Walker, J. E.
SOUTH ROYALTON—Soper, W. V.
SOUTH RYEGATE—Anderson, A.
Cragie, James
Eliason & Roben
Farquharson, Robert
McDonald, Murdo F.
Morrison, D. A., & Co.
Rabaioli, Joseph

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SWANTON—Judd, Walter S.
WATERBURY—Blondin Granite Co.
Drew, Daniels Granite Co.
O'Clair & Anair
WEBSTERVILLE—*Doucett-Roleau Co.
*Libersont, George
WEST BERLIN—Davis Bros.
Provost, Stanley
WEST DANVILLE—Goss & Conly
WEST DUMMERSTON—*Bailey, D. J.
*Lyons, G. E., Granite Co.
WILLIAMSTOWN—Grearson-Becket Co.
WINDSOR—*Norcross Bros. Co. (Grey, Red & Green)
Kendall, Frank H.
*Windsor Green Granite Co.
WOODBURY—Brown & Reycroft

## VIRGINIA.

DINWIDDIE—**PETERSBURG GRANITE** Co. (Dimension & Building). (See adv. index, end of book)
GRANITE—*McGranighan, Patrick
*McIntosh, John
PETERSBURG—Burns & Campbell
RICHMOND—*Island Granite Co., Mayo Island
*James River Granite Co.
*Sunnyside Granite Co.
*Wray, Andrew J., 328 S Cherry

## WISCONSIN.

ABLEMAN—*Wisconsin Granite Co.
AMBERG—*Pike River Granite Co.
GRANITE HEIGHTS—Anderson Bros. & Johnson (Warsau Red)
LA CROSSE—Hynne-Benrud Granite Co.
MILWAUKEE—American Granite Co. (Wisconsin Mahogany)
Northside Granite & Marble Works, 1026 Walnut
Shaver, Jos. Granite & Marble Co., 506 7th
Sutter, H., Granite & Marble Co., 562
PLYMOUTH—Kegler, G. F. Muskego av
RACINE—*Portland Granite Co.
WATERLOO—*Portland Granite Co.
WAUSAU—Marathon Granite Co.

## Granite Sawing Machines

(See Machines, Stone Sawing)

## 4272—Granite (Seam Face)

Hingham Seam Face Granite Co., 161 Summer, Boston, Mass.
Holmesburg Granite Co., Phila., Pa.
**PENNA MARBLE & GRANITE CO.,** Penna bldg, Phila., Pa. (See adv. index, end of book)

## Graphaphone Mfrs.

(See Talking Machines)

## 4273—Graphite Boxes & Covers

**DIXON, JOS. CRUCIBLE CO. ("Dixon's," for Baking Carbons, etc.),** Jersey City, N. J. (See adv. index & branch offices, end of book)

## 4274—Graphite (Commutator)

**DIXON, JOS. CRUCIBLE CO., Jersey City, N. J.** (See adv. index & branch offices, end of book)

## 4275—Graphite (Electrotyping)

**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

## 4276—Graphite Miners & Refiners

Allen Graphite Co., Quenelda, Ala.
Asbury Graphite Mills (H. M. Riddle, Prop.), Asbury, N. J.
Chester Graphite Co., Chester Springs, Pa.
Crown Point Graphite Co., Glens Falls, N. Y.
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
Elk Graphite Milling Co., St. Marys, Pa.
Federal Graphite Co., Warren, O.
Holmes Fibre-Graphite Mfg. Co., 5155 Wakefield, Gtn., Phila., Pa.
International Acheson Graphite Co. ("Oildog", "Gredog" & "Aquadog"), Niagara Falls, N. Y.
Pacific Graphite Products Co., Seattle, Wash.
Pettinos Bros., Bethlehem, Pa.
Pioneer Graphite Co., Junction, Wis.
United States Graphite Co., Saginaw, Mich.
Wisconsin Graphite Co., Stevens Point, Wis.

## 4277— Graphite (Oiled)

**DIXON, JOS. CRUCIBLE CO. ("Dixon's"),** Jersey City, N. J. (See adv. index & branch offices, end of book)

## 4278— Grapples (Timber)

Evart Tool Co. (Ltd.), Evart, Mich.

## 4279— Grate Bar Mfrs.

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Arnold-Creager Co., New London, O.
Barker, Jas. ("Barker"), 6th & Tioga, Phila., Pa.

Mfgrs. Specialists
**JAMES BEGGS & C**

(Stationary: Shaking & Dumping Grates for All Kinds of Fuel), Liberty & Church, New York

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Birmingham Boiler Works, Birmingham, Ala.
Borger Bros. Co., Columbus, O.
Bowler Foundry Co. ("Kerstine"), Cleveland, Ohio
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Bruce-Macbeth Engine Co. ("Aetna"), Cleveland, O.
Bushnell, Jno. S. & Co., 174 Fulton, New York
**CANTON FOUNDRY & MACHINE CO.** Canton, O. (See adv. index, end of book)
Casey-Hedges Co. (Hollow Blast Shaking, etc.), Chattanooga, Tenn.
Co-operative Foundry Co., Detroit, Mich.
Crowder Bros., 408 Olive, St. Louis, Mo.
Cyclone Grate Bar Co. ("Cyclone" Shaking & Dumping), Buffalo, N. Y.
Daugherty Foundry Co. ("Tupper," "Adams" & Circle Grate for Vertical Boilers), Allentown, Pa.
DeVed & Sons Sash Weight Co., Baltimore, Md.
**DOBBIE FOUNDRY & MACHINE CO.** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Dorrance, Chas. A., 138 Jackson blvd, Chicago, Ill.
Downey Heating & Supply Co., Milwaukee, Wis.
Eagle Foundry & Machine Co. (Plain, Hollow Blast & Rocking), Fort Scott, Kans.
Eastwood Wire Mfg. Co., Belleville, N. J.
Economic Engineering & Construction Co. ("Sharps"), Monadnock blk, Chicago, Ill.
Erie Engine Works (Shaking, Dumping & Stationary), Erie, Pa.
Estabrook's, R. Sons, 204 W 1st, Boston, Mass.
Eureka Heating & Ventilating Co. (C. W. Light, Prop.) (Rocking), Saginaw, Mich.
Farris, Jos., Springfield, Ill.
Ferguson, F. & Son, Hoboken, N. J.
Foster, F. W. Mfg. Co. (Shaking & Rocking), 99 Haverhill, Boston, Mass.
Fox's, Benj. Sons, 513 W 34th, New York
Frick, Horace E. Co. ("Fricks," Wire Sectional Tupper or Herringbone), Lebanon, Penn.
Frost Mfg. Co. (Rocking, etc.), Galesburg, Ill.
Gehl Bros. Mfg. Co., West Bend, Wis.
Gibson Iron Works Co. (Common Sense, Dumping, etc.), 170 1st, Jersey City, N. J.
**GODFREY-KEELER CO. (All** Kinds), 70 Warren, New York. (See adv. index, end of book)
Gordon Hollow Blast Grate Co. ("Tuyere," Hollow Blast), Greenville, Mich.
Grainger & Co., Louisville, Ky.
Green Engineering Co., 115 Adams, Chicago, Ill.
Gulickson, Geo., 330 Milwaukee av, Chicago, Ill.
Hanchett Hot Blast Grate Co. ("Hanchett" Hot Blast), Big Rapids, Mich.
Hayes, Jno. A. Foundry Co., Lynn, Mass.
Helmick Foundry & Machine Co. (Furnace), Fairmont, W. Va.
Heatherington & Berner, Indianapolis, Ind.
Houston, A. Co., 123 Liberty, New York
Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
Iron City Grate Bar Co., Warren, O.
Janney & Co., Montgomery, Ala.
Jarvis Engineering Co. (Sheffield), Boston, Mass.
Kahl, Frederick, 537 Atwater, Detroit, Mich.
Kelly Foundry & Machine Co., Goshen, Ind.
**KEWANEE BOILER CO. ("Century"),** Kewanee, Ill. (See adv. index & branch offices, end of book)
Kramer Bros. Foundry Co., Dayton, O.
Kugler & Shane, Baltimore, Md.
**KUTZTOWN FOUNDRY & MACHINE** Co., 116 N Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Lippincott Steam Specialty & Supply Co. ("Lippincott" Shaking), Newark, N. J.
Litchfield Foundry & Machine Co., Litchfield, Ill.
Long Grate Bar Co., Buffalo, N. Y.
Love Bros. (Inc.), Aurora, Ill.
McClave-Brooks Co. (Shaking), Scranton, Pa.
McClave Grate Bar Co. ("Ellis" Improved Sectional "McClave" Shaking & Dumping Cut Off), 36 Warren, New York
McKenzie Furnace Co., 84 Van Buren, Chicago, Ill.
McNaughton Foundry (Sectional), Maryville, Tenn.
**MacKINNON BOILER & MACHINE** Co. ("Peerless"), Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co., Cleveland, O.
Martin Grate Co. ("Martin," Anti-Friction Rocking), Fisher bldg., Chicago, Ill.
Mather, E. Harrisburg, Pa.
Mechanics' Iron Foundry Co. ("Bannister"), 38 Kemble, Boston, Mass.
Mershon Patent Shaking Grate Works, 1203 Filbert, Philadelphia, Pa.
Metropolitan Iron Foundry ("Dempsey's," "Phenix"), 548 W 55th, New York
Meyers, Otto C. & Co., 30 Franklin, Brooklyn, N. Y.
Miller Oil & Supply Co. ("Perfection" Hollow Blast), Indianapolis, Ind.
Mosher Mfg. Co., Dallas, Tex.
Munroe, R. & Sons Corp., Pittsburg, Pa.
Murray Iron Works Co. (Plain & Rocking), Burlington, Iowa
Myrick Machine Co., Olean, N. Y.
Neemes Bros. (Self Cleaning), Troy, N. Y.
New Brunswick Refrigerating, New Brunswick, Va.
New England Roller Grate Co. (All Types), Springfield, Mass.
Niver Iron Works Co., Muscatine, Ia.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Old Dominion Marine Ry. Corp., Berkley, Va.
Patch, S. B. & Sons Co. ("Patch" Rocking), Streator, Ill.
Perfection Grate Co., Springfield, Mass.
**PITTSBURGH VALVE, FOUNDRY & CON**struction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Portland Co., Portland, Me.
Price-Evans Foundry Co., Chattanooga, Tenn.
Robertson, Jas. L. & Son (Inc.) ("Common Sense"), 78 Murray, New York
Robson, Chas. & Co. (Plain, Circular, Interlocking, etc.), 8th & Washington av, Phila., Pa.
Rosedale Foundry & Machine Co. ("Playford," "Pittsburg"), Pittsburg, Pa.
Rutzler, E. Co., 404 E 49th, New York
Salamander Grate Bar Co. ("Salamander," "Aetna," "Steele," "Ryder" & "Rogers"), 126 Liberty, New York


# Grate Bars

**Rocking and Dumping and Stationary Grates of All Kinds for Any Type Boiler. Shaking Grates for Vertical Boilers.**

**GODFREY-KEELER CO.,** 70 Warren Street NEW YORK


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Scranton Steam Pump Co. ("Scranton" Shaking, etc.), Scranton, Pa.
Scott-Madden Iron Works Co. (Brick Mfrs., etc.), National Bank bldg, St. Louis, Mo.
Smith Iron Foundry, Lynn, Mass.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Stowell Mfg. & Foundry Co. ("Hall's" Patent), S. Milwaukee, Wis.
Thacher, Geo. H. & Co. ("Coe" Sectional, Dumping also Stationary), Albany, N. Y.
Thomas Grate Bar Co. ("Thomas" Elliptic), Birmingham, Ala.
Thompson, Richard & Co. ("Shear-Klean" Anti-Clinker Rocking, "Aetna" Shaking, "Thompson's" Dumping, "Thompson's" Sectional & "Steel's" Revolving, Shaking & Dumping Grates), 126 Liberty, New York
**THROPP'S, JOHN E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Toledo Foundry & Machine Co., Toledo, O.
Townsend Furnace & Machine Shop Co., Albany, N. Y.
Treadwell, M. H. Co. ("Treadwell" Shaking, etc.), 90 West, New York; Works: Lebanon, Pa.
Tupper, W. W. & Co. (Shaking Grates & Grate Bars), 90 West, New York
Valley Iron Works ("Ajax," "Rocking," "Tupper," Circular), Williamsport, Pa.
Variety Iron & Steel Works Co., Cleveland, O.
Washburn & Granger ("Dean"), 50 Church, New York
Water Arch Furnace Co., 164 Dearborn, Chicago, Ill.
Wetherill, Robt. & Co. (Inc.), Chester, Pa.
White, J. L. (Hollow Blast Rocking), West Allis, Wis.
Willoughby, Alfred B. ("Willoughby-St. John" Shaking), Bourse bldg, Phila., Pa.
Yingling, C. & Son (Shaking), 150 B'way, New York

## 4280— Grate Settings

**MAURER, HENRY & SON ("Liverpool"), 420 E 23d, New York, & Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. Front Inside Cover)**

## Graters (Apple)

(See Apple Grating Machines)

## 4281—Graters (Horse Radish)

**Ames Plow Co., Boston, Mass.**
**Day, J. H., Cincinnati, O.**
**Enterprise Mfg. Co., Phila., Pa**
Houchin, Thos. W. Co., 318 B'way, New York
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Kelso & Co., 557 W Quincy, Chicago, Ill.
Schroeter Bros. Hardware Co. ("Schroeter's" Power), 717 Wabash av, St. Louis, Mo.
**Smith's, Jno. E. Sons Co., Buffalo, N. Y.**

## 4282— Graters (Nutmeg)

**Caldwell Mfg. Co. ("Gem"), Rochester, N. Y.**
**Edgar Mfg. Co., Reading, Mass.**
Franklin Specialty Co. ("Marvel" Rotary), Reading, Pa.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hamblin & Russell Mfg. Co. ("Unique", "Yankee", "New Rapid"), Worcester, Mass.
Handy Things Co., Ludington, Mich.
Saal, H. G., 4410 W. Ravenswood pk, Chicago, Ill.

## 4283— Grates (Cellar)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Comstock, Geo. S., Mechanicsburg, Pa.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Mesker & Bro., 421 S 6th, St. Louis, Mo.

## Grates (Dumping)

(See Grates, Shaking & Dumping)

## 4284—Grates, Fenders & Mantels

(See also Fireplace Furnishings)

**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 4285— Grates (Gas, Parlor)

American Stove Co. ("Reliable," "New Process," "Quick Comfort"), St. Louis, Mo.
**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)
Rathbone Fire Place Mfg. Co., Grand Rapids, Mich.
Superior Mfg. Co., N S, Pittsburg, Pa.

## Grates (Hollow Blast)

(See Grate Bar Manufacturers)

## Grates (Rocking)

(See Grate Bar Manufacturers with word "Rocking" following names)

## 4286—Grates (Shaking & Dumping)

(See also Grate Bar Manufacturers)

Baker Machine Co. ("National" Shaking), Trenton, N. J.

Mfgrs. Specialists
**JAMES BEGGS & CO.**
(Shaking: Dumping Grates for All Kinds of Fuel), Liberty & Church, New York

Bruce-Macbeth Engine Co. ("Aetna"), Cleveland, O.
Casey-Hedges Co., Chattanooga, Tenn.
Cyclone Grate Bar Co. ("Cyclone"), Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.** ("Niagara," Shaking), Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Donegan & Swift ("Swift's Economy"), 6 Murray, New York
Economic Engineering & Construction Co. ("Sharp"), Monadnock blk, Chicago, Ill.
Empire Grate Co., Chester, Pa.
Erie City Iron Works, Erie, Pa.
Erie Engine Works (and Stationary), Erie, Pa.
Foster, F. W. Mfg. Co., 99 Haverhill, Boston, Mass.
Frick, Horace E. Co. ("Frick" Shaking & Dumping Grate Surface, etc.), Lebanon, Pa.
Gibson Iron Works Co. ("Common Sense" Dumping), Jersey City, N. J
**GODFREY-KEELER CO., 70 Warren, New York.** (See adv. index, end of book)
Herrick, Geo. S. (Shaking), Syracuse, N. Y.
Houston, A. Co., 123 Liberty, New York
Kelly Foundry & Machinery Co., Goshen, Ind.
**KEWANEE BOILER CO. ("Century"),** Kewanee, Ill. (See adv. index & & branch offices, end of book)
**KUTZTOWN FOUNDRY & MACHINE Co., 116 N Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)**
Lippincott Steam Specialty & Supply Co. ("Lippincott" Shaking), Newark, N. J.
Long Grate Bar Co., Buffalo, N. Y.
McClave-Brooks Co. (& Cut-Off), Scranton, Pa.
McClave Grate Bar Co., 36 Warren, New York
McKenzie Furnace Co. (Locomotive Shaking), 84 Van Buren, Chicago, Ill.
Martin Grate Co. ("Martin" Anti-Friction Rocking), Fisher bldg, Chicago, Ill.
Mershon Patent Shaking Grate Works, 1203 Filbert, Phila., Pa.
Metropolitan Iron Foundry Co., ("Phenix"). 548 W 55th, New York
Myrick Machine Co., Olean, N. Y.
Neemes Bros., Troy, N. Y.
New Brunswick Refrigerating Co., New Brunswick, N. J.
New England Roller Grate Co., Springfield, Mass.
Perfection Grate Co., Springfield, Mass.
Portland Co. ("Hamlin" Rocking & Dumping), Portland, Me.
Quinn & Co., Cincinnati, O.
Robson, Chas & Co. ("Tupper-Herringbone," "Ajax" Rocking), 8th & Wash'n av. Phila., Pa.
Salamander Grate Bar Co. ("Aetna"), 126 Liberty, New York
Scranton Steam Pump Co. ("Scranton"), Scranton, Pa.
Superior Iron Works Co., Superior, Wis.
Thacher, Geo. H. & Co. ("Coe" Sectional Shaking & Dumping Cut-Off), Albany, N. Y.
**Thompson, Richard & Co. ("Aetna"), 126 Liberty, New York**
**Treadwell, M. H. Co. ("Treadwell"), 90 West, New York; Works, Lebanon, Pa.**
Valley Iron Works ("Ajax" Shaking), Williamsport, Pa.
Washburn & Granger ("Dean"), 50 Church, New York
Wetherill, Robt. & Co. (Inc.), Chester, Pa.
Willoughby, Alfred B. ("Willoughby-St. John" Shaking), Bourse bldg, Phila., Pa.
Yingling, C. & Son (Double Acting Shaking), 150 B'way, New York

## 4287—Grates (Traveling Link)

Babcock & Wilcox Co., 85 Liberty, New York
Crowe, Paul L., Jersey City, N. J.
Erie Foundry Co., Erie, Pa.
Green Engineering Co., 115 Adams, Chicago, Ill.
Weir & Craig Mfg. Co. ("Chicago"), 2439 Wallace, Chicago, Ill.

## 4288—Grates (Ventilating, Fireplace)

**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)

## 4289—Gravel Washing & Screening Plants

Buckbee, J. C. Co., 164 Dearborn, Chicago, Ill.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

## 4290— Grease (Axle)

Advance Grease & Chemical Co. ("Advance"), Jackson, Mich.
Baum's Castorine Co. ("Castorine" Axle Oil), Rome, N. Y.
Brooks Oil Co., Cleveland, O.
Canton Lubricator Mfg. Co. ("Century"), Canton, O.
Climax Refining Co., Cleveland, O.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's"** Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
Fiske Bros. Refining Co., 24 State, New York
Frazer Lubricator Co., 111 W Michigan, Chicago, Ill.
Freedom Oil Works Co., Freedom, Pa.
Galena Axle Grease Co., Galena, Ill.
Great Western Oil Co. ("Great Western"), 2855 E 37th, S E, Cleveland, O.
Harbaugh Co. ("Grapho"), Columbus, Ohio
Hisgen Bros. (Inc.) ("Four Bros."), Albany, N. Y.
Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
Islay, Doubleday & Co., 229 Front, New York
**INDIAN REFINING CO. ("Blue Grass,"** Dark or Light), 123 William, New York. (See adv. index & branch offices, end of book)
Johnson, F. C., Stillman Valley, Ill.
Monitor Oil Co., Cleveland, O.
Moore, Chas. H. Oil Co., Cincinnati, O.
National Refining Co., Cleveland, O.
Reliance Oil & Grease Co. ("Mecca", World), Cleveland, O.
**Richardson Lubricating Co., Quincy, Ill.**
**Shining Light Mfg. Co., Buffalo, N. Y.**
**Smith & Nichols, 48 South, New York**
**Snow Flake Axle Grease Co. (Also Coach Oil), Fitchburg, Mass.**
**Someborn's, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York**
**Standard Oil Co. of New York, 555 W 25th, New York**
**Stuart, D. A. & Co. (Inc.), 350 E Illinois, Chicago, Ill.**
**Swan & Finch Co., 151 Maiden la, New York**
Texas Company ("Texaco"), 7 Battery pl, New York
Warren Specialty Co., Warren, Pa.
**Winn, Wm. R. ("Winn" also Axle Oil), 143 Maiden lane, New York, & Springfield, Mass.**
**World Refining Co. ("Phillips' World." "Black Diamond"), Easton, Pa.**
Zurn, O. F. Co. ("Zurn's"), Broad & Lehigh, Phila., Pa.

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## 4291—Grease (Cable & Elevator Shaft)

**Canton Lubricator Mfg. Co., Canton, O.**
**Climax Refining Co.** ("Cable Compound"), Williamson bldg. Cleveland, O
**LESCHEN, A. & SONS ROPE CO., 920** 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
**United States Graphite Co., Saginaw, Mich.**

## 4291a—Grease (Disc Grinder)

**Gardner Machine Co.** ("Gardner"), **Beloit, Wis.**

## Grease Extractors

(See Oil & Grease Extractors)

## 4292— Grease (Graphite)

**DIXON, JOS. CRUCIBLE CO. ("Dixon's," for Open Bearings on Spindles, Shafting, etc.), Jersey City, N. J.** (See adv. index & branch offices, end of book)
Harris, A. W. Oil Co. ("Harris"), Providence, R. I.
International Acheson Graphite Co., Niagara Falls, N. Y.
National Refining Co., Cleveland, O.
Sonneborn's, L. Sons (Inc.), 262 Pearl, New York
United States Graphite Co., Saginaw, Mich.

## 4293— Grease Guns

**DELTA MFG. CO., Bloomfield, N. J.**
Rubly Mfg. Co. ("Tuckahoe"), Tuckahoe, N. Y.

## 4294—Grease (Wire Drawing)

Climax Refining Co., Cleveland, O.
Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 4295—Green House Builders

**Bickelhaupt, Geo. Skylight Works, 243 W 47th,**
**Dillon, J. L., Bloomsburg, Pa.** New York
Hitchings & Co., 1170 B'way, New York.
**Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.**
**Lord & Burnham Co., 1133 B'way, New York**
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**National Skylight & Construction Co., Culver av, Jersey City, N. J.**
National Ventilating Co., 337 E 26th, New York
Payne, John A., Jersey City, N. J.
**Pierson U Bar Co., 1 Madison av, New York**
**Rendle, Arthur E., 18 W 34th, New York**
**SCHREIBER, L. & SONS CO. 8th & Eggleston av, Cincinnati, O., 1133 B'way, New York.** See adv. index & branch offices, end of book)
Scollay, John A. (Est. of), 74 Myrtle av, Brooklyn, N. Y.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book)
**Thomson, Robert & Co., St. Louis Mo.**
**Weathered Co., Orient & West End avs, Jersey City, N. J.**

## 4296—Green House Materials

(See also Sash, Greenhouse & Hot Bed)

**Hitchings & Co., 1170 B'way, New York**
**Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.**
**Lord & Burnham Co., 1133 B'way, New York**
**Metropolitan Material Co., 1398 Metropolitan av, Brooklyn, N. Y.**
**Pierson U Bar Co., 1 Madison av, New York**
**Selden Cypress Door Co., Palatka, Fla.**
**Stearns, A. T., Lumber Co., Neponset, & 166 Devonshire, Boston, Mass.**
**Struck, Alfred Co., Louisville, Ky.**

## Green House Tables, Etc. (Slate)

(See Slate Stair Treads & Risers)

## Green House Ventilating Appliance

(See Ventilating Apparatus for Greenhouse & Buildings)

## 4297— Grenades (Hand)

Hardin Hand Grenade Fire Extinguisher Co., 6213 Wentworth, Chicago, Ill.
**Hayward, S. F. & Co., 39 Park pl, New York**
**Meyerose Lantern Co., St. Louis, Mo.**
**Nutting Fire Extinguisher & Mfg. Co., Minneapolis, Minn.**
**Stahl, Geo. H., Quincy, Ill.**

## 4298— Griddles

**Adams Co., Dubuque, Ia.**
**Advance Mfg. Co., Racine Junction, Wis.**
**American Electric Heater Co.** (Electric), Detroit, Mich.
Avery Stamping Co., Cleveland, O.
Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.
Cheney, S. & Son, Manlius, N. Y.
Cleveland Stamping & Tool Co. (Bailed & Handled), Cleveland, O.
Griswold Mfg. Co., Erie, Pa.
**Lalance & Grosjean Mfg. Co., 299 B'way, New York**
New York Stamping Co. ("Empire" Steel), N 11th & Berry, Brooklyn, N. Y.
Sidney Hollowware Co., Sidney, O.
**Stuart & Peterson Co., Burlington, N. J.**
**Sturges & Burn Mfg. Co.** (Steel), 249 S. Green, Chicago, Ill.
Van Etten, Frank M., Buffalo, N. Y.
Wagner Mfg. Co., Sidney, O.
Wapak Hollowware Co., Wapakoneta, O.

## 4298a—Griddles (Soapstone)

Alberene Stone Co., 223 E 23d, New York
Asbestine Stone Co., Boston, Mass.
Old Dominion Soapstone Co., Esmont, Va.
Phoenix Soapstone Co., 116 Nassau, New York
Pike Mfg. Co., Pike Station, N. H.
Union Soapstone Co., Boston, Mass.
Vermont Soapstone Co., Perkinsville, Vt.
Virginia Soapstone Co., Schuyler, Va.

## 4299—Grille, Fret & Lattice Work

(See also Grille & Fret Work, for the Trade Only)

**American Parquetry Floor Co., 1124 Walnut, Phila., Pa.**
**ARCHITECTURAL DECORATING CO., Chicago, Ill.** (See adv. index, end of book)
Bertelsen, Jesse T., 619 S Clinton, Chicago, Ill.
**Bossert, Louis & Son, Grand st & Newtown Creek, Brooklyn, N. Y.**
Boynton & Co., 1725 Dickson, Chicago, Ill.
**Buffalo Grille Co., 270 Court, Buffalo, N. Y.**
**Chicago Embossed Moulding Co., 1339 Clybourn pl, Chicago, Ill.**
**Chicago Mill Work & Supply Co., 967 W 20th, Chicago, Ill.**
Cleveland Grille & Mfg. Co. (Adjustable Grilles), Cleveland, O.
Cleveland Hardwood Floor Co., Cleveland, O.
**DECORATORS' SUPPLY CO., Archer av, c Leo, Chicago, Ill.** (See adv. index & branch offices, end of book)
**Frey, J. W., 539 S B'way, Los Angeles, Cal.**
**Grand Union Grille Works, 3422 W Lake, Chicago, Ill.**
**Heaton & Wood, 1706 Chestnut, Phila., Pa.**
**Hyde-Murphy Co., Ridgeway, Pa.**
**Inlaid Floor Co., 398 Eddy, San Francisco, Cal.**
**Kalamazoo Grille Co., Kalamazoo, Mich.**
**Keddy Grille Co., Detroit, Mich.**
**Lidell, Wm. C., 597 Austin av, Chicago, Ill.**
**Lorenzen, Chas. F. & Co., 717 N Ashland av Chicago, Ill**
McIntosh, Alex., 21 E 20th, New York
Milmine, H. B. & Co., Toledo, Ohio
**Nelson, Chas., 1939 W Lake, Chicago, Ill.**
**New York Carved Moulding Co., Third av & 139th, New York**
**Nybet Cabinet Co., 27th & Halsted, Chicago**
**Pasadena Mfg. Co., Pasadena, Cal.** Ill
**Roach & Musser Sash & Door Co.** (Wholesale & Retail), Muscatine, Is
Smith, John A. Floor Co., Los Angeles, Cal.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book
Syracuse Screen & Grille Co., North Manchester, Ind
Terwilliger Mfg. Co., 11 W 30th, New York
**Waddell Mfg. Co., Grand Rapids, Mich.**

## 4300—Grille or Fret Work (for the Trade Only)

Cream City Sash & Door Co. (For the Trade Only), Milwaukee, Wis
Curtis Bros. & Co., Clinton, Ia.
Curtis, Towle & Paine Co., Lincoln, Neb.
Curtis & Yale Co., Wausau, Wis.
Disbrow, M. A. & Co., Lyons, Ia.
Foster-Munger Co., W 20th & S Sangamon, Chicago, Ill.
Gauger, John A. & Co., W 22d & Laflin, Chicago, Ill.
Gould Mfg. Co., Oshkosh, Wis.
Harris & Cole Bros., Cedar Falls, Ia.
Morgan Co., Oskosh, Wis
Peirce, W. E. & Co., Milford, N. H.
Roberts, E. L. & Co., W 22d & Union, Chicago, Ill.
Rock Island Sash & Door Works, Rock Island, Ill.

## 4301—Grilles (Brass & Bronze)

(See also Bank & Office Railings)

**Balderston, H. & Son, 319 Pearl, Baltimore, Md.**
**Baldwin Brass Works, 525 W Van Buren, Chicago, Ill.**
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE Works, Detroit, Mich.** (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO. (Bronze** Only), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buckley-Hart Mfg. Co., Detroit, Mich.
**CABARET, PAUL E. & CO., 120 11th** av, New York. (See adv. index, end of book)
Champion Iron & Wire Works, Omaha, Neb.
**CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill.** (See adv. index, end of book)
**Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.**
Cleveland Art Metal Co., Cleveland, O.
Columbia Iron & Wire Works Co., Canton, O.
**COLUMBUS WIRE & IRON WORKS Co., Columbus, O.** (See adv. index, end of book)
**DARBY, EDW'D & SONS CO. (Brass), 239 Arch, Phila., Pa.** (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT** Works, Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Gaumer, J. L. Co., 22d & Wood, Phila., Pa.
**GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York;** Works: Providence, R. I. (See adv. index, end of book)
**HANKE IRON & WIRE WKS., 2550 Fillmore, Chicago, Ill.** (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
Hecla Iron Works, 118 N 11th, B'klyn, N. Y.
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end
Herzog Iron Works, St. Paul, Minn. of book)
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Jamestown Window Screen Co., Jamestown, N. Y.
Janusch Mfg. Co., 481 E 140th, New York
Manhattan Brass Co., 338 E 28th, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Midland Metal Co. (Inc.), 21st & Jefferson.
Milmine, H. B. & Co., Toledo, O. Phila., Pa.
**Mott, J. L. Iron Works, 118 5th av. New York**
National Mfg. Co., Worcester, Mass.
**PITT, WM. R. COMPOSITE IRON** Works, 136-138 W 24th, New York. (See adv. index, end of book)
Queen City Wire Works, Buffalo, N. Y.
Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y. City
**SCHREIBER, L. & SONS CO. 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York.** (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Snow Wire Works Co., Rochester, N. Y.
Sommerville Iron & Bronze Co., Pittsburg, Pa.
**SNEAD & CO. IRON WORKS, Jersey City, N. J.** (See adv. index, end of book)

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**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Syracuse Wire Works, Syracuse, N. Y.
**TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa.** (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
**TUTTLE & BAILEY MFG. CO., 83** Beekman, New York. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See adv. index & branch offices, end of book)
Van Doorn Co., Quincy, Ill.
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
Wells Architectural Iron Co., 219–221 E 144th, New York
Williams, John, 556 27th, New York
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 4302—Grilles (Spring Hinges for)

**BOMMER SPRING HINGES**

**257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)**

## 4303—Grilles (Wrought Iron)

(See also Iron, Architectural & Ornamental)
**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
**COLUMBUS WIRE & IRON WORKS** Co., Columbus, O. (See adv. index, end of book)
**DARBY, EDWARD & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**FOREST CITY STEEL & IRON CO.,** 110th nr Detroit av, Cleveland, O. (See adv. index, end of book)
**HANKE IRON & WIRE WKS., 2550** Fillmore, Chicago, Ill. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**LANDON, E. R. IRON & WIRE** Works, 166 N May, Chicago, Ill. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works, 136-138 W 24th, New York. (See adv. index, end of book)
**REMPPIS, WM. F. CO., Reading, Pa.,** & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
**RIESECK, P., Allegheny av & Re**becca, N S, Pittsburg, Pa. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO. 8th & Eg**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**SMITH, F. P., WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, Jersey** City, N. J. (See adv. index, end of book)
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa.** (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O. &** 11 B"way New York. (See adv. index & branch offices, end of book)
**TUTTLE & BAILEY MFG. CO. (Also** Cast Iron), 83 Beekman, New York. (See adv. index, end of book)
**UNION FOUNDRY WORKS, 38 S** Dearborn, Chicago, Ill. (See adv. index, end of book)
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 4304—Grinders (Band Saw)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Berlin Machine Works, Beloit, Wis.
Filer & Stowell Co., Milwaukee, Wis.
Lake Shore Engine Works, Marquette, Mich.
Wickes Bros., Sagnaw, Mich.

## 4305— Grinders (Bench)

Baldwin, Tuthill & Bolton (Also Combination Bench Grinders & Saw Gummers), Grand Rapids, Mich.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Buffalo Emery Wheel Co., Buffalo, N. Y.
Carroll-Jamieson Machine Tool Co. (Bench Grinder & Polisher), Batavia, O.
Central Machine Works Co. (Double Grinder), Minneapolis, Minn.
Clark, Jas., Jr., Electric Co., Louisville, Ky.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth.
Cutter-Wood Supply Co., Boston, Mass. Ind.
Diamond Machine Co., Providence, R. I.
El Starr Mfg. Co. ("Perfection", Cut Gear Grinders), Milwaukee, Wis.
Faneuil Watch Tool Co. (Fast Speed Internal), 1 Brooks Br., Boston, Mass.
**FREVERT MACHINERY CO., 18** Dey, New York. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Hall & Brown Woodworking Machine Co., St. Louis, Mo.
Luther Bros. Co. ("Trojan," "Electric Diamond," "Bull Dog," "Eclipse," "Best Maide," Ball Bearing), Milwaukee, Wis.
North Wales Machine Co., Inc. ("North Wales"), North Wales, Pa.
Norton Grinding Co., Worcester, Mass.
Partridge, Edw. O. ("Partridge"), 2047 Lake.
Ransom Mfg. Co., Oshkosh, Wis. Chicago, Ill.
Rivett Lathe Mfg. Co. (Fast Speed Internal) Brighton, Boston, Mass
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offices, end of book)
Safety Emery Wheel Co., Springfield, O.
Springfield Mfg. Co., Bridgeport, Conn.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Stow Mfg. Co. (Electric), Binghamton, N. Y.
Superior Corundum Wheel Co., Waltham, Mass.
Vitrified Wheel Co., Westfield, Mass.
Webster & Perks Tool Co. (Self-Oiling), Springfield, O.
Wells, F. E. & Son Co., Greenfield. Mass.
Wood, A. A. Sons Co. ("Atlanta", Tool Grinders), Atlanta, Ga.

## 4306—Grinders (Car Wheel)

Bridgeport Safety Emery Wheel Co. (Cup Only), Bridgeport, Conn.
Q. M. S. Co. (For Street Car Wheels), Plainfield, N. J.
Springfield Mfg. Co., Bridgeport, Conn.

## 4307— Grinders (Center)

(See also Pneumatic Center Grinders)
Clark, Jas. Jr. Electric Co. (Electrically Driven), Louisville, Ky.
Diamond Machine Co. ("Simplex"), Providence, R. I.
Gem Mfg. Co. ("Gem" Flexible Shaft), Pittsburg, Pa.
Leland, Wm. H. & Co., Worcester, Mass.
Stow Mfg. Co. (Flexible Shaft), Binghamton, N. Y.
**WILMARTH & MORMAN CO. (Lathe),** Grand Rapids, Mich. (See adv. index, end of book)

## 4308— Grinders (Chisel)

Millers Falls Co., 28 Warren, New York
Stearns, E. C. & Co., Syracuse, N. Y.

## 4309—Grinders (Chuck Work)

Bryant Chucking Grinder Co. ("Bryant", Multiple Wheel Grinders), Springfield, Vt.

## 4310— Grinders (Cinder)

Eastern Machinery Co. ("Hill", Improved), New Haven, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.

## 4311— Grinders (Cock)

Automatic Valve Grinding Machine Co. (Automatic), Knoxville, Tenn.
Milwaukee Cock Grinder Co. ("Milwaukee"), Layton Park, Milwaukee, Wis.
Pratt & Whitney Co., Hartford, Conn.
Turner Machine Co. (Automatic), 3632 N Lawrence, Phila., Pa.
Warner & Swasey Co., Cleveland, O.

## 4312— Grinders (Crank)

Landis Tool Co. (Cylindrical), Waynesboro, Pa.

## 4313—Grinders (Cup, Cone & Hub)

Bridgeport Safety Emery Wheel Co. (Cup Only), Bridgeport, Conn.
Norton Co., Worcester, Mass.
Pratt & Whitney Co., Hartford, Conn.
Springfield Mfg. Co., Bridgeport. Conn.

## 4314—Grinders (Curd, for Dairies)

United States Brake Shoe Co., White bldg, Buffalo, N. Y.

## Grinders (Cutter)

(See Grinders, Reamer & Cutter)

## 4314a— Grinders (Cylinder)

**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
**PRENTISS TOOL & SUPPLY CO., 115 Lib**erty, New York. (See adv. index & branch offices, end of book)

## 4315— Grinders (Die)

**BIGNALL & KEELER MFG. CO.** ("B. & K."), Edwardsville, Ill. (See adv. index, end of book)

## 4316— Grinders (Disc)

Besly, Chas. H. & Co. ("Helmet" Spiral & Modern), 124 N Clinton, Chicago, Ill.
Born, J. C. & Bro. ("Crescent"), Belleville, Ill.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Calkins Co. ("Advance"), Los Angeles, Cal.
Chicago Saw Sharpening Machinery Co. ("Chicago"), 30 W Erie, Chicago, Ill.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth.
Crescent Machine Co., Leetonia, O. Ind.
Diamond Machine Co. ("Gorton" Universal), Providence, R. I.
Dodge Mfg. Co., Mishawaka, Ind.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Gardner Machine Co. ("F. N. Gardner's Improved for Metals; also "F. N. Gardner's" Improved for Pattern Making), Beloit, Wis.
Heald Machine Co., Worcester, Mass.
Haystradt & Case, Kingston, N. Y.
Luther Bros. Co. ("Luther's" Foot Power Grinders with Disc Attachment), Milwaukee, Wis.
O. K. Tool Holder Co., Shelton, Conn.
Ransom Mfg. Co., Oshkosh, Wis.

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Rowbottom Machine Co. (Double), Waterville, Conn.
Taylor & Fenn Co., 54 Arch, Hartford, Conn.
Valley City Machine Works (Combination Tool, Disc & Surface Grinders), Grand Rapids, Mich.
Western Implement Co., Port Washington, Wis.

## 4317– Grinders (Drill)

Cincinnati Electrical Tool Co., Cincinnati, O.
El Star Mfg. Co. ("Godfrey"), Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Heald Machine Co. ("American", Twist Drill), Worcester, Mass.
Ideal Machine Works (Ideal Twist Drill), 257 39th, Brooklyn, N. Y.
Luther Bros. Co. ("Diamond" Twist Drill), Milwaukee, Wis.
Manning, Maxwell & Moore ("Dahl"), 85 Liberty, New York
Niles-Bement-Pond Co., 111 B'way, New York
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Robinson Tool Works (Twist Drill), Waterbury, Conn.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
Slate, Dwight Machine Co., Hartford, Conn.
Washburn Shops of the Polytechnic Institute ("Worcester"), Worcester, Mass.
**WILMARTH & MORMAN CO. ("New** Yankee"), 585 Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 4318– Grinders (Edging)

(See also Mills, Bark)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Bartlett, A. F. & Co., Saginaw, Mich.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Diamond Machine Co., Providence, R. I.
Filer & Stowell Co., Milwaukee, Wis.
Mitts & Merrill, Saginaw, Mich.
Safety Emery Wheel Co., Springfield, O.
Union Iron Works, Bangor, Me.
Wickes Bros. (Also Slab & Lap), Saginaw, Mich.

## Grinders (Electric, Portable)

(See Grinders, Portable with Word "Electric" Following the Name)

## 4319– Grinders (Emery)

Barnes, W. F. & John Co. ("Barnes" Water), Rockford, Ill.
Bath Grinder Co. ("Universal"), Fitchburg, Mass.
Blake & Johnson Co. ("Waterbury"), Waterbury, Conn.
Born, J. C. & Bro. ("Crescent"), Belleville, Ill.
Buffalo Specialty Co. ("Success"), Buffalo, N. Y.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Chicago Wheel & Mfg. Co. ("Vulcan"), 1101 W Monroe, Chicago, Ill.
Cleveland Pneumatic Tool Co. (Portable & Bench), 6410 Hawthorne av, Cleveland, O.
Cordesman, Meyer & Co., Cincinnati, O.
Cowdrey, C. H. Machine Works, Fitchburg, Mass.
Diamond Machine Co., Providence, R. I.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Frank Mach'y Co., 50 Mechanic, Buffalo, N. Y.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Gem Mfg. Co. ("Gem," Portable, Flexible Shaft), Pittsburg, Pa.
Gillie Machine Co. ("Tonawanda" Double), Tonawanda, N. Y.
Gisholt Machine Co. (Double Emery), Madison, Wis.
Glascock, G. T. & Sons, Greensboro, N. C.
Globe Foundry & Machine Co. ("Globe" Small for Farmers, Butchers, etc.), Sheboygan, Mich.
Goodnow, L. H. Foundry Co., Fitchburg, Mass.
Hall, Chas. E. Co. ("Union" Foot Power), Buffalo, N. Y.
Hampden Corundum Wheel Co., Brightwood, Springfield, Mass.
Herrick & Cowell, New Haven, Conn.
Hoil Mfg. Co., Buffalo, N. Y.
Holmes, E. B. Machinery Co., Buffalo, N. Y.
Huntsville Foundry & Machine Works (Nolan Jones, Props.), Huntsville, Ala
Nicholls, Wm. S. ("Economy" Emery Stand), Hornell, N. Y.
Northampton Emery Wheel Co., Leeds, Mass.
Norton Grinding Co., Worcester, Mass.
Partridge, Edw. O. ("Partridge"), 2047 Lake, Chicago, Ill.
Patterson Tool & Supply Co. ("Patterson"), Dayton, O.
Pittsburg Emery Wheel Co., Pittsburg, Pa.
Queen City Punch & Shear Co. ("Heinss" ILX), Cincinnati, O.
Ransom Mfg. Co. ("Vulcan"), Oshkosh, Wis.
**RICHARDS-WILCOX MFG. CO.** ("Richards," "Velox," "Cyclone," Ball-Bearing Steel Frame), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Rogers, Samuel C. & Co., Buffalo, N. Y.
Rockford Drilling Machine Co. (Tool), Rockford, Ill.
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offices, end of book)
Royersford Foundry & Machine Co., Royersford, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices ,end of book)
Safety Emery Wheel Co., Springfield, O.
Slotkin, Mayer Mfg. Co., 210 Canal, New York
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)
Spicer Mfg. Co., New Philadelphia, O.
Springfield Mfg. Co., Bridgeport, Conn.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Stover Mfg. Co. (Small for Farm, etc.), Freeport, Ill.
Stow Mfg. Co. (Stationary & Portable), Binghamton, N. Y.
Superior Corundum Wheel Co., Waltham, Mass.
Swineford, G. A. Co., Canton, O.
Tanite Co., Stroudsburg, Pa.
Vitrified Wheel Co., Westfield, Mass.
Waltham Machine Works (Small), Waltham, Mass.
Webster & Perks Tool Co. (Self-Oiling), Springfield, O.

## 4320– Grinders (Face)

Bay State Grinder Co., Worcester, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Diamond Machine Co., Providence, R. I.
Emmert Mfg. Co., Waynesboro, Pa.
Heald Machine Co., Worcester, Mass.
Landis Tool Co., Waynesboro, Pa.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Norton Grinding Co., Worcester, Mass.

## Grinders (Feed)

(See Mills, Feed Grinding)

## 4321– Grinders (Floor)

Clizbe Bros. Mfg. Co. ("Crown"), Plymouth Ind

## 4322–Grinders (Foot & Hand Power)

Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Hall, Chas. E. Co., Buffalo, N. Y.
Luther Bros. Co. ("Carbo Diamond," "Trojan," "Fire Fly," "Electric Diamond," "Sparkler," "Rapid," "Bull Dog," "Bench Skate," "Eclipse," "Giant," "Luther's," "Best Maide," "Gem," "Hummer," "Allen"), Milwaukee, Wis.
North Wales Machine Co., Inc. ("North Wales"), North Wales, Pa.
Pike Mfg. Co., Pike, N. H.
Robertson Mfg. Co., Buffalo, N. Y.
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offices, end of book)
Stover Mfg. Co. ("Stover," Emery Wheel, Hand Power), Freeport, Ill.

## 4323–Grinders (Huller Knife)

Carver Cotton Gin Co. (For Cotton Seed Hullers), East Bridgewater, Mass.

## 4324– Grinders (Internal)

Cincinnati Electrical Tool Co., Cincinnati, O.
Heald Machine Co., Worcester, Mass.
Hisey-Wolf Machine Co., Cincinnati, O.
Landis Tool Co. (Cylindrical), Waynesboro, Pa.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
Waltham Machine Works (Small), Waltham, Mass.

## 4325–Grinders (Knife & Scissors)

**ARCADE MFG. CO. ("Schofield,"** "Scientific," "Acme," Hand & Foot Power), Freeport, Ill. (See adv. index, end book)
Cincinnati Electrical Tool Co. (Knife Only), Cincinnati, O.
Covel Mfg. Co., Benton Harbor, Mich.
El Star Mfg. Co. ("Godfrey"), Milwaukee, Wis.
Luther Bros Co. ("Carbo Diamond," "Fire Fly," "Sparkler," with Polisher Attached), Milwaukee, Wis.
North Wales Machine Co., Inc. ("North Wales"), North Wales, Pa.
Olmstead, L. H. ("Olmstead's" Grinders & Sharpeners), Hasbrouck Heights, N. J.
Rogers, Samuel C. & Co. ("Buffalo" Automatic), Buffalo, N. Y.
Royal Mfg. Co. ("Practical" Kitchen Knife Grinder), Lancaster, Pa.
Safety Emery Wheel Co. (Knife Only), Springfield, O.
Shawmut Machinery Co. ("Perfection" Scissors), 87 Lincoln, Boston, Mass.

## 4326–Grinders (Lathe Center)

**COATES CLIPPER MFG. CO., Wor**cester, Mass. (See adv. index, end of book)
Diamond Machine Co., Providence, R. I.
Pratt & Whitney Co., Hartford, Conn.
Trump Bros. Machine Co., Wilmington, Del.

## Grinders (Lawn Mower)

(See Sharpeners, Lawn Mower)

## 4327– Grinders (Mill Pick)

Bullock, Chas. K., 1361 Ridge av, Phila., Pa.

## 4327a–Grinders of Minerals, Clays, Etc.

**WILBUR J. CO. (Job Grinding in** Car Load Lots). Office, Providence, R. I.; Factory, Phila., Pa. (See adv. index, end of book)

## Grinders (Mower Knife)

(See Grinders, Sickle & Mower Knife)

## 4328– Grinders (Oilstone)

Mummert, Wolf & Dixon Co., Hanover, Pa.

## 4329–Grinders (Paper Mill)

Noble & Wood Machine Co. ("Bull-Dog", for Roofing & Leather Stock), Hoosick Falls, N. Y.

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## 4330—Grinders (Plain Tool)

Barnes, W. F. & John Co., Rockford, Ill.
Blount, J. G. Co., Everett, Mass.
Bridgeport Safety Emery Wheel Co. (Emery Wheel), Bridgeport, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Bullock, C. K., 1357 Ridge av, Phila., Pa.
Carroll-Jamieson Machine Tool Co., Batavia, O.
Chicago Wheel & Mfg. Co., 1101 W Monroe, Chicago, Ill.
Cincinnati Electrical Tool Co., Cincinnati, O.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Diamond Machine Co. (Bench Tools, etc.), Providence, R. I.
El Star Mfg. Co. ("Godfrey," Hand Power), Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gisholt Machine Co. ("Universal Lathe & Planer"), Madison, Wis.
Gould & Eberhard, Newark, N. J.
Hall, Chas. E. Co. ("Union"), Buffalo, N. Y.
King Mfg. Co., Piqua, O.
Landis Tool Co. (Cylindrical), Waynesboro, Pa.
Le Blond, R. K. Machine Tool Co., Cincinnati, O.
Luther Bros. Co. ("Bull Dog," High Speed Hand Power, "Electric Diamond" Hand Power), Milwaukee, Wis.
Miami Valley Machine Tool Co., Dayton, O.
Modern Tool Co., Erie, Pa.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
Mummert, Wolf & Dixon Co. ("Universal"), Hanover, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Northampton Emery Wheel Co., Leeds, Mass.
Norton Grinding Co., Worcester, Mass.
Osterlein Machine Co., Cincinnati, O.
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Ransom Mfg. Co. ("Vulcan"', Oshkosh, Wis.
Robertson Mfg. Co. ("Hero"), Buffalo, N. Y.
Rockford Drilling Machine Co., Rockford, Ill.
Safety Emery Wheel Co., Springfield, O.
Slate, Dwight Machine Co., Hartford, Conn.
Springfield Mfg. Co., Bridgeport, Conn.
Star Corundum Wheel Co., Detroit, Mich.
**STARK TOOL CO. (For Small Tools), Waltham, Mass.** (See adv. index, end of book)
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Superior Corundum Wheel Co., Waltham, Mass.
Tabor Mfg. Co. ("Taylor"), 1740 Hamilton, Tucker Machine Co., Cincinnati, O. Phila., Pa.
Valley City Machine Works ("V. C."), Grand Rapids, Mich.
Vitrified Wheel Co., Westfield, Mass.
Walker Grinder Co., Worcester, Mass.
Webster & Perks Tool Co. (W. & P.), Springfield, O.
Wells, F. E. & Son Co., Greenfield. Mass.
Western Implement Co., Port Washington, Wis.
Whitney Mfg. Co., Hartford, Conn.
**WILMARTH & MORMAN CO., 585** Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 4331—Grinders (Planer Knife)

**American Twist Trill Co. (Automatic), Laconia, N. H.**
American Woodworking Machy. Co., Rochester, N. Y.
**Baldwin, Tuthill & Bolton, Grand Rapids, Mich.**
**Bentel & Margedant Co. (Wet & Dry), Hamilton, O.**
Berlin Machine Works, Beloit, Wis.
**Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.**
**Capitol Machine Wks. (Automatic), Indianapolis, Ind.**
Carver Cotton Gin Co. (Wet & Dry), E Bridgewater, Mass.
Cutter-Wood Supply Co., Boston, Mass.
Defiance Machine Works, Definance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Hall & Brown Woodworking Machine Co., St. Louis, Mo.
**Hickok, W. O. Mfg. Co., Harrisburg, Pa.**
**Holmes, E. & B. Machinery Co., Buffalo, N. Y.**
**Mummert, Wolf & Dixon Co. ("Universal"), Hanover, Pa.**
**Niles-Bement-Pond Co., 111 B'way, New York**
**Powers, Wm. T. & Son, Grand Rapids, Mich.**
Rogers, Samuel C. & Co. ("Buffalo" Automatic, etc.), 10 Lock, Buffalo, N. Y.
Safety Emery Wheel Co., Springfield, Ohio.
Saxon Machine Co. (Automatic), Holyoke, Mass.
**Smith, H. B. Machine Co., Smithville, N. J.**
Superior Corundum Wheel Co., Waltham, Mass.
Trevor Mfg. Co., Lockport, N. Y.
Woods, S. A. Machine Co., Boston, Mass.

## 4332— Grinders (Portable)

Anderson Electric Machine Tool Co. (Electric), St. Louis, Mo.
Armstrong-Blum Mfg. Co. ("Marvel"), 337 N Francisco av, Chicago, Ill.
Brown, Harold P. (Hand Power), 120 Liberty, New York
**CHICAGO FLEXIBLE SHAFT CO.** (Emery, etc.), 81 La Salle av, Chicago, Lll. (See adv. index & branch offices, end of book)
**CHICAGO PNEUMATIC TOOL CO.** (Operated Either by Compressed Air or Electricity), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Cincinnati Electrical Tool Co. (Electric), Cincinnati, O.**
Diamond Machine Co., Providence, R. I.
**FREVERT MACHINERY CO. (Electric), 18 Dey, New York.** (See adv. index, end of book)
**GENERAL ELECTRIC CO. (Electric),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Hisey-Wolf Machine Co. (Electric), Cincinnati, Ohio
Royal Mfg. Co. (Hand Power, Carborundum), Lancaster, Pa.
Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa.
Stow Mfg. Co. (Electric, Flexible Shaft), Binghamton, N. Y.
United States Electrical Tool Co. (Electric Hand), Cincinnati, O.

## 4333—Grinders (Rail Bond)

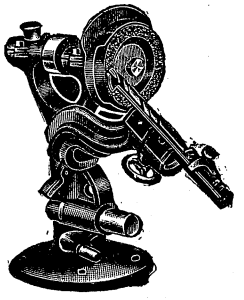
**COATES CLIPPER MFG. CO. (Electric), Worcester, Mass.** (See adv. index, end of book)

## 4334—Grinders (Reamer & Cutter)

Adams Co. ("The Farwell Cutter"), Dubuque, Iowa
Anderson Tool Co., Anderson, Ind.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Clark, Jas., Jr., Electric Co. (Cutter), Louisville, Ky.
Clough, R. M., Tolland, Conn.
**COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass.** (See adv. index, end of book)
**Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.**
Faneuil Watch Tool Co. (Cutter), 1 Brooks Br., Boston, Mass.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Garvin Machine Co. (Universal Cutter), 137 Varick, New York
**Greenfield Machine Co., Greenfield, Mass.**
**Hisey-Wolf Machine Co. (Portable Electric), Cincinnati, O.**
Ingersoll Milling Machine Co. ("Le Blond," Cutter Grinder), Rockford, Ill.
Le Blond, R. K. Machine Tool Co. (Cutter), Cincinnati, O.
Miami Valley Machine Tool Co. (Cutter), Dayton, O.
**Mixter, J. W. Saw Tool Co. ("Mixter" Gummer Cutter Grinder), Plymouth, Mass.**
National Machine Co. (Cutter), Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Northampton Emery Wheel Co., Leeds, Mass.
Norton Grinding Co., Worcester, Mass.
Olney Machine Co. (Automatic Cutter), 5315 N 2d, Phila., Pa.
Osterlein Machine Co., Cincinnati, O.
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Rivett Lathe Mfg. Co. (Cutter), Brighton, Boston, Mass.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slate, Dwight Machine Co., Hartford, Conn.
**STARK TOOL CO. ("Stark" Pinion Cutter Grinder), Waltham, Mass.** (See adv. index, end of book)
Superior Corundum Wheel Co., Waltham, Mass.
Walker Grinder Co., Worcester, Mass.
Wells, F. E. & Son Co., Greenfield, Mass.
**WILMARTH & MORMAN CO. ("New Yankee"), 585 Canal, Grand Rapids, Mich.** (See adv. index, end of book)
Woods Engineering Co., Alliance, O.

## 4334a— Grinders (Ring)

**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York.** (See adv. index & branch offices, end of book)

A Small "NEW YANKEE" for the Little Drills. Style "L." Capacity No. 60—5/8-inch

# New Yankee Drill Grinders

A multitude of styles

SURFACE GRINDERS, hand or power feed, wet or dry.
CUTTER AND REAMER GRINDERS, plain or universal.
LATHE CENTER GRINDERS, a practically perfect tool.
WATER TOOL GRINDERS, plain or with drill grinder.
ABRASIVE WHEEL CUTTING OFF MACHINES, inexpensive and valuable.
W. & M. (Nelson Patent) LOOSE PULLEYS, for hard service, on trial.
REVERSIBLE PROPELLERS FOR MOTOR BOATS. Speed, Strength, Control.

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## 4335— Grinders (Roll)

Diamond Machine Co. (Spindle & Roll), Providence, R. I.
Farrel Foundry & Machine Co., Ansonia, Conn.
**FREVERT MACHINERY CO., 18** Dey, New York. (See adv. index, end of book)
Hamden Corundum Wheel Co., Brightwood, Mass.
Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.
Lobdell Car Wheel Co., Wilmington, Del.
Nordyke & Marmon Co., Indianapolis, Ind.
Poole, J. Morton Co., Wilmington, Del.
Springfield Mfg. Co., Bridgeport, Conn.
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

## 4336—Grinders (Rotary Shear)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Springfield Mfg. Co., Bridgeport, Conn.

## 4337—Grinders (Sample Ore)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Braun Corp. (Hand), Los Angeles, Cal.
Calkins Co. ("Advance" Disc, Hand or Power), Los Angeles, Cal.
Davis, F. M. Iron Works Co., Denver, Col.
Denver Engineering Works Co., Denver, Col.
Engelbach Machine Mfg. Co., Leadville, Col.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.

## 4338— Grinders (Sand)

**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Wetherill, R. & Co., Chester, Pa.

## 4339— Grinders (Saw)

Covel Mfg. Co. (Band Saw), Benton Harbor, Mich.
Hinds, Thos., Malone, N. Y.
Howell, R. R. & Co., Minneapolis, Minn.
Q. M. S. Co. (Automatic), Plainfield, N. J.

## 4339a—Grinders (Shear Knife)

**TRETHEWEY, SAM'L & CO., Ltd.,** 47th, Pittsburg, Pa. (See adv. index, end of book)

## 4340—Grinders (Sickle & Mower Knife)

Acme Harvesting Machine Co. ("Acme"), Peoria, Ill
Ajax Mfg. Co. ("Vulcan" "Moore"), N. S. Pittsburg, Pa.
Chapman, H. L. ("Chapman"), Marcellus, Mich.
Cheney, S. & Son ("Fowler"), Manlius, N. Y.
Chicago Wheel & Mfg. Co. ("Gem" & "Jewell"), Chicago, Ill.
Clizbe Bros. Mfg. Co. ("Daily," "Royal," "Star," "Crown" Sickle), Plymouth, Ind
Cutaway Harrow Co. ("Dutton"), Higganum Conn.
Heath Fdry & Mfg. Co., Plymouth, O.
Herschel, R. Mfg. Co. ("Herschel," "New Model"), Peoria, Ill.
**INTERNATIONAL HARVESTER CO.** of America ("Champion," "Deering," "McCormick," "Milwaukee," "Osborne," "Plano"), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Leavitt Machine Co. ("Perfection"), Orange, Mass.
Luther Bros. Co. ("Luther's" with Sickle Attachment, "Challenge," "Spartan" Sickle), Milwaukee, Wis.
Miessner Bros. & Co. (World's), Huntington, Ind.
Racine Malleable & Wrought Iron Co. ("Boss" & "Racine"), Racine, Wis.
Richard-Wilcox Mfg. Co. ("Velox"), Aurora, Ill.
Schofield & Co. ("Schofield"), Freeport, Ill.
Western Implement Co. ("Osborne," "Western," "Hill," "Farmers Joy" & Sickle Grinders), Port Washington, Wis.
**WHITMAN & BARNES MFG. CO. ("Diamond" Bevel Wheel, also for Scythes, etc.),** Akron, O. (See adv. index & branch offices, end of book)
Wood, Walter A. Mower & Reaper Machine Co. ("Paragon"), Hoosick Falls, N. Y.

## 4341—Grinders (Silversmiths')

**COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index, end of book)**

## 4341a—Grinders (Single & Double Tool)

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index end of book)

## 4342— Grinders (Spindle)

**Moseley Latha Co. ("Moseley" Traverse for Internal and External Grinding), Elgin, Ill.**

## 4343— Grinders (Surface)

American Die & Tool Co. (Combined Surface Grinder & Head), Reading, Pa.
Bath Grinder Co., Fitchburg, Mass.
Bay State Grinder Co., Worcester, Mass.
Besly, Chas. H. & Co. ("Besly" Flat Surface), 124 N Clinton, Chicago, Ill.
**BIGNALL & KEELER MFG. CO.** ("Peerless"), Edwardsville, Ill. (See adv. index, end of book)
Blake & Johnson Co. ("Waterbury"), Waterbury, Conn.
Blanchard Machine Co. (High Power Vertical), Cambridge, Mass.
**Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.**
**Brown & Sharpe Mfg. Co., Providence, R. I.**
Clark, Jas., Jr., Electric Co., Louisville, Ky.
Cleveland Automatic Machine Co. ("Cleveland" Tool & Surface), Cleveland, O.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Clough, R. M., Tolland, Conn.
**Diamond Machine Co. (Automatic, Hand, etc.), Providence, R. I.**
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**Garvin Machine Co., 137 Varick, New York**
Hemming Bros. Co., New Haven, Conn.
**Heald Machine Co., Worcester, Mass.**
**Hisey-Wolf Machine Co. (Portable Electric), Cincinnati, O.**
Landis Tool Co., Waynesboro, Pa.
**La Salle Machine & Tool Co., La Salle, Ill.**
National Machine Co., Hartford, Conn.
**Niles-Bement-Pond Co., 111 B'way, New York**
Pratt & Whitney Co. (Vertical), Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Robinson Tool Works, Waterbury, Conn.
Rowbottom Machine Co. ("Rowbottom" Combination End & Surface Grinders), Waterville, Conn.
Safety Emery Wheel Co., Springfield, O.
Saxon Machine Co., Holyoke, Mass.
Springfield Mfg. Co. (Planer & Vertical Type), Bridgeport, Conn.
Stein, Wm. P. & Co., Rochester, N. Y.
Tanite Co., Stroudsburg, Pa.
Valley City Machine Works (Combination Tool, Disc & Surface Grinders), Grand Rapids, Mich.
Walker Grinder Co. ("Walker" Ideal Motor Driven), Worcester, Mass.
**WILMARTH & MORMAN CO. ("New** Yankee"), 585 Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 4344—Grinders (Swing Frame)

**Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.**
Cutter-Wood Supply Co., Boston, Mass.
Pittsburg Emery Wheel Co., Pittsburg, Pa.
**Safety Emery Wheel Co., Springfield, O.**
Springfield Mfg. Co., Bridgeport, Conn.
**Sterling Emery Wheel Mfg. Co., Tiffin, Ohio**

## Grinders (Tool)

**(See Grinders, Plain Tool; also Grinders, Wet Tool)**

## 4345— Grinders (Tool Post)

**Armstrong-Blum Mfg. Co. (Fitted for Attachment to Lathes & Planers), 337 N Francisco av, Chicago, Ill.**
**Cincinnati Electrical Tool Co., Cincinnati, O.**
**Grant Mfg. & Machine Co. (& Internal), Bridgeport, Conn.**

## 4346—Grinders (Track Rail)

Buda Co., Railway Exch. bldg, Chicago, Ill.
Cook's Standard Tool Co. ("Magic"), Kalamazoo, Mich.
Stow Mfg. Co. (Electric, with Flexible Shaft), Binghamton, N. Y.

## Grinders (Twist Drill)

**(See Grinders, Drill)**

## 4347— Grinders (Universal)

Bath Grinder Co., Inc. ("Bath", Plain, Surface, Disc, Internal & Cutter Grinder, All in One), Fitchburg, Mass.
**Brown & Sharpe Mfg. Co., Providence, R. I.**
Cincinnati Grinder Co., Cincinnati, O.
**Diamond Machine Co., Providence, R. I.**
**Gisholt Machine Co. (For Lathes & Planer Tools), Madison, Wis.**
Greenfield Machine Co., Greenfield, Mass.
**Landis Tool Co. (Cylindrical), Waynesboro, Pa.**
**Le Blond, R. K., Machine Tool Co., Cincinnati, O.**
Leland, W. H. & Co. (Goose Neck Type),
**Modern Tool Co., Erie, Pa.** Worcester, Mass.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Norton Grinding Co., Worcester, Mass.
Oesterlein Machine Co., Cincinnati, O.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Springfield Mfg. Co., Bridgeport, Conn.
**Thompson Grinder Co., Springfield, O.**
Walker Grinder Co., Worcester, Mass.
**Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.**
Wells, F. E. & Son Co., Greenfield, Mass.
**WILMARTH & MORMAN CO., 585** Canal, Grand Rapids, Mich. (See adv. index, end of book)
Woods Engineering Co., Alliance, O.

## 4348— Grinders (Valve)

Ashcroft Mfg. Co., 87 Liberty, New York
Bay State Grinder Co., Worcester, Mass.
**Cleveland Pneumatic Tool Co. ("Cleveland" Portable), 6410 Hawthorne av, Cleveland, Ohio**
Motch & Merryweather Mach. Co. ("Misch"), Cleveland, O.

## 4349— Grinders (Vertical)

**Diamond Machine Co. (Also with Polishing Drum), Providence, R. I.**

## 4350—Grinders (Water Motor)

Luther Bros. Co. ("Diamond"), Milwaukee, Wis.

## 4351— Grinders (Wet Tool)

**Baldwin, Tuthill & Bolton, Grand Rapids, Mich.**
Barnes Drill Co., Rockford, Ill.
Barnes, W. F. & John Co., Rockford, Ill.
**Bath Grinder Co. ("Bath"), Fitchburg, Mass.**
Blount, J. G. & Co., Everett, Mass.
**Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.**
Clark, Jas., Jr., Electric Co. (Electrically Driven), Louisville, Ky.
**Diamond Machine Co., Providence, R. I.**
Edgemont Machine Co. ("Edgemont"), Dayton, Ohio
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gould & Eberhardt, Newark, N. J.
Heald Machine Co., Worcester, Mass.
Hoysradt & Case, Kingston, N. Y.
Leland, W. H. & Co., Worcester, Mass.
Lutter & Gies ("Milwaukee"), Milwaukee, Wis.
Monarch Grinding Wheel Co. ("Sellers"), Camden, N. J.
Northampton Emery Wheel Co., Leeds, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
**Ransom Mfg. Co. (Belt or Motor Driven), Oshkosh, Wis.**
Rockford Drilling Machine Co., Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**Safety Emery Wheel Co., Springfield, O.**
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

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Springfield Mfg. Co. ("Springfield", Double), Bridgeport, Conn.
Superior Corundum Wheel Co., Waltham, Mass.
Tucker Machine Co., 222 E 9th, Cincinnati, O.
Valley City Machine Works, Grand Rapids, Mich.
Walker, O. S. & Co. ("Globe," Water Tool), Worcester, Mass.
Washburn Shops (Drill), Worcester, Mass.
Whitney Mfg. Co., Hartford, Conn.
**WILMARTH & MORMAN CO., 585** Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 4352—Grinders (Wood Pulp)

(See also Paper & Pulp Mill Machinery)

Appleton Machine Co. ("Success", Screening Girder), Appletton, Wis.
Bagley & Sewell Co., Watertown, N. Y.
Bellows Falls Machine Co., Bellows Falls, Vt.
Dayton Globe Iron Works Co., Dayton, Ohio
Dilts Machine Works, Fulton, N. Y.
Friction Pulley & Machine Works, Hudson Falls, N. Y.
Holyoke Machine Co., Holyoke, Mass.
Pusey & Jones Co., Wilmington, Del.
Scott, Olin, Bennington, Vt.
Valley Iron Works Co., Appleton, Wis.

## 4352a—Grinding Stones (Compositions For)

**SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)**

## 4353—Grindstone Boxes & Frames

American Tool & Machine Co., Boston, Mass.
Athol Machine Co. (Iron), Athol, Mass.
Defiance Machine Works (Iron), Defiance, O.
Cleveland Stone Co. (Grindstone Frames), Hickox bldg, Cleveland, O.
Grabo, E. O., 180 Centre, New York
Hoppen, J. E. & Sons ("Hoppen"), Belleville, N. J.
Howard Iron Works (Iron), Buffalo, N. Y.
Oliver Machinery Co., Grand Rapids, Mich.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), (Iron), 1600 Hamilton, Philadelphia, Pa.
Smith, H. B. Machine Co. (Iron), Smithville, N. J.

## 4354— Grindstone Fixtures

American Foundry & Mfg. Co., St. Louis, Mo.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Penn Hardware Co., Reading, Pa.
**RICHARDS-WILCOX MFG. CO.** ("Richards" Ball Bearing), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Stowell Mfg. & Fdry Co., So. Milwaukee, Wis.
Susquehanna Casting Co., Wrightsville, Pa.
Weller Hdw. & Fdry. Co., Horseheads, N. Y.
**WHITMAN & BARNES MFG. CO.,** Chicago, Ill. (See adv. index & branch offices, end of book)
Wrightsville Hardware Co., Wrightsville, Pa.

## 4355—Grindstone Truing Device

Athol Machine Co., Athol, Mass.
Hoppen, J. E. & Sons ("Hoppen"), Belleville, N. J.

## 4356— Grindstones

Belpre Stone Co., Belpre, O.
Buffalo Foundry Supply Co., Buffalo, N. Y.
Cleveland Stone Co. ("Sterling"), Cleveland, O.
Columbia Stone Co. of Cleveland (Loose & Mounted), Cleveland, O.
Everhard Co., Massillon, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Francis & Co., Hartford, Conn.
Garrett, James & Co., 1432 S Penn sq, Phila., Pa.
Gordon Metal Co., Richmond, Va.
Hoppen, J. E. & Sons, Belleville, N. J.
Kirk Grindstone Co., Cincinnati, O.
Lombard & Co. (Nova Scotia), Boston, Mass.
McCroden, Jno. & Co., 33 West, New York
Marietta Stone Co. (Inc.) (For Saw & Edge Tools, Files, etc.), Marietta, O.
Middleburg Stone Co., Elyria, O.
Miller Falls Co., 28 Warren, New York
Mitchell, Wilson, 605 N Front, Phila., Pa.
Morris, E. K. & Co., 317 W 2d, Cincinnati, O.
Murray Stone Co. ("Whitners" Only), Williamson bldg, Cleveland, O.
**OHIO QUARRIES CO., Citizens bldg.,** Cleveland, O. Quarries & Mills: Amherst, O.
Penn Hardware Co. (Kitchen), Reading, Pa.
Pike Mfg. Co., 151 Chambers, New York, & Pike Station, N. H.
**RICHARDS-WILCOX MFG. CO.** ("Victor" & "King" Tubular Ball Bearing, also "Eli" Ball Bearing, "Climax" Wood Frame; "Challenge" Ball Bearing, "Cycle," "Velox" Steel Frame), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Smith's Jno. E. Sons Co., Buffalo, N. Y.
Wallace Co., Port Austin, Mich.
**WHITMAN & BARNES MFG. CO.** (Tubular & Wood Frame, etc.), Akron, O. (See adv. index & branch offices, end of book)

## 4357—Grindstones (Kitchen)

Millers Falls Co., 28 Warren, New York
**RICHARDS-WILCOX MFG. CO.** ("Richards" Ball Bearing), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 4358— Grippers (Guy)

**UNION ELEVATOR & MACHINE CO.** ("Gibson's"), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 4359— Grips (Cable)

Cockburn Co., Jersey City, N. J.
Elgin Mfg. Co. ("McMahon" Underground), Elgin, Ill.
Hallett Iron Works ("McMahon"), 519 W Polk, Chicago, Ill.
Hazard Mfg. Co. (For Coal Cars or Mine Wagons), Wilkes-Barre, Pa.
Keays Cable Grip Co., 95 Liberty, New York
Klein, Mathias & Sons ("Quick Samson"), 562 W Van Buren, Chicago, Ill.
**LESCHEN, A. & SONS ROPE CO.,** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Litchfield Foundry & Machine Co. ("Morgan's," for Mine Cars, etc.), Litchfield, Ill.
Perfection Electric Mfg. & Supply Co. ("Gem"), 38 Park row, New York
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Universal Cable Grip Co. ("Universal," for Underground or Aerial Cables), Syracuse, N. Y.

## 4360— Grips (Chain Tire)

Weed Chain Tire Grip Co., Bridgeport, Conn.

## 4361— Grips (Nail)

Vaughn & Bushnell ("V. & B." Eight Steel Fingers), 2130 Carroll av, Chicago, Ill.

## 4362— Grips (Pipe)

Athol Machine Co. ("Standard"), Athol, Mass.
Lockhart, R. James, Pittsburg, Pa.
Prentiss Vise Co. ("Peerless"), 106 Lafayette, New York

## 4363—Grips (Socket Strain-Relief)

Marshall Electric Co. (Fibre), Boston, Mass.
Swan Electric Co., Boston, Mass.
Trumbull Elec. Mfg. Co., Plainville, Conn.

## 4364—Grips (Steering Lever)

American Enamel Co., Neville, Providence, R. I.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Mesinger Mfg. Co., 1801 1st av, New York
Woodworth Bros., Newton Highlands, Mass.

## 4365— Grips (Wire)

Glass, Geo. H. & Co. ("Never Slip" Wire), Pekin, Ill.
Klein, Mathias & Sons ("Chicago," "Haven's" "Comelong," "American," "Common Eccentric," "Landee's," "Klein, Staple A. B. C."), 562 W Van Buren, Chicago, Ill.

## 4366—Grommet Inserting Dies & Cutters

Wilcox, Crittenden & Co., Middletown, Conn.

## 4367— Grommets (Metal)

American Ring Co., Waterbury, Conn.
Berbecker & Rowland Mfg. Co., Waterville, Conn.
**BETTCHER MFG. CO., Clark av at C. C. C. & St. L. Ry, S W, Cleveland, O. (See adv. index, end of book)**
Cleveland Wrought Washer Co., Cleveland, O.
Crandal, Stone & Co., Binghamton, N. Y.
**GRAMMES, L. F. & SONS,** Allentown, Pa.
Jenkinson, R. C. & Co., Newark, N. J.
Judd, H. L. Co. (Carpet Pins & Sockets), 87 Chambers, New York
Laughlin, Thos. Co., Portland, Me.
Rimmon Mfg. Co., Seymour, Conn.
Scovill Mfg. Co., Waterbury, Conn.
Stimpson, Edwin B. & Son (Brass), 31 Spruce, New York
Thompson, Judson L. Mfg. Co., Waltham, Mass.
Waterbury Brass Co., Waterbury, Conn.
Wilcox, Crittenden & Co. (Brass), Middletown, Conn.

## 4368—Groovers (Sheet Metal)

Barber Mfg. Co. ("Noyes"), Ashtabula, O.
**CRESCENT NOVELTY MFG. CO.** (Carriage, Sidewalk, Adjustable Side Plate), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)

## 4369— Guano Distributors

Baker, H. J. & Bro. (Importers & Dealers Fish), 100 William, New York
Gantt Mfg. Co. ("Gantt's"), Macon, Ga.
Heller, Hirsh & Co. (Imported Fish), 62 William, New York
Hollingshurst & Co. (Fish, Whale, etc.), 68 Beaver, New York
Munro, Robt. A. & Co. (Importers & Dealers, Fish & Whale), 31 Liberty, New York
Navassa Guano Co. (Mfrs.), Wilmington, N. C.

## 4370—Guards (Arc Lamp, Wire)

**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hamblin & Russell ("Never Break"), Worcester, Mass.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
McCall, T. E. & C. S., Bennettsville, S. C.
**MORSE, FRANK W. ("Never Break"),** 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

## 4371—Guards (Cattle, for Railways)

Adreon Mfg. Co., St. Louis, Mo.
American Bridge Co., 30 Church, New York
Buda Co., Railway Exch bldg, Chicago, Ill.
Bushnell Co., Evanston, Ill.
Columbian Mail Crane Co. ("Columbian" Steel), 898 Factory, Columbus, O.
Cook's Standard Tool Co. ("Cook's," Steel & "Cook's Steel-Wood"), Kalamazoo, Mich.
**FAIRBANKS, MORSE & CO. ("Trackman's" & "Sheffield"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co. (Chain Surface), 212 N 3d, St. Louis, Mo.
Kalamazoo Railway Supply Co. ("Perfect," Steel Surface & "Oaken," Wood Surface), Kalamazoo, Mich.
Kenly, W. K. Co., 164 Dearborn, Chicago, Ill.
Lee Roller Surface Cattle Guard Co., Salt Lake City, Utah
National Surface Guard Co. ("Pioneer" Metal), 215 La Salle, Chicago, Ill.
Railroad Supply Co., 215 Dearborn, Chicago, Ill.
Sheffield Car Co., Three Rivers, Mich.
Wallace Surface Cattle Guard Mfg. Co., Monroe, Ark.

## 4372— Guards (Dust)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

## 4373—Guards (Electric Lamp)

Andrews Wire & Iron Works, Rockford, Ill.
Benjamin Electric Mfg. Co. ("Can't Break"), 128 S Sangamon, Chicago, Ill.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
**DARBY, EDW. & SONS CO. (Wire), 239** Arch, Phila., Pa. (See adv. index, end of book)

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Doubleday-Hill Electric Co. ("Holdfast"), Pittsburg, Pa.
Electric Service Supplies Co. ("O-K"), Phila., Pa.
**ESTEY WIRE WORKS, 59 Fulton,** New York. (See adv. index, end of book)
**FRINK, I. P. (Portable), 24th st & 10th av,** New York. (See adv. index, end Gail-Webb Mfg. Co., Buffalo, N. Y. of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gleason, E. P. Mfg. Co., 37 Murray, New York
Greenwood Mfg. & Supply Co. ("Greenwood," "Peerless"), 12 Pearl, Boston, Mass.
Hamblin & Russell Mfg. Co. ("Never Break"), Worcester, Mass.
Hipwell Mfg. Co., North Side, Pittsburg, Pa.
**HOWARD & MORSE (Wire), 46 Fulton,** New York. (See adv. index, end of Hubbell, Harvey, Bridgeport, Conn. book)
**INGLIS, WM. WIRE & IRON WKS.,** ("Perfection"), 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JOHNS, H. W. MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Joseph, Sigmund, 245 W B'way, New York
McGill Mfg. Co. ("Loxon"), Valparaisa, Ind.
Matthews, W. N. & Bro. ("Matthews", "Holdfast"), 233 N 2d, St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**MORSE, FRANK W. ("Never-Break"),** 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
Russell & Stoll Co., 48 Cliff, New York
Standard Wire Co., Newcastle, Pa.
Wire Goods Co., Worcester, Mass.

## 4374— Guards (Fan)

**INGLIS, WM. WIRE & IRON WKS.** (Brass), 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)

## 4374a— Guards (Foot)

Economy Seperable Switch Point Co. ("Economy," Pressed Steel, for Frogs, Switches, etc.), Louisville, Ky.

## 4375—Guards (Lawn & Flower Bed)

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., Buffalo, N. Y.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Prairie States Mfg. Co. (Wire), Cedar Falls, Ia.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 4376— Guards (Manhole)

Bissell, F. Co. ("Security"), Toledo, O.

## 4377—Guards (Mower & Reaper)

Henry & Allen, Auburn, New York
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 4378—Guards (Portable Lamp, Wire)

Benjamin Electric Mfg. Co. ("Protectalite"), 40 W Jackson boul, Chicago, Ill
Electric Service Supplies Co. ("Keystone") 1020 Filbert, Phila., Pa
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**FRINK, I. P., 24th & 10th av, New** York. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hamblin & Russell Mfg. Co., Worcester, Mass
Harvard Electric Co., 525 W Van Buren, Chicago, Ill
Joseph, Sigmund, 245 W B'way, New York
McGill Mfg. Co. ("Bull Dog", Improved Protector), Valparaiso, Ind.
**MORSE, FRANK W. ("Never Break").** 516 Atlantic av, Boston, Mass. (See adv index end of book)
Overbagh & Ayres Mfg. Co. ("Camco"), 232 S Clinton, Chicago, Ill.
Robb & Blackmer, Boston, Mass.
Russell & Stoll Co., 48 Cliff, New York
Seidler-Miner Elec. Co. ("S-M" Watertight Bunch Light), Detroit, Mich
Swan Electric Co., Boston, Mass.
Wells Light Mfg. Co., Jersey City, N. J.

## 4378a—Guard (Railroad Bridge)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)

## 4379—Guards (Safety Car)

McGuire-Cummings Mfg. Co. (Coil Spring Safety Guards Used Between Cars), 400 N Sangamon, Chicago, Ill.
Meyer Safety Guard Co. (For Open & Closed Cars to Prevent Passengers from Boarding or Alighting While Car is in Motion), Omaha, Neb.

## 4380— Guards (Skylight)

**BOLLES, J. E. IRON & WIRE WKS.** (Wire), Detroit, Mich. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.** (Wire), 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO. 8th & Eggleston** av, Cincinnati, O., & 1133 B'way, New York. (See adv index & branch offices, end of book)

## Guards (Tree)

(See Iron Railings & Fences; also Wire Fences & Gates)

## 4381— Guards (Trolley)

Automatic Trolley Guard Co., Buffalo, N. Y.
National Railroad Trolley Guard Co., Olean, N. Y.

## 4382— Guards (Wheel)

**CANTON FOUNDRY & MACHINE CO.** (Cast Iron), Canton, O. (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.

## Guards (Window)

(See Grilles, Various Kinds)

## 4383— Gudgeons

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.

## 4384— Guides (Elevator)

**STANDARD GAUGE STEEL CO.** (Compressed Steel & Finished Tees), Beaver Falls, Pa. (See adv. index, end of book)

## 4385— Guides (Saw)

American Sawmill Machinery Co. ("American"), 50 Church, New York & Hackettstown, N. J.
American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Baldwin, Tuthill & Bolton (For Band Saws), Grand Rapids, Mich.
Barry Saw Co., Indianapolis, Ind.
Corinth Engine & Boiler Works, Corinth, Miss.
Filer & Stowell Co., Milwaukee, Wis.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
Howell, R. R. & Co., Minneapolis, Minn.
International Endless Chain Saw Co., 34 University pl, New York
Lane Mfg. Co., Montpelier, Vt.
Murray, L. J. Mfg. Co., Wausau, Wis.
**NEW BRITAIN MACHINE CO.** "Pines," Band Saw), New Britain, Conn. (See adv. index, end of book)
Ohlen, J. & Sons Saw Mfg. Co., Columbus, Ohio
Overholt Co., Galesburg, Ill.
Reed, Jos. B., Cairo, Ill.
Salem Iron Works, Winston-Salem, N. C.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Standard Saw Mill Machinery Co., Erie, Pa.
Union Iron Works, Bangor, Me.
Wickes Bros., Saginaw, Mich.

## 4386—Gum (Splicing, Pure Rubber)

Boston Woven Hose & Rubber Co., Cambridge, Mass.
Clifton Mfg. Co., Boston, Mass.
Consumers Rubber Co. ("Samson"), Cleveland, Ohio
Massachusetts Chemical Co., Walpole, Mass.
Morgan & Wright, Detroit, Mich.

## 4387— Gum-Lac

**Ball Chemical Co. (A Pure Gum & Spirit Varnish), Pittsburg, Pa.**

## 4388—Gummers (Emery Wheel)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

## 4389— Gummers (Saw)

Adams, W. T. Machine Co., Corinth, Miss.
Ajax Mfg. Co. ("Standard," "I. X. L." & "Great American"), N. S., Pittsburg, Pa.
American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg, New York
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.
Branch Saw Co., St. Louis, Mo.
California Saw Works, San Francisco, Cal.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Covel Mfg. Co. (Automatic), Benton Harbor, Mich.
Diamond Machine Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co., Beaver Falls, Pa.
Fisher & Davis Mfg. Co., St. Louis, Mo.
Gerlach, Peter Co. ("Gerlach," for Cylinder, Resaw, Heading, Siding, Shingle, Veneer, etc.), Columbus rd & Winter, Cleveland, O.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
Hinds, Thos. (Band Saws), Malone, N. Y.
Hoe, R. & Co., 504 Grand, New York.
Howell, R. R. & Co., Minneapolis, Minn.
Mixter, J. W. Saw Tool Co. (For Circular Saws, also Automatic Self-Feed ("Champion" Saw Gummer), Plymouth, Mass.
Reed, Jos. B. (The Hoo-Hoo), Cairo, Ill.
Riverside Iron Works (Crescent), Kokomo, Ind.
Rogers, S. C. & Co., 10 Lock, Buffalo, N. Y.
Rowe & Trunnell, 123 W 2d, Cincinnati, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta, Ga.
Tanite Co., Stroudsburg, Pa.
Wood Gummer & Filer Co. ("Simplex" Gin Saw), Atlanta, Ga.

## 4389a—Gums (Shellac & Dextrine)

**FOX, M. EWING & CO., 240 E 136th,** New York. (See adv. index, end of book)

## Gun Implements

(See Tools, Gun Cleaning & Re-Loading)

## Gun Mfrs.

(See Rifles, Guns, Etc.)

## Gunpowder Mfrs.

(See Powder Manufacturers)

## 4390— Guns (Insect)

Houchin, Thos. W. Co. ("Jumbo"), 318 B'way, New York

## Guns (Yacht)

(See Cannon, Yacht)

## 4391—Gun Recoil Pads (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 4392—Gymnastic Apparatus

Narragansett Machine Co., Providence, R. I.
Spalding, A. G. & Bros., 126 Nassau, New York, & 149 Wabash av, Chicago, Ill.

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## 4393— Gypsum Mfrs.

(See also Plaster Manufacturers, Wall)
American Gypsum Co. (Crude), Rochester, N. Y
Independence Gypsum Co., Southard, Okla.
Niagara Gypsum Co., Buffalo, N. Y.
Pacific Coast Gypsum Co., Tacoma, Wash.
Plymouth Gypsum Co., Fort Dodge, Ia.
Southern Gypsum Co., North Holston, Va.

## Hack Saws

(See Saw Blades & Frames, Hack; also Hack Saw Machines)

## 4394— Hair Cloth Mfrs.

Cataract Hair Cloth Co., Niagara Falls, N. Y.
Chicago Hair Cloth Co., 3109 Market sq, Chicago, Ill.
French Hair Cloth Co., Pawtucket, R. I.
Mawson, Jno. Hair Cloth Co., Kensington & Glenwood avs, Phila., Pa.
Zeidman, M. Hair Cloth Co., 2S10 Throop, Chicago, Ill.

## 4395— Hair (Curled)

American Glue Co., Boston, Mass.
Armour Curled Hair Works, 3131 Benson, Chicago, Ill.
Baeder, Adamson & Co., Richmond & Allegheny av, Phila., Pa.
Bieger, Adolph, St. Louis, Mo.
Blehdon, V. R., Buffalo, N. Y.
Coghlan, Jos. T. & Co., E Lehigh av & Edgemont, Phila., Pa.
Delany & Co., 209 N 3d, Philadelphia, Pa.
Eagle Glue & Curled Hair Co., 2 Dover, New York
Gordon Bros., Pierce & Orthodox, Phila., Pa.
Grover, Jno. D. & Son, 2800 Tulip, Phila., Pa.
Horwick-Vitkin Co. (Cattle Hair), 2455 Archer, Chicago, Ill.
Mitchell, P. R. Co., Cincinnati, O.
Reardon Mfg. Co., 1553 N B'way, St. Louis, Mo.
Ritchie, Geo. B. & Co., 57 Ferry, New York
Smith, Oscar & Son Co. (Inc.), 310 Spruce,
Swift & Co., Chicago, Ill. Phila., Pa.
Tunnell & Co., F. W., 15 N 5th, Phila., Pa.
Union Curled Hair Co., Hyde Park, Mass.
Wilkins, Wm. Co., Baltimore, Md.
Woll, F. P. & Co., Orthodox & Josephine, Philadelphia, Pa.
Woll, Peter & Sons Mfg. Co., 170 Berks, Philadelphia, Pa.
Zeidman, M. Hair Cloth Co., 2S10 Throop, Chicago, Ill.

## 4396—Hair Dryers (Electric)

Birtman, C. F. Co., 152 E Lake, Chicago, Ill.
Camp Co., La Crosse, Wis.
Electric Mfg. Co., San Francisco, Cal.
Fidelity Electric Co. ("Universal"), Lancaster,
Halliwell & Co., 109 E 12th, New York Pa.

## 4397— Halters

Alexandria Halter Factory (Rope, Leather & Web), Alexandria, O.
Buffalo Weaving & Belting Co. (Web), Buffalo, N. Y.
California Tanning Co. (Leather), St. Louis,
Cooper, Otway (Rope), Urbana, O. Mo.
Covert Mfg. Co. (Rope & Web), Troy, N. Y.
Coverts Saddlery Co. (Rope & Leather), Interlaken, N. Y.
Floyd & Bohr Co. (Leather), Louisville, Ky.
Franklin Cotton Mills Co. (Web), Cincinnati, O.
Gem Hammock & Fly Net Co. (Leather), Milwaukee, Wis.
Graton & Knight Mfg. Co. (Leather), Worcester, Mass.
Holyoke Halter Mfg. Co. (Leather), Holyoke, Mass.
Nott, W. S. Co. (Leather), Minneapolis, Minn.
Planet Mfg. Co. (Web), Westfield, Mass.
Rose, P. & Son, Baltimore, Md.
Rugg, E. T. & Co. (Leather, Rope & Web) Newark, O.
Russell Mfg. Co. (Web), Middletown, Conn.
Smith & Stoddard Co. (Leather), 227 Washington, Chicago, Ill.
Western Rawhide & Belting Co. (Leather), Milwaukee, Wis.

## 4398—Hames (Mine & Lumbering)

Beagle Hame Works, Freeland, Pa.
Kugler, Clarence B. Jr. & Co., Land Title bldg, Phila., Pa.
Olewine, Wm. & Son, Hazleton, Pa.
Pittsburg Harness Supply Co., Pittsburg, Pa.
Seitz, Benj., Hometown, Pa.
Shrewsbury Home Works, Shrewsbury, Pa.
Strecker Bros. Co., Marietta, O.
Stratton, J. P. & Son, Sullivan, Ind.
U. S. Hame Co., Buffalo, N. Y.

## 4399—Hames (Steel & Wood)

American Hame & Mfg. Co. (Steel), New Albany, Ind.
Bellefontaine Hame Co., Bellefontaine, O.
Berry, Chas. E. (Steel), Somerville, Mass.
Easterbrook, Wm. (Metal), 311 Cherry, Phila., Pa.
Frazer & Jones Co. (Steel & Wood), Syracuse, N. Y.
Hale, Geo. C. (Steel), Kansas City, Mo.
Mixdorff-Krein Mfg. Co. (Wood), St. Louis, Mo.
Sargent Mfg. Co. (Steel), Newark, O.
Sherman Hame Co. (Wood), Sherman, Tex.
Smith, F. H. Mfg. Co. (Steel), 321 St. John court, Chicago, Ill.
Star Hame Mfg. Co. (Wood), Blanchester, O.
Starr, W. C. & Son (Iron), Richmond, Ind.
U. S. Hame Co. (Steel & Wood), Buffalo, N. Y.

## 4400—Hammers (Blacksmiths')

American Shovel & Stamping Co., Lorain, O.
Atha Tool Co. (Flatters, Set, Hand, etc.), Newark, N. J.
Beall Bros. (Inc.) (Flatters, Set, etc.), Alton, Ill.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Champion Tool Co. ("Champion"), Meadville, Pa.
Cheney, Henry, Hammer Co., Little Falls, N. Y.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Fisher & Norris, Trenton, N. J.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Heller Bros. Co., Newark, N. J.
Hubbard & Co., Pittsburg, Pa.
Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Isele, A. W. & Son, 51 Pitt, Boston, Mass.
Jones & Laughlins Steel Co., Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Maydole, David Hammer Co., Norwich, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Phillips, F. & Son, Baltimore, Md.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
Warner-Hammer Co., Cromwell, Conn.

## 4401—Hammers (Blacksmiths', Foot Power)

BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)
Sterling Machine Co. ("Sterling"), Sterling, Ill.

## 4402—Hammers (Board Drop)

BLISS, E. W. CO., Brooklyn, N. Y. (See adv. index & branch offices, end of book)
BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)
Williams, White & Co. (Friction), Moline, Ill.

## 4403—Hammers (Boiler Makers')

(See also Pneumatic Boiler Makers' Hammers)
Atha Tool Co., Newark, N. J.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Evansville Tool Works, Evansville, Ind.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Isele, A. W. & Son, 51 Pitt, Boston, Mass.
Maydole, David Hammer Co., Norwich, N. Y.

## 4404— Hammers (Brass)

Goodell-Pratt Co., Greenfield, Mass.

## Hammers (Brick)

(See Hammers, Masons')

## 4405— Hammers (Bush)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Brunner & Lay, 570 W Polk, Chicago, Ill.
Evansville Tool Works, Evansville, Ind.
Hauck, Wm. J., Kansas City, Mo.
Livingston Mfg. Co., Rockland, Me.
Mack & Co., Rochester, N. Y.
Phillips, F. & Son, Baltimore, Md.
Trow & Holden, Barre, Vt.

## 4406—Hammers (Carpet Layers')

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 4407—Hammers (Chain Link)

Turner, Vaughn & Taylor Co. (Foot & Power), Cuyahoga Falls, Ohio

## 4408— Hammers (Chipping)

Atha Tool Co., Newark, N. J.
BERNZ, OTTO, 21 Ashland av, Newark, N. J. (See adv. index, end of book)
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
COATES CLIPPER MFG. CO. (Electric), Worcester, Mass. (See adv. index, end of book)
Hanna Engineering Works ("Ajax," Electric Foundry), 2059 Elston, Chicago, Ill.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Maydole, David Hammer Co. (Crucible Steel), Norwich, N Y.
Phillips, F. & Son, Baltimore, Md.

## 4409— Hammers (Claw)

ARCADE MFG. CO. (Cast), Freeport, Ill. (See adv. index, end of book)
Atha Tool Co., Newark, N. J.
Cheney, Henry Hammer Co., Little Falls, N. Y.
Franklin Specialty Co. ("Cracker Jack" Nickel Plated), Reading, Pa.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Hammond, C. & Son, Ogontz, Pa.
Humason & Beckley Mfg. Co. (Carpenters), New Britain, Conn.
Maydole, David, Hammer Co., Norwich, N. Y.
Rocky Hill Hardware Co., Rocky Hill, Conn.
Stover Mfg. Co. ("Ideal," Cast), Freeport, Ill.

## 4410—Hammers (Concrete Bush)

(See also Hammers, Bush)
RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

## 4411—Hammers (Concrete Tooling)

Phillips, F. & Son., Baltimore, Md.
RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

## 4412—Hammers (Confectioners')

Erie Specialty Co. (And Hatchet Combined), Erie, Pa.

## 4413— Hammers (Coopers')

Atha Tool Co., Newark, N. J.
Bradley's G. W. Sons, Westport, Conn.
Drew, C. & Co., Kingston, Mass.
Maydole, David Hammer Co., Norwich, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.

## 4414— Hammers (Copper)

Eureka Tempered Copper Wks, North East, Pa.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
Hussey, C. G. & Co., Pittsburg, Pa.
McNab & Harlan Mfg. Co., 56 John, New York
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch index, end of book)
More-Jones Brass & Metal Co., St. Louis, Mo.
New York Washer & Gasket Co., Brooklyn, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 4415—Hammers (Drilling & Striking)

American Shovel & Stamping Co., Lorain, O.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.

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Evansville Tool Works (Up to 5 lbs.), Evansville, Ind.
Fulton Tool Works, Canal Fulton, O.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Hardscog, Martin Co., N S, Pittsburg, Pa.
Hubbard & Co. (Striking), Pittsburg, Pa.
Humason & Beckley Mfg. Co. ("H. & B. Cast Steel), New Britain, Conn.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Phillips, F. & Son, Baltimore, Md.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
Warner-Hammer Co., Cromwell, Conn.
Warwood Tool Co., Wheeling, W. Va.
What Cheer Tool Co., What Cheer, Ia.

## 4416— Hammers (Drop)

(See also Presses, Drop)

Alliance Machine Co., Alliance, O.
Atlas Mfg. Co., Fostoria, O.
Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Bremer Machine & Tool Co. (Also Spring Hammers), Kalamazoo, Mich.
**BUFFALO FOUNDRY & MACHINE** Co. ("Bell"), Buffalo, N. Y. (See adv. index, end of book)
Cady Machine Co., Cleveland, O.
**CANTON FOUNDRY & MACHINE CO.** ("Universal," Non-Crystallizing Housing), Canton, O. (See adv. index, end of book)
Chambersburg Engineering Co. (Steam), Chambersburg, Pa.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Erie Foundry Co. (Steam), Erie, Pa.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**LONG & ALLSTATTER CO. (Heavy,** for Bending, Drop Forging, Forming, Stamping, etc.; Belt, Motor & Steam Driven), Hamilton, O. (See adv. index, end of book)
Massillon Foundry & Machine Co. ("Lane" Steam), Massillon, O.
**MERRILL BROS., 5 William, Mas**peth (Borough of Queens), New York. (See adv. index, end of book)
Michigan Press Co. ("Michigan"), Ypsilanti, Mich.
Miner & Peck Mfg. Co., New Haven, Conn.
**MORGAN ENGINEERING CO., Alli**ance, O. (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL** Works, c Superior & Randall, Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Perkins Machine Co. (Hand Power & Compressed Air), Warren, Mass.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty,** New York. (See adv. index & branch offices, end of book)
**RYERSON, JOS. T. & SON. 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Standard Machinery Co., Providence, R. I.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Williams, White & Co. (Crank Lift & Twin Drop), Moline, Ill.
Wood, Wm. H., Media, Pa.

## Hammers (Engineers')

(See Hammers, Blacksmiths')

## 4417— Hammers (Farriers')

(See also Hammers, Blacksmiths')

Atha Tool Co., Newark, N. J.
Champion Tool Co., Meadville, Pa.
Cheney, Henry Hammer Co., Little Falls, N. Y.
Evansville Tool Works, Evansville, Ind.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Heller Bros. Co., Newark, N. J.
Maydole David Hammer Co., Norwich, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.

## 4418—Hammers (Foot Power)

**ARCADE MFG. CO. ("Freeport"),** Freeport, Ill. (See adv. index, end of book)
Kerrihard Co. ("Kerrihard"), Red Oak, Iowa
Novelty Iron Works ("Boss," for Plow, Wagon Heavy Work), Dubuque, Iowa
Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.
Vulcan Iron Works ("Vulcan"), Mason City, Ia.

## Hammers (Granite Cutters')

(See Hammers, Stone Cutters')

## 4419— Hammers (Helve)

Bradley, C. C. & Son (Cushioned), Syracuse, N. Y.
**ELMES, CHAS. F. ENGINEERING** Works (Steam), cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Foglesong Machine Co. ("Dayton" Spring-Cushioned), Dayton, O.
**LONG & ALLSTATTER CO. (Adjust**able Cushioned, Belt, Motor or Steam Driven), Hamilton, O. (See adv. index, end of book)
Niles-Bement-Pond Co. (Rubber Cushioned), 111 B'way, New York
Novelty Iron Works (G. E. Davis, Prop.) ("Helva"), Dubuque, Ia.
West Tire Setter Co. ("Rochester"), Rochester, N. Y.

## 4420—Hammers (Interchangeable)

Greene, Tweed & Co. ("The Colvin," with Rawhide, Wood or Copper Head), 109 Duane, New York

## 4421— Hammers (Justice)

Williams, White & Co., Moline, Ill.

## 4422—Hammers (Locomotive Frame Welding)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alli**ance, O. (See adv. index & branch offices, end of book)

## 4423—Hammers (Macadamizing)

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.

## 4424—Hammers (Machinists')

American Shovel & Stamping Co., Lorain, O.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
**BUFFUM TOOL CO. (One Style Only,** Ball Pein, Sixes 4 oz. to 40 oz. Inclusive), Louisiana, Mo. (See adv. index & branch offices, end of book)
Cheney, Henry Hammer Co., Little Falls, N Y
Evansville Tool Works, Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash, Chicago, Ill. (See adv. index & branch offices, end of book)
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Heller Bros. Co., Newark, N. Y.
Humason & Beckley Mfg. Co. ("H. & B.," Cast Steel), New Britain, Conn.
Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Smith, H. D. & Co. ("Perfect Handle" Drop Forged), Plantsville, Conn.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
Vaughan & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.
Warner-Hammer Co., Cromwell, Conn.

## 4425— Hammers (Magnet)

**ARCADE MFG. CO. ("Longden"),** Freeport, Ill. (See adv. index, end of book)
Robertson, Arthur R. (Horseshoers, Tack, Bill Posters, etc.), 144 Oliver, Boston, Mass.
Rocky Hill Hardware Co., Rocky Hill, Conn.
Taplin Mfg. Co. ("Victor"), New Britain, Conn.

## 4426— Hammers (Masons')

American Shovel & Stamping Co., Lorain, O.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Black, John B. (Also Bricklayers'), Chester, Pa.
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Drew, C. & Co., Kingston, Mass.
Evansville Tool Works, Evansville, Ind.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
**Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.**
Iron City Tool Works, Pittsburg, Pa.
Isele, A. W. & Son, 51 Pitt, Boston, Mass.
Klein-Logan Co., Pittsburg, Pa.
Marshalltown Trowel Co. (Brick), Marshalltown, Ia.
Maydole, David Hammer Co., Norwich, N. Y.
Phillips, F. & Son, Baltimore, Md.
Plumb, Fayette R. (Inc.), Frankfford, Phila., Pa.
Schueddig, F. Son, St. Louis, Mo.
Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.
Warner-Hammer Co., Cromwell, Conn.
Warwood Tool Co., Wheeling, W. Va.
White, L. & I. J. Co., Buffalo, N. Y.

## 4427— Hammers (Mill)

Phillips, F. & Son, Baltimore, Md.

## Hammers (Nail)

(See Hammers, Tack & Nail)

## 4428— Hammers (Napping)

American Shovel & Stamping Co., Lorain, O.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.

## 4429— Hammers (Pavers')

Ames Plow Co., Quincy Hall, Boston
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co. (Belgian), Newark, N. J.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Evansville Tool Works, Evansville, Ind.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Isele, A. W. & Son, 51 Pitts, Boston, Mass.
Phillips, F. & Son, Baltimore, Md.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Schueddig, F. Son, St. Louis, Mo.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Western Tool & Forge Co., Brackenridge, Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 4430—Hammers (Pile Drivers')

**AMERICAN HOIST & DERRICK CO., St. Paul, Minn.** (See adv. index & branch offices, end of book)
Bartlett, A. F. & Co. ("Cram" Steam Hammer), Saginaw, Mich.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Browning Engineering Co., Cleveland, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Contractors' Plant Mfg. Co., 125 Erie, Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**McCOY, HENRY J. CO. ("New Monarch" Automatic Double Acting), 65-67** Dey, New York. (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)

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**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
South St. Louis Foundry, 7516 S B'way, St. Louis, Mo.
Superior Iron Works Co., Superior, Wis.
Toledo Foundry & Machine Co., 202 Cherry, Toledo, O.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Union Iron Works ("Arnott" Steam), Hoboken, N. J.
Vulcan Iron Works ("Warrington" Steam), 327 No Irving av, Chicago, Ill.

## 4431—Hammers (Plumbers')

Atha Tool Co., Newark, N. J.
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
**BUFFUM TOOL CO. (Calking, etc.),** Louisiana, Mo. (See adv. index & branch offices, end of book)

## 4432— Hammers (Power)

Alliance Machine Co., Alliance, O.
Beaudry & Co. (Inc.), 141 Milk, Boston, Mass.
**BLISS, E. W. Co., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Bradley, C. C. & Son, Syracuse, N. Y.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Central Machine Works Co. (The "Force"), Minneapolis, Minn.
Chambersburg Engin'g Co., Chambersburg, Pa.
Caldwell, E. R. Co. ("Scranton"), Bradford, Pa.
Dienelt & Eisenhardt ("Dead Stroke" Spring), 1302 N Howard, Philadelphia, Pa.
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index end of book)
Grinnell Mfg. Co. ("Modern"), Grinnell, Ia.
Hawkeye Mfg. Co. ("Hawkeye"), Cedar Rapids, Ia.
Hess Machine Works, 2512 Callowhill, Phila., Pa.
Howe Scale Co., Rutland, Vt.
Johnston & Jennings Co. ("American"), Cleveland, O.
Justice, Philip S. & Co. ("Justice" Spring), 421 Chestnut, Phila., Pa.
Kane & Roach, Syracuse, N. Y.
Kauffman, J. A. ("Kauffman's"), Miamisburg, O.
Kerrihard Co. ("Kerrihard"), Red Oak, Iowa
Leonhardt, Chas. ("Leonhardt" Adjustable), New Ulm, Minn.
**LONG & ALLSTATTER CO. (Belt,** Motor or Steam Driven), Hamilton, O. (See adv. index, end of book)
Macgowan & Finnigan Foundry & Machine Co. ("Perfect" Trip), St. Louis, Mo.
Mayer Bros. (Inc.) ("Little Giant"), Mankato, Minn.
**MERRILL BROS. (Air Cushion), 5** William, Maspeth (Borough of Queens), New York. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance, Ohio.** (See adv. index & branch offices, end of book)
Nebraska Mfg. Co. ("Little John"), Lincoln, Neb.
New Metal Tool Steel Co., Standard, Me.
Niles-Bement-Pond Co., 111 B'way, New York
Novelty Iron Works (G. E. Davis, Prop.) ("Helva" & "Boss"), Dubuque, Ia.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Radial Power Hammer Co. (Radial), Los Angeles, Cal.
Star Foundry Co. ("Star"), Albert Lea, Minn.
Sterling Machine Works ("Sterling," for Carriage Builders, Blacksmiths, etc.), Sterling, Ill.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
Turner, Vaughn & Taylor Co. (For Making Chain Only), Cuyahoga Falls, O.
Vulcan Iron Works ("Vulcan"), Mason City, Ia.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Williams, White & Co. ("Yeakley," Justice), Moline, Ill.

## Hammers (Rawhide)

(See Mallets, Rawhide)

## 4433— Hammers (Riveting)

(See also Pneumatic Riveters)

Atha Tool Co. (All Kinds), Newark, N. J.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)
Champion Tool Co. ("Champion"), Meadville, Pa.
Cheney, Henry, Hammer Co., Little Falls, N. Y.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Hammond, C. & Son, Ogontz, Pa.
Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Stover Mfg. Co., Freeport, Ill.
Warner-Hammer Co., Cromwell, Conn.
Western Tool & Forge Co., Brackenridge, Pa.

## 4434—Hammers (Rotary Riveting)

Williams, White & Co., Moline, Ill.

## 4435— Hammers (Saddlers')

Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.

## 4436—Hammers (Saw Setting)

Covel Mfg. Co., Benton Harbor, Mich.
Hanchett Sewage Works, Big Rapids, Mich.
Menominee Saw Co., Menominee, Mich.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.


# Hendricks' Commercial Register

OF THE

UNITED STATES

Price, Ten Dollars | Express Charges Prepaid | ESTABLISHED 1891

It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of Trade that comes within the Scope of the Work.

Price, Ten Dollars | Express Charges Prepaid | ESTABLISHED 1891

# For Buyers and Sellers

PUBLISHED ANNUALLY BY

S. E. Hendricks Co., 74 Lafayette Street, New York City


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## 4437—Hammers (Shoemakers')

Franklin Specialty Co. ("Our Hub"), Reading, Pa.
Osborne, C. S. & Co., Harrison, N. J.
South Bend Foundry Co., South Bend, Ind.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.

## 4438— Hammers (Slaters')

(See also Tools, Slaters')

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Belden Machine Co., New Haven, Conn.
Evansville Tool Works, Evansville, Ind.
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Harvey, H. H., Boston, Mass.
Isele, A. W. & Son, 51 Pitts, Boston, Mass.
Stortz, Jno. & Son., 210 Vine, Phila., Pa.

## 4439— Hammers (Steam)

Alliance Machine Co., Alliance, O.
**BUFFALO FOUNDRY & MACHINE** Co. ("Bell"), Buffalo, N. Y. (See adv. index, end of book)
Chambersburg Engineering Co. (Single & Double Frame), Chambersburg, Pa.
Cockburn Co., Jersey City, N. J.
**DUDGEON, RICHARD, 24 Columbia,** New York. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works (Helve), c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Erie Foundry Co. ("Erie," Single & Double Frame), Erie, Pa.
Kline, Lewis T., Alpena, Mich.
McDougal & Potter Co, 606 W 55th, New York
Massillon Foundry & Machine Co. ("Lane" Forge), Massillon, O.
Mesta Machine Co., Pittsburg, Pa.
**MONIGHAN MACHINE CO. ("American,"** Single & Double Frame), 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)
**MORGAN ENGINEERING CO. (Single** & Double Stand), Alliance, O. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co. (Single, Double & Open Frame), 111 B'way, New York
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Q. M. S. Co., Plainfield, N. J.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
**TRETHEWEY, SAMUEL & CO. (Es-**pecially for Tool Steel), 47th, Pittsburg, Pa. (See adv. index, end of book)

## 4440—Hammers (Stone Cutters')

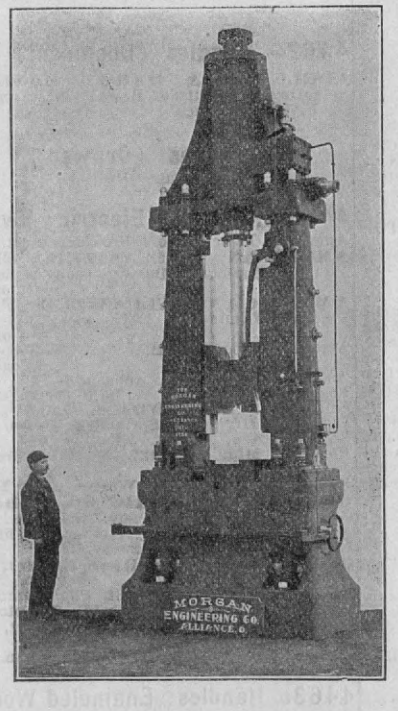
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co. (All Kinds), Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Evansville Tool Works, Evansville, Ind.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Harvey, H. H., 608 Atlantic av., Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.
Iron City Tool Co., Pittsburg, Pa.
Isele, A. W. & Son, 51 Pitt, Boston, Mass.
Klein, Logan Co., Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Maydole, David Hammer Co., Norwich, N. Y.
Phillips, F. & Son, Baltimore, Md.
Plumb, Fayette R. (Inc.), Frankford, Phila, Pa.
Schueddig, F. Son, 525 S Jefferson av, St. Louis, Mo.
Trow & Holden, Barre, Vt.
Vulcan Tool Mfg. Co., Quincy, Mass.
Warner-Hammer Co., Cromwell, Conn.
Warwood Tool Co., Wheeling, W. Va.
White, L. & I. J. Co., Buffalo, N. Y.

## Hammers (Striking)

(See Hammers, Drilling & Striking)

## 4441—Hammers (Tack & Nail)

**ARCADE MFG. CO. (Cast Claw, etc.),** Freeport, Ill. (See adv. index, end of book)
Atha Tool Co. ("J. Rose," "Russell," also Patented Nail Holding), Newark, N. J.
Billings & Spencer (Tack Hammer & Puller Combined), Hartford, Conn
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Chantrell Tool Co. (Cast Iron & Steel), Reading, Pa.
Cheney, Henry Hammer Co., Little Falls, N. Y.
Denison Mfg. Co. (Tack), Warren, O.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Evansville Tool Works, Evansville, Ind.
Franklin Specialty Co. ("Cracker Jack," "Korker," "Winner"), Reading, Pa.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Gilford, F. E. & Son (Combination), Concord, N. H.
Hammond, C. & Son, Ogontz, Pa.
Hardware & Woodenware Mfg. Co. ("Brighton" & "L. & S. I. Co."), 693 B'way, New York
Heller Bros. Co., Newark, N. J.
Henry, John T. Mfg. Co., Hamden, Conn.
Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.
Kennedy Mfg. Co. (Magazine Tack, etc.), Easton, Mass.
Kilborn & Bishop Co. ("K. & B."), New Haven, Conn.
Landers, Frary & Clark, New Britain, Conn.
Maydole, David Hammer Co. (Nail Only), Norwich, N. Y.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co. ("Forest City" Solid Steel), Southington, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Piper Mfg. Co., Winchendon, Mass.
Robertson, Arthur R. (Magnetic), 144 Oliver Boston, Mass
Rocky Hill Hardware Co., Rocky Hill, Conn.
Sayre, L. A. Co., Newark, N. J.
**SMITH & HEMENWAY CO. ("Red** Devil," also Combination), 150 Chambers, New York. (See adv. index, end of book)
Stanley Rule & Level Co., New Britain, Conn.
Stover Mfg. Co. (Cast), Freeport, Ill.


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Troy Nickel Works (Jno. E. Gaitley, Prop.) (Alaska, Solid Steel, Full Nickel Plated), Albany, N. Y.
Vaughn & Bushnell Mfg. Co. ("Adze Eye Drop Forged), 2130 Carroll av, Chicago, Ill.
Williams, A. C. Co., Ravenna, O.
Williams, C. A. & Co., Skowhegan, Me.
Wrightsville Hardware Co., Wrightsville, Pa.

## 4442—Hammers (Tile Setters')

Braunsdorf-Mueller Co., Elizabeth, N. J.
Maydole, David Hammer Co., Norwich, N. Y.

## 4443— Hammers (Tinners')

Atha Tool Co., Newark, N. J.
Cheney, Henry, Hammer Co., Little Falls, N.Y.
Evansville Tool Works, Evansville, Ind.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Maydole, David, Hammer Co., Norwich, N.Y.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co. (Riveting, Setting, etc.), Southington, Conn.

## Hammers (Tire Welding)

(See Tire Welding Machines)

## 4444— Hammers (Trip)

(See also Hammers, Power)

Diamond Iron Works ("Iron Store Giant"), Minneapolis, Minn.
Kauffman, J. A., Miamisburg, O.
Kerrihard Co. ("Kerrihard"), Red Oak, Iowa
Macgowan & Finnigan Foundry & Machine Co. ("Perfect"), St. Louis, Mo.
Mayer Bros. ("New Little Giant" & "The Easy"), Mankato, Minn.
**MERRILL BROS., 5 William, Mas**peth (Borough of Queens), New York. (See adv. index, end of book)
Modern Sales Co. ("New Modern"), Hampton, Iowa
Novelty Iron Works ("Boss," for Plow, Wagon & Heavy Work), Dubuque, Iowa

## 4445—Hammers (Upholsterers')

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Atha Tool Co., Newark, N. J.
Dicke Tool Co., Downer's Grove, Ill.
Franklin Specialty Co. ("Franklin"), Reading, Pa.
Germantown Tool Works, 521 Market, Gtn., Phila., Pa.
Johnson, William (Hedenberg Works), Newark,
Kraeuter & Co., Newark, N. J. N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.
Stanley Rule & Level Co., New Britain, Conn.
Wrightsville Hardware Co. ("Brighton"), Wrightsville, Pa.

## 4446— Hammers (Vacuum)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
Williams, White & Co. ("Yeakley"), Moline, Ill.

## 4447— Hammock Mfrs.

Bickford Bros. Co., Rochester, N. Y.
Brayshaw, Jas., North Weymouth, Mass.
Excelsior Bag & Mfg. Co. ("Excelsior", Couch), Troy, N. Y.
Fowler Net & Twine Co., 107 S 2d, Phila., Pa.
Gem Hammock & Fly Net Co., Milwaukee, Wis.
Goodall Hammock Co., Rockfall, Conn.
Hettrick Bros. Co., Toledo, O.
Hoffman-Carr Mfg. Co. (Globe-Lion Brand), 413 Chestnut, Phila., Pa.
Hohlfeld Mfg. Co., 8th & Dauphin, Phila., Pa.
Hough Shade Corporation, Janesville, Wis.
La Crosse Hammock Works, La Crosse, Wis.
Palmer, I. E. Co., Middletown, Conn.
Patterson Mfg. Co., E Indiana cor A, Phila., Pa.
Shoyer, D. W. & Co. ("Acme"), 394 B'way, New York
Sun Mfg. Co. ("Sunshine" for Porches, etc.), Columbus, O.
Thomas, T. B. & Co., Quincy, Mass.
Western Hammock Co., La Crosse, Wis.
Weston & Wells Mfg. Co., 1110 Noble, Phila., Pa.

## Hampers

(See Baskets, Hampers, Etc.)

## 4448— Hands Rails (Steel)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)

## 4449—Handcuffs & Twisters

Tower & Lyon Co., 95 Chambers, New York
Wilkinson Mfg. Co., Binghamton, N. Y.

## 4450—Handles (Adjustable Auger)

Bonney Vise & Tool Works (Inc.) ("Hayes"), Allentown, Pa.
Millers Falls Co. ("Rogers," Gun's Ratchet), 28 Warren, New York
Peck, Stow & Wilcox Co. ("Peck's" Patent), Southington, Conn.
Southington Mfg. Co., Southington, Conn.
Swan, James Co. ("Swan's"), Seymour, Conn.

## 4451—Handles (Agricultural Tool)

Columbus Handle & Tool Co., Columbus, Ind.
Hanover Plow Handle Co. (Oak), Hanover, Pa.
Harris Mfg. Co., Johnson City, Tenn.
Piqua Handle & Mfg. Co., Piqua, O.

## 4452— Handles (Ash Can)

Harvey Forging Co., Racine, Wis.

## 4453—Handles (Automobile)

Turner Brass Works, Sycamore, Ill.

## 4454—Handles (Automobile Steering Wheel)

Ely Mfg. Co., Detroit, Mich.

## 4455— Handles (Boiler)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Berger Bros. Co., 237 Arch, Phila., Pa.
Griswold Mfg. Co., Erie, Pa.
Indiana Mfg. Co., Jeffersonville, Ind.
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H.
Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works (Jno. E. Gaitley, Prop.) (Also Drop Handles, etc.), Albany, N. Y.
Weller Hdw. & Foundry Co. (Or Milk Can), Horseheads, N. Y.
Wire Specialty Works (Wire), 549 Fulton, Chicago, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

## 4456— Handles (Bone)

Armour & Co., Chicago, Ill.
Randolph, Wm. C. (Wisk Broom, etc.), 213 Arch, Phila., Pa.
Rogers Mfg. Co., Rockfall, Conn.
Rogers & Hubbard Co., Middletown, Conn.
Winterbottom, Carter & Co., Egg Harbor City, N. J.
Wohl, Smil Mfg. Co. (Broom, Brush, etc.), Nicetown, Phila., Pa.

## 4457—Handles (Brake or Controller)

(See also Wheels, Rachet Brake)

Adams & Westlake Co., Chicago, Ill.
Baker, Jno. S. ("Beverly," Ratchet Clutch), Beverly, Mass.
Brill, J. G. Co. (Brass & Malleable Iron), 62d & Woodland av, Phila., Pa.
Columbia Machine Works & Malleable Iron Co. (Adjustable), 269 Chestnut, Brooklyn, N. Y.
Dayton Mfg. Co. ("Dayton" Gravity, etc.), Dayton, O.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Ohio Brass Co., Mansfield, O.
Sterling-Meaker Co., 420 Ogden, Newark, N. J.

## 4458—Handles (Canthook & Peavey)

American Logging Tool Co., 150 Michigan, Chicago, Ill.
Evart Tool Co. (Ltd.), Evart, Mich.
Harris Mfg. Co., Johnson City, Tenn.
Hartwell, C. L. & Co., Chicago Heights, Ill.
Oshkosh Mfg. Co., Oshkosh, Wis.
Piqua Handle & Mfg. Co., Piqua, O.
Strock, L. W. & Co., Bethlehem, Pa.
Titusville Handle Co., Titusville, Pa.

## 4459— Handles (Chest)

American Foundry & Mfg. Co., St. Louis, Mo.
Carondolet Foundry Co., St. Louis, Mo.
Champion Safety Lock Co., Geneva, O.
Chicago Hardware Fdry Co., North Chicago, Ill.
Clark Mfg. Co., Buffalo, N. Y.
Edwards, O. M. Co., Syracuse, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
National Supply Co., Baltimore, Md.
Ney Mfg. Co., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co. (Surface & Flush Patterns), Freeport, Ill.
Taylor & Baggis Foundry Co., Cleveland, O.
Weller Hardware & Fdry Co., Horseheads, N. Y.
Western Implement Co., Port Washington, Wis.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co. (Surface), Wrightsville, Pa.

## Handles (Circuit Breaker)

(See Handles, Electric Switch)

## 4460—Handles (Controller Regulating)

Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Electric Service Supplies Co. ("Durkin Automoloneer"), Phila., Pa.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Lord Electric Co. ("Cosper"), 213 W 40th, New York

## 4461— Handles (Die Stock)

National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

## Handles (Door)

(See Pulls, Door)

## 4462— Handles (Document)

**VOELKNER & HARRY MANUFAC**turing Co. (Polished Brass), 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

## Handles (Drawer)

(See Pulls, Drawer)

## 4463—Handles (Electric Switch)

American Enamel Co., Providence, R. I.
**AMERICAN VULCANIZED FIBRE** Co., Wilmington, Del (See adv. index, end of book)
**AMERICAN VULCANIZED FIBRE** Co., Wilmington, Del. (See adv. index, end of book)
American Wood Working Co., 4345 Wabansia av, Chicago, Ill.
Auburn Button Works, Auburn, N. Y.
Bogert & Hopper, 162 William, New York
Colebrook Mfg. Co., Winsted, Conn.
Dickinson Mfg. Co., Springfield, Mass.
Eby Mfg. Co., Detroit, Mich.
Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
Estes, E. B. & Sons, 74 Warren, New York
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Novelty Turning Co., Norway, Me.
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H.
Rauscher, Jno., 30 W 3d, St. Paul, Minn.
Scranton Button Co. (Electroid), Scranton, Pa.
Siemon Hard Rubber Corp., Bridgeport, Conn.
Stiles, H. A. & Co., Boston, Mass.
Union Hardware Co., Torrington, Conn.

## 4463a—Handles (Enameled Wood)

Baker, McMillen Co., Akron, O.

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## 4464— Handles (File)

Allen, Chas. I., Pequabuck, Conn.
Baker, McMillen Co., Akron, O.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Champion Tool Co. ("Champion"), Meadville, Pa.
Corry Handle & Novelty Co., Corry, Pa.
Erie City Mfg. Co., Erie, Pa.
Lutz File Co. ("Beatemall"), Cincinnati, O.
Niagara Handle & Ferrule Co. ("Neversplit"), Baltimore, Md.
**NICHOLSON FILE CO., Providence,** R. I. (See adv. index & branch offices, end of book)
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H.
Osgood, J. L. ("Osgood," Indestructible Wood), Erie County Bank bldg, Buffalo, N. Y.
Piqua Handle & Mfg. Co., Piqua, O.
Robinson, M. W. Co. ("Lock Jaw", "Rollis"), 88 White, New York
Russell & Erwin Mfg. Co., New Britain, Conn.
Shriver, O. P. & Co. (Malleable Iron, "I-X-L"), 208 Elm, Cincinnati, O.
Simonds File Co., Fitchburg, Mass.
Stearns, E. C. & Co., Syracuse, N. Y.
Troy File Works ("Best"), Troy, N. Y.

## 4465— Handles (Hammer)

Beamer Handle Co., Manor, Pa.
Corry Handle & Novelty Co., Corry, Pa.
Graves, E. W. (Hickory), Des Arc, Mo.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Harrison Supply Co. (Connecticut Hickory), 5 & 7 Dorchester av Extension, Boston, Mass.
Peterson, Samuel (Ash, Hickory & Thornwood), Warren, Pa.
Piqua Handle & Mfg. Co., Piqua, O.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Warren Handle Works (Hickory, etc.), Warren, O.

## 4466— Handles (Hickory)

(See also Handles, Wood)

Acme Handle Co., Merchants, Laclede bldg., St. Louis, Mo.
Blackstone Hand-shaved Handle Co., Blackstone, Va.
Central Mfg. Co., Kansas City, Mo.
Consolidated Handle Co., Tullahoma, Tenn.
Eldon Handle Co., Meta, Mo.
**FAIRBANKS, MORSE & CO. (Adze,** Axe, Pick & Maul), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Frankfort Handle Mfg. Co., Frankfort, Ind.
Galax Handle Works (Ltd.), Galax, Va.
Graves, E. W. (Axe, Pick, Hatchet, Sledge, etc.), Des Arc, Mo.
Hardwood Specialty Co., Memphis, Tenn.
Hartwell, C. L. & Co. (Fork, Hoe, Shovel, etc.), Chicago Heights, Ill.
Ivory Handle Co., Hope, Ark.
Kile Mfg. Co. (Hammer, Hatchet & Tool), Akron, O.
Payne, J. N. & Son, Morganton, N. C.
Peterson, Samuel (Pick, Axe, Hammer, etc.), Warren, Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Pontiac Turning Co., Pontiac, Mich.
Rock River Mfg. Co., Dixon, Ill.
Rogers-Meiser Handle Co., Paragould, Ark.
Standard Handle Co., Knoxville, Tenn.
Strock, L. W. & Co., Bethlehem, Pa.
Turner, Day & Woodworth Co., Louisville, Ky.
Unaka Handle Co., Johnson City, Tenn.
Warren Handle Works (All Kinds), Warren, Ohio
Wauseon Handle & Lumber Co. (All Kinds), Wauseon, Mo.
White, L. I. & J. Co. (Axe, etc.), Buffalo, N. Y.

## 4467— Handles (Insulated)

**AMERICAN VULCANIZED FIBRE CO.** (Hard Fibre), Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO. (Vul-** canized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO. (Hard** Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Hard** Fibre), Elsmere, Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY CO.** (Hard Fibre), Wilmington, Del. (See adv. index & branch offices, end of book)

## 4468— Handles (Ivory)

Grote, F. & Co., 312 E 23d, New York
Pratt, Reed & Co., Deep River, Conn.
Shardlow, Jos., 116 Fulton, New York

## 4469— Handles (Leather.)

Graton & Knight Mfg. Co. (Trunk, Suit & Sample Case, etc.), Worcester, Mass.
Nott, W. S. Co. (Trunk, etc.), Minneapolis, Minn.

## 4470— Handles (Machine)

Billings & Spencer Co., Hartford, Conn.
Cincinnati Ball Crank Co. (Steel), Cincinnati, Ohio
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
New Britain Hardware Mfg. Co., New Britain, Conn.
Page-Storms Drop Forge Co., Chicopee, Mass.
Rochester Drop Forge Co. (Finished), Rochester, N. Y.
Transue & Williams Co., Alliance, O.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Williams, J. H. & Co., 150 Hamilton, Brooklyn, N. Y.
Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

## 4471—Handles (Microphone)

Scranton Button Co. (Corrugated Desk or Microphone), Scranton, Pa.

## 4472— Handles (Plow)

Dugger & Goshorn, Memphis, Tenn.
Eureka Bending & Wheel Works, York, Pa.
Fayetteville Wood, Wagon & Lumber Co., Fayetteville, Ark.
Fort Smith Rim & Bow Co., Fort Smith, Ark.
Hanover Plow Handle Co. (Oak), Hanover, Pa.
Harriman Mfg. Co., Harriman, Tenn.
Harris Mfg. Co., Johnson City, Tenn.
Look & Lincoln, Marion, Va.
Phipps, J. H. Lumber Co., Fayetteville, Ark.
Reuter Hub & Spoke Co., Dexter, Mo.
Whyers, E. G. & Co., Metropolis, Ill.

## Handles (Rasp)

(See Handles, File)

## 4473— Handles (Ratchet)

Lord, L. L. Co. ("Lord"), Meadville, Pa.

## 4474—Handles (Ratchet Brake)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Brill, J. G. Co., 62d & Woodland av, Phila.,
Burns & Bassick Co., Bridgeport, Conn. Pa.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Ohio Brass Co., Mansfield, O.

## 4475— Handles (Sad Iron)

American Foundry & Mfg. Co., St. Louis, Mo.
Bless & Drake, Newark, N. J.
Chicago Hardware Fdry Co., North Chicago, Ill.
Cochrane, J. A., Cleveland, O.
Eby Mfg. Co., Detroit, Mich.
Enterprise Mfg. Co. ("Best"), 3d & Dauphin,
Fanner Mfg. Co., Cleveland, O. Phila., Pa.
Loetscher-Ryan Mfg. Co. ("B. O. E.," "O. C. Ezy"), Dubuque, Ia.
Ober Mfg. Co., Chagrin Falls, O.
Schrayer's, M. Sons & Co., 917 W 18th, Chicago, Ill.
Wheeling Stamping Co. ("Never Break," "Hold Fast"), Wheeling, W. Va.
Williams, A. C. Co., Ravenna, O.

## 4476— Handles (Saw)

Algood Mfg. Co. (Cross-Cut), Algood, Tenn.
Ely, T. J. Mfg. Co. (Cross Cut), Girard, Pa.
Indiana Small Handle Works, Fort Wayne, Ind.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 4477—Handles (Screw Driver)

Allen, Chas. I., Pequabuck, Conn.
Baker, McMillen Co., Akron, O.
Piqua Handle & Mfg. Co. (Wooden), Piqua, O.
Stanley Rule & Level Co., New Britain, Conn.
**STILES, H. A. & CO., 161 High,** Boston, Mass. (See adv. index, end of book)
Tuck Mfg. Co., Brockton, Mass.
White, L. & I. J. Co., Buffalo, N. Y.

## 4478—Handles (Soldering Iron)

Baker, McMillan Co. (Wood), Akron, O.
Erie City Mfg. Co. (Fireproof), Erie, Pa.
Piqua Handle & Mfg. Co. (Wooden), Piqua, O.
**STILES, H. A. & CO., 161 High,** Boston, Mass. (See adv. index, end of book)
Troy Nickel Works (Jno. E. Gaitley, Prop., Alaska Wire), Albany, N. Y.

## 4479— Handles (Tool)

(See also Handles, Various Kinds)

Buck, Clyde D. & Co. (Ash), Kokoma, Ind.
**PITTSBURGH GAGE & SUPPLY CO.** ("Best-Ov-All"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURG SHOVEL CO. (Ash &** Hickory), Oliver bldg, Pittsburg, Pa. Works: Leechburg, Pa. (See adv. index, end of book)
S. & I. Co. (Chisel, File, Hatchet, etc.), Springfield, Mass.
**SMITH & HEMENWAY CO. ("Red** Devil," Hollow), 150 Chambers, New York. (See adv. index, end of book)
**STILES, H. A. & CO., 161 High,** Boston, Mass. (See adv. index, end of book)
White, L. & I. J. Co. (Chisel, Screw Driver, Knife, etc.), Buffalo, N. Y.

## 4480— Handles (Trunk)

Okum Bros., Newark, N. J.

## 4481— Handles (Tub)

**STANLEY WORKS (Wrought Curved** Plate), New Britain, Conn. (See adv. index & branch offices, end of book)

## 4482— Handles (Valve)

Eby Mfg. Co. (Wooden), Detroit, Mich.
Gaitley, Jno. E. (Troy Nickel Works) (Alaska Wire), Albany, N. Y.
Matthews, H. A. Mfg. Co. ("Always Cold"), Seymour, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Piqua Handle & Mfg. Co. (Wooden), Piqua, O.
**STILES, H. A. & CO., 161 High,** Boston, Mass. (See adv. index, end of book)

## 4483—Handles (Window & Shutter)

**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)

## 4484 Handles (Wire Drop)

Stover Mfg. Co. (For Stoves, etc.), Freeport, Ill.

## 4485— Handles (Wood)

### ALABAMA.

CULLMAN—Geisen Handle Mfg. Co.
DECATUR—Turner, Davis & Woodworth
HALEYSVILLE—Lakeman, E. P.
HUNTSVILLE—Henderson, Murphree & Henderson

### ARKANSAS.

DARDANELLE—Eldon Handle Co.
FAYETTEVILLE—Charlesworth, Wm. Handle Co.
FORT SMITH—Fort Smith Handle Co.
HOPE—Ivory Handle Co. (Hickory)
JONESBORO—American Handle Co. (Hickory)
MARKET TREE—Turner & Hirschman
RECTOR—Hickory Handle Co. (Hickory)
PARAGOULD—Hickson Bros.
Paragould Handle Mfg. Co.
Rogers-Meiser Handle Co. (Axe, Cant Hook, Pick, Sledge, Hickory, etc.)
RECTOR—Rector Lumber Co.

### CONNECTICUT.

CLINTON—Kelsey, Horatio (Axe, Pick, Small Tools, etc.)
COLLINSVILLE—Hartigan, W. R. (Tool)

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DEEP RIVER—Williams & Marvin Mfg. Co. (Auger, Wrench, Ice Pick, etc.)
EASTFORD—Keith, J. M. (File, Chisel, etc.)
Tatem, J. M. (Pick & Sledge)
JUNIPER—Posey & Sons
LITCHFIELD—Bigelow Bros.
MADISON—Wheedon, Webster D.
PEQUABUCK—Allen, Chas. I. (File, Chisel, Screw-Driver, etc.)
PINE MEADOW—Chapin-Stephens Co. (Plane, Saw, Chisel & File)
PUTNAM—Tatem, J. B. & Son (Chisel, Lawn Mower, Leather Capped)
SALISBURY—Salisbury Cutlery Handle Co. (Cutlery)
SEYMOUR—Swan Jas. Co. (Auger, Bit, Chisel)
SOUTHINGTON—Peck, Stow & Wilcox Co.
Southington Mfg. Co.
TORRINGTON—Union Hardware Co.
WALLINGFORD—Ives, W. A. Mfg. Co. (Auger)

## GEORGIA.

ATLANTA—Atlanta Woodenware Co. (Axe, Broom, etc.)
BEECH HILL—Ivey, H. J. (Pick & Sledge)
ROME—Towers & Sullivan Mfg. Co. (Plane)
SAVANNAH—Deutch, Arthur (Axe)

## ILLINOIS.

CAIRO—Clark-Danforth Handle Co.
CHICAGO—Cassady-Fairbank Mfg. o. (For Small Tools, etc.), 6106 La Salle
CHICAGO HEIGHTS—Hartwell, C. L. & Co. (Fork, Hoe, Rake, Shovel, etc.)
SHELBYVILLE—Shelbyville Handle & Milling Co.

## INDIANA.

ALBANY—Griffith, Geo. V. & Son
AUBURN—Vaughn, R. W. & Co.
BLUFFTON—Buck, J. M. & Co.
COLUMBUS—Columbus Handle & Tool Co.
CORUNNA—Reynolds Bros.
EVANSVILLE—Evansville Hoop & Stave Co.
Globe Handle Co.
FORT WAYNE—National Handle Co.
FRANKFORT—Frankfort Handle Mfg. Co.
National Handle Co.
GREENCASTLE—Bittle, R.
INDIANAPOLIS—Atkins, E. C. & Co. (Cross Cut Saw)
Udell Works (Brush, Duster, etc.)
KOKOMO—Buck, Clyde D. & Co. (Ash)
LADOGA—Ladoga Handle Co.
LEBANON—Wilcox Bros. Mfg. Co.
LOGANSPORT — Hillock & Pitman (All Home, S. E. Kinds)
MARION—Marion Handle & Mfg. Co.
MARTINSVILLE—Martinsville Handle Co.
MONTPELIER—Jackson Shovel & Tool Co. (Shovel, Spade, etc.)
MUNCIE—Griffith, G. V. & Son
Meeks, J. Arthur
NEWCASTLE—Jennings, S. P.
Newcastle D Handle Co.
NEW HAVEN—Schnitker, A. R. & Son
Sperry Mfg. Co.
RICHMOND—Richmond Handle Co. (Fork, Shovel, Spade, etc.)
TERRE HAUTE—Terre Haute Handle Co.
UNION CITY—Clark, A. L. (Shovel, etc.)
VEEDERSBURG—Veedersburg Handle Co
VINCENNES—Indiana Handle Co.
WALTON—Bishop, G. W. Jr.
WINCHESTER—Boltz, B. F. Mfg. Co.

## IOWA.

FORT MADISON—Iowa Farming Tool Co. (Fork, Shovel, Spade, etc.)
MILTON—Milton Mfg. Co. (Axe)
OTTUMWA—Lindsey Mfg. Co.
WEST POINT—Cantril Handle Mfg. Co. (Pick & Sledge)

## KANSAS.

ATCHISON—Jackson Woodenware Co.

## KENTUCKY.

GLASGOW—Carpenter & Bayliss
HICKMAN—Tyler, R. T.
LOUISVILLE — Turner, Day & Woolworth Handle Co. (Axe, Pick, Sledge, Hammer, Hatchet & Mining Tool)
WINCHESTER—Scobel-Williams Spoke Co.

## MAINE.

AUGUSTA—Harvey, H. H. Handle Co. (Hammer Pick, Sledge, etc.)
DIXFIELD—Stowell, N. S. Spool & Wood Turning Co. (Small Tools, etc.)
EAST HIRAM—Flint & Burnell (Axe)
Lombard, H. C. (Axe)
FREEDOM—Freedom Lumber Co.
FRYEBURG—Cook, A. W. (Chisel, etc.)
GARDINER—Oakland Mfg. Co. (Broom)
HIRAM—Cotton, Lemuel & Son (Axe, etc.)
JAY—Jay Wood Turning Co.
LEWISTON—Lewiston Handle Co. (Shovel, Spade, etc.)
NORWAY—Novelty Turning Co. (Knife, File, Small Tool, Lather & Stencil Brush, etc.)
ROXBURY—Swain & Reed
STRATTON—Stratton Mfg. Co. (Turned Wood)
WEST PARIS—Mann, Lewis & Son

## MARYLAND.

BALTIMORE—Dittmar, John & Sons, Falls av & Pratt
Niagara Handle & Ferrule Co. ("Never-split")

## MASSACHUSETTS.

ASHFIELD—Thayer & Harmon (Bit Brace Heads & Handles, Wrench)
BOSTON—Ames Shovel & Tool Co., Ames bldg
Harvey, H. H. (Hammer, Pick, Sledge, etc.)
**STILES, H. A. & CO. (Broom,** Tool, Valve, Plain, Enameled, Polished, etc.), 161 High. (See adv. index, end
BRIER—Marquard, Amos E. of book)
CAMBRIDGE—Standard Turning Works
FITCHBURG—Cushing, S. G. & Son, 29 New-
Mossman, Jerome ton pl
Simonds File Co. (File)
Smith, F. J. & Co.
GREENFIELD—Rugg Mfg. Co. (Rake)
LEOMINSTER—Bartlett, H. E. & Co.
PLAINFIELD—Wilclutt, G. L.
SPRUCE CORNER—Thayer, Geo. A. (All Kinds of Tool Handles, Gauge Cocks & Radiator Valve Handles)
WEST CHESTERFIELD—Healy's, S. A. Sons (Plane & Saw)
WEST MILLBURY—Glover, H. W.

## MICHIGAN.

ADRIAN—Cherry, J. M. & Co.
ALBA—Jones Mfg. Co. (Broom, etc.)
Nicholls, A. W.
BAGNALL—Bagnall Handle Co. (Broom)
BANNISTER—Bennett, Frank
BIRMINGHAM—Nichols, Walter (Broom, etc.)
BELLAIRE—Richardi & Becktold
BRUTUS—Hinkley, D. H.
CADILLAC—Cadillac Handle Co. (Broom, Torch, etc.)
COLDWATER—Hellenberg & Son (Mallet, Rammer, etc.)
DETROIT—Detroit Handle Co.
Eby Mfg. Co. (Lubricators, Gas Cocks, Valves, etc.)
Prince Handle Mfg. Co. (Hand Shaved & Machine Made Tools, etc.)
ELMIRA—Honeywell, C. C.
ESCANABA—Escanaba Mfg. Co. (Broom Mop)
EVART—Champion Tool & Handle Co.
Davy & Co.
Evart Tool Co. (Tool, etc.)
FREEPORT—Cheesebrough, Job (Rake)
GALIEN—Montross, R. W. (Hay, Fork, Broom, Hoe, Rake, Shovel, Spade, Scoop, etc.)
GRAND RAPIDS—American Handle Co.
LEGRAND—Robinson, F. H. Co.
LUDINGTON—Handy Things Co. (Brush, Duster, Small Tool, etc.)
LYONS—Lyons Handle Co.
MESICK—Tripp, L. J. (Broom)
NADEAU—Nadeau Bros.
NEWAYGO—Rowe, Henry Mfg. Co. (Turned)
ONAWAY — Lobdell & Churchill Mfg. Co. (Broom Handles)
OWOSSO—Wood, M. & Co.
PONTIAC—Pontiac Turning Co. (Hickory)
TOWER—Stratton, De Forest A. (Broom Handles & Turned Wood)
VANDERBILT—Olds & Hixon (Broom)
YPSILANTI—Dickerson, C. W. (Pick & Sledge)

## MINNESOTA.

BEMIDJI—Bemidji Handle Co.
MINNEAPOLIS—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.), Security Bank bldg.

## MISSISSIPPI.

MATHISTON—Buckingham, W. J. & Son
OKOLONA—Alert Handle Co.
WEST POINT—West Point Handle Works

## MISSOURI.

CAMPBELL—Campbell Handle Co.
CARUTHERSVILLE — Peattie Handle Co. (Hickory, Fork, etc.)
DES ARC—Graves, E. W. (Hickory, Axe, Pick, Sledge, Hatchet, Hammer, etc.)
DEXTER—Hanna & Young
I. X. L. Handle Mfg. Co. (Pick & Sledge)
KANSAS CITY—Central Mfg. Co. (Hickory)
LILBOURN—Hartwell Bros.
MALDEN—U. S. Cooperage & Handle Co.
MEMPHIS—North Missouri Handle Co.
Rees Bros. Mfg. Co.
POINT PLEASANT—Davis, W. E.
POPLAR BLUFF—Hanna & Young Handle Co.
Hartzell Handle Co.
Western Handle Co.
PUXICO—Fulkerson Bros. Handle Co.
ST. LOUIS—Keller & Tamm Mfg. Co. (Axe, etc., Victor & Levee
WYACONDA — Morgan Mfg. Co. (Axe, Pick, Sledge, Maul, Hammer, Hatchet, etc.)

## NEW HAMPSHIRE.

KEENE—Ellis, Austin A. (Brush)
Pierce, F. B. Corp. (Brush)
MANCHESTER—Piper, B. H. Co. (Axe, etc.)
MILFORD—Peirce, W. E. & Co.
NEW DURHAM — Osborne Mfg. Co. (Brush Enameled & Plain, etc.)
NORTH WEARE—Flanders Hardware Co.
WOLFEBORO FALLS—Berry, O. P. Co.

## NEW JERSEY.

HOBOKEN—Bantz Bros. (Brush, etc.)
NEWARK—Sommer, John Faucet Co.
PATERSON—Hopper, Wm. E. (Special, to
SINGAC—Sanderson, Robt. (Brush) Order)

## NEW YORK.

AMSTERDAM—American Broom & Brush Co. (Broom)
Amsterdam Broom Co. (Broom & Mop)
BLEEKER—Ellis & Smith (Broom)
Peter's, John M. Sons
BRASHER FALLS—Hulberg, S. W. (Broom)
BUFFALO—Jackson & Tindle (Broom)
Osgood, J. L. ("Osgood" Indestructible File & Tool), Erie County Bank bldg
White, L. & I. J. Co. (Small Tool, Axe, Hatchet, etc.)
EAST SWANZEY—East Swanzey Woodenware Co.


**TURNED WOOD WORK** HANDLES, WHEELS, CUPS, BOTTLES, CASES, ETC.

We operate and are selling agents for several mills making ALL KINDS OF TURNED WOOD WORK. Our mills are equipped with the latest machinery, and located in the most advantageous places. We can furnish any finish desired. Send us your sample handles, B. P., or any article made of wood, and we will quote you. Special work given prompt attention.

**H. A. STILES & CO.,** 161 HIGH STREET, Wood Working Department. **BOSTON, MASS.**


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NEW YORK—American Fork & Hoe Co. (Fork, Rake, Hoe, Shovel, Spade, etc.), 11 B'way
American Woodworking Co., 19 Warren
**Delapierre, Arthur (Inc.), 19 Warren**
Estes, E. B. & Sons (All Kinds of Small), 74 Warren
N. Y. Mallet & Handle Works, 743 E 11th
Standard Handle Co., 133 Roosevelt
WEST LEYDEN—Seiter, John & Son

## NORTH CAROLINA.

BARNARD—French Broad Mfg. Co. Pick)
CONOVER—Hunsucker, J. (Pick)

## OHIO.

ADA—Kephart, Geo. H. & Son
AKRON—Baker-McMillan Co. (Screw Driver, File, Duster, Small Tool)
Kile Mfg. Co. (Hickory Hammer, Hatchet & Toy)
ALLIANCE—Buckeye Handle, Gear & Bend-
ATTICA—Winchester, D. Handle Co. ing Co.
BROADWAY—Goff, W. H.
BRYAN—Mils, I. C.
BUCYRUS—Hoyt, Lee N.
BUTLER—Richland Handle Co.
CALDWELL—Burkhart, J. & Son
CANFIELD—Canfield Mfg. & Novelty Co.
CLEVELAND—American Fork & Hoe Co. (Fork, Rake, Hoe, Shovel, Spade, etc.)
National Handle Co. (Broom, Fork, Hoe, Rake, Spade, etc.)
COLUMBIANA—Columbiana Mfg. Co.
COLUMBUS—Ohio Tool Co. (Chisel, File, Plane, Auger, etc.)
Union Fork & Hoe Co. (Hoe, Rake, etc.),
COLUMBUS GROVE—Jones, J. F. Sons (Sledge)
DAYTON—Dayton D Handle Co. ("D")
DELPHOS—Schaffer, J. C.
EATON—Hiestand & Co.
EDON—Betts, W. C.
Sheline, E. R. & Son
FINDLAY—National Handle Co.
GALION—Galion Handle & Mfg. Co.
GENEVA—Smith, J. B. (Tool)
HICKSVILLE—Crook, Son & Co.
Fish & W. A. Miller
Hicksville Handle Co.
Miller Mfg. Co.
IRONTON—Ironton Tool Handle Mfg. Co.
KENTON—Young, J. W. (Hickory Tool)
LEIPSIC—Leipsic Mfg. Co. (Mop)
LIMA—Selfridge, O. B. Co.
LOUDONVILLE—Loudonville Handle Co.
MONROEVILLE—Yingling Bros. & Co.
NEW BREMEN—Buckeye Handle & Lumber
Clark, Benj. & Co. Co.
NORWALK—McCrillis Handle Co. (Pick)
PIONEER—Carr, Lewis
PIQUA—Piqua Handle & Mfg. Co. (Garden Rake, Fork, Hoe, Chisel, File, Auger, Screw Driver, etc.)
ROCK CREEK—Burleigh, R. & Sons
SANDUSKY—Sandusky Tool Co. (Saw, Plane, File, Chisel, Awl, Auger, Cross-Cut Saw,
SHENANDOAH—McClain, A. etc.)
SIDNEY—Benjamin, C. R. & Son
SPENCERVILLE—Reynolds, W. A. Lumber Co.
WAPAKONETA—Standard Churn Co. (Hay, Rake, Hoe & Broom)
WASHINGTON C. H.—Washington Handle
Washington Mfg. Co. Co.
WAUSEON—Wauseon Handle & Lumber Co. (Shovel, Spade, Fork, Hoe, Rake, Mop, Broom, etc.)
XENIA—Xenia Handle Co. (Shovel, etc.)

## PENNSYLVANIA.

BEDFORD—McLaughlin, J. L. & Son (Axe)
BETHLEHEM—Strock, L. W. & Co.
CORRY—Corry Handle & Novelty Co. (Axe, Sledge, Pick, Hammer, Hatchet, File, Wrench, Chisel, etc.)
Mahle, C. A. & Son (Ltd.) (For Small
CROYDON—Keystone Handle Co. Tools)
ELDRED—Prouty, C. & Co. (Cross-Cut, Cant Hook, etc.)
ERIE—Erie City Mfg. Co. ("Arrow," Cross-Cut Saw, Mop)
GIRARD—Ely, Theo. J. Mfg. Co. (Cross Cut Saw, etc.)
HANOVER—Hanover Plow Handle Co.
HOWARD—Howard Handle & Spoke Co.
KANE—Holgate Bros. Co.
KINZUA—Sheldon Handle Co.
LAKE COMO—Williams, H. A.
LEECHBURG—PITTSBURG SHOVEL Co. (See Pittsburg)
MANOR—Beamer Handle Co. (Axe, Pick, Sledge, Hammer, etc.)
Manor Handle Works
MOUNTAIN EAGLE—Leathers, Earl H.
NORRISTOWN—Brusher, J. B. (Axe, Pick, Sledge, Hammer & Hatchet)
PASSER—Hottel, Benjamin
PICTURE ROCKS—Handle & Excelsior Co.
PITTSBURG—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.), Arrott bldg
PITTSBURG SHOVEL CO. (Ash & Hickory; Pick Axe, Hammer, Cant Hook, etc.), Oliver bldg. (See adv. index, end of book)
QUAKERTOWN—Landis, S. H. & Bro.
SOUTH STERLING—Karreaster, G. H.
TITUSVILLE—Titusville Handle Co.
TOWNVILLE—Marsh & Allen (Broom)
UNION CITY—Caflisch, Fred. (Pick & Sledge)
Clark, Haniel & Son (Shovel)
Novelty Wood Works Co. (Small Tool)
Westcott, J. D. & Son
WARREN—Peterson, Sam'l (Axe, Pick, Hammer, Sledge, Mining, etc.)

## RHODE ISLAND.

PROVIDENCE—Narragansett Machine Co.

## SOUTH DAKOTA.

SIOUX FALLS—Sioux Falls Plow Co.

## TENNESSEE.

BAXTER—Isbell, J. A.
COOKEVILLE—Gregory, T. J., Handle Co.
DICKSON—Leathers, A. H., Handle Co.
ERIN—Gang, Conrad D. (Axe, etc.)
Goodwin, L. P. (Axe, etc.)
McCauley, C. E. & Co. (Axe, etc.)
HARRIMAN—Harriman Mfg. Co.
HUMBOLDT—Craddock Bros.
JOHNSON CITY—Harris Mfg. Co. (Plow)
Unaka Lumber Co. (Axe, Hammer, Hickory)
KNOXVILLE—Standard Handle Co. (Ltd.) (Hickory)
LAWRENCEBURG—Wylie, A. P. Mfg. Co.
MEMPHIS—Brown, Hinman & Huntingdon Co.
Consolidated Handle Co.
Hardwood Specialty Co. (Hickory)
Hartzell Handle Co.
NASHVILLE—Nashville Spoke & Handle Co. (Axe, Chisel, Pick, Sledge, Farming Tool, etc.)
SEQUATCHIE—Sequatchie Handle Works
TULLAHOMA—Campbell, M. R.
Campbell & Dann Mfg. Co. (Inc.) (File & Chisel Handles in the White)

## TEXAS.

TIMPSON—Timpson Handle Co.

## VERMONT.

BELLOWS FALLS — Derby & Ball (Fork, Scythe Snaths, etc.)
BRISTOL—Bristol Novelty Co.
EAST BARNET—Roy Bros.
BURLINGTON—Vermont Shade Roller Co. (Mop)

## VIRGINIA.

BLACKSTONE—Blackstone Handshaved Handle
COLUMBIA—Willard, T. R. Co. (Hickory)
FARMVILLE—Farmville Mfg. Co. (Plow)
FRONT ROYAL—Stoessel, Carl & Co.
FRONT ROYAL—Stoessel, Carl, & Co.
GALAX—Galax Handle Works (Ltd.) (Hickory Axe, Pick & Sledge, etc.)
MANCHESTER—Brinser, E. C. & Sons
MARION—Look & Lincoln (Plow)
MIDDLETOWN SPRINGS—Gray, F. E.
ROUND HILL—Blue Ridge Handle Co.
TOWNSHEND—Willard, C. H.

## WEST VIRGINIA.

AVOCA—Ritter, C. L. Lumber Co.
BERKELEY SPRINGS—Crossfield, W.
CHARLESTON—Kelly - Duffield Handle Co. (Axe)

## WISCONSIN.

CAMERON—Oak Grove Handle Co.
MILWAUKEE—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.), Loan & Trust bldg
OSHKOSH—Oshkosh Mfg. Co. (Hard Maple, Axe, Sledge, Saw, etc.)
PRINCETON—Princeton Rubber Tub Mfg. Co.
TWO RIVERS—Two Rivers Woodenware Co. (Pail, etc.)
WAUSAU—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.)

# 4486—Handles Wood, Fork, Shovel & Spade)

(See also Handles, Wood)

Alexander & Perkins (Fork), Sunapee, N. H.
American Fork & Hoe Co., American Trust bdg, Cleveland, Ohio
Ames Shovel & Tool Co., Ames bldg, Boston, Mass.
Derby & Ball (Fork), Bellows Falls, Vt.
Hartwell, C. L. & Co., Chicago Heights, Ill.
Iowa Farming Tool Co., Ft. Madison, Iowa.
Jackson Shovel & Tool Co., Montpelier, Ind.
Lewiston Handle Co. (Shovel & Spade), Lewiston, Me.
Marion Handle & Mfg. Co., Marion, Ind.
Montross, R. W., Galien, Mich.
National Handle Co., Cleveland, Ohio.
Peattie Handle Co. (Fork), Caruthersville, Mo.
Piqua Handle & Mfg. Co., Piqua, Ohio.
Richmond Handle Co. (Shovel & Spade), Richmond, Ind.
Standard Churn Co. (Fork), Wapakoneta, Ohio.
Wauseon Handle & Mfg. Co. (Fork, Shovel, Spade, etc.), Wauseon, Ohio

# 4487—Handles (Wood, Pick & Sledge)

(See also Handles, Wood)

Acme Handle Co., Merchants-Laclede bldg, St. Louis, Mo.
Beamer Handle Co., Manor, Pa.
Berry, O. P. Co., Wolfboro Falls, N. H.
Brusher, J. B., Norristown, Pa.
Buckeye Handle, Gear & Bending Co., Ance, O.
Caflisch, Fred., Union City, Pa.
Cantril Handle Mfg. Co., West Point, Iowa
Clark, E. D. & Bro., Milford, Conn.
Corry Handle & Novelty Co., Corry, Pa.
Dickinson, C. W., Ypsilanti, Mich.
Frankfort Handle Mfg. Co., Frankfort, Ind.
French Broad Mfg. Co. (Pick), Barnard, N. C.
Fulkerson Bros. Handle Co. (Sledge), Puxico, Mo.
Galax Handle Works, Galax, Va.
Graves, E. W. (Hickory, also Axe, Hammer, etc.), Des Arc, Mo.
Hartigan, Wm. R., Collinsville, Conn.
Hartwell Bros., Chicago Heights, Ill.
Hartwell Mfg. Co., Huntingburg, Ind.
Harvey, H. H. Handle Co., Augusta, Me.
Hunsucker, J. (Pick), Conover, N. C.
Ivey, H. J., Beech Hill, Ga.
I. X. L. Handle Co., Dexter, Mo.
Jones, J. F. Sons (Sledge), Columbus Grove, O.
Kelsey, Horatio (Pick), Clinton, Conn.
Lakeman, E. P. ((Sledge), Ashridge, Ala.
Lewiston Handle Co. (Sledge), Lewiston, Me.
McCrillis Handle Co., Norwalk, Ohio.
Nashville Spoke & Handle Co., Nashville, Tenn.
Payne, J. N. & Son (Sledge), Morganton, N. C.
Peterson, Samuel (Ash, Hickory & Thornwood), Warren, Pa.
PITTSBURG SHOVEL CO. (Ash & Hickory), Oliver bldg, Pittsburg, Pa.
Works, Leechburg, Pa. (See adv. index, end of book)
Prouty, C. & Co. (Sledge), Eldred, Pa.
Rogers-Meiser Handle Co., Paragould, Ark.
Sandusky Axe Handle Co., Sandusky, Ohio.
Standard Handle Co., Knoxville, Tenn.
Tatem, John M., Eastport, Conn.
Turner, Day & Woolworth Handle Co., Louisville, Ky.
Union City Handle Co., Union City, Pa.
Warren Handle Works, Warren, O.

# Hangers (Arc Lamp)

(See Insulators, Arc Lamp)

# 4488—Hangers (Building Bracket)

Wagner Mfg. Co., Cedar Falls, Iowa

# 4489— Hangers (Cable)

**DIAMOND EXPANSION BOLT CO.** ("Ramsorn", "Marline"), 90 West, New York. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)

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## 4490– Hangers (Concrete)

Bergen Iron Works (Inc.), 135 51st, Brooklyn, N. Y.
Duplex Hanger Co. ("Duplex"), Cleveland, O.
**INSLEY MFG. CO. (Shaft Hanger** Insert), Indianapolis, Ind. (See adv. index & branch offices, end of book)
Mulvey, Chas. Mfg. Co. (Block Joist), 1539 W 35th, Chicago, Ill.
Perkins & Howland, Springfield, Mass.

## 4491–Hangers (Conductor Pipe)

(See also Hangers, Eave Trough)
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Iwan Bros. (Wire), South Bend, Ind.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Reeves Mfg. Co., Canal Dover, O.

## 4492– Hangers (Conduit)

Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.
United Marine Mfg. & Supply Co., 100 William, New York
Yonkers Specialty Co., Yonkers, N. Y.

## 4492a–Hangers ("Crescent")

**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)

## 4493– Hangers (Cycle)

Lane Bros. Co., Poughkeepsie, N. Y.
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.

## 4494–Hangers (Eave-Trough)

Albro, F. E. ("Chautauqua"), Mayville, N. Y.
**AMERICAN ROLLING MILL CO.,** Middletown, O. (See adv. index & branch offices, end of book)
Andrews Wire & Iron Works, Rockford, Ill.
Baker, J. R. & Sons Co., Kendallville, Ind.
Berger Bros. Co., 237 Arch, Phila., Pa.
Berger, L. D., 59 N 2d, Phila., Pa.
**BERGER MFG. CO., THE (Steel &** Wire), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)
**BURTON, W. J. CO., 161 W Con**gress, Detroit, Mich. (See adv. index, end of book)
Cambridge Roofing Co., Cambridge, O.
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO., Canton, O. (See** (See adv. index, end of book)
Clark, Quien & Morse, Peoria, Ill.
Clark-Smith Hardware Co., Peoria, Ill.
**EDWARDS MFG. CO., 545-565 Eg**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Eller Mfg. Co., Canton, O.
Eureka Fence Mfg. Co. ("Richmond" Adjustable), Richmond, Ind.
Excelsior Steel Furnace Co., 517 W Monroe, Chicago, Ill.
Fournier, George, South Deerfield, Mass.
**FRIEDLEY-VOSHARDT CO. (Inc.)** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
Gray, R. H. ("Champion"), Columbia, Mo.
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Horan Stay Hanger Co., Louisville, Ky.
Indianapolis Steel Roofing & Corrugating Co., Indianapolis, Ind.
Joliet Mfg. Co., Joliet, Ill.
Messenger & Parks Co., Aurora, Ill.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co. ("Dover"), Canal Dover, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Tiffin Art Metal Co., Tiffin, O.
Wheeling Corrugating Co., (Eave Trough & Conductor Pipe Fittings), Wheeling, W. Va.
Wusterbarth Bros., Meriden, Conn.

## 4495–Hangers (Electric Cable)

American Twist Drill Co. ("Union"), Laconia, N. H.
**ANDERSON FORGE & MACHINE CO.** (Manhole Cable), Fairview, Detroit, Mich.
Appleton Electric Co. ("Appleton"), 212 N Jefferson, Chicago, Ill.
Bissell, F. Co., Toledo, O.
Cameron Appliance Co. ("Locke"), Everett, Mass.
Chase-Shawmut Co. ("Boston," "Marlin"), Newburyport, Mass.
Chicago Nut Co., 172 S Clinton, Chicago, Ill.
Condit Electrical Mfg. Co. ("Marlin"), Boston, Mass.
Cook, Frank B., 240 W Lake, Chicago, Ill.
Copeland, H. P. ("H-P"), 127 Franklin, New York
**DIAMOND EXPANSION BOLT CO.** ("Long Saut"), 90 West, New York. (See adv. index, end of book)
Electric Service Supplies Co., 1020 Filbert, Phila., Pa.
Fletcher Mfg. Co. (Iron Insulated, etc.), Dayton, O.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Hallett Iron Works, 519 W Polk, Chicago, Ill.
Harvard Elec. Co., 525 W Van Buren, Chicago, Ill.
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Minerallac Co., Monadnock bldg., Chicago, Ill.
Monroe Electrical Mfg. Co. ("Swisher & Pierce"), Monroe, Mich.
Morgan Spring Co., Worcester, Mass.
**MORSE, FRANK W. ("Morse Eure**ka," for Interior & Exterior Use), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
National Telephone Supply Co. ("Universal"), Cleveland, O.
New Haven Novelty Machine Co., New Haven, Conn.
Norton Tool Co. ("Little Giant"), West Park, Ohio
Oliver Iron & Steel Co., Pittsburg, Pa.
Pettingell-Andrews Co. ("O'Neill"), Boston, Mass.
Rhode Island Telephone & Electric Co. ("Wright"), Providence, R. I.
Standard Underground Cable Co., Pittsburg, Pa.
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)
Vote-Berger Co., La Crosse, Wis.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Yonkers Specialty Co., Yonkers, N. Y.

## 4496– Hangers (Garment)

American Mfg. Concern, Jamestown, N. Y.
Andrews Wire & Iron Works ("Androck"), Rockford, Ill.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
Beatty Stamping Co. ("The Tourist," Sectional), Cleveland, O.
Brager, B. (Combination), 49 Crosby, New York
Brooks, M. S. Sons (Folding Coat), Chester, Conn.
Caldwell Mfg. Co., Rochester, N. Y.
Cassady-Fairbank Mfg. Co. (Skirt, Trousers, Coat, etc.), 6106 La Salle, Chicago, Ill.
Chicago Form Co., 115 Franklin, Chicago, Ill.
Columbia Mfg. Co., Easthampton, Mass.
Dawson, J. R. Mfg. Co., 3646 N Lawrence, Phila., Pa.
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Eureka Steel Novelty Co., Buffalo, N. Y.
Forsyth Mfg. Co. ("Eureka" Coat & Garment), Buffalo, N. Y.
Gibbs Mfg. Co., Canton, O.
Gill, E. B. Mfg. Co. (Coat), 21 Quincy, Chicago, Ill.
Hall & Carpenter, 518 Race, Philadelphia, Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass
Heimann-Miller Mfg. Co. ("Missing Link"), 1404 Washington av, St. Louis, Mo.
Hincher Mfg. Co., Salem, Mass.
Hutchins Mfg. Co., Buffalo, N. Y.
Jenckes, E. Mfg. Co. (Coat, Trousers, Folding, etc.), Worcester, Mass.
Jenkinson, R. C. & Co. (Wire Coat, etc.), Koenig Mfg. Co., Hazleton, Pa. Newark, N. J.
Koenig Mfg. Co., Hazleton, Pa.
Lewald, F. & Co. ("Itsoezie"), 135 Adams, Chicago, Ill.
Melchior Bros. Furniture Co., 6 Dayton, Chicago, Ill.
National Mfg. Co. (Wire), Worcester, Mass.
Norwich Nickel & Brass Co., Norwich, Conn.
Pullman Mfg. Co. (Rods & Loops), Rochester, N. Y.
Rocky Hill Hardware Co., Rocky Hill, Conn.
Seed Filter & Mfg. Co. ("Victor"), 93 Reade, New York
Taplin Mfg. Co. ("Victor" Folding), New Britain, Conn.
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
West Lafayette Mfg. Co. (Coat), West Lafayette, Ind.
Wire Goods Co., Worcester, Mass. ette, O.
Wire Hardware Co., 1824 Besly Court, Chicago, Ill.

## 4496a– Hangers (Gate)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 4497–Hangers (Hinge & Rail)

Grabler Mfg. Co. (Forged, etc.), Cleveland, O.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Safety Door Hanger Co., Ashland, Ohio

## 4498– Hangers (Joist)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Bergen Iron Works (Inc.), 135 51st, Brooklyn, N. Y.
Boonton Iron & Steel Co., Boonton, N. J.
Boston Bolt & Iron Co., Boston, Mass.
Central Iron Works, Des Moines, Ia.
Chicago Builders' Specialties Co., 84 Van Buren, Chicago, Ill.
Clark, W. J. Co. ("Lane"), Salem, O.
Columbian Hardware Co. ("Cleveland" Steel), Cleveland, O.
Duplex Hanger Co., Cleveland, O.
Ernst's, C. F. Sons (Steel), Buffalo, N. Y.
Folsom, C. G. Mfg. Co., South Bend, Ind.
General Agency & Securities Co. ("Dousman"), Kansas City, Mo.
Goetz Box Anchor Co., New Albany, Ind.
Grabler Mfg. Co. (Forged), Cleveland, O.
Heughes, F. L. & Co., Rochester, N. Y.
Ideal Hanger Co. ("Ideal" Steel), Cleveland, O.
Lane Bros. Co., Poughkeepsie, N. Y.
Love Bros. (Inc.), Aurora, Ill.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
Mulvey, Chas. Mfg. Co., 1539 W 35th, Chicago, Ill.
National Iron & Wire Co. (Steel), Cleveland, O.
Oliver Iron & Steel Co., Pittsburg, Pa.
**REMPPIS, WM. F. CO., Reading, Pa.,** & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
**RIESECK, P. (Wrought Steel), Al**legheny av & Rebecca, N S, Pittsburg, Pa. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eg**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
**TRUSSED CONCRETE STEEL CO.** (Kahn System). (See adv. index & branch offices, end of book)
Van Dorn Iron Works Co. (Steel), 2685 E 79th, Cleveland, O.
Variety Mfg. Co. ("Mulvey"), Sacramento & Carroll av. Chicago, Ill.

## 4498a– Hangers (Marline)

**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)

WHEN YOU BUILD USE THE
RIESECK Patent Wrought Steel **Joist Hanger**
**P. RIESECK,**
Allegheny Ave. and Rebecca St., North Side,
PITTSBURG, PA.
CHEAPEST AND BEST.

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## 4499—Hangers (Messenger)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Norton Tool Co. (Combination), West Park, O.

## 4500— Hangers (Mine)

Ohio Brass Co., Mansfield, O.
Trolley Wire Support Co. ("Vise-Grip," for Trolley Wires), Syracuse, N. Y.

## 4501— Hangers (Pipe)

Acme Mfg. Co.( "Acme," Brass), Bangor, Me.
Advance Radiator Co. (Steel), Syracuse, N. Y.
American Hardware & Mfg. Co., Ottawa, Ill.
Avery Stamping Co. ("Neverbreak"), Cleveland, O.
Badger Brass Mfg. Co., Kenosha, Wis.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barrett, Jas. Mfg. Co. (Brass), Boston, Mass.
Beaton & Cadwell Co. ("A. J. Beaton's"), New Britain, Conn.
Beaton & Corbin Mfg. Co., Southington, Conn.
Belfield, H. & Co. (Multiple & Expansion), 435 N Broad, Phila., Pa.
Berger Bros. Co., 237 Arch, Phila., Pa.
Billings, D. L. Co. ("Perfect"), Boston, Mass.
Blaiser, M. E. & Co., Utica, N. Y.
Blake & Williams, 24 Barrow, New York
Boston Bolt & Iron Co., Boston, Mass.
Buckley-Hart Mfg. Co. (Brass), Detroit, Mich.
Canton Brass & Machine Co., Canton, O.
Cann & Saul, 516 Commerce, Philadelphia, Pa.
Climax Specialty Co., Ann Arbor, Mich.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Cryer, T. B. & Co., Newark, N. J.
Devlin, Thos. & Co. ("Kane," "National"), 3d & Lehigh av, Phila., Pa.
Donovan, D. A. ("Dad"), Auburn, N. Y.
Eureka Heating & Ventilating Co. (C. W. Light, Prop.) ("Eureka"), Saginaw, Mich.
Evory Mfg. Co. ("Mack"), 102 John, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fee & Mason (Iron & Brass), 81 Beekman, New York
Flagg, Stanley G. & Co. (Malleable Iron), 19th & Pa. av, Phila., Pa.
General Fire Extinguisher Co., Providence, R. I.
Glenn Mfg. Co. ("Expansion Ring"), St. Charles, Ill.
Grabler Mfg. Co. ("Grabler" Universal Extension, Split Ring, U, etc.), Cleveland, O.
Hart-Ayres Plumbing Co. ("Ideal"), 4th av & Degraw, B'klyn, N. Y.
Haydenville Mfg. Co., Haydenville, Mass.
Hayes Pump & Planter Co. ("Dack"), Galva, Ill.
Hodgdon Brass Works (Brass), Boston, Mass.
Hoffman-Billings Mfg. Co., Milwaukee, Wis.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hughson Steam Specialty Co. ("Eclipse"), 860 S. Halstead, Chicago, Ill.
Illinois Malleable Iron Co. ("Chicago"), 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co. ("Erie"), Erie, Pa.
Kelly & Jones Co. ("Jones" Expansion, etc.), Pittsburg, Pa.
Kenway, Percy N. ("Rex"), 420 Boylston, Boston, Mass.
Kriebel & Co., 826 Spring Garden, Phila., Pa.
Kupferle, Jno. C. (Expansion), St. Louis, Mo.
Lane, Ira G. ("Away from the Wall"), 207 E 64th, New York
Libbey, Parker & Co. ("Victor"), Boston, Mass.
McCullom, George (Malleable), Muskegon, Mich.
Modern Iron Works (Expansion or Ring Hooks) Quincy, Ill.
Moore, Joshua, Marseilles, Ill.
Mulford Heater Co., Galva, Ill.
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
National Mfg. Co., 830 Champlain av, Cleve-
National Supply Co., Toledo, O. land, O.
National Tube Co. ("Western" Expansion), Pittsburg, Pa.
Newbury, Jay H., Goshen, N. Y.
Newbury Mfg. Co. (Adjustable Expansion, etc.), Monroe, N. Y.
Park & McKay Co., 55 Bagley, Detroit, Mich.
Peck Bros. & Co., New Haven, Conn.
Penna. Engineering Co. ("Hanna" Ball Joint, Malleable Iron), 1119 N. Howard, Phila, Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & Construction Co.,** 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Powhatan Brass & Iron Works, Charleston, W. Va.
Reed Mfg. Co. ("Clark's" Adjustable), Erie, Pa.
Rutzler, E. Co. ("Universal"), 404 E 49th, New York
**SIMMONS, JOHN CO. ("American," "Netherland"),** 110 Centre, New York. (See adv. index, end of book)
Smith, E. L. & Co. ("Haskell"), Boston, Mass.
Sproul & McGurrin ("I. X. L."), Grand Rapids, Mich.
**STAR EXPANSION BOLT CO. ("Star"** Expansion Bolt), 147 Cedar, New York. (See adv. index & branch offices, end of book)
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
United Metal Mfg. Co., 186 Wooster, New York
Victor Supply Co. ("Abbott"), Springfield, O.
Walworth Mfg. Co., Boston, Mass.
Webb, F. W. Mfg. Co., Boston, Mass.
West Penn Plating & Mfg. Co., N S, Pittsburg, Pa.
Wolverine Brass Works, Grand Rapids, Mich.
Young, Jos. H. Co. ("Boston" Brass), 80 High, Boston, Mass.
Zimmer, Philip H. & Bro. (Hat Process Steel), 94 Lexington av, Brooklyn, N. Y.

## 4501a—Hangers ("Ramsorn")

**DIAMOND EXPANSION BOLT CO., 90** West, New York. (See adv. index & branch offices, end of book)

## 4502—Hangers (Ring Oiling)

Bond Foundry & Machine Co. ("Keystone"), Manheim, Pa.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Wis.
Eastwood, Benj. Co., Paterson, N. J.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Salem Foundry & Machine Works, Salem, Va.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Wood's, T. B. Sons Co. ("B & S."), Chambersburg, Pa.

## 4503— Hangers (Roller)

Grabler Mfg. Co. (For Wrought Iron Pipe, etc.), Cleveland, O.

## 4504—Hangers (Roller & Ball Bearing)

Auburn Ball Bearing Co. (Ball), Auburn, N. Y.
Hyatt Roller Bearing Co., Harrison, N. J.
**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
Pressed Steel Mfg. Co. (Ball), Land Title bldg, Philadelphia, Pa.
Valley Iron Works, Wiliamsport, Pa.

## 4505—Hangers (Self-Oiling)

American Tool & Machine Co., Boston, Mass.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
Erie Clutch & Pulley Co., Erie, Pa.
Fay, J. A. & Egan Co., Cincinnati, O.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Great Western Mfg. Co., Leavenworth, Kan.
Jones & McLaughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., St. Louis, Mo.
Nordyke & Marmon Co., Indianapolis, Ind.
Platt Iron Works Co., Dayton, O.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Valley Iron Works, Williamsport, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Woonsocket Machine & Press Co., Woonsocket, R. I.

## 4506— Hangers (Shade)

Thoreau Mfg. Co. ("Thoreau", Adjustable Window Shade), 810 Wash'n blvd, Chicago, Ill.

## 4506a—Hangers (Shaft Hanger Insert)

**INSLEY MFG. CO. (For Concrete** Factory Building), Indianapolis, Ind. (See adv. index & branch offices, end of book)

## Hangers (Shaft, Post, Bracket, Etc.)

(See Power Transmitting Machinery)

## 4507—Hangers (Shaft, Pressed Steel)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Standard Pressed Steel Co. ("American Pioneer"), 20th & Clearfield, Phila., Pa.

## 4508—Hangers (Sliding Blind)

Kidder, Daniel & Son, North Groton, N. H.

## 4509— Hangers (Step)

Keystone Drop Forge Works (For Car Steps, etc.), Chester, Pa.

## 4510—Hangers (Storm Sash & Screen)

Adjustable Hanger Co. ("Universal" Adjustable), Toledo, O.
Diehl Novelty Co. ("Diehl"), Sheboygan, Wis.
Kees, F. D. Mfg. Co. ("Gossett"), Beatrice, Neb.
National Mfg. Co. (Automatic), Sterling, Ill.
Perfect Screen Hanger Co., Memphis, Tenn.
Peters & Grant ("E. Z. Way" for Whole & Half Moon Screen & Storm Sash), Kansas City, Mo.
Phenix Mfg. Co. ("Phenix"), Milwaukee, Wis.
Prouty, T. C. Co. ("Hang-Easy"), Albion, Mich.
**STANLEY WORKS ("Schroeder's** Peerless" Hanger & Fastener), New Britain, Conn. (See adv. index & branch offices, end of book)
Watrous, E. L. Mfg. Co. ("Watrous" Screen Hanger), Des Moines, Iowa.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Winter, R. G. Mfg. Co. ("Sensible"), Milwaukee, Wis.

## 4511—Hangers (Trolley Wire)

Aurora Specialty Mfg. Co., Aurora, Ill.
Clark Electric & Mfg Co. ("Clark" Double Catenary), 137 B'way, New York
Creaghead Engineering Co. ("Creaghead" Armored Cap-Cone), Cincinnati, O.
Electric Railway Equipment Co. ("Universal"), Cincinnati, O.
Eureka Tempered Copper Wks., North East, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Indianapolis Brass Co., Indianapolis, Ind.
Morris Iron Co., 90 West, New York. Works: Frederic, Md.
Ohio Brass Co., Mansfield, O.
Phila. Electrical & Mfg. Co. ("Pemco" Galvanized Malleable Iron Catenary), 1232 N 31st, Phila., Pa.
Post-Glover Electric Co., Cincinnati, O.
Ridlon, Frank Co. ("Ridlon"), Boston, Mass.
Western Electric Co. ("Ideal"), 500 S Clinton, Chicago, Ill.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Single & Double Catenary Construction), Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 4511a—Hangers (Tubular Track)

**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 4512— Hard Oil Finish

Acme White Lead & Color Works, Detroit, Mich.
Anglo-American Varnish Co., Newark, N. J.
Allentown Mfg. Co., Allentown, Pa.
Berry Bros. (Limited), Detroit, Mich.

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Boydell Bros. White Lead & Color Co., Detroit, Mich.
Bridgeport Wood Finishing Co., New Milford, Conn.
Brooks, Clarence & Co., Newark, N. J.
**Buckeye Paint & Varnish Co., Toledo, O.**
Butcher Polish Co., 356 Atlantic av, Boston, Mass.
Chicago Varnish Co., 2090 Elston av, Chicago, Ill.
Chicago Wood Finishing Co., 1216 Elston av, Chicago, Ill.
Continental Varnish & Color Co., Kansas City, Mo.
**Devoe, F. W. & C. T. Raynolds Co., 101 Fulton, New York**
**Felton, Sibley & Co., 136 N. 4th, Phila., Pa.**
Flattona Wood Finishing Co., Perth Amboy,
Flood & Conklin Co., Newark, N. J. N. J.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Gillespie, Chas. H. & Sons, Jersey City, N. J.
Glidden Varnish Co., Cleveland, O.
Grippin Mfg. Co., Newark, N. J.
Harrison Bros. & Co. (Inc.), 35th c Gray's Ferry rd, Philadelphia, Pa.
Macneal, Jas. B. & Co., Baltimore, Md.
Mitchell-Mallon Co., 1648 B'way, New York
Mitchell & Wheeler, Newark, N. J.
Moller & Schumann, Marcy & Flushing avs, Brooklyn, N. Y.
Murphy Varnish Co., Newark, N. J.
O'Brien Varnish Co. (Light), South Bend, Ind.
Palmer-Price Co., Newark, N. J.
Smith, Edw. & Co., Long Island City, N. Y.
Standard Varnish Works (Gutta Percha), 29 B'way, New York
Wilhelm, A. Co., Reading, Pa.

## 4513— Hardies

Atha Tool Co. (Toes, etc.), Newark, N. J.
**Champion Tool Co. ("Champion"), Meadville, Pa.**
Evansville Tool Works (Straight & Circular Cut), Evansville, Ind.
Heller Bros. Co., Newark, N. J.

## 4514—Hardware (Builders' Rustless)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Hardware Co., North Chicago, Ill.
Columbian Hardware Co., Cleveland, O.
Corbin, P. & F., New Britain, Conn.
**Reading Hardware Co., Reading, Pa.**
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York. Works: Stamford, Conn.

## 4515—Hardware from Architects' Designs

Chicago Hardware Co., North Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Penn Hardware Co., Reading, Pa. book)
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 4516— Hardware Mfrs.

(See also Hardware, Wholesale; also Hinge Manufacturers; also Lock Manufacturers; also Door Hangers; also Door Knob Manufacturers; also Sash Balance Manufacturers; also Nail Manufacturers; also Sash Weights; also Chains, Sash; also Cutlery Manufacturers, etc.)

### CALIFORNIA.

LOS ANGELES—California Lock & Hardware Co.
RIVERSIDE—Miller, Albert W. Mfg. Co. (Specialties)
SAN FRANCISCO—Falls Mfg. Co. (Hardware & Specialties), 360 Fremont

### CONNECTICUT.

BRIDGEPORT—Acme Shear Co. (Shears & Tinners' Snips)
American Specialty Co. (Cast & Wrought Brass)
Bridgeport Brass Co.
Bridgeport Chain Co. (Sash Chains, etc.)
Bridgeport Hardware Mfg. Corp.
Burns, Silver & Co.
Cornwall & Patterson Mfg. Co. (Piano & Organ)
Dosch Mfg. Co. (Specialties)
Hotchkiss, Edw'd S. (Light)
Hurwood Mfg. Co. (Inc.) (Specialties)
Knapp, Geo. S. (Specialties)
Smith & Egge Mfg. Co. (Pulleys, Chains, Pilers, Punches, etc.)
White Mfg. Co. (Carriage)
BRISTOL—New Departure Mfg. Co. (Bells & Gongs, etc.)
Root, Chas. J. (Butts)
Sessions, J. H. & Son
FORESTVILLE—Andrews, C. E. (Light)
GUILFORD—Spencer's, I. S. Sons
MERIDEN—Dayton, C. L. (Organ)
Foster, Merriam & Co. (Casters, Drop Handles, Furniture Trimmings, Cabinet Hardware, etc.)
International Silver Co. (Coffin Trimmings, etc.)
Parker, Chas. Co. (Window Trimmings, etc.)
Wallace, F. J. (Saddlery)
MIDDLETOWN—Chapman, W. H., Co. (Saddlery)
Smith, J. O., Mfg. Co. (Stationers')
Wilcox, Crittenden & Co. (Marine, etc.)
MOUNT CARMEL—Woodruff, W. W. & Sons (Carriage & Automobile Mountings)
NEW BRITAIN—Corbin Cabinet Lock Co.
Corbin, P. & F. (Builders') (Trunk)
Humason & Beckley Mfg. Co. (Hardware & Pocket Cutlery)
Judd, Rollin D. (Builders & Saddlery)
Landers, Frary & Clark (Inc.), (Cutlery & Hdw. Specialties)
North & Judd Mfg. Co. (Harness Hardware, "Anchor Brand")
North & Pfeiffer Mfg. Co. (Specialties)
Russell & Erwin Mfg. Co. (Builders)
Stanley Rule & Level Co. (Carpenters' Tools)
**STANLEY WORKS (Wrought** Steel Butts, Brackets, etc.). (See adv. index, end of book)
Taplin Mfg. Co. (Specialties)
Union Mfg. Co. (Springs, Hinges, etc.)
NEW HAVEN—American Rivet Co. (Saddlery)
Atlas Mfg. Co. (Brackets, Wire & Sheet Metal Specialties)
Brown, R. H. & Co. (Specialties)
Cowles, C. & Co. (Malleable & Brass Hinges & Locks)
English & Mersick Co. (Carriage & Automobile Hardware & Specialties)
Fitch, W. & E. T. Co. (Sash Locks & Sadlery)
Henn, A. S. & Co. (Specialties)
Ives, H. B. Co. (Sash, Locks Lifts, Fasteners, etc.)
Kilborn & Bishop Co. (Forged)
Mallory-Wheeler Co. (Padlocks)
North, O. B. & Co. (Saddlery)
Ochsner, A. & Sons Co. (Auto & Carriage Locks, etc.)
Perpente Mfg. Co. (Carriage)
Sargent & Co. (Locks, Builders', Cabinet, & General Hardware)
Schollhorn, Wm. Co. (Pliers, etc., & Hardware Specialties)
Scranton & Co. (Specialties)
Seward, M. & Son Co. (Wagon)
Snow & Petrelli Mfg. Co. (Specialties)
OAKVILLE—Smith, S. & Son
PLAINVILLE—Clark, A. N. & Son (Watchmakers' Tools, etc.)
Hills, Edwin (Harness, etc.)
Osborne & Stevenson Mfg. Co.
PLANTSVILLE—Atwater Mfg. Co. (Carriage, Blakeslee Forging Co. (Carriage) etc.)
Smith, H. D. & Co. (Carriage)
SOUTHINGTON—Peck, Stow & Wilcox Co.
SOUTH NORWALK — Lockwood Mfg. Co.
Norwalk Lock Co. (Builders) (Builders)
STAMFORD—Davenport & Treacey Piano Co. (Piano Plates, etc.)
Potter, C. D., Co. (Piano)
Yale & Towne Mfg. Co. (Builders')
TERRYVILLE—Eagle Lock Co. (Locks, etc.)
TORRINGTON—Progressive Mfg. Co. (Piano, "Eagle")
**TURNER & SEYMOUR MFG. CO.** (Upholstery & Drapery). (See adv. index, end of book)
Union Hardware Co. (Skates & Hardware)
UNIONVILLE—Mosher & Hogarty (Saddlery)
WATERBURY—American Ring Co. (Upholstery & Cabinet), 531 Bank
Blake & Johnson Co. (Piano & Organ, etc.)
Morden Mfg. Corporation (Modern Rings & Loose Leaf Devices for Ledgers, Pamphlets, etc.)
Noera Mfg. Co. (Specialties)
Novelty Mfg. Co. (Specialties)
Plume & Atwood Mfg. Co. (Brass Butts, etc.)
Scovill Mfg. Co. (Brass Butts, etc.), 99 Mill
Shoe Hardware Co. (Buckles, etc.), 72 Brown
Waterbury Brass Goods Corporation (Brass Butts)
Waterbury Foundry Co.
Waterbury Mfg. Co. (Saddlery, Brass & Nickel Trimmings)
WATERVILLE—Berbecker & Rowland Mfg. Co. (Upholstery & Cabinet)
WINSTED—Empire Knife Co. (Pocket)
Moore, Franklin Co. (Carriage)
Morgan Silver Plate Co. (Casket & Coffin)
Richards, T. C. Hdw. Co. (Brass & Iron Specialties)
Strong Mfg. Co. (Casket & Coffins)

### DELAWARE.

WILMINGTON—Delaware Marine Supply Mfg. Co. (Brass & Bronze Hinges, etc.)

### GEORGIA.

ATLANTA—Wood, A. A. & Sons Co.

### ILLINOIS.

ARLINGTON HEIGHTS—Berbecker, Julius & Sons Co. (Upholsterers')
AURORA—**RICHARDS - WILCOX MFG.** Co. (Door Hangers & Kindred Specialties), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
CHICAGO—**ACME STEEL GOODS CO.** (Wrought Steel Hinges, etc.), Archer av
Farrell. (See adv. index, end of book)
Adjustable Clamp Co., 216 N Jefferson
American Toy & Novelty Mfg. Co. (Builders, etc.), 216 W Indiana
Beckley-Ralston Co. (Carriage & Automobile), 82 Michigan av
Cassady-Fairbank Mfg. Co. (Specialties), 6126 La Salle
Chicago Hardware Foundry Co. (Builders, etc.), 546 W Wash'n
Chicago Spring Butt Co. (Spring Butts, etc.), 334 Union Park pl
Coleman Hardware Co. (Builders'), 168 Michigan av
Duffy Mfg. Co. (Steel Tools & Hatchets), 214 W Indiana
Dearborn Hardware Mfg. Co. (Builders), 2911 Carroll av
Gardner Sash Pulley Co., 40 Dearborn
Harley Burglar Proof Ventilating Sash Lock Mfg. Co., 3341 Ogden av
Hiles, C. A. & Co. (Ice Tools, Specialties), 2431 W 14th av
Johnson, R. R. ("Johnson" Window Shade Adjuster), 161 Randolph
Kienzle & Kuhles (Saddlery), 845 W Ohio
Lawson Mfg. Co. (Ball Bearing, Pivot Floor Hinges, etc.), 40 Dearborn
National Mfg. & Lock Co. (Locks, etc.), 215 W Huron
Nicol & Co. (Specialties), 218 N Jefferson
Payson Mfg. Co. (Builders, etc.), 2918 W Jackson boul
Pratt, Wm. E. Mfg. Co., 91 Lake
Read, A. P. Co. (Specialties), 427 Randolph
Russell & Erwin Mfg. Co. (Builders, etc.), 17 Lake
**STANLEY WORKS (Wrought Steel** Butts, Brackets, etc.), 22 Lake. (See adv. index, end of book)
Superior Spring Hinge Co. (Builders), 152 E Lake
Vaughan & Bushnell Mfg. Co., 2130 Carroll av
Western Brass Mfg. Works (Inc.) (Builders', Cabinet, etc.), 21st & Campbell av
ELGIN—Western Casket Hardw. Co. (Casket)
FREEPORT—**ARCADE MFG. CO.** (See adv. index, end of book)
Stover Mfg. Co. (Builders, etc.)
GALESBURG—Wenzelmann Mfg. Co. (Specialties)
GENEVA—Burgess-Norton Mfg. Co. (Specialties)
HARVARD—Hunt, Helm, Ferris & Co. (Barn Door Hangers, Latches, etc.)
LOCKPORT—Barrows Lock Co. (Builders)
MOLINE—Cooper, H. W. (Saddlery)

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MORRIS—Nickel Mfg. Co. (Specialties)
NORTH CHICAGO—Chicago Hardware Co. (Builders, etc.)
Chicago Hardware Foundry Co.
PANA—Progressive Mercantile & Mfg. Co. (Specialties)
ROCKFORD—Andrews Wire & Iron Works (Specialties)
Sovereign, C. E. Co. (Specialties)
Spengler Bros. Co.
STERLING—Lawrence Bros. (Door Hangers, Hinges, etc.)
National Mfg. Co. (Builders, Door Hangers, etc.)
Sterling Foundry Co. (Specialties)
SYCAMORE—Turner Brass Works (Specialties)

## INDIANA.

CONNERSVILLE—Stant, Geo. Machine Works (Carriage, Piano, etc.)
INDIANAPOLIS—Tucker & Dorsey Mfg. Co. (Specialties), State av c Bates

## IOWA.

CEDAR FALLS—Wagner Mfg. Co. (Specialties)
CEDAR RAPIDS—Myers, F. E. & Bro.
DES MOINES—Watrous, E. L. Mfg. Co. (Sash Hangers, Fasteners, etc.)
DUBUQUE—Loetscher-Ryan Mfg. Co. Specialties)
KEOKUK—Decker Mfg. Co. (Specialties)
Weber-Kirch Mfg. Co. (Specialties)
LYONS—Lyons Mfg. Co. (Specialties)
United States Steel Lock Co.
OTTUMWA—Johnston & Sharp Mfg. Co. (Steel Sash Pulleys, etc.)

## KANSAS.

LEAVENWORTH—Hesse, W. G. & Son Mfg. Co. (Wagon)
OSKALOOSA—U. S. Bridle Bit Co.

## KENTUCKY.

NEWPORT—Higgin Mfg. Co. (Carriage & Metal Screens)

## MAINE.

BATH—Torrey Roller Bushing Works (Marine)
Watson, Frye & Co. (Marine)
PORTLAND—Laughlin, Thos. Co.
Marine Hardware & Equipment Co. (Marine)
S. P.
SKOWHEGAN—Williams, C. A. & Co. (Hatchets, etc.)
SOUTH UNION—Jones, S. W. (Door Hinges)

## MARYLAND.

BALTIMORE—Dix Mfg. Co., 1021 Guilford av
Duer, Jno. & Sons (Cabinet, etc.)
Gibson & Kirk Co. (Brass Marine), 517 E Montgomery
Hutton, G. H. & Co. (Carriage), 1515 Harford
Kemp, C. M. Mfg. Co. (Sash Locks, Holders, etc.), 401 E Oliver
Sinclair-Scott Co. (Specialties)
Whiting, Wm. H. & Co. (Marine Specialties), 222 E Pratt
FREDERICK—Zimmerman, G. F. S. & Co. (Builders' Specialties)

## MASSACHUSETTS.

ATTLEBORO—Wilmarth, W. D. & Co., Corp'n (Casket)
BOSTON—Austin & Eddy (Builders), 117 Broad
Barwood, L. J. Co. (Specialties), 387 Albany
Bliss Bros. (Marine) 170 Commercial
Ferdinand, L. W. & Co. (Marine), 201 South
Hall, Wm. & Co. (Asylum & Prison Locks, etc.), 4 Dock sq
McGreece, Jas. P. & Co. (Piano), 262 Dover
Norton Door Check Co., 102 Pearl
Specialtiy Mfg. Co. (Carriage & Chafe Irons), 88 Tremont
Weld Mfg. & Supply Co. (Shoe Buckles)
BROCKTON—Tuck Mfg. Co. (Tools & Cutlery)
FISKDALE—Snell Mfg. Co. (Bits, Augers, etc.)
GREENFIELD—Goodell-Pratt Co. (Drills, Saw Blades, etc.)
HOLYOKE—Coburn Trolley Track Mfg. Co. (Hangers & Tracks)
NEEDHAM—Orr, Galen & Co. (Blind Trimmings, etc.)
PEABODY—Marine Hardware Co. (Yacht)
SOMERVILLE—Forg, P. (Cabinet)
WESTFIELD—Rogers & Whitney Co. (Casket Mountings)
WINCHENDON—New England Lock & Hinge Co. (Tin Hinges, Chest Locks, etc.)
WORCESTER—Allen, Chas. (Fire Department Supplies), 84 Foster
Eagan, T. F. Hardware Co. (Specialties)
Hamblin & Russell Mfg. Co. (Specialties)
**WORCESTER PRESSED STEEL** Co. (Stamped Steel). (See adv. index & branch offices, end of book)

## MICHIGAN.

DETROIT—Casket Hardware Mfg. Co. (Casket)
Detroit Register Co. (Specialties)
Detroit Shipbuilding Co. (Marine, Brass)
Douglas & Lomason Co. (Carriage)
Flint Specialty Co. (Carriage), Flint, Mich.
P. R. Mfg. Co. (Specialties)
**VOELKNER & HARRY MANUFAC**turing Co. (Cabinet & Furniture), 282 Woodbridge, E. (See adv. index, end of book)
FLINT—Flint Specialty Co. (Carriage)
GRAND RAPIDS—Grand Rapids Hdw. Co.
Hardware Supply Co. (Door Catches & Cabinets, etc.)

## MINNESOTA.

FERGUS FALLS—Fergus Iron Works Co (Sash Weights, Sinks, etc.)

## MISSOURI.

ST. LOUIS—American Foundry & Mfg. Co.
Hager, C. & Sons Hinge Mfg. Co.
Kupferle, John C. (Plumbers' Specialties)
Nixdorf-Krein Mfg. Co., 900 Howard
St. Louis Trunk Hdw. Mfg. Co. (Trunk Hdw.), 609 Chouteau av

## NEW HAMPSHIRE.

NASHUA—Nashua Saddlery Hardware Co.

## NEW JERSEY.

BELLEVILLE—Knickerbocker Mfg. Co.
FLEMINGTON—Mallory Mfg. Co. (Shutter Worker, etc.)
IRVINGTON—Ross, Jos., Jr., & Co. (Specialties)
NEWARK—Ahrend, Herman & Son (Trunk, etc.), 179 Van Buren
Baldwin, Joseph & Co. (Saddlery)
Brabson Bros. (Specialties), 47 Hamilton
Buermann, August (Bits, Spurs, Stirrups, etc.), 220 Jelliff av
Crane, W. T. Carriage Hardware Co.
Drake, Mahlen, S. & I. T. (Specialties), 15 Duranoid Mfg. Co. (Specialties) Stirling
Felder, R. & Co. (Specialties)
Freeman, A. W. (Saddlery), 67 N. J. R. R.
Gilchrist Co. (Specialties) av
Gould's, M. Son & Co. (Trunk), 61 Hamilton
Greacen, Walter & Co. (Saddlery)
Grossner, Fred W. (Saddlery), 392 Bank
Havell Mfg. Co. (Trunk & Bag Trimmings)
Huebel Mfg. Co. (Specialties), 103 Monroe
Jenkinson, R. C. & Co. (Sheet Metal & Wire Goods), 289 Washington
Lukes, Wm. (Stationers' & Novelties), 857 S 19th
Myer, Benj. Co. (Builders'), 470 Broad
O'Neill & O'Neill (Specialties)
Reynold & Zahn Co. (Saddlery)
Romer & Co. (Inc.) (Lock, etc.), 275 Pas-
Sargeant Mfg. Co. (Saddlery) sale
Searls Mfg. Co. (Carriage Mountings)
Smith, G. L. & Co. (Saddlery)
Thomas, T. & Co. (Socks)
Whitehouse, E. A. Mfg. Co. (Saddlery, Silver Trimmings)
Wiss, J. & Sons (Cutlery)
TRENTON—Skillman Hardware Mfg. Co.

## NEW YORK.

ALBANY—Gomph, Henry G. & Co. (Saddlery, Tools)
AUBURN—Clapp, E. D. Mfg. Co. (Carriage)
Eccles, Richard Co. (Carriage, etc.)
BINGHAMTON—Binghamton Hardware Specialty Co. (Specialties)
Crandall, Stone & Co. (Carriage & Wagon)
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bennett Mfg. Co., 420 Auburn av
Brown, S. A. (Specialties), 385 Washing-
Buffalo Specialty Co., 375 Ellicott ton
Clipper Tool Co., 137 Washington
Forsyth Mfg. Co. (Specialties), 308 Terrace
Hutchins Mfg. Co., 75 Massachusetts av
Josef, E. E. Mfg. Co. (Specialties), 14 Perry
Keim, Jno. R. Mills (Inc.) (Pressed Steel Specialties)
Monarch Hardware Co., 200 Terrace
Pratt & Letchworth Co. (Carriage)
CORTLAND — Cortland Specialty Co. (Carriage)
Nelson & Call Co. (Carriage)
ELMIRA—Cronk & Carrier Mfg. Co. (Specialties)
GENEVA—Geneva Cutlery Co.
HOMER—Phoenix Hardware Mfg. Co.
JAMESTOWN—Weber-Knapp Co. (Furniture)
MANLIUS—Cheney, S. & Son (Grey Iron Specialties)

## NEW YORK CITY.

### Borough of Brooklyn.

**BOMMER SPRING HINGES**
257 to 271 Classon av. (See adv. index, end of book)
Brass Goods Mfg. Co. (Builders, Refrigerator & Specialties), Nevin cor Union

### Boroughs of Manhattan & Bronx.

NEW YORK—Bayer-Gardner-Himes Co. (Builders), 157 W 29th
Corbin, P. & F., 106 Lafayette
Creamer, W. G. & Co. (Car), 96 John
Durkee, Chas. D., & Co. (Marine), 2 South
Gould's, M. Son & Co. (Trunk), 83 Reade
Guerin, P. E. (Inc.), 23 Jane
Haas, Henry & Son (Piano), 1909 Park av
**HAMMACHER, SCHLEMMER &** Co. (Builders, etc.), 133 4th av. (See adv. index, end of book)
Hanson & Rhodes (Builders), 157 W 29th
Hardware & Woodenware Mfg. Co. (Builders' Specialties, Toys, etc.), 693 B'way
Jennings, C. E. & Co. (Mechanics' Tools & Specialties), 42 Murray
Judd, H. L. Co. (Upholstery, Stationary & Fancy), 87 Chambers
Keil, Francis & Son, 401 E 163d
**McCABE HANGER MFG. CO. (Door** Hangers, etc.), 425 W 25th. (See adv. index, end of book)
McMillan's, W. H. Sons (Marine), 153 South
Morton, Thos. (Firm of) (Sash Chains, etc.), 245 Centre
Peck, Stow & Wilcox Co. (Hinges, etc.), 27 Murray
Plume & Atwood Mfg. Co. (Butt Hinges, etc.), 279 B'way
Russell & Erwin Mfg. Co., 96 Lafayette
Sargent & Co., 94 Center
Smith & Egge Mfg. Co., 62 Reade
**SMITH & HEMENWAY CO., 150** Chambers. (See adv. index, end of book)
**STANLEY WORKS, 100 Lafayette.** (See adv. index, end of book)
Tiebout, W. & J. (Brass & Galvanized), 118 Chambers
Yale & Towne Mfg. Co. (Builders), 9 Murray

**(End of New York City)**

NIAGARA FALLS — **NIAGARA FALLS** Metal Stamping Works (Specialties). (See adv. index, end of book)
OGDENSBURG—Newell Mfg. Co. (Upholstery, etc.)
POUGHKEEPSIE—Lane Bros. Co. (Door Hangers, etc.)
Schatz Mfg. Co. (Specialties)
ROCHESTER—Caldwell Mfg. Co. (Sash Balances, etc.), 8 Jones
Pullman Mfg. Co. (Sash Balances, Door Checks & Springs)
Sargent & Greenleaf Co. (Locks)
SARANAC LAKE—Adirondack Hardware Co.
SYRACUSE — Central City Bolt Co. (Door Hangers)
Frazer & Jones Co. (Saddlery)
Stearns, E. C. & Co. (Door Hangers, etc.)
TROY—Covert Mfg. Co. (Saddlery)
Kilbourne Mfg. Co. (Specialties)
Read, O. B. Mfg. Co. (Saddlery)
UTICA—Blasier, M. E. & Co. (Marine)
WATERFORD—King, J. M. & Co. (Stocks, Dies, etc.)
WATERTOWN—Wise, Jas. B. (Specialties of Pressed Work)

## OHIO.

ASHLAND—Myers, F. E. & Bro. (Builders' Hardware)
CANTON—Buckeye Mfg. Co. (Specialties)
Canton Malleable Iron Co. (General Saddlery)
Elbel Co. (Saddlery, etc.)
Gibbs Mfg. Co. (Specialties)
Kohler, F. E. & Co. (Specialties)
Ney Mfg. Co. (Hangers, etc.)
Novelty Cutlery Co. (Cutlery Mfrs.)

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CINCINNATI—Enterprise Brass & Plating Co. (Vehicle Mountings), 2838 Spring Grove av
Haven Malleable Castings Co. (Saddlery)
Monarch Carriage Goods Co.
National Brass Mfg. Co. (Furniture & Hearse Trimmings, etc.)
Queen City Forging Co. (Carriage)
Schriver, O. P. & Co. (Specialties)
Schroder, J. B. & Co. (Builders, etc.), 132 Tatum, S. C. Co. (Stationers.) E 5th
CLEVELAND—Bronson-Walton Co.
Cleveland Hardware Co.
Cleveland Lock Co.
Columbian Hardware Co.
Eberhard Mfg. Co. (Carriage & Wagon)
**GLOBE MACHINE & STAMPING** Co. (Manufactured to Order), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Independent Register & Mfg. Co. (Specialties)
Langenau Mfg. Co., Franklin av, opp Lowell
Russ, A. E. Co., 6813 Wade Park av, N E
Taylor & Boggis Fdry. Co. (Builders, etc.)
Walworth Run Foundry Co. (Specialties)
COLUMBUS—Hayden, P. Saddlery Hardware
Lanman, E. B. Co. (Carriage) Co.
West Mfg. Co. (Specialties)
DAYTON—Dayton Malleable Iron Co. (Carriage)
McCormick Mfg. Co. (Night Latches, Door & Sash Locks, etc.)
FREDERICKTOWN—Zieg, F. B. Mfg. Co. (Specialties)
FREMONT—Herbrand Co. (Carriage & Wagon)
GENEVA—Champion Saftey Lock Co. (Locks),
KENT—Miller Keyless Lock Co. etc.)
MANSFIELD—Ohio Brass Co. (Saddlery, etc.)
MINERVA — Minerva Hardware Mfg. Co. (Bldrs. & Specialties)
URBANA—Walker, Edwin Co. (Specialties)

## PENNSYLVANIA.

ALLENTOWN—Kline Hardware Co. (Specialties)
BRACKENRIDGE—Western Tool & Forge Co. (Awnings, etc.)
CHESTER—Keystone Drop Forge Works (Carriage & Wagon)
COLUMBIA—Columbia Grey Iron Co. (Builders)
ELDRED—Prouty, C., & Co. (Tools, etc.)
ERIE—Erie Specialty Co. (Ice Picks, Cork Screws, Cork Pullers, etc.)
Griffin Mfg. Co. (Strap & T Hinges, Brackets, Door Bolts, etc.)
FREEMANSBURG—Shimer, Wm. Son & Co.
FULLERTON—Dent Hardware Co. (Refrigerator Trimmings)
GIRARD—Ely, Theo. J. Mfg. Co. (Specialties)
GLEN ROCK—Glen Rock Stamping Co. (Specialties)
LANCASTER—Safe Padlock & Hardware Co. (Shelf Hardware)
Slaymaker Lock Mfg. Co. (Builders, Car & Ship)
LEONA—Ely, E. C. Co. (Specialties)
MECHANICSBURG—Wilcox, D. Mfg. Co. (Carriage)
NORTH EAST—Fernald Mfg. Co. (Carriage)
PHILADELPHIA — Andrews Mfg. Co. (Door Knobs), 388 Harmony
Berger Bros. Co. ("Keystone" Boiler Handles), 237 Arch
Brewer Bros. (Builders'), 614 Filbert
Brohard Co. (Doorholders, etc.), 3rd & Lehigh)
Devlin, Thos. Mfg. Co. (Carriage, Saddlery, Trunk Tinners, Builders, etc.), 3d & Lehigh av
Enterprise Mfg. Co. (Specialties), 3d & Dauphin
Hutton, R. W. & Co. (Specialties), 524 Walnut
Klufkee's, John Sons (Harness Mountings, etc.), 628 Race
Miller Lock Co. (Locks), 4523 Tacony, Fkd.
Mousley's, Chas., Sons (Car, Brass & Bronze), 457 N 12th
Nock, Geo. W. Co. (Inc.) (Locks), 126 N 4th
North Bros. Mfg. Co. (Screw Drivers & Specialties), Lehigh av & N American
Royal Mfg. Co. (Household Specialties), 408 Commerce
Simpson, Jos. D. (Specialties), 724 Beach
Smith, J. Barton Co. (Screw Drivers, Ice Picks, etc.), Norris & Hope
PITTSBURG—McKinney Mfg. Co. (Hinges, Butts, Door Hangers), North Side
Oliver Iron & Steel Co. (Wagon)
POTTSDAM—Colebrookdale Iron Co. (Specialties)
READING—Chantrell Tool Co. (Builders' Shelf)
Franklin Specialty Co. (Hardware & Household Specialties)
Penn Hardware Co. (Builders, etc.)
Rapp, N. N., 142 Orange
Reading Hardware Co. (Builders, etc.)
SHARON—Sharon Hardware Mfg. Co. (Builders'),
WILLIAMSPORT — Williamsport Staple Co. (Harness Specialties)
WRIGHTSVILLE — Wrightsville Hardware Co. (Builders & Specialties)

## TENNESSEE.

CHATTANOOGA—American Mfg. Co. (Light)
Southern Skein & Foundry Co. (Wagon)

## VERMONT.

WINDSOR—Hubbard & McClary (Specialties, Hangers)

## VIRGINIA.

RICHMOND—Richmond Cedar Works (Specialties)

## WEST VIRGINIA.

WHEELING—Hazel Atlas Glass Co.

## WISCONSIN.

BERLIN—Peck-Hamre Mfg. Co. (Specialties)
LA CROSS—Stamping & Tool Co. (Dies, Tools & Specialties)
MENASHA—Onward Mfg. Co. (Door Catches, Sash Fasteners, etc.)
MILWAUKEE—Luitink & Sons Mfg. Co. (Door Hangers)
NORTH MILWAUKEE—Wagner, E. R. Mfg. Co. (Specialties for Children's Vehicles, etc.)
RACINE—Advance Mfg. Co. (Specialties)
American Skein & Foundry Co. (Wagon)
Imperial Bit & Snap Co. (Saddlery, Wagons, etc.)
Racine Malleable & Wrought Iron Co. (Saddlery)
Racine General Mfg. Co. (Specialties)
SHEBOYGAN—Diehl Novelty Co. (Specialties)
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co. (Wagon Malleables, Clevises, etc.)

## 4516a—Hardware Mfrs. (Automobile)

(See Mountings, Automobile; also Hardware Manufacturers, Carriage)

## 4518—Hardware Mfrs. (Cabinet)

Snow & Petrelli Mfg. Co., New Haven, Conn.
Stant, Geo. Machine Works, Connersville, Ind.
Wilcox, Crittenden & Co., Middletown, Conn.

## 4519—Hardware Mfrs. (Cabinet)

American Ring Co., Waterbury, Conn.
Berbecker, Julius & Sons Co., Arlington Heights, Ill.
Berbecker & Rowland Mfg. Co., Waterville, Conn.

BOMMER SPRING HINGES
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Brass Goods Mfg. Co., Union c Nevins, Brooklyn, N. Y.
Burns & Bassick Co., Brideport, Conn.
Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Corbin Cabinet Lock Co., New Britain, Conn.
Christensen, Rudolph & Co., 54 Warren, New
Duer, Jno. & Sons, Baltimore, Md. York
Foster, Merriam & Co. (Casters, Pulls, Knobs, Escutcheons, etc.), Meriden, Conn.
Guerin, P. E. (Inc.), 23 Jane, New York
Grammes, L. F. & Sons, Allentown, Pa.
**HAMMACHER, SCHLEMMER & CO.**, 133 4th av, New York (See adv. index, end of book)
Hardware Supply Co., Grand Rapids, Mich.
Loeffelholz Co., Milwaukee, Wis.
National Brass Mfg. Co., Cincinnati, O.
National Lock Co. (Brass & Plated), Rockford, Ill.
Osborne & Stevenson Mfg. Co., Plainville,
Reading Hardware Co., Reading, Pa. Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)
**VOELKNER & HARRY MANUFAC**turing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
Weber-Knapp Co. (For Furniture), Jamestown, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 4519—Hardware Mfrs. (Car)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.

BOMMER SPRING HINGES
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Brill, J. G. Co., 62d & Woodland av, Phila.,
Creamer, W. C. & Co., 96 John, New York Pa.
Dayton Mfg. Co., Dayton, Ohio
Delaware Marine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.
Mousley, Chas. & Sons (Brass & Bronze), 457 N 12th, Philadelphia, Pa.
Slaymaker Lock Mfg. Co., Lancaster, Pa.

## 4520—Hardware Mfrs. (Carriage)

American Skein & Foundry Co. (Wagon), Racine, Wis.
Atwater Mfg. Co., Plantsville, Conn.
Beckley-Ralston Co. (Carriage & Automobile), 80 Michigan av, Chicago, Ill.
Blakeslee Forging Co., Plantsville, Conn.
Clapp, E. D., Mfg. Co., Auburn, N. Y.
Cleveland Hardware Co., Cleveland, O.
Cortland Specialty Co., Cortland, N. Y.
Cowles, C., & Co., New Haven, Conn.
Crandell, Stone & Co., Binghamton, N. Y.
Crane, W. T., Carriage Hardware Co. (Iron, Steel, Wheels, etc.), Newark, N. J.
Dayton Malleable Iron Co., Dayton, O.
Devlin, Thos., Mfg. Co., 3d & Lehigh av, Phila., Pa.
Douglas & Lomason Co., Detroit, Mich.
Eberhard Mfg. Co., Cleveland, O.
**Eccles, Richard Co. (also Drop Forgings), Auburn, N. Y.**
English & Mersick Co., New Haven, Conn.
Fernald Mfg. Co. (Quick Shifts, Anti-Rattlers, Whip Sockets, etc.), North East, Pa.
Flint Specialty Co. (& Wagon), Flint, Mich.
Franklin Park Foundry Co., Franklin Park, Ill.
Harper, W. J. Co., 231 Mulberry, Newark, N. J.
Haury, J. F. Co., 2612 Lorain av, Cleveland, O.
Havens Malleable Castings Co., Cincinnati, O.
Herbrand Co., Fremont, O.
Hesse, W. G. & Son Mfg. Co. (Wagon), Leavenworth, Kans.
Higgin Mfg. Co., Newport, Ky.
Hutton, G. H. & Co., Baltimore, Md.
Imperial Bit & Snap Co. (Wagon), Racine, Wis.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Lanman, E. B. Co. (Corner Irons, Clip Ties, Felloe Plates, etc.), Columbus, O.
Monarch Carriage Goods Co., Cincinnati, O.
Moore, Franklin Co., Winsted, Conn.
Nelson & Call Co., Cortland, N. Y.
Ochsner, A. & Son (Coach & Carriage Lamps), New Haven, Conn.
Oliver Iron & Steel Co. (Wagon), Pittsburg, Pa.
Perpente Mfg. Co., 3 Wall, New Haven, Conn.
Pratt & Letchworth Co., Buffalo, N. Y.
Queen City Forging Co., Cincinnati, O.
Racine Malleable & Wrought Iron Co. (Wagon), Racine, Wis.
Schroder, J. B. & Co., Cincinnati, Ohio
Searls Mfg. Co. (And Carriage Mountings), 27 Mulberry, Newark, N. J.
Seward, Moses & Son Co. (Wagon), New Haven, Conn.
Smith, H. D. & Co., Plantsville, Conn.
Southern Skein & Foundry Co. (Wagon), Chattanooga, Tenn.
Specialty Mfg. Co. (Chafe Irons), Boston, Mass.
Stant, Geo. Machine Works, Connersville, Ind.
Stowell Mfg. & Foundry Co. (Wagon Malleables, Clevises, etc.). South Milwaukee, Wis.
White Mfg. Co., Bridgeport, Conn.
Wilcox, D. Mfg. Co., Mechanicsburg, Pa.
Woodruff, Walter W. & Sons Co. (Carriage & Automobile Mountings, etc.), Mt. Carmel, Conn.
**WORCESTER PRESSED STEEL CO.**, Worcester, Mass. (See adv. index & branch offices, end of book)

## 4521—Hardware Mfrs. (Casket)

Aluminum Castings Co. (Castings), Cleveland, Ohio
Casket Hardware Mfg. Co., Detroit, Mich.
Crane & Breed Co., Cincinnati, Ohio
Eagle Valley Works, Dubuque, Iowa
Eldridge & Co. (Coffin Plates), Taunton, Mass.
International Silver Co. (Silver Plated), Meriden, Conn.
Morgan Silver Plate Co. (And Funeral Supplies), Winsted, Conn.
Rogers & Whitney Co., Westfield, Mass.
Western Casket Hardware Co., Elgin, Ill.

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## 4521a—Hardware Mfrs. (Fire Door)

**DUSING & HUNT, 386 Michigan av,** Buffalo, N. Y. (See adv. index, end of book)

**FIRE DOOR HARDWARE**
We can fill your order for Standard, Approved Hardware upon date of receiving same. Can make anything special needed in this line.
**DUSING & HUNT**
**BUFFALO, N. Y.**

## 4522—Hardware (Mfrs.) for Sewing Machine Woodwork

Wise, J. B., Watertown, N. Y.

## 4523—Hardware Mfrs. (Marine)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Blaster, M. E. & Co., Utica, N. Y.
Bliss Bros., 170 Commercial, Boston, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Delaware Marine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.
Detroit Shipbuilding Co. ("Kirby") (Brass Department), Detroit, Mich.
Durkee, Chas. D. & Co., 2 Water, New York
Gibson & Kirk Co. (Brass), 517 E Montgomery, Baltimore, Md.
Laughlin, Thos. Co., Portland, Me.
McMillan's, W. H. Sons, 153 South, New York
Marine Hdw. Co. (Yacht), Peabody, Mass.
Marine Hardware & Equipment Co., South Portland, Me.
Morss, A. S. Co. (Motor Boat Fittings, etc.), Boston, Mass.
Mousley, Chas. & Sons (Brass, Bronze, etc.), 457 N. 12th, Phila., Pa.
Norwalk Lock Co., South Norwalk, Conn.
Pullman Mfg. Co., Rochester, N. Y.
Slaymaker, S. R. (Also Ship), Lancaster, Pa.
Torrey Roller Bushing Works, Bath, Me.
Turner Brass Works, Sycamore, Ill.
Union Hardware Co., Torrington, Conn.
Watson, Frye & Co., Bath, Me.
Whiting, Wm. H. & Co., Baltimore, Md.
Wilcox, Crittenden & Co., Middletown, Conn.
Wilkinson, A. J. & Co., 188 Washington, Boston, Mass.

## 4524—Hardware Mfrs. (Metal Window)

Smith, Frank F. Metal Window Hardware Co. ("Smith's", Pivoted Window Hardware, etc.), Newark, N. J.

## 4525—Hardware Mfrs. (Piano & Organ)

Blake & Johnson Co., Waterbury, Conn.
Cornwall & Patterson Mfg. Co., Bridgeport, Conn.
Davenport & Tracey Piano Co., Stamford, Conn.,
Haas, Henry & Son, 1909 Park av., New York.
**HAMMACHER, SCHLEMMER & CO., 133** 4th av, New York. (See adv. index, end of book)
Moore, G. W., Boston, Mass.
Potter, C. D. Co., Stamford, Conn.
Progressive Mfg. Co. (Piano Action Hardware Only), Torrington, Conn.
Screw Machine Products Corporation (Piano Action), Providence, R. I.
Standard Co. (Also Piano Player Hardware), Tarrington, Conn.
Stant, Geo. Machine Works (Piano), Connersville, Ind.
West Side Foundry Co., Troy, N. Y.

## 4526—Hardware Mfrs. (Saddlery)

American Rivet Co., New Haven, Conn.
Brabson Bros., Newark, N. J.
Buerman, August (Bits, Spurs, Stirrups, etc.), 37 N. J. R. R. av, Newark, N. J.
Canton Malleable Iron Co., Canton, O.
Chapman, W. H. Co., Middletown, Conn.
Columbus Chain Co., Columbus, Ohio
Cooper, H. W. Saddlery Hdwe. Mfg. Co., Cotton Mfg. Co., Montpelier, Vt. Moline, Ill.
Covert Mfg. Co., Troy, N. Y.
Devlin, Thos. Mfg. Co., 3d & Lehigh av, Phila., Pa.
Dorries & Co., 173 Ellicott, Buffalo, N. Y.
Duranoid Mfg. Co. (Duranoid Specialties), Newark, N. J.
Eberhard Mfg. Co., Cleveland, O.
Elbel Co. ("Owl Brand"), Canton, O.
Fernald Mfg. Co., North East, Pa.
Fitch, W. & E. T. Co., New Haven, Conn.
Frazer & Jones Co., Syracuse, N. Y.
Freeman, A. W., Newark, N. J.
Gomph, Henry G. & Co. (Tools), Albany, N. Y.
Greacen, Walter & Co., Newark, N. J.
Grossner, Fred W., 392 Bank, Newark, N. J.
Havens Malleable Castings Co., Cincinnati, O.
Hayden, P. Saddlery Hdw. Co., Columbus, O.
Hills, Edwin (Harness, etc.), Plainville, Conn.
Imperial Bit & Snap Co., Racine, Wis.
Judd, Rollin D., New Britain, Conn.
Kienzle & Kuhles, 319 W Ohio, Chicago, Ill.
Klufkee's, Jno Sons (Harness Mountings, etc.), 628 Race, Phila., Pa.
Morley Brothers (Inc.), Saginaw, Mich.
Mosher & Hogarty, Unionville, Conn.
Nashua Saddlery Hdw. Co., Nashua, N. H.
North, O. B. & Co., New Haven, Conn.
North & Judd Mfg. Co. ("Anchor" Brand, Saddlery, Blanket, etc.), New Britain, Conn.
Ohio Brass Co., Mansfield, O.
Perforated Pad Co., Woonsocket, R. I.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Read, O. B. Mfg. Co., Hall bldg, Troy, N. Y.
Reynold & Zahn Co., Newark, N. J.
Sargeant Mfg. Co., Newark, N. J.
Smith, G. L. & Co., Newark, N. J.
Smith, John H. & Sons., 57 Terrace, Buffalo, N. Y.
U. S. Bridle Bit Co. (Bits, etc.), Oskaloosa, Kan.
Wallace, F. J., Meriden, Conn.
Whitehouse, Edw. A. Mfg. Co. (Specialty Silver Trimmings), Newark, N. J.
Williamsport Staple Co. (Harness Specialties), Williamsport, Pa.
**WORCESTER PRESSED STEEL CO.** (Stamped), Worcester, Mass. (See adv. index & branch offices, end of book)

## 4526a—Hardware Mfrs. (Screen Door)

(See Index of Contents for Specific Article Wanted)

## 4527—Hardware Mfrs. (Stationery)

Guerin, P. E. (Inc.) (Bronze), 23 Jane, New York
Tatum, Samuel C. Co., Cincinnati, O.

## 4528—Hardware Mfrs. (Theatre Stage)

Clancy, Jno. R., Syracuse, N. Y.
**McCABE HANGER MFG. CO., 425 W** 25th, New York. (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 4529—Hardware Mfrs. (Trunk & Bag)

Ahrend, Herman & Son, Newark, N. J.
Atco Metal Mfg. Co., Atco, N. J.
Corbin Cabinet Lock Co., New Britain, Conn.
Gould's, M. Son & Co., 83 Reade, New York
Havell Mfg. Co. (Trimmings), Newark, N. J.
Jenkinson, R. C. & Co. (Sheet Metal & Wire Goods, etc.), Newark, N. J.
Keim, Jno. R. Mills (Inc.), Buffalo, N. Y.
Milwaukee Stamping Co., West Allis, Wis.
Neumann, R., Hardware Co., Newark, N. J.
St. Louis Trunk Hardware Mfg. Co., 609 Chouteau av, St. Louis, Mo.
Sessions, J. H. & Son (Malleable Iron & Steel Trimmings, etc.), Bristol, Conn.

## 4530—Hardware Mfrs. (Upholstery)

Berbecker, Julius & Sons Co., Arlington Heights, Ill.
Berbecker & Rowland Mfg. Co. Waterville, Conn.
Kroder, Jno. & Henry Reubel Co., Meeker av, Brooklyn, N. Y.
Newell Mfg. Co., Ogdensburg, N. Y.
Novelty Mfg. Co., Waterbury, Conn.
**TURNER & SEYMOUR MFG. CO.** (Also Drapery Hardware), Torrington, Conn. (See adv. index, end of book)

## 4530a—Hardware Mfrs. (Wagon)

(See Firms in Hardware, Carriage, with the word Wagon following their names)

## Hardware Trimmings (Porcelain)

(See Porcelain Specialties, Electrical, Mechanical, Etc.)

## 4531—Hardware (Wholesale)

The firms under this classification are Wholesalers and firms who do Local Jobbing.
See also Contractors' Tools & Supplies; also Mill & Factory Supplies; also Tin Plate, Metals, etc. For Manufacturing Firms see Hardware Mfrs.; also the Specific Articles Required.

### ALABAMA.

ANDALUSIA—Benson Hardware Co. (General, Builders', Tools, Cabinet, Paints & Oils, etc.)
ANNISTON—Anniston Hardware Co. (General & Saddlery)
BIRMINGHAM—Crane Co. (General, Plumbers' & Machinery)
Moore & Handley Hardware Co. (Shelf, Heavy & Carriage)
Wimberly & Thomas Hardware Co. (General, Heavy & Tools)
BREWTON—Luttrell Hardware Co. (General)
EUFAULA—Ross, J. L. (General)
EUTAW—Cook-Rogers Hardware Co. (General, Builders', Tools, etc.)
EVERGREEN—Wild Bros. Hardware Co.
GADSDEN—Ewing Hardware Co. (General, Saddlery, Mine, Mill & Furnace)
HUNTSVILLE—Collins, M. A.
McAnelly, J. H. & Bro.
MOBILE — Barney-Cavanagh Hardware Co. (General, Heavy, Ship Chandlery, etc.) (Exporters)
Cunningham Hardware Co. (General & Heavy)
Price, H. M. Co. (General)
Southern Hardware Supply Co.
MONTGOMERY—Barnett, G. W. Hardware Co. (General)
Snow-Tullis Hardware Co. (General, Builders' & Tools)
Teague & Sons (General & Heavy)
OXFORD—Burton & Co.
ROANOKE—Griffin & Satterwhite
Roanoke Hardware Co.
SELMA—Robbins Hardware Co.
Schuster, Benj. J. (General, Builders' & Heavy)
Selma Hardware Co.
TROY—Simpson, C. A. & Co.
TUSCALOOSA—Allen & Jemison Co. (General)

### ALASKA TERRITORY.

JUNEAU—Jorgensen, J. P. & Co.
Young, C. W. Co.
NOME—Darling-Dean & Co.

### ARIZONA TERRITORY.

NOGALES—Gebler, Theo.
Marsh, Geo. B. (Inc.)
Proto Bros.
Roy & Titcomb (Heavy, etc.)
PHOENIX—Talbot & Hubbard
PRESCOTT—Hill, Samuel Hardware Co.
SAFFORD—Olney Hardware Co.
TUSCON—Steinfeld, Albert & Co.

### ARKANSAS.

CAMDEN—Camden Hdw. & Mill Supply Co.
FORT SMITH—Atkinson-Williams Hardware Co. (General & Heavy)
Speer Hardware Co. (General Machinery, etc.)
HELENA—Helena Hardware Co.
HOT SPRINGS—Whittington, Stearns & Co. (General, Heavy & Carriage)
LITTLE ROCK—Fones Bros. Hardware Co.
Rose-Lyon Hardware Co. (General & Heavy)
MAGNOLIA—Warnock, W. H.
PINE BLUFF—Fox Bros. Hardware Co. (General)
McGaughey Hardware Co. (General & Stoves)
TEXARKANA—Chatfield & Buhrman Hardware Co.
Hoffman Hardware Co.

### CALIFORNIA.

LOS ANGELES—Baker & Hamilton (General & Heavy)
California Hardware Co. (General, Builders' & Tools)

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Cass-Smurr-Damerel Co. (Jobbing Agents) (Stoves, Farming Tools, Hardware Specialties, etc.)
Davenport, L. M. Co. (Blacksmiths')
Harper & Reynolds Co. (General, Heavy, etc.)
Hoffman Hardware Co. (General & Heavy)
Holbrook, Merrill & Stetson (Stoves, Tinware, etc.)
Montague, W. W. & Co. (Stoves, Tinware, etc.)
Pacific Hardware & Steel Co. (All Lines in Iron & Steel)
Percival Iron Co. (Heavy Hardware & Blacksmiths' Supplies)
Union Hardware & Metal Co. (Heavy, Shelf, Oil Well, Brass, etc.)
Waterhouse & Lester Co. (Carriage & Heavy)
MARYSVILLE—White, Cooley & Cutts
MODESTO—Turner Hardware & Implement Co.
Wood, W. B. & Son
OAKLAND—Western Heavy Hardware & Iron Co. (Inc.)
PASADENA—Crown Hardware Co.
PETALUMA—Schluckebier Hardware Co.
REDDING—McCormack-Saeltzer Co.
SACRAMENTO—Baker & Hamilton (General & Heavy)
Holbrook, Merrill & Stetson (Plumbers' & Tinners' Tools, Mach'y, etc.)
Miller-Enright Co. (Stoves, Tinware, Plumbers')
Schaw, Batcher & Co. (General & Heavy)
Thomson-Diggs Co. (General)
SAN FRANCISCO—Arnold Hardware Co. (Commission Merchants & Jobbers)
Baker & Hamilton (General & Heavy)
Dunham, Carrigan & Hayden Co. (General, Heavy, Railway, Steamship, Brass Goods, etc.)
Heyman-Weil Co. (Heavy, Stoves, Tinware, etc.)
Holbrook, Merrill & Stetson (Plumbers' & Tinners', Tools, Machinery, etc.)
Judson Mfg. Co. (Heavy)
Montague, W. W. & Co. (Stoves, Tinware, etc.)
Pacific Hardware & Steel Co. (All Lines in Iron & Steel)
Pike, A. W. & Co. (Mfrs.' Agents, Hardware, Tools, etc.)
Sellers Bros. & Co. (Stoves, Tinware, etc.)
Spotswood-Helfer Co. (Carriage & Heavy)
Tay, Geo. H. Co. (Plumbers' Supplies, Stoves, Tinware, etc.)
Taylor & Spotswood Co. (Carriage, etc.)
Waterhouse & Lester Co. (Carriage, Blacksmiths' & Horseshoers', etc.)
SAN JOSE—Stock, Jno. Sons
STOCKTON—Austin Bros.

## COLORADO.

ASPEN—Tomkins, L. H. Hardware Co.
COLORADO SPRINGS—Lowell-Meservey Hardware Co.
DENVER — Dillon Hardware Co. (Heavy & Blacksmiths' & Wagonmakers' Supplies)
Moore Hardware & Iron Co. (General, Heavy, Carriage & Blacksmiths')
Rowntree, Jno. T. (Mfrs. Agent)
Tritch, Geo. Hardware Co. (Gen'l & Heavy)
LEADVILLE—Tomkins, H. H. Hardware Co.
OURAY—Arps Bros. Hardware Co.
TRINIDAD—Branson & Griswold Hardware Co.

## CONNECTICUT.

BRIDGEPORT—Chapman & Bangs Co. (Heavy & Carriage)
Hawley Hardware Co. (Builders' & Mfrs.')
Hawley, T. & Co. (General, Builders' & Tools)
Hunter & Havens (General, Heavy, Carriage & Blacksmiths')
DANBURY—Danbury Hardware Co.
Hull, F. A. & Son
DERBY—Hallock, F. Co.
HARTFORD—Blodgett & Clapp Co. (Importers) (Heavy & Carriage)
Clapp & Treat (General & Sporting)
Cone, J. H. & W. B. (Builders')
Ensworth, L. L. & Son (Heavy, Mill & Carriage)
Tracy, Robinson & Williams Co. (General, Tools, etc.)
MERIDEN—Church & Morse (General & Heavy)
NEW BRITAIN—Abbe, A. H. & W. E.
NEW HAVEN—Bronson & Townsend Co. (General)
Bushnell, N. T. Co. (General, Tools, etc.)
Mersick, C. S. & Co. (General, Heavy, Carriage, Tinners', Plumbers', Mill, etc.)
NEW LONDON—Guest & Co. (Carriage, Blacksmiths', Heavy, etc.)
Williams, G. M. Co. (Inc.) (General & Heavy)
NORWICH—Eaton, Chase Co. (General, Mill, Electrical, etc.)
Preston Bros. (General, Electrical, etc.)
WATERBURY—Hotchkiss & Templeton (General & Heavy)
WILLIMANTIC—Jordan Hardware Co. (General & Sporting)

## DELAWARE.

WILMINGTON—Capelle Hardware Co. (General & Heavy)
Delaware Hardware Co. (Builders', Coach & Heavy)

## DISTRICT OF COLUMBIA.

WASHINGTON—May, F. P. Hardware Co. (General, Heavy & Cordage)

## FLORIDA.

APPALACHICHOLA—Ruge, Herman & Sons
BRADENTOWN—Bradentown Hardware Co.
GAINESVILLE—Baird Hardware Co. (General & Heavy)
JACKSONVILLE—Balfe-Conroy Co. (General, Builders', Tools, etc.)
Bond & Bours Co. (Heavy, Stoves, Implements, etc.)
Florida Hardware Co. (Inc.) (General & Heavy, Pumps, etc.)
Hubbard, S. B. Co. (Inc.) (General & Heavy, Boilers, Plumbers', etc.)
OCALA—Marion Hardware Co. (General, Mill & Mining)
PALATKA—Griffin, Martin & Co. (General & Heavy)
PENSACOLA—Avery Hardware & Supply Co.
ST. AUGUSTINE—Hamblen, C. F. (General, Heavy, Saddlery, etc.)
SANFORD—Fernald, Geo. H. Hardware Co. (General & Heavy)
TAMPA—Knight & Wall Co. (Inc.) (Exporters, General & Heavy)
Tampa Hardware Co. (General)

## GEORGIA.

AMERICUS—Sheffield-Huntington Co. (Inc.) (General, Heavy, Saddlery, Agrl. Implts., etc.)
Harris, J. W. (Stoves, Implements, etc.)
ATHENS—Athens Hardware Co. (Inc.) (General, Heavy, Carriage, etc.)
Fleming-Dearing Hardware Co. (General)
ATLANTA—Anderson Hardware Co. (General)
Beck & Gregg Hardware Co. (General, Heavy & Carriage)
Dinkins-Davidson Hardware Co. (General, Heavy & Carriage)
King Hardware Co. (General, Tinware, etc.
Kirkpatrick Hardware Co.
Stone, F. I. & Co. (Mfrs.' Agents)
AUGUSTA—Augusta Hardware Co. (Implements, etc.)
COLUMBUS—Bush-Philips Hardware Co. (General)
CORDELE—Watt & Holmes Hardware Co.
FITZGERALD—Watt & Holmes Hardware Co. (General)
GAINESVILLE—Davidson Hardware Co.
Pruitt-Barrett Hardware Co.
HAWKINSVILLE—Whitfield Hardware Co.
McRAE—Folsom, W. B.
MACON—Dunlap Hardware Co. (General, Heavy, etc.)
Merritt Hardware Co. (General, Heavy, etc.)
ROME—Griffin Hardware Co. (Inc.) (General, Tinware, etc.)
Nixon-Smith Hardware Co. (General)
Rome Hardware Co. (Inc.) (General, Tinware, etc.)
SAVANNAH—Lovell's, Edw. Sons (General, Heavy & Carriage)
Peeples, H. H. & Sons (General)
Semmes Hardware Co. (General, Cutlery, etc.)
Weed, J. D. & Co. (General, Heavy, Railway Carriage, Terne Plate, etc.)
VALDOSTA—Briggs, W. H. Hardware Co.
Thomas-Dekle Hardware Co.
WAYCROSS—Watt Hardware Co.

## IDAHO.

BOISE—Carlson-Lusk Hardware Co. (General, Mining, etc.)
Eastman-Teller Hardware Co.
Northrop Hardware Co. (General, Heavy, etc.)
WALLACE—Coeur d'Alene Hardware Co. (General, Mining, etc.)

## ILLINOIS.

BLOOMINGTON—Holder Hardware Co.
CAIRO—Woodward Hardware Co. (General & Heavy)
CHICAGO—Allerton, Clarke Co. (Mfrs.' Agts.) 118 Lake
Bullard & Gormley Co. (General, Cutlery Tools, Tin Plate, Sheet Iron, Metals), 41 State
Chicago Iron Store (Carriage, Heavy, etc.)
Henion & Hubbell, Inc. (Pipe, Plumbers' Supplies)
Hibbard, Spencer, Bartlett & Co. (General, Household, Cutlery, Tin Plate, Woodenware, Paints, Oils, etc.), 1 State
Jones & Laughlin Steel Co. (Heavy, Railroad Supplies, Swedish Iron, etc.), 440 W Lake
McVoy, Wessling Hardware Co., 10 River
Orr & Lockett Hardware Co. (General, Butchers' Tools & Refrigerators, Kitchen Furnishings), 71 Randolph
RYERSON, JOSEPH T. & SON (Heavy, Iron & Steel Sheets, Plates, Bands, Bars, Angles, Boiler Mrfs.', Supplies, etc.), 2558 W 16th. (See adv. index, end of book)
Stewart, A. T. Hardware Co. (Mfrs.' Agents), 105 Lake
Trout Hardware Co. (General, Cutlery, Tools, Kitchen, etc.), 49 Lake
DANVILLE—Yeomans & Shedd Hardware Co. (General & Heavy)
DECATUR—Moorehouse & Wells (General, Heavy)
ELGIN—Barclay, D. F. Heavy, Stoves, etc.)
Hawthorne Hardware Co.
FREEPORT—Weiss & Co.
JOLIET—Barrett Hardware Co. (General & Heavy)
MENDOTA—Holland & Co.
PEKIN—Velde, Roelfs & Co. (Shelf, Heavy, Carriage & Tools)
PEORIA—Clark, Quien & Morse (General, Tinners' Stock, etc.)
Cummings & Emerson (Heavy, Carriage, etc.)
Walker, Isaac Hardware Co. (General, Tinners', Guns, etc.)
QUINCY—Cottrell Hardware Co. (General, Cutlery, etc.)
Tenk Hardware Co. (General, Heavy, Cutlery, etc.)
ROCK ISLAND—Rock Island Hardware Co. (General & Heavy)
SPRINGFIELD—Miller, W. B. & Son

## INDIANA.

BLUFFTON—Williamson Hardware Co.
COLUMBUS—Schwartzkopf, J. G. & Son
CRAWFORDSVILLE—Crawfordsville Hdw. Co. (General)
EVANSVILLE—Boetticher-Kellogg Co. (General, Guns, Tinware, etc.)
Clifford Hardware Co. (General)
Orr Iron Co. (Heavy, Blacksmiths', etc.)
FORT WAYNE—Fort Wayne Iron Store Co. Carriage & Wagon)
Mossman, Yarbelle & Co. (Heavy & Carriage)
Pfeiffer, Henry & Son (General)
Schlatter, C. C. & Co. (General, Builders'.
Seavey Hardware Co. Mill, etc.)
FRANKFORT—Dinwiddie & Gaddis
GOSHEN—Hawks Hardware Co. (General)
HUNTINGTON—Reichenbach & Wickenhiser
INDIANAPOLIS—Builders' Supply Corporation (General, Builders', Paints, Oils, etc.)
Holliday, W. J. & Co. (Heavy, Carriage, Shafting, Machine Shop Supplies, Wood-
Layman-Carey Co. (General) stock, etc.)
Standard Metal Co. (Tin Plate, Sheet
Tanner & Co. Iron, etc.)
Van Camp Hardware & Iron Co. (General, Heavy, Carriage & Wagon Stock, Tinners', Window Glass, Paints, etc.)
Vonnegut Hardware Co. (Builders', Cabinet, Heavy, Mill Supplies, etc.)
KOKOMO—Armstrong, Landon Co.
LAFAYETTE — Howe & Shipley (General, Stoves, Tinware, etc.)
LOGANSPORT—Ullery, S. W. & Son

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MARION—Marion Hardware Co.
MICHIGAN CITY—Staiger Hardware Co.
MUNCIE—Kimbrough Hardware Co.
NORTH VERNON — Tripp Bros. (General & Farm Machinery)
RICHMOND—Jones Hardware Co. (General, Agricultural Implements, etc.)
Pogue, Miller & Co. (General Cutlery, etc.)
SOUTH BEND—Sibley, I. A. (General)
TERRE HAUTE—Austin Hardware Co.
Smith, C. C., Sons Co.
Townley Hardware & Stove Co. (General, Tinners' Supplies, etc.)
WASHINGTON—Carnahan, M. J. Co. (General)

## IOWA.

BURLINGTON—Burlington Mfg. & Jobbing Co. (Heavy, Carriage, Plow, etc.)
Donahue, Robert Iron & Hardware Co. (Heavy, Blacksmiths', Carriage, etc.)
Drake Hardware Co. (General)
CEDAR RAPIDS—Larimer, E. K. (Heavy & Wagon Stock)
CLINTON—Armstrong, C. E. & Co. (General)
Baldwin Bros. (Heavy, Carriage, etc.)
COUNCIL BLUFFS — Empkie-Shugart-Hill Co. (General)
DAVENPORT—Lamp, Peter Iron Co. (Heavy, Wagon, Blacksmiths', etc.)
Sickles, Preston & Nutting Co. (General)
Sieg Iron Co. (Heavy)
DES MOINES—Brown Camp Hardware Co. (General, Cutlery, etc.)
Des Moines Iron Co. (Heavy, Carriage, etc)
Luthe Hardware Co. (General, Cutlery, Tinware, etc.)
DUBUQUE—Ernsdorff, John Iron Co. (Heavy, Carriage, etc.)
Tredway, A. & Sons Hardware Co. (General, Heavy, Cutlery, etc.)
FORT DODGE—Prusia Hardware Co. (General, Heavy, Tinware, etc.)
KEOKUK—Weber, A. Co. (General, Heavy, etc.)
LAKE MILLS—Styve Bros.
MARSHALLTOWN—Abbott & Son
OSKALOOSA—Huber & Kalbach Co. (General, Heavy, etc.)
OTTUMWA—Harper & McIntire Co. (General, Stoves, Cutlery, etc.)
Haw & Simmons Co. (General, Heavy, Miners', etc.)
SIOUX CITY—Dymond-Simmons Hardware Co. (Handle, General, etc.)
Knapp & Spencer Co. (General, Stoves, Ranges, Heaters, etc.)
Sioux City Iron Co. (Heavy)
WATERLOO—Cutler Hardware Co. (General, Cutlery, Tools, etc.)

## KANSAS.

ATCHISON—Blish, Mize & Silliman Hardware Co. (General)
Harwi, A. J. Hardware Co. (General & Heavy)
EMPORIA—Haynes Bros. (General)
FORT SCOTT—Penneman, A. C. & Son
HUTCHINSON—Colladay, Frank Hardware Co. (General, Tinware, etc.)
LAWRENCE—Achning, Charles (General)
LEAVENWORTH—Crancer, J. W. Hardware Co. (General Tinners, etc.)
PARSONS—Steele Hardware Co.
SALINA—Lee Hardware Co. (General & Heavy)
TOPEKA—Thompson, W. A. L. Hardware Co. (General, Heavy, Carriage, etc.)
WICHITA—Massey Iron Co. (Heavy)
Morton-Simmons Hardware Co.
Shattuck-George Iron Co. (Heavy & Blacksmiths')

## KENTUCKY.

ASHLAND—Henderson Hardware Co. (General, Mill, Mine, etc.)
CATTLETSBURG—Mims, A. Co. (General & Williamson, Ben. Hardware Co. Heavy)
HENDERSON—Blackwell, P. A. & Co. (General)
Lambert-Walker Hardware Co.
HOPKINSVILLE—Forbes Mfg. Co. (General, Tinware, etc.)
LEXINGTON—Van Deren Hardware Co. (General & Heavy)
LOUISVILLE—Belknap Hardware & Mfg. Co. (Inc.) (General, Heavy, Carriage, Saddlery, Fire Arms, Agricultural Implements, Roofing, Rope, Belting, Household, etc.)
Floyd & Bohr Co. (General, Saddlery, Tinware, etc.)
Fulton, Conway & Co. (Wagon & Carriage Makers' Tools, Supplies & Hardware, Wire Hidden, Otis Co. (Cabinet) Nails, etc.)
Robinson Bros. & Co. (General, Cutlery, Saddlery, Guns, Agr'l Impl'ts, Paints, etc.)
Stratton & Terstegge Co. (General, Stoves, Tinware, Tinners' Supplies, Woodenware, Roofing, etc.)
Todd-Donigan Iron Co. (Heavy, Wagon Makers' & Blacksmiths' Tools, Mine, Quarry & Railroad Supplies)
MAYSVILLE—Owens, Frank Hardware Co.
OWENSBORO—Guenther, W. A. & Sons (General, Heavy & Carriage, Railroad, Blacksmiths' & Miners' Supplies, etc.)
Owensboro Hardware & Iron Co. (Heavy, Railroad, etc.)
PADUCAH—Hank Bros. (General)
PAINTSVILLE—Big Sandy Hdw. Co. (Gen'l)

## LOUISIANA.

BATON ROUGE—Doherty Hardware Co. (General, Cordage, etc.)
Fuqua Hardware Co. (General)
MONROE—Monroe Hardware Co. (General)
NEW ORLEANS—Baldwin, A. & Co. (General, Heavy, Stoves, Machinery, Mill Supplies, Agr'l Impl'ts, Crockery, etc.)
Pitard's, G. Sons (General, Paints, Wallpaper, etc.)
Stauffer, Eshleman & Co. (Ltd.) (General, Heavy, Stoves, Cutlery, Fire Arms, etc.)
Woodward, Wight & Co. (Ltd.) (General, Heavy, Cutlery, Mill Supplies, Ship Chandlery, etc.)
SHREVEPORT—Lee Hardware Co. (General, Cutlery, Stoves, Glassware, etc.)
Thomas-Ogilvie Hardware Co. (Handle), General, etc.)
THIBODAUX—Planters' Hardware & Mill Supply Co. (General, Heavy, Cutlery, Mill Supplies, etc.)

## MAINE.

AUGUSTA—Brooks Hardware Co.
BANGOR—Bragg, N. H. & Sons (Heavy, Carriage, etc.)
Dickey, Wm. P. & Co. (General)
Haynes & Chalmers Co. (General, Heavy, Saddlery, etc.)
Rice & Miller (General, Explosives, etc.)
BATH—Johnson Bros. (General, Heavy, Ship Chandlery)
BRUNSWICK—Eaton Hardware Co. (General)
EASTPORT—Wadsworth, S. L. & Son
HOULTON—Watson, John Co. (General, Cutlery, Agr'l Impl'ts, etc.)
LEWISTON — Hall & Knight Hardware Co. (General, Plumbers', Pipe, etc.)
PORTLAND—Corey, E. & Co. (Heavy, Wagonmakers', Blacksmiths' & Lumbermen's Supplies)
Edwards & Walker Co. (General & Heavy)
Emery-Waterhouse Co. (General & Heavy)
ROCKLAND—Crie, H. H. & Co. (General)

## MARYLAND.

BALTIMORE—Anderson & Ireland Co. (General), 123 Light
Carlin & Fulton (General, Cutlery, Paints, etc.), 309 W German
Cole, W. H. & Sons (General, Heavy, Cutlery, Explosives, Contractors' & Electrical Supplies), 40 S Charles
Duer, Jno. & Sons (Cabinet), 36 S Charles
Duke-Peterson Hardware Co. (General, Heavy, Cutlery & Fire Arms), 113 W German
Edmunds & Galloway (Builders', Cutlery, Fire Arm, etc.), 121 W Pratt
Hardware Supply Co. (General, Cutlery, Guns, etc.), 119 S Paca
Kahl, Holt Co. (Tin Plate Metals, etc.)
Keidel, Henry & Co. (Shelf, Heavy, etc.), 405 W German
Lyon, Conklin & Co. (Inc.) (Tin Plate, Roofing Material, etc.)
Neily, Joseph W. (Marine), 1731 Thames
Parker, E. L. Nimmo Co. (Tin Plates, Sheet Iron, etc.)
Whiting, W. H. & Co. (Marine), 222 E Pratt
Wilcox Hdw. & Iron Co. (Gen'l), 406 N Gay
CUMBERLAND—Wilson & Pugh (General, Mining & Mill Supplies)
FREDERICK—Hargett, P. L. & Co.
SALISBURY—Dorman & Smyth Hardware Co.
Gunby, L. W. & Co. (General, Machinery, etc.)

## MASSACHUSETTS.

BOSTON—Austin & Doten (Sheet & Plate Steel)
Baldwin & Robbins Co. (General, Farming Tools, Cutlery, Paints), 124 High
Bigelow & Dowse Co. (General, Heavy, Builders', Machinists', Mine, Skates, Cutlery, Household, etc.), 229 Franklin
Breck Jos. & Sons Corp'n (Implements & Brown-Wales Co. (Heavy) Poultry)
Burditt & Williams Co. (General & Builders', "Marty" Mouse & Rat Traps)
Butts & Ordway Co. (Heavy & Carriage)
Chandler & Barber (Tools, Cutlery & Builders'), 124 Summer
Chandler & Farquhar (General, Machine Tools & Machinists' Supplies), 36 Federal
Chase, Parker & Co. (Heavy, Carriage, etc.), 83 Pearl
Dame, Stoddard & Co. (Cutlery, etc.)
Dana Hardware Co. (General, Cutlery, Firearms, Saddlers', Cordage, etc.) (Exporters), 28 Pearl
Eldridge & Winnek (General, Tools & Woodenware), 128 Pearl
Evans, McVoy & Co. (General, Machinists' & Carpenters' Tools, Cutlery, Cabinet & Furniture), 41 Washington
Frye, Phipps & Co. (General, Woodenware, etc.), 23 Pearl
Hardware Agency Co. (Mfrs'. Agents) (Builders'), 224 Franklin
Harvey, A. C. Co. (Heavy)
Sanderson, E. P. & Co. (Heavy)
Wilkinson, A. J. & Co. (General, Tool Steel, Tools, Sheet Brass, Rods & Wire), 180 Washington
FALL RIVER—Congdon, Carpenter & Co. (Heavy, Carriage & Blacksmiths)
Neill, Joseph O.
HOLYOKE—Russell, J. & Co. (Heavy)
FITCHBURG—Fitchburg Hardware Co. (General & Heavy, Agr'l Tools, etc.)
HAVERHILL—Hanscom Hardware Co. (General, Blacksmiths', etc.)
LOWELL—Bartlett, W. T. S. (General & Agricultural Tools)
Boutwell Bros. (Heavy, Carriage & Blacksmiths')
Thompson Hardware Co. (Builders', Cutlery, Tools)
LYNN—Collins Hardware Co. (General)
Hutchinson, W. Henry (Est. of) (General)
MIDDLEBORO—Pierce, Thos. W.
NEW BEDFORD—Butler, Wm. P. (General, Tinware, Cutlery, Tools)
NORTH ADAMS—Burlingame & Darbys (General & Heavy)
PALMER—Buck, E. A. & Co. (General, Saddlery, etc.)
PITTSFIELD—Pierson Hardware Co. (General)
SPRINGFIELD—Chapman & Brooks Co. (General)
Foot, Homer & Co. (General, Heavy, Carriage, etc.)
Lewis, Charles C. Co. (Carriage & Heavy)
TAUNTON—Pierce Hardware Co.
WORCESTER — Blake, Geo. F., Jr., & Co. (Heavy, Carriage, etc.)
Duncan & Goodell Co. (General, Cutlery, Tools, etc.)
Pratt & Inman (Heavy Iron & Steel, etc.)
Ross Bros. Co. (General Agricultural Tools, etc.)

## MICHIGAN.

ALPENA—Potter Bros.
BAY CITY—Bay City Hardware Co.
Bialy Hardware & Supply Co.
Jennison Hardware Co. (General & Heavy)
CALUMET—Carlton Hardware Co.
DETROIT—Buhl Sons Co. (Heavy, Shelf, Builders', Cutlery, Tin Plate, Metals, Iron & Steel, etc.), 103 Woodbridge, W
Delamater Hardware Co. (General, Heavy, Cutlery, Iron & Steel), 8 Woodward av
Fletcher Hardware Co. (General, Household, Cutlery, etc.), 61 Woodbridge, W
Rayl, T. B., Co. (General, House Furnishings, etc.), 112 Woodward av
Roehm & Davison (Heavy & Carriage), 93 Woodbridge av
Standart Bros. (Ltd.) (General), 155 Woodbridge
Strelinger, Chas. A. Co. (Shelf, Tools, etc.)
Weber, Henry C. & Co. (General, Household, etc.), 10 Gratiot
ESCANABA—Delta Hardware Co. (General & Heavy)
GRAND RAPIDS—Clark-Weaver Co. (Shelf, Heavy, Cutlery, Tools, etc.)
Foster, Stevens & Co. (General, Heavy, Kutsche, Wm. P. Sporting Goods)
Van Bree, Arie
HOUGHTON—Swift, L. E. Co. (General & Heavy)
JACKSON — Smith-Winchester Co. (General, Heavy, Carriage, etc.)
KALAMAZOO—Edwards & Chamberlain Hardware Co. (General, Heavy & Carriage)
MARQUETTE—Manhard, M. R. & Son (General & Heavy)

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MENOMINEE—Northern Hardware & Supply Co. (General, Heavy, Tools, etc.)
MONROE—Steiner, Wm. (General, Heavy, etc.)
PETOSKEY—Northern Hardware Co. (Gen-
Raynolds, Chas. A. (General) eral)
PORT HURON—Beard, Campbell & Co. (General, Heavy, Carriage, etc.)
Boyce Hardware Co. (General, Heavy, Tinware, etc.)
SAGINAW—Buckhout Hardware Co. (General)
Morley Bros. (General, Heavy, Saddlery, Carriage, etc.)
Saginaw Hdw. Co. (General, Heavy, etc.)
SAULT SAINTE MARIE—Soo Hdw. Co. (General & Heavy)

## MINNESOTA.

DULUTH—Kelley-How-Thompson Co. (General, Heavy, etc.)
Marshall-Wells Hardware Co. (All Lines in Steel & Iron)
MINNEAPOLIS—Derickson, G. P. & Co. (Cabinet)
Janney, Semple, Hill & Co. (General, Cutlery, Shelf & Heavy, Plumbers', Tinware, Sheet Metal, Firearms, Cordage, Rope, etc.)
Minneapolis Iron Store Co. (Heavy, Blacksmiths', Wagonmakers' & Machinists' Tools & Supplies)
Simmons Hardware Co. (General, Farming Tools, etc.)
Williams Hardware Co. (Heavy, Wagonmakers' & Blacksmiths' Supplies)
OWATONNA—Thompson, J. M. & Son Hardware Co. (General)
ST. PAUL—Decker, Adam, & Co. (General, Tinners' Supplies, Cutlery, etc.)
Farwell, Ozmun, Kirk & Co. (General, Tinners' Tools & Supplies, Butchers' Tools & Supplies, Builders', Household, Saddlery, etc.)
Hackett-Walther-Gates Hardware Co. (General, Builders', Tools, Tinners' Stock, Cutlery, Shelf, Wagon & Saddlery, etc.)
Nichols Dean & Gregg (Heavy, Iron Steel, Lumbermen's Supplies, etc.)
STILLWATER—Stillwater Hardware Co.
WINONA—Cone, R. D. Co. (General)

## MISSISSIPPI.

ABERDEEN — Lann & Carter Hardware Co. (General)
COLUMBUS—Columbus Hardware & Furniture Co.
GREENWOOD—Henderson & Baird (General & Heavy)
JACKSON—McClelland, Thos. Hardware Co.
MERIDIAN — Melton Hardware Co. (General, Cutlery, etc.)
NATCHEZ—Baker & McDowell Hardware Co. General, Agr'l Impl'ts, Crockery, etc.)
Schwartz & Stewart (General, Agr'l Impl'ts, etc.)
VICKSBURG—Hoffman, Louis Hardware Co.
Richardson-Lee & Co. (General, Tinware, etc.)
Wright Bros. Hardware Co. (General)
YAZOO CITY — Crane-Hinman Hardware Co. (General)
Yazoo Hardware Co. (General & Heavy)

## MISSOURI.

CLINTON—Haysler-Rose Co.
DEXTER—Miller, Ulen & Carter
JOPLIN—Joplin Hardware Co.
KANSAS CITY—Bonniwell Carlin Iron Co. (Carriage, Wagon, etc.)
Bunting-Stone Hardware Co. (General)
Curtin & Clark Hardware Co.
Faeth Iron Co. (Heavy, Implements, etc.)
Richards & Conover Hardware Co. (Heavy, Shelf, Tin, etc.)
Townley Metal & Hardware Co. (General, Tinware, Plumbers', etc.)
Wengert-Bishop Hardware Co.
NEOSHA—Briggs Hardware Co. (General & Illgenfritz Hardware Co. Heavy)
SEDALIA—Knight-Hampton Hardware Co. (General, Heavy, Carriage, etc.)
ST. JOSEPH—Burgess-Frazier Iron & Hardware Co. (Heavy, Carriage, etc.)
Curtin & Clark Hardware Co. (Cutlery & Specialties)
Robison Heavy Hardware Co. (Heavy & Carriage)
Wyeth Hardware & Mfg. Co. (General, Heavy & Saddlers')
ST. LOUIS—Beck & Corbitt Iron Co. (Heavy Carriage, Wagons, etc.)
Campbell Iron Co. (Heavy)
Geller, Ward & Hasner Hardware Co. (General, Tinware, etc.)
Handlan-Buck Mfg. Co. (Foundry, Machine Shop, etc.)
Norvell-Shapleigh Hardware Co. (General, Cutlery, Household, Cordage, etc.)
Rubelman-Lucas Hardware Co. (Heavy, Mfrs.' Supplies)
Schroeter Bros. Hardware Co. (General)
Simmons Hardware Co. (General, Builders', Farming Tools, Cutlery, Household, Tinners' Tools & Supplies, Metal Roofing, Paints, Oils, etc.)
Sligo Iron Store Co. (Iron & Steel, Carriage, Wagon, etc.)
Wachter, Emil, & Son Hardware Co.
Witte Hardware Co. (General, Cutlery, Household, etc.)
SEDALIN—Knight-Marshall Co. (General)
SPRINGFIELD — McGregor-Noe Hardware Co. (General, Builders', Cutlery, etc.)
Rogers & Baldwin Hardware Co. (Heavy, Carriage, etc.)
WEBB CITY—Franz Hardware Co. (General)

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
Stagg, J. P. (General, Heavy & Mining)
BILLINGS—Babcock-Fraser Hardware Co.
Billings Hardware Co. (General & Heavy)
BUTTE—Anaconda Copper Mining Co.
Davis, John E. (General)
Montana Hardware Co (General, Heavy & Mining)
GREAT FALLS—Murphy-MacClay Hardware Co. (General, Heavy, Carriage, etc.)
Northern Hardware Co.
HELENA—Helena Hardware Co. (General)
Holter, A. M. Hardware Co. (General, Heavy, Mining, etc.)
MISSOULA—Missoula Mercantile Co. (Gen'l)

## NEBRASKA.

FREMONT—Lee-Miller Hardware Co. (Gen'l)
HASTINGS—Lawson, C. K. Hardware Co.
LINCOLN—Henkle & Joyce, Hardware Co. (General)
Nebraska Hardware Co. (General, Heavy, etc.)
OMAHA — Baum Iron Co. (Heavy, Carriage, Tools, etc.)
Lee-Glass-Andreesen Hardware Co. (General)
Morton, Jas. & Son Co. (General)
Omaha Iron Store Co. (Heavy, Carriage,
Wright & Wilhelmy Co. (General) etc.)
SEWARD—Goehner, J. F. & Bro. (General)

## NEW HAMPSHIRE.

CONCORD—Thompson & Hoague Co. (General, Heavy, Carriage, etc.)
MANCHESTER — Manchester Hardware Co. (General & Heavy)
Varick, John B. Co. (General, Heavy, Carriage, etc.)

## NEVADA.

RENO—Nevada Hardware Supply Co. (Gen'l)

## NEW JERSEY.

ELIZABETH—Elizabeth Hardware Co. (Gen-
MORRISTOWN—Phillips & Day eral)
NEWARK—Banister & Pollard Co.
Crane Co. (Heavy, Factory & Mill Supplies)
Crane & Milligan (General, Plumbers' Supplies, etc.)
Gray, Robert, Jr. (General & Heavy)
Macknet & Doremus (General, Heavy, Rising & Thorne Plumbers', etc.)
Roe & Conover (General, Heavy, Plumbers', Steamfitters', Tools)
PATERSON—Cleveland, J. W. (General, Butchers' & Grocers' Supplies)
Doremus & Snyder (General & Blacksmith's & Wheelwrights' Supplies)
Mills, H. W. & Co. (General & Heavy)
Myers, Geo. A. & Co. (Builders', Mill, Factory & Plumber's Supplies)
Van Winkle, J. A. Co. (General & Heavy)
TRENTON—Katzenbach, F. S. Co.

## NEW MEXICO.

ALBUQUERQUE—McIntosh Hardware Co.
Whitney Co.
ROSWELL—Roswell Hardware Co.

## NEW YORK.

ALBANY—Albany Hardware & Iron Co. (General, Heavy, etc.)
Woodward Co. (Carriage, Wagon, Saddlery,
ALBION—Waterman, G. M. etc.)
AMSTERDAM—Larrabee, John E. (General &
BATH—Peck, Geo. W. Co. Heavy)
BINGHAMTON—Babcock, Hinds & Underwood (General & Heavy)
Crocker & Ogden (General, Heavy, Carriage, etc.)
BUFFALO—Beals & Co. (General, Heavy, Carriagemakers', Mill & Factory Supplies)
Bergman, W. Hardware Co., 102 Seneca
Buffalo Wholesale Hardware Co. (General & Heavy), 317 Washington
Hauck, Adam & Sons, 505 Main
Taylor, H. D. Co., 103 Oak
Walbridge & Co. (General & Household)
Weed & Co. (General, Heavy, Cutlery, Tools, Railway & Shop Supplies, Silverware, etc.)
COHOCTON—Peck, Geo. W. Co.
ELLENVILLE—Du Bois, L. & Co.
ELMIRA—Barker, Rose & Clinton (General & Booth, Irving D. (Heavy) Heavy)
Gridley, G. A. & Sons (General & Heavy)
FORT PLAIN—Williams & Tanner Co. (General)
GLENS FALLS—De Long's Sons
GLOVERSVILLE—Batcheller, E. S. & Co.
Durkee, E. L. & Co.
HORNELL—Peck, Frank B. Co. (General)
ITHACA—Rumsey, C. J. & Co.
Treman, King & Co. (General)
KINGSTON—Johnson, J. T. (General & Heavy)
Winne, L. S. & Co. (General, Blacksmiths', etc.)
LITTLE FALLS—Skinner & Oyston
LOCKPORT—Chadwick & Morris
MALONE — Thompson, H. D. & Co. (Heavy, Saddlery, etc.)
Wilding, C. W. Co. (General & Heavy)
MEDINA—Hanlon Bros.
NEWBURGH—Lawson Hdw. Co.
Van Cleft, Joseph, & Co.
Van Duzer, J. H. & Co. (General)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Kiley, Thos. W. & Co., 57 Grand
Ring, Chas. E., 423 Kent av

### Boroughs of Manhattan & Bronx.

NEW YORK—Alder, Benj. S. Co. (Mfrs.' Agents & Exporters), 37 Warren
Baker & Hamilton (General, Agr'l Impl'ts, etc.), 45 B'way
Barron, Jas. S. & Co. (Woodenware, Skates, etc.) (Exporters), Franklin & W B'way
Baynon, C. A. Co. (Jobbers & Commission) (General & Heavy), 99 Reade
Benjamin, Geo. P. (Purchasing Agent & Commission Buyer), 81 Fulton
Biddle Purchasing Co. (Purchasing Agents & Commission Buyers), 78 Reade
Blumberg, W. L. & Co., 97 Chambers
Boker, Hermann & Co. (Importers of Hardware, Cutlery, etc.), 101 Duane
Braunfels, Gilbert, 1940 Park av
Brombacher, A. F., & Co., 31 Fulton
Burger & Baumgard (Cutlery, etc.) (Jobbers & Exporters), 105 Chambers
Carpenter & Bayles (Hardware, Handles, etc.) (Domestic & Export), 79 White
Carter, R. K. & Co. (Purchasing Agents & Commission Buyers), 66 Reade
Cavanagh Bros. & Co. (Woodenware & House Furnishings), 143 Chambers
Curley, J. & Bro. (Importers & Jobbers of Cutlery), 318 B'way
Curtis, Geo. L. Co. (Mfrs. Agent) (Tools & Hardware Specialties), 84 Chambers
Droescher, S. R. (Importer of Razor Hones, Cutlery & Hardware Specialties)
Duryee, Pete & Co. (Jobbers & Retailers of General Hardware), 66 Vesey
Eggers, Aug. (Exporter) (Hardware, Implements, Gas & Steam Fitters' Specialties), 97 Warren
Field, Alfred & Co. (Importers & Exporters) (Cutlery, Guns, Anvils, Chains, etc.), 93 Chambers
Fox, Wm. B. & Bro. (Importers & Exporters, Purchasing Agents & Commission Buyers), 21 Warren
Frasse, Peter A. & Co. (Importers, Jobbers, etc.) (Mechanics' Tools, etc.), Sullivan & Canal
Frasse Co. (Importers, Jobbers, etc.) (Mechanics' Tools, etc.), 30 Church
Gifford, Jno. A. & Son (Exporters & Importers of Carriage Hardware & Supplies), 25 Park pl
Goldberg, Chas H. & E. S. (Importers & Exporters) (Woodenware, Cordage, etc.), 114 Reade

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**Graham, Jno. H. & Co. (Mfrs. & Mfrs.' Agents & Exporters of Hardware, Tools & Specialties), 113 Chambers**
Graef & Schmidt (Importers & Exporters of Cutlery), 107 Chambers
**HAMMACHER, SCHLEMMER &** Co., 133 4th av. (See adv. index, end of book)
**Harmon & Dixon (Mfrs.' Agents, Hardware & Specialties), 117 Chambers**
Harris, Delancey P. Hardware Co. (Mfrs.' Agent & Commission Merchant, Domestic & Export), 48 Warren
Hendricks & Class (Mfrs'. Agents) (Heavy, & Marine, Tools, Ship Chandlery, Railway & Dock Builders Supplies, etc.), 30 Church
Jacobus, Wm. H. (Mfrs'. Agent) (Builders & General, Specialties), 155 Chambers
Jennings, O. E. Co. (Mfrs'. Agents & Exporters) (Mechanics' Tools & Specialties), 42 Murray
Kleine, Wm. E. & Co. (Wagon & Carriage Materials), 120 W B'way
Larkin, J. K. & Co. (Jobbers, Nails, etc.). 290 B'way
Lockwood Co. (Builders & Shelf Hardware), 16 Reade
McCarty, J. C. & Co. (Mfrs.' Agents) (General & Blacksmiths', Machinists, & Garden Tools, etc.), 21 Murray
McCoy, Jos. F. Co. (Mfrs.' Agents, Importers & Exporters of Heavy Hardware, Cutlery, Tools, etc.), 157 Chambers
Manning, Maxwell & Moore (Railway & Machine Tools & Supplies), 85 Liberty
**Markt & Co. (Importers & Jobbers) (House Furnishing Goods & Hardware Specialties), 193 West**
Masbach Hardware Co. (General, etc.), 84 Warren
Montgomery & Co. (Tools & Supplies for Machinists, Railroads, Mills, Contractors, etc.), 105 Fulton
Morrison, Richard H., 1231 3d av.
**Murray, Robert (Screws, Shovels, Hoes, etc.), 104 Reade**
Neal & Brinker Co. (General, etc.), 18 Warren
Neal & Scott Co., 81 Warren
**Oakman Bros. (Butchers' & Table Cutlery), 36 Warren**
Oliver Bros. (Syndicate Purchasing Agents) (General & Heavy, Plumbers' Supplies, etc.), 127 Duane
Patterson Bros., 27 Park Row.
Patterson, Gottfried & Hunter (Ltd.) (Machinists', Railroad, Mill & Contractors' Tools & Supplies), 211 Centre
Patterson & Harral (Cutlery. House Furnishing, etc.), 88 White
**Peck & Mack Co. (Importers & Exporters & Mfrs.' Agents) (General), 356 B'way**
**Quinn, W. H. & Co. (Commission & Mfrs'. Agents), 103 Chambers**
**Shepard, Edw. G. (Mfrs.' Agent) (Builders & General), 107 Chambers**
Sickles-Loder Co. (Mfrs.' Agent & Jobbers) (General & Heavy), 35 Barclay
**Simmons Hardware Co. (Buying Office for St. Louis, Mo.), 173 Duane**
**SMITH & HEMENWAY CO. (Mfrs.** & Importers Hdw. Specialties), 150 Chambers. (See adv. index, end of book)
**Striffler, Edward C. (Carriage & Wagonmakers' Supplies), 674 9th av**
**Surpless, Dunn & Co. (Mfrs'. Agents & Exporters) (Heavy, Tools, Handles & Specialties), 76 Murray**
**Tiebout, W. & J. (Mfrs. & Dealers) (Brass & Galvanized, Ship Chandlery), 118 Chambers**
**Topping Bros. (Importers, Exporters, Mfrs.' Agents & Commission) (Heavy & Marine), 122 Chambers**
**Tower & Lyon Co. (Tools, Vises, Wrenches, Skates, etc.), 95 Chambers**
**Underhill, Clinch & Co. (Jobbers) (Builders'.** Tools, Shovels, Lawn Mowers, etc.), 84 White
**Voigt, Starr & Co. (Cutlery, Plated Ware, Revolvers, Tools, Vises, Clamps, etc.), 84 Chambers**
**Vom Cleff & Co. (Importers German Hardware, Cutlery & Tools), 105 Duane**
**Warner & Haviland (Mfrs.' Agents) (Tools,** Screws, Files, Wagon & Carriage), 79 Walker
Weiland, Charles (Cutlery, Mechanics' Tools, etc.), 149 Chambers
White, Van Glahn & Co. (General. Builders. Tools, etc.), 37 Barclay
Wiebusch & Hilger (Ltd.) (Importers & Mfrs.' Agents, Hardware Specialties, Anvils, Chains, Cutlery, etc.), 106 Lafayette
Witte, Francis T. Hardware Co. (Importers, Exporters & Mfrs.' Agents) (Hardware, Cutlery, Tools, Refrigerators, etc.), 106 Chambers
Wood, H. P. & Son (Trunk). 20 Reade

**(End of New York City)**

NIAGARA FALLS—Elderfield-Hartshorn Hardware Co.
Oliver, F. W. Co.
OGDENSBURG—Hackett, Patrick Hardware Co. (General & Iron & Steel)
ONEIDA—Eells & Mott Co. (Carriage Hdw. & Iron & Steel)
OSWEGO—Oswego Hardware Co. (General, Carriage & Heavy)
PATCHOGUE—Bailey, E. & Sons
PENN YAN—Hollowell & Wise
Peck, Geo. W. & Co
PLATTSBURGH—Marshall, Wood & Riley Co. (General & Builders)
Myers, M. P. & Co. (General)
ROCHESTER—Bennett & Mason Co. (Stoves, Furnaces & Household Specialties)
**Ernst, Louis & Sons (General, Builders, Tools, etc.)**
**Mathews & Boucher (General, Tools, Tinners', etc.)**
**Roby, Sidney B. Co. (Heavy, Iron & Steel, Coach & Bicycle Supplies)**
**Weaver, Palmer & Richmond (General, Shelf, Agr'l Impl'ts, etc.)**
ROME—Wardwell Hdw. Co. (General, Heavy, Carriage)
SAUGERTIES—Lamb, Daniel & Son
SCHENECTADY—Witbeck, Clark (General & Heavy)
SYRACUSE—Burhans & Black Co. (General, Heavy, Fishing Tackle, etc.)
Clancy Hardware Co. (Heavy, Carriage, Blacksmiths' Paints, etc.)
Drennen Hardware Co.
Hessler, H. E. Co. (General & Household)
Syracuse Hardware & Iron Co. (General, Heavy, Household, Paints, etc.)
TROY—Bonesteel, A. E. & Co. (General)
Green's, Hannibal Son & Co. (Heavy, etc.), (Importers Norway & Swedish Iron)
McCormick & Dunn (Heavy, Shelf, Builders', Blacksmiths' & Horseshoers' Supplies)
Warren, J. M. & Co. (Heavy, Shelf, Tinners', Metals, Cordage, etc.)
UTICA—Foster, David S. Sons & Co. (General, Heavy & Carriage)
Parry, Wm. B. & Son (General, Household & Specialties)
Roberts Hardware Co. (General, Heavy, Tinware, etc.)
Wright-Dana Hdw. Co. (Gen'l, Heavy, etc.)
WATERTOWN—Conde, W. W. Hardware Co. (General, Heavy, Carriage)
WEEDSPORT—Burrett, O. W. & Bro.

## NORTH CAROLINA.

ASHEVILLE—Asheville Hardware Co.
CHARLOTTE—Charlotte Hardware Co. (General & Heavy)
Southern Hardware Co. (General)
Weddington Hdw. Co. (General & Heavy)
ELIZABETH CITY—Jones, D. M. Co. (General & Heavy)
GREENSBORO—Odell Hardware Co. (General, Carriage, etc.)
HICKORY—Martin, J. A. (General)
MONROE—Heath Hardware Co. (General, etc.)
RALEIGH—Briggs, Thos. H. & Sons (General, Heavy, etc.)
Hart-Ward Hardware Co. (General & Heavy)
WADESBORO—Blalock Hardware Co. (General)
WASHINGTON—Fulford, N. S. Hardware Co. (General, Heavy, Carriage, etc.)
McKeel-Richardson Hardware Co.
WILMINGTON—Jacobi, N. Hardware Co. (General, Heavy, etc.)
Murchison, J. W. & Co. (General, Tin, etc.)
Springer, W. E. & Co. (General, Heavy, Carriage, etc.)
WINSTON SALEM—Brown, Rogers & Co. (General, Agr'l Impl'ts, etc.)
Forsyth Hardware Co.
Norfleet Hardware Co.
Wall-Huske Co.

## NORTH DAKOTA.

FARGO—Hall-Robertson Hardware Co. (General, Cutlery, etc.)

## OHIO.

AKRON—Hardware & Supply Co. (General)
CANTON—Canton Hardware Co. (General, Factory Supplies, Glass, Paints, etc.)
CHILLICOTHE—Spetnagel Hardware Co. (General & Heavy)
CINCINNATI—Boebinger Hardware Co. (General, Cutlery, Tools, Patternmakers' Supplies, etc.), 315 E Pearl
Carpenter, D. L. & Co. (Carriage & Wagonmakers' Hardware & Supplies), 652 Main
Kruse Hardware Co. (General, Cutlery, etc.)
**Kruse & Bahlmann Hardware Co. (General, Builders', etc.), 410 Pioneer**
**Kuhlmann Hardware Co. (General, Builders', Cabinet, Tools, etc.), 1320 Main**
**Morris, E. K. & Co. (Heavy), 317 W 2d**
Pickering Hdw. Co. (General), 5th c Main
Schulte, G. B. & Sons Co. (Wagonmakers' & Blacksmiths' Hardware & Supplies), 716 Main
CLEVELAND—Bingham, W. Co. (Heavy, Shelf, Cutlery, Firearms, Mfrs.', Mining, Railway Supplies, etc.), 1433 W 9th
Cray Bros. (Carriage), 1111 W 11th, N. W.
Giessen, D. E. Co. (Cabinet), 215 Prospect
Lake Erie Nail & Supply Co. av, S. E.
Lockwood-Luetkemeyer-Henry Co. (General Heavy Lines, Mfrs. & Mill Supplies, etc.)
Morton-Petitt Co., 3951 St. Clair av
Worthinton, Geo. Co. (Heavy, Metals, Tinners', Carriage & Saddlery, etc.)
COLUMBUS—Columbus Hardware Co. (Gen'l)
Griswold, Sohl Co. (Carriage & Heavy)
Mithoff, H. & Co. (Heavy, Tin Plate, Tinners' Stock, Tools, etc.)
Smith Bros. Hardware Co. (General, Cutlery, Paints, etc.)
COSHOCTON—Gray Hardware Co.
Ricketts, B. W.
DAYTON—Dayton Iron Store Co. (Iron, Steel, Blacksmiths', etc.)
Gebhart, S. T. & G. A. Co. (General, Carriagemakers' & Blacksmiths' Supplies)
Kramer, Viot & Co. (General, Shelf & Builders')
Tischer, G. W. (Gen'l, Cutlery, Nails, etc.)
Trimbach, Geo.
FREMONT—Swint, Reineck & Co. (General & Heavy)
GALLIPOLIS—Kerr, J. M. & Co.
IRONTON—Goldcamp Bros. & Co.
Hutsinpillar-Sheridan Co. (General)
LANCASTER — Winter, Frank Hardware Co. (General, Heavy & Carriage)
LIMA—Cover Hardware Co.
Jones, Thos. R. & Son
Lima Hardware Co.
MANSFIELD—Bare Bros.-Martin Hardware Co.
Wagner Hardware Co. (General & Heavy)
MARIETTA—Seyler Hardware Co.
NEWARK—Crane-Bliss Hardware Co.
Jones, Daniel L. & Co.
PORTSMOUTH—Hibbs Hdw. Co. (General)
SANDUSKY—Donahue Hardware Co.
SPRINGFIELD—Haucke, Geo. Co.
Lion Hardware Co.
Springfield Hardware Co. (General)
Vulcan Hardware Co.
TIFFIN—Creeger, L. D.
Crobaugh & Dahm Hardware Co. (General & Carriage)
TOLEDO — Bostwick-Braun Co. (General & Heavy)
Heavy Hardware Co. (Carriage, etc.)
Schunk-Marquardt Co. (General & Paints)
Standart-Simmons Hardware Co.
Star Hardware Co. (Builders', Cabinet, Tools' Cutlery, Glass, etc.)
Stollberg Hardware Co. (General, Tools, Cutlery, Glass, Paints, etc.)
TROY—Schaible & Smith
URBANA—Cooper, Otway (General, Saddlery,
WARREN—Park Hardware Co. etc.)
Warren Hardware Co.
WASHINGTON C. H.—Ballard, C. F. (General
Ford Hardware Co. & Heavy)
YOUNGSTOWN—Stambaugh, Thompson Co. (General, Heavy, Plumbers', etc.)
Wilkins-Leonard Hardware Co. (General, Household, Mill Supplies, etc.)
ZANESVILLE—Clossman Hardware Co.
Young Hardware Co. (General)

## OKLAHOMA.

CHICKASHA—Gilkie-Jarboe Hdwe. Co.
CLINTON—Bonebrake-Lacy Hardware Co.
EL RENO—Bonebrake Hardware & Implement
ENID—Gensman Bros. Co.
GUTHRIE—Hirschl, E. L. (General & Heavy)
KINGFISHER—Hockaday, E. & Co.
MUSKOGEE—Turner Hardware Co. (General & Heavy)
OKLAHOMA — Oklahoma City Hardware Co. (General, Heavy, etc.)
Pettee, W. J. & Co. (General, Agr'l Impl'ts, etc.)
SHAWNEE—Wade & Branch Hardware Co.

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## OREGON.

PORTLAND—Dayton Hardware Co. (General, Electrical, Upholsterers', etc.)
Failing, McCalman Co. (General & Metals)
Haseltine, J. E. & Co. (Carriage, Heavy, etc.)
Hexter, May & Co. (General, Tinware, etc.)
Honeyman Hardware Co. (General, Heavy, etc.)
Marshall-Wells Hardware Co. (General, Heavy, etc.)
Robertson Hardware & Steel Co. (Blacksmiths', Wagonmakers', etc.)

## PENNSYLVANIA.

ALLENTOWN—Berger, Glose Co.
Ebbecke Hardware Co.
Grammes, L. F. & Sons (Cabinet, Desk, Machinery, etc.)
Hersh, F. Hardware Co. (General, Heavy, Builders', Carriage, etc.)
Schelly, C. Y. & Bro. (General, Builders', etc.)
Young, M. S. & Co. (General, Builders', Blacksmiths', etc.)
ALTOONA—Goodfellow's, W. H. Sons (General, Agr'l Impl''ts, etc.)
Standard Supply & Equipment Co. (Tools, etc.)
ASHLAND—Buck, P. E. & Sons (General, Heavy, Carriage, etc.)
BELLEFONTE — Potter-Hoy Hardware Co. (General, Heavy, Carriage, etc.)
BRADFORD—Emery Hardware Co. (General, Heavy, etc.)
BUTLER—Campbell, J. G. & W.
CHICORA—Hays, E. F. & Sons
Hoch Bros.
CLARION—Magee, Jno. A. & Son
CONNELLSVILLE—Frisbee Hardware Co.
CORRY—Barlow Hardware Co. (General, Heavy, Blacksmiths', etc.)
DANVILLE—Welliver Hardware Co. (General, Heavy, etc.)
DUPOIS—Hibner-Hoover Hardware Co. (General, Builders', etc.)
Prothero, Bailey & Goodwin
EASTON—Miller, T. T. Hardware Co. (General, Heavy, etc.)
EMLENTON—Mitchell, H. B. & Co.
ERIE—Erie Hardware Co.
Mehl & Sapper
Schneider Hardware Co.
GREENVILLE—Packard Hardware Co. (General, Heavy, etc.)
HANOVER—Shirk, Samuel & Sons (General, Heavy, Carriage, etc.)
Tanger, J. C. Co.
HARRISBURG—Gilbert, H. & Son (General & Heavy)
Strayer, O. F. (General & Heavy)
HAZLETON—Barber, J. F. & Co. (Tin, Woodenware, Stoves, etc.)
Bright, J. C. & Co. (General, etc.)
Hazleton Machinery & Supply Co. (Heavy, Mine & Mill)
HUNTINGDON—Miller, C. H. Hardware Co. (General, Pipe, etc.)
INDIANA—Stewart, Jas. M. & Co.
JOHNSTOWN—Swank Hardware Co. (General, Builders', Carriage, etc.)
KINGSTON—Roat, A. J. (General, Heavy, Carriage, etc.)
LANCASTER—Herr & Co. (General)
Reilly Bros & Raub (General)
Steinman Hardware Co. (General, Heavy, Carriage, etc.)
LEBANON—Krause, Geo. Hardware Co. (General, Heavy, etc.)
LEHIGHTON—Sendel & Rouse
LEWISBURG—Driesbach's, C. Sons (General, Saddlery, etc.)
McKEESPORT—Hartman Hardware Co.
MAHAFFEY—Wrigley Co. (Inc.)
MAHANOY CITY—Heiser, H. J. & Co.
MECHANICSBURG—Hauck Bros.
MEYERSDALE—Cover, Peter J. & Son
Shipley Hardware Co.
MIFFLIN—Guss, E. M., & Sons
MIFFLINBURG—Snodgrass, S. W. (General, Carriage, etc.)
MILTON—Buoy, Jno. V. (General)
MOUNT CARMEL—Beddall & Wardrop
MOUNT PLEASANT—Stevenson, J. A. & Co.
NEW CASTLE—Smith-Hutton-Kirk Co.
PHILADELPHIA—Allen, W. H. & G. W. (General, Builders', Cutlery, etc.), 113 Market
Berger Bros. (Heavy)
Biddle Hardware Co. (General, Tools, Specialties, etc.) 513 Commerce
Fernley, T. Jas. (General), 505 Commerce
Field's, Chas. J. Sons, General, Cutlery, etc.) 633 Market
Ghriskey's, Chas. M. Sons (General, Mechanics' Tools & Specialties), 508 Commerce
Hessenbruch, Herman (Importers & Jobbers German Hardware), S N 5th
Matlack, E. C. & Co. (Carriage), 122 N 3d
Matlack, Kern & Co. (General), 203 Market
Newlin-Knight Hardware Co. (General, Cutlery, Railway Supplies, etc.), 411 Commerce
Noblit Bros. & Co. (Cabinet), 222 S 2d
Petry, N. A. (Mfrs'. Agent), 422 Commerce
Rogers & Miller (General), 135 Market
Seltzer-Klahr Hardware Co. (Cutlery, Guns & Ammunition), 535 Market
Shannon, J. B. & Sons, 816 Chestnut
Shannon, J. J. & Co., 1744 Market
Shields & Bro. (General, Heavy, etc.), 521 Market
Standard Supply & Equipment Co., 1710 Market
Supplee Hardware Co. (Shelf, Heavy, Cutlery, Lawn Mowers, etc.), 503 Market
Vance, Jas. M. & Co. (General, Builders', Cutlery, etc.), 211 Market
PITTSBURG—Bindley Hardware Co. (General, Heavy, Cutlery, Household, Tools, Paints, Glass, etc.), 429 7th av
Demmler Bros. Co. (Enameled Ware, Household, etc.), 1st av & Rose
Lautner Hardware Co. (General, etc.), North Side
Lindsay, Jas. C. Hardware Co. (General, Cutlery, Firearms, etc.), 719 Liberty av
Logan-Gregg Hardware Co.
Steiner & Voegtley
Wolff-Lane Hardware Co. (General), 105 Wood
Woodwell, Jos., Co. (General, Builders' & Mill Supplies), 7012 Penn av
POTTSVILLE—Bright & Co. (General, Mining, etc.
Thompson, L. C. (General, Heavy, Carriage, etc.)
READING—Bard Hardware Co. (General, Heavy, Carriage, etc.)
Bright & Co. (General, etc.)
Hoff Bros. (General, Firearms, etc.)
Obold, J. H. & Co. (General)
Stitcher Hardware Co. (Ltd.) (General, Heavy, Carriage, etc.
SCOTTDALE—Loucka Hardware Co.
SCRANTON—Bittenbender & Co. (Heavy & Carriage)
Doyle, Jas. B. & Co.
Foote & Becker (General)
Gunster Bros.
Leonard, Thos. F. Co.
SHAMOKIN—Hack Sanner Hardware Co.
SHARON—Fruit-Ohl Co. (Gen'l, Heavy, etc.)
SOMERSET—Holderbaum, James B.
TAMAQUA—Seligman & Co. (General)
TITUSVILLE—Kernochan & Co.
United Hardware & Supply Co.
UNIONTOWN—Huston, Jno. L.
WARREN—Pickett Hardware Co.
WILKES-BARRE—Baab, Frank
Eastern Penna. Supply Co. (General Heavy, etc.)
Morgan's C. Sons (General, Tools, etc.)
Phelps-Lewis-Bennett Co. (General, Heavy, etc.)
White Hardware Co.
Wilkes-Barre Hardware Co. (General, Tinware, etc.)
WILLIAMSPORT—Kline & Co.
Williamsport Hardware & Stove Co.
YORK—Frey & Thomas (General)
McClellan & Gotwalt Co. (General)
Small, P. A. & S. Co. (General, Blacksmiths', etc.)

## RHODE ISLAND.

PAWTUCKET—Duffy Bros. Hardware Co.
PROVIDENCE—Ballou, Johnson & Nichols Co. (Mfrs. Agts. Kitchen Hardware)
Barker, Chadsey & Co. (General)
Belcher & Loomis Hardware Co. (General, Manufacturing Jewelers' & Electrical Supplies, etc.)
Congdon, Welcome & Sons (General, Builders', Cordage, etc.)
Union Hardware & Electrical Supply Co. (General, Electrical, Jewelers' Supplies, Paints, etc.)
WOONSOCKET—Darling, Chas. H.

## SOUTH CAROLINA.

ANDERSON—Anderson Hardware Co.
Sullivan Hardware Co. (General & Heavy)
CHARLESTON—Franke, C. D., & Co. (Car-
Lazarus, M. H. Co. riage & Wagon)
Marshall, Westcoat Hardware Co. (Gen-
Thompson-Miller Hardware Co. eral)
CHESTER—De Haven-Dawson Co. (Inc.)
COLUMBIA—Lorick, L. A. & Bro. (General, Heavy, etc.)
DARLINGTON—Welling & Bennoit
GREENVILLE—Markley Hardware & Mfg. Co. (General, Carriage, etc.)
Wilkins, Poe & Co. (General & Heavy)
Williams, Jas. T.
SPARTANSBURG—Ezell, S. B.
Montgomery & Crawford (General)

## SOUTH DAKOTA.

ABERDEEN—Jackson Hardware Co. (General & Heavy)
BEAUFORT—Christensen, N. & Sons
RAPID CITY—Dubamel-Ackerman Co. (General, Carriage, Wagon, etc.)
Sweeney Hardware Co. (General)
SIOUX FALLS—Larson Hardware Co. (General & Heavy)

## TENNESSEE.

BRISTOL — Mitchell-Powers Hardware Co. (General & Heavy)
Virginia-Tennessee Hardware Co. (General & Heavy)
CHATTANOOGA—Chattanooga Hardware Co. (General)
Fritts, Tom Hardware Co. (General, Plumbers', etc.)
Green, W. T. (General, Cutlery, etc.)
Magill Hardware Co. (General & Heavy)
Vance, John C. (General)
Woodworth, F. H. & Co. (General)
CLARKSVILLE—Elder-Conroy Hardware Co.
CLINTON—Clinton Hardware Co.
COKEVILLE—Whiston & Barnes Hardware Co. (General)
JACKSON—McGee-Ross Hardware Co.
JOHNSON CITY—Summers-Parrott Hardware Co. (General)
KNOXVILLE—Luttrell, S. B. & Co. (General, Heavy, etc.)
McClung, C. M. & Co. (General, Heavy, Tools, etc.)
Woodruff Hardware Co. (Heavy, Shelf, etc.)
MEMPHIS—Barnes & Miller Hardware Co. (General)
Benedict, Warren & Davidson Co. (General, Tinware, etc.)
Craig, R. G. & Co. (General)
Harris Iron & Supply Co. (Carriage, etc.)
Livermore Iron Store Co. (Heavy)
Orgill Bros. & Co. (General, Agr'l Impl'ts, Stewart Bros. Hardware Co. etc.)
MORRISTOWN—Baylor, C. E. & Co. (General Grant-Hasson Hardware Co. & Heavy)
NASHVILLE—Buford Bros. (Heavy, Carriage, Craig & Shoffner Hardware Co. etc.)
Fall, J. H. & Co. (General, Heavy, Builders', etc.)
Gray & Dudley Hardware Co. (General, Heavy, etc.)
Hitchcock, L. H. & Son (General, Agr'l Impl'ts, etc.)
Keith, Simmons & Co. (General, Heavy, etc.)
Lipscomb, H. G. & Co. (Shelf, Wagon, Builders', etc.)
McWhorter, Hutton Co. (General)

## TEXAS.

ABILENE—Hughes, Edw. S. & Co. (General & Heavy)
AMARILLO — Morrow-Thomas Hardware Co. (General)
AUSTIN—Richardson, W. H. & Co.
Tipps, Walter A. (General, Heavy, Carriage, Saddlery, etc.)
Webb, Taylor & Perry (General, Carriage, etc.)
BEAUMONT—Norvell-Wilder Hardware Co.
Wilson, E. L. Hardware Co. (General, Heavy, etc.)
BROWNWOOD—Jackson-Hughes Co. (General, Saddlery, etc.)
Weakley-Clingman Hardware Co. (General)
CORSICANA—Tatum, W. M. Hardware Co. (General)
DALLAS—Huey & Philip Hardware Co. (General, Tinners', etc.)
Moroney Hardware Co. (General)
Thornhill, H. W. Co. (General)
DENISON—Hall-Leeper Hardware Co.
EL PASO—Krakauer, Zork & Moye (General, Firearms, etc.)
FORT WORTH—Fort Worth Heavy Hardware Co.
Henry, Wm. & Co. (General & Heavy)
Nash Hardware Co. (General, Heavy, etc.)
GAINESVILLE—Stevens-Kennerly & Spragins Co.
GALVESTON—Blum Hardware Co. (General)

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HALLETTSVILLE—Hallettsville Hdw. Co. (General)
HENDERSON—Burnett-Lacy Hardware Co.
HOUSTON—Adou-Blaine Hardware Co.
Bering-Cortes Hardware Co. (General)
Heitman, F. W. Co. (Heavy)
Meyers, Jos. F. Co. (Heavy & Carriage)
Peden Iron & Steel Co. (Heavy, etc.)
JEFFERSON—Meyer, Eugene
Torrans Mfg. Co.
LAREDO—Deutz Bros. (General & Heavy)
PARIS—Bettes, H. S. Hardware Co. (General)
ROCKDALE—Henne & Meyer Co.
SAN ANTONIO — Basse, Wm. Hardware Co. (Carriage, Wagon & Heavy)
Heusinger Hardware Co. (Heavy, Builders', Cabinet, Tools, etc.)
San Antonio Hardware Co.
Schultz Stove & Hardware Co.
Tips Hardware Co. (General)
SHERMAN—Roberts, Sanford & Taylor Co.
Walsh Hardware Co. (General)
TEXARKANA—(See Arkansas)
TYLER—Adams, Jno. R. Hardware Co. (General, Heavy, etc.)
WACO—McLendon Hardware Co. (General), Heavy, etc.)
Padgitt, Tom Co. (Saddlery, etc.)
Straus, Ed. (General, Cutlery, etc.)
WEATHERFORD—Bell, R. E. Hardware Co. (General)
Lowe Carter Hardware Co. (General, etc.)

## UTAH.

OGDEN—Lowe, Geo. A. Co. (Heavy)
SALT LAKE CITY—Salt Lake Hardware Co. (General, Heavy, etc.)
Strevell-Patterson Hardware Co. (General, Heavy, etc.)
Zion's Co-operative Mercantile Institution (General, Heavy, etc.)

## VERMONT.

BURLINGTON—Hagar Hardware & Paint Co.
Manson Hardware Co.
Strong Hardware Co. (Heavy, Builders', Carriage, etc.)
Vermont Hardware Co. (General & Saddlery)
MONTPELIER—Barrows & Peck
Peck Bros.
NEWPORT—Root, Hy. S. & Son
True & Blanchard Co.
RUTLAND—Landon, W. C. & Co.

## VIRGINIA.

ALEXANDRIA—Carlin-Hulfish Co.
BRISTOL—(See Tennessee)
CHARLOTTESVILLE — Charlottesville Hardware Co. (General, Cutlery, Heavy, etc.)
CLIFTON FORGE—Smith, W. K. Hardware Co. (General, Builders', Tools, etc.)
DANVILLE—Hodnett, Vass, Watson Co.
Piedmont Hardware Co. (General, etc.)
HAMPTON—Booker, H. R. & Co.
HARRISONBURG—Burke, John P.
Wilton Hardware Co.
LYNCHBURG—Ainslie & Martin Co. (Gen'l)
Bailey, Spencer Hardware Co. (Heavy, Shelf, Firearms, etc.)
Barker-Jennings Hardware Co. (Heavy, Shelf, Firearms, etc.)
Gannaway, Jno. E. & Co. (General)
Perrow-Evans Hardware Co. (General)
MANCHESTER—Vaden, Bernard P.
NORFOLK—Clark, Frank T. Co. (General)
De Haven-Dawson Co. (Inc.)
Watters & Martin (General, Heavy, etc.)
White Hardware Co. (General)
Womble's, J. G. Sons (General)
NORTON—Norton Hardware Co. (General)
PETERSBURG—Leonard, Chas. Hardware Co. (General)
Stockdell-Myers Hardware Co. (Heavy)
Stratton-Bragg Co. (General)
PORTSMOUTH—Neville, Jos. H. (General), Heavy, Ship Chandlery)
Stratton & Bragg Co. (General)
PORTSMOUTH — Neville & Grubb (General, Heavy, Ship Chandlery)
RICHMOND—Baldwin & Brown
Clarke, A. B. & Son Hardware Co. (General, Heavy, Carriage, etc.)
Donnan, W. S. Hardware Co. (Heavy)
McGraw, James (General, Machinists' Supplies)
Richmond Hardware Co. (General, Tinware, etc.)
Virginia-Carolina Hardware Co. (General, Tinware, etc.)
Watkins-Cottrell Hardware Co. (General, Heavy, Saddlery, etc.)
ROANOKE — Nelson Hardware Co. (General, Miners' Supplies, etc.)
Roanoke Hardware Co. (General, etc.)
SOUTH BOSTON—Penick, R. A. & Son (General)
STAUNTON—Bowman, C. P. & Bro. (General, Saddlery, etc.)
Worthington Hardware Co. (General, Heavy, Carriage, Saddlery, etc.)
SUFFOLK—Folk, E. L., Co.
Norfleet & Bro.
TAZEWELL—Greever, J. A.
Peery & St. Clair

## WASHINGTON.

ABERDEEN—Hicks, S. B. & Sons Co. (Heavy, etc.)
BELLINGHAM—Morse Hardware Co. (General)
Northwest Hardware Co. (General & Heavy)
EVERETT—Agnew Hardware Co.
SEATTLE—Gray Bros. (Carriage, Wagon, etc.)
Hicks, S. B. & Sons Co. (Heavy, etc.)
Pacific Hardware & S. Co. (Branch San Francisco)
Schwabacher Hardware Co. (Heavy, Shelf, Ship Chandlery, etc.)
Seattle Hardware Co. (Heavy, Shelf, Tools, Western Hardware & Metal Co. etc.)
Whiton Hardware Co. (General, Cutlery, Tools, etc.)
SPOKANE—Holley-Mason Hardware Co. (Shelf, Heavy, Plumbers', etc.)
Jensen-King-Byrd Co. (General)
Spokane Hardware Co. (General)
TACOMA—Hunt & Mottet Co. (General & Heavy)
Mohr Hardware Co.
Palace Hardware Co.
Washington Hardware Co.
WALLA WALLA—Drumheller Co.

## WEST VIRGINIA.

BLUEFIELD—Bluefield Hardware Co. (General, Tinware, etc.)
CHARLESTON—Burlew, N. S. (General)
Charleston Hardware Co. (General)
Goshorn Hardware Co. (General)
Loewenstein & Sons (General)
CLARKSBURG—Williams & Davidson Co. (General, Heavy, Carriage)
FAIRMONT—Amos, Geo. E. & Co.
Jacob-Hutchinson Hardware Co. (General,
HINTON—Hinton Hardware Co.
HUNTINGTON — Emmons, Hawkins Hardware Co. (General, Natural Gas Fixtures, etc.)
Foster-Mead Hardware Co. (General, etc.)
Huntington Hardware Co.
Miller Supply Co. (Heavy, Mine & Mill)
KEYSER—Siever Hardware Co. (General)
PARKERSBURG—Chancellor Hardware Co.
Neal, R. L. & Co. (General)
Niswander, G. W. & Co.
Smith, W. H. Hardware Co. (General)
RAVENSWOOD — McIntosh, John A. & Son (General & Heavy)
Moore, C. P. (General)
SUTTON—Lee, W. H.
WHEELING—Greer & Laing (General & Heavy)
Hiener Hardware Co.
Miller & Stein (Heavy, Carriage, etc.)
Ott-Heiskell Hardware Co. (General, Cutlery, etc.)
Snyder's, Jacob Sons (Carriage, Wagon, Blacksmith's, etc.)

## WISCONSIN.

APPLETON—Galpin's, Alfred Sons
Tesch. Wm.
ASHLAND—Garnich, Emil & Sons
BURLINGTON—Wagner, C. B., Hardware Co.
EAU CLAIRE—Brooks, S. C. (Est. of)
Foss-Armstrong Hardware Co. (General, Heavy, Tools, Builders', etc.)
FOND DU LAC—Hughes, Jno.
Wegner, J. F. & Co.
GREEN BAY—Kimball, Chas. P., Jr.
Morley-Murphy Hardware Co. (General, Cutlery, etc.)
HUDSON—Foss-Armstrong Hardware Co. (General)
JANESVILLE—Bicknell Mfg. & Supply Co.
KENOSHA—Dewey, C. A.
LA CROSSE—Kroner, Fred, Hardware Co. (General, Wagon, Tools, etc.)
Tausche, Vincent Hardware Co. (General, Blacksmiths', etc.)
MADISON—Kroncke, A. G., Hardware Co.
Sumner & Morris
MANITOWOC—Teitgen, Emil
Worel, Zeman & Stangel Co. (General, Heavy, Carriage, etc.)
MARSHFIELD—Kliner, Lang & Scharmann Co.
MILWAUKEE—Frankfurth, Wm. Hardware Co. (General, Heavy, Cutlery, Firearms, etc.)
Gross, Philip Hardware Co., 126 Grand av
Hilgendorf, Kolloge & Co., 303 3d
Paulus, Peter Hardware Co.
Pritzlaff, John Hardware So. (General, Heavy, Tin Plate, Cutlery, etc.)
Shadbolt & Boyd Iron Co. (Wagon & Carriage)
Suelflohn & Seefeld (Heavy, Carriage, etc.)
NEENAH—Krueger, Wm. & Co.
OSHKOSH—Leach, Frank Hardware Co.
RACINE—Hoernel Hardware Co.
Murphy, James
SHEBOYGAN—Geele, Frank Hardware Co.
SUPERIOR—Superior Hardware Co.
WATERTOWN—Kusel, D. & F. Co.
WAUSAU—Bauman Hardware Co.

## WYOMING.

CHEYENNE—Arp & Hammond Hardware Co.
Roedel, Frank A.
EVANSTON—Beeman & Cashin Mercantile Co.
LANDER—Rhein, W. H. & Co.
LARAMIE—Holliday, W. H. Co.
SHERIDAN—Diefenderfer & Dinwiddie

## 4532— Harmonicas

Hohner, M. ("Hohner"), 475 B'way, New York

## 4533—Harness (Coal Mine, Etc.)

Beagle Hame Works, Freeland, Pa.
Kugler, Clarence B., Jr., & Co., Land Title Bldg., Phila., Pa.
Norvell-Shapleigh Hardware Co., St. Louis, Mo.
Olewine, Wm. & Son, Hazleton, Pa.
Pittsburg Harness Supply Co., Pittsburg, Pa.
Stratton, J. P. & Son, Sullivan, Ind.
Strecker Bros. Co., Marietta, O.

## 4534— Harness (Contractors')

Columbus Carriage & Harness Co., Columbus, O.
Sickles, J. B. Saddlery Co. (Harness & Supplies), St. Louis, Mo.

## 4535— Harness Mfrs.

La Porte Harness Co., La Porte, Ind.
Ulrich Mfg. Co., Kokomo, Ind.
Votruba Harness Co., Traverse City, Mich.

## 4536— Harness Menders

Buffalo Specialty Co. ("Rapid"), Buffalo, N.Y.
Star Heel Plate Co. ("Royal"), Newark, N. J.

## 4537— Harpoons

Falls Mfg. Co. ("Improved "C. V."), 360 Fremont, San Francisco, Cal.
Wilcox, Crittenden & Co., Middletown, Conn.

## Harps (Trolley)

(See Trolley Line Materials)

## 4538— Harrows (Boss)

Anderson Co., St. Paul, Minn.
Emerson-Brantingham Co., Rockford, Ill.
Fuller & Johnson Mfg. Co., Madison, Wis.
Hartford Plow Co., Hartford, Wis.
Hayes Pump & Planter Co., Galva, Ill.
Keller Mfg. Co., Sauk Center, Minn.
La Crosse Plow Co., La Crosse, Wis.
Minneapolis Plow Works, Minneapolis, Minn.
Rock Island Plow Co., Rock Island, Ill.
Rowell, I. B. Co., Menomonee Falls, Wis.

## 4539— Harrows (Disc)

Adriance, Platt & Co. ("New York"), Poughkeepsie, N. Y.
American Harrow Co., Detroit, Mich.
American Plow Co. ("American"), Madison, Wis.
American Seeding Machine Co. (Inc.) (Gang & on Wheels, also Truck), Springfield, O.
Ames Plow Co., Quincy Hall, Boston, Mass.
Avery, B. F. & Sons, Louisville, Ky.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Benicia Iron Works, Benicia, Cal.
Bristol & Gale Co., 158 W North Water, Chicago, Ill.
Brown Mfg. Co., Zanesville, O.
Bryan Plow Co., Bryan, O.
Bucher & Gibbs Plow Co. (Also Cut Out Disc & Double Disc), Canton, O.
Case, J. I., Plow Works ("Racine"), Racine, Wis.

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Cutaway Harrow Co. ("Clark's Cutaway"), Higganum, Conn.
Daley, M. H., Charles City, Ia.
Danielsen Implement Co., Independence, Mo.
Deere & Mansur Co. Moline, Ill.
Deuscher, H. P. Co., Hamilton, O.
Emerson-Brantingham Co. (Emerson, Sandow), Rockford, Ill.)
Evans Mfg. Co., Hammond, N. Y.
Farquher, A. B. Co. (Ltd.), York, Pa.
Fetzer, Wm. Co., Springfield, Ill.
Fort Madison Plow Co., Fort Madison, Ia.
Fountain City Drill Co., La Crosse, Wis.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (One or Two Lever also Cutaway), Albion, Mich.
Grand Detour Plow Co., Dixon, Ill.
Haish, Jacob Co., De Kalb, Ill.
Hays Pump & Planter Co., Galva, Ill.
Hauser & Haines Mfg. Co., Stockton, Cal.
**INTERNATIONAL HARVESTER CO.** of America ("Deering," "McCormick," "Osborne" Cut-Out, "Cotton King," "New Southern," "Columbia" Reversible), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Janesville Mach. Co. ("Budlong"), Janesville, Wis.
Johnston Harvester Co., Batavia, N. Y.
Kingman Plow Co., Peoria, Ill.
La Crosse Plow Co. ("La Crosse"), La Crosse, Wis.
Lean, Roderick Mfg. Co., Mansfield, O.
Lehr Agricultural Co., Fremont, O.
**LONG & ALLSTATER CO. ("Hamilton")**, Hamilton, O. (See adv. index, end of book)
Luthy & Co., Peoria, Ill.
Moline Plow Co. (Cutaway & Reversible), Monmouth, Ill.
Monmouth Plow Co., Monmouth, Ill.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Ohio Cultivator Co., Bellevue, O.
Ohio Mfg. Co., Upper Sandusky, O.
Ohio Rake Co. (Cut Out Disc, "Dayton," Double Disc, "Dandy," "Chattanooga," "Bells" Center Cut & "New Lion" Reversible), Dayton, O.
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Racine-Sattley Co. ("Governor"), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. ("Bonanza" & "Defiance"), Rock Island, Ill.
St. Joseph Plow Co., St. Joseph, Mo.
Sears, Albert H. & Co., Plano, Ill.
Shaw, H. C. Co. ("Stockton," Reversible), Stockton, Cal.
Standard Harrow Co. ("Model"), Utica, N. Y.
Sterling Mfg. Co., Sterling, Ill.
Sucker State Drill Co., Belleville, Ill.
Swanson Mfg. Co., Marseilles, Ill.
Syracuse Chilled Plow Co. (Steel Frame), Syracuse, N. Y.
Thomas Mfg. Co. ("Southern"), Springfield, O.
Thompson, J. & Sons Mfg. Co., Beloit, Mis.
Toledo Plow Co., Toledo, O.
Wiard Plow Co., Batavia, N. Y.
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 4540— Harrows (Spading)

Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Deere & Mansur Co., Moline, Ill.
Janesville Mach. Co. ("Budlong"), Janesville, Wis.
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
Wiard Plow Co. ("Morgan"), Batavia, N. Y.

## 4541—Harrows (Spring Tooth)

Adriance, Platt & Co. (Wheel & Wheel Riding), Poughkeepsie, N. Y.
Akron Cultivator Co., Akron, O.
Albright, James H. & Sons, Mifflingburg, Pa.
Allen, S. L. & Co., Phila., Pa.
American Harrow Co., Detroit, Mich.
Babcock Mfg. Co., Leonardville, N. Y.
Belcher & Taylor Agricultural Tool Co., Chicopee, Falls, Mass
Brown-Manly Plow Co. (Wood Frame), Malta, Ohio
Buch's, A. Sons Co., Elizabethtown, Pa.
Bucher & Gibbs Plow Co., Canton, O.
Burch Plow Works Co. (Wood Frame), Crestline, O.
Castile Chilled Plow Co., Castile, N. Y.
Connor, J. W. & Son ("Orangeville" Coil Spring & Scotch Hinge), Orangeville, Pa.
Donaldson Bros., Mount Clemens, Mich.
Eureka Mower Co. ("Davison"), Utica, N. Y.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Gale Mfg. Co. (Steel or Wood Frame), Albion, Mich.
Greenville Implement Co., Greenville, Mich.
Hartford Plow Works, Hartford, Wis.
Heebner & Sons, Lansdale, Pa.
Hench & Dromgold Co., York, Pa.
**INTERNATIONAL HARVESTER CO.** of America ("Deering," "McCormick," "Osborne" Steel Frame, Spring Tooth & Spike Tooth Combined; also Spike Tooth, etc.), 230 Michigan av, Chicago, Ill.; Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Johnston Harvester Co. ("Perry"), Batavia, N. Y.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
Lean, Roderick Mfg. Co. (Also Spike Tooth), Mansfield, O.
Lehr Agricultural Co. (Steel Frame), Fremont, Ohio
Lovejoy Co., Cambridge, N. Y.
Munnsville Plow Co. Munnsville, N. Y.
Northw'n Steel & Iron Wks., Eau Claire, Wis.
Ohio Rake Co. (Quali Steel & "Advance," "Wood," "Monarch"), Dayton, O.
Reed Mfg. Co. (Steel Frame), Kalamazoo, Mich.
Southern Plow Co., Dallas, Tex.
Spangler Mfg. Co., York, Pa.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thomas Mfg. Co. ("Western"), Springfield, O.
Toledo Plow Co. (Wood Frame), Toledo, O.
Wood, W. A. Mowing & Reaping Mach. Co., Hoosick Falls, N. Y.

## 4542—Harrows & Pulverizers

Adriance, Platt & Co. (Peg & Spring Tooth With or Without Seat), Poughkeepsie, N. Y.
Allen, S. L. & Co., Denckla bldg. Phila., Pa.
American Harrow Co., Detroit, Mich.
American Seeding Machine Co. (Spike Tooth Lever, etc.), Springfield, Ohio
Ames Plow Co., Quincy Hall, Boston, Mass.
Anderson Company ("Boss" Harrows), St. Paul, Minn.
Atlanta Agricultural Works ("Little Joe," "Arkansas Traveler," "Atlanta"), Atlanta, Ga.
Avery, B. F. & Sons (Lever, Spike Tooth),
Barley, Thos. K., Sedalia, Mo. Louisville, Ky.
Bateman Mfg. Co. ("Iron Age"), Grenloch,
Bechtolt, Geo. E., Urbana, O. N. J.
Belcher & Taylor Agl. Tool Co. (Eclipse Weed Harrow, Yankee Pulverizer, Share's Coulter Harrow, etc.), Chicopee Falls, Mass.
Benicia Iron Works, Benicia, Cal.
Billups, C. Son & Co., Norfolk, Va.
Bloom Mfg. Co. (Spike Tooth), Nashua, Ia.
Brown Mfg. Co., Zanesville, O.
Bucher & Gibbs Plow Co. (Spike Tooth), Canton, O.
Case, J. I. Plow Works (Critic & Case, Lever, Scotch), Racine, Wis.
Castille Chilled Plow Co., Castille, N. Y.
Champion Thresher Co., Orrville, O.
Clore, Wm. H. Mfg. Co. (Side Harrows), Washington, Ind.
Collins Plow Co. (Quincy Lever, Steel U Bar) Quincy, Ill.
Cutaway Harrow Co. ("Clark"), Higganum Conn
Daley, M. H., Charles City, Ia.
Danielsen Implement Co. (Revolving & Lever Harrows), Independence, Mo.
Deere & Co., Moline, Ill.
Deuscher, H. P. Co. ("Malcolm" Pulverizer), Hamilton, O.
Donaldson Bros. (Spike Tooth), Mt. Clemens, Mich.
Dowden Mfg. Co. (Weed Harrow), Prairie City, Ia.
Dunham Co., Berea, O.
Eagle Mfg. Co., Kansas City, Mo.
Eaton Plow Works (V. A. Stookey & Son, Props.), Pinckneyville, Ill.
Emerson-Brantingham Co., Rockford, Ill.
Empire Plow Co. ("Empire"), Cleveland, O.
Eureka Mower Co. ("Crescent" & "Superior" Spike Tooth Lever), Utica, N. Y.
Farquhar, A. B. Co., Ltd. (Spring Tooth, etc.) York, Pa
Fond du Lac Implement Co., Fond du Lac, Wis
Fort Madison Plow Co., Fort Madison, Ia.
Friedeman Harrow Co. (Reversible & Flexible Spike Tooth Harrows), Waverly, Iowa
Fuller & Johnson Mfg. Co. ("Boss," "Bonanza Lever," "U & Pipe Bar"), Madison, Wis.
Gale Mfg. Co. (Spring Tooth Steel & Lever Harrows, Spike Tooth, Steel U Bar), Albion, Mich
Galena Harrow Co. (Steel Lever Harrow), Galena, Kans
Galloway, Wm. Co., Waterloo, Iowa
Genesee Valley Mfg. Co. ("Fargo V Tooth") Mt. Morris, N. Y
Grand Detour Plow Co. (Pine, Beam, U Bar Angle Bar, Wood & Steel), Dixon, Ill
Haish, Jacob Co., De Kalb, Ill.
Harriman Mfg. Co., Harriman, Tenn.
Hartford Plow Co. ("Boss Lever," Angle Bar, "Scotch"), Hartford, Wis.
Hayes Pump & Planter Co. (Steel U Bar, Angle Bar or Pipe with Spike Tooth), Galva, Ill.
Hazen, W. S. & Marshall ("Hazen," "Scotch") Ripon, Wis.
Hench & Dromgold Co. (Spike Tooth, Steel & Wood Frame, Pulverizers, etc.), York, Pa.
Hoke Mfg. Co. (Lever Spike Tooth), Frankfort, Ind.
Houser & Haines Mfg. Co. (Spike Tooth), Stockton. Cal.
Howell, R. R. & Co., Minneapolis, Minn.
Hudson, S. T. ("Hudson," "Four-in-One"), Riverhead, N. Y.
Hunt, Gilbert Co. (Spike Tooth), Walla Walla, Wash.
Hunt, Helm, Ferris & Co., Harvard, Ill.
**INTERNATIONAL HARVESTER CO.** of America, 230 Michigan av, Chicago, Ill.; Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Janesville Machine Co. (Tubular Lever), Janesville, Wis.
Jeliff, C. O. Mfg. Corporation ("Meeker's" Smoothing), Southport, Conn.
Johnson Harvester Co. (Steel), Batavia, N. Y.
Johnson & Smith Co. (Steel), Austin, Minn.
Keller Mfg. Co., Sauk Center, Minn.
Kelly-Springfield Road Roller Co. (Road & Street Harrows), Springfield, O.
Keystone Farm Machine Co. (Spring & Spike Tooth), York, Pa.
King & Hamilton Co. (Pulverizers), Ottawa, Ill.
Kingman Plow Co. (U Bar), Peoria, Ill.
La Crosse Plow Co. (Tubular, Zig-Zag, Steel & Wood Flexible & Wood Lever), La Crosse, Wis.
Lean, Roderick Mfg. Co. (All Steel Lever, Zig-Zag, Spike Tooth), Mansfield, O.
Lee Bros., Watertown, S. D.
Lehr Agricultural Co. (Peg Tooth, etc.), Fremont, O.
Lovejoy Co. (Spike Tooth), Cambridge, N. Y.
Marca Mfg. Co. (Riding), Maroa, Ill.
Marseilles Harrow Mfg. Co. (Triangular-Steel Frame), Marseilles, Ill.
Mead Hay Press Co., Pueblo, Col.
Minneapolis Plow Works (Boss, Monitor, Scotch Steel Frame Lever), Minneapolis, Minn.
Moline Plow Co. (Steel Pipe Lever, U Bar Pulverizer), Moline, Ill.
Monmouth Plow Co. (Lever), Monmouth, Ill.
Nash, Duane, H. (Acme Pulverizer Harrow, Clod Crusher & Leveler), Millington, N. J.
Naylor Mfg. Co. (Spike Tooth), La Grange, Ill.
Northwestern Steel & Iron Works (Disc, Spike Tooth & Spring Tooth), Eau Claire, Wis.
Ohio Cultivator Co. (Steel Lever, Cyclone Pulverizer), Bellevue, O.
Ohio Rake Co. (U Bar, Quail L Bar, Spike Tooth, "Ohio" Wood Bar "Miama"), Dayton, O.
Parlin & Orendorff Co. (Canton Pipe Frame Lever & U Bar Lever Scotch & Smoothing, Rough Rider, Clod Crusher), Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Peterson Mfg. Co. (Imperial Pulverizer, Kent, Ohio
Plattner Implement Co. (Spike Tooth, Steel Frame), Denver, Col.
Pounder, G. H. (Pounder Flexible), Ft. Atkinson, Wis.
Racine-Sattley Co. (Spike Tooth, Steel Frame), Springfield, Ill., & Racine, Wis.
Reed & Rogers (Scotch), Vernon, Ind.
Ripson, Wm. & Son, Youngstown, N. Y.
Rock Island Plow Co. (Steel & Wood Lever, Flexible, Harrows), Rock Island, Ill.
Rockford Implement Co. ("Skandia", Spike Tooth, Wood Frame), Rockford, Ill.
Rockford Mfg. Co. ("Rockford", Steel & Wood Lever), Rockford, Ill.
Rowell, I. B. & Co., Menomonee Falls, Wis.
St. Joseph Plow Co. (Scotch, Channel & Pipe or Tap Bar Steel Spike Tooth), St. Joseph, Mo.
Sargent, Osgood & Roundy Co., Randolph, Vt.
Sears, Albert H. Co., Plano, Ill.
Sechler, D. M. Implement & Carriage Co. ("Black Hawk Pulverizer"), Moline, Ill.
Selby, Starr & Co., Peoria, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Southern Plow Co., Columbus, Ga.
Sparta Plow Works (Imperial U Bar), Sparta, Ill.
Star Mfg. Co. (Spike Tooth, U Bar), Carpentersville, Ill.
Sterling Mfg. Co. (Lever), Sterling, Ill.
Syracuse Chilled Plow Co. (Spring & Spike Tooth), Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co. (U. Bar, Steel Lever, Champion Pipe Bar)) Beloit, Wis.

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Toledo Plow Co. (Spike or Spring Tooth), Toledo, Ohio
Tower, J. D. & Sons Co. (Pulverizer, Clod Crusher & Weed Exterminator), Mendota, Ill.
Towers & Sullivan Mfg. Co. ("Pennington" Roman & Ark Side Harrow), Rome, Ga.
Umbach, F. G., Athens, Ga.
Vaughn, O. C. Mfg. Co. (Flexible), Jefferson, Wis.
Whitman Agricultural Co., St. Louis, Mo.
Wiard Plow Co. (Cotton & Corn), Batavia, N. Y.
Wilder-Strong Implement Co., Monroe, Mich.
Wood, Walter A. Mowing & Reaping Machine Co. (Disc, Spike & Spring Tooth), Hoosick Falls, N. Y.
Zelisch, A. Theo. (Smoothing), Mayville, Wis.

## 4543—Harvesters (Bean & Pea)

Akron Cultivator Co. (& Com.), Akron, O.
Allen, S. L. & Co., Denckla bldg
American Harrow Co., Detroit, Mich.
Arnold's, G. W. Son, Ionia, Mich.
Blocki, F. Co., Sheboygan, Wis.
Caledonia Bean Harvester Works, Caledonia, N. Y.
Cardwell Machine Co., Richmond, Va.
Donaldson Bros., Mt. Clemens, Mich.
Farmers' Handy Wagon Co., Saginaw, Mich.
Gale Mfg. Co., Albion, Mich.
Hamachek, Frank, Kewanee, Wis.
Lehr Agricultural Co., Fremont, O.
Le Roy Plow Co., Le Roy, N. Y.
Munnsville Plow Co., Munnsville, N. Y.
Ohio Cultivator Co., Bellevue, O.
Owens, J. L. Co., Minneapolis, Minn.
Patterson & Brown Bros. Mfg. Co., Holly, Mich.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Sterling Mfg. Co. Sterling, Ill.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Wiard Plow Co. (The Universal), Batavia, N. Y.

## 4544— Harvesters (Beet)

American Beet Harvester Co., Saginaw, Mich.

## 4545—Harvesters (Combined)

Best Mfg. Co., San Leandro, Cal.
Holt Mfg. Co., Stockton, Cal.
Houser & Haines Mfg. Co., Stockton, Cal.

## 4546— Harvesters (Corn)

Adriance, Platt & Co. (Also Rear Discharge & Elevator Binders), Poughkeepsie, N. Y.
Bennett, H. L. & Co., Westerville, O.
Blue Valley Mfg. Co., Manhattan, Kan.
Dain Mfg. Co., Ottumwa, Ia.
Fleming & Sons Mfg. Co., Huntsville, Mo.
Foos Mfg. Co., Springfield, O.
Independent Harvester Co., Plano, Ill.
**INTERNATIONAL HARVESTER CO.** of America, 230 Michigan av, Chicago, Ill.; Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Johnston Harvester Co., Batavia, N. Y.
Kansas City Hay Press Co., Kansas City, Mo.
Ohio Rake Co. ("Standard" Steel, "Monarch" Wood Frame), Dayton, O.
Standard Harrow Co., Utica, N. Y.

## 4547—Harvesters (Potato)

Aspinwall Mfg. Co., Jackson, Mich.
Dowden Mfg. Co., Prairie City, Ia.
Stevens Mfg. Co., Marinette, Wis.

## 4548— Harvesters (Rice)

**INTERNATIONAL HARVESTER CO.** of America, 230 Michigan av, Chicago, Ill.; Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Johnston Harvester Co., Batavia, N. Y.

## 4549—Harvesters & Binders (Grain)

Acme Harvesting Machine Co. (Binders Only), Peoria, Ill.
Adriance Platt & Co., Poughkeepsie, N. Y.
Independent Harvester Co., Piano, Ill.
**INTERNATIONAL HARVESTER CO.** of America ("Champion," "Deering," "McCormick," "Milwaukee," "Osborne," "Plano"), 230 Michigan av, Chicago, Ill.; Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Johnston Harvester Co., Batavia, N. Y.
Seiberling & Miller Co., Doylestown, O.
Wood, Walter A. Mowing & Reaping Machine Co. ("New Century"), Hoosick Falls, N. Y.

## 4550— Hasps (Hinge)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Lawrence Bros. (Wrought Steel, Also Gravity Hasps), Sterling, Ill.
McKinney Mfg. Co., N. S., Pittsburg, Pa.
National Mfg. Co. (Wrought Steel), Sterling, Ill.

## 4551— Hasps & Staples

(See also Staples)

**ACME STEEL GOODS CO. ("Acme"** Wrought Steel), Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Brewer Bros., 614 Filbert, Phila., Pa.
Corbin Cabinet Lock Co., New Britain, Conn.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Godcharles, F. A. Co. (Hinge Hasps), Milton, Pa.
Griffin Mfg. Co. (Also Wrought Steel Hinge Hasps), Erie, Pa.
Hazel Atlas Glass Co., Wheeling, W. Va.
Humason & Beckley Mfg. Co., New Britain, Conn.
Lawrence Bros. (Wrought Iron), Sterling, Ill.
McKinney Mfg. Co., N. S., Pittsburg, Pa.
National Mfg. Co. (All Steel, Also Automatic Safety Latching), Sterling, Ill.
Ney Mfg. Co., Canton, O.
Racine General Mfg. Co., Racine, Wis.
Reading Hardware Co. (Wrought Iron), Reading, Pa.
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Spengler Bros. Co. (Brass Hasps), Rockford, Ill.
**STANLEY WORKS (Wrought Crate** for Berry Boxes, etc.), New Britain, Conn. (See adv. index & branch offices, end of book)
Vaughan & Bushnell Mfg. Co., 877 Carroll av, Chicago, Ill.
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.

## 4552—Hatch Doors (Automatic)

Bardsley Bros., 151 Baxter, New York
Beckwith Elevator Co., Boston, Mass.
Cohoes Iron Foundry & Machine Co. ("Snow"), Cohoes, N. Y.
Curran, Jas. H. Elevator Co., Cincinnati, O.
Packer, Thos., Union City, Conn.
Richmond Safety Gate Co., Richmond, Ind.
Salem Elevator Works, Salem, Mass.
Sedgwick Machine Works, Poughkeepsie, N. Y.
Shields, J. H., Cincinnati, O.
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
Underwriters Hatch Door Co., 1741 Walnut, Chicago, Ill.
**WARNER ELEVATOR MFG CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
**WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y.** (See adv. index & branch offices, end of book)
Webb, J. R. ("Excelsior"), 414 Bleecker, New York
Weichans, A. C., Lancaster, Pa.

## 4553—Hatch Doors (Automatic in Case of Fire Only)

**REEDY, H. J. CO. (Fusible Link in** Case of Fire), Cincinnati, O. (See adv. index, end of book)
Richmond Safety Gate Co., Richmond, Ind.
Shields, J. H., Cincinnati, O.
Underwriters Hatch Door Co. (Electric), 1741 Walnut, Chicago, Ill.
Victor Mfg. Co. (Fusible Link), Newburyport, Mass.

## Hatch Gates (Automatic)

(See Elevator Gates, Automatic)

## 4554— Hatchet Mfrs.

American Axe & Tool Co. (All Kinds), Glassport, Pa., 253 B'way, New York
**ARCADE MFG. CO. (Cast Shingling,** etc.), Freeport, Ill. (See adv. index, end of book)
Atha Tool Co. (Shingling, Lathing, Half & Claw & Broad), Newark, N. J.
Black, John B. ("Wm. Beatty & Sons," "Royal" Ice, Half Shingling, Claw, Lathing, Barrel, Produce, Warehouse or Tobacco, Broad, etc.), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Burgess-Norton Mfg. Co. ("Bur-Nor", "Black Eagle"), Geneva, Ill.
Chantrell Tool Co. (Cast Iron & Steel), Reading, Pa.
Collins Co., Collinsville, Conn.
Evansville Tool Works (All Kinds), Evansville, Ind.
Franklin Specialty Co. ("Clark" Nickel Plated), Reading, Pa.
Germantown Tool Works, 521 Market, Gtn.,
Gleason & Allen, Plymouth, Conn. Phila., Pa.
Hammond, C. & Son (All Kinds), Ogontz, Pa.
Hardware & Woodenware Mfg. Co. (Cast Iron, etc.), 693 B'way, New York
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Mason & Parker, Winchendon, Mass.
North Wayne Tool Co. ("Karadam," Tobacco, etc.), Hallowell, Me.
Norton Tool Co. (Shingling, Lathing, Half, Claw, Broad, Hunters', etc.), West Park, Ohio
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plumb, Fayette R., c Tucker & Trenton avs, Phila., Pa.
**RICHARDS - WILCOX MFG. CO.** ("Bur-Nor" Oil Tempered Blade, Hollow Steel Handle), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Rocky Hill Hardware Co., Rocky Hill, Conn.
Rubino Edge Tool Works, Newark, N. J.
Sayre, L. A. Co., Newark, N. J.
Stortz, John & Son (Ice), 210 Vine, Phila., Pa.
Stover Mfg. Co. (Cast, Shingling, etc.), Freeport, Ill.
Weston, Thos. B., Baltimore, Md.
What Cheer Tool Co. ("What Cheer," Claw, Spiking, etc.), What Cheer, Iowa
White, L. & I. J. Co., Buffalo, N. Y.
Wiebusch & Hilger (Ltd.) (Importers), 106 Lafayette, New York
Williams, A. C. Co., Ravenna, O.
Williams, C. A. & Co., Skowhegan, Me.
Wrightsville Hdw. Co. (Claw, Shingles & Half), Wrightsville, Pa.

## 4555— Hatchets (Lathing)

Peck, Stow & Wilcox Co., Southington, Conn.

## 4556— Hatchets (Shingling)

Peck, Stow & Wilcox Co., Southington, Conn.

## 4557— Hauls (Car)

**BARTLETT, C. O. & SNOW CO.** ("Greene" Self-Dumping), French st., Cleveland, O. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Fairmont Mining Machinery Co. (Endless Cable), Fairmont, W. Va.
**JEFFREY MFG. CO. (Wire Cable or** Chain) Columbus, O. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Nelson Foundry & Machine Co., Nelsonville, Ohio
Pittsburg Coal Washer Co., Pittsburg, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 4558—Head Chairs (Steel Plate)

Morden Frog & Crossing Works, Commercial Bank bldg, Chicago, Ill.

## 4559— Headers (Barrel)

Ames Plow Co., Boston, Mass.
Hyson Tool & Supply Co., St. Louis, Mo.
Swett, A. L. Iron Works (Or Barrel Presses), Medina, N. Y.
Tanner, D. F., Holland, N. Y.

## Headers (Bolt)

(See Bolt Heading Machines)

## 4560—Headers (Fruit Can)

Ayars Machine Co. ("Merriam"), Salem, N. J.
**BLISS, E. W. CO., 19 Adams, Brook**lyn, N. Y. (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL W'KS.** Buffalo, N. Y. (See adv. index, end of book)

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## 4561– Headers (Grain)

Acme Harvesting Machine Co., Peoria, Ill.
**INTERNATIONAL HARVESTER CO. of America** ("Champion," "Deering," "McCormick," "Plano"), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## Headers (Rivet)

(See Rivet Heading Machines)

## Headers (Rod)

(See Rod Heading Machines)
Manville, E. J. Machine Co., Waterbury, Conn.
National Machinery Co., Tiffin, O.

## 4562–Headlights (Acetylene Gas)

Adams & Westlake, 319 W Ontario, Chicago, Ill.
American Acetylene Stove Co. (Traction Engine, etc.), Minneapolis, Minn.
Commercial Acetylene Co., 80 B'way, New York
Dayton Mfg. Co., Dayton, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**MILBURN, A. ALEXANDER CO., 505** W Lombard, Baltimore, Md. (See adv. index, end of book)
Rushmore Dynamo Works, Plainfield, N. J.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 4562a– Headlights (Arc)

(See Headlights, Electric Car)

## 4563–Headlights (Arc, Electric Mine Locomotive)

Crouse-Hinds Co., Syracuse, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 4564–Headlights (Automobile)

Badger Brass Mfg. Co. ("Autoclipse"), Kenosha, Wis.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 4565–Headlights (Electric Car)

(See also Headlights, Locomotive)
Adams & Westlake Co. (Arc & Incandescent), 319 W Ontario, Chicago, Ill.
Anderson-Lacey Electric Head Light Co., Houston, Tex.
Boesch Lamp Co., San Francisco, Cal.
Crouse-Hinds Electric Co. (Arc & Incandescent), Syracuse, N. Y.
Dayton Mfg. Co. (Arc & Incandescent; ("Eureka," "Mosher," "Rex," "Venus," "Wayenhals," "Wellman"), Dayton, O.
Defiance Lantern & Stamping Co., Defiance, O.
Dewey, F. O. Co., 28 Canal, Boston, Mass.
Dressel Railway Lamp Works, 3860 Park av, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Glazier Headlight Co., Rochester, N. Y.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Kraushaar Brass Mfg. Co. ("Anderson-Smith," Arc & Incandescent), St. Louis, Mo.
Neal Electric Headlight Co., Boston, Mass.
Pyle National Electric Headlight Co., 241 S Jefferson, Chicago, Ill.
Ridlon Frank Co. ("Ridlon" Incandescent), Boston, Mass.
Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
Schettler, C. A. & Co. (Duplex), Cleveland, O.
Schroeder Headlight Co. ("Schroeder"), Evansville, Ind.
Smith, Chas. G. (Arc & Incandescent), 352 Pearl, New York
Star Headlight Co., Rochester, N. Y.
Trolley Supply Co. ("Climax," "Star," "Globe"), Canton, O.
United States Headlight Co. (Arc & Incandescent), Buffalo, N. Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

## Headlights (Incandescent)

(See Headlights, Electric Car)

## 4566–Headlights (Locomotive)

(See also Headlights, Electric Car; also Headlights, Acetylene Gas; also Headlights, Oil)
Adams & Westlake Co. (Also Street & Interurban), 319 W Ontario, Chicago, Ill.
American Acetylene Stove Co. (Acetylene Gas), Minneapolis, Minn.
Boesch Lamp Co., San Francisco, Cal.
Dayton Mfg. Co., Dayton, O.
Dewey, F. O. Co., 28 Canal, Boston, Mass.
Dressel Railway Lamp Co., 3860 Park av, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Glazier Head Light Co., Rochester, N. Y.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Handlan-Buck Mfg. Co. (Handlan), 210 N 3d, St. Louis, Mo.
Kraushaar Brass Mfg. Co., St. Louis, Mo.
**MILBURN, A. ALEXANDER CO.** (Steam Acetylene Generator), 505 W Lombard, Baltimore, Md. (See adv. index, end of book)
Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y
Schroeder Headlight Co. ("Schroeder"), Evansville, Ind.
Sherburne & Co., 53 Oliver, Boston, Mass.
Star Headlight Co., Rochester, N. Y.
United States Headlight Co. (Electric, Gas & Oil), Buffalo, N. Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 4567– Headlights (Oil)

Adams & Westlake Co., 319 W Ontario, Chi-
Dayton Mfg. Co., Dayton, O. cago. Ill.
Defiance Lantern & Stamping Co. (Kerosene), Rochester, N. Y.
Smith, Chas. G., 352 Pearl, New York
Star Headlight Co., Rochester, N. Y.
United States Headlight Co., Buffalo, N. Y.

## 4568– Headrods

Economy Separable Switch Point Co. ("Economy," Adjustable for Switch Point, etc.), Louisville, Ky.

## 4569– Heads (Boring)

General Pump Appliance Co. (Eccentric), 42 W 43d, New York

## 4570– Heads (Buffing)

Meriden Machine Tool Co., Meriden, Conn.

## 4571–Heads (Coke Scraper)

Harris, Wm. & Son Co., N S, Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Western Tool & Forge Co., Brackenridge, Pa.

## 4572– Heads (Cutter)

American Woodworking Machinery Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Buettner & Shelbourne Machine Co. ("B. & S"), Terre Haute, Ind.
Fay, J. A. & Egan Co., Cincinnati, O.
Power, L. & Co., 20 S 23d, Phila., Pa.
Schellenbach-Hunt Tool Co. ("Universal" Expanding Cutter Boring), Cincinnati, O.
Shimer, Samuel J. & Sons (Expansion), Milton, Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Thompson, W. S., 418 W 24th, New York
Woods, S. A. Machine Co. ("Woods" Convertible Disc Side), Boston, Mass.
Wright, Chas. E. Co., Kenilworth, N. J.

## 4573–Heads (Cutter, Mining Machine)

Buettner & Shelbourne Machine Co. ("B. & S."), Terra Haute, Ind.
Prox, Frank Co. (Hardware Steel), Terra Haute, Ind.

## 4574– Heads (Dado)

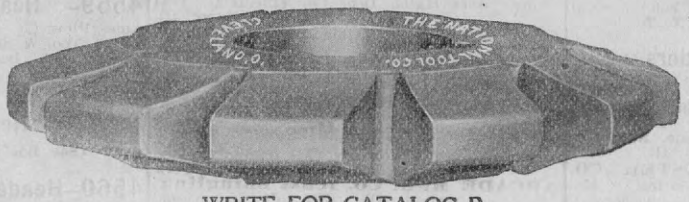
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Baldwin, Tuthill & Bolton (Grooved or Dado), Grand Rapids, Mich.
Bentel & Margedant Co., Hamilton, O.
Fox Machine Co., Grand Rapids, Mich.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.

## 4575– Heads (Die)

Adjustable Collet Co., Cleveland, O.
Exeter Machine Works, Exeter, N. H.
Geometric Tool Co. (Self-Opening & Adjustable Screw Cutting), New Haven, Conn.
Jarecki Mfg. Co., Erie, Pa.
Landis Machine Co. (For Pipe Threading), Waynesboro, Pa.
Modern Tool Co. (Self-Opening Screw Cutting), Erie, Pa.
**MURCHEY MACHINE & TOOL CO.** (Automatic), 52 Porter, c 4th av, Detroit, Mich. (See adv. index & branch offices, and of book)
**NATIONAL TOOL CO. (Automatic** Opening & Closing), Cleveland, O. (See adv. index, end of book)


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## 4576– Heads (Golf)

Page-Storms Drop Forge Co. (Drop Forged Steel), Chicopee, Mass.

## 4577– Heads (Hard Fibre)

**CONTINENTAL FIBRE CO.** (For Spools, Spark Coils, etc.), Newark Centre, Del. (See adv. index & branch offices, end of book)

**DELAWARE HARD FIBRE CO.** (For Spark Coils, Spools, etc.), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)

**DIAMOND STATE FIBRE CO.** (For Spark Coils, Spools, etc.), Elsmere, Del. (See adv index, end of book)

## 4578–Heads (Hollow Augur)

Bentel & Margedant Co., Hamilton, O.

## 4579–Heads (Index & Dividing)

Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.
Garvin Machine Co., 137 Varick, New York
Owen Machine Tool Co., Springfield, O.
Pratt & Whitney Co., Hartford, Conn.

## 4580– Heads (Piston)

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
Pratt & Letchworth Co., Buffalo, N. Y.

## 4581– Heads (Planer)

Crucible Steel Co. of America (La Belle Steel), Pittsburg, Pa.

## 4582– Heads (Polishing)

Builders' Iron Foundry, Providence, R. I.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Goodell-Pratt Co. (Also Grinding), Greenfield, Mass.
Hanson & Van Winkle Co., Newark, N. J.

## 4583–Heads (Safety, for Jointers)

Crescent Machine Co., Lectonia, Ohio

## 4584–Heads (Sash & Coping)

Universal Mfg. Co. ("Ross"), Cincinnati, O.

## 4586– Heads (Turret)

Baker Machine Co., New Bedford, Mass.

## Heaters Acetylene)

(See Stoves, Acetylene)

## 4587– Heaters (Air)

**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices. end of book)

**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

Schutte & Koerting Co. ("S. & K." Film), 1251 N 12th, Phila., Pa.

## 4588–Heaters (Airtight Wood)

**WILSON F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 4589–Heaters (Asphalt, Pitch & Tar)

(See also Machinery, Asphalt)

**CANTON BOILER & ENGINEERING CO.,** (Asphalt & Tar), Canton, O. (See adv. index, end of book)
Connery & Co., 9th & Master, Phila., Pa.
Evans, F. H., 31 Hewes, Brooklyn, N. Y.
Hooke, Robt., Chattanooga, Tenn.
Iroquois Iron Works, Buffalo, N. Y.

**KENNICOTT CO. (Tar & Asphalt),** Sales Office: Corn Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

Leslie, Elliott Co., Paterson, N. J.
Littleford Bros., 435 E Pearl, Cincinnati, O.

**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.

**PRESSED STEEL TANK CO., Mil-**waukee, Wis. (See adv. index, end of book)

Schalkenbach & Budke, Jersey City, N. J.
Smith, Samuel & Son Co., Paterson, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Stuebner, G. L. Iron Works, Long Island City, N. Y.
Turl's, Jno. Sons, 26 Cortlandt, New York: Works: Newburgh, N. Y.
Universal Road Machinery Co. (Melting Tanks), Kingston, N. Y.
Union Iron Works, Hoboken, N. J.

## 4590–Heaters (Automobile & Carriage)

**CHICAGO FLEXIBLE SHAFT CO.** ("Clark"), 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)

Kelly Mfg. Co. (Vehicle). Waterloo, Iowa
Lehman Bros. ("Star"), 10 Bond, New York
McCord Mfg. Co. ("McCord"), Detroit, Mich.
Novelty Mfg. Co. (X-Radium), Jackson, Mich.
Progressive Mercantile & Mfg. Co. ("Petty"), Pana, Ill.
Standard Stamping Co. ("Standard"), Marysville, O.
Wilson Stove & Mfg. Co., Valley Park, Mo.

## 4591– Heaters (Barrel)

Hynson Tool & Supply Co. ("Champion"), St. Louis, Mo.
Jacobs, Kenneth W., Milwaukee, Wis.
Manistee Iron Works Co., Manistee, Mich.

**WARSAW ELEVATOR CO., War-**saw, N. Y. (See adv. index & branch offices, end of book)

White, L. & I. J. Co. ("Improved-Excelsior"), Buffalo, N. Y.

## Heaters (Bath)

(See Heaters, Water, Bath or Tank)

## 4592–Heaters (Bench Rivet)

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Gas or Oil Blast), 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 4593–Heaters (Binder Stone)

**RUGGLES - COLES ENGINEERING** Co. (Portable Heaters for Road Surfacing), 48 Church, New York. (See adv. index & branch offices, end of book)

## 4594– Heaters (Car, Coal)

Baker, Wm. C. Heating & Supply Co. ("Mighty Midget," Hot Water), 143 Liberty, New York

**CHICAGO CAR HEATING CO.** (Vapor System), Railway Exchange bldg, Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)

Consolidated Car Heating Co. (Direct Steam & Hot Water), 149 B'way, New York, & 413 N Pearl, Albany, N. Y.
Detroit Stove Works ("Jewell"), Detroit, Mich.
Germen Stove Co. ("Radiant" Hot Water), Erie, Pa.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
Safety Car Heating & Lighting Co., 2 Rector, New York
Smith, Peter, Heater Co. (Hot Water), Detroit, Mich.
Wilks, S. Mfg. Co., 35th c Shields av, Chicago, Ill.

## 4594a–Heaters (Car, Vapor System)

**CHICAGO CAR HEATING CO., Rail-**way Exchange bldg. & 170 B'way, New York (See adv. index, end of book)

## 4595–Heaters (Combination)

Barber Mfg. Co. (Hot Water & Hot Air), Ashtabula, O.
Barstow Stove Co. ("Bay State"), 210 Water, New York & Providence, R. I.
Boynton Furnace Co., 106 W 37th, New York
Chicago Heater & Supply Co., 54 Dearborn, Chicago, Ill.
Continental Radiator & Foundry Co. ("Little Hercules," Combination Water Heater, Cook & Laundry Stove), St. Louis, Mo.
Cox, Abram, Stove Co., cor American & Dauphin, Phila., Pa.
Earley, Wm. (Hot Air, Hot Water & Steam), 1216 Ridge av, Phila., Pa.
Excelsior Steel Furnace Co., 517 W Monroe, Chicago, Ill.
Fuller-Warren Co., Milwaukee, Wis.
Fuller & Warren Co., Troy, N. Y.
Giblin & Co., Utica, N. Y.
Hart & Crouse Co., Utica, N. Y.
Henderson, Frank, Troy, N. Y.
International Heater Co., Utica, N. Y.
Keith Furnace Co. ("Keith"), Des Moines, Ia.
Kohler Furnace & Steam Heating Co., 1342 Columbus av, Rox., Boston, Mass.
Lotz, A. Sons & Co., Cincinnati, O.
McCrum-Howell Co. (Hot Air & Hot Water), 103 Park av, New York
Magee Furnace Co., 38 Union, Boston, Mass.
Makin Heating Co., 24 S 7th, Phila., Pa.
March-Brownback Stove Co., Pottstown, Pa.
Mershon Patent Shaking Grate Works, 1203 Filbert, Philadelphia, Pa.
Monroe Foundry & Furnace Co., Monroe, Mich.
Mott, J. L., Iron Works (Hot Air & Hot Water), 118 5th av, New York
Mueller, L. J. Furnace Co., Milwaukee, Wis.
Peninsular Stove Co. (Hot Air & Hot Water), 10th & W Fort, Detroit, Mich.
Portland Stove Foundry Co., Portland, Me.
Quaker Mfg. Co. (Hot Air & Hot Water), Chicago Heights, Ill.
Reading Stove Works (Hot Air & Hot Water), Reading, Pa.
Richardson & Boynton Co., 31 W 31st, New York
Rund Mfg. Co. (Coke, Coal & Gas), 29th & Smallman, Pittsburg, Pa.
Sheppard, Isaac A. & Co., 1801 N 4th, Phila., Pa.
Smith, Chas. Co. (Hot Air & Hot Water), 122 Lake, Chicago, Ill.
Southard-Robertson Co., 257 Water, New York
Stamford Foundry Co. (Hot Air & Hot Water), Stamford, Conn.
Utica Heater Co., Utica, N. Y.
Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.
White, Chas. H. Heating Co., 22 Bowker, Boston, Mass.

## 4596–Heaters (Curling Iron)

**CUTLER-HAMMER MFG. CO.** (Electric), Milwaukee, Wis. (See adv. index & branch offices. end of book)


# CHICAGO CAR HEATING CO.

RAILWAY EXCHANGE
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**Steam Hose Couplers. Train Pipe Valves. Safety Valves. Car Heater and Drain Valves. Steam Traps. Car Heater Fittings. Catalogue describing all devices, cheerfully furnished upon application.**


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## 4597– Heaters (Electric)

American Electrical Heater Co. ("American", for Cooking, Heating, etc.), Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**JOHNS, H. W. MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Manning, Bowman & Co. (Cooking Utensils), Meriden, Conn.
Nagel, W. G. Elec. Co. ("Fisk"), Toledo, O.
Pacific Elec. Heating Co., Ontario, Cal.
Rathbone & Panigot Co. (Fire Places & Stoves), Grand Rapids, Mich.
St. Louis Electric Heating Co. (All Forms of Electrical Heating Devices), St. Louis, Mo.
Simplex Electric Heating Co., Boston, Mass.
**WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 4598–Heaters (Electric Blue Printing)

**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)

## 4599–Heaters (Electric Car)

Consolidated Car Heating Co., 149 B'way, New York, & Albany, N. Y.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
**JOHNS, H. W.-MANVILLE CO. ("J-M"),** 100 William, New York. (See adv. index & branch offices, end of book)
Prometheus Electric Co., 236 E 43d, New York
Simplex Electric Heating Co., Boston, Mass.

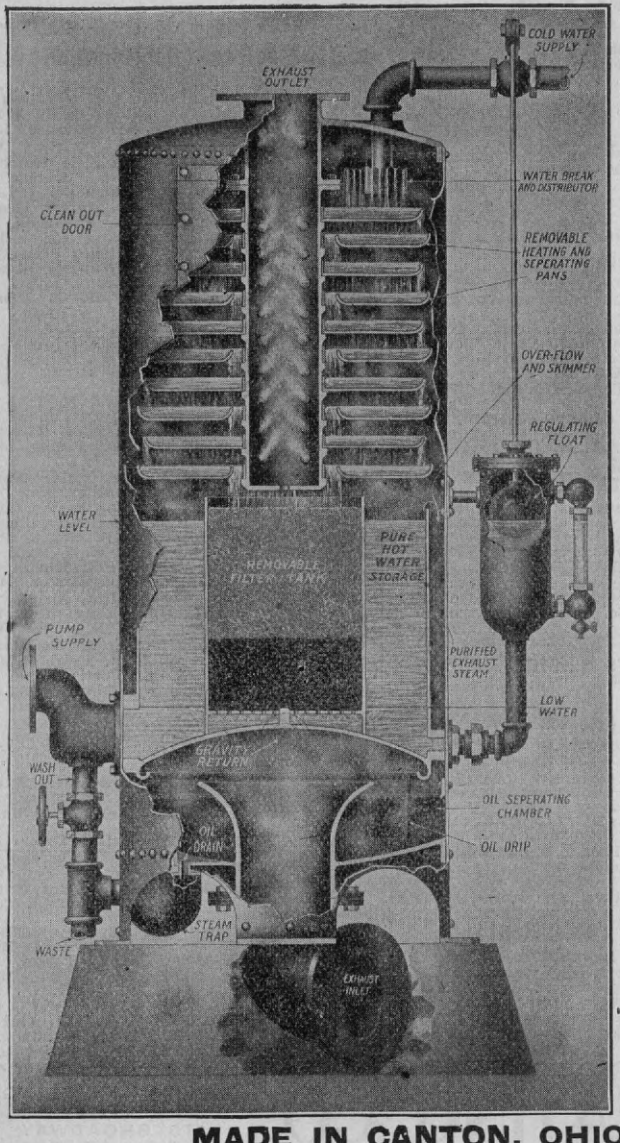
## 4600–Heaters (Feed Water)

(See also Purifiers, Feed Water)

Alberger Condenser Co. ("Wainwright"), 140 Cedar, New York
Allen, Wm. & Sons Co. ("Victor," "Excelsior"), Worcester, Mass.
**ALLIS-CHALMERS CO. ("Reynolds"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Angells, Jno. E. & Co., St. Louis, Mo.
Atmospheric Condensation Co. ("Shower"), Kansas City, Mo.
Baragwanath, Wm. & Son, 1260 W Division, Chicago, Ill.
Bass Foundry & Machine Co., Fort Wayne, Ind.
Bates Machine Co. ("Cookson"), Joliet Ill.
**BEGGS, JAMES & CO., Liberty & Church, New York**
Berry Engineering Co., Chester, Pa.
Berryman Feed Water Heater & Purifier Co., 127 N 4th, Phila., Pa.
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Brancher Bros. ("Little Giant"), Danville, Ill.
Brennan, John & Co., Detroit, Mich.
Bridgeport Boiler Works ("Lowe"), Bridgeport, Conn.
Brownell Co. (Standard & Improved), Dayton, Ohio
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Catchpole, A. & Co., Geneva, N. Y.
Central Boiler Works, Detroit, Mich.
Chicago Steam Boiler Works, Chicago, Ill.
Cole, R. D. Mfg. Co., Newnan, Ga.
Colles, E. G. T. & Co., 117 N Canal, Chicago, Ill.
Cox & Sons Co., Bridgeton, N. J.
Davis, I. B. & Son ("Berryman," "Gleaner" & "Hartford"), Hartford, Conn.
Donegan & Swift ("Swift"), 6 Murray, New York
Eagle Foundry & Machine Co., Fort Scott, Kan.
Eclipse Feed Water Heater & Purifier Co. ("Eclipse" for Exhaust & Live Steam), Oshkosh, Wis.


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TYPE "A"




**The First Really Correct Feed Water Heater, Oil Separator, Purifier and Condensation Receiver.**

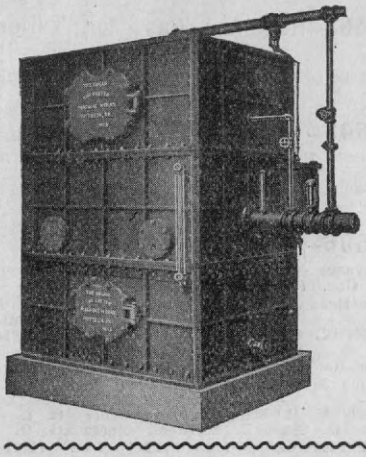
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# The EXETER MACHINE WORKS
## PITTSTON, PA.
## Feed Water Heaters and Purifiers

Elliott Co. ("Pittsburg", Heater & Purifier), Pittsburg, Pa.
Erie City Iron Works (Open & Counter Current, etc.), Erie, Pa
Erie Mfg. & Supply Co. ("Hardwick & Riblet"), Erie, Pa
**EXETER MACHINE WORKS, Pittston, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flint, Samuel E. & Co. ("St. Louis"), Security bldg, St. Louis, Mo.
Foskett & Bishop Co., New Haven, Conn.
Frost Mfg. Co. ("Frost" Standard). Galesburg, Ill.
Fulton Iron Works ("Llewellyn"), San Francisco, Cal.

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Garrett, W. D. & Co. ("Garrett" Heater & Oil Separator), 136 Liberty, New York
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GODFREY-KEELER CO., 70 Warren, New York** (See adv. index, end of book)
Great Lakes Engineering Works (Heaters & Purifiers), Detroit, Mich.
Green Fuel Economizer Co., Matteawan, N. Y.

**GRISCOM-SPENCER CO. ("Reilly"** Multicoil Marine & Stationary; also "Goubert"), 90 West, New York. (See adv. index & branch offices, end of book)



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AND
**Goubert**
**FEED WATER HEATERS**
*Every Coil a Spring.*
*Detachable by a Wrench*
*Accessible through door in shell.*

Harrisburg Pipe & Pipe Bending Co. ("Excelsior," "Improved American"), Harrisburg, Pa.
Harris, Arthur & Co. ("Harris" Coil Heater), 212 N Curtis, Chicago, Ill.
Harrison Safety Boiler Works ("Cochrane"), 17th & Allegheny av, Philadelphia, Pa.
Hartwell Iron Works, Houston, Tex.
Hawley Down Draft Furnace Co. ("Excelsior"), Chicago, Ill.
Hoppes Mfg. Co., Springfield, O.
Hussey, McCann & Co. (Compound Flue), 87 Warren, New York
Jacobs, Charles & Co. ("Jacobs" Water Tube), 42 Oliver, Boston, Mass.
Jarvis Engine & Machine Works ("Monitor"), Lansing, Mich.
Keeler, E. Co., Williamsport, Pa.
Kelley, Benj. F. & Son ("Standard," "Berryman"), 26 Cortlandt, New York
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO. ("Kewanee,"** Open Type), Kewanee, Ill. (See adv. index & branch offices, end of book)
Keyes, F. E. & Son, 20 Broad, New York
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Kroeschell Bros. Co. ("Kroeschell," "Bourgeois," Heaters & Purifiers), 440 W Erie, Chicago, Ill.

# THE WHITLOCK COIL PIPE CO.
## HARTFORD

**FEED WATER HEATERS**
Open and Closed
3,000,000 H. P. in Daily Use

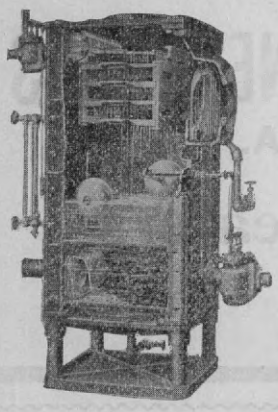
**COILS OF ALL DESCRIPTIONS**
MADE OF BRASS, COPPER OR IRON PIPE OR TUBE FOR ALL PURPOSES OF HEATING AND COOLING

**FLANGED AND BENT PIPE**
For High Pressure Power Plant Piping

**THE WHITLOCK DOUBLE LAP PIPE JOINT**

*Main Office and Works: HARTFORD, CONN.* *New York Office: SINGER BLDG.*

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SECTIONAL VIEW

**For Economy Use the Blake-Knowles Open Feed Water Heater**

It combines the functions of a Feed Water Heater, Oil Separator, Purifier and Automatic Receiver.

Increased Boiler Efficiency and Decreased Labor and Fuel Costs are the results of its use.

**THE BLAKE & KNOWLES STEAM PUMP WORKS**

**Broadway and Cedar Street, New York**

GEO. F. BLAKE MFG. CO. KNOWLES STEAM PUMP WORKS
BK 104.2


Liberty Mfg. Co. ("Pittsburg"), Pittsburg, Pa.
Linton Machine Co., 26 Cortlandt, New York
Loew Mfg. Co., Cleveland, O.
McGowan, John H. Co., Cincinnati, O.
Manchester Mfg. Co. ("Myers", Heater & Steam Generators), No. Manchester, Ind.
Manthey-Sieker Co. ("Crawley" Heater & Purifier), Milwaukee, Wis.
Mechanics Supply Co. ("Kell"), Pittsburg, Pa.
**MICHELMANN STEEL CONSTRUCTION** Co. (Closed), Quincy, Ill. (See adv. index, end of book)
Miller Metal Work Co., Jersey City, N. J.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index, & branch offices, end of book)
Moffat Feed Water Heater & Purifier Co., Detroit, Mich.
Multicoil Co., 78 Broad, New York
Murray Iron Works, Burlington, Iowa
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
National Boiler Works, 564 Fulton, Chicago, Ill.
National Pipe Bending Co. ("National"), New Haven, Conn.
Nordberg Mfg. Co. ("The Milwaukee"), 476 Virginia, Milwaukee, Wis.
O'Brien, Jno. Boiler Works Co. ("Weaver"), St. Louis, Mo.
Open Coil Heater & Purifier Co. ("Stickle" Heater & Purifier), Indianapolis, Ind.
Patterson, Frank L. & Co. ("Patterson-Berryman"), 26 Cortlandt, New York
**PETROLEUM IRON WORKS CO.** ("Lowe"), Sharon, Pa. (See adv. index & branch offices, end of book)
Phoenix Iron Works Co. ("Munn"), Meadville, Pa.
**PITTSBURGH GAGE & SUPPLY CO.** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Platt Iron Works Co. ("Stillwell" Open & Closed), Dayton, O.
Power Equipment Co. ("Peco"), 1005 Wyandotte, Columbus, O.
Power Plant Specialty Co. ("Vater" Open), Monadnock Blk, Chicago, Ill.
Pratt, Stephen, Boiler Works ("Keller's"), Detroit, Mich.
Robertson, Jas. L. & Son (Inc.), 78 Murray, New York
Russell Engine Co. ("Massillon"), Massillon, Ohio
Schutte & Koerting Co. ("S. & K." Film), 1251 N 12th, Phila., Pa.
Sharon Boiler Works, Sharon, Pa.
Sims Co., Erie, Pa.
Springfield Boiler & Mfg. Co., Springfield, Ill.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Steam Appliance Co. ("Triumph"), Milwaukee, Wis.
Steam Appliance Mfg. Co., Batavia, N. Y.
Stewart Heater Co. (Open & Tubular; also "The Otis"), 40 Norfolk av, Buffalo, N. Y.
Union Iron Works Co., San Francisco, Cal.
Webster Warren & Co. Camden N. J.
Wetherill Robt. & Co. Chester Pa.
Wheeler, C. H. Mfg. Co., Lehigh & N 18th, Phila., Pa.
**WHEELER CONDENSER & ENGI**neering Co. ("Wheeler"), Cartaret, N. J. (See adv. index & branch offices, end of book)
**WHITLOCK COIL PIPE CO. ("Amer**ican Standard," Hartford, Conn. (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.
Wildman Bros., 1280 W 12th, Chicago, Ill.
Williams Tool Co. ("Transverse Current"), Erie, Pa.

## 4601—Heaters (Fire Engine & Engine House)

American Fire Engine Co., Seneca Falls, N. Y.
Wilkinson Foundry & Mfg. Co. ("American", Heater & Purifier), Bridgeport, Pa.

## 4602—Heaters (Fire Place)

Abendroth Bros., 109 Beekman, New York
Bibb, B. C. Stove Co., 107 Light, Baltimore, Md.
Heitland Grate & Mantel Co., Quincy, Ill.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Reading Stove Works, Reading, Pa.
Sanitary Heating Co. ("Grand Solar" Gas Enclosed), 233 37th, Brooklyn, N. Y.
Schneider & Trenkamp Co. ("Reliable"), Cleveland, O.
Sexton, S. B. Stove & Mfg. Co., 7 S Gay, Baltimore, Md.
Spear, James Stove & Heating Co., Phila., Pa.
Superior Mfg. Co. (Inc.) (For Natural or Artificial Gas), Pittsburg, Pa.

## 4603—Heaters (Florists' Wagon)

Quaker City Machine Co., Richmond, Ind.

## 4603a—Heaters (Freight Car)

**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## Heaters (Gas)

(See Stoves & Heaters & Ranges, Gas)

## 4604—Heaters (Gas, for Tailors' Irons)

Clark, Geo. M. & Co. ("Jewel"), 82 Michigan av, Chicago, Ill.

## 4605— Heaters (Gas Jet)

Excello Heat & Light Co., 916 B'way, Brooklyn, N. Y.
Kohler Die & Specialty Co. ("Kost" Floor), 831 W Wash'n blvd, Chicago, Ill.

## 4606— Heaters (Glue)

Advance Machinery Co. ("Wetmore" Electric, Gas, Portable, Oil & Steam), Toledo, O.
American Electrical Heater Co. (Electric), Detroit, Mich.
**BECK, CHAS., 507 Chestnut, Phila.,** Pa. (See adv. index, end of book)
Crestline Mfg. Co., Crestline, O.
Dame & Townsend Co. (Steam Jackets), Cliff & Fulton, New York
Dart, E. M. Mfg. Co., Providence, R. I.
Francis, Chas. E. & Bros., Cincinnati, O.
**GENERAL ELECTRIC CO. (Elec**tric), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
**NASON MFG. CO. (Steam & Gas), 71** Fulton, New York (See adv. index, end of book)
Pancoast, Henry B. & Co. (Steam), 243 S 3d, Phila., Pa.
Stuart & Peterson Co. (Steam), Burlington, N. J.
Towsley, Jno. T. Mfg. Co. (Steam), Cincinnati, O.
Vulcan Copper Works (Steam), Cincinnati, O.
Weatherly Co. (Steam), Grand Rapids, Mich.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## Heaters (Gravel)

(See Sand & Gravel Heaters & Dryers)

## Heaters (Hot Water)

(See Heaters, Steam & Hot Water)

## 4607— Heaters (Ladle)

Hawley Down-Draft Furnace Co. ("Hawley", Burns Oil or Gas), 736 W Monroe, Chicago, Ill.

## 4608—Heaters (Lamp Chimney)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
National Mfg. Co. (Wire), Worcester, Mass.

## Heaters (Locomotive Tire)

(See Furnaces, Tire Heating)

## Heaters (Oil)

(See Stoves & Heaters, Oil)

## 4609— Heaters (Orchard)

Hamilton Reservoir Orchard Heater Co., Grand Junction, Colo.
Ideal Orchard Heater Co., Grand Junction, Colo.
National Orchard Heater Co., Grand Junction, Colo.
Round Crest Orchard Heater Co., Cannon City, Colo.

## 4610—Heaters or Cookers (Meal)

Buckeye Iron & Brass Works, Dayton, O.

## 4611—Heaters (Portable, for Repair Work)

**AMERICAN GAS FURNACE CO., 24** John, New York. (See adv. index, end of book)
**ROCKWELL FURNACE CO. (For** Annealing, Brazing, Heating, etc.), 26 Cortlandt, New York. (See adv. index, end of book)

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## 4612– Heaters (Sad Iron)

Clark, Geo. M. & Co. ("Jewel"), 82 Michigan av, Chicago, Ill.
Chicago Hardware Fdry Co., North Chicago, Ill.
Grinberg Bros. ("Eagle"), 154 South, New York
**KEMP, C. M. CO. ("Climax" Automatic), 401 E Oliver, Baltimore, Md.** (See adv. index, end of book)
Lawrence Stove & Mfg. Co., Buffalo, N. Y.
Odin Stove Mfg. Co., Erie, Pa.
Schneider & Trenkamp Co. ("Reliable"), Cleveland, O.
South Bend Foundry Co., South Bend, Ind.

## 4613–Heaters (Soldering Iron)

American Electrical Heater Co. (Electric), Detroit, Mich.
**AMERICAN GAS FURNACE CO., 24** John, New York. (See adv. index, end of book)
Best, W. N. & Son, 11 B'way, New York
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Gas or Oil Blast), 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 4614–Heaters (Steam & Hot Water)

**Firms that manufacture Hot Water Heaters only are designated thus (Hot Water) between name and address.**
**(See also Heaters, Steam & Hot Water Trade Names; also Heating Contractors, Steam & Hot Water; also Steam Fitters' Supplies)**

### CALIFORNIA.

SAN FRANCISCO—Royal Heating Co., 412 4th

### CONNECTICUT.

HARTFORD—**WHITLOCK COIL PIPE** Co. (Hot Water) (See adv. index, end of book)
NEW HAVEN—National Pipe Bending Co. (Hot Water)
NEW LONDON—Hopson & Chapin Mfg. Co. (Hot Water, also Sectional)
NEW MILFORD—Northrup, Jasper A.
NORWICH—McCrum-Howell Co., Main Office.
Young, John T., Boiler Co. New York
PUTNAM—Putnam Foundry & Machine Co.
SOUTH NORWALK—Argaud Boiler Co.
WILLIMANTIC—Vanderman Mfg. Co.

### ILLINOIS.

AURORA—Aurora Boiler Works (Inc.)
CHICAGO—American Radiator Co. ("Ideal"), 282 Michigan av
**CHICAGO CAR HEATING CO. (Hot Water), Railway Exchange bldg.** (See adv. index, end of book)
Clow, Jas. B. Sons, Franklin & Harrison
**GORTON & LIDGERWOOD CO.,** Fisher bldg. (See adv. index, end of book)
Herbert Boiler Co., 140 Roax
Illinois Malleable Iron Co., 1801 Diversey boul
International Heater Co. (of Utica, N. Y.), 48 Dearborn
**KEWANEE BOILER CO., 35 Michigan.** (See adv. index, end of book)
Kroeschell Bros. Co. (Steel Plate Greenhouse Boilers), 440 W Erie
Reynolds, B. F. & Co. (Combination Warm Air & Hot Water), 414 Dearborn av
Wilks, S. Mfg. Co. (Hot Water), 3517 Shields av
DECATUR—**LEADER IRON WORKS.** (See adv. index, end of book)
EAST ST. LOUIS—East St. Louis Locomotive & Machine Shop Co.
GALVA—Hayes Pump & Planter Co. (Hot Water)
Mulford Heater Co.
GIBSON CITY—Gibson Iron Works
JOLIET—Adams Steel & Wire Works (Hot Water)
KEWANEE—**KEWANEE BOILER CO.** (See adv. index, end of book)
Peters Pump Co.
ROCKFORD—America Heating Co.
WEST CHICAGO—American Heater Mfg. Co.

### INDIANA.

ANDERSON—Anderson Foundry & Mach. W'ks
EVANSVILLE—Grote Mfg. Co. (Sectional)
HAMMOND—United Boiler Heating & Foundry Co.
INDIANAPOLIS—Shirley Radiator & Foundry Co.
TERRE HAUTE—Prox, Frank Co.
WARSAW—Maish Mfg. Co.

### IOWA.

CEDAR RAPIDS—Iowa Radiator Co.
DES MOINES—McDonnell Boiler & Iron Works
MARSHALLTOWN—Shorthill, A. E., Co.
OSKALOOSA—Ideal Heating Co.
Interstate Mfg. Co.
Iowa Mfg. Co.
Seevers Mfg. Co.
RED OAK—Kerrihard Co. (Hot Water)

### MAINE.

PORTLAND—Portland Stove Foundry Co. (Hot Water)

### MARYLAND.

BALTIMORE—Flynn & Emrich, 222 N Holliday
Greenmount Iron & Mfg. Co., 883 Greenmount av
Sheppard, Isaac A. & Co., Eastern av & Chester
Stevenson & Co. (Hot Water), 601 S Caroline
Wood, W. E. Co., 18 N Howard

### MASSACHUSETTS.

BOSTON—Gibby Foundry Co., E. B.
Gurney Heater Mfg. Co., 188 Franklin
Highland Foundry Co., 1341 Columbus av
Lord & Burnham Co. (Hot Water), 819 Tremont bldg
Magee Furnace Co., 32 Union
Pierce, Butler & Pierce Mfg. Co., 61 High
Smith & Anthony Co., 52 Union
Thayer Heater Co., 91 Pearl
Walworth Construction & Supply Co., 100 Pearl
Walker & Pratt Mfg. Co., 33 Union
White, Chas. H. Heating Co. (Hot Water), 22 Bowker
GARDNER—Royal Steam Heater Co.
METHUEN—Sanborn Furnace Co.
SPRINGFIELD—Demarest Heater Co.
TAUNTON—Dighton Foundry Co.
Weir Stove Co.
White-Warner Co.
WATERTOWN—Walker & Pratt Mfg. Co.
WESTFIELD—Brien Heater Co.
Smith, H. B. Co.
WORCESTER—Allen, Wm., Sons Co.
Brunnelle, F. X. Mfg. Co.
Stewart, C., & Son

### MICHIGAN.

DETROIT—Brennan, John & Co.
Detroit Heating & Lighting Co. ("Bolton" Hot Water Heater)
Peninsular Stove Co.
Smith, Peter Heater Co., 328 Rivard
United States Radiator Corp.
GRAND RAPIDS—Rapid Heater Co.
Vulcan Foundry Co. (Hot Water)
JACKSON—Keeley, James J.
KALAMAZOO—Humphrey Co. (Hot Water)
MONROE—Monroe Foundry & Furnace Co. (Steam & Hot Water)
Practical Heater Co. ("Practical" Steam Heater & Ventilator)

### MINNESOTA.

HOPKINS—Moran Boiler Co.
MINNEAPOLIS—Andrews Heating Co. ("Andrews" Steel)
ST. PAUL—South Park Foundry & Machine Co. (Hot Water), Gilfillan blk.

### MISSOURI.

KANSAS CITY—Prest Heating & Foundry Co.

### NEW HAMPSHIRE.

EXETER—Exeter Machine Works

### NEW JERSEY.

BARTLEY—Bartley, R. C., Co.
Bartley, Wm. & Son
BRIDGETON—Cox & Sons Co.
DOVER—Dover Boiler Works
GARWOOD—Garwood Bronze & Iron Works
JERSEY CITY—Weathered Co. ("Weathered" Sectional), Orient & West End avs
NEWARK—Drake, W. H., 36 Clinton
Thatcher Furnace Co., 36 St. Francis
NEW BRUNSWICK—Prospect Boiler Co.
PATERSON—Columbia Heater Co.

### NEW YORK.

ALBANY—Bates, Edw. P. (of Syracuse, N. Y.)
BUFFALO—Buffalo Radiator Co.
Stewart Heater Co. (Exhaust or Live Steam or Both), 40 Norfolk av
ELMIRA—Elmira Heater & Foundry Co.
GENEVA—New York Central Iron Works Co.
Vance Boiler Works
IRVINGTON—Lord & Burnham Co. (Hot Water)

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

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## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Roys System Co., 913 Gates av
Scollay, Jno. A., 74 Myrtle av
Vanoris Water Heater Co., 2713 Church av

### Boroughs of Manhattan & Bronx.

NEW YORK—Abendroth Bros., 109 Beekman
Baker, Smith & Co., 83 W Houston
Boynton Furnace Co., 106 W 37th
Donegan & Swift ("Swift"), 6 Murray
**GODFREY-KEELER CO., 70** Warren (See adv. index, end of book)
**GORTON & LIDGERWOOD CO., 96** Liberty. (See adv. index, end of book)
Hitchings & Co. (Hot Water), 1170 B'way
Johnson & Co., 104 John
Lord & Burnham Co. (Hot Water), 1133 B'way
McCrum-Howell Co., 46 E 20th
Model Heating Co., 76 Centre
**NASON MFG. CO., 71 Fulton.** (See adv. index, end of book)
Page, Wm. H. Boiler Co., 15 Murray
Phelps Brothers Co., 210 Water
Richardson & Boynton Co., 234 Water
Rutzler, E. Co., 404 E 49th
Smith, H. B. Co. (of Westfield, Mass.), 39 E Houston
Thatcher Furnace Co., 110 Beekman

**(End of New York City)**

NORTH TONAWANDA—Niagara Radiator & Boiler Co. (Cast Iron Boilers)
OLEAN—Luther Mfg. Co.
ONEIDA—Warner Safety Boiler Co.
PULASKI—Olmstead,. A. E.
ROCHESTER—Co-operative Foundry Co.
Electric Boiler Co. (Hot Water)
SYRACUSE—Advance Radiator Co.
Bates, Edw. P.
Pierce, Butler & Pierce Mfg. Co. (Modern Improved)
TROY—Aird-Don Co.
Fuller & Warren Co. (Hot Water Only)
Mahony Heating, Ventilating & Blower Co.
Pinkerton, Robert, Green Island
UTICA—Giblin & Co.
Hart & Crouse Co.
International Heater Co.
Utica Heater Co.

## OHIO.

AKRON—Prudential Heating Co. ("Prudential")
XXth Century Heating & Ventilating Co ("XXth Century")
CANTON—McLain, J. H. Co.
Novelty Iron Co.
CINCINNATI—Peck-Hammond Co.
U. S. Heating & Plumbing Co., 744 W Court
Williamson Foundry Co. ("Williamson" Underfeed Boilers)
CLEVELAND—Connelly, D. Boiler Co.
Mouat-Squires Co. (Hot Water), 1246 N 4th
DAYTON—Concord Mfg. Co.
Cooper Heater Co.
Craig-Reynolds Foundry Co.
MARTINS FERRY—Stanton Heater Co.
NORWALK—Star Heating Co. (H. K. Ernsberger, Prop.)
TOLEDO—National Supply Co.
WELLSVILLE—Whitacre, E. G., Boiler Co.
WOOSTER—McClure Co. ("Marshall," "McClure")

## PENNSYLVANIA.

COATESVILLE—Coatesville Boiler Works
COLLEGEVILLE—Steam Fitters Heater Co ("Freed" Steam & Hot Water)
EASTON—Norton. H. M.
ERIE—Rococo Boiler Co.
Sims Co. (Hot Water)
HANOVER—Davidson Heating & Const. Co.
HARRISBURG—Harrisburg Mfg. & Boiler Co.
LANDISVILLE—Monitor Steam Generator Mfg Co. ("Monitor" Wrought Iron Coil Boilers Low Pressure, Steam or Vapor & Hot Water
LANSDALE—Heebner & Sons
MIDDLETOWN—Raymond Mfg. Co.
MORRISTOWN—Gibbons, W. I. (Steam & Hot Water)
PHILADELPHIA—Earley, Wm. (Portable Hot Water & Air & Hot Water & Steam), 1216 Ridge av
Kane, Wm. Mfg. Co., 1915 Adams
Mershon Patent Shaking Grate Co., 1203
Sheppard, Isaac A. & Co., 1801 N 4th
Vapor Heating Co. ("Broomell's" Vapor System), North American bldg
Wood, Jas. P. Heating Co., 39 S 4th
PITTSBURG—American Radiator Co. ("Ideal") (See adv. index, end of book)
Peerless Heater Co.
Pittsburg Water Heater Co.
Ruud Mfg. Co. (Hot Water), 29th & Smallman
POTTSTOWN—Sotter Bros.
READING—O'Reilly & Blatt
Reading Radiator Co.
Reading Stove Works ("Sunshine" Steam & Hot Water)
SCRANTON—Spencer Heater Co. ("Spencer")
TATAMY—Messenger Mfg. Co.
TYRONE—Burley Heater Co.
WILLIAMSPORT—Keeler, E. C.
Williamsport Radiator Co.
YORK—Steacy-Schmidt Mfg. Co.

## RHODE ISLAND.

PROVIDENCE—Allen Fire Dep't Supply Co.
Barstow Stove Co. (Hot Water)

## TENNESSEE.

CHATTANOOGA — Casey - Hedges Co. (Low Pressure Boilers)

## VERMONT.

NORTH BENNINGTON—Simmons, H. C.

## VIRGINIA.

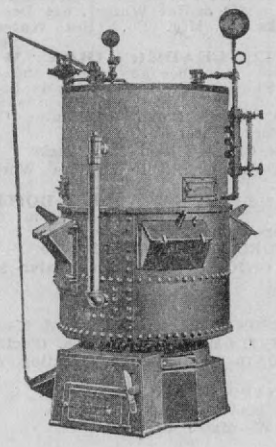
RICHMOND—Coppridge Heater Corp'n

## WISCONSIN.

MANITOWOC—Manitowoc Engineering Works (Low Pressure Boilers)
DE PERE—Lyons Boiler Works (Steel Boilers)
MILWAUKEE—Fuller-Warren Co., 32d cor Wright
Mueller, L. J. Furnace Co.
Schwab, R. J. & Sons Co.
RACINE—Davis Heater Co.
SHEBOYGAN—Optenberg Iron Works Co.


# GUARANTEED

## Boiler Ratings



## The Average Catalog

Says: "We **ONLY** guarantee our boilers against defective castings." **YOU** must guarantee the boiler to your customer. **Why Do You Assume** a responsibility which the manufacturer **REFUSES** to take?

## The Gorton Side Feed Boiler

**is Guaranteed. If The Boiler** does not come up to the guarantee **WE MAKE GOOD.** It is our loss—not yours.

The Gorton Side Feed Boiler is made of steel plate of fifty thousand pounds tensile strength—the same as a power boiler—thus insuring ***safety*** and ***durability***, a very important item to be considered.

*Send for Catalogue with our guarantee and investigate for yourself*

**GORTON & LIDGERWOOD CO.**

**96 Liberty Street**

**New York**


## 4615—Heaters (Steam & Hot Water, Trade Names)

(For address of firms consult Heaters, Steam & Hot Water)
(Heaters Used for Hot Water Solely are so Designated)

"ACME"—Hot Water & Steam—American Radiator Co., Chicago, Ill.
"ACME"—Wm. Bartley & Son, Bartley, N. J.
"ADMIRAL"—Hot Water & Steam—Boynton Furnace Co., New York
"ADVANCE"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"AJAX"—Smith & Thayer Co., Boston, Mass.
"ALLEN"—Wm. Allen & Sons, Worcester, Mass.
"ALL RIGHT"—Wm. H. Page Boiler Co., New York
"AMERICA"—America Heating Co., Rockford, Ill.
"AMERICAN" — Hot Water — Whitlock Coil Pipe Co., Hartford, Conn.
"AMERICAN"—Steam & Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"ANDREWS"—Steam & Hot Water—Andrews Heating Co., Minneapolis, Minn.
"ANDRUS"—Hot Water—Abendroth Bros., New York
"ANNAPOLIS"—Steam—J. H. McLain Co., Canton, O.
"ARCO"—Steam & Hot Water—American Radiator Co., Chicago, Ill.
"ARGAND"—Steam & Hot Water—Argand Boiler Co., South Norwalk, Conn.
"AUBURN"—Steam—Utica Heater Co., Utica, N. Y.
"BAKER, SMITH & CO.'S"—Baker, Smith & Co., New York
"BATES"—Edw. P. Bates, Syracuse, N. Y.
"BAY STATE"—Hot Water & Steam—Barstow Stove Co., Providence, R. I.
"BERMUDA"—Hot Water—Co-Operative Foundry Co., Rochester, N. Y.
"BERNHARD"—Steam & Hot Water—Garwood Bronze & Iron Works, Garwood, N. J.
"BLAST"—J. H. McLain Co., Canton, O.
"BOLTON"—Hot Water—Detroit Heating & Lighting Co., Detroit, Mich.
"BOLTON, G. & J. B. IMPROVED"—Foskett & Bishop Co., New Haven, Conn.
"BOYNTON"—Steam & Hot Water—Boynton Furnace Co., New York
"BRIGHT IDEA"—Gurney Heater Mfg. Co., Boston, Mass.
"BROOMELL'S"—Vapor System—Vapor Heating Co., Phila., Pa.
"BRUNELLE"—F. X, Brunelle, Worcester, Mass.
"BUFFALO"—Steam & Hot Water—Buffalo Radiator Co., Buffalo, N. Y.

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"BURLEY"—Burley Heater Co., Tyrone, Pa.
"BURNHAM"—Lord & Burnham Co., New York
"BURNHAM"—Steam & Hot Water—John Davis Co., Chicago, Ill.
"CALORIC"—Hopson & Chapin Mfg. Co., New London, Conn.
"CAPITAL"—Broomell's Patented Vapor System—Vapor Steam Heating Co., Phila., Pa.
"CAPITOL"—Hot Water—U. S. Radiator Corp., Detroit, Mich.
"CARTON"—International Heater Co., Utica, N. Y.
"CENTURY"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
"CHAMPION"—Thatcher Furnace Co., New York
"CHARMER"—Freed Heater Co., Collegeville, Pa.
"COLUMBIA"—"Hennings"—Hot Water—Columbia Heater Co., Paterson, N. J.
"COLUMBIA"—Vance Boiler Works, Geneva, N. Y.
"COMFORT"—Steam & Hot Water—Thatcher Furnace Co., Newark, N. J.
"COMMONWEALTH"—Hot Water—Walker & Pratt Mfg. Co., Boston, Mass.
"COPPRIDGE"—Hot Water—Coppridge Heater Corp'n, Richmond, Va.
"COTTAGE"—H. B. Smith Co., Westfield, Mass.
"CRAIG"—Steam & Hot Water—Williamsport Radiator Co., Williamsport, Pa.
"CRAWFORD"—Steam & Hot Water—Walker & Pratt Mfg. Co., Boston, Mass.
"CRESCENT"—Gibby Foundry Co., Boston, Mass.
"CROWN GEM"—Johnson & Co., New York
"DACK"—Hot Water—Hayes Pump & Planter Co., Galva, Ill.
"DAVIS"—Steam & Hot Water—Davis Heater Co., Racine, Wis.
"DEFENDER"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
"DEFIANCE"—Gurney Heater Mfg. Co., Boston, Mass.
"DELTA"—Steam & Hot Water—Concord Mfg. Co., Dayton, O.
"D. H. L."—Detroit Heating & Lighting Co., Detroit, Mich.
"DORIC"—Gurney Heater Mfg. Co., Boston, Mass.
"DOUBLE CROWN"—Hot Water—Gurney Heater Mfg. Co., Boston, Mass.
"DRAGON"—Smith & Thayer Co., Boston, Mass.
"DUNNING CLUB"—New York Central Iron Works Co., Geneva, N. Y.
"DUPLEX CROWN"—U. S. Heating & Plbg. Co., Cincinnati, O.
"EARLEY"—Earley, Wm., Phila., Pa.
"ECLIPSE"—John Davis Co., Chicago, Ill.
"ECLIPSE"—Steam—Lyons Boiler Works, De Pere, Wis.
"ECONOMIC"—Prox, Frank Co., Terre Haute, Ind.
"ECONOMY"—International Heater Co., Utica, N. Y.
"ECONOMY"—Steam—Menominee Falls Boiler Works, Menominee Falls, Wis.
"888 COLUMBIAN"—Warner Safety Boiler Co., Nneida, N. Y.
"888 MAMMOTH"—Warner Safety Boiler Co., Oneida, N. Y.
"ELECTRIC"—Hot Water—Electric Boiler Co., Rochester, N. Y.
"EMPIRE"—Steam & Hot Water—Thatcher Furnace Co., New York
"EQUATOR"—Walworth Construction & Supply Co., Boston, Mass.
"EQUATOR"—Nason Mfg. Co., New York
"EQUATOR"—Spencer Heater Co., Scranton, Pa.
"EXETER"—Exeter Machine Works, Boston, Mass.
"FLORAL"—Monroe Foundry & Furnace Co., Monroe, Mich.
"FLORENCE"—Columbia Heating Co., Chicago, Ill.
"FLORIDA"—Steam—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"FLORIDA IMPROVED—Steam—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"400 SERIES"—Gurney Heater Mfg. Co., Boston, Mass.
"F.-W. CO."—Fuller-Warren Co., Milwaukee, Wis.
"FREED"—Hot Water—Freed Heater Co., Collegeville, Pa.
"FURMAN, JR."—U. S. Radiator Corp., Detroit, Mich.
"GALVA"—Hot Water—Mulford Heater Co., Galva, Ill.
"GEM"—Hot Water—Abendroth Bros., New York
"GEM"—Johnson & Co., New York
"GEM TORRID"—W. H. Drake, Newark, N.J.
"GIANT TORRID"—W. H. Drake, Newark, N. J.
"GOLD SECTIONAL"—H. B. Smith & Co., Westfield, Mass.
"GORTON"—Gorton & Lidgerwood Co., New York
"GOTHIC"—Gurney Heater Mfg. Co., Boston, Mass.
"GREAT NORTHERN"—Hot Water & Steam—Kewanee Boiler Co., Kewanee, Ill.
"GREAT WESTERN"—Shorthill, A. E. Co., Marshalltown Iowa
"GROTE"—Sectional—Grote Mfg. Co., Evansville, Ind.
"GULF STREAM"—Hot Water—Nason Mfg. Co., New York
"GUNTHER'S"—Steam & Hot Water—Peter's Pump Co., Kewanee, Ill.
"GURNEY"—Gurney Heater Mfg. Co., Boston, Mass.
"HARVARD"—Hot Water—J. H. McLain Co., Canton, O.
"HAWKEYE OVAL"—Hot Water & Steam—Iowa Mfg. Co., Oscaloosa, Iowa
"HAXTUN"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
"HECLA"—U. S. Radiator Co., Dunkirk, N. Y.
"HENDERSON ORBIS"—Prizer-Painter Stove & Heater Co., Reading, Pa.
"HENDERSON - THERMO"—Prizer-Painter Stove & Heater Co., Reading, Pa.
"HERBERT"—Herbert, M. E. Heater Co., Chicago, Ill.
"HOLLAND"—Hot Water—American Radiator Co., Chicago, Ill.
"HOMESTEAD"—Steam & Hot Water—Smith, H. B., Co., Westfield, Mass.
"HOPSON"—Hopson & Chapin Mfg. Co., New London, Conn.
"HORNET"—Steam & Hot Water—W. H. Page Boiler Co., New York
"HOWARD"—International Heater Co., Utica, N. Y.
"HUB"—Smith & Anthony Co., Boston, Mass.
"HUNTER'S"—Jas. Hunter, Albany, N. Y.
"HY DUTY ECONOMIC"—Steam & Hot Water—Franz Prox Co., Terre Haute, Ind.
"IDEAL"—Steam & Hot Water—American Radiator Co., Chicago, Ill.
"ILLINOIS"—Tank—Illinois Malleable Iron Co., Chicago, Ill.
"IMICO"—Steam & Hot Water—Illinois Malleable Iron Co., Chicago, Ill.
"IMPERIAL"—Steam & Hot Water—Messinger Mfg. Co., Tatamy, Pa.
"IMPERIAL"—Utica Heater Co., Utica, N. Y.
"IMPERIAL SUNSHINE"—Steam & Hot Water—Reading Stove Works, Reading, Pa.
"IMPROVED GIANT"—Steam & Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"INTERNATIONAL"—International Heater Co., Utica, N. Y.
"INTERNATIONAL"—Luther Mfg. Co., Olean, N. Y.
"INVINCIBLE"—Steam—Lyons Boiler Works, De Pere, Wis.
"INVINCIBLE"—John A. Scollay, (Est. of), Brooklyn, N. Y.
"IOWA"—Steam & Hot Water—Seevers Mfg. Co., Oskaloosa, Ia.
"JACKET"—Gurney Heater Mfg. Co., Boston, Mass.
"JUNIOR"—Steam—Herbert Boiler Co., Chicago, Ill.
"KERNAN"—International Heater Co., Utica, N. Y.
"KEWANEE"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
"KEWANEE FIRE BOX"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
"KEYSTONE"—Broomell, Schmidt & Co., Ltd., York, Pa.
"KLYMAX"—Steam & Hot Water—Kellogg-Mackay Co., Chicago, Ill.
"LACKAWANNA"—Spencer Heater Co., Scranton, Pa.
"LANSDALE"—Heebner & Sons, Lansdale, Pa.
"LEADER"—Hot Water—Putnam Foundry & Machine Co., Putnam, Conn.
"LITTLE GIANT"—Giblin & Co., Utica, N. Y.
"LITTLE GIANT"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"LORD & BURNHAM"—Hot Water—Lord & Burnham Co., Irvington, N. Y.
"MAGEE"—Magee Furnace Co., Boston, Mass.
"MAHONY"—Mahony Htg., Vent. & Blower Co., Troy, N. Y.
"MAJESTIC SUNSHINE"—Steam & Hot Water—Reading Stove Works, Reading, Pa.
"MARVEL"—Interstate Mfg. Co., Oskaloosa, Iowa
"MASCOT"—U. S. Radiator Co., Dunkirk, N. Y.
"MENLO"—Steam & Hot Water—H. B. Smith Co., Westfield, Mass.
"MERCER"—H. B. Smith Co., Westfield, Mass.
"MERSHON"—Steam & Hot Water—Mershon Patent Shaking Grate Works, Phila., Pa.
"MILLS"—H. B. Smith Co., Westfield, Mass.
"MILTON"—Steam & Hot Water—Freed Heater Co., Collegeville, Pa.
"MODEL"—Steam—Model Heating Co., Phila., Pa.
"MODERN IMPROVER"—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"MONARCH"—Steam & Hot Water—W. H. Page Boiler Co., New York
"MONARCH SUNSHINE"—Reading Stove Works, Reading Pa.
"MONITOR"—Monitor Steam Generator Mfg. Co., Landisville, Pa.
"MONOGRAM"—Hot Water Heaters—Hopson & Chapin Mfg. Co., New London, Conn.
"MORAN"—Moran Boiler Co., Hopkins, Minn.
"MULFORD"—Mulford Heater Co., Galva, Ill.
"NATIONAL"—Hot Water—National Pipe Bending Co., New Haven, Conn.
"NEW COLUMBIA"—Steam & Hot Water—South Park Fdy. & Mach. Co., St. Paul, Minn.
"NEW DEPARTURE"—Elmira Heater & Foundry Co., Elmira, N. Y.
"NEW ERA"—Steam & Hot Water—Phelps Bros. Co., New York
"NEW ERA"—Steam & Hot Water—Spencer Heater Co., Scranton, Pa.
"NEW LIFE"—Des Moines Mfg. & Supply Co., Des Moines, Ia.
"NEW NATIONAL"—Steam & Hot Water—National Supply Co., Toledo, O.
"NEW PROCESS"—Hot Water—Mouat-Squires Co., Cleveland, O.
"900 SERIES"—Gurney Heater Mfg. Co., Boston, Mass.
"999 COLUMBIAN"—Steam & Hot Water—Warner Safety Boiler Co., Oneida, N. Y.
"999 MAMMOTH"—Steam & Hot Water—Warner Safety Boiler Co., Oneida, N. Y.
"NONPAREIL"—E. Rutzler Co., New York
"NORTON"—Sectional—Steam & Hot Water. H. M. Norton, Easton, Pa.
"NORWICH"—Young, John T., Boiler Co., Norwich, Conn.
"NOVELTY"—Hot Water—Model Heating Co., Phila., Pa.
"O. K."—H. B. Smith Co., Westfield, Mass.
"OHIO"—Hot Water—McLain, J. H. Co., Canton, O.
"ONTARIO"—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"OUR FAVORITE"—R. C. Bartley Co., Bartley, N. J.
"OUR OWN"—Hot Water—Broomell, Schmidt Steacy & Co., York, Pa.
"OUR OWN"—Steam & Hot Water—Novelty Iron Co., Canton, O.
"PAGE SECTIONAL"—W. H. Page Boiler Co., New York
"PALACE KING"—International Heater Co., Utica, N. Y.
"PALACE QUEEN"—International Heater Co., Utica, N. Y.
"PARAGON"—Isaac A. Sheppard & Co., 1801 Philadelphia, Pa.
"PATRIOT"—Boynton Furnace Co., New York
"PEASE ECONOMY"—International Heater Co., Utica, N. Y.
"PEERLESS"—Steam & Hot Water—Peerless Heater Co., Pittsburg, Pa.
"PENINSULAR"—Hot Water—Peninsula Stove Co., Detroit, Mich.
"PENTECOST"—Allen Fire Dept. Supply Co., Providence, R. I.
"PEQUOT"—Hopson & Chapin Mfg. Co., New London, Conn.
"PERFECT"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"PERFECT GEM"—Abendroth Bros. New York
"PHELPS"—Steam & Hot Water—Phelps Bros. Co., New York
"PHELPS' IDEAL"—Ideal Heating Co., Oskaloosa, Ia.
"PLUMMER"—Putnam Foundry & Machine Co., Putnam, Conn.
"POSITIVE—Hot Water—Monitor Steam Generator Mfg. Co., Phila., Pa.
"PREMIER"—Steam & Hot Water—American Radiator Co., Chicago, Ill.
"PRINCETON"—Hot Water—J. H. McLain Co., Canton, O.
"PROGRESS"—Steam & Hot Water—Thatcher Furnace Co., New York
"PRUDENTIAL"—Steam & Hot Water—Prudential Heating Co., Akron, O.

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"PURDUE"—McLain, J. H. Co., Canton, O.
"PUTNAM"—Steam & Hot Water—Putnam Foundry & Machine Co., Putnam, Conn.
"RADI CIRCULATOR"—Warner Safety Boiler Co., Oneida, N. Y.
"RADIUM"—Prox, Frank Co., Terre Haute, Ind.
"RAPID"—Rapid Heater Co., Grand Rapids, Mich.
"RELIANCE"—Steam & Hot Water—Reliance Heater & Supply Co., Pittsburg, Pa.
"RICHARDSON"—Richardson & Boynton Co., New York
"RICHMOND"—Steam & Hot Water—McCrum-Howell Co., New York
"ROBERTS"—Freed Heater Co.,, Collegeville, Pa.
"ROCOCO" — Steam & Hot Water — Rococo Boiler Co., Erie, Pa.
"ROSSMORE"—Steam & Hot Water—Thatcher Furnace Co., New York
"ROYAL"—Hart & Crouse Co., Utica, N. Y.
"ROYAL"—Royal Steam Heater Co., Gardner, Mass.
"ROYAL TORRID"—W. H. Drake, Newark, N. J.
"ROYS"—W. E. Roys, Brooklyn, N. Y.
"RUGBY"—J. H. McLain Co., Canton, O.
"SANBORN"—Steam and Hot Water—Sanborn Furnace Co., Methuen, Mass.
"SCIENTIFIC COTTAGE"—Hot Water—Warner Safety Boiler Co., Oneida, N. Y.
"SCOLLAY"—John A. Scollay (Est. of), Brooklyn, N. Y.
"SEEVERS"—Seevers Mfg. Co., Oskaloosa, Ia.
"SMOKELESS WONDER"—Steam & Hot Water—Ideal Heating Co., Oskaloosa, Ia.
"SHIRLEY"—Steam & Hot Water—Shirley Radiator & Foundry Co., Indianapolis, Ind.
"666 COLUMBIAN"—Warner Safety Boiler Co., Oneida, N. Y.
"SOLAR"—U. S. Radiator Corp., Detroit, Mich.
"SOLEIL"—Steam & Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"SOTTER'S"—Sotter Bros., Pottstown, Pa.
"SPENCE"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse N. Y.
"SPENCER"—Steam & Hot Water—Spencer Heater Co., Scranton, Pa.
"STANDARD"—Giblin & Co., Utica, N. Y.
"STAR"—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
"STAR"—Hot Water—Star Heating Co., Norwalk, O.
"STAR" (Gas Burner)—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
"STERLING"—Hot Water—Thatcher Furnace Co., New York
"SUCKER"—Hot Water—Rollyn Hawkins Co., Indianapolis, Ind.
"SUN"—Raymond Mfg. Co., Middletown, Pa.
"SUNRAY"—U. S. Radiator Corp., Detroit, Mich.
"SUNSHINE"—Prizer-Painter Stove & Heater Co., Reading, Pa.
"SUNSHINE"—Iowa Mfg. Co., Oskaloosa, Ia.
"SUPERIOR"—Utica Heater Co., Utica, N. Y.
"SWIFT"—Steam & Hot Water—Donegan & Swift, New York
"TABASCO"—Water—Kewanee Boiler Co., Kewanee, Ill.
"THATCHER"—Sectional Steam & Hot Water—Thatcher Furnace Co., New York
"THAYER"—Gibby Foundry Co., Boston, Mass
"THE LIFE"—McDonnell Boiler & Iron Works, Des Moines, Ia.
"TIP-TOP"—Thayer Heater Co., Boston, Mass
"TORRID"—W. H. Drake, Newark, N. J.
"TOURAINE"—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"TRIUMPH"—Hot Water—Orr, Painter & Co., Reading, Pa.
"TRIUMPH SERIES"—Steam & Hot Water—Craig-Reynolds Foundry Co., Dayton, O.
"TROPIC" — Hot Water — Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
"TROJAN"—Steam & Hot Water—Aird-Don Co., Troy, N. Y.
"TUBULAR"—J. H. McLain Co., Canton, O.
"XXTH CENTURY"—Steam & Hot Water—XXth Century Heating & Ventilating Co., Akron, O.
"VANCE"—Boiler Works, Geneva, N. Y.
"VANDERMAN"—Vanderman Mfg. Co., Willimantic, Conn.
"VANORIS"—Gas Burner—Vanoris Heating Co. Brooklyn, N. Y.
"VASSAR"—J. H. McLain Co., Canton, O.
"VESTAL SUNSHINE"—Reading Stove Works, Reading, Pa.
"VOLCANO"—Water Tube—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
"VOLUNTEER"—Wm. H. Page Boiler Co., New York
"WALKER"—Steam & Hot Water—Walker & Pratt Mfg. Co., Boston, Mass.
"WEATHERED" — Hot Water — Weathered Co., Jersey City, N. J.
"WEST POINT"—J. H. McLain Co., Canton, O.
"WILKS"—S. Wilks Mfg. Co., Chicago, Ill.
"WILLIAMSON"—Underfeed Steam & Water—Williamson Foundry Co., Cincinnati, O.
"WINCHESTER"—Steam & Hot Water—U. S. Radiator Corp., Detroit, Mich.
"WINTHROP"—Hot Water—Dighton Furnace Co., Taunton, Mass.
"X. L."—H. B. Smith Co., Westfield, Mass.
"YALE"—Hot Water—J. H. McLain Co., Canton, O.
"ZENITH"—Coatesville Boiler Works, Coatesville, Pa.

## 4616—Heaters (Sterilizing, Electric)

Electro Dental Mfg. Co., 1228 Cherry, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Rolfe Electric Co., Rochester, N. Y.

## 4616a—Heaters (Surface)

Iroquois Iron Works, Buffalo, N. Y.

## 4617— Heaters (Tank)

Baker Mfg. Co. ("Monitor"), Evansville, Wis.
Brown Bros. Mfg. Co. ("Nappanee"), Nappanee, Ind.
Bryan Plow Co., Bryan, O.
Bushnell Tank Works (Water), Bushnell, Ill.
Butler Co. ("Hayward," "Hot Stuff," "Klondike," "Twentieth Century,"), Butler, Ind.
Butler Mfg. Co. ("B. M. C.," "New Era"), Kansas City, Mo.
Cedar Rapids Pump Co. ("Acme," "Cedar Rapids"), Cedar Rapids, Ia.
Challenge Co. ("Favorite," "Perfection"), Batavia, Ill.
Chandler Pump Co. ("Hawkeye"), Cedar Rapids, Ia.
Columbian Steel Tank Co., Kansas City, Mo.
Crestline Mfg. Co., Crestline, O.
Dempster Mill Mfg. Co. ("Beatrice"), Beatrice, Neb.
Drew Elevated Carrier Co. ("Grub"), Waterloo, Ia.
Duplex Mfg. Co. ("Badger," "Superior"), Superior, Wis.
**FAIRBANKS, MORSE & CO. (Galvanized Steel)**, 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fetzer, Wm. Co., Springfield, Ill.
Flint & Walling Mfg. Co. ("Hoosier"), Kendallville, Ind.
Flory & Barnhart, Logansport, Ind.
Freeland, B. F. Sons Co. ("Record," "Star"), Sturgis, Mich.
Greenville Implement Co., Greenville, Mich.
Hartford Plow Co., Hartford, Wis.
Heeson Bros. & Co. ("Everlasting"), Tecumseh, Mich.
Heller-Aller Co. ("Napoleon"), Napoleon, O.
Hunt, Helm, Ferris & Co. ("Star," "Red Hot," "Standard," "Harvard," "Cracker Jack," "Perfection," "Black Jack" & "Iron King"), Harvard, Ill.
Kelly Foundry & Machine Co., Goshen, Ind.
Kelly Mfg. Co., Waterloo, Ia.
Kent Mfg. Co., Ft. Atkinson, Wis.
National Steel Tank Co., Niles, Mich.
Nelson Mfg. Co., Deerfield, Wis.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Perkins Windmill Co., Mishawaka, Ind.
Phelps & Bigelow Windmill Co. ("Samson"), Kalamazoo, Mich.
Pittsburg Steel Tank Co. ("Sun"), Pittsburg, Pa.
Prox, Frank Co., Terre Haute, Ind.
Red Cross Mfg. Co., Bluffton, Ind.
Ross Supply Co. ("Rex"), Greenville, O.
Sandwich Mfg. Co., Sandwich, Ill.
Sargent, Osgood & Roundy Co. ("Mudgett"), Randolph, Vt.
Smith & Pomeroy Windmill Co. ("Eureka"), Kalamazoo, Mich.
Swift Mfg. Co., Waterloo, Ia.
U. S. Wind Engine & Pump Co. ("I. X. L."), Batavia, Ill.
Zimmerman Mfg. Co. ("Monarch"), Auburn, Ind.

## Heaters (Tar)

(See Heaters, Asphalt, Pitch & Tar)

## Heaters (Tire)

(See Furnaces, Tire Heating)

## 4618—Heaters (Tuyere Iron)

Gogel Mfg. Co. (Gas, Gasoline or Oil), Toledo, O.
Wainwright & Son, W. W. ("Vulcan" Forges), Connersville, Ind.

## 4619—Heaters (Water, Automatic)

American District Steam Co. (Automatic, for Heating Water Direct from Steam Lines), North Tonawanda, N. Y.
Anderson-McCutchen Co. ("Anderson"), Peekskill, N. Y.
Beilman, W. E. ("Seamans"), Buffalo, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gordon, A. D. ("Duplex," for Domestic Use), Buffalo, N. Y.
Hammond-Hamberger Co. ("Niagara" Automatic), Silver Creek, N. Y.
Hayden & Derby Mfg. Co. ("H. D." Noiseless for Heating Liquids by Direct Steam), 85 Liberty, New York
Pittsburg Water Heater Co., Pittsburg, Pa.
Pompeian Mfg. Co. ("Perfection"), Cleveland, O.
Ruud Mfg. Co. (Gas), 29th & Smallman, Pittsburg, Pa.
Standard Heater Co., Power bldg, Pittsburg, Pa.
Weld, Geo. A. Co. ("Weld"), Boston, Mass.
Wood, John Mfg. Co. ("Electric Weld," Gas), Conshohocken, Pa.

## 4620—Heaters (Water, Bath or Tank)

Abendroth Bros ("York," "Little Gem"), 109 Beekman, New York
Adams Steel & Wire Works, Joliet, Ill.
American Radiator Co. ("Ideal" Tank Heater), 282 Michigan av, Chicago, Ill.
American Stove Co. ("Jewell," "Reliable" and "Monarch"), St. Louis, Mo., & 72 Lake, Chicago, Ill.
Augmore Mfg. Co., Cleveland, O.
Beilman, W. E. ("Seamans" Automatic), Buffalo, N. Y.
Beler Water Heater Co., Pittsburg, Pa.
Challenge Mfg. Co., S Norwalk, Conn.
Clark, Geo. M. & Co., 72 Lake, Chicago, Ill.
Crane, Wm. M. Co. ("Unique" and "Vulcan"), 16 W 32d, New York
**CUTLER-HAMMER MFG. CO. (Electric)**, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dayton Supply Co. ("Dayton Ohio," Instantaneous). Dayton, O.
Detroit Stove Works ("Paragon" Tank), Detroit, Mich.
Eclipse Gas Stove Co. ("Eclipse" Gas), Rockford, Ill.
Eureka Water Heater Co. ("Eureka", Gas Water Heater), 93 Lake, Chicago, Ill.
Eynon-Evans Mfg. Co. ("Noiseless"), 1519 Clearfield, Phila., Pa.
Federal-Huber Co. ("Gegenstrom"), Halsted & Fulton, Chicago, Ill., & 244 5th av, New York
Fuller & Warren Co., Troy, N. Y.
**GILBERT & BARKER MFG. CO.** ("Springfield" Coil Gas), Springfield, Mass. (See adv. index & branch offices, end of book)
**GORTON & LIDGERWOOD CO, 96 Liberty, New York, & Fisher bldg., Chicago, Ill.** (See adv. index, end of book)
Gurney Heater Mfg. Co., 188 Franklin, Boston, Mass.
Haberling, Chas. ("Columbian"), Columbus, O.
Hitchings & Co. (Bath Heaters), 1170 B'way, New York
Hoffman Heater Co. (Gas), Lorain, O.
Hollands Mfg. Co., Erie, Pa.
Homestead Heater & Mfg. Co. ("Homestead"), Homestead, Pa.
Humphrey Co. (Gas, Instantaneous), Kalamazoo, Mich.
Ideal Mfg. Co., Detroit, Mich.
Illinois Malleable Iron Co. ("Illinois" Tank), 1801 Diversey boul, Chicago, Ill.
Instantaneous Water Heating Co. (Instantaneous, "Douglass," "Acme" & "Flush"), Kalamazoo, Mich.
International Heater Co., Utica, N. Y.
Iron Clad Mfg. Co. (Gas & Gasoline), 204 Varet, Brooklyn, N. Y.
Kenwood Automatic Water Heater Co., Milwaukee, Wis.
**KEWANEE BOILER CO. ("Tabasco")**, Kewanee, Ill. (See adv. index & branch offices, end of book)
Knight & Jillson Co. ("Holden," Coal and Gas), Indianapolis, Ind.

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Large, W. H. & Co. ("Success," "Jaxon," "Mascott," Gas & Gasoline), Detroit, Mich.
Lawson Mfg. Co. (Gas), Homestead, Pa.
Lord & Burnham Co. (Bath Heaters), New York
McCrum-Howell Co. ("Richmond"), 103 Park av, New York
McDowell Mfg. Co. ("Gable"), Pittsburg, Pa.
Miller, Wm. Range & Furnace Co., Cincinnati, O.
Milwaukee Gas Stove Co. ("Perfection," Gas), Milwaukee, Wis.
Monarch Water Heater Co. ("Instantaneous"), 1342 River av, Allegheny, Pa.
Mott, J. L. Iron Works ("Sunray" Tank), 118 5th av, New York
Mustee Bros. ("Marvel"), 204 Cedar av., Cleveland, O.
Nonpareil Mfg. Co., 322 Post, San Francisco, Cal.
Novelty Iron Co. ("Our Own," Tank & Laundry, etc.), Canton, O.
Odin Stove Mfg. Co. (Gas), Erie, Pa.
Patterson, T., San Luis Obispo, Cal.
Peerless Heater Co. ("McCartney" Gas or Gasoline), 39 State, Chicago, Ill.
Peerless Stove & Range Co. (Gas), Columbus, Ohio
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Pittsburg Water Heater Co. ("Pittsburg," "Lion"), North Side, Pittsburg, Pa.
Rapid Heater Co. ("Rapid"), Grand Rapids, Mich.
Ribbon Water Heating Co. (Hearst bldg.), San Francisco, Cal.
Rolf-Martin Co. ("Martin"), Fort Wayne, Ind.
Sadtler, J. P. B. ("Heller"), Brooklyn, N. Y.
Schifferle, Fredolin ("Gem"), 1224 S. Broadway, St. Louis, Mo.
Schneider Closet & Heater Co. (Bath), Ann Arbor, Mich.
Schneider & Trenkamp Co., Cleveland, O.
Solar Heater Co. ("Climax-Solar"), Los Angeles, Cal.
Stamford Gas Stove Co. (Gas), Stamford, Conn.
Standard Heater Co. ("Standard" & "Leader" Instantaneous Automatic), Pittsburg, Pa.
Stephenson Mfg. Co. ("Zenith," Automatic Instantaneous), N S, Pittsburg, Pa.
Sterling Instantaneous Water Heater Co., Allegheny, Pa.
Stevenson & Bro. ("Dewey"), New Castle, Pa.
Taylor Burner & Electroplating Co. (Kinyckest"), 804 Duquesneway, Pittsburg, Pa.
Vanoris Water Heater Co., 2713 Church av, Brooklyn, N. Y.
Varwig Mfg. Co. ("Crown" Automatic), Cincinnati, O.
Vogelgesang Furnace Co. ("Prize Cylinder"), Columbus, O.
Walker & Pratt Mfg. Co., 31 Union, Boston, Mass.
Weiskittle, A. & Son Co. ("Fire King" Gas), Aliceanna & Washington, Baltimore, Md.
White Mfg. Co. (Gas), 192 Michigan, Chicago, Ill.
Wilkes, S. Mfg. Co., 35th c Shields av, Chicago, Ill.
Wood, Jno. Mfg Co. ("Daisy" & Electric Weld Combination), Conshohocken, Pa.
Woodworth-Evans Co. ("Economy"), 112 Wood, Pittsburg, Pa.
X Specialty Co. ("X", for Range Boiler), Taunton, Mass.
Youngstown Range & Stove Co., Youngstown, Ohio.

## 4621—Heaters (Water Coil)

Beler Water Heater Co. ("Beler"), Pittsburg, Pa.
Michigan Stove Co. ("Garland" Copper Coil), Detroit, Mich., & Chicago, Ill.
Pittsburg Water Heater Co. (Copper Coil), Pittsburg, Pa.
Ruud Mfg. Co. (Gas), 29th & Smallman, Pittsburg, Pa.
Standard Heater Co., Pittsburg, Pa.

## 4622—Heaters (Water, Electric)

American Electrical Heater Co., Detroit, Mich.
CUTLER-HAMMER MFG. CO. (Instantaneous; also Portable for Buffet, Bar, etc.), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Electro Dental Mfg. Co. (Sterilizers & Water Heaters), 1228 Cherry, Phila., Pa.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
Grinnell Electric Heater Co., Grinnell, Ia.
H-C-K Co. (Water Heaters Only), 30 Greenwich, New York
Meier Dental Mfg. Co. ("Standard" Water Bottle Heaters), St. Louis, Mo.
Simplex Electric Heating Co., Boston, Mass.

## Heaters (Water, Garbage Burning)

(See Garbage Burner, Water Heating)

## 4623—Heaters (Water, Instantaneous)

Acme Mfg. Co. (Gas), Toledo, O.
Adams Steel & Wire Works, Joliet, Ill.
American Stove Co. ("Jewell," "National" Gas), 414 N 6th, St. Louis, Mo.
Beler Water Heater Co. ("Beler"), Pittsburg, Pa.
Clark, Geo. M. & Co. ("Jewel" Gas), 82 Michigan av, Chicago, Ill.
Crane, W. M. Co., 16 W 32d, New York
Detroit Stove Works ("Detroit Jewell"), Detroit, Mich.
GILBERT & BARKER MFG. CO. ("Springfield"), Springfield, Mass. (See adv. index & branch offices, end of book)
H. C. K. Co. ("H. C. K." Electric), 30 Greenwich av, New York
Harris, J. Co. ("Harris"), Cleveland, O.
Hoffman Heater Co. ("Hoffman" Automatic), Lorain, O.
Humphrey Co. ("Crescent" Automatic), Kalamazoo, Mich.
Instantaneous Water Heating Co. ("Louglas," "Acme," "Flush"), Kalamazoo, Mich.
Kenwood Automatic Water Heater Co., Milwaukee, Wis.
Lawler Regulator Co. ("Lawler's"), 473 W B'way, New York
Lawson, L. S. Mfg. Co., Homestead, Pa.
Lipp, Louis Co. ("Harrington" Automatic Gas), Cincinnati, O.
McCormick Mfg. Co. ("Ohio M" Gas or Gasoline), Dayton, O.
McDowell Mfg. Co. ("Gable"), Pittsburg, Pa.
Miller Foundry & Specialty Co. (Automatic), North Tonawanda, N. Y.
Monarch Water Heater Co., 306 Wood, Pittsburg, Pa.
Morrison-Kreeschmer Mfg. Co. ("Morrison"), Dubuque, Iowa
Mustee Bros. ("Marvel"), 204 Cedar, Cleveland, Ohio
Nonpareil Instantaneous Heater Co., San Francisco, Cal.
Peerless Kitchen Boiler & Supply Co., 35 Randolph, Chicago, Ill.
Phila. Stove Co. ("Clover Triumph" Gas), 1625 N 5th, Phila., Pa.
Phillips Gas Stove Works ("Standard"), 420 E. 8th, Cincinnati, Ohio
Pittsburg Water Heater Co. ("Pittsburg" Automatic and "Lion"), North Side, Pittsburg, Pa.
Ruud Mfg. Co. ("Thermal" Automatic Gas), 29th & Smallman, Pittsburg, Pa.
Sadtler, J. P. B. & Co. ("Heller"), 813 S Howard, Baltimore, Md.
Schneider Bath Heater Co., Ann Arbor, Mich.
Schneider & Trenkamp Co., Cleveland, O.
Seamans, Irving M. (Automatic Gas), 353 7th, Buffalo, N. Y.
Standard Heater Co. (Automatic), Pittsburg, Pa.
Stephenson Mfg. Co. ("Zenith Automatic"), N S, Pittsburg, Pa.
Sterling Instantaneous Water Heater Co., Allegheny, Pa.
Varwig Mfg. Co. ("Crown" Automatic), Cincinnati, O.
Weld, Geo. A. Co. ("Sims"), Boston, Mass.
Wilkes, S. Mfg. Co., 53 Clinton, Chicago, Ill.
Wood, John, Mfg. Co. ("Electric Weld" Gas), Conshohocken, Pa.
Worcester Instantaneous Water Heater Co. (And Gas Stove Combined), Worcester, Mass.

## 4624—Heating Apparatus (Hot Blast)

American Blower Co., Detroit, Mich.
Baker, Smith & Co., 81 W Houston, New York
Bayley Mfg. Co., Milwaukee, Wis.
Buffalo Forge Co., Buffalo, N. Y.
Exeter Machine Works, Exeter, N. H.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
Green Fuel Economizer Co., Matteawan, N. Y.
Massachusetts Fan Co., Watertown, Mass.
Miller, J. K. Co., Seattle, Wash.
National Blower Works, 17th & St. Paul av, Milwaukee, Wis.
New York Blower Co., Chicago, Ill.; Factory: Bucyrus, O.
Pacific Blower & Heating Co., San Francisco, Cal.
Prentice, L. H. Co., 34 Sherman, Chicago, Ill.
St. Louis Blower & Heater Co., 1628 N 9th, St. Louis, Mo.
Scott, Robert Engineering & Construction Co., 1716 Ludlow, Philadelphia, Pa.
STURTEWANT, B. F. CO., Hyde Park, Mass. (See adv. index & branch offices, end of book)
Tennessee Blow Pipe Co. (Inc.), Chattanooga, Tenn.

## 4625—Heating Coils (for Steam or Hot Water Heating)

Green Fuel Economizer Co., Matteawan, N. Y.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.

## 4626—Heating Contractors (Steam and Hot Water)

(Firms under this heading do Steam & Hot Water Fitting Only)

### ALABAMA.

MONTGOMERY—Alabama Machinery & Supply Co.

### CALIFORNIA.

LOS ANGELES—Cass-Smurr-Damerel Co.
Holbrook, Merrill & Stetson
Hough, E. D.
Machinery & Electrical Co.
Phillips Heating, Ventilating & Mfg. Co.
OAKLAND—Schmitt, George W. Heating & Ventilating Co.
PASADENA—Nay, E. O. & Co.
SACRAMENTO—Holbrook, Merrill & Stetson
SAN FRANCISCO—California Hydraulic Engineering & Supply Co.
Cronan Cornice Works
Globe Engineering Co. (Inc.)
Holbrook, Merrill & Stetson
Mangrum & Otter (Inc.), 561 Mission
Montague, W. W. & Co., 2270 Folsom
Morgan, W. & Co., Monadnock bldg
Pacific Blower & Heating Co., 3261 17th
Royal Heating Co., 412 4th
Sutton, John G. Co., 229 Minna

### COLORADO.

DENVER—Bradbury Bros.
Michael Heating Co., 502 15th
Pfeiffer, C. P., 433 15th
Reilly, C. J., 1425 Curtis

### CONNECTICUT.

BRIDGEPORT—Wellington & Co., 167 Stratford av
HARTFORD—Barrett & Wall, 40 Allyn
Hartford Heating Co., 278 Asylum
Murray, James T., 251 Asylum
NEW BRITAIN—Aetna Heating Co.
NEW HAVEN—Rourke Bros. Co.
NEW LONDON—Hopson & Chapin Mfg. Co.
NORWICH—Barstow, J. P. & Co.
PUTNAM—Putnam Foundry & Machine Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Biggs Heating Co., 917 H, N. W.
Butler, Chas. J., 913 G, N. W.
Febrey, E. J. & Co., 622 F, N. W.
Hendley, Jas. W., Corcoran bldg
Higgins, Walter, 910 Mass. av, N. W.
Johnson & Morris, 509 11th, N. W.
King Heating Co., 1320 New York av, N. W.
McCuen, Wm. H. & Co., 1024 Connecticut av, N. W.
McCurdy, James P., 1311 G, N. W.
Pierpoint, John A., 310 12th, N. W.
Rees, Cyrus B., 1322 14th, N. W.
Seltzer Heating Co., 1413 G, N. W.
Stansbury, Daniel R., 1304 H, N. W.
Zellers & Co., 1333 14th, N. W.

### GEORGIA.

ATLANTA—Atlanta Steam Heating Co.
Cotton States Belting & Supply Co.
Engelhart Heating Co.
Warlick Sheet Metal Mfg. Co.
MACON—Schofield's, J. S. Sons Co.
SAVANNAH—Rourke, Jno. & Sons
Savannah Blow Pipe Exhaust Co.

### ILLINOIS.

BELLEVILLE—Karr Supply Co.
BLOOMINGTON—American Foundry & Furnace Co. (Hot Air & Steam)
Keiser-Van Leer Co.

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CHICAGO—Arcade Steam Heating Co., 118 W Baker
Smith Co., 83 5th av Kinzie
Baldwin, J. P., 155 Wash
Brady & Co., 129 N Curtis
Conlin, Thos. Plumbing & Heating Co., 3978 Cottage Grove av
Consolidated Engineering Co., 507 W Jackson boul
Cook & Chick Co., 20 E Kinzie
Cragin, M. J., 746 E 43d
Crane, M. H. (Est. of), 188 Madison
Davis Construction Co., 41 Dearborn
Deppman, A. & Co., 21 W Illinois
Devlin, Harry J., 218 E 43d
Dilzer, Fred., 48 Dearborn
Douglass, Thos. J. & Co., 52 Dearborn
Dubsky, J. F. 1506 S Springfield av
Dunbar, J. J. & Co., 331 S Clinton
Evans, Almirall & Co., 98 Jackson boul
Fitch Heating Co., 3738 Cottage Grove av
**Fox, J. L. & Co., 112 Clark**
Gallaher & Speck, 184 Congress
Glennon, Charles & Co., 30 La Salle
Gordon Plumbing & Heating Co., 303 E 47th
Graves, W. B. Co., 156 W Kinzie
Henderson Co., 606 W Randolph
Henning Bros., 3924 Indiana
Henrich, Geo. A., 5711 N Clark
Herbert, M. E. Heating Co., 140 Root
Herlihy, J. J., 616 W Van Buren
Hess Warming & Ventilating Co., 135 La Salle
Ideal Heating Co., 6312 Wentworth av
Kehm Bros. Co., 13 W Kinzie
**Kehm, Jno. R. Co., 443 N State**
Kelander, A. & Co., 126 S Clinton
Kellogg-Mackay Co., 403 W 18th
Kenwood Heating Co., 4713 Cottage Grove av
Kersten, S., 219 E Van Buren
Kirk, Geo. H., 6612 Wentworth
Kroeschell Bros. Co., 460 W Erie
Krueger, A. C., 1829 W 20th
Lamb, F. W. Co., 24 E Kinzie
Lees, Wm., 548 W Washington
Lewis & Kitchen, 1200 Michigan av
Lybrink, Chas., 223 E 47th
Morerant, A., 4318 Cottage Grove av
Mulherin & Co., 516 W 14th pl
National Steam Heating Co., 1130 N Clark
Nilson Bros., 901 Belmont av
Olsen, Peter S. & Co., 78 La Salle
Olson, J. H., 4012 S State
Parke, Wm. T., 3945 W Madison
Patrick Robt. Plumbing Co., 3960 Cottage Grove av
Pearce, W. H. & Co., 269 Dearborn
Peckham, Harry, Jr., 169 N Canal
Phillips, Getschow Co., 130 W Kinzie
Pittsburg Piping & Equipment Co., 150 Pope
Wm. A., 80 Lake Michigan av
Powers Bros. & Co., 1034 E 43d
Prentice, L. H. Co., 24 Sherman
Purves Heating Co., 215 5th av
Ranney, Chas. D., 5139 N Clark
Reger, H. P. & Co., 5512 Lake av
Rigby & Clansky, 545 W Lake
Schweitzer, C. & R., 849 Center
Serson Hardware Co., 109 E 31st
Sherwood, Albert R., 1046 E 43d
Smith, James M., 1534 E 64th
Spear & Hansen Co., 212 N Clinton
Sullivan, William, 34 W Michigan
Swartz & Son, 4748 Austin av
**THOMAS & SMITH (Inc.), 118 N** Carpenter. (See adv. index, end of book)
Walsh, W. J. & Co., 163 W Illinois
Walters, W. D., 7515 Monroe
Webster, Warren & Co. (Webster's System), 98 Jackson blvd
Williams & Co., 205 5th av
ELGIN—Manard, A. P.
GALESBURG—Murphy Bros. & Anderson
JOLIET—Meers, R.
MOLINE—Moline Heating & Construction Co.
OTTAWA—Clegg, Jno. W.
ROCKFORD—America Heating Co.
ROCK ISLAND—Channon & Dufra

## INDIANA.

ANDERSON — Anderson Foundry & Machine
BRAZIL—Crawford & McCrimmon Co. Works
EVANSVILLE—Carmody, J. D.
O'Donnell Steam Heating Co.
FORT WAYNE—National Mill Supply Co.
GREENCASTLE—Greencastle Foundry & Machine Co.
INDIANAPOLIS—Dailey, L. E., 2432 N New Jersey
Johnson, W. H. & Son Co.
Kruse & Dewenter
Mast, George J. Heating Co.
Woolen & Callon

## IOWA.

IOWA CITY—U. S. Heating & Plumbing Co.
WATERLOO—Ideal Epworth Acetylene Co.

## KENTUCKY.

LOUISVILLE—Clegg, F. A. & Co.
NEWPORT—Fennel, George H. & Co.
OWENSBORO—Guenther, W. A. & Sons

## LOUISIANA.

MONROE—Sanders, John G.
NEW ORLEANS—Gibbens & Stream.
Haubtman & Loeb Co. (Ltd.)
Murphy, Jno. H.
Payne & Joubert Machine & Foundry Co.
SHREVEPORT—Vondenbaumen-Eastham Co. (Ltd.)

## MAINE.

PORTLAND—Carman, W. W.
Fels, Arthur B.
Moulton, A. H.

## MARYLAND.

BALTIMORE—Basshor, T. C., Co., 28 Light
Brack, James R., 220 St. Paul
Cahill, W. S. Co.
Calvert Stove & Heating Co., 107 Commerce
Crook-Kries & Co.
Enterprise Steam & Hot Water Heating Co., 107 E Lombard
Evans, David E. & Co., 215 Courtland
Fadum, Fred'k, 408 W German
Flynn & Emrich Co.
Heer Bros. Builders Ex.
Hill, Walter E Co., 203 N Liberty
Hubbard, Alva Co., 409 St. Paul
King, Chas. T. & Co., Charles & German
Myer & Moran, 327 N Holliday
Stebbins, Wallace & Sons, Charles c Lombard
Zies, Chas. & Sons, 316 S Fremont av

## MASSACHUSETTS.

BOSTON—Anthony, Frank P., 36 N Centre
Bay State Heating Co., 55 Portland
Boston Furnace Co., 6 Portland
Bradlee & Chatham Co., 121 Beverly
Braman, Dow & Co., 239 Causeway
Cleghorn Co., 54 Batterymarch
Coffin, Isaac Co., 52 Sudbury
Dodge, Edwin L., 6 Friend
Duncan, Alex. Co., 83 Union
Dwyer, James P., 29 Kneeland
English & Flett (Inc.), 226 Congress
Felton-Turner Heating Co., 34 Warren
Foster Heating Co., 15 Palmer, Rox.
Franklin, A. B., 62 High
Gallison, W. H. Co. (High Pressure), 36
Greene Bros., 32 Broad Oliver
Ingalls & Kendrickson, 80 Sudbury
Johnson, Z. T., 3 India sq
Kohler Furnace & Steam Heating Co., 1326 Columbus av, Rox.
Lovering, Robert H., 24 Warren, Rox.
Lumsden & Van Stone Co., 69 High
Lynch & Woodward, 28 Beach
Merrill, Adam H., 8 Friend
Merrill Co. (High Pressure Piping), 19 Pearl
Montgomery, F. W., 359 Atlantic av
Paul Co., 131 State
Pierce & Cox, 143 Kingston
Rice, F. I. & Bennett, 72 Portland
Richardson & Clement, 20 Union
Ross, Walter B., 163 Oliver
Sanborn, C. H., 18 Post Office sq
Shearman Heating Co., 18 Union
Smith & Anthony Co., 48 Union
Walworth Cons. & Supply Co., 100 Pearl
Webster, Warren & Co., 24 Milk
Whitten & Jackson, 91 High
Whittier Construction Co., 54 Whittier
Woodward, Frank E. & Co., 19 Friend
FAIRHAVEN—Fairhaven Iron Foundry Co.
FALL RIVER—Fall River Steam & Gas Pipe Co.
Kelly, Edward
GLOUCESTER—Stoddard, A. P. & Co.
LOWELL—Middlesex Machine Co.
MILFORD—Damon, J. F.
NEW BEDFORD—Babbitt Steam Specialty Co.
New Bedford Boiler & Machine Co.
SALEM—Patten, Paul B.
SPRINGFIELD—Clapp, Z. C.
Estabrook, George R.
McClean, George H. Co.
Morris, T. J.
Oliver & Howland
**WYCKOFF & LLOYD CO., 19 Worthington.** (See adv. index, end of book)
WORCESTER—Braman, Dow & Co.
Brunelle Boiler Co.
Burleigh, Jno. & Co., 5 Chandler
Burlingame, A. Co.
Callahan, J. W. & Son
Central Supply Co.
Hawes, Edwin Co., 17 Vine
Holmes, M. D. & Sons, Salem sq
Houghton, F. O. Co.
Washburn & Garfield Mfg. Co.

## MICHIGAN.

BAY CITY—Bialy Hardware & Supply Co.
Jennison Hardware Co.
DETROIT—Detroit Heating & Lighting Co., Wight nr Leib
Dodson & Larsen Co., 16 W Atwater
Haman, Geo. L. & Co., 675 Michigan av
Simonds Heating & Specialty Co., 105 Washington av
Turner, W. C., 441 Hubbard av
GRAND RAPIDS—Leitelt, Adolph, Iron Wks
Macauley Bros.
Vulcan Foundry Co.
Weatherly Co.
SAGINAW—Eureka Heating & Ventilating Co.

## MINNESOTA.

DULUTH—American Heating Co.
FERGUS FALLS—Fergus Iron Works
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—Andrews Heating Co., 203 Campbell Heating Co. Hennepin av
Gray, W. I. & Co., 704 S 5th
Hamilton, W. C. T., 2721 Pleasant av
Hasey Heating Co., 310 S 3d av
Knights, W. R., Bryant & 34th
Krenzke, Theo. A., 26 W Lake
Quam, H. J., 1551 E Franklin av
Roberts Heating & Ventilating Co., 413 S Saxton Heating Co., 405 6th av, S 4th
Schupp, Wm. & Co., 616 S 3d av
Smith System Heating Co.
Splann Heating & Ventilating Co., 212 S Tunstead Heating Co., 223 S 6th 4th
ST. PAUL—McGeary, G. M., 163 W 3d
Roberts, John D., 286 E 6th
Sparr, E. E.
Western Machine Mfg. Co., 443 Rosabel
WINONA—Winona Heating & Ventilating Co.

## MISSOURI.

KANSAS CITY—Automatic Heating Co. (Paul System), Scarritt bldg
Kansas City Heating Co.
Lewis & Kitchen, 901 B'way
Martin, Henry, 1411 E 14th
Mueller A. B. Heating Co., 1737 Walnut
Prest, T. H. Supply Co.
ST. LOUIS—Ajax Heating Plumbing Co., 3555 Olive
Ambler, Edwin P., 2822 Lasalle


# WYCKOFF & LLOYD COMPANY

## Heating, Ventilating and Plumbing Contractors

POWER PIPING MILL WORK

SPRINGFIELD, - - MASSACHUSETTS


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Arlington Heating Co., 5367 Easton av
Bradley Heating Co., 3334 Olive
Brockman, J. R. Mfg. Co., 212 Lucas av
Brown Heating Co., 5971 Easton av
Cozzens Heating & Const. Co., 3831 Finney av
Dows Heating & Mfg. Co., 4659 Delmar av
Elliott & Barry Eng. Co., Missouri Trust bldg
Hanley-Casey Co., 1607 Olive
Hayes, John, 806 N 14th
Haynes-Langenberg Mfg. Co., 4057 Forest Park boul
Hughes, Jno. B. Heating Co., 1234 Clark av
Kaufman Heating & Eng. Co., 2320 Olive
Lomasney, Edw. J., 1916 Olive
Maloney, Wm., 7440 Delmar av
Materne Mfg. Co., 13th & Gratiot
Mechanics & Kremer Moon Heating Co.
Mehring, Ernest, 1824 Olive
Modern Heating Co., 2217 Lucas av
Moynihan, C. S., 1814 N Grand av
National Heating Co., 2050 Geyser av
O'Mara Heating Co., Pozzoni bldg
Peters-Eichler Heating Co., 1503 Chestnut
Rapid Heating & Const. Co., 925 Chestnut
St. Louis Blower & Heater Co., 1628 N 9th
Sodeman Heat & Power Co., 1512 Clark av
Stockhoff Supply Co., 107 N Main
Tipton & Mackey Mfg. Co., 4948 Easton av
Urbauer-Atwood Heating Co., 106 S 12th
Western Heating Co., 1025 Old Manchester rd

## NEW HAMPSHIRE.

KEENE—Hubbard, H. W.

## NEW JERSEY.

BARTLEY—Bartley, Wm. & Son
BELLEVILLE—Jacobson, W. H.
BURLINGTON—Lawrence, Eli, Jr.
CAMDEN—Camden Heating Co.
Lounsberry, H. C.
Webster, Warren & Co.
HACKENSACK—Dieger, John
HARRISON—Cooney, John H.
JERSEY CITY—Lutton, Wm. H., Kearney & West Side avs
Payne, John A., 260 Culver av
Schroder, F. P., 307 Grand
NEWARK—Cryer, T. B. & Co., 249 High
Denny Bros. Co., 234 Lincoln av
Kellogg, N. S., 763 Broad
Purdy, L. S., 253 Grafton
Reid, Jno. L., 356 Mulberry
Seymour, David C., 49 Lawrence
Smith & Reilly, 171 Central av
Wolff, Wm. D., 108 S 13th
NEWTON—Watkins, Chas. H.
TOWN OF UNION—Manahan Bros.
Manahan & Darton

## NEW YORK.

ALBANY—Bates, E. P.
Hunter, Jas. Heating & Contracting Co.
Tyler, Fred'k A., 36 Beaver
Warren, James D.
BINGHAMTON—Gaylord & Eitapence Co.
Shapley & Wells
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Burgmaster, Daniel, 85 Del av
Cook & Smith, 199 Pearl
Danforth, Jno. W. Co., 70 Ellicott
Frontier Plumbing & Heating Co., 353 Ellicott
Herlan & Honecker, 128 Northampton
Knepper, Jno. H. & Son (Inc.), 501 Wash'n
Ruckel, J. H. & Son, 81 Main
Russell & Watson, 145 Main
Smith, Jno. D. Co., 12 B'way
Sullivan & Worthington Co., 1531 Main
Tallmage, M. F., 80 Seneca
Waterman-Waterbury Co., White bldg
KINGSTON—Wieber, Henry E. (Est. of)
MATTEAWAN—Green Fuel Economizer Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Allsop Heating Co., 22 Columbia
Apel, Gustav E., 575 4th av pl
Backert & Schroder Steam Htg. Co., 474 B'way
Baerenklau, Henry, 1013 Gates av
Bedford Heating Co., 1233 Atlantic av
Bostwinick, A., 5510 5th av
Byrne & Race, W 17th
Chapman, Hiram W., 446 Adelphi
Curtin, Wm. H. Mfg. Co., 333 Adams
Dayton, W. B. & Son, 291 Schermerhorn
Dayton & Montgomery, 61 Flatbush av
Dean & Robinson, 668 Fulton
Eureka Heating Co., 1153 Gravesend av
Ficken, Wm. H., 567 Rogers av
Foster Bros., 8 Eldert
Graf & Huck Co., 971 DeKalb av
Hall, Neal I., 2071 86th
Heepe, O. & R., 461 7th av
Hinchman, E. G. Co., 675 Nostrand av
Hogle, Albert B., 1510 Flatbush av
Hoppe, Chas. A., 5911 New Utrecht av
Humphrey Co., 1128 Bedford av
Humphrey, R. T., 90 Church av
Ideal Heating Co., 915 Gates av
Jacobs, Geo. P. & Co., 276 S 9th
Johnson & Co., 1477 Flatbush av
Jones, S. Seaman, 237 Tomp av
Kiefer, Harry, 73 Grant
Leach, Henry, 1103 Fulton
Long Island Heating Co., 525 Nostrand av
Moran, R. J., 1262 Fulton
Morse Dry Dock & Repair Co., ft 56th
Murchison, Jno. R., 1101 Flatbush av
Nagel, Herman, 450 Bergen
O'Brien, Edw. J. & Bro. (Inc.), 284 Rodney
Ostheimer, Wm. H. (Inc.), 385 7th av
Philips, Doup & Co., 56 Pearl
Purvis & Shelton, 241 Plymouth
Roys System Co., 913 Gates av
Sanitary Heating Co., 253 37th
Scollay, John A., 76 Myrtle av
Tuttle-Bailey Mfg. Co., 83 N 10th
Vanoris Water Heater Co., 2713 Church av
Vaughn, Michael J., 12 Snyder av
Wilson, Geo. W., 612 Myrtle av

### Boroughs of Manhattan & Bronx.

NEW YORK—Abbott's, M. Sons, 137 8th av
Anderson, Andrew, 181 E 102d
Anderson, Rob't, 277 W 117th
Automatic Heating Co. (Exhaust Steam, etc.), 90 West
Backus Heating Co., 242 4th av
Bailey, Wm. R., 96 Warren
Baker, Smith & Co., 483 W B'way
Baker, Wm. C. Heating & Supply Co. (House, Car Heating, etc.), 143 Liberty
Baldwin, W. J., Jr., Heating Co., 1181 B'way
Baughan, Harry, 168 Leonard
Belmont, Henry, 1438 Sand
Blake & Williams, 24 Barrow
Bonner, Thos. Heating Co., 452 W 41st
Boyd Equipment Co. (Heating & Ventilating), 38 E 22nd
Boyd, Jno. Plumbing & Heating Co., 274 Columbus av
Brower & Co., 333 Hudson
Callahan, Michael J., 354 W 50th
Campbell, T. Wm., 150 Nassau
Carpenter, Allan, 105 N Moore
Clarke's, Jno. D. Son & O'Donnell, 276 Water
Cornell, W. G. Co., 45 E 17th
Crooke Heating & Ventilating Co., 97 Warren
Cryer Return Line System, Fuller bldg
Curran, James Mfg. Co., 512 W 36th
Dewey Engineering Co., 89 Centre
Dobson, Frank, Co., 319 E 53d
Downey, Wm. H., 204 E 22nd
Downs, W. H., 220 W 36th
Duff, P. J. & Sons, 314 E 34th
Earl & Cook Co., 150 Nassau
Eccles, John L. Co., 117 Mercer
Ellison & Co. (Inc.), 217 W 126th
Evans, Almirall & Co., 281 Water
Francis Bros. & Jellett (Inc.), 156 5th av
Gent, John G., 747 Tremont av
Gibbons, Jno. V., 133 Greenwich
Gillis & Geoghegan, 537 W B'way
Graff Furnace Co., 208 Water
Greason Mfg. Co., 108 W 99th
Gunset, Louis E., 3745 3rd av
Hall, B. P., 206 Centre
Hankin, John & Bro., 550 W 25th
Harlem Heating Co., 181 E 102d
Harrison Engineering Co., 42 E 23d
Hassett, R. B. & Son, 100 Maiden lane
Hitchings & Co., 1170 B'way
Hodkinson, S. M., 36 Manhattan av
Hummel, Jas. H., 112 W 32nd
Hunter, Edw., 364 E 146th
Hyer & Hult, 100 W 89th
Jaeger, Ph., Riverdale av & W 260th
Johnson, F. J. & Co., 215 W 125th
Johnson & Co., 104 John
Johnson & Morris, 538 W 23d
Johnston, Frank J., 1918 Daly av
Johnston Heating Co., 131 E 26th
Kelsey Heating Co., 156 5th av
Kirk & Bimpson, 3210 B'way
Kroepke, W. H., 383 College av
Lane, Ira G., 207 E 64th
Lee Heating Co., 3536 B'way
Leslie Bros., 2768 B'way
Lord & Burnham Co., 1133 B'way
MacQuarrie, J. C. Co., 237 W 37th
MacSorley Co., 44 Manhattan
Mason, Wm. E., 416 E 161st
McIntosh, Albert J., 687 Amsterdam av
McKinnon, R. J., 217 W 125th
McKnight, Chauncey P., 401 W 126th
Mead, Josiah H. Co., 242 4th av
Mencher, H. & Co., 1365 Prospect av
Merritt, Jas. H. & Co., 48 Cliff
Miller, Henry, 384 E 144th
Mulhern Steam Heating Co., 103 Park av
Muller & Vultee, 68 Thomas
Murray, Jos. F., Bedford Park boul & Webster av
Olvaney, William J., 177 Christopher
Osborne, Rea & Co., 241 W 41st
Oswald, Edwin H., 81 Fulton
Paul System Co. of New York, Fuller bldg
Peterson, N. F., 299 E 142nd
Prentice, L. H. Co., 114 Liberty
Quay Engineering Co., 1123 B'way
Raisler Heating Co., 1966 B'way
Ransom, Stephen, 402 West
Rice, Daniel J., 103 Park av
Robertson & Conroy, 1644 Lex av
Roddy, Jas. (High & Low Pressure), 9 E 8th
Rutzler, E. Co., 404 E. 49th
Saruya Engineering Co., 320 B'way
Schneider, Chas., 492 E 163d
Sherwood, Lorenzo W., 117 Edgecombe av
Sinnott, Peter, 967 E 165th
Skannel, Elbert, 3281 B'way
Smith, H. B. Co., 39 E Houston
Smith, W. H. Heating Co., 34 W 33d
Suter, G. A. & Co., 112 Wooster
THOMAS & SMITH (Inc.), 432 Hudson. (See adv. index, end of book)
Thompson-Starrett Co., 660 1st av
Thompson & Moran, 508 Canal
Tivy, Lawrence, 13 Platt
Tullis, Jas. D., 1328 B'way
United Engineering & Contracting Co., 17 W 42d
Walker & Chambers, 50 E 20th
Wallace, Geo. J., Jr., 206 E 57th
Wear, Frank M., 306 E 29th
Webster, Warren Co., 200 5th av
Wells & Newton Co., 292 Av. B.
Williams Heating & Plumbing Co., 30 Church
Williams, Roger, 25 W 42nd
Wing, L. J. Mfg. Co. (Ventilating & Combustion Engineers), 90 West
Yockel, J. Henry, 1058 Washington av

### Borough of Queens.

COLLEGE POINT—Reilly Engineering Co.
FLUSHING—White, Wm. H.
LONG ISLAND—Petry, Jno. W.
OZONE PARK—Marisak, Chas.

### Borough of Richmond.

ANNADALE—Morris, Geo. F.
NEW BRIGHTON—Koehler, F. D.
PORT RICHMOND—Rauscher, Fred'k

### (End of New York City)

NORTH TONAWANDA—America District Steam Co. (Holly System of Direct & Exhaust Steam)
ROCHESTER—Reynolds, James Co.
SYRACUSE—Bates, Edw. P.
UTICA—Bates, E. P.
Hart & Crouse Co.
WAVERLY—Denslow Heating Co.
YONKERS—Morris, Thos. Jr.

## NORTH CAROLINA.

CHARLOTTE—American Machine & Mfg. Co.

## NORTH DAKOTA.

CASSELTON—Casselton Hardware Co.
FARGO—Craig Bros.

## OHIO.

AKRON—Prudential Heating Co.
CINCINNATI—Crane, M. H. (Est. of), 326 W Pearl
Geerin Bros. Co., 422 E 8th
Johnston, W. T. Co.
Kearney, John & Co., 328 New
Love, Roth & Nulsen Co.
McGowan, Jno. H. Co., 56 Central av
Nichol, Thos. J. & Co., Pearl c Ludlow
Niemes, Henry, 4112 Hamilton av
Peck, Anderson & Peck Co., Court & Broadway
Peck-Hammond Co., 124 E Pearl
Peck-Williamson Heating & Ventilating Co., 339 W 5th

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Schlemmer, Oliver Co., 633 Walnut
Schultheis, Wm. & Jos. Co., 1533 Freeman
Stewart, S. B., 237 E 3d av
Vance-Lucke Co., 1662 Providence
Webster, Warren & Co., 12 W 7th
CLEVELAND—Bartlett Bros. Co., 8506 Lake av, N W
Becker-Seidel Co., 317 Champlain av, N W
Bowman, E. R., 3211 Lorain
Chafer Co., 431 Champlain av, N W
Crawford, P. R. & Son, Williamson bldg
Crow-Wynn Heating Co., 4070 E 82d, S E
Cushman, Person W., 7516 Decker av, N E
Holbrook, M. G., The Arcade
Mouat-Squires Co., 1246 W 4th, N W
Paul Steam System, Hickox bldg
Pittsburg Piping & Equipment Co., American Trust bldg
Price, Dreher & Welker, 1532 Columbus rd
Roemer Heating Co., 725 St Clair av N E
Van Sickle, W. B. Co., 717 Frankfort av, N W
COLUMBUS—Columbus Heating & Ventilating
Ideal Heating Co. Co., 425 W Town
TOLEDO—American Warming & Ventilating Co., 108 Michigan
Bryce Heating & Ventilating Co., The Spitzer
Burdick, L. F., Co., 2011 Adams
Claflin, Wm. T., 2244 Lawrence av
Hoffman & Harpst Co., 1005 Cherry
Shaw-Kendall Engineering Co., Superior & Swan creek
WASHINGTON C. H.—Swope, Geo. B.

## OREGON.

PORTLAND—Kendall Heating Co.
McPherson, W. G. Co.

## PENNSYLVANIA.

BLAIRSVILLE—Tittle, C. L.
BLUE BALL—Shirk, P. E.
CLEARFIELD—Clearfield Steam Heating Co.
CONSHOHOCKEN—Bate, W. T., & Son
EAST STROUDSBURG—Stauffer, George E.
HANOVER—Davidson Heating & Cons. Co.
HARRISBURG—Campbell, B. W., 19 S River av
Harrisburg Steam Heat & Power Co., 128 Short.
Horn, Alex. D., 1000 Market
HAZLETON—Hazleton Steam Heating Co.
JOHNSTOWN—Ideal Epworth Acetylene Co.
Johnstown Supply House (Ltd.)
Swank Hardware Co.
LANCASTER—Arnold, John L.
Flinn & Breneman
PHILADELPHIA—Anderson, W. M., 108 S 20th
Bachler, C. F., 53 N 7th
Baizley, John Iron Works, 514 S Delaware av
Barclay, Alex M., 113 N 6th
Barnes, Samuel W., & Son, 2104 N 6th
Bowers Bros. & Co. (Heating & Ventilating), Real Estate Trust bldg
Cuff, J. W. & Co., 2027 N 23
Francis Bros. & Jellet (Inc), 315 N 15th
Geiger, August, 118 N 6th
Germantown Steam Co., 515 Pelham rd, Gtn.
Hartman, G. W. Heating Co., 12th & Oxford
Hill, Malcolm W. Co., 1503 Sansom
Hygiene Heating Co., 929 Chestnut
Lampe, Herman F. G., 115 N Front
McClintock, A., 1937 Ridge av
Makin-Kelsey Heating & Mfg. Co., 24 S 7th
Mershon Patent Shaking Grate Co., 1203
Murphy, Harry F. & Co., 25 N 7th Filbert
Nichols, E. M., 212 W Washington sq
Phila. Hdw. & Malleable Iron W'ks, 9th & Jefferson
Phila. Steam Heating Co., 1513 Filbert
Quigley, Jas. J. & Son, 1342 Ridge av
Scott, Robt., Engineering & Construction Co., 1716 Ludlow
Smith, John P., 148 N 7th
Taylor, Frank W. & Son, 259 S 4th
Thompson Bros., 125 W 5th
Trachsel, John C. F., 230 Arch
Tubular Heating & Vent'g Co., 232 Quarry
Webster, Warren & Co., Stephen Girard bldg
West End Heating & Engineering Co., 4641 Lancaster av
Wood, James P. Heating Co., 39 S 4th
PITTSBURG—Allegheny Heating Co., 437 6th
American Warming & Ventilating Co., 541 Wood
Anderson-Darragh Co. (Ltd.), 3206 Penn av
Baker, Smith & Co., Farmer Bank bldg
Bartley-Kennedy Co., Penn. av. & 3rd
Briley, C. A., 1003 Forbes
Burns, Fleming & Co., 815 Forbes
Higgins, G. F. Co., Union Bank bldg
Iron City Heating Co., Lewis bldg
McGinness-Smith Co., 219 1st av
Maginn, P. F. & Co., 1025 Forbes
Mellott Heating Co., 634 Smithfield
Peerles Heater Co., 7 Wood
Pittsburg Heating Co., 8 Wood
Schaffer, John P., 608 Wood
Simpson, W. L., 7107 Idlewill, E. E.
Sloan Heating Co., 6309 Broad
Walker, James J., 310 1st av
POTTSTOWN—Sotter Bros.
POTTSVILLE—Pottsville Steam Heat & Power Co.
Sparks & Parker.
READING—Keystone Heating Co.
Reading Steam Heat & Power Co.
ST. CLAIR—Quirin, Jno. & Bro
SCRANTON—Economy Light, Heat & Power Co.
Gaylord & Butler Co.
Gaylord & Eitapence Co.
Scott Heating Co.
TOWANDA—Humphrey Mfg. Co.
WILKES-BARRE—Backus, Peter B.
WILLIAMSPORT—Keeler, E. Co.
Williamsport Steam Co.
YORK—Motter, Geo. F., & Sons (Inc.)
York Engineering Co.

## RHODE ISLAND.

PROVIDENCE—Allen Fire Dep't Supply Co.
Allen & Reed (Inc.), 172 Dorrance
Cox & Stone, 159 Pine
Fogerty, Wm. J., 26 Peck
General Fire Extinguisher Co., Union Trust bldg
Heath, Wm. G. & Co., 60 Friendship
Putnam Foundry & Machine Corp., 73 S Main
Sampson, J. A., 10 Summer
Taft Machine Co.

## TENNESSEE.

MEMPHIS—Harstick Heating Co.
Memphis Heating Co.
Sodemann Heat & Power Co.
Southern Heating Co., Cotton Exchange
NASHVILLE—Nashville Mach. Co. bldg

## VERMONT.

MONTPELIER—Lane Mfg. Co.
RUTLAND—Holmes Iron Co.

## VIRGINIA.

RICHMOND—Longworth, W. P. & Co.
Morrison Machinery & Supply Co.
Smith-Courtney Co.

## WASHINGTON.

SEATTLE—Adams & Moffat Heating Co.
Brown, S. E. & Co., 1527 3d av
Pacific Heating & Plumbing Co., New York blk
Tay, Geo. H. Co., Empire bldg
SPOKANE—Inland Heating & Ventilating Co.

## WEST VIRGINIA.

WHEELING—Kyle, R. W. Co.

## WISCONSIN.

MADISON—Mueller Co.
MILWAUKEE—American Fdry. & Furnace Co. (Hot Air & Steam), 204 Grand av
Anderson & Farris Heating Co., 463 27th
Bayley Heating Co., 131 Sycamore
Bowers, W. A. Heating Co., 482 Market
Downer Heating & Supply Co., 613 Clybourn
Enterprise Heating Co., 880 Cambridge av
Flaherty, Michael E., 567 E Water
Fox, Chas. J., 616 Grand av
Fritze, Oscar, 1809 Walnut
Groeschel, Jacob H., 1513 Lloyd
Hoye, Thos. E. Heating Co., 509 E Water
Kaufman-Haas Heating Co., 1117 23d
Lade, Rudolph, 1724 Cold Spring av
Lindeman, A. J. & Hoverson Co., 1st & Cleveland avs
Mueller Co., 168 Reed
Netz, Edwin A., 405 3rd
Pfeifer, Mathias, 314 18th
Phipps Heating Co., 90 Oneida
Reich, John, 628 Clark
Reinke & May Heating Co., 1324 Fond du Lac av
Riemer, Louis A., 411 State
Schier, Joseph, 2816 Galena
Smith, Geo. H. Heating Co., 320 Grand av
Strieble, A. J. & Co., 75 W Water
Strothenke, John F., 558 National av
Treis, Nicholas, 214 Harmon
Wegner Bros., 136 Sycamore
Zuehlke Heating Co., 287 4th
SHEBOYGAN—Optenberg Iron Works Co.

## 4627—Heating Devices (Electric)

**CUTLER-HAMMER MFG. CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 4627a—Heating Furnace Shapes

**HARBISON-WALKER REFRACTORIES** Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 4628—Heating (Green House)

Bates, Edw. P., Syracuse, N. Y.
Burmeister, Aug. & Co., Station D, Milwaukee, Wis.
Coldwell-Wilcox Co., Newburgh, N. Y.
Carmody, J. D., Evansville, Ind.
Foskett & Bishop Co., New Haven, Conn.
Hitchings & Co., 1170 B'way, New York
Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.
Kay, W. H. Co., 244 Fulton, New York
Kroeschell Bros. Co., 55 Erie, Chicago
Lamb, F. W. Co., 24 E Kinzie, Chicago, Ill.
Lord & Burnham Co., 1133 B'way, New York
Payne, John A., 260 Culver av., Jersey City, N. J.
Phillips Mfg. Co., West Side av, Jersey City, N. J.
Prox, Frank Co., Terra Taute, Ind.
Reynolds, James Co., 33 Mill, Rochester, N. Y.
Scollay, John A. (Est. of), Brooklyn, N. Y.
Simonds Heating & Special Co. (Vacuum System of Steam), Grand Rapids, Mich.
Thomson, Robert & Co., 6200 Prescott, St. Louis, Mo.

## 4629—Heating Pads (Electric)

**JOHNS, H. W. MANVILLE CO.** ("J-M Electrotherm"), 100 William, New York. (See adv. index & branch offices, end of book)

## 4630—Heating (Paul System of Steam)

Automatic Heating Co., Fisher bldg, Chicago, Ill.
Paul System Co., 131 State, Boston, Mass.

## 4631— Heating (Vacuum)

Bishop-Babcock-Becker Co. ("Reliable", Vacuum Pump), Cleveland, O.
Consolidated Engineering Co. ("Van Auken" System), 507 Jackson boul, Chicago, Ill.
Giant Vacuum Heat & Power Co. ("Little Giant" Vacuum for Heating, Cleaning & Hot Water), Oakland, Cal.
Kauffman Heating & Engineering Co., St. Louis, Mo.
Kellogg-Mackay Co. (Vapor System "K. M. C." Morgan Patents), 403 W 18th, Chicago, Ill.
McGonagle Co., 136 Liberty, New York
Moline Vacuum-Vapor Heating Co. ("Moline"), Moline, Ill.
Monash-Younker Co. ("Monash" Radifier Valve), 1407 W Jackson blvd, Chicago, Ill.
National Vacuum Heating Co. ("Dunham," Vacuo-Vaper System), Marshalltown, Iowa
Ryan, E. J. Danville, Ill.
Simonds Heating & Specialty Co. ("Simonds" Simple & Compound Vacuum Steam Heating System), Grand Rapids, Mich.
Vacuum Heating Co. ("Trane"), Heed bldg., Phila., Pa.
**WYCKOFF & LLOYD CO.** (Contractors), 19 Worthington, Springfield, Mass. (See adv. index, end of book)

## 4632—Heating (Vapor System)

Monat Vapor Heating Co. ("Monat"), Cleveland, O.
Vapor Heating Co., North American bldg, Phila., Pa.

## 4633—Heating & Ventilating Engineers (Consulting)

Adams, Henry, Calvert bldg, Baltimore, Md.
Allen, Albert M. Schofield bldg, Cleveland, O.
Baldwin Engineering Co., 209 W 33d, New York
Barrus, Geo. H., Pemberton bldg, Boston, Mass.
Barwick, Thos. Engineering Co., 21 Park Row, New York
Blood, John, 10 P. O. sq, Boston, Mass.
Bryan, Wm. H., Lincoln Trust bldg, St. Louis, Mo.
Campbell, Chas. A., Herald bldg, Watertown, N. Y.

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Clarkson, Robt. C., Stephen Girard bldg, Philadelphia, Pa.
Clark, MacMullen & Riley, 20 Broad, New York
Darrach, Chas. G., Mount Vernon, Wash.
Edwards, L. T. & Co., 14 S 18th, Phila., Pa.
Eddy Engineering Co. ("Eddy," Automatic), Alpena, Mich.
Furber, Wm. C., 418 Walnut, Phila., Pa.
Haines, W. S. & Co. (Steam Heating), 136 S 4th, Phila., Pa.
Harman, Jacob A., Dime Saving Bk., Peoria, Ill.
Hill, Quick & Allen, Equitable bldg, Baltimore, Md.
**HOWARD & MORSE (Ventilation** Only), 46 Fulton, New York. (See adv. index, end of book)
Kauffman Heating & Engineering Co., St. Louis, Mo.
Kemm, J. Geo., Jr., City Trust bldg, Phila., Pa.
Mackay, W. M., 113 Beekman, New York
Monday, Chas. E. & Co., 1320 Olive, Phila., Pa.
Penna. Engineering Co., 1119 N Howard, Phila., Pa.
Pierce, Richardson & Neiler, Manhattan bldg, Chicago, Ill.
Quay Engineering Co., 1123 B'way, New York
Roberts & Abbott Co. (Inc.), Schofield bldg, Cleveland, O.
Sayward, Jno. F. & Co., 21 W 24th, New York
Serrell & Schenck, Fifth av & 23rd, New York
Stebbings, W. L., Monadnock blk., Chicago, Ill.
Steenson, R. J. & Co., 912 Federal, Allegheny.
Sutton, Frank, 80 B'way, New York Pa.
Thompson-Starrett Co., 660 1st av, New York
Van Winkle, Franklin, 39 Cortlandt, N. Y.
Wing, L. J. Mfg. Co. (Also Contracting), 90 West, New York
Wolcott Henry A., 49 Pearl, Hartford, Conn.
Woodbridge, S. Homer, 420 Boylston, Boston, Mass.

## 4633a—Heating & Ventilating Engineers (Contracting)

(See Heating Contractors, Steam & Hot Water)

## 4634— Heels (Rubber)

B. & R. Rubber Co., North Brookfield, Mass.
Continental Rubber Works, Erie, Pa.

## 4635— Heliostate

Gaertner, Wm. & Co. ("Simplex" Two Mirror), 5349 Lake av, Chicago, Ill.

## 4636—Helmets (Smoke & Ammonia)

Elmer, H. N., Monadnock blk, Chicago, Ill.
National Helmet Co., 39 Park pl, New York
Servus Rescue Equipment Co. ("Eveready"), 8 Johnson, Newark, N. J.

## 4637—Helmets (Sand Blasting)

American Diamond Blast Co., 50 Church, New York
Tilghman-Brooksbank Sand Blast Co., 1126 S 11th, Phila., Pa.

## 4638—Hillers (Corn & Potato)

Champion Potato Machinery Co. ("Champion"), Hammond, Ind.
Connor, J. W. & Son, Orangeville, Pa.

## 4639— Hinge Mfrs.

(Under this Heading see Sub-classifications)
**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Aetna Nut Co., Southington, Conn.
American Foundry & Mfg. Co., St. Louis, Mo.
**ARCADE MFG. CO. (Ornamental** Brass), Freeport Ill. (See adv. index, end of book)
Ashtabula Mfg. Co., Ashtabula, O.
Barrows Lock Co., Lockport, Ill.

BOMMER SPRING HINGES
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Buckley-Hart Mfg. Co., Detroit, Mich.
Chicago Hardware Co., North Chicago, Ill.
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Cleveland Lock Co. ("Hercules" Spring), 1297 E 38th, N E, Cleveland, O.
Coleman Hardware Co. (Spring), 168 Michigan av, Chicago, Ill.
Columbian Hardware Co., Cleveland, O.
Corbin, P. & F., New Britain, Conn.
Cowles, C. & Co. (Inc.), (Malleable & Brass) New Haven, Conn.
Delaware Marine Supply Mfg. Co., Wilmington, Del.
Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.
Devlin, Thos. & Co., 3d & Lehigh av, Phila., Pa.
Eagle Lock Co. (Brass), Terryville, Conn., & 105 Chambers, New York
Edwardsville Brass Co. (Brass), Edwardsville, Ill.
Foss, Benj. F. ("Foss" Adjustable Ball Bearing), Fairfield, Me.
Gibson & Kirk Co., Baltimore, Md.
Gray Iron Foundry So. (Spring & L. & B.), Reading, Pa.
Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
Hale & Benjamin, Greeneld, Mass.
Hassall, John (Fancy Box Hinges, Catches, etc.), 45 Lafayette, New York
Hildenbrandt Automatic Hinge Co., 125 Longworth, Cincinnati, O.
Kohler, F. E. & Co., Canton, O.
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Lawrence Bros., Sterling, Ill.
Lawson Mfg. Co. ("Matchless" Double Acting Floor Spring & Pivot Hinge without Spring), 217 W Huron, Chicago, Ill.
Lockwood Mfg. Co., South Norwalk, Conn.
McKinney Mfg. Co. (Steel Butts, Strap & T.), N S, Pittsburg, Pa.
Merle, Henry J. & Co., 22nd & Fisk, Chicago.
National Mfg. Co., Sterling, Ill. Ill.
New England Lock & Hinge Co. (Brass Finish & Tin), Winchendon, Mass.
Niles Mfg. Co. ("Double Acting" Spring), 16 N Canal, Chicago, Ill.
Norwalk Lock Co., South Norwalk, Conn.
Parker, Chas. Co., Meriden, Conn.
Payson Mfg. Co., 1319 W Jackson boul, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Pullman Mfg. Co., Rochester, N. Y.
Reading Hardware Co., Reading, Pa.
**RICHARDS - WILCOX MFG. CO.** (Heavy), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Root, C. J. (Wrought Brass), Bristol, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Safford & Co., Arlington, Mass.
Sargent & Co., New Haven, Conn.
Schroder, J. B. & Co., Cincinnati, O.
Scovill Mfg. Co. (Brass), Waterbury, Conn.
Sharon Hardware Mfg. Co., Sharon, Pa.
Shelby Spring Hinge Co. (Double Acting Floor), Shelby, O.
Standard Mfg. Co. ("Champion"), Shelby, O.
**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co., Freeport, Ill.
Superior Spring Hinge Co., 152 E Lake, Chicago, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
Tiebout, W. & J. (Cast Brass), 118 Chambers, New York
Union Mfg. Co., New Britain, Conn., & 103 Chambers, New York
Van Wagoner Co. (Ball Bearing), Lima, O.
Wheeling Hinge Co., Wheeling, W. Va.
Whipple, R. P. & Co., 275 Main, Springfield, Mass.
Wilcox, Crittenden & Co. (Galvanized), Middletown, Conn.
Wise, J. B. (Sewing Machine, Closet & Organ), Watertown, N. Y.
Woodruff, W. W. & Sons Co. (Carriage Door etc.), Mount Carmel, Conn.
Wrightsville Hardware Co. (Shutter, Blind & Gate), Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York.

## 4640—Hinges (Automobile Hood & Lamp)

Waterbury Brass Goods (Corp'n), Waterbury, Conn.

## 4641— Hinges (Awning)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.

## 4642—Hinges (Black Flap)

Lawrence Bros. (Wrought Steel), Sterling, Ill.

## 4643—Hinges (Ball-Bearing, Steel Butt)

**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)

## 4644—Hinges (Blind & Shutter)

American Foundry & Mfg. Co., St. Louis, Mo.
Austin & Eddy, 117 Broad, Boston, Mass.
Enterprise Foundry Co., Rochester, N. Y.
Hale & Benjamin, Greenfield, Mass.
Hawkins Car Oiler & Specialty Mfg. Co. ("Hawkins"), Lowell, Mass.
Jaycox Mfg. Co. ("Jaycox," Self-Closing), Fishkill Landing, N. Y.
Lawrence Bros. (Wrought Steel Inside Blind), Sterling, Ill.
McKinney Mfg. Co., N. S., Pittsburg, Pa.
Orr, Galen & Co., Needham, Mass.
Parker, Chas. Co., Meriden, Conn.
**Parker Wire Goods Co. ("Hale" & "Benjamin"** Automatic Blind), Worcester, Mass.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son (Wrought Iron Shutter), 1934 N Front, Phila., Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Stover Mfg. Co., Freeport, Ill.
Susquehanna Casting Co., Wrightsville, Pa.
Whipple, R. P. & Co. (Automobile), Springfield, Mass.
Wrightsville Hardware Co. ("Stengers," "Shepard's" "Niagara," "Clark's" "Buffalo," "Champion," "Steamboat," "Pioneer," "Empire" & Mortise Gravity-Locking Blind Hinges & "O. S.," "Acme" & "Queen City" Shutter Hinges), Wrightsville, Pa.

## 4645— Hinges (Box)

**ACME STEEL GOODS CO. ("Acme" Box** Hinges), Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**CARY MFG. CO. (Crate, Box, etc.), 29** Roosevelt, New York. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Ryan, M. C. Co. ("Ryan", for Fruit & Egg Boxes & Crates, etc.), Phoenix, N. Y.
**STANLEY WORKS ("Atwood,"** Wrought Steel Hinges & Fasts), New Britain, Conn. (See adv. index & branch offices, end of book)

## 4646— Hinges (Butt)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Barrows Lock Co., Lockport, Ill.

BOMMER SPRING HINGES
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Bronson, Homer Co. (Wrought Brass), Beacon Falls, Conn.
Chicago Hardware Co., North Chicago, Ill.
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.
Grammes, L. F. & Sons, Allentown, Pa.
Griffin Mfg. Co. (Steel), Erie, Pa.
Lawrence Bros. (Wrought Steel, Loose Pin, Narrow, Reversible, Surface, etc.), Sterling, Ill.
Lockwood Mfg. Co., South Norwalk, Conn.
McKinney Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa.
National Mfg. Co. (Wrought Steel, Ornamental, Surface, Pin, Narrow. Reversible, etc.), Sterling, Ill.
Norwalk Lock Co., South Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co. (Bronze Cast), Reading, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Racine Metal Stamping Co. ("Racine" Spring), Racine, Wis.
Reading Hardware Co., Reading, Pa.
Root, C. J. (Wrought Brass), Bristol, Conn.
Russell & Erwin Mfg. Co. (Brass, Bronze, etc.), New Britain, Conn.
Sargent & Co., New Haven, Conn.
Schroder, J. B., & Co. (Brass, etc.), 132 E 5th, Cincinnati, O.
Scovill Mfg. Co. (Brass), Waterbury, Conn.

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Sharon Hardware Mfg. Co. (Wrought Steel Door, Cupboard, etc.), Sharon, Pa.
Shelby Spring Hinge Co., Shelby, O.
Stover Mfg. Co., Freeport, Ill.
Waterbury Brass Goods Corporation (Brass), Waterbury, Conn.
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill
Yale & Towne Mfg. Co. (Brass & Bronze), 9 Murray, New York

## 4647—Hinges (Cellar Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

## 4648— Hinges (Chest)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Lawrence Bros. (Wrought Steel), Sterling, Ill.
McKinney Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa.
W. S. Box Lock Co., St. Louis, Mo.

## 4649—Hinges (Cigar Box)

Grammes, L. F. & Sons, Allentown, Pa.
Schoenhut, A. Co., 2215 Adams, Phila., Pa.

## 4650—Hinges (Circular Door & Window)

Hoeg, R. C. & Co., 11th & Catharine, Philadelphia, Pa.

## 4651—Hinges (Closet Seat)

Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.
Chicago Spring Butt Co. (Spring), 334 Union Park pl, Chicago, Ill.
Crescent Mfg. Co., Connellsville, Pa.
Edwardsville Brass Co., Edwardsville, Ill.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Pickering, R. S., Sharon Hill, Pa.
Reading Hardware Co., Reading, Pa.
Springfield Brass Co. (Brass & Nickel), Springfield, O.
**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)
Waterbury Mfg. Co. (Brass), Waterbury, Conn
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wise, J. B., Watertown, N. Y.

## 4652— Hinges (Continuous)

Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
**HAMMACHER SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.

## 4653—Hinges (Corner Strap)

Lawrence Bros., Sterling, Ill.

## 4654— Hinges (End Gate)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
McKinney Mfg. Co., N S, Pittsburg, Pa.

## 4655—Hinges (Engine House)

**BOMMER SPRING HINGES**
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co. (Spring), 334 Union Park pl, Chicago, Ill.

## 4656—Hinges (Factory Door)

Dayton Malleable Iron Co. (Malleable Iron), Dayton, O.

## 4657— Hinges (Fancy Box)

Grammes, L. F. & Sons, Allentown, Pa.
Hassall, John (Also Catchers & Trimmings), 45 Lafayette, New York

## 4658— Hinges (Fire Shutter)

Zimmerman, G. F. S. & Co. ("Zimmerman"), Frederick, Md.

## 4659— Hinges (Floor)

**BOMMER SPRING HINGES**
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Champion Safety Lock Co. ("Champion" Ball Bearing), Geneva, O.
Chicago Spring Butt Co. (Ball Bearing, Double Acting), 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co. ("Columbian"), Cleveland, O. & 168 Church, New York
Lawson Mfg. Co. ("Matchless" Double Acting Ball Bearing Spring, etc.), 217 W Huron, Chicago, Ill.
Racine Metal Stamping Co. ("Racine" Surface Floor Spring & Cup Floor Spring), Racine, Wis.
Prouty, T. C. Co. ("Prouty", Adjustable Double Acting Ball & Boiler Bearing), Albion, Mich.
Russell & Erwin Mfg. Co. ("Russwin" Double Acting Spring), New Britain, Conn.
Shelby Spring Hinge Co. ("Shelby," "Chief" Double Acting Spring, Ball Bearing, etc.), Shelby, O.
Standard Mfg. Co. ("Standard"), Shelby, O.
Stover Mfg. Co. ("New Ideal" Double Acting), Freeport, Ill.
Superior Spring Hinge Co. ("Superior" Surface, Spring), 152 E Lake, Chicago, Ill.

## 4660— Hinges (Gate)

**ACME STEEL GOODS CO. (Wrought** Steel), Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
American Foundry & Mfg. Co., St. Louis, Mo.
Griffin Mfg. Co. (End Gate), Erie, Pa.
Hardware & Woodenware Mfg. Co. (Self-Closing), 693 B'way, New York
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Lawrence Bros. (End Gate), Sterling, Ill.
Parker, Chas. Co., Meriden, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
Reading Hardware Co., Reading, Pa.
**RICHARDS - WILCOX MFG. CO.** (Double Acting, Steel, etc.), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Susquehanna Casting Co., Wrightsville, Pa.
Wrightsville Hardware Co. ("Shepherd's" or "Clark's" Reversible & Self-Closing Hinges & Latches), Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 4661—Hinges (Green House Sash)

Carmody, J. D. (Indestructible), Evansville, Ind.

## 4662— Hinges (Invisible)

Columbian Hardware Co. ("Columbian"), Cleveland, O. & 168 Church, New York
Soss Mfg. Co. ("Soss"), 435 Atlantic av, Brooklyn, N. Y.

## 4663— Hinges (Mirror)

Eagle Lock Co., Terryville, Conn.
Independent Steel Co. of America, Kenova, W. Va.
Spengler Bros. Co. (Swinging, Double Brass), Rockford, Ill.

## 4664— Hinges (Office Gate)

**BOMMER SPRING HINGES**
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co. ("Gem" & "Oxford"), Cleveland, O.
Griffin Mfg. Co., Erie, Pa.

## 4665—Hinges (Piano & Organ)

Bronson, Homer D. Co. (Brass), Beacon Falls, Conn.
**HAMMACHER SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Scovill Mfg. Co., Waterbury, Conn.
Wise, J. B., Watertown, N. Y.

## 4666— Hinges (Plate)

American Ring Co., Waterbury, Conn.
Hager, C. & Sons Hinge Mfg. Co., 242 De Kalb, St. Louis, Mo.
Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

## 4667—Hinges (Refrigerator)

Brass Goods Mfg. Co., Nevin cor. Union, Brooklyn, N. Y.
Lawrence Bros. (Wrought Steel), Sterling, Ill.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
**STANLEY WORKS (Wrought Brass,** Plain & Corrugated & Wrought Steel Ball Bearing), New Britain, Conn. (See adv. index & branch offices, end of book)
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

## 4668—Hinges (Screen Door)

**ACME STEEL GOODS CO. (Wrought** Steel), Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**ARCADE MFG. CO. ("A-C" & "Arcade"),** Freeport, Ill. (See adv. index, end of book)

**BOMMER SPRING HINGES**
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Champion Safety Lock Co. ("Lucky", Loose Pin), Geneva, Ohio
Chicago Spring Butt Co. (Spring), 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co. ("Columbian," "Cloverleaf," "Columbia" & "Acorn"), Cleveland, O., & 168 Church, New York
Diehl Novelty Co. ("Diehl", Sheboygan, Wis.
Hoffman Hinge & Foundry Co., Hubbard, Porter & Burlington Sts, Cleveland, O.
Lanz, M. & Sons, Pittsburg Pa.
Lawrence Bros (Steel), Sterling, Ill.
National Mfg. Co., Sterling, Ill.
Oliver Iron & Steel Co. (All Steel), Pittsburg, Pa.
Prouty, T. C. Co. (Ltd.), Albion Mich.
Racine Metal Stamping Co. ("Racine"), Racine, Wis.
Russell & Erwin Mfg. Co., New Britain, Conn.
Schatt & Morgan Cutlery Co., Titusville, Pa.
Sharon Hardware Mfg. Co. (All Steel), Sharon, Pa.
Shelby Spring Hinge Co. ("Buckeye", "Shelby" Cast), Shelby, O.
Stover Mfg. Co., Freeport, Ill.
Van Wagoner Co., Lima, O.

## 4668a—Hinges (Screen Door, Detachable)

**BOMMER SPRING HINGES**
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

## 4668b—Hinges (Screen Door, Holdback)

**BOMMER SPRING HINGES**
257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Stover Mfg. Co. ("Ideal"), Freeport, Ill.

## 4669—Hinges (Screw Hook & Eye)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
McKinney Mfg. Co., N S, Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.

## 4670—Hinges (Screw, Hook & Strap)

Lanz, M & Sons, Pittsburg, Pa.
Lawrence Bros., Sterling, Ill.
McKinney Mfg. Co., N S, Pittsburg, Pa.
National Mfg. Co. (Wrought Steel), Sterling, Ill.
Sharon Hardware Mfg. Co., Sharon, Pa.

## 4671—Hinges (Sewing Machine)

Wise, J. B., Watertown, N. Y.

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# THE STANLEY WORKS

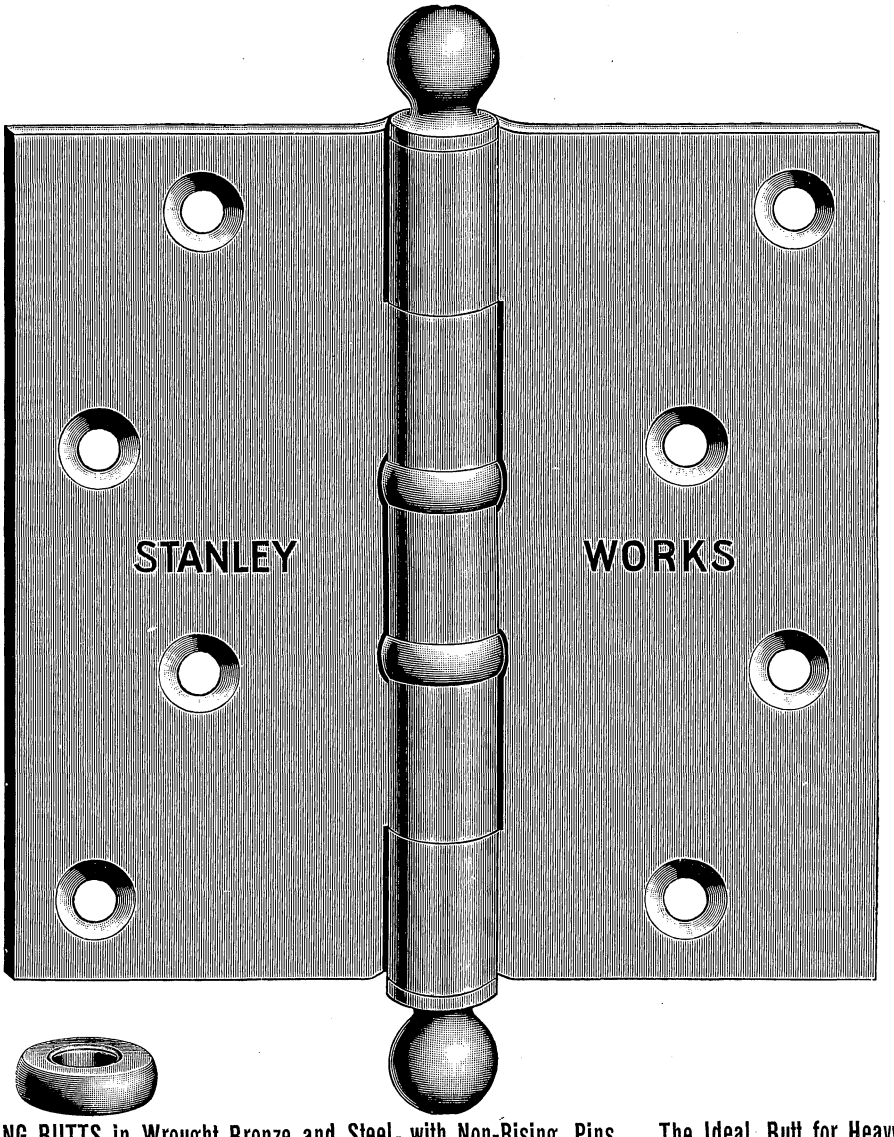
NEW BRITAIN, CONN.

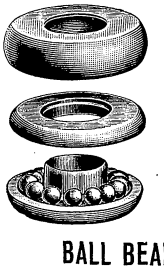
100 Lafayette St., New York and 73 East Lake St., Chicago, Ill.

MAKERS OF

**WROUGHT STEEL BUTTS, DOOR BOLTS, HINGES, ETC.**

**ALSO COLD ROLLED STRIP STEEL FOR ALL PURPOSES**





**BALL BEARING BUTTS in Wrought Bronze and Steel, with Non-Rising Pins. The Ideal Butt for Heavy Doors.**

No friction in the joint, consequently no wear. No oil or grease to disfigure finishes and gather dust.
The washer is so constructed that it will not come apart. No creaking of door. Low Cost.

CORRESPONDENCE FROM ARCHITECTS SOLICITED.

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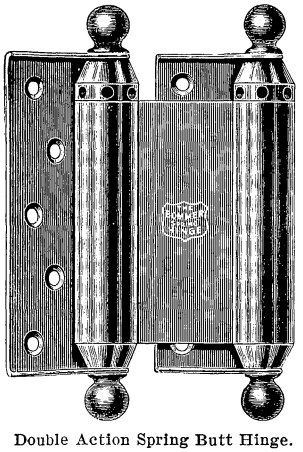
# BOMMER SPRING HINGES

## ARE QUALITY GOODS

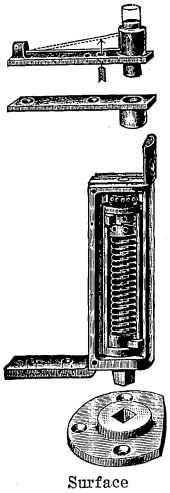
## But Cost No More than the Substitutes

**Gold Medals**

**St. Louis, 1904.**
**Buffalo, 1901. Omaha, 1898.**
**Paris, 1900. Liège, 1905.**



Double Action Spring Butt Hinge.

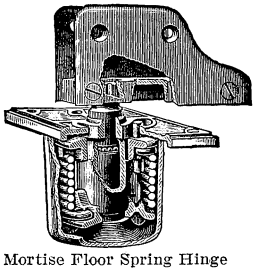


Surface Floor Spring Hinge For Fastening to Surface of Floor

Trade Mark

THE BOMMER SPRING HINGE

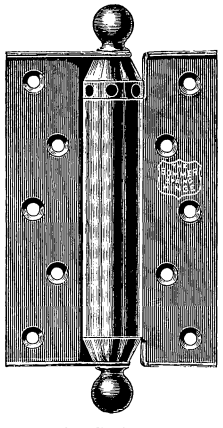
Reg. U. S. Pat. Off.



Mortise Floor Spring Hinge For Mortising Into Floor.

**Our Trade Mark**

**on a Spring Hinge means the best that can be made.**



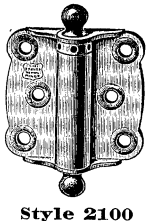
Single Action Spring Butt Hinge.

**Bommer Spring Hinges last as long as the door. They are made of heavier metal than others. The springs never go lame, being made of tempered steel wire in our own factory. The bearings are solid steel. Every pair of Bommer Spring Hinges are guaranteed to give satisfaction.**

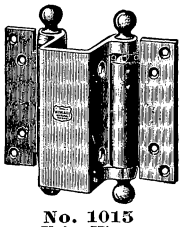
## BOMMER LAVATORY SPRING HINGES



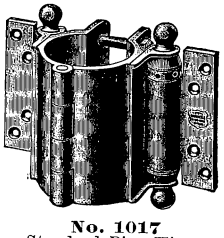
**No. 1051**
Strike



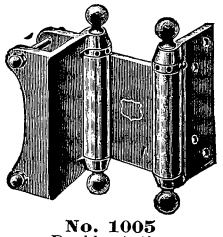
**Style 2100**
Screen Door Hinge



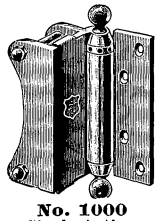
**No. 1015**
Yoke Hinge



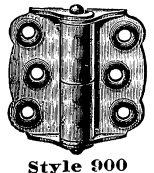
**No. 1017**
Standard Pipe Hinge



**No. 1005**
Double Action



**No. 1000**
Single Action



**Style 900**
Screen Door Hinge

Your Hardware Merchant Can Supply Them.

**BOMMER BROTHERS, Mfrs., Brooklyn, N. Y.**

EST. 1876

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## 4672– Hinges (Showcase)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Shelby Spring Hinge Co., Shelby, O.
**VOELKNER & HARRY MANUFACTURING** Co. (With or Without Spring), 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

## Hinges (Shutter)

(See Hinges, Blind & Shutter)

## 4673–Hinges (Spring, Bank & Office Railing)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago. Ill.
Orr & Lockett Hardware Co., 50 State, Chicago, Ill.

## 4674–Hinges (Spring Butt)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co. (Single, Double, Triplex Acting), 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co. ("American," "Gem," "Oxford" & "Columbian"), Cleveland, O., & 168 Church, New York
Shelby Spring Hinge Co., Shelby, O.
Van Wagoner Co. (Ball Bearing, Wrought Steel), Lima, O.

## 4675–Hinges (Spring, Closet Door)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago. Ill.
Edwardsville Brass Co. (Double Acting Spring), Edwardsville, Ill.
Frost Mfg. Co. (Cast & Sheet Metal), Kenosha, Wis.
Niles Mfg. Co. (Double Acting), 216 S Jefferson, Chicago, Ill.

## 4676–Hinges (Spring Door)

**ARCADE MFG. CO. ("Arcade")**, Freeport, Ill. (See adv. index, end of book)
Bardsley, Joseph, 149 Baxter, New York

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co. (Spring), 334 Union Park pl, Chicago, Ill.
Cleveland Lock Co., 1297 E 38th, N E, Cleveland, O.
Columbian Hardware Co. ("American," "Gem," "Oxford" & "Columbian"), Cleveland, O., & 168 Church, New York
Joliet Spring Hinge Co., Joliet, Ill.
Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Racine Metal Stamping Co. ("Racine"), Racine, Wis.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Scovill Mfg. Co. (Brass), Waterbury, Conn.
Shelby Spring Hinge Co., Shelby, O.
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Superior Spring Hinge Co. (Ball Bearing), 152 E Lake, Chicago, Ill.
Van Wagoner Co. (Ball Bearing), Lima, O.

## 4677–Hinges (Spring, Double Acting)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Merle, Henry J. & Co., 22d & Fisk, Chicago, Ill.
Niles Mfg Co., 216 S Jefferson, Chicago, Ill.
Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.
Penn Hardware Co., Reading, Pa.
Racine Metal Stamping Co. ("Racine"), Racine, Wis.
**RICHARDS - WILCOX MFG. CO.** "Richards" Ball Bearing Surface), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Shelby Spring Hinge Co., Shelby, O.
Stover Mfg. Co. ("New Ideal," Jaw Hinges), Freeport, Ill.
Superior Spring Hinge Co., 152 E Lake, Chicago, Ill.
Western Brass Mfg. Works (Cast Brass, Nickel Plated, etc.), 21st & Rockwell, Chicago, Ill.

## 4678–Hinges (Spring, for Interior Marble Work)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

## 4679–Hinges (Spring, Iron Railing Makers')

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago. Ill.
Columbian Hardware Co., Cleveland, O., & 168 Church, New York

## 4680–Hinges (Spring, Marble Work)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co. ("American," "Gem," "Oxford" & "Columbian"), Cleveland, O.

## 4680a–Hinges (Spring, Palace Railway Car)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

## 4681–Hinges (Spring, Safe Makers')

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co., Cleveland, O., & 168 Church, New York

## 4682–Hinges (Spring, Wrought Brass & Bronze Door)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co., Cleveland, O.

## 4683–Hinges (Spring, Wrought Steel)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.
Columbian Hardware Co., Cleveland, O.
Griffin Mfg. Co., Erie, Pa.
Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
Lawrence Bros., Sterling, Ill.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Van Wagoner Co. (Ball Bearing), Lima, O.

## Hinges Storm Window)

(See Hangers, Storm Sash & Screen)

## 4684– Hinges (Strap & T)

**ACME STEEL GOODS CO. ("Acme"** Wrought Steel), Archer & Farrell, Chicago, Ill. (See adv. index & branch offices, end
Aetna Nut Co., Southington, Conn. of book)
American Shovel & Stamping Co., Lorain, O.
Godscharles, F. A. Co., Milton, Pa.
Griffin Mfg. Co. (Pressed Steel), Erie, Pa.
Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
Kohler, F. E. & Co., Canton, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Lawrence Bros. (Steel), Sterling, Ill.
McKinney Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa.
Maryland Hinge Co., Baltimore, Md.
National Mfg. Co. (Wrought Steel), Sterling, Ill.
Oliver Iron & Steel Co. (Strap Only), Pittsburg, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
**STANLEY WORKS (Wrought Steel,** Plain & Corrugated), New Britain, Conn., & 79 Chambers, New York. (See adv index & branch offices, end of book)
U. S. Box Lock Co. (Strap), St. Louis, Mo.
Wilcox, Crittenden & Co., Middletown, Conn.
Zimmerman, H. & Co. ("Zimmerman's Anti-Sag" Strap), Fremont, O.

## 4685– Hinges (Surface)

Lawrence Bros. (Ornamental), Sterling, Ill.
National Mfg. Co. (Ornamental), Sterling, Ill.
Shelby Spring Hinge Co., Shelby, O.

## 4685a–Hinges (Surface Floor)

**BOMMER SPRING HINGES**

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

## 4686– Hinges (Table)

Lawrence Bros. (Wrought Steel), Sterling, Ill.
McKinney Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa.

## 4687– Hinges (Trunk)

**STANLEY WORKS (Wrought), New** Britain, Conn. (See adv. index & branch offices, end of book)

## 4688–Hinges (Wash Tray)

Lawrence Bros. (Wrought Steel), Sterling, Ill.
McKinney Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.

## 4689–Hinges (Washing Machine)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)

## 4690 Hinges (Wire)

**ACME STEEL GOODS CO. ("Acme"),** Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Pickering, R. S. (Box), Sharon Hill, Pa.

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Reading Hardware Co., Reading, Pa.
Smith, F. P. & Co. (Wire Box), Sharon Hill, Pa.
Springfield Brass Co. (Brass & Nickel Plate), Springfield, Mass.

## 4691—Hinges (Wrought Brass, Corrugated)

**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)

## 4692—Hinges (Wrought Steel Butt)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)




257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park, Chicago, Ill.
Columbian Hardware Co., Cleveland, O.
Grammes, L. F. & Son, Allentown, Pa.
Lawrence Bros., Sterling, Ill.
McKinney Mfg. Co., Pittsburg, Pa.
National Mfg. Co., Sterling, Ill.
**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)

## 4693—Hitchings (Mine Car)

Eagle Foundry & Machine Co., Fort Scott, Kan.
Harris, Wm. & Son Co., N S, Pittsburg, Pa.
Irwin Foundry & Mine Car Co., Irwin, Pa.
**MACOMBER & WHYTE ROPE CO.** ("Monarch"), 507 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)
Nicholson & Co., Rankin, Pa.
Niles Mine & Mill Supply Co. (Clevis & Hook), Cleveland, O., & Niles, O.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Standard Chain Co., Pittsburg, Pa.
Stine, S. B., Osceola Mills, Pa.
**UNION ELEVATOR & MACHINE CO.** (Chain & Clevis), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Valley Forging Co., Verona, Pa.

## 4694— Hitchings (Screw)

Oliver Iron & Steel Co., Pittsburg, Pa.

## 4695— Hobs (Bolt Cutter)

Card, S. W. Mfg. Co., Mansfield, Mass.
Ellison Bros., Frankford, Philadelphia, Pa.
**HELWIG MFG. CO., National German-American Bank bldg, St. Paul, Minn.** (See adv. index, end of book)
Putnam Machine Co., Fitchburg, Mass.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch branch offices, end of book)

## 4696— Hobs (Die)

Brubaker, W. L. & Bros. (Solid), Millersburg, Pa.
Carpenter, J. M., Tap & Die Co. (Solid, Open Sellers), Pawtucket, R. I.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 4697— Hobs (Worm)

Barber-Colman Co. (For Spur Gears & Worm Wheels), Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
**CARPENTER-TEW GEAR CO., Bush** Terminal, 58 35th, Brooklyn, N. Y. (See adv. index, end of book)
Gould & Eberhardt, Newark, N. J.
**NATIONAL TOOL CO. (Also Spur** Gear), Cleveland, O. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Union Twist Drill Co., Athol, Mass.

## Hod Hoisting Machines

(See Elevators, Hod)

## 4698— Hods (Coal)

**Buffalo Mfg. Co., Buffalo, N. Y.**
Central Stamping Co. ("Columbia," "Central"), 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Kreamer, A., 307 Kent av, Brooklyn, N. Y.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk," Aluminum Galvanized), Canandaigua, N. Y.
National Enameling & Stamping Co., 374 B'way, New York
New England Enameling Co. (Galvanized Iron), Middletown, Conn.
Novelty Stamping Co., Bellaire, O.
Pfiefer, Jno. & Co., 224 Race, Philadelphia, Pa.
Republic Metalware Co., Buffalo, N. Y.
Rochester Stamping Co., Rochester, N. Y.
Shapiro, H., 246 Cherry, New York
Victor Stamping Co. ("Victor" Galvanized & Japanned), Twightwee, Ohio
Wheeling Corrugating Co., Wheeling, W. Va.

## 4699—Hods (Mortar & Brick)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Cheseboro, Whitman Co., 1167 1st av, New York
Cleveland Wire Spring Co. ("Iron Clad," "Never Drip" & "Hercules" Steel), Cleveland, O.
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Johnson & Halvey, 641 Water, New York
Lansing Wheelbarrow Co., Lansing, Mich.
Scranton Mfg. Co. (Steel), Scranton, Pa.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 4700— Hoe Mfrs.

American Axe & Tool Co. (Grub), Glassport, Pa.
American Fork & Hoe Co. (Boys, Field, Garden, Mortar Mixer, Ladies' Cultivator, Planters, Onion Weeders, Turnip Weeding, etc.), Cleveland, O.
American Shovel & Stamping Co., Lorain, O.
Bradley's, C. W. Sons (Inc.) (Cranberry, Shuffle, Garden Seed & Grub), Westport, Conn.
Chantrell Tool Co. (Garden Hoes), Reading, Pa.
Collins Co., Collinsville, Conn.
Cronk & Carrier Mfg. Co. (Weeding & Garden), Elmira, N. Y.
Derby & Ball, Bellows Falls, Vt.
Hussey-Binns Shovel Co. (Crucible Cast Steel Scuffle), Pittsburg, Pa.
Hussey Plow Co., No. Berwick, Me.
Iowa Farming Tool Co., Fort Madison, Iowa
Iron City Tool Works (Grub, Palmetto, etc.) 32d & Smallman, Pittsburg, Pa.
Jelliff, C. O. Mfg. Corp. (Onion), Southport, Conn.
Klein-Logan Co. (Grub, Palmetto, etc.), Pittsburg, Pa.
Kohler, F. E. & Co. (Garden, Field & Weed), Canton, O.
Mack & Co. (Grub, Grape, etc.), Rochester, N. Y.
Maynard, C. A. (Planters), Northampton, Mass.
North Wayne Tool Co. (The C. C. Brooks), Hollowell, Me.
Owensboro Shovel & Tool Co. (Goose Neck Cotton, Planter, Garden, Southern Meadow, etc.), Owensboro, Ky.
Piggott Mfg. Co., Detroit, Mich.
Pittsburg Tool & Drop Forge Co. (Grub), Chesswick, Pa.
Plumb, Fayette R. Frankford, Phila., Pa.
Sandusky Tool Co. (Planters, Grub, Grape, Tobacco, Rice, Cane, Cotton, Street Cleaning, etc.), Sandusky, O.
Scovil, D. & H. ("Scovil" Hoes), Higganum, Conn.
Smith, Jno. C., Evansville, Ind.
Union Fork & Hoe Co. (Field, Cotton, Garden, Mortar Mixing, Planters, Chopper & Shuffle), Columbus, O.
Union Furnace Mfg. Co. (Malleable Iron), Union Furnace, Pa.
Warwood Tool Co. (Grub & Hazel), Wheeling, W. Va.

## 4701— Hoes (Grub)

American Axe & Tool Co., Glassport, Pa.
Bateman Mfg. Co., Grenloch, N. J.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Iron City Tool Works, Pittsburg, Pa.
Klein, Logan Co., Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
Sandusky Tool Co., Sandusky, O.
Warwood Tool Co. (Also Hazel, Vineyard, etc.), Wheeling, W. Va.

## 4702— Hoes (Horse)

Adams, G. & Son, Rome, N. Y.
Allen, S. L. & Co., 1107 Market, Phila., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bateman Mfg. Co., Grenloch, N. J.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Bement's, E. Sons, Lansing, Mich.
Benecia Agricultural Works, Benecia, Cal.
Farquhar, A. B. Co., York, Pa.
Hussey Plow Co. (Potato), No. Berwick, Me.
**INTERNATIONAL HARVESTER CO.** of America (& Cultivators), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 4702a— Hoes (Motor)

Wallingford Mfg. Co., Wallingford, Vt.

## 4703— Hoes (Onion)

Jelliff, C. O. Mfg. Corp., Southport, Conn.

## 4704— Hoes (Wheel)

Allen, S. L. & Co., 1107 Market, Phila., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bacon Mfg. Co., Pontiac, Mich.
Bateman Mfg. Co., Grenloch, N. J.
Fuller Mfg. Co., Danvers, Mass.
Fuller & Johnson Mfg. Co., Racine, Wis.
Hussey Plow Co., North Berwick, Me.
Jelliff, C. O. Mfg. Corporation, Southport, Conn.
Moline Plow Co., Moline, Ill.
Piggott Mfg. Co., 9 Woodward av, Detroit, Mich.

## 4705— Hogsheads

Armer, J. T. & Sons, Augusta, Ky.
**BALTIMORE COOPERAGE CO., THE** (For Wine Mfrs.), c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Columbus Barrel Mfg. Co., Columbus, Ga.
Fridman Lumber Co., N. Richmond, O.
Mayfield Planing Mills, Mayfield, Ky.
Newark Cooperage Works, 39 Alyea, Newark, N. J.
Portland Cooperage Co., Portland, Me.
Ryan, John, Hoboken, N. J.
Turner, L. B., Oxford, N. C.
Williams, S. C. & Co., East Liverpool, O.

## Hoists (Air Motor)

(See Pneumatic Hoists)

## 4706—Hoist (Ammunition)

**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Yale & Towne Mfg. Co. (Triplex Trolley Blocks), 9 Murray, New York

## 4707— Hoists (Ash)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**INSLEY MFG. CO. (Automatic Dumping Bucket), Indianapolis, Ind.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
**NORTHERN ENGINEERING WORKS** (For Power Plants), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**PITTSBURG CONVEYING MACHINERY** Co. (Automatic), Pittsburg, Pa. (See adv. index, end of book)
Q. M. S. Co., Plainfield, N. J.
**SPEIDEL, JOHN G. (Cellar), Reading, Pa.,** (See adv. index, end of book)

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Storm Mfg. Co., Newark, N. J.
Toledo Bridge & Crane Co., Toledo, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 4708– Hoists (Automobile)

Ginter, J. M., Wooster, O.
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

## 4709– Hoists (Belt)

**AMERICAN HOIST & DERRICK CO.** (Double Friction Drum), St. Paul, Minn. (See adv. index & branch offices, end of book)
Browning, Victor R. & Co., Cleveland, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
**CLYDE IRON WORKS (Friction** Drum, etc.), Duluth, Minn. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.** (Single & Double Friction Drum, etc.), Harrison, N. J. (See adv. index & branch offices, end of book)

## 4710–Hoists (Blast Furnace)

**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)

## Hoists (Builders')

(See Hoists, Contractors' Material; also Elevators, Hod)

## 4711–Hoists (Builders' Electric)

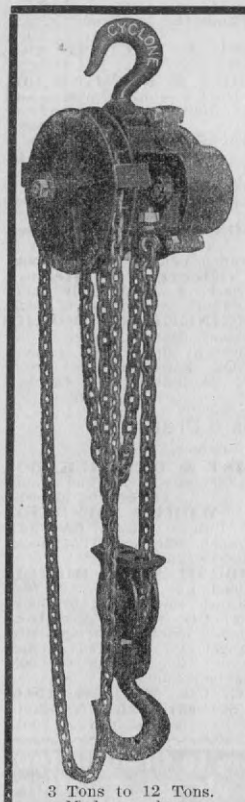
(See also Elevators, Hod)

**CLYDE IRON WORKS (Also Belt** & Steam), Duluth, Minn. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO. (for** Platform Elevators), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Patten Mfg. Co., Chattanooga, Tenn.
Toledo Bridge & Crane Co., Toledo, O.

## 4712– Hoists (Chain)

(See also Blocks, Chain Hoisting; also Pneumatic Hoists)

American Hoist & Mfg. Co. ("New Century"), Hamburg, Pa.
Boston & Lockport Block Co., Boston, Mass.
Box, Alfred & Co., 813 N Front, Phila., Pa.
**CHISHOLM & MOORE MFG. CO.** ("Moore's" Anti-Friction, with Automatic Brake, "Cyclone," High Speed, Direct Differential), 49th & Lake, Cleveland, O. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Dake Engine Co. (Pneumatic), Grand Haven, Mich.
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
Dunn, Jas. P., Cleveland, O.
Empire Engine & Motor Co. ("Empire" Pneumatic), Orangeburg, N. Y.
**FAIRBANKS, MORSE & CO.** (High Speed), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Ford Chain Block Co. ("Tribloc"), 135 N 2nd, Phila., Pa.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Harrington, Edwin Son & Co. ("Peerless" Spur Geared & Harrington "Screw"), 17th & Callowhill, Philadelphia, Pa.
Hobbs, Clinton E. ("Weston"), 10 Pearl, Boston, Mass.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Irving Mfg. & Tool Co., 169 Chambers, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Lane Bros. Co., Poughkeepsie, N. Y.
Moore, Franklin Co. ("Acme," "Imperial," ¼ to 20 tons), Winsted, Conn.
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
**NORTHERN ENGINEERING WORKS** ("Electric"), 9 Chene, Detroit, Mich. (See adv. index, end of book)
Reading Chain Block Works, Reading, Pa.


3 Tons to 12 Tons. Made as above. ½, 1, 1½ and 2 ton sizes, with single load chains.

# "Cyclone"

# High Speed Chain Hoist

½ ton to 40 tons capacity,

**With Self-Lubricating Bearings**

**ALL GEARS CUT**

The Bearings of the Hoist have GRAPHITE BRONZE BUSHINGS. They are self-lubricating, they require no oil, and will run indefinitely without cutting.

## The Guaranteed Hoist

Send for Illustrated Catalog describing full line of

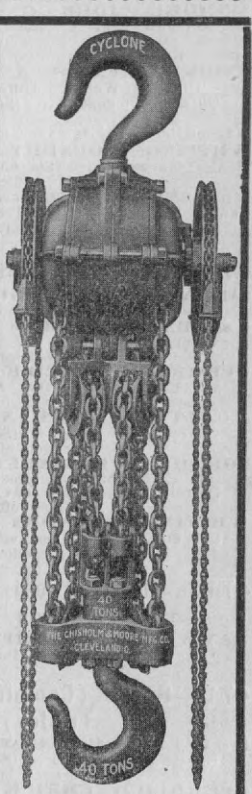
# HOISTS and TROLLEYS

**Light and Medium Weight**

# Malleable Iron Castings

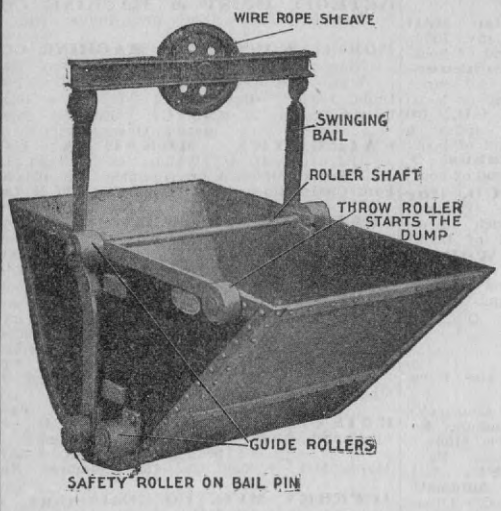
# The Chisholm & Moore Mfg. Co.

**CLEVELAND, OHIO, U. S. A.**




16, 20, 30 and 40 Tons. Made as above.


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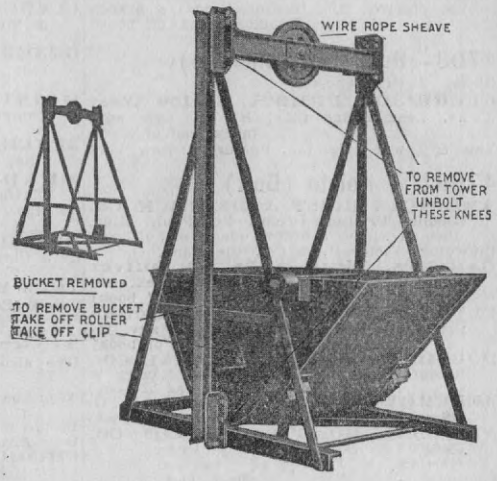



**Concrete Hoists and Distribution Equipment**

**INSLEY MFG. CO.**

**Engineers and Manufacturers**

**Indianapolis Ind.**





**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
Round, D. & Son (Hoists & Cranes), 7625 B'way, S. E, Cleveland, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SPEIDEL, JOHN G. ("Economic,"** "Simplex" Safety), Reading, Pa. (See adv. index, end of book)
Toledo Bridge & Crane Co., Toledo, O.
**UNION ELEVATOR & MACHINE CO.** ("Union" Weston Differential), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wagner-Palmros Mfg. Co., Fairmont, W. Va.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Wright Mfg. Co. ("Standard"), Lisbon, O.
Yale & Towne Mfg. Co. (Triplex, Spur Geared & Duplex Screw Geared), 9 Murray, New York

## 4713–Hoists (Coal Handling)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS** (For Unloading Cars, Vessels, etc.), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 4713a–Hoists (Coal, Incline Traveling)

**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)

## 4714–Hoists (Combined with Trolley)

**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)

## 4715–Hoists (Concrete Bucket)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**INSLEY MFG. CO., Indianapolis,** Ind. (See adv. index & branch offices, end of book)
**KOEHRING MACHINE CO. ("Koehring"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co., Milwaukee, Wis. (See adv. index & branch offices, end of book)
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

## 4716–Hoists (Contractors' Material)

(See also Elevators, Hod)

Bates & Edmonds Motor Co. (Gasoline for Double Platform), Lansing, Mich.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Contractors' Plant Mfg. Co. (Wheelbarrow), Buffalo, N. Y.
Dake Engine Co. (Steam or Air), Grand Haven, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
General Distributing Co., Jackson, Mich.
**INSLEY MFG. CO. (Steel Skeleton),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
Patten Mfg. Co. ("Painter" Patent, Double Platform, Electric, Gasoline & Steam), Chattanooga, Tenn.
**UNION ELEVATOR & MACHINE CO.** (Belt, Electric, Gasoline, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Waterloo Cement Machinery Corp. ("Polygon," Gasoline Engine), Waterloo, Ia.

## 4717– Hoists (Distillate)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 4718–Hoists (Dock & Deck)

Automatic Machine Co., Bridgeport, Conn.
Bartlett, A. F. & Co., Saginaw, Mich.
**CLYDE IRON WORKS (Steam), Du-**luth, Minn. (See adv. index & branch offices, end of book)
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Dake Engine Co. (Pneumatic or Steam), Grand Haven, Mich.
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
Jackson-Church-Wilcox Co., Saginaw, Mich.
**LIDGERWOOD MFG. CO., 96 Lib-**erty, New York, & Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Maris Bros., 56th c Gray's av, Phila., Pa.
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
**MUNDY, J. S. (Electric & Steam),** 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS** (Electric), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.
Williamson Bros. Co., Aramingo av & Cumberland, Phila., Pa.

## 4719– Hoists (Drum)

(See also Engines, Hoisting)

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index and branch offices, end of book)
**CLYDE IRON WORKS (Friction** Drum, Electric), Duluth, Minn. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
**FAIRBANKS, MORSE & CO. (Double** Drum), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO. (Belt & Elec-**tric Single & Double Friction, for Quarries, Mines, etc.), Bangor, Pa. (See adv. index, end of book)
Superior Iron Works Co., Superior, Wis.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

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## 4720– Hoists (Electric)

(See also Pneumatic Hoists; also Cranes, Hand Power; also Cranes, Electric)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

**AMERICAN HOIST & DERRICK CO.** (Single & Double Friction Drum, etc.), St. Paul, Minn. (See adv. index & branch offices, end of book)

**BARTLETT, C. O. & SNOW CO. (For** Steam Ship Fueling Lighters), Cleveland O. (See adv. index & branch offices, end of book)

Box, Alfred & Co. (Monorail, etc.), 813 N Front, Phila., Pa.

**BROWN HOISTING MACHINERY CO.,** St. Clair, N E, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)

Browning Engineering Co., Cleveland, O.

**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end

Case Crane Co., Columbus, O. of book)

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

Cline, A. J. ("Reliable"), 279 Dearborn, Chicago, Ill.

Hoists (Electric) Friction Drum
MANUFACTURED BY
CLYDE IRON WORKS
DULUTH, MINN.

**CLYDE IRON WORKS (Friction** Drum), Duluth, Minn. (See adv. index & branch offices, end of book)

Denver Engineering Works Co., Denver, Colo.

Detroit Engineering Works, Detroit, Mich.

**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)

Dillon-Box Iron Works Co., Denver, Colo.

**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

English Iron Works Co. ("Samson"), Kansas City, Mo.

Euclid Crane & Hoist Co. (Traveling Monorail), Euclid, O.

**EXETER MACHINE WORKS, Pitts-**ton, Pa. (See adv. index & branch offices, end of book)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)

**HELWIG MFG. CO. ("Helwig"), St. Paul,** Minn. (See adv. index, end of book)

**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

**JEFFREY MFG. CO., Columbus, O. (See** adv. index & branch offices, end of book)

**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Polnier, Newark, N. J. (See adv. index & branch offices, end of book)

**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.; Works: Warren, O.

Maine Electric Co., Portland, Me.

**MEAD-MORRISON MFG. CO. (Gear-**less), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.

Modern Steel Structural Co., Waukesha, Wis.

**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)

**NATIONAL HOISTING ENGINE CO.** (Double Friction Drum, etc.), Harrison, N. J. (See adv. index & branch offices, end of book)

**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)

**NORTHERN ENGINEERING WORKS** (Chain), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

**OTIS ELEVATOR CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)

Ottumwa Iron Works, Ottomwa, Iowa

Patten Mfg. Co. ("Patten," Variable Speed), Chattanooga, Tenn.

Pawling & Harnischfeger Co., Milwaukee, Wis.

**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)

Portland Co., Portland, Me.

Rasmus, Gustav, 514 W 57th, New York

**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)

San Francisco Engineering Co., San Francisco, Cal.

**SHEPARD ELECTRIC CRANE &** Hoist Co., Montour Falls, N. Y. (See adv. index & branch offices, end of book)

Shriver, T. & Co., Harrison, N. J.

Sprague Electric Co., 527 W 34th, New York

Sturtevant, B. F. Co., Hyde Park, Mass.

Toledo Bridge & Crane Co., Toledo, O.

Weir & Craig Mfg. Co. (½ to 5 tons), 2439 Wallace, Chicago, Ill.

Wellman-Seaver-Morgan Co., Cleveland, O.

**WHITING FOUNDRY EQUIPMENT CO.,** Harvey, Ill. (See adv. index & branch offices, end of book)

Williamson Bros. Co. ("Williamson"), Aramingo av & Cumberland, Phila., Pa.

Yale & Towne Mfg. Co., 9 Murray, New York

## 4721–Hoists (Electric Chain)

**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Sprague Electric Co., 527 W 34th, New York

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 4722–Hoists (Electric Mine)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)

Connellsville Mfg. & Mine Supply Co., Connellsville, Pa.

Denver Engineering Works Co., Denver, Col.

Dillon-Box Iron Works Co., Denver, Col.

English Iron Works Co. ("Samson"), Kansas City, Mo.

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Goodman Mfg. Co., 39th & Stewart av, Chicago,

Imperial Iron Works (Inc.), Duluth, Minn. Ill.

**JEFFREY MFG. CO., Columbus, O. (See** adv. index & branch offices, end of book)

Lake Shore Engine Works, Marquette, Mich.

**LAMBERT HOISTING ENGINE CO.,** 119 Polnier, Newark, N. J., & 149 B'way, New York. (See adv. index, end of book)

**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)

**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.

Mineral Ridge Mfg. Co., Mineral Ridge, O.

Ottumwa Iron Works, Ottumwa, Ia.

**PHOENIX ELECRIC CO., Mansfield, O.** (See adv. index, end of book)

**VULCAN IRON WORKS, Wilkes-**Barre, Pa. (See adv. index, end of book)

Wellman-Seaver-Morgan Co., Cleveland, O., & Akron, O.

Willamette Iron & Steel Works, Portland, Ore.

## 4723–Hoists (Electric Mono Rail)

**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Hendricks' Commercial Register

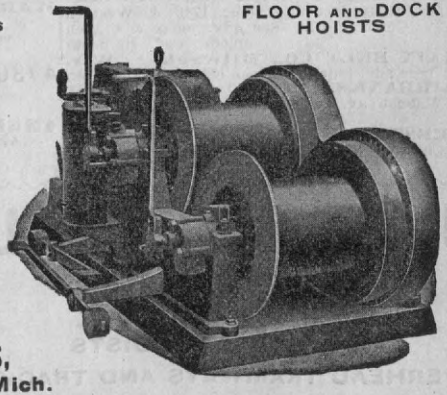
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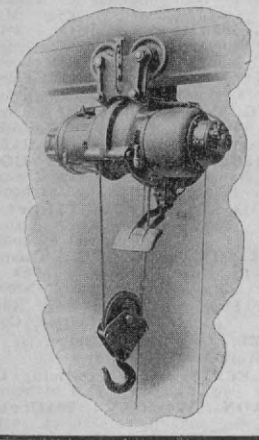
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## 4724—Hoists (Electric, Reversible Friction)

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**MONIGHAN MACHINE CO., 2034 Carroll av, Chicago, Ill.** (See adv. index, end of book)

## 4725—Hoists (Electric Traveling)

(See also Cranes, Electric Traveling)

Case Crane Co., Columbus, O.
**EXETER MACHINE WORKS, Pittston, Pa.** (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Niles, Bement Pond Co., 111 B'way, New York
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Pawling & Harnischfeger Co., Milwaukee, Wis.
**SHEPARD ELECTRIC CRANE &** Hoist Co. (Also Electric Trolleys), Montour Falls, N. Y. (See adv. index & branch offices, end of book)
Sprague Electric Co., 527 W 34th, New York
Toledo Bridge & Crane Co., Toledo, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## Hoists (Electric Trolley)

(See Hoists, Electric Traveling)

## 4726—Hoists (Friction & Flat Friction)

**CALDWELL, H. W. & SON CO. (Hanger & Horizontal Type),** 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 4727— Hoists (Gasoline)

Alama Mfg. Co., Hillsdale, Mich.
Bates & Edmonds Motor Co., Lansing, Mich.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Charter Gas Engine Co. ("Charter"), Sterling, Ill.
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Corliss Gas Engine Co. (Corliss Mining), 227 Folsom, San Francisco, Cal.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foos Gas Engine Co. (Mine), Springfield, O.
Hildreth Mfg. Co., Lansing, Mich.
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene Detroit, Mich. (See adv. index & branch offices, end of book)
Patten Mfg. Co. ("Painter"), Chattanooga, Tenn.
Price, G. W., Pump & Engine Co., San Francisco, Cal.
Union Gas Engine Co. (Gas), San Francisco, Cal.
Western Gas Engine Co., Los Angeles, Cal.
Witte Iron Works Co., Kansas City, Mo.

## 4728—Hoists (Grab Bucket)

**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

## 4729—Hoists (Grip, for Hand Elevators)

Arthur Co., 188 Front, New York
**WARSAW ELEVATOR CO., Warsaw,** N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

## 4730— Hoists (Hand)

(See also Elevators, Hand)

**AMERICAN HOIST & DERRICK CO.** (Also Belt), St. Paul, Minn. (See adv. index & branch offices, end of book)
Case Crane Co. (Hand Power), Columbus, O.
**CHISHOLM & MOORE MFG. CO.** ("Moore's" Hand Hoist with Lock Brake), 49th & Lake, Cleveland, O. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
Coburn Trolley Track Mfg. Co. (Rope Block), Holyoke, Mass.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Dake Engine Co. (Rope), Grand Haven, Mich.
**DOBBIE FOUNDRY & MACHINE CO., (Hand Power), Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)**
Euclid Crane & Hoist Co., Euclid, O.
**EXETER MACHINE WORKS, Pittston, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Great Lakes Engineering W'ks (For Ice Cans), Detroit, Mich.
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Hassell Iron Works Co. (Also Horse Power), Colorado Springs, Colo.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Hunt, Helm, Ferris & Co. ("Star" Rope & Block), Harvey, Ill.
Larrabee, Jno. E. (Portable), Amsterdam, N. Y.
Mason, Volney W. & Co., Providence, R. I.
Mine & Smelter Supply Co. (For Mines, etc.), 42 B'way, New York & Denver, Colo.
Moore, Franklin Co., Winsted, Conn.
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
Ney Mfg. Co., Canton, O.
**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)
Q. M. S. Co., Plainfield, N. J.
**READING CRANE & HOIST WORKS,** Reading, Pa (See adv. index, end of book)
Shriver, T. & Co., Harrison, N. J.
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)


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Toledo Bridge & Crane Co., Toledo, O.
**WARSAW ELEVATOR CO., Warsaw, N. Y.,** & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co. (Chain), 9 Murray, New York

## 4731—Hoists (High Speed)

**CHISHOLM & MOORE MFG. CO. ("Cyclone" Chain),** 49th & Lake, Cleveland, O. (See adv. index, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)

## Hoists (Hod)

(See Elevators, Hod)

## 4732—Hoists (Horse Power)

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)

## 4733— Hoists (Hydraulic)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 4734— Hoists (Lumber)

Pawling & Harnischfeger Co. (Electric Monorail System), Milwaukee, Wis.

## 4735— Hoists (Mine)

Alama Mfg. Co. (Gasoline, Alcohol, etc.), Hillsdale, Mich.
**CLYDE IRON WORKS (Steam), Duluth,** Minn. (See adv. index & branch offices, end of book)
Dake Engine Co. (Pneumatic Chain), Grand Haven, Mich.
Danville Foundry & Machine Co., Danville, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Engineering Works Co., Denver, Colo.
English Iron Works Co. ("Samson" Electric & Steam), Kansas City, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hassell Iron Works Co. (Also Horse Power), Colorado Springs, Col.
Hendrie & Bolthoff Mfg. & Supply Co. (Steam Power), Denver, Colo.
Holmes, Robt. & Bros. ("Holmes" Automatic Gravity), Danville, Ill.
Imperial Iron Works (Steam & Electric). Duluth, Minn.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO. (Steam & Electric).** 96 Liberty, New York. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co. (42 B'way, New York, & Denver. Colo.
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS** (Electric), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)
Ottumwa Iron Works (Steam & Electric), Ottumwa, Iowa
Vulcan Iron Works (Steam & Electric), Wilkes-Barre, Pa.
Wellman-Seaver-Morgan Co. ("Winze"), Cleveland, O.
Western Gas Engine Co., Los Angeles, Cal.

## Hoists (Pneumatic)

(See Pneumatic Hoists)

## 4736— Hoists (Portable)

**CANTON FOUNDRY & MACHINE CO.** Canton, O. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Milton, S. G. & Co., Franklin, Pa.
Nicholls, Wm. S. (Up to 6,000 lbs. Capacity), 253 B'way, New York
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

## 4737— Hoists (Quarry)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
New Albany Mfg. Co. (Also Belt), New Albany, Ind.
**SMITH, T. L. CO., The, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## Hoists (Sidewalk)

(See Elevators, Sidewalk)

## 4738— Hoists (Steam)

(See also Engines, Hoisting)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
Browning Engineering Co., Cleveland, O.
Byers, John F. Machine Co., Ravenna, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Dederick's P. K. Sons, Albany, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
English Iron Works Co. ("Samson"), Kansas City, Mo.
**EXETER MACHINE WORKS, Pittston,** Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. (Steam** Geared), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Gas Machinery Co. (For Gas Works), Cleveland, O.
Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
Hunt, C. W. Co., W New Brighton, N. Y.
Jackson-Church-Wilcox Co., Saginaw, Mich.
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

HOISTS (STEAM)
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DULUTH, MINN.

**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg., Chicago, Ill. (See adv index & branch offices, end of book)
Marine Iron Co., Bay City, Mich.
**MEAD-MORRISON MFG. CO., Cam**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Mineral Ridge Mfg. Co., Mineral Ridge, O.
**MUNDY, J. S., 22 Prospect, Newark,** N. J. (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices. end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
N. Y. Cableway & Engineering Co., 90 West, New York
Ottumwa Iron Works, Ottumwa, Iowa
Portage Lake Foundry & Machinery Co., Hancock, Mich.
Risdon Iron & Locomotive Works, Steuart & Folsom, San Francisco, Cal.
Union Iron Works Co., San Francisco, Cal.
United Iron Works Co. ("Freeman" Geared), Springfield, Mo.
Wellman-Seaver-Morgan Co., Cleveland, O.
Williamson Bros. Co. ("Williamson"), Aramingo av & Cumberland, Phila., Pa.

## 4739—Hoists (Suction Pipe)

Superior Iron Works Co. (Hydraulic), Superior, Wis.

## Hoists (Telpher)

(See Telpherage, Electric Conveying)

## 4740— Hoists (Traveling)

(See also Hoists, Electric Traveling)

**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**GUERRLICH, FRED'K. C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
Q. M. S. Co. (Trolley), Plainfield, N. J.
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Toledo Bridge & Crane Co., Toledo, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co. (Chain or Electric), 9 Murray, New York

## 4741— Hoists (Trolley)

(See Trolleys & Trolley Tracks, Overhead)

## 4742—Hoists (Wheelbarrow)

(See also Elevators, Hod; also Hoists, Builders' Electric)

**CLYDE IRON WORKS, Duluth, Minn.** (See adv. index & branch offices, end of book)
**INSLEY MFG. CO. (Single & Double),** Indianapolis, Ind. (See adv. index & branch offices, end of book)
Patten Mfg. Co. ("Painter"), Chattanooga, Tenn.
Simpson Hod Elevating Co., Newark, N. J.

## 4743—Holders (Angle Cock)

Western Railway Equipment Co. ("Wetsern"), St. Louis, Mo.

## 4744—Holders (Automobile Tire)

Turner Brass Works, Sycamore, Ill.

## 4745— Holders (Bag)

American Buncher Mfg. Co., Indianapolis, Ind.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Bowsher, N. P. Co., South Bend, Ind.
Comstock, Geo. S., Mechanicsburg, Pa.
E-Z Bag Holder Co. ("E-Z," Truck Bag Holder), Marinette, Wis.
Great Western Mfg. Co. ("Mosher"), Leavenworth, Kan.
Nordyke & Marmon Co., Indianapolis, Ind.
South Bend Spark Arrester Co., South Bend, Ind.
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
**WEBSTER MFG. CO. ("Mosher"),** 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 4746—Holders (Bit Brace)

**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 4747— Holders (Blanket)

Ashtabula Mfg. Co., Ashtabula, O.
Buckeye Mfg. Co., Canton, O.
Imperial Bit & Snap Co., Racine, Wis.
Kohler, F. E. Co., Canton, O.
Thompson, Judson L. Mfg. Co., Waltham, Mass.

## 4748— Holders (Bottle)

**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
National Mfg. Co. (Wire), Worcester, Mass.
New York Stamping Co. ("Empress"), N 11th & Berry, Brooklyn, N. Y.

## 4749— Holders (Broom)

American Ring Co. (Whisk), Waterbury, Conn.
Arcade Mfg. Co. ("Gem"), Freeport, Ill.
Cassaday-Fairbank Mfg. Co. (Whisk), 6106 Lasalle, Chicago, Ill.
Central Specialty Mfg. Co. (Whisk), 508 S Peoria, Chicago, Ill.
Coleman Hardware Co. ("Eureka"), 168 Michigan av, Chicago, Ill.
Doolittle, S. B. & Son, Binghamton, N. Y.
Ely, Theo. J. Mfg. Co. ("Dandy"), Girard, Pa.
Franklin Specialty Co. ("Ideal"), Reading, Pa.
Geuder & Paeschke & Frey Co., Milwaukee, Wis.
Kennebunk Mfg. Co. (Whisk), Rochester, N. H.
Knapp, Geo. S., Bridgeport, Conn.
Novelty Mfg. Co. (Whisk), Waterbury, Conn.
Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.
Pullman Mfg. Co. ("Rubber Grip"), Rochester, N. Y.
Tatum, Sam'l C. Co., Cincinnati, O.
Wrightsville Hardware Co. ("Star"), Wrightsville, Pa.

## 4750— Holders (Brush)

Baylis Co. ("Reaction"), Bloomfield, N. J.
Cassady-Fairbank Mfg. Co. (Tooth Brush, etc.), 6106 La Salle, Chicago, Ill.
Eager Electric Co. ("Eureka"), Watertown, N. Y.
Eureka Tempered Copper Wks., North East, Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hamblin & Russell Mfg. Co., Worcester, Mass.
Nelson, Sam'l ("Nelson's," Extension), 1218 Otto, Chicago, Ill.
Perfection Supply Co., 61 Park pl, New York
Railway Steel Spring Co., 30 Church, New York

## 4751— Holders (Candle)

Hero Mfg. Co. (Aluminum), Gaul & Adams, Phila., Pa.
Stortz, John, & Son (Plumbers'), 210 Vine, Phila., Pa.

## 4752— Holders (Car Door)

Sherburne & Co. ("Sherburne"), Boston, Mass.

## 4753— Holders (Carbon)

Bogue, Chas. J. Elec. Co., 513 W 29th, New York
Phila. Electrical & Mfg. Co., 1232 N 31st, Phila., Pa
Turner Brass Works, Sycamore, Ill.

## 4754—Holders (Card & Label)

Cassady-Fairbank Mfg. Co., 6016 La Salle, Chicago, Ill.
Corbin Cabinet Lock Co. (Bronze & Brass), New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
Grammes, L. F. & Sons, Allentown, Pa.
Judd, H. L. Co., 87 Chambers, New York
Novelty Mfg. Co., Waterbury, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Phillips, A. J. Co., Fenton, Mich.
Salisbury Mfg. Co. (For Fastening to Price Tickets, etc.), Providence, R. I.
Sargent & Co., New Haven, Conn.
Shelby Spring Hinges Co., Shelby, O.
Western Railway Equipment Co. ("Downing," for Cars), St. Louis, Mo.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

## 4755— Holders (Chart)

Spiro, C. Mfg. Co., 104 W 101st, New York

## 4756—Holders (Christmas Tree)

Adele Mfg. Co. ("20th Century"), 43 Murray, New York
Donnelly, John ("Hub"), Branford, Conn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
North Bros. Mfg. Co. ("Crown"), Lehigh av & American, Phila., Pa.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Peck-Hamre Mfg. Co. ("Little Gem" & "Little Jewel" Steel), Berlin, Wis.
Penn Hardware Co., Reading, Pa.
Phoenix Hdwe. Mfg. Co., Homer, N. Y.
Rhinelander Refrigerator Co. ("Riek's"), Rhinelander, Wis.

## 4757—Holders (Chucking Reamer)

Billings & Spencer Co. (Drop Forged), Hartford, Conn
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 4758—Holders (Cigar Ribbon)

National Selling Co., Allentown, Pa.

## 4759— Holders (Concrete)

Grabler Mfg. Co. (Steel, also Extension), Cleveland, O.

## 4760— Holders (Copy)

Beaton & Cadwell Co. ("Ludington's"), New Britain, Conn.
Coffey, D. S. Co. ("Coffey" Copyholder & Loose Leaf Book), St. Paul, Minn.
Dudley Mfg. Co. ("Dudley" Loose Leaf, Book & Copy, etc.), Marion, O.

## 4761—Holders (Dash Rein)

Fernald Mfg. Co. ("Fernald"), North East, Pa.

## 4762—Holders (Die & Tap)

**AMERICAN TAP & DIE CO., Greenfield,** Mass. (See adv. index, end of book)
Beaman & Smith Co. (Tap), Providence, R. I.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co. (Die Holders Only), Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. (Bit Brace, Lathe), Pawtucket, R. I.
Diamond Power Specialty Co. ("Diamond"), Detroit, Mich.
Errington, F. A., 39 Cortlandt, New York
Geometric Tool Co. (Reversing Tap Holder), New Haven, Conn.
Goodell-Pratt Co. (Tap), Greenfield, Mass.
Hartford Machine Screw Co., Hartford, Conn.
Modern Tool Co., Erie, Pa.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son (Bit Brace), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Quint, A. D. (Tap), Hartford, Conn.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS CO. (Clutch Holders** for "Little Giant" Dies, Solid Holders for Spring Screw Threading Dies & Hollow Tap Holders), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

## Holders (Door)

(See Door Stops)

## 4763— Holders (Drill)

Beamon & Smith Co. ("Safety"), Providence, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**STAR EXPANSION BOLT CO.** (Electricians', Brick & Stone), 147 Cedar, New York. (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant,"** Ratchet Drill), Greenfield, Mass. (See adv. index & branch offices, end of book)

## 4764—Holders (Dry Battery)

Stanley & Patterson ("Patterson," Wireless), 23 Murray, New York

## 4765—Holders (Electric Drop Lamp)

Gail-Webb Mfg. Co. ("Universal"), Buffalo, N. Y.

## 4766—Holders (Electric Lamp)

Brady, T. H., New Britain, Conn.
Bunnell, J. H. & Co., Park pl & Church, New York
Faries Mfg. Co. (Adjustable), Decatur, Ill.
Harley Machine Co., Springfield, Mass.
Ohio Electric Specialty Mfg. Co., Troy, O.
Zephyr Ventilator Mfg. Co. (Radial), Phila., Pa.

## 4767— Holders (File)

Western Tool & Mfg. Co. ("Lutz" Universal), Springfield, O.

## 4768—Holders (Fire-Cracker)

Nelson, Marinus ("Nelson," Megaphone), Los Alamitos, Cal.

## 4769—Holders (Fishing Rod)

Franklin Specialty Co. ("Rambler"), Reading, Pa.

## 4770—Holders (Flag Pole)

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

## 4771— Holders (Hog)

Stearns, E. C. & Co., Syracuse, N. Y.

## 4772— Holders (Knurl)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Graham Mfg. Co. (For Turrets), Providence, R. I.

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## Holders (Label)
(See Holders, Card & Label)

### 4773—Holders (Magnetic Lamp)
Aurora Electric Co., Aurora, Ind.
Stiles, H. A. & Co. ("Collom"), Boston, Mass.

### 4774—Holders (Match Box)
American Ring Co., Waterbury, Conn.
**ARCADE MFG. CO. (For Safety** Matches, etc.), Freeport, Ill. (See adv. index, end of book)
Buffalo Mfg. Co., Buffalo, N. Y.
Globe Stamping Co., Buffalo, N. Y.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Wrightsville Hardware Co., Wrightsville, Pa.

### 4775— Holders (Milk Jar)
Hamblin & Russell Mfg. Co., Worcester, Mass.
National Mfg. Co. (Wire), Worcester, Mass.

### 4776—Holders (Milk Pail)
Carroll Muzzle Co., Carroll, Ia.

## Holders (Mop)
(See Mop Sticks & Holders)

### 4778— Holders (Oil Can)
Dayton Malleable Iron Co. (Automobile, Launch, etc.), Dayton, O.

### 4779—Holders (Paper Bag)
Tatum, Sam'l C. Co., Cincinnati, O.

### 4780—Holders (Pipe Nipple)
American Pin Co. (Brass), Waterbury, Conn.
**ARMSTRONG MFG. CO., 278 Knowl**ton, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Curtis & Curtis Co., Bridgeport, Conn.
Fee & Mason (& for Flush Pipes), 81 Beekman, New York
Lockhart, R. Jas. ("Lockhart." Polished).
Merrell Mfg. Co., Toledo, O. Pittsburg, Pa.
United Tool Co., 164 Federal, Boston, Mass.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

### 4781— Holders (Punch)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

### 4782— Holders (Rod)
National Sheet Metal Co., Peru, Ill.

## Holders (Sack or Bag)
(See Holders, Bag)

### 4783— Holders (Sash)
Automatic Sash Holder Co., 277 B'way, New York
Hart Sash Holder Co. ("Hart" Anti-Rattler), Lexington, Mo.

### 4784— Holders (Scraper)
Bishop, Geo. H. & Co. (Cabinet Scraper), Lawrenceburg, Ind.
Western Tool & Mfg. Co. ("Lutz" & "Lutz Universal"), Springfield, O.

### 4785—Holders (Shade or Globe)
American Brass & Copper Co., 138 Lafayette, New York
Bridgeport Brass Co., Bridgeport, Conn.
Bryant Electric Co. (Electric), Bridgeport, Conn.
Gies, Wm. L. Co. ("Gies," Screwless), Belleville, N. J.
Goodwin & Kintz Co., Winsted, Conn.
Hubbell, Harvey (Inc.) ("Hubbell" Shade), Bridgeport, Conn.
J-E-M Shade Holder Co. ("J-E-M" for Incandescent Lights), 209 W 33rd, New York
Kraushaar Brass Mfg. Co. (Aluminum Elec. Reflector Shades & Holders Combined, etc.), St. Louis, Mo.
Manhattan Brass Co., 338 E 28th, New York
Mitchell-Vance Co., 836 B'way, New York
National Mfg. Co. (Wire), Worcester, Mass.
Plume & Atwood Mfg. Co. (Gas & Electric Globe), Waterbury, Conn.
Remholf, Chas., 381 Kent av, Brooklyn, N. Y.
Steele & Johnson Mfg. Co., Waterbury, Conn.
**TURNER & SEYMOUR MFG. CO.**, Torrington Conn. (See adv. index, end of book)
Waterbury Mfg. Co., Waterbury, Conn.
White, Jas. H. Mfg. Co. 111 N 3d, Brooklyn, N. Y.

### 4786—Holders (Shingle, Steel)
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie, N. Y.** (See adv. index, end of book)

### 4787— Holders (Sign)
Wallace Supply Co. ("Wallace" for All Manner of Car Signs), 120 S Jefferson, Chicago, Ill.

### 4788— Holders (Stake)
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)

### 4789— Holders (Syrup)
Stuart & Peterson Co., Burlington, N. J.

## Holders (Tap)
(See Holders, Die & Tap)

### 4790—Holders (Telephone Receiver)
Graeber-Entrikin Mfg. Co. (Inc.), ("Invincible"), Chestnut, Phila., Pa.
Oliver Mfg. Co. ("Equipose"), 420 Sansom, Phila., Pa.
Staats Mfg. Co., Chicago, Ill.

### 4791— Holders (Tire Bolt)
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

### 4792—Holders (Toilet Paper)
A. P. W. Paper Co., Albany, N. Y.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Famous Mfg. Co. ("Lokin"), Grand Rapids, Mich.
Forsyth Mfg. Co. ("No. 803"), Buffalo, N. Y.
Franklin Specialty Co., Reading, Pa.
Morgan Envelope Co. ("Springfield" Oval), Springfield, Mass.
National Mfg. Co., Worcester, Mass.
Parker, Chas. Co., Meriden, Conn.
Shelby Spring Hinge Co. ("Satin," "Silk," Steel & Brass), Shelby, O.
Sweeney, W. H. Mfg. Co. ("Royal"), 30 Main, Brooklyn, N. Y.
Wright Cutter Co. ("Wright," Lock), Boston, Mass.

### 4793—Holders (Tool, Etc.)
Allman Gas Engine & Machine Co. ("Miller" Lathe), 461 Canal, New York
Almond, T. R. Mfg. Co. ("Almond" Mineral), Ashburnham, Mass.
Armstrong Bros. Tool Co., 339 N San Francisco av, Chicago, Ill.
Bay State Tap & Die Co. (Die, Bit, Brace & Lathe), Mansfield, Mass.
Beaman & Smith Co. (Safety Drill & Tap), Providence, R. I.
Billings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co. (For Screw Machines, etc.), Providence, R. I.
**CLEVELAND TWIST DRILL CO.** (Floating & Turret), Lakeside av & 49th Cleveland, O. (See adv. index & branch offices, end of book)
**CLEVELAND TWIST DRILL CO.**, Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
Clifford Tool Co., Concord, N. H.
Colburn Machine Tool Co. ("Colburn," Floating Reamer), Franklin, Pa.
Colton Combination Tool Co. ("R. E. Colton's." for Lathe Tools), Chester, Vt.
**DETROIT TWIST DRILL CO.** (Lathe Drill), Detroit, Mich. (See adv. index, end of book)
Errington, Franklin A., 39 Cortlandt, New York
Fairbanks Co. ("United States"), Springfield, O
Geier, P. A. Co. ("Geier" Boring Tool Holder), 5112 St. Clair av, N E, Cleveland, O.
Goodell-Pratt Co., Greenfield, Mass.
Graham Mfg. Co. ("Knurl"), Providence, R. I.
Grant Mfg. & Machine Co. (Adjustable Boring Tool Holder), Bridgeport, Conn.
Hartford Machine Screw Co., Hartford, Conn.
Hoggson & Pettis Mfg. Co. (Carr's Combination), New Haven, Conn.
Jeanesville Iron Works Co., Jeansville, Pa.
Kelly, P. J. ("Climax" Universal Lathe), Elizabeth, N. J.
Keystone Mfg. Co. ("Keystone," Boring & Threading Tool), 41 Chandler, Buffalo, N.Y.
Krieger Tool & Mfg. Co. ("Chicago" for Boring Tools, Drills, Reamers. etc.), 564 W Randolph, Chicago, Ill.
Lang, G. R. Co. ("Lang," Turning, Threading & Cutting-Off; also Holders for Heavy Work), Meadville, Pa.
Le Count, Wm. G. (Chuck Drill), South Norwalk, Conn.
Massachusetts Tool Co. (Drill & Reamer, etc.), Greenfield, Mass.
Millers Falls Co. (For Hand Tools), 28 Warren, New York; Works: Millers Falls, Mass.
Mingst, C. P. (Lathe & Planer), Evansville, Ind.
Modern Tool Co. (Die, Tap, etc.), Erie, Pa.
O. K. Tool Holder Co., Shelton, Conn.
Oliver Machinery Co. (For Wood Lathes), Grand Rapids, Mich.
Polk, A. J. & Son (Drill, Die, etc.), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Ready Tool Co. ("Red-E"), Bridgeport, Conn.
Slate, Dwight Machine Co., Hartford, Conn.
Springfield Foundry Co. ("United States"), Springfield, O.
Thompson, H. G. & Son ("Carr" Combination), New Haven, Conn.
Union Caliper Co. ("Hill," "Eberhardt"), Orange, Mass.
Van Doren Mfg. Co. ("Tait's Universal," for Lathe, Planer, Shaper, etc.). Chicago, Heights, Ill.
Wells, F. E. & Son Co., Greenfield, Mass.
Western Tool & Mfg. Co. ("The Champion"), Springfield, O.

### 4794— Holders (Trace)
Fernald Mfg. Co. ("Fernald," Double), North Harsh-Miller Mfg. Co., Wabash, Ind. East, Pa.

### 4795—Holders (Tumbler, Etc.)
Cassady-Fairbanks Mfg. Co., 6106 Lasalle, Chicago, Ill.
Edwardsville Brass Co., Edwardsville, Ill.
Forsyth Mfg. Co., Buffalo, N. Y.
National Mfg. Co. (Wire, etc.), Worcester, Mass.
Parker, Chas. Co. (Bath Rooms, etc.), Meriden, Conn.
Sweeney, W. H. Mfg. Co., 30 Main, Brooklyn, Wire Goods Co., Worcester, Mass. N. Y.

### 4796— Holders (Twine)
Introstyle Novelty Mfg. Co. ("Ideal"), Marietta, O.
National Mfg. Co. (Wire), Worcester, Mass.
New York Roll Wrapping Co. ("Simplex" & "Popular"), 84 Beekman, New York
Star Specialty Co., Ashland. O.
Tatum, Samuel C. Co. (& Paper Bag Combined), Cincinnati, O.
West Mfg. Co., Columbus, O.
Wright Cutter Co. ("Wright"), Boston, Mass.

### 4797— Holders (Wire)
Fletcher Mfg. Co. ("Gem"), Dayton, O.

## Hollow Ware Mfrs.
(See also Enameled Ware; also Aluminum Hollow Ware)

### 4798—Hollow Ware (Nickle Plated)
Yale, C. I. Mfg. Co. ("G. I. Mix & Co.s"), Yalesville, Conn.

### 4799—Hollow Ware (Stove)
Crescent Stove Works (Cast Iron), Evansville, Ind.

### 4800—Holsters (Gun & Pistol)
Abercrombie & Fitch, 57 Reade, New York
Brauer Bros. Mfg. Co., St. Louis, Mo.
Cook, E. C. & Bro. (Canvas), 49 E. Kinzie, Chicago, Ill.
Hodgman Rubber Co. (Rubber), 806 B'way, New York
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
Hoegee, W. H. Co., Los Angeles, Cal.
Sportsmen's Supply Co., Binghamton, N. Y.
Strauss, Jacob Saddlery Co. (Leather), St. Louis, Mo.

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## 4801— Hones (Razor)

American Hone Co., Olean, N. Y.
Carborundum Co. (Carborundum), Niagara Falls, N. Y.
Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York

## Hoods (Automobile)

(See Hoods, Motor)

## 4802—Hoods (Conning Tower)

Morton, Robert E., 26 South, New York

## 4803— Hoods (Motor)

Briscoe Mfg. Co., Detroit, Mich.
Degenhart & Co., Buffalo, N. Y.
Detroit Carriage Co., Detroit, Mich.
Fedders Mfg. Works, Buffalo, N. Y.
Hayes Mfg. Co., Detroit, Mich.
Kells, W. J. Mfg. Co., Jersey City, N. J.
Kinsey Mfg. Co. ("Kinwood"), Toledo, O.
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
Neustadt, J. H. Co., 26 S 18th, St. Louis, Mo.
Ohio Blower Co., Cleveland, O.
Quinby, J. M. & Co., Newark, N. J.
Reading Metal Body Co., Reading, Pa.
Rome-Turney Radiator Co., Rome, N. Y.
Saginaw Sheet Metal Works, Saginaw, Mich.
Springfield Metal Body Co., Springfield, Mass.
**Trageser, John, Steam Copper Works, 447 W 26th, New York**
U. S. Aluminum Co., Park bldg, Pittsburg, Pa.
Wright, R. G. & Co., Buffalo, N. Y.

## 4804— Hoods (Spray)

Durkee, C. D. & Co., 2 South, New York
Jones & Robinson, 83 Front, New York.
McClellan, Chas. P. ("Simplicity"), Fall River, Mass.

## 4805—Hoods & Fixtures (Electric Lamp)

Ajax Line Material Co. ("Pelican"), So. Milwaukee, Wis.
Almon, G. H., Montpelier, Vt.
American Reflector & Lighting Co., 201 Van Buren, Chicago, Ill.
Brady, T. H., New Britain, Conn.
Cutter, Geo. Co., South Bend, Ind.
Fletcher Mfg. Co., Dayton, O.
Fort Wayne Electric Works (Inc.), Ft. Wayne, Ind.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Klemm & Co., 132 N 5th, Phila., Pa.
Lundin Electric & Machine Co., Boston, Mass.
Overbagh & Ayres Mfg. Co. ("Oamco"), 232 S Clinton, Chicago, Ill.
Phila. Electrical & Mfg. Co. (Copper Incandescent Street), 1228 N 31st, Phila., Pa.
Roberts, H. C. Electric Supply Co., 905 Arch, Phila., Pa.
Tea Tray Co. ("Tidman," "Chapin," "Columbian," "Marten," "Jersey," "Murray," "Tuxedo," "Tremont"), Newark, N. J.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

## 4806— Hook & Eye Mfrs.

**TURNER & SEYMOUR MFG. CO. (And** Specialties), Torrington, Conn. (See adv. index, end of book)

## 4807— Hooks (Agricultural)

Oliver Iron & Steel Co., Pittsburg, Pa.

## 4808— Hooks (Awning)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.**
Hazel Atlas Glass Co., Wheeling, W. Va.
Humason & Beckley Mfg. Co. (Wrought), New Britain, Conn.
Morgan Spring Co., Worcester, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

## 4809— Hooks (Bale & Box)

(See Hooks, Cotton & Box)

## 4810— Hooks (Barrel)

Morgan Spring Co., Worcester, Mass.
**Wilcox, Crittenden & Co., Middletown, Conn.**

## 4811— Hooks (Beam)

National Tube Co. (Plate & Chandelier), Pittsburg, Pa.

## Hooks (Belt)

(See Belt Fasteners)

## 4812— Hooks (Bench)

**BUFFUM TOOL CO. (Carpenters'),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Dicke Tool Co., Downers Grove, Ill.
Millers Falls Co., 28 Warren, New York
Phoenix Hardware Mfg. Co., Homer, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
Smith, Seymour & Son (Reversible & Screw Adjusting), Oakville, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co., Freeport, Ill.
Vaughan & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
Whipple, R. P. & Co. (Carpenters'), Springfield, Mass.

## 4813— Hooks (Bill)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
Andrews Wire & Iron Works, Rockford, Ill.

## 4814— Hooks (Bird Cage)

American Foundry & Mfg. Co., St. Louis, Mo.
**ARCADE MFG. CO. (Swinging, etc.),** Freeport, Ill. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hendryx, Andrew B. Co., New Haven, Conn.
Judd, H. L. Co., 87 Chambers, New York.
Landers, Frary & Clark (Inc.), New Britain, Conn.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Stowell Mfg. & Fdry Co., S. Milwaukee, Wis.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)
Williamson, C. F. Wire Novelty Co., Newark, N. J.
Wire Goods Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

## 4815— Hooks (Block)

Wilcox, Crittenden & Co., Middletown, Conn.

## 4816—Hooks (Boat & Mooring)

Durkee, C. D. & Co. ("Jacoby"), 2 South, New York
Force, Chas. C. & Son, Madison, N. J.
Laughlin, Thos. Co., Portland, Me.
Malleable Iron Fittings Co., Branford, Conn.
Marine Hardware Co., Peabody, Mass.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Shelton Co., Derby, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

## Hooks (Box)

(See Hooks, Cotton & Box)

## 4817—Hooks (Brass Cup & Shoulder)

Brooks, M. S. & Sons, Chester, Conn.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 4818— Hooks (Bush)

American Axe & Tool Co. (Strapped Eye, etc.), Glassport, Pa., & 253 B'way, New York
Black, John B. ("Wm. Beatty & Sons" Axe Handle, One & Two Rings), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Iwan Bros., Streator, Ill.
Mack & Co., Rochester, N. Y.
**Peck, Stow & Wilcox Co., Southington, Conn.**
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Wadsworth, David & Son, Auburn, N. Y.

## 4819— Hooks (Button)

**BLANCHARD BROS. (Inc.) (Advertising),** 308 Main, Davenport, Ia. (See adv. index, end of book)
Havell Mfg. Co., Newark, N. J.
Potter & Snell, Deep River, Conn.
Ross, Jos. Jr. & Co., Irvington, N. J.

## 4820—Hooks (Cabin Door)

Corbin Cabinet Lock Co., New Britain, Conn.
Edwards, O. M. Co., Syracuse, N. Y.
**Keil, Francis & Son, 401 E 163d, New York**
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Tiebout, W. & J., 118 Chambers, New York

## 4821— Hooks (Carrying)

Anderson Tool & Supply Co., 14 Macomb, Detroit, Mich.
Columbus Handle & Tool Co., Columbus, Ind.
**Dicke Tool Co., Downers Grove, Ill.**
Klein, Maehias & Sons, 562 W **Van Buren, Chicago, Ill.**
Mickel, Fred. L., 83 E 13th, Chicago, Ill.
Oshkosh Logging Tool Co., Oshkosh, Wis.

## 4822— Hooks (Ceiling)

**ARCADE MFG. CO. ("Arcadian"** Bronze), Freeport, Ill. (See adv. index, end of book)
Atlas Mfg. Co. ("Bradley"), New Haven, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
**Jenckes, E. Mfg. Co. ("Eclipse," "Favorite"),** Worcester, Mass.
National Mfg. Co. ("Favorite"), Sterling, Ill.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Shelby Spring Hinges Co. (Wire), Shelby, O.
Stover Mfg. Co. (Or Chandelier), Freeport, Ill.
Susquehanna Casting Co., Wrightsville, Pa.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
**Wire Goods Co., Worcester, Mass.**
Wire Hardware Co., 1824 Besly court, Chicago, Ill.

## 4823— Hooks (Clam)

Union Fork & Hoe Co., Columbus, O.

## 4824— Hooks (Clinker)

U. S. Wire Mat Co., Decatur, Ill.

## 4825—Hooks (Clothes Line)

American Foundry & Mfg. Co., St. Louis, Mo.
Bregwoodkro Stamping & Mfg. Co., Lorain, O.
New York Franklin Specialty Co. ("Perfection"), Reading, Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Jenckes, E. Mfg. Co., Worcester, Mass.
Landers, Frary & Clark (Inc.), New Britain, Conn.
Malleable Iron Fittings Co., Branford, Conn.
Parker Wire Goods Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stowell Mfg. & Fdry Co., S. Milwaukee, Wis.
Susquehanna Casting Co., Wrightsville, Pa.
Swett, A. L. Iron Works, Medina, N. Y.
Tie Co., Unadilla, N. Y.
Vaughn & Bushnell ("V. & B." Steel Screw or Drive), 2130 Carroll av, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.
Williams, A. C. Co., Ravenna, O.
Wire Goods Co., Worcester, Mass.
**Wrightsville Hardware Co., Wrightsville, Pa.**

## 4826—Hooks (Coat & Hat, Cast)

American Ring Co., Waterbury, Conn.
Arcade Mfg. Co., Freeport, Ill.
Ashtabula Mfg. Co., Ashtabula, O.
Backus Novelty Co. (Combination Lock), Smethport, Pa.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
**Central Specialty Mfg. Co., 508 S Peoria, Chicago, Ill.**
Champion Safety Lock Co., Geneva, O.
Corbin, P. & F., New Britain, Conn.

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Erie Art Metal Co., Erie, Pa.
Grab, Victor M. & Co. ("Yale" Wardrobe, Hat & Cloak), Ashland blk, Chicago, Ill.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hardware Supply Co., Grand Rapids, Mich.
Landers, Frary & Clark, New Britain, Conn.
Lawrence Bros. (All Steel), Sterling, Ill.
Niles Mfg. Co., 216 S Jefferson, Chicago, Ill.
Novelty Mfg. Co., Waterbury, Conn.
Payson Mfg. Co., 2918 Jackson blvd, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Phoenix Lock Works. Newark, N. J.
Reading Hardware Co., Reading, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Searles Mfg. Co., Newark, N. J.
Shelby Spring Hinge Co., Shelby, O.
Stearns, E. C. & Co., Syracuse, N. Y.
Stowell Mfg. & Fdry Co., S. Milwaukee, Wis.
Susquehanna Casting Co., Wrightsville, Pa.
Taylor & Boggis Foundry Co., Cleveland, O.
Turner & Stanton Co., Norwich, Conn.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wilcox, Crittenden & Co. (Galvanized Iron or Brass), Middletown, Conn.
Williams, A. C. Co., Ravenna, O.
Wire Hardware Co., 1824 Besly court, Chicago, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 4827—Hooks (Coat & Hat, Wire)

Atlas Mfg. Co. ("Bradley," "L. J.," "Little Joker"), New Haven, Conn.
Bromwell Co., Cincinnati, O.
Columbian Hardware Co. ("Gem" Anti-Rust), Cleveland, O.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Jenckes, E. Mfg. Co. ("Crescent" & "Invisible"), Worcester, Mass.
Morgan Spring Co. ("Eclipse"), Worcester, Mass.
National Mfg. Co. ("Crown," "Favorite"), Sterling, Ill.
National Mfg. Co., Worcester, Mass.
National Screw & Tack Co., Cleveland, O.
Ossawan Mills Co., Norwich, Conn.
Parker Wire Goods Co., Worcester, Mass.
Progressive Wire Goods Co., 528 Commerce, Phila., Pa.
Shelby Spring Hinges Co., Shelby, O.
Western Wire Goods Co., Buffalo, N. Y.
Wire Goods Co. (Brass & Steel), Worcester, Mass.
Wire Hardware Co., 1824 Besly court, Chicago, Ill.
Williamson, C. F. Wire Novelty Co., Newark, N. J.

## 4828—Hooks (Coke Scraper)

Oliver Iron & Steel Co., Pittsburg, Pa.

## 4829—Hooks (Conductor Pipe)

**BERGER MFG. CO., THE, Canton, O.** (See adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W Congress, Detroit, Mich.** (See adv. index, end of book)
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
Iwan Bros., South Bend, Ind.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Vaughn & Bushnell Mfg. Co. ("V.& B." Drop Forged), 2130 Carroll av, Chicago, Ill.

## 4830— Hooks (Corn)

American Fork & Hoe Co. ("Cut Easy," "Yankee," "Acme"), Cleveland, O.
American Axe & Tool Co., Glassport, Pa.
Clyde Cutlery Co., Clyde, O.
Columbian Cutlery Co., Reading, Pa.
Earle, H. S. Mfg. Co., Detroit, Mich.
Goodell Co. (Adjustable), Antrim, N. H.
National Saw Co., Newark, N. J.
Nolin Mfg. Co., Skowhegan, Me.
North Wayne Tool Co. ("C. C. Brooks' "), Hallowell, Me.
Russell & Erwin Mfg. Co., New Britain, Conn.
Wallingford Mfg. Co. ("Barden's 20th Century," "Carver's," "Handy," "Cyclone"), Wallingford, Vt.
Washington Cutlery Co., Watertown, Wis.

## 4831— Hooks (Cornice)

Hamblin & Russell Mfg. Co., Worcester, Mass.
Jenckes, E. Mfg. Co. (Bright Wire Hooks & Eyes), Worcester, Mass.

## 4832—Hooks (Cotton & Box)

**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Bradley's, G. W. Sons, Westport, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
Drew, C. & Co., Kingston, Mass.
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Falls Mfg. Co. (Hay, Bale, Box & Cargo Hooks), 360 Fremont, San Francisco, Cal.
Humason & Beckley Mfg. Co., New Britain, Conn.
**Johnson, Wm. (Hedenberg Works), Newark, N. J.**
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mostberger Iron Co., Buffalo, N. Y.
Moulton, C. W. H. Co., Somerville, Mass.
New London Vise Works (Bale, Box, Can, Barrel, etc.), New London,, Conn.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.
Swineford, G. A. Co., Canton, O.
Vaughn & Bushnell Mfg. Co. ("V. & B." Wood or Steel Handle), 2130 Carroll av, Chicago, Ill.
Vulcan Tool Mfg. Co., Quincy, Mass.
Watson, Thomas ("Butler's"), 557 W. 35th, New York
Wilcox, Crittenden & Co., Middletown, Conn.
Williams, A. C. Co., Ravenna, O.
Zering, H. Mfg. Co., Cincinnati, O.

## 4833—Hooks (Crate & Basket)

Holland Mfg. Co., Baltimore, Md.
Morgan Spring Co., Worcester, Mass.

## 4834—Hooks (Cup & Tumbler)

Wire Hardware Co. (Bright & Brass), 1824 Besly court, Chicago, Ill.

## 4835— Hooks (Drapery)

**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 4836— Hooks (Drive)

Grabler Mfg. Co., Cleveland, O.

## 4837— Hooks (Fire Pail)

Jenckes, E. Mfg. Co., Worcester, Mass.

## 4838— Hooks (Floor)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.

## 4839 Hooks (Gaff)

Meisselbach, A. F. & Bro., Newark, N. J.

## Hooks (Gate)

(See Hooks & Eyes, Gate)

## 4840— Hooks (Grab)

**AMERICAN HOIST & DERRICK CO.** (Forged Steel), St. Paul, Minn. (See adv. index & branch offices, end of book)
American Logging Tool Co., 150 Michigan av, Chicago, Ill.
Branch Saw Co., St. Louis, Mo.
Byers, Jno. F. Machine Co. (Or Chain), Ravenna, O.
Champion Tool & Handle Co., Evart, Mich.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, New York.** (See adv. index & branch offices, end of book)
Hayden-Corbett Chain Co. (For Log Chains, Seneca Chain Co., Kent, O. etc.), Columbus, O.
**TERRY & TENCH CO. (Inc.) (Hook & Chain),** Grand Central Terminal, New York. (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.** (Steel Hooks & Chains), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wallingford Mfg. Co. ("Borden's"), Wallingford, Vt.

## 4841—Hooks (Grape Grubbing)

Munnsville Plow Co., Munnsville, N. Y.

## 4842— Hooks (Grapple)

American Logging Tool Co., 150 Michigan av, Chicago, Ill.

## 4843— Hooks (Grass)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
Atkins, E. C. & Co., Indianapolis, Ind.
Clark & Parsons Co. ("Blue Ribbon"), Oakland, Me.
Columbian Cutlery Co., Reading, Pa.
Dunn Edge Tool Co., Oakland. Me.
Earle, H. S. Mfg. Co. ("Little Giant"), Detroit, Mich.
Knickerbocker Mfg. Co. ("American," "New York"), Belleville, N. J.
Mack & Co., Rochester, N. Y.
Nolin Mfg. Co. ("Nolin," "Crescent" & "Concave"), Skowhegan, Me.
North Wayne Tool Co. ("H. S. Earle's Little Giant"), Hallowell, Me.
Russell & Erwin Mfg. Co., New Britain, Conn.
Wadsworth, D. & Son, Auburn, N. Y.
Wallingford Mfg. Co. ("Barden's," "Ideal," "Gem"). Wallingford, Vt.
Washington Cutlery Co., Watertown, Wis.

## 4844— Hooks (Guy Wire)

**LESCHEN, A. & SONS ROPE CO.** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## 4845— Hooks (Hammock)

Adams, A. L., Cedar Rapids, Ia.
**ARCADE MFG. CO. (Hand Forged),** Freeport, Ill. (See adv. index, end of book)
Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Brooks, M. S. & Sons (Wrought), Chester, Conn.
Corbin, P. & F., New Britain, Conn.
Hazel-Atlas Glass Co., Wheeling, W. Va.
Jenckes, E. Mfg. Co. (Wrought). Worcester, Mass.
Keystone Drop Forge Co. (Drop Forged), Chester, Pa.
Landers, Frary & Clark, New Britain, Conn.
National Mfg. Co. (Wrought Steel, On Plate or Screw), Sterling, Ill.
North & Judd Mfg. Co., New Britain, Conn.
Palmer, I. E. Co. (Adjustable), Middletown, Conn.
Parker Wire Goods Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Richards, T. C. Hardware Co. (Wrought Iron), Winsted, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co., Freeport, Ill.
Tie Co., Unadilla, N. Y.
Western Wire Goods Co., Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.
Wire Goods Co. (Wrought), Worcester, Mass.
Wire Hardware Co., 1824 Besly court, Chicago, Ill.

## 4846— Hooks (Hanging)

Oliver Iron & Steel Co., Pittsburg, Pa.

## 4847— Hooks (Harness)

American Casting Co., Birmingham, Ala.
American Foundry & Mfg. Co., St. Louis, Mo.
**ARCADE MFG. CO. (Japanned),** Freeport, Ill. (See adv. index, end of book)
Ashtabula Mfg. Co., Ashtabula, O.
Brooks, M. S. & Sons, Chester, Conn.
Covert Mfg. Co., Troy, N. Y.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Falls Mfg. Co. (For Fire Dept. Harness, etc.), San Francisco, Cal.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Heath Foundry & Mfg. Co., Plymouth,
Imperial Bit & Snap Co. ("Swan's," etc.), Racine, Wis.
Jenckes, E. Mfg. Co. (Steel Mill), Worcester,
Kramer Bros. Foundry Co., Dayton, O. Mass.
Lawrence Bros. (Wrought Steel), Sterling, Ill.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.

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National Mfg. Co., Sterling, Ill.
Ney Mfg. Co., Canton, O.
North & Judd Mfg. Co., New Britain, Conn.
Oliver Iron & Steel Co. (Hame Hooks), Pittsburg, Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
**Penn Hardware Co., Reading, Pa.**
**Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.**
**Reading Hardware Co., Reading, Pa.**
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Sharon Hdw. Mfg. Co. (All Steel), Sharon, Pa.
South Bend Foundry Co., South Bend, Ind.
Sovereign, C. E. Co., Rockford, Ill.
Stover Mfg. Co. (Cast Iron), Freeport, Ill.
Stowell Mfg. & Fdry Co., So. Milwaukee, Wis.
Susquehanna Castings Co., Wrightsville, Pa.
Swett, A. L. Iron Works, Medina, N. Y.
Weller Hdw. & Fdry Co., Horseheads, N. Y.
Williams, A. C. Co., Ravenna, O.
Wire Goods Co. (Wire), Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

## 4848— Hooks (Hay)

**BUFFUM TOOL CO. Louisiana, Mo.** (See adv. index & branch offices, end of book)
Lowentraut, P. Mfg. Co., Newark, N. J.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Schlueter, M. L., 103 N Canal, Chicago, Ill.
Vaughn & Bushnell Mfg. Co. ("V. & B." Steel"), 2130 W Carroll av, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

## 4849— Hooks (Hitching)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.

## 4850 Hooks (Hoist)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit. Mich.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Western Tool & Forge Co. (With Eye & Shank), Brackenridge, Pa.

## 4851— Hooks (Hoof)

Osborne, C. S. & Co., Harrison, N. J.

## 4852— Hooks (Ice)

American Fork & Hoe Co. (Steel), Cleveland, O.
Gifford-Wood Co., Hudson, N. Y.
Hiles, C. A. & Co., 14th & Western av, Chi-
Oshkosh Mfg. Co., Oshkosh, Wis. cago, Ill.
Stortz, John & Son, 210 Vine, Phila., Pa.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 4853— Hooks (Insulating)

Ajax Line Material Co., So. Milwaukee, Wis.
Anderson, Albert & J. M. Mfg. Co., Boston,
Bissell, F. Co. ("Security"), Toledo, O. Mass.
Brooks, M. S. & Sons, Chester, Conn.
Cutter, Geo. Co., South Bend, Ind.
**DIAMOND EXPANSION BOLT CO.** ("D-X," Bridle Rings), 90 West. New York. (See adv. index, end of book)
Pettingell, Andrews Co. ("O'Neil"), Boston, Mass.

## 4854— Hooks (Jack)

Jenckes, E. Mfg. Co. (Screw, Single & Double Jointed), Worcester, Mass.

## 4855— Hooks (Klinker)

United States Wire Mat Co. ("U. S.," Wrought & Malleable Steel), Decatur, Ill.

## 4856 Hooks (Ladder)

Boston Bolt & Iron Co., Boston. Mass.
Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Moulton, C. W. & Co., Somerville, Mass.
Taplin Mfg. Co., New Britain, Conn.
**TAYLOR, JAS. L. MFG. CO. (Refined** Iron, for Painters & Builders), Poughkeepsie. N. Y. (See adv. index, end of book)
Tilley, John S., Watervliet, N. Y.
Underhill, Chas. L., Somerville, Mass.

## 4857— Hooks (Lamp)

Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.

## 4858— Hooks (Lug)

American Logging Tool Co., 150 Michigan av, Chicago, Ill.
Branch Saw Co., St. Louis, Mo.

## 4859—Hooks (Lumbermen's)

American Logging Tool Co., 150 Michigan av, Chicago, Ill.
Branch Saw Co., St. Louis, Mo.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Co., (Lug, Grappling, Swamp, etc.), Evart, Mich.
Lufkin Foundry & Machine Co. ("Martin," Log Loading), Lufkin, Tex.
Oshkosh Mfg. Co. (Lug, Grappling, Swamp, etc.), Oshkosh, Wis.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Warren Axe & Tool Co. (Lug. Grapple, Swamp, etc.), Warren, Pa.

## 4860— Hooks (Meat)

Auer, John, Jr., 199 Middleton, Brooklyn, N. Y.
Brecht, G. V. Butcher Supply Co., St. Louis, Mo.
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Enterprise Mfg. Co. (Detachable), 3d & Dauphin, Phila., Pa.
Grabler Mfg. Co., Cleveland, O.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hazel-Atlas Glass Co., Wheeling, W. Va.
Humason & Beckley Mfg. Co. (Wrought), New Britain, Conn
Jenckes, E. Mfg. Co. (Wrought), Worcester, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Vaughn & Bushnell Mfg. Co. ("V. & B." Steel"), 2130 W Carroll av, Chicago, Ill.
White, L. & I. J. Co. (Selecting), Buffalo, N. Y.
Wire Goods Co. (Wrought), Worcester, Mass.

## Hooks (Moulding)

(See Hooks, Picture)

## 4861— Hooks (Packing)

**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
Mound Tool & Scraper Co., St. Louis, Mo.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's" Lightning & Improved Old Style), 48 Franklin, New York. (See adv index, end of book)

## 4862— Hooks (Picture)

American Ring Co., Waterbury, Conn.
Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa
Brooks, M. S. & Sons (Also Brass Tassel Hooks, etc.), Chester, Conn.
Forsyth Mfg. Co. ("Uncle Sam," "Beauty," "Big Giant." "Orient"). Buffalo, N. Y.
Goertz, August & Co. ("Handihook"), Newark,
Jenckes, E. Mfg. Co., Worcester, Mass. N. J.
Judd, H. L. Co., 87 Chambers, New York
Novelty Mfg. Co., Waterbury, Conn.
Parker Wire Goods Co., Worcester, Mass.
Peckham, John A., New Haven, Conn.
Richards, T. C. Hardware Co., Winsted, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Turner & Stanton Co. (Brass), Norwich, Conn.
Western Wire Goods Co., Buffalo, N. Y.
Williamson, C. T. Wire Novelty Co., Newark, N. J.
Wire Goods Co. (Brass, etc.), Worcester, Mass.

## 4863— Hooks (Pipe)

(See also Hangers, Pipe)

Avery Stamping Co. ("Never-Break" Steel Plates). Cleveland, O.
Berger Bros. Co., 237 Arch, Phila., Pa.
Boston Bolt & Iron Co., 40 Farnsworth, Boston, Mass.
Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Central Foundry Co., 90 West, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Devlin, Thos. Mfg. Co. ("Eclipse"), 3d & Lehigh av, Phila., Pa.
Exeter Machine Works, Exeter, N. H.
Falls Mfg. Co., 360 Fremont, San Francisco, Cal.
Fee & Mason, 81 Beekman, New York
Grabler Mfg. Co. (Steel), Cleveland, O.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lange, August K., 606 E 15th, New York
Moore, Joshua, Marseilles, Ill.
Mott, J. L. Iron Works, 118 5th av, New York
Newbury Mfg. Co., Monroe, N. Y.
New England Bolt & Steel Co. (Pipe Hooks), 3 Charlton, Everett, Mass.
Reed Mfg. Co. ("Clark"), Erie, Pa.
Reznor Mfg. Co., Mercer, Pa.
Sargent & Co., New Haven, Conn.
Walworth Mfg. Co., Boston, Mass.
West Penn Plating & Mfg. Co., N. S., Pittsburg, Pa.

## 4864—Hooks (Potato, Manure, Etc.)

American Fork & Hoe Co., Cleveland, O.
Kohler, F. E. & Co. (Potato), Canton, O.
Russell & Erwin Mfg. Co. (Potato Only), New Britain, Conn.
Union Fork & Hoe Co., Columbus, O.

## 4865— Hooks (Pulley)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 4866—Hooks ("S" or "Eight")

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Brooks, M. S. & Sons (Iron or Brass Wire), Chester, Conn.
Grammes, L. F. & Sons, Allentown, Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Jenckes, E. Mfg. Co. (Brass & Bright Wire), Worcester, Mass.
Morgan Spring Co., Worcester, Mass.
**NIAGARA FALLS METAL STAMPING** Works ("S" Hooks), Niagara Falls, N. Y. (See adv. index, end of book)
Plume & Atwood Mfg. Co., Waterbury, Conn.
Russell & Erwin Mfg. Co. (Wrought), New Britain, Conn.
Smith, F. F. Metal Window Hardware Co., Newark, N. J.
Smith & Egge Mfg. Co., Bridgeport, Conn.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.
Wire Goods Co., Worcester, Mass.

## 4867—Hooks (Safety, for Mine Cages)

Wellman-Seaver-Morgan Co., Cleveland, O.

## 4868—Hooks (Sash Curtain Rod)

Jenckes, E. Mfg. Co. (Brass Plated, etc.), Worcester, Mass.

## 4869— Hooks (Sash Pull)

Ives, H. B. Co., New Haven, Conn.
Reading Hardware Co., Reading, Pa.

## 4870—Hooks (School House)

Jenckes, E. Mfg. Co., Worcester, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.
Wrightsville Hardware Co., Wrightsville, Pa.

## 4871— Hooks (Screw)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Brooks, M. S. & Sons (Iron & Brass Wire), Chester, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Humason & Beckley Mfg. Co., New Britain, Conn.
Jenckes, E. Mfg. Co. (Brass & Bright Wire, Open Screw, Strap & Hook & Single & Double Jointed), Worcester. Mass.
Lawrence Bros. (Wrought Steel), Sterling, Ill.
Russell & Erwin Mfg. Co. (Brass Wire), New Britain, Conn.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.
Wire Goods Co. (Bright Wire & Brass Wire), Worcester, Mass.
Wire Hardware Co. (Brass), 1824 Besly court, Chicago, Ill.

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## 4872— Hooks (Shackle)

Cleveland Block Co., Cleveland, O.
Cleveland Chain & Mfg. Co., Cleveland, O.
Columbus Anvil & Forging Co., Columbus, O.
Harvey Forging Co., Racine, Wis.
Keystone Drop Forge Works ("Keystone." Safety), Chester, Pa.
Krein Mfg. Co., Wapakoneta, O.
Marine Hardware & Equipment Co., S. Portland, Me.
Seneca Chain Co., Kent, O.
Williams, J. H. Co., 150 Hamilton av, Brooklyn, N. Y.

## 4873— Hooks (Shave)

**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Bissell, F. Co., Toledo, O.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.

## Hooks (Shoe & Glove)

(See Hooks, Button)

## 4874— Hooks (Sign)

Brewer Bros. (Wrought Iron), 614 Filbert, Philadelphia, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.

## 4875— Hooks (Snap)

Billings & Spencer Co. ("Billings" Drop Forged, Rein, Pole & Chain), Hartford, Conn.
Draper & Hall Co. ("Hayes" Lock), Middletown, Conn.
Hayward, S. F. & Co. (Fire Dept.), 39 Park pl, New York
Wilson, Robert P. (Double Ball-Bearing), Newark, N. J.

## 4876— Hooks (Stable Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

## 4877— Hooks (Stay Chain)

Oliver Iron & Steel Co., Pittsburg, Pa.

## 4878— Hooks (Strap)

Jenckes, E. Mfg. Co., Worcester, Mass.

## 4879— Hooks (Sweat Pad)

Thomson, Judson L. Mfg. Co., Waltham, Mass.

## 4880— Hooks (Swivel)

Wilcox, Crittenden & Co. (Drop Forged), Middletown, Conn.

## 4881— Hooks ("T")

Jenckes, E. Mfg. Co., Worcester, Mass.

## 4882— Hooks (Tag)

Morgan Spring Co., Worcester, Mass.
Wire Specialty Works ("Ideal"), 551 Fulton, Chicago, Ill.

## Hooks (Tassel)

(See Hooks, Picture)

## 4884—Hooks (Telephone Hanger)

Morgan Spring Co., Worcester, Mass.
Wire Specialty Works, 551 Fulton, Chicago, Ill.

## 4885— Hooks (Towing)

Chase Machine Co. (Releasing), Cleveland, O.

## 4886— Hooks (Weeding)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Rocky Hill Hardware Co., Rocky Hill, Conn.
Hills, Edwin, Plainville, Conn.
Kohler, F. E. & Co., Canton, O.
Stover Mfg. Co., Freeport, Ill.

## 4887— Hooks (Whiffletree)

Akron-Selle Co., Akron, O.
Giblin & Co., Utica, N. Y.
Harvey Forging Co., Racine, Wis.
Paul & Fulton Co., 59 W Quincy, Chicago, Ill.
**Pratt, Wm. E. Mfg. Co.,** 91 Lake, Chicago, Ill.
Union Forging Co., Union, N. Y.

## 4888—Hooks (Window Pole)

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

## 4889— Hooks (Wire)

Brooks, M. S. & Sons (All Kinds, Brass & Iron), Chester, Conn.
Grammes, L. F. & Sons, Allentown, Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Jenckes, E. Mfg. Co., Worcester, Mass.
Merritt, F. M., Penn Yan, N. Y.
Wire Goods Co. ("Drive"), Worcester, Mass.

## 4889a— Hooks (Wire Rope)

**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)

## 4890—Hooks & Eyes (Brace)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.

## 4891—Hooks & Eyes (Brass & Steel)

American Pin Co., Waterbury, Conn.
Wire Goods Co., Worcester, Mass.

## 4892—Hooks & Eyes (Dress)

American Pin Co., Waterbury, Conn.
Automatic Hook & Eye Co., Hoboken, N. J.
Bi-Lock Hook & Eye Co., Rochester, N. Y.
De Long Hook & Eye Co., Broad & Wallace, Phila., Pa.
Francis Mfg. Co., Niagara Falls, N. Y.
Star Pin Co., Shelton, Conn.
Sterling Pin Co., Derby, Conn.
U. S. A. Co., Shelton, Conn.

## 4893—Hooks & Eyes (Gate)

Brooks, M. S. & Sons, Chester, Conn.
Covert Mfg. Co., Troy, N. Y.
Covert's Saddlery Works, Interlaken, N. Y.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Humason & Beckley Mfg. Co., New Britain, Conn.
Jenckes, E. Mfg. Co. (Brass & Bright Wire, etc.), Worcester, Mass.
National Mfg. Co. Sterling, Ill.
Parker Wire Goods Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Western Wire Goods Co., Buffalo, N. Y.
Wire Goods Co., Worcester, Mass.

## 4894—Hooks & Eyes (Tent)

Wilcox, Crittenden & Co. (Brass), Middletown, Conn.

## 4895—Hooks & Rings (Plate)

Wilcox, Crittenden & Co., Middletown, Conn.

## 4896—Hooks & Tees (Chain)

Dayton Malleable Iron Co., Dayton, O.
New Castle Forge & Bolt Co., New Castle, Pa.

## 4896a— Hoop Rounders

**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

## 4897— Hoops (Mast)

Laughlin, Thos. Co. (Galvanized Wrought Iron), Portland, Me.
McMillan's, W. H. Sons, 153 South, New York
Moffitt, J. D., Scotland, Conn.

## 4898—Hoops (Slack Barrel)

Carnegie Steel Co. (Steel), Pittsburg, Pa.

## 4899— Hoops (Truss)

Cincinnati Truss Hoop Co. (Iron & Steel Barrel), 115 W 2d, Cincinnati, O.
Globe Mfg. Co., Anderson, Ind.
Nunning, Frank & Son, 215 W 2d, Cincinnati, O.
Wabash Truss Hoop Co. ("Champion"), Mt. Carmel, Ill.
White, L. & I. J. Co., Buffalo, N. Y.

## 4900— Hoops (Wire)

**AMERICAN STEEL & WIRE CO.,** Commercial National Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Henning, E. (Twisted, for Slack Barrels), 143 Lasalle, Chicago, Ill.
Pittsburg Spiral Wire Hoop Co. (Spiral), Pittsburg, Pa.

## 4901—Hoppers (Ash, Cement & Coal)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 4902— Hoppers (Clay)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 4902a—Hoppers (Concrete Receiving)

**INSLEY MFG. CO., Indianapolis, Ind.** (See adv. index & branch offices, end of book)

## 4903—Hoppers for Power Plants

Hamler Boiler & Tank Co., 39th & Halsted, Chicago, Ill.
Pollock, Wm. B. Co. (Large Capacity), Youngstown, O.
Sharon Boiler Works, Sharon, Pa.

## 4903a— Hoppers (Grain)

(See Hoppers, Loading)

## 4904— Hoppers (Loading)

Barnard & Leas Mfg. Co. (On Trucks, for Grain, etc.), Moline, Ill.
Dodge Mfg. Co., Mishawaka, Wis.
**INSLEY MFG. CO. (Portable & Con**trollable Car-Side for Sand & Gravel), Indianapolis, Ind. (See adv. index & branch offices, end of book)
National Boiler & Sheet Iron Works, Indianapolis, Ind.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 4905— Hoppers (Weighing)

Holmes, Robt. & Bros. (Double Door, Coal), Danville, Ill.

## 4906— Horns (Automobile)

Automobile Supply Mfg. Co. ("Consone," "Sonora"), 220 Taaffe pl, Brooklyn, N. Y.
**BARCO BRASS & JOINT CO. (Ex**haust), 226 N Jefferson, Chicago, Ill. (See adv. index, end of book)
Dean Electric Co. (Electric), Elyria, O.
Electric Auto Horn Co., Pittsburg, Pa.
Funke, A. H., 83 Chambers, New York
Gabriel Horn Mfg. Co., Cleveland, O.
Hawthorne Mfg. Co. (Dragon, Comet & Electric Type), Bridgeport, Conn.
Lovell-McConnell Mfg. Co. ("Klaxon"), 47 B'way, New York
Mechanical Specialties Co. (Electric), 684 Hancock, Brooklyn, N. Y.
Miller, Chas. E. (Imported), 97 Reade, New York
Motor Car Equipment Co., 55 Warren, New York
Post & Lester Co. ("Volier"), Hartford, Conn.
Riley-Klotz Mfg. Co., Newark, N. J.
Sparks, Withington Co. (Electric), Jackson, Mich.
Stevens & Co. ("Esco"), 373 B'way, New York
Twentieth Century Mfg. Co. ("Twentieth Century"), 19 Warren, New York
Willis, E. J. Co., 10 Park pl, New York

## 4907— Horns (Electrical)

Holtzer-Cabot Electric Co., Brookline, Mass.
O'Brien Electrophone Co., Hallowell, Me.

## 4908— Horns (Fog)

(See also Whistles, Automobile & Motor Boat)
Dover Stamping & Mfg. Co. ("Dover"), Cambridge, Mass.
Funke, A. H., 83 Chambers, New York
Lothrop, L. D. & Son, Gloucester, Mass.
Motor Car Equipment Co., 55 Warren, New York
Willis, E. J. Co., 10 Park pl, New York

## 4909—Horns (Phonograph)

Hawthorne Mfg. Co., Bridgeport, Conn.

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## 4910— Horse Powers

(See also Horse Powers, Tread; also Powers, Dog, Sheep, Etc.; also Horse Powers, Contractors')

Alamo Iron Works, San Antonio, Tex.
Advance Thresher Co., Battle Creek, Mich.
Aultman & Taylor Machinery Co., Mansfield, O.
Barnard & Leas Mfg. Co., Moline, Ill.
Bell, C. S. Co., Hillsboro, O.
Bodley Wagon Co., Memphis, Tenn.
Case, J. I. Threshing Machine Co., Racine, Wis.
Cardwell Machine Co., Richmond, Va.
Challenge Co. (Sweep), Batavia, Ill.
Clark, C. L. ("Union," "Bay State"), St. Johnsburg, Vt.
Collins Plow Co. (4 to 6 Horse Triple Geared), Quincy, Ill.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.** (Contractors'), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Ellis Keystone Agricultural Works (Lever, Iron Frame), Pottstown, Pa.
Eureka Bark Mills Co., Lancaster, Pa.
Farquhar, A. B. Co., York, Pa.
Freeman, S. & Sons Mfg. Co. (Sweep & Overhead), Racine, Wis.
Gehl Bros. Mfg. Co., West Bend, Wis.
Geiser Mfg. Co., Waynesboro, Pa.
Globe Foundry & Machine Co., Sheboygan, Wis.
Gowanda Agricultural Works, Gowanda, N. Y.
Gray's, A. W. Sons, Middletown, Vt.
Greenville Implement Co., Greenville, Mich.
Harrison Machine Works, Belleville, Ill.
Hart Grain Weigher Co. (Steel), Peoria, Ill.
Heebner & Sons, Lansdale, Pa.
Hildreth Bros., Harvard, Mass.
Howell, R. R. & Co., Minneapolis, Minn.
Huber Mfg. Co., Marion, O.
International Harvester Co. of America, Chicago, Ill.
Keystone Farm Machine Co., York, Pa.
Kline, Lewis T., Alpena, Mich.
Lehr Agricultural Co., Fremont, O.
Lyon Iron Works, Greene, N. Y.
McLean, J. H. Co., Canton, O.
Marseilles Mfg. Co. (And Jacks), East Moline, Ill.
Messinger Mfg. Co., Tatamy, Pa.
New Winona Mfg. Co. ("Diamond"), Winona, Minn.
Nichols & Shepard Co. (Steel Frame), Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Portable Elevator Mfg. Co., Bloomington, Ill.
Power Appliance Mfg. Co., Minneapolis, Minn.
Rowell, I. B. Co., Menomonee Falls, Wis.
St. Albans Foundry & Implement Co. (Sweep & Tread), St. Albans, Vt.
Salem Iron Works, Winston-Salem, N. C.
Sandwich Mfg. Co. ("Samson," Sweep), Sandwich, Ill.
Smith & Pomeroy Wind Mill Co., Kalamazoo, Mich.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Stover Mfg. Co., Freeport, Ill.
Warner Elevator Mfg. Co., Warner, Ill.
Wenzelman Mfg. Co., Galesburg, Ill.
Wilder-Strong Implement Co., Monroe, Mich.

## 4911—Horse Powers (Contractors')

**AMERICAN HOIST & DERRICK CO.** (Duplex Geared, etc.), St. Paul, Minn. (See adv. index & branch offices, end of book)
**DOBBIE FOUNDRY & MACHINE CO.**, Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

## 4912—Horse Powers (Tread)

Appleton Mfg. Co., Batavia, Ill.
Belle City Mfg. Co., Racine, Wis.
Ellis Keystone Agricultural Works, Pottstown, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Gowanda Agricultural Works Co. (Dog or Sheep Power), Gowanda, N. Y.
Messinger Mfg. Co. ("The Reynolds" Horse or Baby), Tatamy, Pa.
St. Albans Foundry & Implement Co., St. Albans, Vt.
Sandwich Mfg. Co., Sandwich, Ill.
Smalley Mfg. Co. (Sweep), Manitowoc, Wis.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Star Mfg. Co., Carpentersville, Ill.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Whitman Agricultural Co., St. Louis, Mo.

## Horse Shoe Calks

(See Toe Calks, Steel)

## 4913— Horse Stocks

Wabash Foundry & Machine Co. (For Handling Wild & Vicious Horses, etc.), Wabash, Ind.

## 4913a—Horses (Steel Folding)

**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index, end of book)

## 4914— Horses (Towel)

Church, C. F. Mfg. Co., Holyoke, Mass.

## 4915— Hose (Acid)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co., Bloomfield, N. J.
Electric Hose & Rubber Co., Wilmington, Del.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** adv. index & branch offices, end of book)
New York Metal Hose Co. (Flexible Galvanized Steel), 42 B'way, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co. ("Revere"), Boston, Mass.
Sayen Rubber Co., Hamilton Square, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4916— Hose (Air Brake)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
Diamond Rubber Co., Akron, O.
Electric Hose & Rubber Co., Wilmington, Del.
Empire Rubber Mfg. Co., Trenton, N. J.
Eureka Fire Hose Co., 13 Barclay, New York
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Hewitt Rubber Co., Buffalo, N. Y.
Mechanical Rubber Co., 73 Reade, New York
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
New York Metal Hose Co. (Flexible Metallic), 42 B'way, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Co. 16 Warren, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., 77 Bedford, Boston, Mass.
Sayen Rubber Co., Hamilton Square, N. J.
Sprague Electric Co., 527 W 34th, New York
United & Globe Rubber Mfg Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.
Wood, Guilford (Flexible Metallic), Great Northern bldg, Chicago, Ill.

## 4917— Hose (Air Drill)

**BOSTON BELTING CO., 260 Devon**shire, Boston, Mass. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Pneumatic Tool Co. ("Veri-Best"), 6410 Hawthorne av, Cleveland, O.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
Diamond Rubber Co., Akron, O.
Electric Hose & Rubber Co., Wilmington, Del.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO. 11 B'way,** New York. (See adv. index & branch offices, end of book)
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
New York Metal Hose Co. (Flexible Metallic), 42 B'way, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co. ("Daniel's", "Ebonite", "Crown", "Aero", "Girard"), 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Sayen Rubber Co., Hamilton Square, N. J.
Voorhees Rubber Mfg. Co. ("Boreas"), Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4918— Hose (Braided)

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4919— Hose (Brewers')

(See Hose, Garden, Steam, Mill, Etc.)

## 4920— Hose (Car Heating)

**BOSTON BELTING CO., 256 Devon**shire, Boston, Mass. (See adv. index, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co. ("U"), Bloomfield, N. J.
New York Metal Hose Co., 42 B'way, New York
Quaker City Rubber Co., 629 Market, Phila., Pa.

## 4921—Hose Carriages & Carts

Abbot-Downing Co., Concord, N. H.
American-LaFrance Fire Engine Co., Elmira, N. Y.
Hayward, S. F. & Co., 20 Warren, New York
New Departure Mfg. Co., Bristol, Conn.
Nott Fire Engine Co., Minneapolis, Minn.
Reading Fire Apparatus Works, Reading, Pa.
Stewart, A. F. & S. C., Rochester, N. Y.
Wirt & Knox Mfg. Co., 22 N 4th, Phila., Pa.
Woodhouse Mfg. Co., 50 W B'way, New York


**Hendricks' Commercial Register**

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## 4922—Hose (Chemical Engine)

**BOSTON BELTING CO., 256 Devonshire, Boston, Mass.** (See adv. index, end of book)

**Combination Rubber & Belting Co., Bloomfield, N. J.**

Electric Hose & Rubber Co., Wilmington, Del.

**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

Whitehead Bros. Rubber Co., Trenton, N. J.

## 4923—Hose Connections (High Pressure)

Howell, F. R. Brass Works (For Steam, Water, etc.), 122 N Franklin, Phila., Pa.

Sherwood Mfg. Co. (For Steam or Water), Buffalo, N. Y.

## 4924—Hose (Corrugated Tender)

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)**

Boston Woven Hose & Rubber Co., Cambridgeport, Mass.

**Combination Rubber & Belting Co., Bloomfield, N. J.**

Diamond Rubber Co., Akron, O.

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

**Morgan & Wright (Inc.), ("Morganite" Steam),** Detroit, Mich.

**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)

**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)

Quaker City Rubber Co., 629 Market, Phila., Pa.

Revere Rubber Co., Boston, Mass.

Sayen Rubber Co., Hamilton Square, N. J.

## 4925— Hose (Cotton)

Acme Rubber Mfg. Co. ("Admiral," "Commodore," "Ensign," "Gunner"), Trenton, N. J.

**BOSTON BELTING CO. ("Niagara,"** "Imperial," "Phoenix," "Crescent," "Excelsior," "American," "Underwriters"), 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Boston Woven Hose & Rubber Co. ("Black Line," "Boston Fire Jacket," "Bay State Jacket," "Vigo," "Perfection," "Cowen." "Paramount," "Royal," "Falcon," "O. K. Underwriters"), Cambridge, Mass.

Bowers Rubber Works ("Victor," "Reliance," "Guardian," "Defender"), San Francisco,

Boyle, Jno. & Co., 112 Duane, New York Cal.

**Combination Rubber & Belting Co., Bloomfield, N. J.**

Continental Rubber Works, Erie, Pa.

Crescent Belting & Packing Co., Trenton, N. J.

Diamond Rubber Co., Akron, O.

Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.

Empire Rubber Mfg. Co. ("Rival," "King," "Yale"), Trenton, N. J.

Eureka Fire Hose Co. (Seamless Rubber Lined), 13 Barclay, New York

Fabric Fire Hose Co., Duane & Church, New York


# HOSE

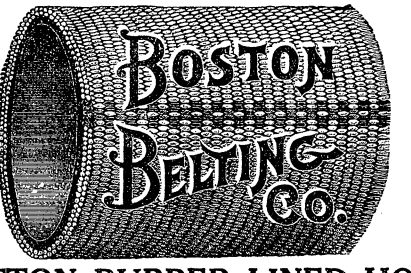
## Rubber—Cotton, Rubber Lined—Linen

**FOR WATER, STEAM, AIR, FIRE PROTECTION, SUCTION, GAS, PNEUMATIC TOOLS, ETC.**




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Seamless Rubber Tube. Special Cotton Yarns of great strength. High Grade Rubber throughout. Each ply is a circular braided fabric, seamless and complete in itself. This Hose is immensely strong, extremely flexible, practically non-kinkable. Highly satisfactory and economical from every standpoint.




### COTTON RUBBER LINED HOSE

We weave our own Cotton Fabrics and make and insert the Rubber Lining, giving the maximum hose value with only one manufacturers profit.

## Our American Underwriters Hose

TRADE MARK

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{ Linen, Unlined for Inside Use.

***Is a National Standard in Fire Protection Equipment.***

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NEW ORLEANS
CLEVELAND
PHILADELPHIA
PITTSBURG
SAN FRANCISCO
PORTLAND, ORE.


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**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co. ("Ajax"), 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Mechanical Rubber Co. ("Franklin," "Vernon," "Columbian," "Randolph," "Calumet," "Amazon," "Sterling"), 73 Reade, New York
Mineralized Rubber Co., 18 Cliff, New York
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO. ("Columbia," "Pennsylvania" Rubber Lined), Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co. (Rubber Lined), 629 Market, Phila., Pa.
Revere Rubber Co. (Rubber Lined, etc.), Boston, Mass.
Stokes, Joseph Rubber Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co. (Marline & Cotton Woven Cover, "Lafayette," "Rex," "Cartaret," "Model," "Cornell," "Pennant"), Jersey City, N. J.

## 4925a— Hose Covering

**BOSTON BELTING CO. (Cotton, Marline, Wire), 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 4926— Hose (Dredging)

**BOSTON BELTING CO., 256 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 4927— Hose (Fire)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
Boston Coupling Co. ("Reliance" Cotton Light and Heavy, etc.), Boston, Mass.
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Callahan, Cornelius Co. (Cotton), Boston, Mass
Chicago Fire Hose Co. (Cotton Rubber Lined), 54 La Salle, Chicago, Ill.
Cincinnati Rubber Mfg. Co. (Rubber), Cincinnati, O.
Combination Rubber & Belting Co., Bloomfield.
Continental Rubber Works, Erie, Pa. N. J.
Diamond Rubber Co., Akron, O.
Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.
Empire Rubber Mfg. Co. (Cotton, Rubber Lined), Trenton, N. J.
Eureka Fire Hose Co. ("Eureka," "Paragon," "Red Cross," "Surprise Jacket," "Peerless Jacket," "Eagle," Cotton, Rubber Lined; also Linen, Plain & Rubber Lined), 13 Barclay, New York
Fabric Fire Hose Co., Duane & Church, New York
**GOODRICH, B. F. CO. ("Marline" Woven Cotton, Rubber Lined, etc.), Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Jewell Belting Co., Hartford, Conn.
McIlroy Belting & Hose Co. (Fire Underwriters' Specifications), Hammond, Ind.
Manhattan Rubber Mfg. Co., 18 Vesey, New York, & Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York
Mineralized Rubber Co., 18 Cliff, New York
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
Multiple Woven Hose & Rubber Co. ("Bi-Moore," "Tri-Moore," "Blue Ribbon" & "Trump"), Worcester, Mass.
New Jersey Car Spring & Rubber Co. ("Tuebor," Rubber Lined, Cotton), Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), (Rubber & Cotton), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Niedner's, Chas. Sons Co. (Linen), Malden, Mass.
**PENNSYLVANIA RUBBER CO. ("Columbia," "Pennsylvania," Cotton, Rubber Lined; also Linen, etc.), Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co. ("Quaker City"), 629 Market, Phila., Pa.
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
**ROSSENDALE-REDDAWAY BELTing & Hose Co. (Linen), Newark, N. J.** (See adv. index, end of book)
Sayen, Osgood, Arcade bldg, Phila., Pa.
Sayen Rubber Co. (Rubber), Hamilton Square.
Stokes, Jos. Rubber Co., Trenton, N. J. N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., ("Rex," "Marshall," Cotton Rubber), Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4928—Hose (Flexible Metallic)

American Metal Hose Co. ("Ametalhose"), Waterbury, Conn.
New York Metal Hose Co., 42 B'way, New York
Pennsylvania Flexible Tubing Co. (Copper or Steel, High Pressure, with Asbestos Interlining), 1305 Arch, Phila., Pa.
Schoen-Jackson Co., Media, Pa.
U. S. Flexible Metallic Tubing Co. (Metal Hose), Los Angeles, Cal.
Voorhees Rubber Mfg. Co. (Armor), Jersey City, N. J.

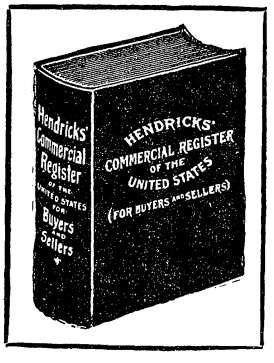
## 4929—Hose (Flexible Steel Armored)

Sprague Electric Co. (Steam or Air), 527 W 34th, New York

## 4930—Hose (Garden, Steam, Mill, Etc.)

(See also Hose, Fire)

Acme Rubber Mfg. Co., Trenton, N. J.
Ambrose & Spalding ("Primo"), 42 Michigan av, Chicago, Ill.
**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
**CARPENTER, GEO. B. & CO. (Mfrs. Agts.), 202 S Water, Chicago, Ill.** (See adv. index, end of book)
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Works, Cleveland, Ohio
Combination Rubber & Belting Co., Bloomfield,
Continental Rubber Works, Erie, Pa. N. J.
Crescent Belting & Packing Co., Trenton, N. J.
Diamond Rubber Co., Akron, O.
Dunbar, J. A. Mfg. Co., Northville, Mich.
Electric Hose & Rubber Co., Wilmington, Del.
Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.
Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York
Eureka Fire Hose Co. (Cotton & Linen), 13 Barclay, New York
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gorham Rubber Co., San Francisco, Cal.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO. (Rubber), Trenton, N. J.** (See adv. index & branch offices, end of book)
Knowlton, Geo. W. Rubber Co., 60 Pearl, Boston, Mass.
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Mechanical Rubber Co. (Rubber), 73 Reade, New York
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National India Rubber Co., Bristol, R. I.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York


It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of trade that comes within the scope of the work. : : : : : : : : :


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# Pennsylvania Rubber Company

JEANNETTE, PA.

MANUFACTURERS OF

# RUBBER GOODS

Vacuum Cup Tires, "Polack" Motor Truck Tires Hose, Packing, Matting, Gaskets

VALVES AND PLUMBERS' GOODS

FRUIT JAR RINGS INTERLOCKING TILING

BRANCHES:

NEW YORK, 1741 Broadway CHICAGO, 1241 Michigan Ave. DETROIT, 882 Woodward Ave.
PITTSBURGH, 505 Liberty Ave. MINNEAPOLIS, 67 S. Tenth St.
SAN FRANCISCO, 512 Mission St. LOS ANGELES, 930 S. Main St.


New York Metal Hose Co. (Flexible Metallic), 42 B'way, New York
**NEW YORK RUBBER CO. ("Wiccopee"),** Reade & Church, New York. (See adv. index, end of book)
Niedner's, Chas. Sons Co. (Linen), Malden, Mass.
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Republic Rubber Co., Youngstown, O.
Sayen Rubber Co., Hamilton Square, N. J.
Stokes, Jos. Rubber Co., Trenton, N. J.
Thermoid Rubber Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4931— Hose (Linen)

Bay State Belting Co., 43 High, Boston, Mass.
**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Combination Rubber & Belting Co., Bloomfield, N. J.
Empire Mfg. Co., Lockport, N. Y.
Empire Rubber Mfg. Co. (Unlined), Trenton, N. J.
Eureka Fire Hose Co. (Plain or Rubber Lined), 13 Barclay, New York
Fabric Fire Hose Co., Duane & Church, New York
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**Hayward, S. F. & Co., 39 Park pl, New York**
McIlroy Belting & Hose Co. (Fire Underwriters' Specifications), Hamond, Ind.
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Nieder's, Chas. Sons Co. (Fire), Malden, Mass.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**PENNSYLVANIA RUBBER CO. (Underwriters'),** Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co. (Underwriters), 629 Market., Phila., Pa.
Revere Rubber Co., Boston, Mass.
**ROSSENDALE-REDDAWAY BELTing & Hose Co.,** Newark, N. J. (See adv. index, end of book)
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 4932—Hose (Marline Woven)

**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)


When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.


## 4933— Hose (Oil)

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## Hose (Pneumatic Tool)

(See Hose, Air Drill)

## 4934— Hose (Protected)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Electric Hose & Rubber Co., Wilmington, Del.
**GOODRICH, B. F. CO. ("Wire Wrap"),** Akron, O. (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Revere Rubber Co., Boston, Mass.
Sayen, Osgood, Arcade bldg, Phila., Pa.
Sprague Electric Co. (Steel Armored), 527 W 34th, New York
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## Hose Reels & Racks

(See Reels & Racks, Fire Hose)


Hendricks' Commercial Register is not a catalog of advertisers alone, but a complete register of the manufacturers and jobbers in every line of trade that comes within the scope of the work

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## 4935– Hose (Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
Akron Rubber Co., Akron, O.
**BOSTON BELTING CO. ("Niagara," "Trimount," "Boston," "Universal," "Imperial," "Excelsior," "Phoenix"),** 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
**Boston Woven Hose & Rubber Co. ("Damascus," "Bull Dog," "Boston Terrier," "Dandy," "Bay State," "Tiger," "Olympia," "Invincible," "Wizard," "Leader," "Dauntless," "Vim," "Helmet," "Cowen," "Iron Brand," "Falcon," "Granger"),** Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Works, Cleveland, O.
**Combination Rubber & Belting Co. ("Indestructene," "Franklin"),** Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
**Crescent Belting & Packing Co. ("Hercules," "Capital," "Royal Flush"),** Trenton, N. J.
Diamond Rubber Co., Akron, O.
**Electric Hose & Rubber Co.,** Wilmington, Del.
**Empire Rubber Mfg. Co. ("Model," "Eagle," "Monitor," "Arrow," "Merrimac"),** Trenton, N. J.
Fabric Fire Hose Co., 127 Duane, New York
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goodyear Rubber Co. ("Gold Seal," "Pioneer"), 787 B'way, New York
Gorham Rubber Co., San Francisco, Cal.
**Gutta Percha & Rubber Mfg. Co. ("Ridgewood," "Wallabout"), 126 Duane, New York**
**Hamilton Rubber Mfg. Co., Trenton, N. J.**
**Hewitt Rubber Co., Buffalo, N. Y.**
**HOME RUBBER CO. ("Black Seal," "Tiger," "White Cross," "World," "N. B. O."),** Trenton, N. J. (See adv. index & branch offices, end of book)
**Manhattan Rubber Mfg. Co., 18 Vesey, New York**
**Mechanical Rubber Co. ("Monarch," "Bengal," "Beaver," "Competition," "Superior," "White," "Chicago"),** 230 Randolph, Chicago, Ill.
**Mercer Rubber Co., Trenton, N. J.**
**Mineralized Rubber Co., 18 Cliff, New York**
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
**National India Rubber Co. ("White Cross," "Neponset," "Oneko," "Pontiac," "Waukegan," "Sagamore," "Agawan," "Nokomis," "Ancher," "Seekonk," "Namquit," "Pequot," "Saranac," "Squantum," "Pomham"),** Bristol, R. I.
**New Jersey Car Spring & Rubber Co., Jersey City, N. J.**
New York Belting & Packing Co. ("1846 Para," "Carbon," "Double Diamond"). 91 Chambers. New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**Peerless Rubber Mfg. Co. ("Anaconda," "Lake Side," "Blue Ribbon," "Rainbow," "Sterling," "Reliance," "American"),** 16 Warren, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co. (Chas. A. Daniel, Prop.), **629 Market, Phila., Pa.**
**Republic Rubber Co. ("Sioux," "Mohoning," "Tower," "Chariot," "Hector," "Pedro," "Sanco," "Tonka"),** Youngstown, O.
Revere Rubber Co. ("Giant," "Granite," "Shawmut"), Boston, Mass.
**Stokes, Joseph Rubber Co. ("Majestic," "Celtic," "Rex," "Bristol," "Hustler"),** Trenton, N. J.
Thermoid Rubber Mfg. Co. ("Hercules," "Para," "White Crown"), Trenton, N. J.
**United & Globe Rubber Mfg. Co., Trenton, N. J.**
**Voorhees Rubber Mfg. Co. ("Bostwick," "Federal," "Pacific," "Sentinel," "Union," "Indian," "Celtic," "Saxon," "American," "Conqueror," "Contest"), Jersey City, N. J.**
**Waterbury Rubber Mfg. Co. ("Sphincter Grip"),** 75 Warren, New York
Whitehead Bros. Rubber Co. ("Competition," "Thistle," "Juno," "Clover," "Golden Rod," "Ivory," "Long Life"), Trenton, N. J.
**Woven Steel Hose & Cable Co. ("Protected"),** Trenton, N. J.

## 4936– Hose (Sand Blast)

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.**

## 4937–Hose (Sand Sucker)

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)

## 4938– Hose (Submarine)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., 18 Vesey, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 4939– Hose (Suction)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
**Combination Rubber & Belting Co., Bloomfield, N. J.**
Continental Rubber Works, Erie, Pa.
**Empire Rubber Mfg. Co., Trenton, N. J.**
**GOODRICH, B. F. CO. (Extra Heavy),** Akron, O. (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
New York Metal Hose Co. (Flexible Metallic), 42 B'way, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO. (Steel Clad, etc.),** Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Sayen Rubber Co. (On Spiral Brass Wire), Hamilton Square, N. J.
Whitehead Bros. Rubber Co. (Wire & Smooth Bore), Trenton, N. J.

## 4939a– Hose (Tank)

(See Hose, Garden, Steam, Mill, Etc.)

## 4940–Hose (Vacuum Cleaner)

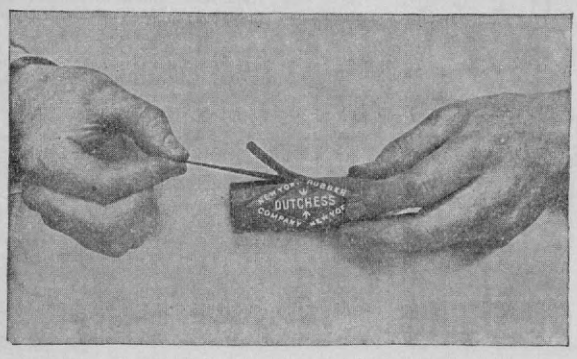
**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
**CONTINENTAL RUBBER WORKS,** Erie, Pa. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4941– Hose (Wine)

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
**Combination Rubber & Belting Co., Bloomfield, N. J.**
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)

## 4942– Hose (Wire Wound)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
**Combination Rubber & Belting Co., Bloomfield, N. J.**
Continental Ruber Works, Erie. Pa.
Diamond Rubber Co., Akron, O.

NOTE THE ELASTIC TUBE

# GARDEN HOSE

**New York Rubber Co., Mfrs.**
Incorporated 1851
Corner Reade and Church Streets
NEW YORK CITY


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**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., 18 Vesey, New York
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National India Rubber Co., Bristol, R. I.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO. (Armored & Flexible Armored).** Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Sayen, Osgood, Arcade bldg, Pittsburg, Pa.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 4943—Hot Water Beds for Operating Tables

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## Hotels Calls

(See Annunciators)

## Hotel Cooking Apparatus

(See Cooking Apparatus)

## 4944—Hotel-Ware (Polished Steel, Etc.)

Cleveland Stamping & Tool Co. ("Solid-Steel," Polished & Tinned), Hamilton av, cor E 53d, N E, Cleveland, O.

## House Numbers

(See Numbers & Letters, Metal)

## House Wreckers

(See Building Materials, Second Hand)

## 4945—House & Porch Trimmings, Etc.

(See Columns, Porch, Etc.; also Corner, Base & Head Blocks; also Doors, Hardwood & Veneered; also Grille, Fret & Lattice Work; also Interior Finish, Wholesale Manufacturers; also Lumber Manufacturers; also Mouldings, Various Kinds; also Ornaments, Wood; also Sash Door & Blinds; also Stair Builders' Supplies; also Wood Turnings, Various Kinds)

## 4945a—Houses (Knock-Down)

North American Construction Co., Bay City, Mich.

## 4946—Houses (Pole or Pilot)

Bissell, F. Co. ("Security"), Toledo, O.
Central Telephone & Electric Co., St. Louis, Mo.
Cook, Frank B., 240 W Lake, Chicago, Ill.
Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
Noblett, E. J. Co., West Pullman, Chicago, Ill.

## 4947—Hub Bands & Caps (Automobile)

Imperial Brass Mfg. Co. (Aluminum & Brass), 444 S Jefferson, Chicago, Ill.

## 4948—Hubs, Automobile (Ball & Roller Bearing)

American Ball Bearing Co., Cleveland, O.
American Ball Co., Providence, R. I.
American Die & Tool Co., Reading, Pa.
Bantam Mfg. Co., Bantam, Conn.
Garford Mfg. Co., Elyria, O.
Harris & Reed, 1510 W 15th, Chicago, Ill.
Jamesville Mfg. Co., Jamesville, N. Y.
Light Mfg. & Foundry Co., Pottstown, Pa.
**MERCHANT & EVANS CO. (Inc.)** 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Metal Products Co., Detroit, Mich.
Smith, A. O. Co., Milwaukee, Wis.
Standard Roller Bearing Co., N 48th c Girard av, Philadelphia, Pa.
Timken Roller Bearing Axle Co., Canton, O.
Weston-Mott, Flint, Mich.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 4949—Hullers (Clover & Alfalfa)

**Aultman & Taylor Machinery Co., Mansfield, O.**
Avery Co., Peoria, Ill.
Birdsall Mfg. Co., South Bend, Ind.
Gaar, Scott & Co., Richmond, Ind.
Geiser Mfg. Co., Waynesboro, Pa.
Newark Machine Co., Newark, O.
Nichols & Shepard Co., Battle Creek, Mich.
Reeves & Co. (Feeder & Blower), Columbus, Ind.
Rumely, M. Co., La Porte, Ind.

## Hullers (Coffee & Rice)

(See Rice & Coffee Hulling Machinery)

## 4950—Hullers (Cotton Seed)

Bauer Bros. Co., Springfield, O.
Cardwell Machine Co., Richmond, Va.
Diamond Huller Co. ("Diamond" Huller & Separator), Winona, Minn.
Livermore Foundry & Machine Co. ("Wells"), Memphis, Tenn.
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.

## 4950a—Hullers or Blanchers (Peanut)

Lambert Food & Machine Co., Marshall, Mich.

## 4951—Hullers (Pea & Bean)

Chattanooga Implement & Mfg. Co. (Pea), Chattanooga, Tenn.
Chisholm, Scott, Niagara Falls, N. Y.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Farrar Lumber Co., Dalton, Ga.
Huber Mfg. Co., Marion, O.
Owens, J. L. Co., Minneapolis, Minn.
Peerless Pea Huller Co., Dalton, Ga.
**SPRAGUE CANNING MACHINERY** Co. (Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Star Pea Machine Co., Chattanooga, Tenn.

## 4952—Hullers (Strawberry)

Windsor-Stephens & Co. ("Nip-It"), Waltham, Mass.

## Humidifying Apparatus

(See Textile Machinery)

## 4953— Humiditor

Brown Specialty Machinery Co. (For Radiators), Jackson boul & Clinton, Chicago, Ill.

## 4954—Humidifiers (Cigar & Tobacco)

Bishop-Babcock-Becker Co., Cleveland, O.
**GRISCOM-SPENCER CO., 90 West,** New York (See adv. index & branch offices, end of book)
National Selling Co., Allentown, Pa.
Wilke Mfg. Co., Anderson, Ind.

## 4955—Huskers & Shredders (Corn)

Adams Husker Co., Marysville, O.
Advance Thresher Co. (Eight & Twelve Roll), Battle Creek, Mich.
Appleton Mfg. Co., Batavia, Ill.
Brinkerhoff, A. W. & Sons ("Universal"), Upper Sandusky, O.
Case, J. I. Threshing Machine Co., Racine, Wis.
Clark, R. F. ("Clark"), 100 Lake, Chicago, Ill.
Cleveland Lock Co., Cleveland, O.
Corn Belt Shredder Co., Beatrice, Neb.
Deere & Mansur Co., Moline, Ill.
Double Power Wind Mill Co., Appleton, Wis.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
**INTERNATIONAL HARVESTER CO.** of America ("Deering", "McCormick", "Plano"), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kenney Machinery Co., Indianapolis, Ind.
Kolling Husker & Shredder Works ("Kolling"), Arlington Heights, Ill.
Maytag Co. ("Parsons"), Newton, Iowa
Milwaukee Hay Tool Co., Milwaukee, Wis.
Ohio Cultivator Co., Bellevue, O.
**Peerless Husker Co., Buffalo, N. Y.**
Port Huron Engine & Thresher Co., Port Huron, Mich.
Rosenthal Corn Husker Co., Milwaukee, Wis.
Safety Shredder Co., New Castle, Ind.
Smalley Mfg. Co., Manitowoc, Wis.
Sproul, Matt, Sparta, Ill.
Taylor Husker & Shredder Co., Joliet, Ill.
Wallingford Mfg. Co. (Excelsior), Wallingford, Vt.

## 4956— Husking Pins

**ARCADE MFG. CO. ("Pearse" Corn** Husker), Freeport, Ill. (See adv. index, end of book)
Clauss Shear Co., Fremont, O.
Cleveland Lock Co. (Knife Handle), Cleveland, O.
Kees, F. D. Mfg. Co., Beatrice, Neb.
Pratt, Wm. E. Mfg. Co. ("The Pratt"), 51 Lake, Chicago, Ill.
**Standard Corn Husker Co.** (Jno. C. Kanney, Prop.) (Hand Huskers), Greenspring, O.
Wallingford Mfg. Co., Wallingford, Vt.

## 4957— Hydrants

Bourbon Copper & Brass Works, Cincinnati, O.
Clark, L. P. & Sons, 419 N Front, Baltimore, Md.
Columbiana Pump Co., Columbiana, O.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
Douglas. W. & B., Middletown, Conn., & 83 John, New York
**Edwardsville Brass Co.** (Yard), Edwardsville, Ill.
Fales & Jenks Machine Co., Pawtucket, R. I.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**Haydenville Co. ("Lewis"), Haydenville, Mass.**
Hays Mfg. Co., Erie, Pa.
Humphreys Machine Co., Keene, N. H.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Iowa Mfg. Co., Oskaloosa, Ia.
Jarecki Mfg. Co., Erie, Pa.
**KEMP, C. M. CO. (Yard "Climax",** Iron or Wood), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)
Kennedy Valve Mfg. Co., Elmira, N. Y.
Kupferle, John C. Foundry Co. (Yard & Wall), St. Louis, Mo.
Lacy Mfg. Co., Los Angeles, Cal.
Ludlow Valve Mfg. Co., Troy, N. Y.
Michigan Brass & Iron Works, Detroit, Mich.
Murdock Mfg. & Supply Co. ("Murdock"), Cincinnati, O.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Neumeyer, H. F. ("American"), Macungie, Pa.
Nichol, Thos. J. & Co., Cincinnati, O.
Queen City Brass & Iron Works, Cincinnati, O.
Quirin, Jno. & Bro. (Non-freezing, Street), St. Clair, Pa.
Rumsey & Co. (Ltd.) ("Kaiser," "Favorite" & "Eagle"), Seneca Falls, N. Y.
Walworth Mfg. Co., Boston, Mass.

## 4958— Hydrants (Fire)

American Foundry & Mfg. Co., St. Louis, Mo.
Beaumont, Richard (Est. of), Kankakee, Ill.
Bourbon Copper & Brass Works, 620 E Front, Cincinnati, O.
Cayuta Mfg. Co. ("K-U-T-A"), Sayre, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index, end of book)
Coffin Valve Co., Neponset, Boston, Mass.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Douglas, W. & B., Middletown, Conn.
Drummond, M. J. & Co., 182 B'way, New York
Eddy Valve Co., Waterford, N. Y.
Eley, Philip Sons Co. ("Eley"), Bayonne, N. J.
Fox, Jno. & Co. (Mfrs.' Agts.) 253 B'way, New York
Garratt, W. T. & Co. (Inc.), Fremont & Natoma, San Francisco, Cal.
Glamorgan Pipe & Foundry Co., Lynchburg, Va.
Hays Mfg. Co., Erie, Pa.
**HOLLY MFG. CO., B'way & Cedar,** New York. (See adv. index & branch offices, end of book)
Howard Iron Works, Buffalo, N. Y.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Kupferle, Jno. C. Foundry Co. ("Total Eclipse"), St. Louis, Mo.

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Loetzer Valve & Mfg. Co. ("Loetzer" Compression), Monroeton, Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
McLean, Jno. ("Ayers"), 440 Water, New York
Macungie Brass & Mfg. Co. ("Niagara," "Peerless" & "Anti-Freezing"), Macungie, Pa.
Norwood Engineering Co. ("Holyoke", "Walker"), Florence, Mass.
Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works, Cincinnati, O.
Rensselaer Valve Co. ("Corey"), Troy, N. Y.
**Rumsey & Co., Ltd. (Inc.), ("Kaiser," "Favorite" & "Eagle"), Seneca Falls, N. Y.**
Smith, A. P. Mfg. Co., East Orange, N. J.
South Park Foundry & Machine Co., St. Paul, Minn.
Stephens, Roe Mfg. Co., Detroit, Mich.
Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waterous Engine Works Co., St. Paul, Minn.
Wood, R. D. & Co. ("Mathews"), 400 Chestnut, Phila., Pa.

## 4959—Hydrants (Fire Boat)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 4960—Hydrants (Fire, Crane Attachment)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 4961—Hydrate (Ammonium)

Baker & Adamson Chemical Co., Easton, Pa.

## Hydrate of Alumina

(See Alumina)

## 4962— Hydraulagraphs

American Steam Gauge & Valve Mfg. Co. ("American"), Boston, Mass.

## 4963— Hydraulic Machinery

(See Hydraulic Pumps; also Hydraulic Presses; also Hydraulic Rams; also Hydraulic Jacks; also Hydraulic Cranes; also Hydraulic Riveters)

## 4964— Hydraulic Rams

Barnes Mfg. Co., Mansfield, O.
Columbiana Pump Co., Columbiana, O.
Comstock, Geo. S. ("Kline"). Mechanicsburg, Pa.
Crooks-Kries Co., Baltimore, Md.
**DEMING CO., Salem, O., & 223 N Jefferson, Chicago, Ill.** (See adv. index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Garratt, W. T. & Co. (Inc.), 142 Fremont, San Francisco, Cal.
Gawthrop, Allen. Jr., Wilmington, Del.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Humphryes Mfg. Co., Mansfield, O.
Hanson & Rhodes, 157 W 29th, New York
Kline, Jas. M., Beavertown, Pa.
Love, M. A. Mfg. Co., Rockford, Ill.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Niagara Hydraulic Engine Co., 140 Nassau, New York
Pelton Water Wheel Co., Monadnock bldg., San Francisco, Cal., & 90 West, New York
Power Specialty Co. ("Foster" & "Rife's"), 111 B'way, New York
**RIFE ENGINE CO., 2437 Trinity bldg, New York.** (See adv. index & branch offices, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

## 4965— Hydriatic Apparatus

Mott, J. L. Iron Works, 118 5th av, New York

## 4966— Hydro-Carbon

American Wax Co., Boston, Mass.
Raven Mining Co. ("Kapak"), 204 Dearborn, Chicago, Ill.
Scheel, Wm. H., 159 Maiden lane, New York

## 4967— Hydrodeiks

Taylor Instrument Co.'s ("Lloyd's"), Rochester, N. Y.

## 4968— Hydrometers

Carbondale Instrument Co. (Oil, etc.), Carbondale, Pa.
Du Vivier, Ernest H., 30 Church, New York
Eimer & Amend, 205 3d av, New York
Electric Storage Battery Co., 19th & Allegheny av, Philadelphia, Pa.
Greiner, Emil Co., 45 Cliff, New York
Haas, Philip Co. ("Haas," etc.), Dayton, O.
Hoehn, R. Co., 83 Chambers, New York
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Storage Battery Supply Co., 239 E 27th, New York
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Tagliabue, Giuseppe, 302 Pearl, New York
Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.
Vuille, Chas. A., Huntingdon, Pa.
Wagner, Carl H., 1944 N Albany, Chicago, Ill.
Wagner Glass Works (Also Barometers), 697 E 132d, New York
Weinhagen, Henry, 22 N William, New York
Weiskoff, A., 16 S Clinton, Chicago, Ill.

## 4969— Hydrone

Roessler & Hasslacher Chemical Co. (For Producing Hydrogen), 100 William, New York

## 4970— Hygrometers

Caloris Co., 2110 Allegheny av, Phila., Pa.
Davis, John & Son (Ltd.), Baltimore, Md.
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 4971—Hyposulphate of Soda

Cochrane Chemical Co., Boston, Mass.
General Chemical Co., 25 Broad, New York
Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Merrimac Chemical Co., Boston, Mass.
Thomson Chemical Co., Baltimore, Md.

## 4971a—Hyposulphide of Lead

**DOGGETT, STANLEY (Black), 101 Beekman, New York.** (See adv. index, end of book)

## 4972— Ice Tanks & Pans

**CANTON BOILER & ENGINEERING Co., Canton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East Chicago, Ind.** (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office, Corn Exchange Bank bldg, Chicago, Ill.** (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**WARREN CITY TANK & BOILER Co., Warren, O.** (See adv. index, end of book)

## 4973—Icing Systems (Refrigerator Car)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

## 4974— Idlers (Grooved)

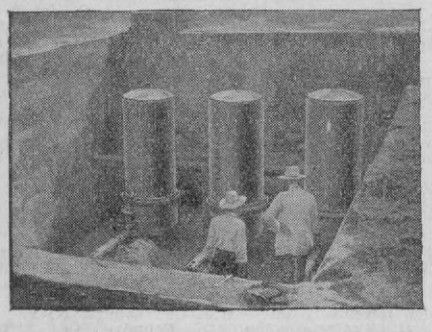
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill.** (See adv. index & branch offices, end of book)

## 4975—Igniters (Gas & Gasoline Engine)

(Magnetos & Dynamos)

American Coil Co. ("American," "Little Wonder"), Foxboro, Mass.
Apple Electric Co., Dayton, Ohio
Bosch Magneto Co. ("Bosch" Magnetos), 160 W 56th, New York
Central Insulating Co. ("Cartridge"), Lafayette, Ind.
Champion, Albert Co., ("Gianoli"), Boston, Mass.
Champion Ignition Co., Flint, Mich.
Connecticut Telephone & Electric Co. (Inc.), (Magnetos), Meriden, Conn.
D. K. Electric Co. ("Duncan"), St. Louis, Mo.
Dayton Electrical Mfg. Co. ("Apple"), Dayton, O.
Eisemann Magneto Co., 225 W 57th, New York
Elbridge Electrical Mfg. Co., Elbridge, N. Y.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Fawn River Mfg. Co., Constantine, Mich.
Gardner Engine Starter Co., 1451 Michigan av, Chicago, Ill.
Geizler Bros. (Non-Sulphating Storage Battery Igniter), 514 W 57th, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Goodson Electric & Co., Providence, R. I.

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U. S. Government Reclamation Service
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Henricks Novelty Co., Indianapolis, Ind.
Hercules Electric Co. ("Wizard" & "Star" Spark Generators), Indianapolis, Ind.
Herz & Co. ("Herz" High Tension Magneto), 295 Lafayette, New York
Holley Bros. Co. (Holley), 668 Beaubien, Detroit, Mich.
Holtzer-Cabot Electric Co. ("The H-C Magneto"), Brookline, Mass.
K-W Ignition Co. ("Vim"), Cleveland, O.
Kendrick & Davis, Lebanon, N. H.
Kent Atwater Mfg. Works, 46 N 6th, Phila., Pa.
Knoblock-Heideman Mfg. Co., South Bend, Ind.
Lemke Electric Co., Milwaukee, Wis.
Mavity-Sleeper Co. ("M & S," also Automobile Magneto), Fowler, Ind.
Metal Specialties Mfg. Co. ("G. & M." Compression), 427 W. Randolph, Chicago, Ill.
Midland Supply Co. ("Wilson"), Chicago, Ill.
Motsinger Device Mfg. Co. ("Auto Sparker"), Lafayette, Ind.
O'Brien Electrophone Co., Hallowell, Me.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Orswell Igniter Co., 95 Milk, Boston, Mass.
Perfection Magneto Co., Anderson, Ind.
Pittsfield Spark Coil Co., Pittsfield, Mass.
Reliable Electric Mfg. Co. ("Reliable"), Indianapolis, Ind.
Remy Electric Co., Anderson, Ind.
Roche, Wm., Jersey City, N. J.
Schug Elec. Mfg. Co. ("Schug" Ignition Storage Battery), Detroit, Mich.
Shunk Mfg. Co., Bucyrus, O.
Splitdorf, C. F., 261 Walton av, New York
Standard Motor Construction Co., Jersey City, N. J.
Stecker Elec. & Machine Co., Detroit, Mich.
Sumter Telephone Mfg. Co., Sumter, S. C.
Tritt Electric Co., Union City, Ind.
Witherbee Igniter Co. ("Volta" & Witherbee" Storage Battery Igniter), 1876 B'way, New York

## Ignition Apparatus

(See Batteries; also Coils, Spark; also, Plugs, Spark; also Igniters, Gas & Gasoline Engine)

## 4976—Illuminated Thresholds for Elevators

**ELEVATOR SUPPLY & REPAIR CO.** ("Ricketts"), 561 W Monroe. Chicago, Ill. (See adv. index & branch offices, end of book)

## 4977— Illuminators (Oven)

Beitner, George L. ("Perfect"), Bridgeport, Conn.
Duchess Tool Co. ("Eureka," Gas or Electric, "Cincinnati," Oil), Fishkill-on-Hudson, N. Y.
Robson, Chas. & Co. ("Robson"). 8th & Washington av, Phila., Pa.

## 4978—Impregnators (Fabric)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)

## 4980—Incandescent Lamp Turndown Attachment

Wirt Electric Specialty Co. ("Di-El-Ite"). Armat & Sena, Phila., Pa.

## Incinerators (Garbage)

(See Garbage Disposal Plants)

## 4981—Incinerators (Night Soil & Refuse)

U. S. Incinerator Co., Buffalo, N. Y.

## 4982—Incinerators (Platinum)

Bishop, J. & Co., Malvern, N. Y.

## 4983—Incinerators (Sanitary)

**MacLEOD, WALTER & CO. ("Buckeye"),** 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

## 4984— Incline Planes

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
**GENERAL ELECTRIC CO. (Electric),** Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.

## 4985— Inclinometers

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 4986— Increasers (Drainage)

National Tube Co., Pittsburg, Pa.

## 4987— Indian Clubs

Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Hellenburg & Son, Coldwater, Mich.
Narragansett Machine Co., Providence, R. I.
Sandusky Tool Co., Sandusky, O.

## 4987a—Indicator Attachment

**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 4988—Indicators (Ammonia)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4989—Indicators (Antomatic, for Flue Rolling)

**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)

## 4989a—Indicators (Combination)

**SLOCOMB, J. T. CO. (For Testing** to the Truth of a Hole or Slight), 29 Oxford, Providence, R. I. (See adv. index, end of book)

## 4990—Indicators (Combined Gas & Steam)

**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston Mass. (See adv. index & branch offices, end of book)

## 4990a—Indicators (Centre)

**SLOCOMB, J. T. CO., 29 Oxford,** Providence, R. I. (See adv. index, end of book)

## 4991— Indicators (Course)

Hand, John & Sons ("Faulkner-Ellis"), 222 Walnut, Phila., Pa.

## 4992—Indicators (Electric Speed)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 4993—Indicators (Elevator)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELEVATOR SUPPLY & REPAIR CO.** (Mechanical), 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

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Herzog Teleseme Co., 137 W 23d, New York
Somerville, John (Fluid), 156 W 30th, New York
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See adv. index & branch offices, end of book)

## 4994—Indicators (Fuel Level)

Auto Pump Co., Springfield, N. Y.
Boston Auto Gage Co. ("Triumph"), 8 Waltham, Boston, Mass.
Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.
Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
Jones, Joseph W., 127 W 32d, New York
Ohio Brass Co., Mansfield, O.
Turner Brass Works, Sycamore, Ill.

## 4995—Indicators (Gas Engine)

American Steam Gauge & Valve Mfg. Co. ("American Thompson" Improved, also Ammonia Indicators), 208 Camden, Boston, Mass.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Trill Indicator Co. ("Triumph"), Corry, Pa.

## 4996—Indicators (Gas Leak)

Taylor Instrument Co.'s, Rochester, N. Y.

## 4997— Indicators (Helm)

Cory, Chas. & Son, 278 Division, New York
Hyde Windlass Co., Bath, Me.

## 4998—Indicators (Hydraulic)

**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 4999— Indicators (Lathe)

Brown & Sharpe Mfg. Co., Providence, R. I.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 5000—Indicators (Lightning)

Bajohr, Carl Lightning Conductor Co., St. Louis, Mo.

## 5001—Indicators (Locomotive Train Number)

Handlan-Buck Mfg. Co., St. Louis, Mo.

## 5002—Indicators (Log Setting)

Filer & Stowell Co., Milwaukee, Wis.
Lane Mfg. Co., Montpelier, Vt.

## Indicators (Low Water)

(See Alarms, Low Water)

## 5003— Indicators (Machine)

Norton Grinding Co. (For Testing Truth & Alignments of Machine Parts), Worcester, Mass.

## 5004—Indicators (Marine)

McNab Indicator Co., Bridgeport, Conn.

## 5005—Indicators (Polarity)

Dale Co., 9th av & 13th, New York
Keystone Electrical Instrument Co. (Potential & Current), 901 Montgomery av, Phila., Pa.
Steele Glass Co., 622 Locust, Phila., Pa.
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 5006—Indicators (Railroad Speed)

Warner Instrument Co., Beloit, Wis.

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## 5007– Indicators (Speed)

American Steam Gauge & Valve Mfg. Co. ("American Thompson"), Boston, Mass.
Ashcroft Mfg. Co., 85 Liberty, New York
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bowsher, N. P. Co. (or Motion for Water Power, etc.), South Bend, Ind.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brown Instrument Co. (Recording Revolution with Chart), 313 Walnut, Phila., Pa.
Disston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.
Durant, Walter N. Co., Milwaukee, Wis.
Emerson, Smith & Co., Beaver Falls, Pa.
Grant Mfg. & Machine Co. (Revolution Counters), Bridgeport, Conn.
Greene, Tweed & Co. ("Empire," "Weiss"), 109 Duane, New York
**INDUSTRIAL INSTRUMENT CO.** (For Speed & Stroke), Foxboro, Mass. (See adv. index & branch offices, end of book)
Lintner, Wm. T., Gloversville, N. Y.
Marsh, Jas. P. & Co., 21 W Washington, Chicago, Ill
Mixter, J. W. Saw Tool Co. ("Mixter"), Plymouth, Mass.
**NATIONAL GAUGE CO. ("National")**, 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Steam Specialty Co., 230 E Washington, Chicago, Ill.
Packer, Thos. ("L. B. Taylor's"), Union City, Conn.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Schuchardt & Schutte ("Initiative"), 90 West, New York
Star Brass Mfg. Co., Boston, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Uehling Instrument Co., Passaic, N. J.
United States Gauge Co., 67 Wall, New York
Veeder Mfg. Co. ("Veeder"), Hartford, Conn.
Woodman, R. Mfg. & Supply Co. ("Woodman & Hudson's"), 63 Oliver, Boston, Mass.

## 5008– Indicators (Station)

Hutchinson, I. (&Train Announciators), 136 Liberty, New York
National Indicator Co. ("Hutchinson"), 130 Worth, New York
Singer Sewing Machine Co. ("Boynton," for Railroads), 149 B'way, New York

## 5009–Indicators (Steam Engine)

American Steam Gauge & Valve Mfg. Co. ("Amer. Thompson Improved"), 208 Camden, Boston, Mass.
Ashcroft Mfg. Co. ("Tabor"), 85 Liberty, New York
Bushnell, Jno. S. & Co. ("Batchelder"), 174 Fulton, New York
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Lippincott Steam Specialty & Supply Co. ("Lippincott," "Excelsior," "Howard," "Thompson"), Newark, N. J.
Robertson, Jas. L. & Son (Inc.) ("Robertson-Thompson"), 78 Murray, New York
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Tabor Mfg. Co., 18th & Hamilton, Phila., Pa.
Thompson, Richard & Co. ("Thompson's"), 126 Liberty, New York
Trill Indicator Co. ("Trill," "Triumph," "Perfection"), Corry, Pa.
United States Gauge Co., 67 Wall, New York

## 5010–Indicators (Surface Speed)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 5010a–Indicators (Switch & Tower)

American Railway Signal Co., Cleveland, O.

## 5011– Indicators (Tank)

**BALTIMORE COOPERAGE CO., THE,** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Quimby Engineering Co. ("U. S. Standard" Mercury), 913 Ridge av, Phila., Pa.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**SIMMONS, JOHN CO., 110 Centre,** New York. (See adv. index, end of book)

## 5012– Indicators (Test)

Boulet's Fine Tool Co. ("Boulet's" Universal Micrometer), Beverly, Mass.
Brown & Sharpe Mfg. Co. (Dial Lathe, etc.), Providence, R. I.
Koch, Henry, & Son, Nyack, N. Y.
Reisner, W. H. Mfg. Co. (Dial, Lathe, etc.), Hagerstown, Md.
**STARRETT, L. S. CO. ("Universal")**, Athol, Mass. (See adv. index & branch offices, end of book)

## 5013–Indicators ("Thompson," for Ammonia, Steam, Gas, & Oil Engines)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 5013a–Indicators (Train Arrival & Departure)

National Indicator Co., 130 Worth, New York

## 5014– Indicators (Valve)

Walworth Mfg. Co. (The Half), 132 Federal, Boston, Mass.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## Indicators (Water)

(See Alarms, Low Water, for Boilers)

## 5015–Indicators (Wire Rope)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 5016–Indurated Fibre Ware

United Indurated Fibre Co. of N. J. ("Fibrotta"), Lockport, N. Y.

## 5017– Ingots (Aluminum)

(See Also Pig Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
American Metal Co. (Ltd.), 52 B'way, New York
Electric Smelting & Aluminum Co., Lockport,
Genesee Metal Co., Rochester, N. Y. N. Y.
Hofeller, Theo. & Co., Buffalo, N. Y.
Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)
Nassau Smelting & Refining Works, 607 W 29th, New York
Scoville Mfg. Co., Waterbury, Conn.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
Waite, Ranlet & Co., Boston, Mass.

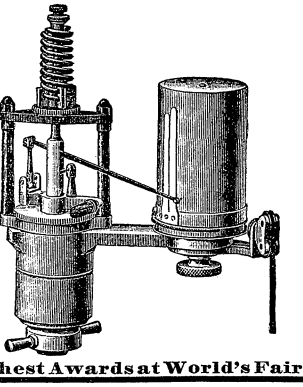
## 5018–Ingots (Brass & Copper)

Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
American Metal Co. (Copper), 52 B'way, New York
American Smelting & Refining Co., 165 B'way, New York
Ansonia Brass & Copper Co., Ansonia, Conn.
Birkenstein, Straus (Copper Only), 383 W Ontario, Chicago, Ill.
Blatchford, E. W. Co. (Copper Only), 230 N Clinton, Chicago, Ill.
Duquesne Reduction Co., Farmers' Bank bldg, Pittsburg, Pa.
Edna Brass Mfg. Co. (Brass Only), Cincinnati,
Genesee Metal Co., Rochester, N. Y. Ohio
Great Western Smelting & Refining Co., 41st & Wallace, Chicago, Ill.
Hayman, Mich'l & Co. (Copper), Buffalo, N. Y.
Hendricks Bros., 49 Cliff, New York
Hiertz, Thos. Metal Co., St. Louis, Mo.
**HUNGERFORD, U. T. BRASS & COPper Co., 497 Pearl, New York**
Hurley & Wainwright, 81 Fulton, New York
Hussey, C. G. & Co., Pittsburg, Pa.
Illinois Smelting & Refining Co. (Brass), 410 N Peoria, Chicago, Ill.
Kramer, H. & Co., 730 S Canal, Chicago, Ill.
**LEAVITT, C. W. & CO. (Copper Only),** 34 Church, New York. (See adv. index, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Michigan Smelting & Refining Co., Detroit, Mich.
More-Jones Brass & Metal Co. (Brass), St. Louis, Mo.
Nassau Smelting & Refining Works, 607 W 29th, New York
New York Metal Selling Co. (Copper Only), 2 Rector, New York


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North American Smelting Co., 9th & Thompson, Phila., Pa.
Phelps, Dodge & Co. (Copper), 99 John, New York
Reeves, Paul S. & Son (Red, White & Yellow Brass & Pure Copper, etc.), 1415 Catharine, Phila., Pa.
Roessing Bronze Co., Etna, Pa.
Shimer, H. M. & Co. (Red & Yellow), 19th & Wash'n av, Phila., Pa.
Syracuse Smelting Works, 28 Dobbin, Brooklyn, New York
Tottenville Copper Co. (O. C. T.), Tottenville, N. Y.
Trench, C. S. & Co., 81 Fulton, New York
Vanadium Metals Co. (Brass Only), Frick bldg, Pittsburg, Pa.
Waite, Ranlet & Co., Boston, Mass.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Whipple & Choate (Brass Only), Bridgeport, Conn.
White & Bro. (Inc.) (Red & Yellow Brass, etc.), 1502 E Montgomery, Phila., Pa.
Woodfall Bros., 1105 Fairmount av, Phila., Pa.

## 5019– Ingots (Bronze)

Ajax Metal Co., 46 Richmond, Phila, Pa., & Birmingham, Ala.
Damascus Bronze Co., N S, Pittsburg, Pa.
Genesee Metal Co., Rochester, N. Y.
Edna Brass Mfg. Co., Cincinnati, O.
More-Jones Brass & Metal Co., St. Louis, Mo.
National-Fulton Brass Mfg. Co. ("Monarch"), Detroit, Mich.
Nassau Smelting & Refining Works, 607 W 29th, New York
Naulty Smelting & Refining Co. ("Chromax"), 2612 Martha, Phila., Pa.
Reeves, Paul S & Son, 1415 Catharine, Phila., Pa.
Roessing Bronze Co., Etna, Pa.
U. S. Bronze Co., Cleveland, O.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## Ingots (Copper)

(See Ingots, Brass & Copper)

## 5020–Ingots (Manganese Bronze)

Ajax Metal Co., 46 Richmond, Phila, Pa., & Birmingham, Ala.
American Manganese Bronze Co., 99 John, New York
Cramp, Wm. & Sons Ship & Engine Building Co. ("Parsons"), Philadelphia, Pa.
Nassau Smelting & Refining Works, 607 W 29th, New York
North American Smelting Co., 9th & Thompson, Phila., Pa.
Reeves, Paul S. & Son ("Tubal"), 1415 Catharine, Phila., Pa.

## 5021– Ingots (Nickle)

**MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)**
Nassau Smelting & Refining Works, 607 W 29th, New York

## 5022–Ingots (Phosphor Bronze)

Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
Damascus Bronze Co., N S, Pittsburg, Pa.
Edna Brass Mfg. Co., Cincinnati, O.
Great Western Smelting & Refining Co., 41st & Wallace, Chicago, Ill.
**MERCHANT & EVANS CO., Inc., 517 Arch,** Phila., Pa. (See adv. index & branch offices, end of book)
Nassau Smelting & Refining Works, 607 W 29th, New York
North American Smelting Co., 9th & Thompson, Phila., Pa.
Phosphor Bronze Smelting Co., 2200 Washington av, Philadelphia, Pa.
Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Syracuse Smelting Works, Syracuse, N. Y. Pa.
U. S. Bronze Co., Cleveland, O.

## 5023– Ingots (Steel)

(See also Billets, Blooms & Slabs, Steel)

**ALLEGHENY STEEL CO. (Open** Hearth), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
American Bridge Co. (Open Hearth), Pittsburg, Pa.
**AMERICAN STEEL & WIRE CO. (Bessemer & Open Hearth), Commercial National Bank bldg, Chicago, Ill. (See adv. index** & branch offices, end of book)
American Tube & Stamping Co. (Open Hearth), Bridgeport, Conn.
Andrews Steel Co. (Basic Open Hearth), Newport, Ky.
Ashland Steel Co. (Bessemer), Ashland, Ky.
Bethlehem Steel Co. (Open Hearth), South Bethlehem, Pa.
Cambria Steel Co. (Bessemer, Acid & Basic **Open Hearth**), Johnstown, Pa.
Carbon Steel Co. (Acid & Basic Open Hearth), Pittsburg, Pa.
Carnegie Steel Co. (Bessemer & Open Hearth), Pittsburg Pa.
Carpenter Steel Co. (Crucible), Reading, Pa.
Central Iron & Steel Co. (Open Hearth), Harrisburg, Pa.
Chrome Steel Works (Chrome Steel), Chrome, N. J.
Colonial Steel Co. (Crucible & Open Hearth), Pittsburg, Pa.
Colorado Fuel & Iron Co. (Bessemer & Open Hearth), Denver, Col.
Crucible Steel Co. of America (Crucible & Open Hearth), Pittsburg, Pa.
Farist Steel Co. (Crucible), Bridgeport, Conn.
**FRASSE, PETER A & CO. ("Poldi"** Superior Austrian), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)
Halcomb Steel Co. (Crucible & Open Hearth), Syracuse, N. Y.
Harrisburg Pipe & Pipe Bending Co. (Open Hearth), Harrisburg, Pa.
Illinois Steel Co., 115 Adams, Chicago, Ill.
**JESSOP STEEL CO. (Crucible), 91 John, New York. Works, Washington, Pa.**
**Krovan Steel Co., Pittsburg, Pa.**
Jones & Laughlin Steel Co. (Bessemer & Open Hearth), Pittsburg, Pa.
Lackawanna Steel Co. (Bessemer & Open Hearth), Buffalo, N. Y.
Lucknow Iron & Steel Co. (Open Hearth), Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.
Maryland Steel Co. (Bessemer), Sparrows Point, Baltimore, Md.
Midvale Steel Co. (Crucible & Open Hearth), Nicetown, Phila., Pa.
National Tube Co. of Ohio (Bessemer), Lorain, O.
Otis Steel Co. (Acid & Basic Open Hearth), Cleveland, O.
Pennsylvania Steel Co. (Bessemer, Open Hearth & Crucible), 1421 Chestnut, Phila, Pa.
Phoenix Iron Co. (Acid & Basic Open Hearth), 410 Walnut, Phila., Pa.
Pittsburg Steel Foundry (Open Hearth Cast, Up to 70,000 lbs.), Pittsburg, Pa. Works: Glassport, Pa.
Portsmouth Steel Co. (Acid & Basic Open Hearth), Portsmouth, O.
Republic Iron & Steel Co. (Bessemer), Pittsburg, Pa.
**Southern Iron & Steel Co. (Basic Open Hearth) Birmingham, Ala.**
Standard Steel Works Co. (Open Hearth), Harrison bldg., Phila., Pa.
Sweet's Steel Co. (Open Hearth), Williamsport, Pa.
Taylor, N. & G. Co. (Open Hearth), Mariner & Merchants' bldg., Phila., Pa.
Tennessee Coal, Iron & R. R. Co. (Open Hearth, Rail, etc.), Birmingham, Ala.
Tremont Nail Co. (Soft Steel), West Wareham, Mass., & 76 Pearl, Boston, Mass.
West Leechburg Steel Co. (Basic Open **Hearth), Pittsburg, Pa.**
Worth Bros. Co. (Acid & Basic Open Hearth), Coatesville, Pa.

## 5024 Ingots (Zinc)

American Smelting & Refining Co., 165 B'way, New York
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & **branch offices, end of book)**
Nassau Smelting & Refining Works, 607 W 29th, New York
New Jersey Zinc Co., 55 Wall, New York

## Injectors (Boiler)

(See Injectors & Ejectors, Boiler)

## 5025–Injectors (Exhaust)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 5026–Injectors (Locomotive)

**Belfield, H. & Co., 435 N. Broad, Phila., Pa.**
**Chicago Injector Co. ("Garfield"), Wadsworth, Ohio**
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Edna Brass Mfg. Co. ("Edna"), Cincinnati, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Griffiths, Jas. A. ("Eclipse"), 500 N. 12th, Philadelphia, Pa.
Hancock Inspirator Co. ("Hancock" Inspirators, for Locomotive, Marine & Stationary Purposes), 85 Liberty, New York
Handlan-Buck Mfg. Co. ("Perfection"), 212 N 3d, St. Louis, Mo.
Hayden & Derby Mfg. Co. ("Metropolitan," etc.), 85 Liberty, New York
Lonergan, Jas. E. & Co., 211 Race, Phila., Pa.
Nathan Mfg. Co. ("Simplex," "Nathan," "Monitor"), 85 Liberty, New York


# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

**Hendricks' Commercial Register**


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Ohio Injector Co. ("Garfield," "Chicago," "Ohio"), Wadsworth, O.
Penberthy Injector Co. ("Penberthy," Auto-Positive), 346 Holden av, Detroit, Mich.
Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Schutte & Koerting ("Koerting"), 1251 N 12th, Phila., Pa.
Sellers, William & Co., 1600 Hamilton, Philadelphia, Pa.
Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.

## 5027—Injectors & Ejectors (Boiler)

**AMERICAN INJECTOR CO. ("U. S." "World"),** Detroit, Mich. (See adv. index, end of book)
Automatic Injector Co., Cincinnati, O.
Belfield, H. & Co., 435 N Broad, Phila, Pa.
Blakeslee Mfg. Co. (Jet Pumps), Du Quoin, Ill.
Buffalo Specialty Co. ("Neverbreak" Injector), Buffalo, N. Y.
**Crane Co. (Est. 1855), 1214 S Canal, Chicago,** Ill. (See adv. index & branch offices, end of book)
Desmond-Stephen Mfg. Co. ("Desmond"), Urbana, O.
Detroit Injector & Brass Mfg. Co., Detroit, Mich.
Detroit Lubricator Co. ("Detroit" Boiler Oil), Detroit, Mich.
Eynon-Evans Mfg. Co. ("Niagara" & "Eynon-Korting"), 1519 Clearfield, Philadelphia, Pa.
**FAIRBANKS, MORSE & CO.** ("Chief"), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GODFREY-KEELER CO., 70 Warren, New York. (See adv. index, end of book)**
Griffiths, Jas. A. ("Keystone," "Champion," "Eclipse"), 500 N. 12th, Philadelphia, Pa.
Hancock Inspirator Co. ("Hancock" Inspirators, "Loftus"), 85 Liberty, New York
Hayden & Derby Mfg. Co. ("Metropolitan," "H. & D." Automatic & Double Tube), 85 Liberty, New York
Jenkins Bros. ("Seller's Restarting"), 80 White, New York
Keyes, F. E. & Son ("Advance"), 20 Broad, New York
Lonergan, J. E. & Co. ("Clipper," "Ajax"), 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co., 56 John, New York
**NASON MFG. CO., 71 Fulton, New York. (See adv. index, end of book)**
Nathan Mfg. Co. ("Nathan," "Gresham," "Monitor," "Simplex," "Friedmann"), 85 Liberty, New York
National Injector Co. ("National"), Geneva, O.
Ohio Injector Co. ("Garfield" Double Jet, "Chicago" Automatic), Wadsworth, O
Pancoast, Henry B. & Co. ("Model"), 243 S 3d, Phila., Pa.
Penberthy Injector Co. ("Penberthy," Automatic, Auto-Positive & "XI-96"), Auto-Holden av, Detroit, Mich.
Powell, Wm. C. (Stationary & Marine Injectors), Cincinnati, O.
Randle Machinery Co. ("Leader"), Cincinnati, Ohio
Rue Mfg. Co. ("Little Giant," "Unique" & "Fixed Nozzle"), 228 Cherry, Phila., Pa.
Schutte & Koerting ("Koerting" & "Universal"), 1253 N. 12th, Philadelphia, Pa.
Sellers, Wm. & Co. (Locomotive & Boiler), 1600 Hamilton, Philadelphia, Pa.
Sherwood Mfg. Co. ("Buffalo," "Sherwood," "Eagle"), Buffalo, N. Y.
Steam Appliance Co. ("Triumph"), Milwaukee, Wis.
Stephens, Roe Mfg. Co. ("Michigan," "Roe," "Detra"), Detroit, Mich.
Tranter Mfg. Co., ("Peerless"), Pittsburg, Pa.
Van Duzen, E. W. Co., Cincinnati, O.
Watson, N. A. Brass Works ("Excelsior"), Erie, Pa.
Watson & McDaniel Co. ("McDaniel"), Ejectors), 146 N 7th, Phila., Pa.

## 5028— Inkoff

**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)

**SOLTMANN, E. G.**

(Eradicator for Tracing Cloth, Washes Black Waterproof Ink Off Like Washing Off a Slate), 134 W 29th, New York. (See adv. index, end of book)

## 5029—Inkograf Prints, Reproduced on Paper or Tracing Cloth

**SOLTMANN, E. G.**

(Also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

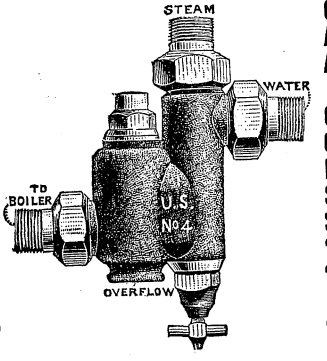

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Gas Engine Exploso Oil Cup
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Star & Never Slip
"Emergency" Snap Lever
"Moon" Automatic Grease Cup
"Pet" Glass Body Oil Cups


## 5030— Inks (Canners')

Consolidated Stamp Mfg. Co., 87 Maiden la, New York
Gibson, A. C. Co. ("Opaque"), Buffalo, N. Y.
Swisher, R. D. Mfg. Co. ("Is Boiler Proof"), 411 S Clinton, Chicago, Ill.

## 5031— Inks (Draughting)

Carter's Ink Co., Cambridge, Mass.
Collins Ink Co. ("Collins Waterproof"), Hoboken, N. J.
Dietzgen Eugene Co., 181 Monroe, Chicago, Ill.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg,** Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end end of book)
Favor, Ruhl & Co. (Gunther Wagner's "Pelican"), 139 Franklin, New York
Higgins, Chas. M. & Co., 271 9th, Brooklyn, N. Y.
Keuffel & Esser Co., 127 Fulton, New York
**KOLESCH & CO., 138 Fulton, New** York. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Taylor Bros. ("Opake" Quick Drying Water Proof, for Tracing Cloths), Cleveland, O.
**WEBER, F. & CO. (Black & Col**ored), 1125 Chestnut, Phila., Pa. (See adv. index & branch offices, end of book)

## 5032— Inks (Marking)

Volger, B. G. Mfg. Co. ("Volger," Indelible), Passaic, N. J.

## 5032a—Inks (Metal Marking)

Strasenburgh, R. J. Co., Rochester, N. Y.

## 5033—Inks (Printing & Lithograph)

American Printing Ink Co., Cincinnati, O.
American Printing Ink Co. (Wood Printing), 891 W Kinzie, Chicago, Ill.
Ault & Wiborg Co., Cincinnati, O.
Barnard, F. A. & Son, 349 Dearborn, Chicago, Ill.
Big Four Printing Ink Co., Battle Creek, Mich.
Buffalo Printing Ink Works (Copyable Printing), Buffalo, N. Y.
California Ink Co., 11 Jones, San Francisco, Cal.
Caxton Printing Ink Co., 165 N Jefferson, Chicago, Ill.
Eagle Printing Ink Co., 24 Cliff, New York
Fuchs & Lang Mfg. Co., 29 Warren, New York
Golding Mfg. Co., 177 ft Hill sq., Boston, Mass.
Hellmuth, Chas., 154 W 18th, New York
Huber, J. M., 150 Worth, New York
Janecke Printing Ink Co., 119 Worth, New York
Johnson, Charles Eneu & Co., 47 Rose, New York
Kane & Company, 108 5th av, Chicago, Ill.
Levey, Frederick H. Co., 59 Beekman, New York
Mayer, Robt. & Co., 200 5th av, New York
Morrill, George H. Co., 49 Rose, New York
Naumann Mfg. Co., Stamford, Conn.
Queen City Printing Ink Co., 1925 South, Cincinnati, O.
Shattuck, E. J. & Co., San Francisco, Cal.
Sinclair & Valentine, 5 Marion, New York
Standard Printing Ink Co., Cincinnati, O.
Thalmann Printing Ink Co., St. Louis, Mo.
Ullman, Sigmund Co., 186 William, New York
Underwood, John & Co., 30 Vesey, New York
Webster, F. S. Co., Boston, Mass.
Wilson Printing Ink Co., W. D., 17 Spruce, av, Chicago, Ill.
Wright Printing Ink Co., Phila., Pa.

## 5034— Inks (Stamping)

Carter's Ink Co., Cambridge, Mass.

## 5035— Inks (Writing)

Applegate Chemical Co. (Indelible), 6322 Ellis av, Chicago, Ill.
Banker's Ink Co., Kansas City, Mo.
Barnes National Ink Co., 222 N 5th, Phila., Pa.
Carter's Ink Co., Cambridge, Mass.
Caw's Pen & Ink Co., 46 Vesey, New York
Davids, Thaddeus Co., 97 Vandam, New York

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Diamond Ink Co., Milwaukee, Wis.
Heller, B. & Co., 450 S Jefferson, Chicago, Ill.
Higgins, Chas. M. & Co., 271 9th av, Brooklyn, N. Y.
Keller, Rob't Ink Co., Detroit, Mich.
Kirk, H. D., 171 Washington, Chicago, Ill.
Levison & Blythe Mfg. Co., St. Louis, Mo.
Monarch Glue Co. ("Monarch," Writing & Copying), Cincinnati, O.
Moore, J. & I. E., Warren, Mass.
Paul's Ink Co., Jersey City, N. J.
Sanford Mfg. Co., Chicago, Ill.
Stafford, S. S. (Inc.), 605 Washing'n, New York
Thomas, L. H. Co., 435 S Peoria, Chicago, Ill.
Woodmansee, F. A. ("Woodmansee," Writing & Copying), Cincinnati, O.
Worden Ink & Mfg. Co., 67 Pearl, New York

## 5036— Inkstands & Wells

Aluminum Goods Mfg. Co., Manitowoc, Wis.
American Hard Rubber Co. (Hard Rubber Inkstands), 9 Mercer, New York
Cushman & Denison Mfg. Co. ("Capitol," Non-Evaporating), 240 W 23d, New York
National Sheet Metal Co. ("Nicolene")' Peru, Ill.
Sengbrusch Self Closing Inkstand Co. (Self Closing), Milwaukee, Wis.
Smith & Egge Mfg. Co. ("Irving's Paradox"), Bridgeport, Conn.
Tatum, Sam'l C. Co. (Iron, Glass, Hardwood etc.), Cincinnati, O.
Weeks-Numan Co. ("Victor"), 39 Park, New York

## 5037— Inlets (Fresh Air)

Central Foundry Co., 90 West, New York
Desper, H. A. Mfg. Co., Worcester, Mass.
Du Bois, Fred'k N. & Co., 247 9th av, New York
Fee & Mason, 66 Beekman, New York.
Hart-Ayres Plumbing Co., 4th av c Degraw, Brooklyn, N. Y.
**HAYS MFG. CO., Erie, Pa. (See adv. index, end of book)**
Mott, J. L. Iron Works, 118 5th av, N. Y.
Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

## 5038— Inlets (Sewed)

American Brake Shoe & Foundry Co., Mahwah, N. J.
Barber Mfg. Co., Ashtabula, O.
Buckeye Foundry Co., Cincinnati, O.
Burch Plow Works Co., Crestline, O.
Burr, E. M. Co., Champaign, Ill.
City Foundry Co., 1151 Hamilton, Cleveland, O.
Co-Operative Foundry Co., Detroit, Mich.
Davis & Thomas Co., Catasauqua, Pa.
Defiance Machine Works, Defiance, O.
Duplex Mfg. & Fdry. Co., Cleveland, O.
Firth, Roland & Son, Phillipsburg, N. J.
Ford & Kimball, Concord, N. H.
Globe Foundry & Machine Co., Sheboygan, Wis.
Gregr Mfg. Co., 22d & Wash'n av, Phila, Pa.
Hartnett, John J., Albany, N. Y.
Kramer Bros. Foundry Co., Dayton, O.
Kuhns Bros., Dayton, O.
McDonald Bros., Columbus, O.
McDonald, H. W. Co. ("Star"), Galion, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co. ("Acme"), Cleveland, O.
Muncie Foundry & Machine Co., Muncie, Ind.
Over, Ewald, 426 S Penn, Indianapolis, Ind.
Reeves Foundry Co., Trenton, N. J.
Sessions Foundry Co., Bristol, Conn.
Shunk Plow Co., Bucyrus, O.
South Bend Foundry Co., South Bend, Ind.
Thompson, J. & Co., c Van Horn & Sophia, Phila, Pa.

## 5039— Insecticides

Barrett Chemical Co., 9 N. Moore, New York
Brown's Insecticide Co., 700 8th av, New York
Columbian Insecticide Co., 552 Columbus av, New York
Ellis, Chas. H. & Son, Port Chester, N. Y.
Grasselli Chemical Co., Cleveland, O.
Hammond, Benj., Fishkill, N. Y.
Hygeno Disinfectant Co., Cleveland, O.
Lee, Geo. H. Co., Omaha, Neb.
Leggett & Bro., 301 Pearl, New York
Nicotine Mfg. Co., St. Louis, Mo.

## 5040—Inspection of Iron, Steel, Concrete & General Construction

Bartholomew, H. (Testing a Specialty), Phoenixville, Pa.
**OSBORN ENGINEERING CO., Osborn** bldg, Cleveland, O., & Land Title bldg, Phila., Pa. (See adv. index, end of book)
Stebbings, W. L., Monadnock blk, Chicago, Ill.

## Inspirators
(See Injectors)

## 5041—Instruments (Astronomical)

Bausch & Lomb Optical Co., Rochester, N. Y.
Buff & Buff Mfg. Co., Jamaica Plain, Boston, Mass.
**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end Warner & Swasey Co., Cleveland, O. of book)

## 5042—Instruments (Electrical Testing & Measuring)

**AMERICAN STEEL & WIRE CO. ("A, S & W" Rail Bond Testers),** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Biddle, Jas. G. (Testing), Phila., Pa.
**BRISTOL CO., Waterbury, Conn.** (See adv. index & branch offices, end of book)
Century Electrical Co. ("Century" Field Tester), Syracuse, N. Y.
Chicago Apparatus Co. (For Educational Institutions, etc.), 557 W Quincy, Chicago, Ill.
Cutter Co. (Keystone Measuring), Phila., Pa.
Eldridge Electric Mfg. Co., Springfield, Mass.
Foote, Pierson & Co. ("Delta" Testing), 160 Duane, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Keystone Electrical Instrument Co., 9th & Montgomery av, Phila., Pa.
**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)
Machado & Roller (Electro-Dynamometers for the Measurement of Electric Currents), 203 B'way, New York
Norton Electrical Instrument Co., Manchester, Conn.
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Ritchie, E. S. & Sons, Brookline, Mass.
Sangamo Electric Co., Springfield, Ill.
Thompson-Levering Co., 246 Arch, Phila., Pa.
Wagner Electric Mfg. Co., St. Louis, Mo.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union B'k bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 5043—Instruments (Framing)

Parsons Mfg. Co. ("Milk's," Carpenters' & Builders'), Parsons, Kans.

## 5044—Instruments (Hardness Testing)

**SHORE INSTRUMENT & MFG. CO.,** 557 W 22d, New York. (See adv. index & branch offices, end of book)

## 5045—Instruments (Leveling)

Athol Machine Co., Athol, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## Instruments (Mathematical)

(See Instruments, Nautical; also Scientific; also Engineering & Surveying.

## 5046—Instruments (Musical)

Buescher Band Instrument Co. (Band Instruments), Elkhart, Ind.
Conn, Chas. G. Co. (Band Instruments), Elkhart, Ind.
Wurlitzer, Rudolph Co. (Automatic, etc.), 25 W 33d, New York

## 5047—Instruments (Nautical)

Albrecht, Chas. R., 62 Fulton, New York
Bausch & Lomb Optical Co., Rochester, N. Y.
Bliss, Jno. E. & Co., 128 Front, New York
Hand, Jno. & Sons, 222 Walnut, Phila., Pa.
Keuffel & Esser Co., 127 Fulton, New York
Riggs & Bros., 310 Market, Philadelphia, Pa.
Ritchie, E. S. & Son, Brookline, Mass.
Rupp, Michael & Co., 39 South, New York

## 5048—Instruments of Precision

Alteneder Theo. & Son, 945 Ridge av, Phila., Pa.
Fiego, Alex. J. R., Lynn, Mass.
Gaertner, Wm. & Co. (Measuring), 5349 Lake av, Chicago, Ill.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 5048a—Instruments (Optical)

Gaertner, Wm. & Co., 5349 Lake av, Chicago, Ill.

## 5049—Instruments (Radii Averaging)

**BRISTOL CO. ("Bristol Durand"),** Waterbury, Conn. (See adv. index & branch offices, end of book)

## 5050—Instruments (Scientific)

Bausch & Lomb Optical Co., Rochester, N. Y.
Beckman, L. Co. (Surveying), Toledo, O.
Dietzgen, Eugene Co., 181 Monroe, Chicago, Ill.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
Gaertner, Wm. & Co., 5349 Lake av, Chicago, Ill.
Hanna Mfg. Co. (Mathematical), Troy, N. Y.
Keuffel & Esser Co., 127 Fulton, New York.
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin av, Chicago, Ill.** (See adv. index, end of book)
**SHORE INSTRUMENT & MFG. CO.,** 557 W 22d, New York. (See adv. index & branch offices, end of book)
**SOLTMANN, E. G.**
(Also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Wissler, A. Instrument Works, 601-615 N B'way, St. Louis, Mo.

## 5051—Instruments (Scientific Second-Hand Transits & Levels)

**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**SOLTMANN, E. G.**
(Also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 5052—Instruments (Surgical & Dental)

Betz, Frank S. Co., Hammond, Ind.
Buffalo Dental Mfg. Co., Buffalo, N. Y.

## 5053—Instruments (Telegraph)

Bunnell, J. H. & Co. (Also Telegraph Appliances), Park pl & Church, New York
Dinsmore & Lawton ("D. & L."), 134 Van Buren, Chicago, Ill.
Ericsson, L. M. Telephone Mfg. Co., Buffalo, N. Y.
Foote, Pierson & Co. (Measuring & Testing Instruments of Precision), 160 Duane, New York
Manufacturers' & Investors' Electric Co. ("Morse Watch"), 29 Gold, New York
Omnigraph Mfg. Co., 39 Cortlandt, New York
United States Electric Co. ("Gill" Selector), 95 William, New York
Viaduct Electric Co., Relay, Md.
Voltamp Elec. Mfg. Co., Baltimore, Md.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 5054—Instruments (Testing, Assayers' & Chemists')

Greiner, Emil Co., 45 Cliff, New York

## Instruments (Testing & Measuring)

(See Instruments, Electrical Testing & Measuring)

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## 5055—Instruments (Wireless Telegraph)

Clark Wireless Telegraph-Tel. Co., Detroit, Mich.
International Telegraph Construction Co. ("Shoemaker"), 25 Broad, New York
National Elec. Signaling Co. ("Fessenden"), Pittsburg, Pa.
Radio Telephone Co. ("De Forest"), 103 Park av, New York

## 5056— Insulating Asphalt

Impervious Product Co., Baltimore, Md.
**INDIAN REFINING CO., 123 William, New York.** (See adv. index & branch offices, end of book)
Standard Asphalt & Rubber Co. ("Sarco" Asphalt Gum), 205 La Salle, Chicago, Ill.
Stowell Mfg. Co., Jersey City, N. J.
Warren Chemical & Mfg. Co., 17 Battery pl, New York
**WATSON, H. F. CO., Erie, Pa.** (See adv. index & branch offices, end of book)

## 5057—Insulating Device (Moulded)

Scranton Button Co. (Electroid), Scranton, Pa.
Staunton Dielectric Rubber Co., Muskegon, Mich.

## Insulating Press Boards

(See Press Boards)

## 5058—Insulating Rubberized Asbestos

Boonton Rubber Co., Boonton, N. J.

## 5059—Insulating Saddle Staples

Insulating Saddle Staples Co. (For Electrical Work), Brockton, Mass.

## Insulating Solder, Paste, Salts, Etc.

(See Soldering Flux, Paste, Salts & Stick)

## 5060—Insulating ("Vulcabeston")

**JOHNS-PRATT CO., The, Hartford,** Conn.

## 5061—Insulation (Cold Storage & Refrigerator)

**Armstrong Cork Co., 23d & River, Pittsburg, Pa.**
**Barrett Mfg. Co. (Insulating Rope), 17 Battery pl, New York**
**Carey, Philip Mfg. Co., Lockland, O.**
Cork Insulation Co. ("Excelsior", Corkboard), 59 Pearl, New York
Fay Manilla Roofing Co. (Fabric), Camden, N. J.
**Hydrex Felt & Engineering Co., 120 Liberty, New York**
**JOHNS, H. W.-MANVILLE CO. ("Keystone" Hair, "J-M" Sheet Cork, "J-M" Granulated Cork, "J-M" Hair Felt), 100 William, New York.** (See adv. index & branch offices, end of book)
**National Insulating & Mfg. Co. (Felt), Indianapolis, Ind.**
**Nonpariel Cork Works (Granulated Cork), 50 Church, New York**
**Union Fibre Co. ("Linofelt," Water-proof Lith & Cork Boards), Winona, Minn.**
United Cork Co. ("Star" Cork Board), 50 Church, New York
**WATSON, H. F. CO., Erie, Pa.** (See adv. index & branch offices, end of book)
**WYCKOFF, A. & SON CO. (Wyckoff** Wood Waterproof), Elmira, N. Y., & Alexandria, La. (See adv. index, end of book)

## 5062— Insulation (Cork)

Armstrong Cork Co., Pittsburg, Pa.
Cork Insulation Co. ("Excelsior" Corkboard), 59 Pearl, New York
Nonpariel Cork Works, 50 Church, New York
Union Fibre Co. ("Peerless," Cork, Impregnated Cork, Fire-Proof Cork), Winona, Minn.
United Cork Co. ("Star"), Hoboken, N. J.

## 5062a—Insulation (Moulded Heat-Proof)

Hemming Mfg. Co., Garfield, N. J.

## 5063—Insulator Pins & Brackets

**Absher, W. M. Co. (Wood), North Wilkesboro, N. C.**
Ajax Line Material Co. (Steel), South Milwaukee, Wis.
**Allegheny Pin & Bracket Co., Covington, Va.**
**Barden Elec. & Machinery Co., Houston, Tex.**
**Benecia Iron Works (Steel), Benecia, Cal.**
**Bissell, F. Co., Toledo, O.**
**Blue Ridge Locust Pin Co., Dillsboro, N. C.**
**Brady, T. H. (Steel), New Britain, Conn.**
**Call, Clarence (Locust), No. Wilkesboro, N. C.**
**Central Mfg. Co. (Wood), Chattanooga, Tenn.**
**Central Telephone & Elec. Co. ("Bois d'Arc"), St. Louis, Mo.**
**Cohn & Bock (Wood), Princess Ann, Md.**
**Creaghead Engineering Co. ("Creaghead," Malleable Iron), Cincinnati, O.**
**DIAMOND EXPANSION BOLT CO. ("Ajax" Wood Insulator Pins), 90 West, New York.** (See adv. index & branch offices, end of book)
**Electrical Construction Supply Co. ("Chubbuck"), Springfield, O.**
**Electrose Mfg. Co. ("Electrose," Insulator Pins, etc.), 127 N 10th, Brooklyn, N. Y.**
**Elkin Machinery Co. (Wood), Elkin, N. C.**
**Endsley, J. W. (Wood), Somerfield, Pa.**
**Galloway, J. B. Co. (Wood), Clarendon, Ark.**
**Garton, W. R. Co. ("Hivol," "Mabir"), 118 W Jackson boul, Chicago, Ill.**
**Gravely, B. F. & R. P. (Locust Pins, etc.), Martinsville, Va.**
Hallett Iron Works (Steel), W Polk, Chicago, Ill.
**Hardwood Planing Mill Co. ("Gillespie"), San Jose, Cal.**
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
**Hoskins, J. S. Lumber Co., Baltimore, Md.**
Hubbard & Co. (Steel), Pittsburg, Pa.
**K. & B. Co. (Inc.), 8th & Chestnut, Phila., Pa.**
Kettle River Co. (Creosated Wood), Minneapolis, Minn.
**Lanz, M. & Sons, 29th & Carson, Pittsburg, Pa.**
**Locke Insulator Mfg. Co. (Iron), Victor, N. Y.**
Locust Pin Co. (Locust Pins), Front Royal, Va.
**Main Hub & Mfg. Co. (Wood), West Sebocis, Me.**
**Marcus, Harris (Wood), Muscoda, Wis.**
**Metal Finishing Co. ("Beardsley"), Union City, Conn.**
Morris Iron Co. (Iron), 90 West, New York. Works: Frederick, Md.
National Electrical Supply Co., Washington, D. C
**Oliver Iron & Steel Co. (Steel), Pittsburg, Pa.**
**Osborne, M. P. & Son, Camden, N. Y.**
Oshkosh Mfg. Co. ("Kalkeen" Iron), Oshkosh, Wis.
Pettingell, Andrews Co., Boston, Mass.
**Phila. Electrical & Mfg. Co., Phila., Pa.**
**Selling Co., Baltimore, Md.**
Steel Car Forge Co. (Steel), Pittsburg, Pa.
**Texas Arm & Pin Co. (Wood), Beaumont, Tex.**
**Towers Pin & Bracket Co. (Wood), Ellijay, Ga.**
**Valley Forging Co. ("Pittsburg" Steel Cross Arm & Pole Top Pins), Verona, Pa.**

## 5064— Insulator Supports

**Steel City Electric Co. ("Universal" for Steel Work), Pittsburg, Pa.**

## 5065—Insulators (Arc Lamp)

(Insulators or Hangers)

Ajax Line Material Co. ("Volta"), South Milwaukee, Wis.
Anderson, A. & J. M. Mfg. Co., Boston, Mass.
Cutter, Geo. Co. ("Cutter's," Grove), South Bend, Ind.
Fletcher Mfg. Co., Dayton, O.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hubbard & Co., Pittsburg, Pa.
**JOHNS, H. W.-MANVILLE CO.** (Moulded), 100 William, New York. (See adv. index & branch offices, end of book)
Macallen Co., Boston, Mass.
**JOHNS-PRATT CO., THE (Stud & Straight Hanger), Hartford, Conn.**
Morris Iron Co., 90 West, New York
**National Sewing Machine Co., ("Belvidere." "Mayo"), Belvidere, Ill.**
Ohio Brass Co., Mansfield, O.
**Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York**

## 5066— Insulators (Canopy)

Dale Co., 9th av & 13th, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Mica Insulator Co. ("Young"), 68 Church, New York
Macallen Co. ("W. T. C."), Boston, Mass.
Mitchell, Vance Co., 507 W 24th, New York

## Insulators (Fibre)

(See Fibre, Hard)

## 5067— Insulators (Glass)

Brookfield Glass Co. ("Brown," "Crown," "Columbia," "Safety," "O'Brien," "Combination," "Mershon," "Edison," "Jumbo"), 2 Rector, New York
Cumberland Glass Mfg. Co., Bridgeton, N. J.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hemingray Glass Co. ("Muncie Type," "Triple Peticoat," "Prove Type"), Covington, Ky.
Locke Insulator Mfg. Co. ("Triple Peticoat"), Victor, N. Y.
Western Glass Mfg. Co., Denver, Colo.

## 5068— Insulators (Hair)

**JOHNS, H. W.-MANVILLE CO. ("Keystone"),** 100 William, New York. (See adv. index & branch offices, end of book)
Keystone Hair Insulator Co., Pittsburg, Pa.

## 5069—Insulators (Mine Feeder Wire)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Western Electric Co., 500 S Clinton, Chicago, **Ill., & 57 Bethune, New York**

## 5070—Insulators (Moulded Mica)

**JOHNS-PRATT CO., THE, Hartford,** Conn.

## Insulators (Paper, for Cables)

(See Sleeves, Paper)

## 5071—Insulators (Porcelain or Clay)

**Adamant Porcelain Co. (Ltd.), Broadway, Va.**
**Akron Smoking Pipe Co.** (Clay & Porcelain Tubes), Mogadore, O.
**American Carbon & Battery Co., East St. Louis, Ill.**
**Anderson Porcelain Co., East Liverpool, O.**
Bossert Co. (Conduit Outlet), Utica, N. Y.
**Brunt, G. F. Porcelain Co., East Liverpool, O.**
**Colonial Sign & Insulator Co. ("Poke" Telephone), Akron, O.**
**Cook Pottery Co.** (Porcelain), Trenton, N. J.
Diamond Porcelain Co., Trenton, N. J.
**Electric Porcelain Co., East Liverpool, O.**
Electric Porcelain & Mfg. Co. (Of All Kinds), Trenton, N. J.
**GENERAL ELECTRIC CO.** (Porcelain, Wall Floor, Pole, etc.), Schenectady, N. Y. (See adv. index & branch offices, end of book)
**Hartford Faience Co.** (Porcelain), Hartford, Conn.
**Imperial Porcelain Works** (Porcelain, Transmission), Trenton, N. J.
**Locke Insulator Mfg. Co.** (High Voltage, Porcelain & China), Victor, N. Y.
**National Porcelain Co., Trenton, N. J.**
**New Lexington High Voltage Porcelain Co., New Lexington, O.**
**Novelty Burner Co.** (Alva Electrical), Chattanooga, Tenn.
**Ohio Brass Co. ("O-B"), Mansfield, O.**
**Pass & Seymour, Solvay, N. Y.**
**Pittsburg High Voltage Insulator Co.** (Porcelain High Screw Voltage), Derry, Pa.
**Snyder-Hunt Co., Belle Plains, Iowa.**
**Standard China Works ("Security," "Victor Split"), Trenton, N. J.**
**Standard Vitrified Conduit Co.** (Clay Vitrified Salt Glazed), 39 Cortlandt, New York
**Star Porcelain Co., Trenton, N. J.**
**Thomas, R. & Sons Co. ("Boch"), Lisbon, O.**
**Trenton Porcelain Co., Trenton, N. J.**
**Union Electrical Porcelain Works, Trenton, N. J.**
**Union Porcelain Works** (Porcelain), 300 Eckford, Brooklyn, N. Y.
**United States Elec. Porcelain Co., Findlay, O.**
**Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York**
**Wirt Mfg. Co., Burrage, Mass.**

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## 5072— Insulators (Strain)

(See also Trolley Line Materials)

Aurora Specialty Mfg. Co., Aurora, Ill.
Creaghead Engineering Co. ("Bourbon"), 340 Main, Cincinnati, O.
Electric Service Supplies Co. ("Keystone Giant"), 1020 Filbert, Phila., Pa.
Electrose Mfg. Co. ("Electrose," "Safety" & "Disc"), 127 N 10th, Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
General Insulate & Machine Co., 1008 Atlantic av. Brooklyn, N. Y.
**JOHNS, H. W.-MANVILLE CO. ("J-M"),** 100 William, New York. (See adv. index & branch offices, end of book)
**JOHNS-PRATT CO., THE, Hartford,** Conn.
**Locke Insulator Mfg. Co. ("Victor"), Victor, Macallen Co., Boston, Mass. N. Y.**
**Mathias-Hart Co., Baston, Mass.**
Morris Iron Co., 90 West, New York. Works: Frederick, Md.
Ohio Brass Co. ("Ohio" Wood Break), Mansfield, O.
Pass & Seymour, Solvay, N. Y.
Phila. Electrical & Mfg. Co. ("Pemco," Wood), 1232 N 31st, Phila., Pa.
Staunton Dielectric Rubber Co., Muskegon, Mich.
**Western Electric Co. ("Safety"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York**

## 5073—Insulators (Swinging)

Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 5074—Insulators (Third Rail)

(See also Trolley Line Materials)

Akron Smoking Pipe Co., Mogadore, O.
**AMERICAN VULCANIZED FIBRE CO.** (Fibre), Wilmington, Del. (See adv. index, end of book)
Anderson, Albert & J. M. Mfg. Co. ("Aetna"), Boston, Mass.
Aurora Specialty Mfg. Co. ("Eureka"), Aurora, Ill.
Colonial Sign & Insulator Co. (Clear & Semi-Porcelain), Akron, O.
**CONTINENTAL FIBRE CO. (Hard Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)**
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works, Marshalltown Del. (See adv. index, end of of book)
**DIAMOND STATE FIBRE CO, (Hard Fibre), Elsmere, Del. (See adv. index, end of book)**
Electrose Mfg. Co. ("Electrose"), 127 N 10th
Essex Co., Newark, N. J. Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO. (Porcelain),** 100 William, New York. (See adv. index & branch offices, end of book)
National Fibre & Insulation Co. (Fibre), Yorklyn, Del.
**PARKER, J. C. & SONS FIBRE** Co. (Fibre), New Castle, Del. (See adv. index, end of book)
Ohio Brass Co. (Semi-Porcelain), Mansfield, O.
Standard Vitrified Conduit Co. ("Manhattan"), 39 Cortlandt, New York
Staunton Dielectric Rubber Co., Muskegon, Mich.
Thomas, R. & Sons Co. (Porcelain), Lisbon, O.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WILMINGTON FIBRE SPECIALTY** Co. ("Fyberoid"), Wilmington, Del. (See adv. index & branch offices, end of book)

## 5075— Insulators (Tree)

Ajax Line Material Co., South Milwaukee, Wis.
Anderson, Albert & J. M. Mfg. Co., 289A, S. B., Boston, Mass.
Brookfield Glass Co., 2 Rector, New York
Cutter, Geo. Co., South Bend, Ind.
Cutter, Scott C. ("Cutter", Glass), Oswego, Ill.
Dunton & Field, Cambridge, Mass.
Fletcher Mfg. Co., Dayton, O.
High Tension Electrical Specialty Co. ("Holmes"), Newton, Mass.
**JOHNS, H. W.-MANVILLE CO. (Porcelain, Glass & Wood),** 100 William, New York. (See adv. index & branch offices.
Ohio Brass Co., Mansfield, O. end of book)
Staunton Dielectric Rubber Co., Muskegon, Mich.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 5076— Insulators (Wall)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
General Insulate & Machine Co., 1008 Atlantic av, Brooklyn, N. Y.
Ohio Brass Co., Mansfield, O.
Staunton Dielectric Rubber Co., Muskegon, Mich.

## 5077— Insurance (Accident)

Aetna Life Insurance Co., Hartford, Conn.
American Fidelity Co., Montpelier, Vt.
Casualty Co. of America, 52 William, New York
Employers' Liability Assurance Corporation (Ltd.), of London, England, Samuel Appleton, Manager & Attorney for U. S., 33 Broad, Boston, Mass.
Fidelity & Casualty Co., 97 Cedar, New York
Frankfort Marine Accident & Plate Glass Insurance Co., 100 William, New York
Gen. Accident Ins. Co., Philadelphia, Pa.
Great Eastern Casualty & Indemnity Co., 290 B'way, New York
London Guarantee & Accident Co., Chicago, Ill.
Maryland Casualty Co., Maryland Casualty bldg, Baltimore, Md., & 100 William, New York
New Amsterdam Casualty Co., 1 Liberty, New York
North American Accident Insurance Co., Rookery, Chicago, Ill.
Ocean Accident & Guarantee Corp., 350 B'way, New York
Pacific Mutual Life Ins. Co., 508 Montgomery, San Francisco, Cal.
Pennsylvania Casualty Co., Scranton, Pa.
Philadelphia Casualty Co., Philadelphia, Pa.
Preferred Accident Ins. Co., 290 B'way, New York
Standard Life & Accident Ins. Co., Detroit, Mich.
**TRAVELERS INSURANCE CO., Hartford, Conn., & 76 William. New York. (See adv. index, end of book)**
**U. S. Casualty Co., 141 B'way, New York**
U. S. Health & Accident Insurance Co., Saginaw, Mich.

## 5078—Insurance (Employers' Liability)

Aetna Life Insurance Co., Hartford, Conn.
American Fidelity Co., Montpelier, Vt.
Casualty Co. of America, 52 William, New York
Employers' Liability Assurance Corporation (Ltd.), of London, England, Samuel Appleton, Manager & Attorney for U. S., 33 Broad, Boston, Mass.
Fidelity & Casualty Co., 97 Cedar, New York
Frankfort Marine, Accident & Plate Glass Insurance Co., 153 La Salle, Chicago, Ill.
General Accident Insurance Co., Phila., Pa.
London Guarantee & Accident Co., of London, England; 315 Dearborn, Chicago, Ill., & 45 Cedar, New York
Maryland Casualty Co., Maryland Casualty bldg, Baltimore, Md., & 100 William, New York
New Amsterdam Casualty Co., 1 Liberty, New York
Ocean Accident & Guarantee Corp., 350 B'way, New York
**TRAVELERS INSURANCE CO., Hartford, Conn., & 76 William, New York. (See adv. index, end of book)**
United States Casualty Co., 141 B'way, New York
United States Fidelity & Guaranty Co., Baltimore, Md.

## 5078a—Insurance (Health)

(See Insurance, Accident)

## 5079—Insurance (Indemnity Bond)

Aetna Indemnity Co., Hartford, Conn.
American Bonding Co. of Baltimore, Baltimore,
American Fidelity Co., Montpelier, Vt. Md.
American Surety Co., 100 B'way, New York
Employers' Liability Assurance Corporation (Ltd.), of London, England, Samuel Appleton, Manager & Attorney for U. S., 33 Broad, Boston, Mass.
Fidelity & Casualty Co., 97 Cedar, New York
Fidelity & Deposit Co., Baltimore, Md.
Guarantee Co. of North America, 111 B'way, New York
Lawyers' Surety Co., 47 Cedar, New York
National Surety Co., 115 B'way, New York, & The Rookery, Chicago, Ill.
Ocean Accident & Guarantee Corp., 350 B'way, New York
Pacific Surety Company, San Francisco, Cal.
**TRAVELERS INSURANCE CO., Hartford, Conn., & 76 William, New York. (See adv. index, end of book)**
**U. S. Fidelity & Guaranty Co., Baltimore, Md.**

## 5080—Insurance & Inspection (Elevator)

(See also Insurance, Indemnity Bond)

**TRAVELERS INSURANCE CO., Hartford, Conn., & 76 William, New York. (See adv. index, end of book)**
Travelers Insurance Co., Hartford, Conn., & 76 William, New York. (See adv. index, end of book)

## 5081—Insurance & Inspection (Steam Boiler)

Casualty Co. of America, 52 William, New York
Employees' Indemnity Co. of Philadelphia, West End Trust bldg., Phila., Pa.
Fidelity & Casualty Co., 97 Cedar, New York
Hartford Steam Boiler Inspection & Insurance Co., Hartford, Conn.
Maryland Casualty Co., Maryland Casualty bldg, Baltimore, Md. & 100 William, New York
Ocean Accident & Guarantee Corp., 350 B'way, New York
Pacific Surety Co., San Francisco, Cal.
Pennsylvania Casualty Co., Scranton, Pa.
Philadelphia Casualty Co., Phila., Pa.
**TRAVELERS INDEMNITY CO., Hartford, Conn.; 1 Madison av, & 76 William, New York**
U. S. Casualty Co., 141 B'way, New York

## 5082— Intensifiers

Bethlehem Steel Co., South Bethlehem, Pa.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Philadelphia Roll & Machine Co. (Hydraulic), 23d & Washington, Phila., Pa.
United Engineering & Foundry Co. (Air, Hydraulic & Steam, Compound or Double), Pittsburg, Pa.
Wood, R. D. & Co. (Hydraulic, Single & Multiple), 400 Chestnut, Phila., Pa.

## 5083— Intercoolers (Air)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 5083a—Interior Building Trim (Steel, Bronze, Etc.)

(See also Bank & Office Fixtures, Metallic)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index, end of book)

## 5084—Interior Finish (Metal Covered "Thorp-Richardson's")

(See also Doors, Metal Covered Entrance)

**THORP FIRE PROOF DOOR CO.,** 1600-1610 Central av, Minneapolis, Minn. (See adv. index & branch offices, end of book)

## 5084a—Interior Finish (Metal Work)

**ART BRASS & WIRE WORKS, De**troit, Mich. (See adv. index, end of book)

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## 5085—Interior Finish (Wholesale Mfrs.)

(See also Interior Hardwood Work Manufacturers & Erectors)

Baltimore Sash & Door Co., Baltimore, Md.
Bardwell-Robinson Co., Minneapolis, Minn.
Bender Co., Hamilton, Ohio
Brockway-Smith Corp'n, Boston, Mass.
Calmar Mfg. Co., Calmar, Ia.
Chicago Mill Work Supply Co., 967 W 20th, Chicago, Ill.
Compound Door Co., St. Joseph, Mich.
Cream City Sash & Door Co., Milwaukee, Wis.
Curtis & Yale Co., Wausau, Wis.
Cypress Lumber Co. (Wholsesale Mfrs.), 88 Broad, Boston, Mass., & Apalachicola, Fla.
Disbrow, M. A. & Co., Lyons, Ia.
Dudley Sash, Door & Lumber Co., Columbus, Ga.
Edmunds Mfg. Co., 1220 S Robey, Chicago, Ill.
Fitzgerald, Speer Co., Pen Argyle, Pa.
Foster-Munger Co., 20th & S Sangamon, Chicago, Ill.
Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.
Gauger, J. A. & Co., W 22d & Laflin, Chicago, Ill.
Gilmour, David, Mfg. Co., 579 Tonawanda, Buffalo, N. Y.
Gould Mfg. Co., Oshkosh, Wis.
Hafner Mfg. Co., Main & Dock, St. Louis, Mo.
Hilgen Mfg. Co., Cedarburg, Wis.
Huttig Mfg. Co., Muscatine, Ia.
Hyde-Murphy Co., Ridgway, Pa.
Indiana Lumber & Mfg. Co., South Bend, Ind.
Kertscher & Co., Elmira, N. Y.
Laird-Norton Co., Winona, Minn.
Lestershire Lumber & Box Co. (Sells Direct), Lestershire, N. Y.
Luick Bros. Co., Ann Arbor, Mich.
McClelland, T. W. Co., Davenport, Ia.
McMillen, R. Co., Oshkosh, Wis.
Menasha Mfg. Co., Menasha, Wis.
Miller, Wm. & Sons Co., Pittsburg, Pa.
Morgan Co., Oshkosh, Wis., & W 22nd & S Union, Chicago, Ill.
Murray & Hill Co. (Hardwood & Cabinet Work), Southern blvd & 143rd, New York
Nauman Co., Waterloo, Iowa
North Vernon Lumber Co., North Vernon, Ind.
Northwestern Lumber Co. (Birch Mouldings, Flooring & Finish), Stanley, Wis.
Orcutt & Porter Co., Mechanicsburg, N. Y.
Paine Lumber Co., Oshkosh, Wis., & 1 Madison av, New York
Radford Sash & Door Co., 845 W 22d, Chicago, Ill.
Redwood Mfg. Co. (Redwood & Oregon Pine, etc.), Oakland, Cal.
Rhinesmith & Simonson, Fort Wayne, Ind.
Riggs Cypress Co. (Cypress), Patterson, La.
Roach & Musser Mfg. Co., Kansas City, Mo.
Roach & Musser Sash & Door Co., Muscatine, Iowa
Roberts, E. L. & Co., W 22d & Union pl. Chicago, Ill.
Rock Island Sash & Door Works, Rock Island, Ill.
Rockwell Mfg. Co., Milwaukee, Wis.
Roehr, C. Co., Bucyrus, O.
St. Louis Sash & Door Works, 3440 N B'way, St. Louis, Mo.
Seattle Cedar Lumber Mfg. Co., Seattle, Wash.
**STEARNS, A. T. LUMBER CO. (Cypress), Neponset, Boston, Mass. (See adv. index, end of book)**
Stuhlmiller Mantel Works, Buffalo, N. Y.
Tolson Lumber & Mfg. Co., Newbern, N. C.
Veit Mfg. Co., Grand Rapids, Mich
Wabash Cabinet Co., Wabash, Ind.
Waccamaw Lumber Co., Bolton, N. C.
Washburn, Williams & Co., Scranton, Pa.
Western Sash & Door Co., Kansas City, Mo.
Whatcom Falls Mill Co. (Red Cedar), Bellingham, Wash.
Werheim Mfg. Co., Wausaw, Wis.
Wheeler, Osgood Co. (Cedar), Tacoma, Wash.
White, Potter & Page Mfg. Co., 415 Willoughby av, Brooklyn, N. Y.
Whitmer-Jackson Sash & Door Co., Cleveland, Ohio
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Winona Lumber Co., Winona, Minn.

## 5085a—Interior Fittings (Steel)

FIRE-PROOF FURNITURE & CONstruction Co. (Bank Vault), Miamisburg, O. (See adv. index, end of book)

## 5086—Interior Hardwood Work (Mfrs. & Erectors)

American Car & Foundry Co. (Jackson & Sharp Plant), Wilmington, Del.
Batavia & New York Wood-Working Co., Batavia, N. Y.
Baulia, Garrell Co., Lakeport, N. H.
Baumgarten, Wm. & Co., 323 5th av, New York
Bender Co., Hamilton, Ohio
Bentell, H. M., Atlanta, Ga.
Bering Mfg. Co., Houston, Tex.
Bishop, J. W. Co., 109 Foster, Worcester, Mass.
Bohn Mfg. Co., 415 Rosabel, St. Paul, Minn.
Bossert, Louis & Son, Grand & Newtown Creek, Brooklyn, N. Y.
Bush Bros., Royersford, Pa.
Calmar Mfg. Co., Calmar, Ia.
Carr-Ryder & Adams Co., Dubuque, Ia.
Carr & Adams Co., Des Moines, Ia.
Chicago Mill Work Supply Co., Chicago, Ill.
Curtis & Yale Co., Wausaw, Wis.
Edmunds Mfg. Co., c S Robey & Washburne av, Chicago, Ill.
Farley & Loetscher Co., Dubuque, Ia.
Flint, Geo. C. Co., 45 W 23d, New York
Frebing Mfg. Co., 45 Centre, Cleveland, O.
Hale & Kilburn Mfg. Co., Phila., Pa.
Hands's, W. H. Sons, 2638 Park av, New York
Harlan & Hollingsworth Co., Wilmington, Del.
Hayden Co., 520 5th av, New York
Hedden, V. J. & Sons Co., Newark, N. J.
Herts Bros. Co., 40 E 75th, New York
Hess, D. S. & Co., 453 5th av, New York
Hoffstatter, Theo. & Co., 589 5th av, New York
Houston Planing Mill, Houston, Tex.
Houston Show Case & Mfg. Co., Houston, Tex.
Huttig Mfg. Co. (Wholesale Mfrs.), Muscatine, Ia.
Hyde-Murphy Co., Ridgway, Pa.
Interior Finish Co., N S, Pittsburg, Pa.

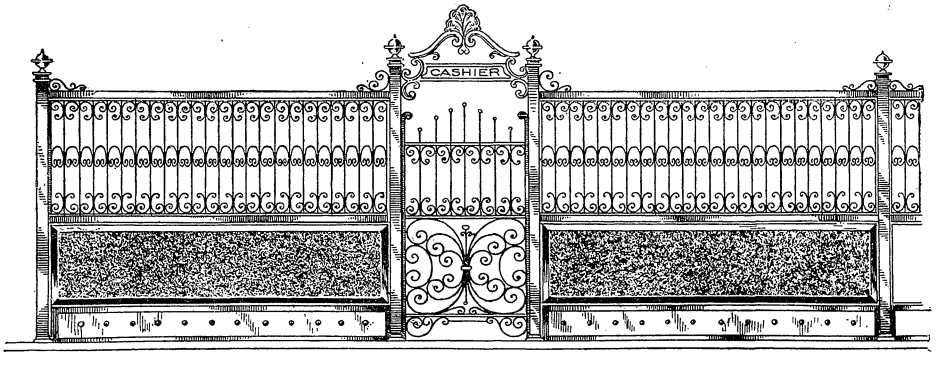

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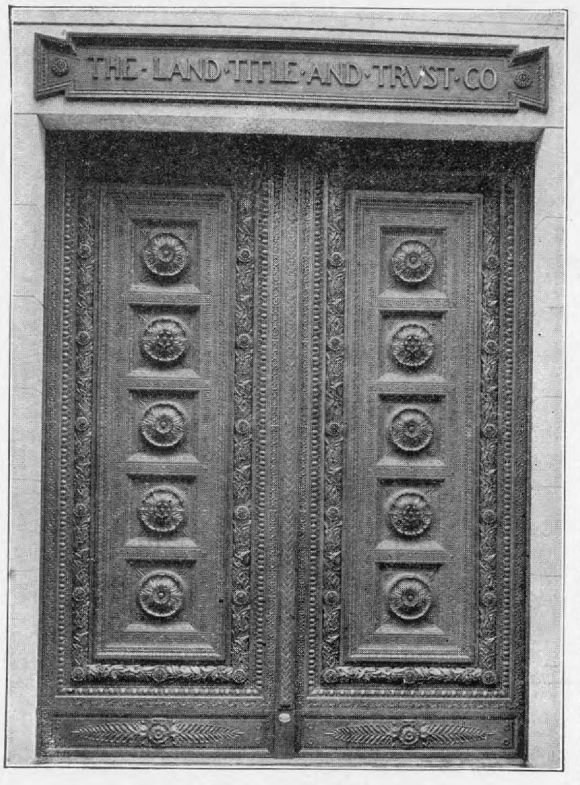
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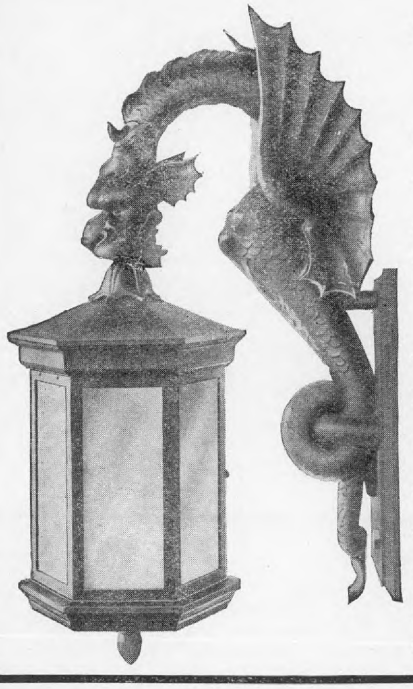
**The New Harris Trust Building, Chicago**
**The New First National Bank Building, Chicago**
**The New York Life Building, Chicago**
**The Railway Exchange Building, Chicago**
**The Heyworth Building, Chicago**
**The New Marshall Field Building, Chicago**
**Columbus Memorial Building, Chicago**
**Commercial National Bank Building, Chicago**
**Cook County Court House, Chicago**
**Corn Exchange National Bank Building, Chicago**
**Blackstone Memorial Library, Chicago**
**Blackstone Memorial Library, Branford, Conn.**
**Continental Trust Building, Baltimore, Md.**
**Land, Title and Trust Building, Philadelpia, Pa.**
**Brown's Palace Hotel, Denver, Col.**
**Merchants' Exchange Building, San Francisco, Cal.**
**Douglas Building, Los Angeles, Cal.**
**New Oliver Office Building, Pittsburg**
**The New Third National Bank Building, St. Louis**
**Hibernia Bank and Trust Co. Building, New Orleans, La.**
**Woodward Building, Birmingham, Ala.**
**Brown Marx Building, Birmingham, Ala.**
**Keystone Bank Building, Pittsburg, Pa.**
**H. C. Frick Building, Pittsburg, Pa.**
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Old National Bank Bldg., Spokane, Wash.
Syndicate Trust Bldg., St. Louis, Mo.
Radisson Hotel, Minneapolis, Minn.
Ohio National Bank Bldg., Columbus, Ohio
Sinton Hotel, Cincinnati, Ohio

### WORK UNDER CONSTRUCTION

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Insurance Exchange, Chicago, Ill.
Union National Bank Bldg., Houston, Tex.
Central Bank and Trust Bldg., Memphis, Tenn.
Eastern Township Bank, Winnipeg, Man., Canada
Cotton Exchange, Vancouver, B. C.
St. Louis Public Library, St. Louis, Mo.
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Kemper-Buck Mfg. Co., Newark, N. Y.
Kertscher & Co., Elmira, N. Y., & 13 Lawrence, New York
Kilian Bros., 12th av & 30th, New York
Kimbel, A. & Sons, 458 5th av, New York
Kleeman, Wm. & Co., 311 W 59th, New York
Maclean, J. S., Columbus, O.
McConnell Mfg. Co., Hornell, N. Y., & 100 5th av, New York
Mahogany Interior Trim Co., Indianapolis, Ind.
Mansfield Lumber Co., Mansfield, O.
Mason & Co., Burlington, Vt.
Matthews Bros. Mfg. Co., Milwaukee, Wis.
Mertz, Geo. Sons, Port Chester, N. Y.
Miller, William & Sons Co., Pittsburg, Pa.
Mitchell, Robert Furniture Co., Cincinnati, O.
Moore, S. C. & Son, Kokomo, Ind.
Niagara Woodworking Co., Middleport, N. Y.
Northwestern Marble & Tile Co., Minneapolis, Minn.
Orcutt & Porter Co., Mechanicsville, N. Y.
Osgood, Blodgett Mfg. Co., St. Paul, Minn.
Palen's, H. W Sons, Kingston, N. Y.
Passman & Dauere, 501 E 70th, New York
Pinches, J. Co., New Britain, Conn.
Poppert, Geo. Mfg. Co., Milwaukee, Wis.
Pottier & Stymus Co., 375 Lex. av, New York
Raabe, H. & Sons, 319 W 64th, New York
Rambusch Decorating Co., 160 5th av, New York
Rieser, Ely J. & Co., 1st av & 28th, New York
Roehr, C. Co., Bucyrus, O.
Rummler, H. B., 367 W 11th, New York
Schaettler, F., 533 W 34th, New York
Schmid, Geo. A., 702 E Main, Streator, Ill.
Schnute-Holtmann Co., Evansville, Ind.
Seaman, W. S. & Co., Milwaukee, Wis.
Shenk, Henry Co., Erie, Pa., & Lewis blk, Pittsburg, Pa.
Simonson Bros. Mfg. Co., Minneapolis, Minn.
Sloane & Moller, 316 E 64th, New York
Stannard, Ambrose B., 1133 B'way, New York
Strobel, Philip & Sons, 53 Elizabeth, New York
Taylor, Henry Lumber Co., Lafayette, Ind.
Taylor, Wm. M. Mantel & Grate Co. (Inc.), Columbus, Ohio
Tiedt & Markthaler, 276 9th av, New York
Tiffany Studios, 347 Madison av, New York
Uhrich Planing Mill Co., Independence, Kans.
Weybrecht's, J. T. Sons, Alliance, O.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Williamsport Planing Mill Co., Williamsp't, Pa.
**WILSON, JAS. G. MFG. CO., 3 W** 29th, New York. Factory, Norfolk, Va. (See adv. index, end of book)
Wolfinger, Clarence I., 164 LaSalle, Chicago, Ill.
Wollaeger Mfg. Co., Milwaukee, Wis.

## 5086a—Interior Trim (Hollow Metal)

**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 5087—Interior Trim (Steel Coach & Car)

(See also Bank & Office Fixtures, Metallic)
**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## Iron (Angle)

(See Steel Structural Mills)

## 5088—Iron (Architectural & Ornamental)

Star (*) in front of firm names under this classification designates founders who make Builders' Castings, etc.

The following are sub-classifications and duplications of this trade:

Bank & Office Railings.
Elevator Cabs & Cars.
Elevator Cars.
Elevator Enclosures.
Fire Escapes.
Gates (Ornamental Iron).
Grilles (Brass & Bronze).
Grilles (Wrought Iron).
Iron Railings & Fences.
Iron Stair Builders.
Jail & Cell Work (Steel)

### ALABAMA.

BIRMINGHAM—Williamson Iron Co.
HUNTSVILLE—Huntsville Foundry & Machine Works (Nolan & Jones, Props.)
MOBILE—Alabama Iron Works
Buerger, August (Railings)
MONTGOMERY—*Janney, A. A. & Co.

### ARKANSAS.

LITTLE ROCK—Thomas-Fordyce Mfg. Co.
Wing & Stephens Co.
PINE BLUFF—Dilley Foundry Co.

### CALIFORNIA.

FRESNO—Fresno Agricultural Works
Halford, Joseph
Valley Foundry & Machine Works.
HAYWARDS—Linekim & Allen
LOS ANGELES—Bailey Ornamental Iron Co.
*Baker Iron Works, 950 Buena Vista
Llewellyn Iron Works, N Main c Redondo
Union Iron Works, Molino c Palmetto
OAKLAND—Frauneder Ornamental Iron Works
SAN DIEGO—Standard Iron Works
Sterne Bros. Co.
SAN FRANCISCO—Acme Iron & Wire Works
Ajax Brass & Iron Works, 47 Clementina
Architectural Iron & Bronze Works, 2669 16th
Bay City Iron Works, 1243 Harrison
Brode & Clark Iron Works
California Artistic Metal & Wire Co., 349 7th
Central Iron Works
Clinton Bridge & Iron Works, Crocker bldg
Deterding, Chris.
Eureka Iron & Wire Works, 148-50 12th
Golden Gate Structural Iron Works, 107 11th
Hendy, Joshua Machine Works, 75 Fremont
*Jackson, P. H. & Co., 228 1st
Ralston Iron Works, 20th & Indiana
*Rudger-Merle Co.
Schrader Iron Works, 1247 Harrison
*Steiger & Kerr Stove & Foundry Co.
Todt & Peters, 322 Main
Vulcan Iron Works, 604 Mission.
Western Iron Works, 141 Beale
SAN JOSE—Kuchenbeiser, F. & Co.
STOCKTON—Globe Iron Works (Inc.)
*Stockton Iron Works

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*Davis, F. M. Iron Works Co., 723 Larimer
Patterson, M. J. Construction Co.
Pioneer Iron & Wire Works Co.
Queen City Iron & Wire Works Co.
Vulcan Iron Works Co., 1709 Blake
PUEBLO—Pueblo Bridge Co.


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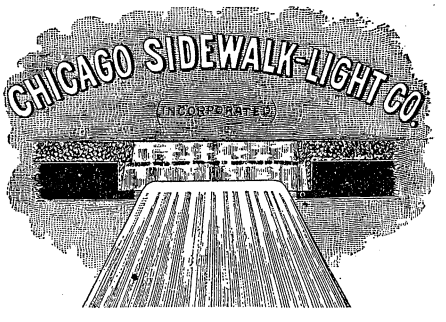
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Meriden Iron & Brass Co.
NEW BRITAIN—*Vulcan Iron Works (Cast-
NEW HAVEN—*Adlerhurst Iron Co. ings)
Barnum, S. H.
*McLagon Foundry Co.
North, O. B.
Sargent & Co.
Smith, Edward F. & Co.
Waas, Jules
Warner, G. F. Mfg. Co.
Wilson, Robert
NORWALK—*Arnold Co. (Castings Only)
NORWICH—*Vaughn Foundry Co. (Inc.)
STAMFORD—*Stamford Iron & Brass Foundry
WATERBURY—Brenner R. Mfg. Co.
*Manufacturers' Foundry Co.
*Waterbury Castings Co.
*Waterbury Foundry Co.
WEST HAVEN—Aldenhurst Iron Co.

## DELAWARE.

WILMINGTON—Davis, Leonard D.

## DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 614 11th, N W
Blatzheim, Jacob, 27 O, N E
*BROWN BROS. MFG. CO., Colorado bldg. (See adv. index, end of book)
Corning, J. H., 520 13th, N W
Gichner, F. S., 1214 D, N W
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Nagel, Frank J. 638 G, N W
*Schneider's, C. A. Sons, 212 12th, N W
Snyder, Frank C., 513 K, N W
Speiden, Chas. E., 620 C. S E
White, F. J., 462 Maine av, S W

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Ashland Iron Works, 1604 W Superior
Baldwin Brass Works, 525 W Van Buren
Barbee Wire & Iron Works (Ornamental Only), 44 Dearborn
Berry, J. M. & L. C., 319 W Ohio
*Bolter's, A. Sons, 84 Lasalle
Bondy, J. L. Wire & Iron Works, 140 Dearborn
Brandes, Carl, 1323 Otto
BROWN BROS. MFG. CO., 22d & Campbell av. (See adv. index, end of book)
*Brown-Ketcham Iron Works (of Indianapolis, Ind.), 98 Jackson boul
*Butler Street Foundry & Iron Co., 3422 Butler
Central Architectural Iron Works (Inc.), 4103 La Salle
Central Iron Works (of Chicago), 939 W Lake
Cerny & Pickas, 2700 W 40th av
Chicago Iron & Steel Works, 733 Fulton
Chicago Bridge & Iron Works, 105th & Throop
*CHICAGO ORNAMENTAL IRON Co., 37th & Stewart av. (See adv. index, end of book)
CHICAGO SIDEWALK LIGHT CO., Shields av & 33d. (See adv. index, end of book)
Columbia Architectural Iron Works, 1231 N Halsted
Columbia Wire & Iron Works (Light Iron & Wire Work), 1933 W Lake
*Dauchy Iron Works (Vault Lights), 233 W Illinois
*Dearborn Foundry Co. (Cast & Wrought), 1525 Dearborn
Duffin's Iron Works, Wentworth av & 40th
Eggers, Jno. Iron Works, 32 S Canal
Englewood Iron Works, 6028 Grove av
Enos Fire Escape Co., 522 N Sangamon
*FLOUR CITY ORNAMENTAL IRON Works (of Minneapolis, Minn.), 138 Wash'n. (See adv. index, end of book)
Gauge Structural Steel Co., 2462 S Paulina
Halsted, Joseph Co., 1233 W Randolph
HANKE IRON & WIRE WORKS, 2550 Fillmore. (See adv. index, end of book)
Hansell-Elcock Co., Archer av & Butler
Harris (The) S. H. Co., 736 Pearce
Heath-Johnson Co., 300 W Ontario
Heineman, Louis, 1535 Melrose
Hickey, M. H. Wire & Iron Works. 60 Dearborn
*Holmes, Pyott Co., 159 N Jefferson
Horn, Wm. Structural Iron Works, 346 N Leavitt
Jennett Bridge & Iron Works, 3541 Shields av
Johnson, Chas. & Son, 320 W Indiana
Kenwood Bridge Co., 1st Nat'l Bank bldg


# BROWN BROS. MFG. CO., Ornamental Iron and Bronze, CHICAGO, ILL.

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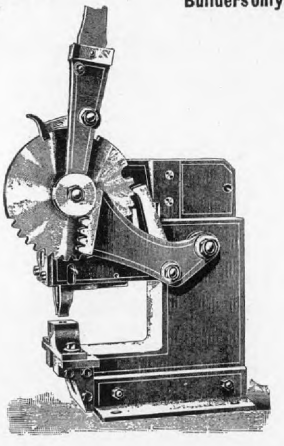


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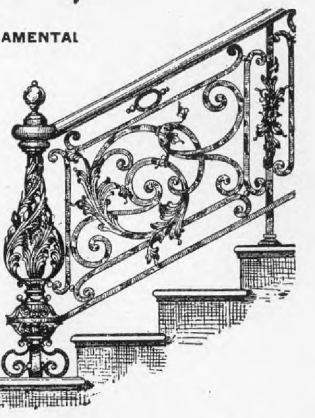
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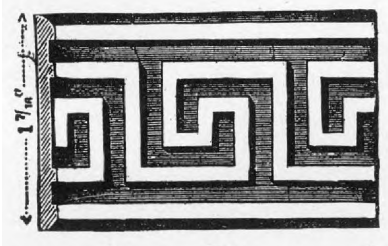
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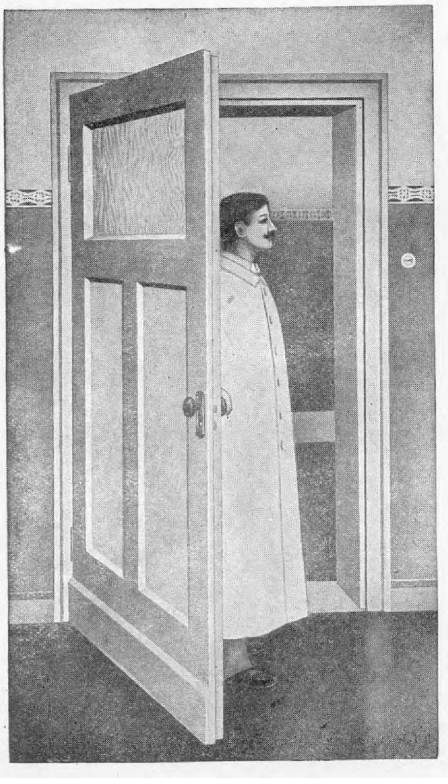

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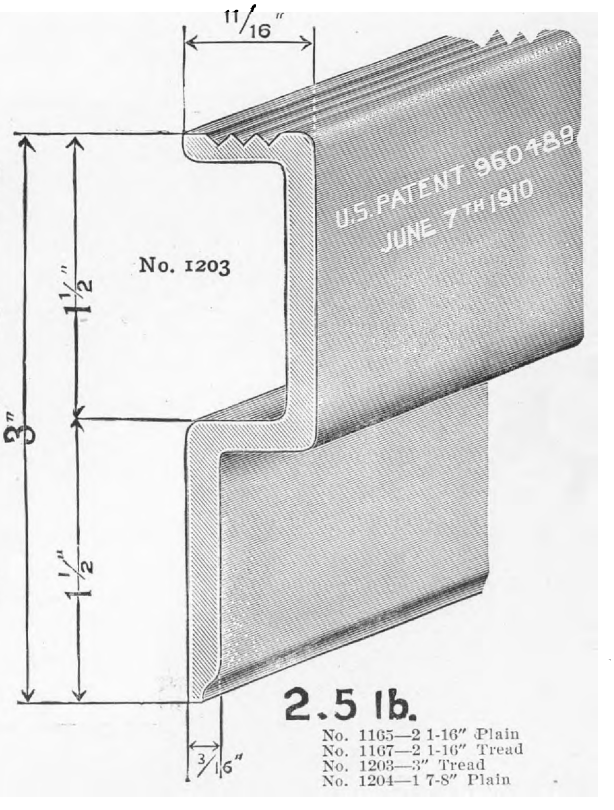
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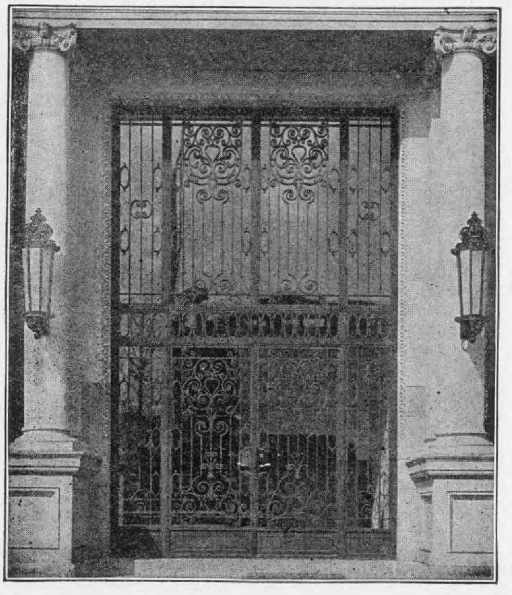



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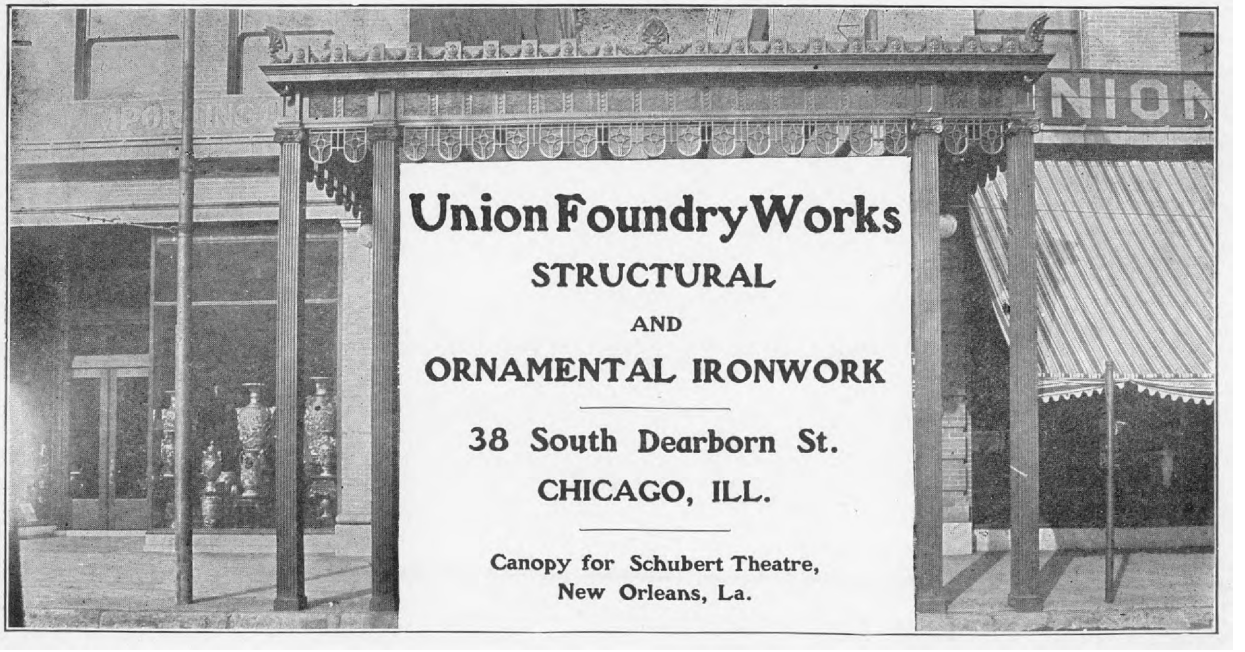
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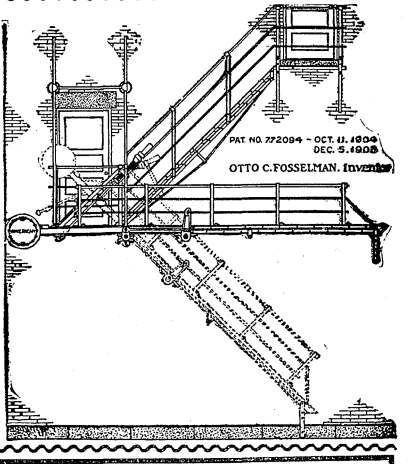

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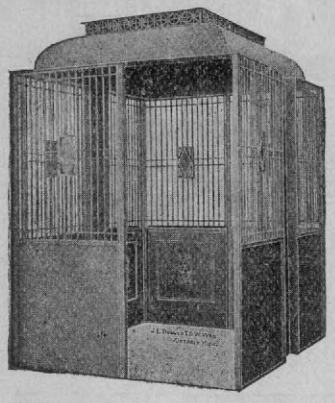
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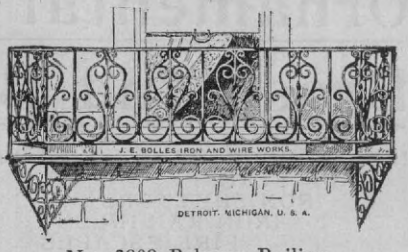



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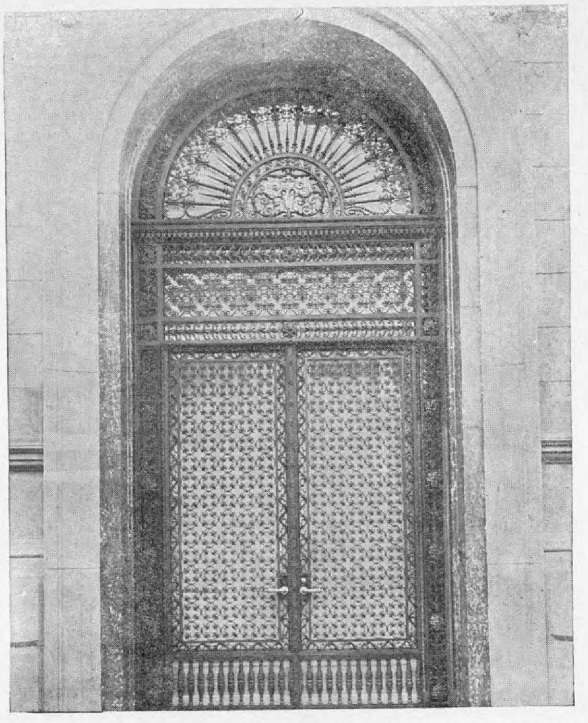
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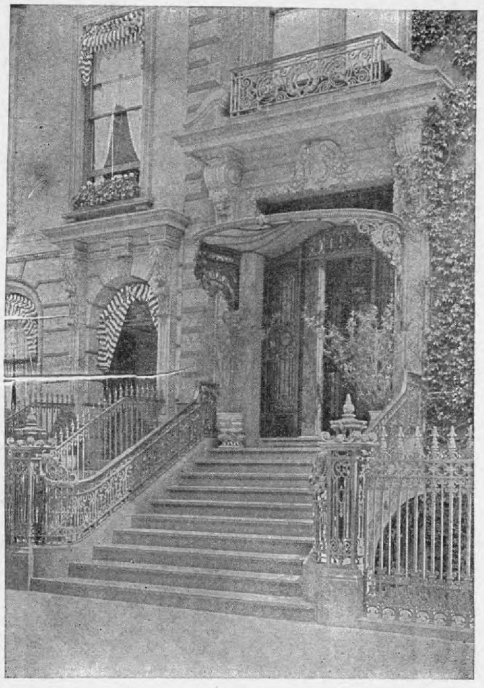
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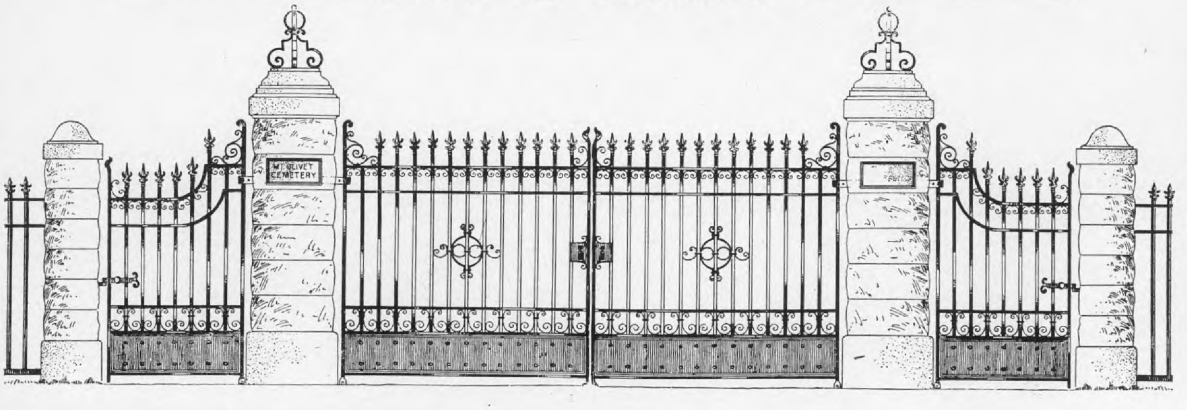
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LITTLE FALLS—Denis, John.
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—American Ornamental Iron
Avery Steel & Iron Co.
*Crown Iron Works Co. & Bronze Co.
*Diamond Iron Works
***FLOUR CITY ORNAMENTAL** Iron Works, 27th st & 28th av. (See adv. index, end of book)
Kienzle & Merrick Mfg. Co., 1214 S 3d
*Menzel & Jeffery Co.
Minneapolis Ornamental Iron Works Co.
***MINNEAPOLIS STEEL & MA**chinery Co. (Cast, Structural & Ornamental). (See adv. index, end of book)
*Northwestern Foundry (Inc.)
*Standard Foundry Co. (Builders' Castings)
*Twin City Iron Works (Builders' Castings, etc.)
Union Iron Works
NEW PRAGUE—*New Prague Foundry Co.
ST. CLOUD—St. Cloud Iron Works Co.
ST. PAUL—Herzog Iron Works, 1044 E 7th
Perkins Mfg. Co., 1821 University av
***ST. PAUL FOUNDRY CO. (Cast** ings, Structural & Ornamental), Como av & Mackubin. (See adv. index, end of book)
*South Park Foundry & Machine Co., Gilfillan blk
*Valley Iron Works (Castings Only)
Western Machine Mfg. Co.
WINONA—*Phenix Iron Works

## MISSISSIPPI.

GREENVILLE—*Wall, Joseph Foundry & Machine Shop
JACKSON—*Mississippi Foundry & Machine Co.
NATCHEZ—Shaw, C. P.
VICKSBURG—Foley, P. J. & Son

## MISSOURI.

BROOKFIELD—Mettler, L. M.
CARTHAGE—*Carthage Fdy. & Machine Works
CLINTON—Industrial Iron Works (Castings, etc.)
HANNIBAL—Dildine Bridge & Const. Co.
KANSAS CITY—***BROWN BROS. MFG.** Co., Long bldg. (See adv. index, end of book)
Kansas City Structural Steel Co., 302 Postal Telegraph bldg
Kansas City Wire & Iron Works, 1430 Oak
Southwest Wire & Iron Works Co., Kansas City, Mo.
Standard Shutter & Iron Works, 1935 Central
Standard Wire & Iron Works, 407 S West boul
Tilk, Frank Ornamental Iron Works Co.
ST. JOSEPH—Crowthers & Rogers Mfg. Co.
Jamieson Machine Co.
ST. LOUIS—*Banner Iron Works, Shaw av & Oak Hill Ry.
**BROWN BROS. MFG. CO., Chem**ical bldg. (See adv. index, end of book)
Central Wire & Iron Works, 813 S 7th
*Christopher & Simpson Archl. Iron & Fdry. Co., 9th & Park av
Empire Iron Works, 1825 N 9th
*Gerst Bros. Mfg. Co., 800 Cass av
Griffiths Iron Works Co., 23d & Papin
Guerdan, F. & Son, 829 S 7th
International Steel Post Co., 717 Chestnut
*Kaysing Iron & Fdry. Co., 2710 N 25th
*Koken Iron Works, Manchester & Chouteau avs
Laclede Iron Works, 309 S 12th
Lasar Mfg. Co.
*Ludlow-Saylor Wire Co., 1105 Locust
Mechanics' Iron Works, 901 S Ewing av
*Mesker & Bro., 427 S 6th
*Missouri Bridge & Iron Co., Fullerton bldg
Mound City Iron Works, 2710 Elliott av
National Iron Works, Victoria bldg
Ornamental Wire & Iron Co., University & Elliott
Rogers-Schmitt Wire & Iron Co., 1714 N B'way
*St. Louis Archl. Iron Co., Lesperance & DeKalb
St. Louis Brass Mfg. Co., Jefferson & Washington
**ST. LOUIS SALES CO., Chemical** bldg. (See adv. index, end of book)
St. Louis Wire & Iron Co., 512 Chouteau av
Schurk Iron Works, 327 S 14th
*South St. Louis Foundry, 1514 S B'way
*Spuck Iron & Fdry. Co., 14th & Branch
*Stupp Bros. Bridge & Iron Co., Frisco bldg
Union Iron & Foundry Co., 1452 S 2d
Usona Wire & Iron Co., 202 S 17th
Victor Iron Works, 7th & Victor
Wellston Iron & Wire Works Co., 4040 Easton av

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Montana Iron Works.
*Western Iron Works.
GREAT FALLS—Great Falls Iron Works
HELENA—Caird Engineering Works

## NEBRASKA.

BEATRICE—Beatrice Iron Works
FREMONT—*Fremont Foundry & Machine Co.
HASTINGS—*Hastings Foundry & Iron Works
LINCOLN—Hedges, C. E.
Smith, R. L., Machine Works.
OMAHA—Champion Iron & Wire Works
*Paxton & Vierling Iron Works
Wearne Bros.
YORK—*York Foundry & Engine Works

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### NEW HAMPSHIRE.

CONCORD—*Concord Foundry & Machine Co.

### NEW JERSEY.

ATLANTIC CITY—Kemper, A. E.
Pettit, Frank
BAYONNE—Clark, W. M. Iron Foundry
CAMDEN—Brown & Getty
**MERRITT & CO., 93 Arch** (See adv. index, end of book)
Olden, Herman
EAST ORANGE—Collinson, Joshua
ELIZABETH—*Moore, S. I. & Sons Co.
HOBOKEN—Buchholtz, C. & Co.
**JERSEY CITY—*Fagan Iron Works**
Feudtner, William
Hamill, Alex. Iron Works
***SNEAD & CO. IRON WORKS, ft. of Pine.** (See adv. index, end of book)
Victorsohn, M. Architectural Iron Works
MADISON—Force, Chas. & Son
**NEWARK—American Coal Chute Co. & Architectural Iron Works, 14 Buffington av**
**Branch Brook Iron & Wire Works, 160 1st**
**Burns Iron Works, 201 Commerce**
**Calumet Iron Works, Balls la**
**Friedman, M. & Co., 96 Somerset**
**Globe Ornamental Iron Works, 133 Lafayette**
**Goeller Iron Works, Waverly**
**Goldberg, E. Iron Works, 42 West**
***Hay Foundry & Iron Works, Plumbs Point la**
**Hedden Iron Construction Co., 22 Clinton**
*Hewitt, John Foundry Co. (Castings Only)
**Industrial Wire & Metal Works, 8 Bloomfield av**
Katchen, B., 84 13th av
**Koller, E. L. Iron Works,, 282 Sussex**
**Lienau's, C. C. Sons, 45 Clinton**
Lowe Iron Works, 207 Berkley av
***Metcalf, Jas. & Co. (Castings Only), 126**
Payne Bros., Emmet, cor Av D Polk
**Smith's, Albert Sons, 73 N. J. R. R. av**
**Solbrig, Fred., 28 Bergen**
Universal Patents Mfg. Co., 25 Wright
NEW BRUNSWICK—*Empire Foundry Co.
*New Brunswick Iron Works (Cast, Wrought & Ornamental), 9 Water
ORANGE—Bulkley, H. W.
PASSAIC—Passaic Architectural Iron Works (Jno. G. Schmidt, Prop.)
PATERSON—Bogert-Carlough Co.
*Eastwood, Benj. Co. (Builders' Castings Only)
Lendrim, H. C.
PLAINFIELD—Kirk, William T.
ROCKAWAY—Lincoln Architectural Iron Co.
TRENTON—Baker, W. H., Mulberry
*Macenzie's, Duncan Sons Co.
WEST HOBOKEN—Courtman, Walter F.

### NEW MEXICO.

ALBUQUERQUE — *Albuquerque Foundry & Machine Co.

### NEW YORK.

ALBANY—Campbell, Harry E. Co.
Frey, Hy.
Hartnett, John J. (Castings Only)
*McKinney, J. & Son
Page's, Isaiah Sons
AUBURN—Crane, W. W.
BINGHAMTON—Shapley & Wells
BUFFALO—Buffalo Structural Steel Co., 166 Dart
Buffalo Wire Works Co., 316 Terrace
*Ernst's, Charles F. Sons, 65 Lathrop
Feine, August, 152 Terrace
Harrower, H. C. Co., 35 Court
Jones Iron Works, 308 Terrace
*Kellogg Iron Works, Mutual Life bldg
*Standard Foundry Co.
*Washington Iron Works
Wurtz & Son (Structural Iron Contractors),
COHOES—*Cohoes Iron Foundry & Machine Co.
JAMESTOWN—*Eagle Foundry & Machine Co.
LONG ISLAND CITY—(See New York City, Borough of Queens)
MASSENA—*Raquette Foundry & Supply Co. (Castings Only)
MOUNT VERNON — **HENRY-BONNARD** Bronze Co. (See adv. index, end of book)

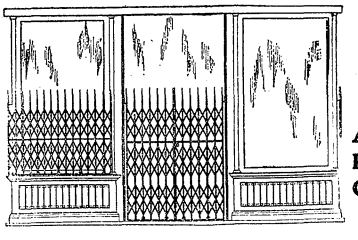
### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Ajax Iron & Wire Co., 75 York
Albee & Godfrey Co., 215 Norman av
Auer, John, Jr., 199 Middleton
Bassett, A. Iron & Wire Works, Wythe av
Bergen Iron Works, 135 51st c Heyward
Binney-Godfrey Co., Kent av
Brooklyn Art Iron Works Co., 1111 Flushing av
Clarke & Stowe, 221 Greenpoint av
Dannemann, A. M., 1057 Madison
*Eagle Iron Works (Inc.), 850 DeKalb av
Estey Bros. Co., Diamond & Meserole av
Feldman, Jno., 1323 Gates av
Felgenhauers, E. Sons, 782 Wythe av
Fluegel, Anton, 219 Cook
General Iron Works, East New York
Gratz, George, Jr., 1141 DeKalb av
Green, B. G., 213 Pacific
Grosback, Wm. & Co., 37 Maspeth av
Hafker, Bryan, 73 N Portland av
Hassler, Fred'k, 2 Sullivan
*Hecla Iron Works, 118 N 11th
Janssen, Bernard H. & Son, 135 Huron
Kalter & Roenick Iron Works, 415 Dumont
Kennington Iron Works, 414 3d av
Kings County Iron Works, 15 Bogart
Knight, John J., Midwood n Albany av
Lister & Fee, 33 S 5th
Lythgoe-Peter, 5610 2d av
McMahus, James W., 257 Navy


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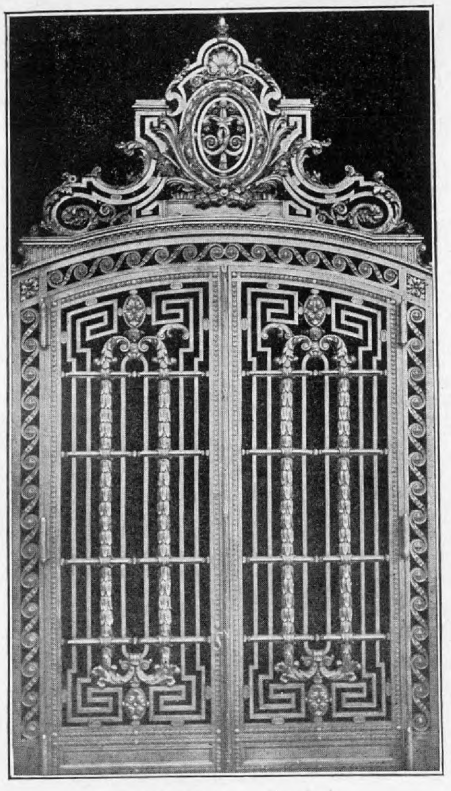


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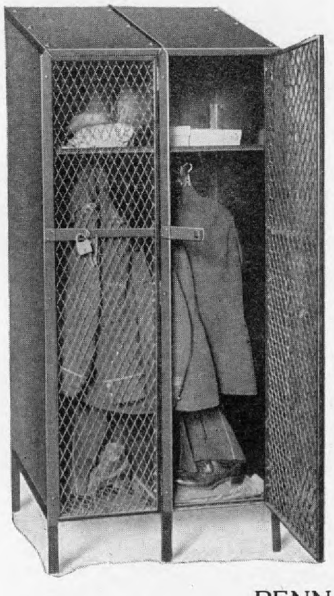
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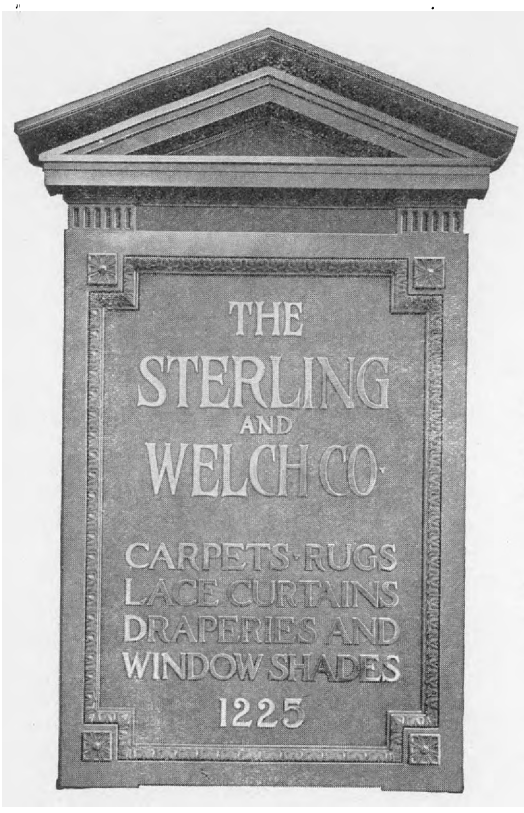
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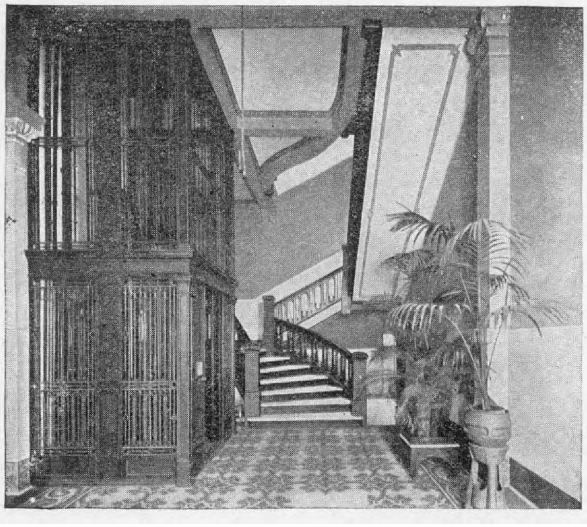
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May, Jacob, 850 De Kalb av
Marcus, Harry, 233 Van Sinderen av
Meyer & Anselm, 173 Van Sinderen av
Mock, Julius, Rutland rd & Schenectady av
Mullon Bros., 184 Union av
Mulstein, Jno. Co., 211 3d av
Nahan & Pinson, 56 Gerry
Nussberger, M., 542 6th av
Olsen, O. L., 203 Diamond
O'Neill Bros., 3819 8th av
Philips, Abraham A. Jr., 2219 Pitkin av
Pinals, L. Co., 460 Flushing av
Pinson & Kahan, 15 Bogart
Pirkl, John, Iron Works, 240 N 10th
Poppke & Son, 805 Lexington av
Powell, John R., 500 Leonard
Progressive Iron Works, 129 Atkins av
Reilly, Thos. F., 202 N 10th
*Reliance Arch'l Iron Works, 253 Monitor
Ridgewood Iron Works, 1606 De Kalb av
Rothamel, Frederick & Son, 270 Knickerbocker av
Schumacher, Jos., 111 Himrod
Schwenn, Wm., 850 Lexington av
Shapiro & Terker, 1111 Flushing av
Steckenreiter, John F. Iron Works, Calyer & Jewell
Stein & Koslowsky, 11 Tompkins av
Stowe, H. C. Construction Co., 221 Greenpoint av
Strubel, Barbara, 100 Wyckoff av
Sweet & Cutler, 109 Cook
Thiede, Ferdinand H., 71 Wallabout
Tuttle-Bailey Mfg. Co., 79 N 10th
**Webb & Bloss, 251 Monitor**
Whale Creek Iron Works, Calyer & Moultrie
Williamsburg Iron & Wire Works, 11 Tompkins av

## Boroughs of Manhattan & Bronx.

NEW YORK—Adelstine & Avrutine, 82 Rutgers
**Adolff, August M., 2078 1st av**
Ahr, Henry, 444 E 148th
Alexander, W. J. & C. Co., 11 Thompson
Alperowitz & Sachs, 345 E 99th
*American Car & Foundry Co. (Castings Only), 165 B'way
**ANCHOR POST IRON WORKS, 147** Nassau. (See adv. index, end of book)
Aronsohn & Goldman, 808 5th
Bagge, Ernest Iron Works, boul & E 144th
Bartlett, J. B. C. Iron Works, 229 W 36th
Bayer, Charles Co., 408 E 125th
Becker, Geo., 545 W 22d
Becker, Jos., 330 Rivington
Berlin Construction Co., St. Paul bldg
Bernstein, Harris Iron Works, 1399 Ave A
*Bethlehem Foundry & Machine Co. (Cast & Wrought, of South Bethlehem, Pa.), 149 B'way
Bleecker & Nooger, 412 E 151st
Borkstrom, Oscar G., 225 E 148th
Bowes, Jno. J., 227 W 29th
***BROWN BROS. MFG. CO., 1123** B'way. (See adv. index, end of book)
Bronx Iron Works, 518 Wales av
*Brown-Ketcham Iron Works (of Indianapolis, Ind.), 1170 B'way
Buellesbach, Jos. Iron Works, 518 Wales av
Builders' Iron Works, E 144th
Burkhardt, John, 620 W 55th
Busse, Armand (Manhattan Iron Works), 302 E 98th
Campbell, Harry E. Co., 1123 B'way
Carlin, Luke F. Iron Works, 310 W 40th
**CARPENTER, F. E. CO., 253** B'way. (See adv. index, end of book)
Central Iron Works, 420 E 48th
Chapman, Wm. O., 30 Church
Child, W. C. W., 1 Madison av.
Clark, Peter, 406 W 30th
Clausen, H. C. Iron Works, 508 E 74th
Colonial Iron Works, 447 W 41st
Continental Bronze & Iron Works, 387 3d av
Dahm, Henry, 517 W 45th
**Daniels, Oscar Co., 38 Park row**
Dimond, Thomas, 45 W 34th
**Diamond & Skobel, 353 E 119th**
Dry Dock Iron Works, 169 Ave D
Duvinage, Pierre, 253 B'way
Eagle Iron Works, 403 E 117th
Eagle Wrought Iron Works, 580 Robbins av
East Side Iron Works, 450 E 167th
Edelmann, L., 319 E 94th
Egan, Joseph, 306 W 68th
Eisner Bros., 654 E 12th
Elliott, Jno. Iron Works, 8 Gold
Empire City Iron Works (Inc.), 836 10th av
Ernst, Gustave, 505 E 165th
**ESTEY WIRE WORKS CO., 59** Fulton. (See adv. index, end of book)
Fiebiger & Heinrich, 205 Ave D
**Fiske, J. W. Iron Works, 56 Park pl**
Friedman & Gordon Iron Works, 806 5th
Fritz, Meyer Iron Works, 201 E 72d
Garman Bros. & Co., 322 E 75th
Gersmann, Rud., 21 E 137th
Gersmann & Lozner Iron Works, 327 E 122d
Globe Ornamental Iron Works, 90 West
Golden-Klein Iron Works, 817 E 9th
Graf, Martin, 279 Avenue B
Grand Central Iron Works, 212 E 52d
Greenfield, Wm. J., 45 W 34th
Grossman Bros. & Rosenbaum, Willow av & E 133d
Gulash & Karpelowsky, 24 Ave A
Haase, G. J. Iron Works, 147 Baxter
Hafers, Chris Iron Works, 407 W 37th
Halback, C. E. & Co. (Inc.), 27 E 21st
Hanauer, John, 424 E 59th
Happel, Adam, 1801 1st av
**Harris Safety Co. (of Youngstown, O.), 24**
**Hauptmann, Wm., 404 E 104th E 23d**
Hay Foundry & Iron Works, 114 E 28th
Hess, Adam, 417 E 156th
Hinkle Iron Co., 534 W 56th
Hirschhorn, Schoenberger & Krieger, 455 E
Hoehn, Wm., 218 W 20th 173d
**Hokkins & Co., 198 W B'way**
**HOWARD & MORSE (Ornamental** for Interiors), 46 Fulton. (See adv. index, end of book)
Hurwitz & Finkelstein, 407 E 99th
Ilich, Auson G., 1123 B'way
**JACKSON, WM. H. COMPANY, 2-**4-6 W 47th. (See adv. index, end of book)
Jennings, P. Iron Works, 449 W 127th
**Jordis, John J., 354 Robbins av**
Kaplan, Kandra & Co., 438 E 76th
Konop, Waldy Iron Works, 405 E 123d
Kopelson Bros., 536 3d av
Kushakaw, Jacob, 49 3d av
Lenges, Philip Iron Works, 309 E 122d
Levering & Garrigues Co., 552 W 23d
Levine & Posner, 527 E 119th
**Liberty Iron Works, 462 10th av**
**Lieberman & Sanford Co., 629 W 57th**
Lincoln Arch'l Iron Co., 31 E 17th
**Lobel-Andrews Co., 531 W 55th**
Luetkes Iron & Brass Works, 227 W 29th
Lyon, W. E. Iron Works, 202 E 46th
McCann, Patrick Iron Works, 249 E 138th


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Manhattan Iron Works, 302 E 98th
Milliken Bros., 66 B'way
Moreng, Jos. Iron Works, 129 E 18th
*Mott, J. L. Iron Works, 118 5th av
Mugler's Iron Works Co., 841 E 136th
Murphy, T. J., 436 W B'way
*Murray Hill Iron Works Co., 212 E 37th
Neser, John E., 239 W 18th
Olman & Rothstein (Inc.), 633 Concord av
Palmer. B., 231 W 50th
Park Iron Works, 712 E 136th
Pauly Jail Building Co. (of St. Louis, Mo.), 1 Madison av
Pearson, S. P. & Co., 325 E 97th
Perlman, A. Iron Works (Inc.), 1735 West
Pierson & Co., 29 B'way Farms rd
**PITT, WM. R. COMPOSITE IRON** Works ("Pitt-Bostwick" Folding Gates & Guards), 136-138 W 24th. (See adv. index, end of book)
Prince Iron Works, 555 W 33d
*Radley Steel Const. Co., 624 E 19th
Rahtz & Schnitzer, 20 E 138th
Realty Iron Works Co., 135 Mangin
Reisler, Nathan, 801 E 137th
Reynolds, E. P., 409 E 91st
Ring & Konneke, 525 W 24th
Rocker Bros., 330 W 26th
Ross & Sisti, 460 E 10th
Rubin & Rubin, 450 E 167th
Rueth, Jos., 462 10th av
Sanders & Barnett, 447 S Boul
Savitzky & Golomb Co., 134 Mott
Schacht, B. & Silverson, 354 Robbins av
Schorr & Greenburg, 36 St. Mark's pl
Scherbner, Paul Iron Works, 306 E 123d
**SCHREIBER, L. & SONS CO. (of** Cincinnati, O.), 1133 B'way. (See adv. index, end of book)
Selly Iron Works, 20 E 138th
Simons & Mayer, 143 Av D
Solid Construction Co., 251 E 138th
Standard Iron Works, 157 W 29th
Steinel, Bruno, 429 W 26th
Stewart, Jno. H., 319 E 22d
Stolz, Joseph, 854 Jackson av
Tatarsky & Schaffer, 455 E 167th
Taylor, Jas., 223 Mercer
Thompson, Hervey, 176 E 119th
Tiffany Studios (High Grade Ornamental), 351 Madison av
Toop, Wm. H., 2576 Park av
*Tuttle-Bailey Mfg. Co. (Cast), 83 Beekman
**TYLER, W. S. CO. (of Cleveland,** O.), 11 B'way. (See adv. index, end of book)
Uris, Harris H. Iron Works, 525 W 26th
Van Brunt. Wm. C., 625 W. 57th
Veeser, Frank, 368 E 154th
Victor Iron Works (Inc.), 1106 Brook av
Victoria Iron Works, 439 E 104th
Vreeland, G. A., 229 W 36th
W. & R. Iron Works (Inc.), 1240 Wester av
Wells Architectural Iron Co., 219-221 E 144th
Westchester Iron Works, 1368 Purdy
Westervelt, A. B. & W. T., 102 Chambers
Williams, George A. & Sons, 85 Fulton
Williams, John (inc.), 556 W 27th
Zimmermann, L. J., 279 E 148th

### Borough of Queens.

LONG ISLAND CITY—Hawkins Iron Works
Just, Geo. A. Co.
Sandblom Iron Works
MASPETH — (New York City) — *Richey, Browne & Donald (Inc.)

### (End of New York City)

ROCHESTER—*Heughes, F. L. & Co.
Kohlmetz, Chas. E. & H. L.
White Wire Works Co.
SYRACUSE—Dunning, W. D.
Schoeneck Co.
*Smith & Caffrey, Props. (Phoenix-Porter Foundry)
TROY—*Mahony Mfg. Co.
UTICA—Jones, Willis H., 70 Hotel
Steinbrecher, Geo., 183 Columbia
Utica Ornamental Iron Works
WATERTOWN—Wilson, J. C.
YONKERS—Morris, Thos.

## NORTH CAROLINA.

ASHEVILLE—*Asheville Supply & Foundry Co.
BURLINGTON—Cates Machine & Bridge Co.
CHARLOTTE—*Mecklenberg Iron Works
GREENSBORO—Sergeant Mfg. Co.

## NORTH DAKOTA.

FARGO—*Fargo Foundry Co.
Fargo Iron & Metal Co.

## OHIO.

AKRON—Ornamental Iron Works Co.
*Taplin, Rice & Co.
ASHTABULA—Barber Mfg. Co.
BELLEFONTAINE—Bellefontaine Bridge & Steel Iron Co.
CANTON—***CANTON FOUNDRY & MA**chine Co. (Castings, Columns, Sills, Base Plates, etc.) (See adv. index, end of book)
Columbia Iron & Wire Works Co.
CINCINNATI—Ahrens Iron Works Co.
Brown, H. L. Fence & Mfg. Co.
Cincinnati Iron Fence Co.
Cincinnati Mfg. Co. (Ornamental), 1243 W 6th
Columbia Iron Works, 721 Reading rd
Davis & Siehl, 4032 Hamilton av
Egbers, Geo. H. & Bro., 228 E 7th
Frelinger, J. H., 117 W 2d
Grimm. Ig. & Co., 153 E McMicken
Kamman, Walter
Lang, Wm. & Sons Co.
Ley, H. & Co.
Potthoff, W. F. Co., Front & Harriet
Rowekamp Bros., 2620 Colerain av
Schoensberg, Fred., W 8th nr Evans
***SCHRIEBER, L. & SONS CO., 8th** & Eggleston av. (See adv. index, end of book)
Schumacher, Jno. H., 1446 Main
Standard Grille & Fence Co., 1610 Freeman av
Stewart Iron Fence Co., 17th & Madison av
Ward, Wm. E. & Co., 1347 Central av
CLEVELAND—Anchor Fence & Mfg. Co.
*Brooks, T. H. & Co.
Central Wire & Iron Co., 522 Prospect, N W
*City Foundry Co. (Castings)
Cleveland Art Metal Co.
East End Iron & Wire Works
**FOREST CITY STEEL & IRON** Co., 110th nr Detroit av (See adv. index, end of book)
Kirchner's Iron Wire & Bronze Works, 1149 Norwood rd, N E
*Madison Foundry Co. (All kinds of Builders' Castings), 935 Addison rd, N E
National Iron & Wire Co., 3901 Hamilton av, N E
Republic Structural Iron Works Co., 1270 E 53d, N E
Sheer Bros. Fence & Iron Co. (The), 715 E 103d, N E
Stevens Iron Works & Fireproofing Co., 702 New England bldg
**TYLER, W. S. CO. (See adv. in-**dex, end of book)
Union Wire & Iron Co., 224 High av, S E
*Van Dorn Iron Works Co.
*Variety Iron & Steel Works Co., E 40th c
Zeman Iron Works Co. Hamilton
COLUMBUS—Buckeye Wire & Iron Works
*Caldwell-Drake Iron Works (Inc.)
Columbus Structural Steel Co.
**COLUMBUS WIRE & IRON WKS.** Co. (See adv. index, end of book)
Kanode, Henry D.
Krumm, Martin
*McDonald Bros. (Cast Iron), 108 Liberty
Morris, C. E. Co., Curtis & Jefferson avs
Nickel, J. A., 310 Dublin av
DAYTON—City Forge & Iron Works (Andrew Plocher, Prop.)
Lyon, C. H., 415 W. B. bldg
*Ohio Foundry Co. (Castings)
EAST LIVERPOOL — *Patterson Foundry & Machine Co. (Cast Iron Columns, Braces, Rods & Buck Stones)




# COLUMBUS WIRE AND IRON WORKS

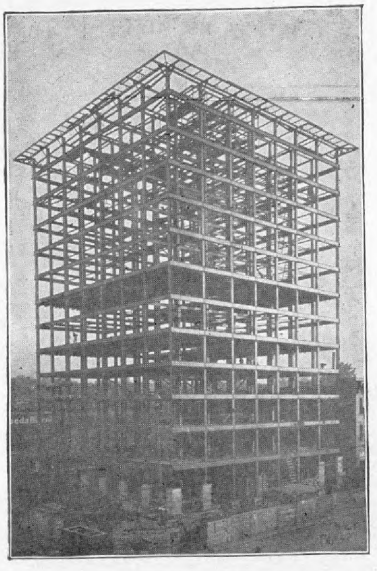
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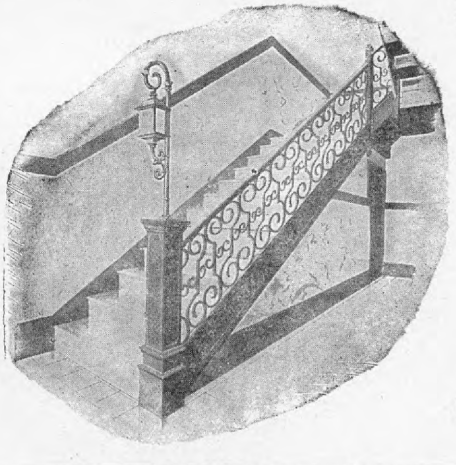
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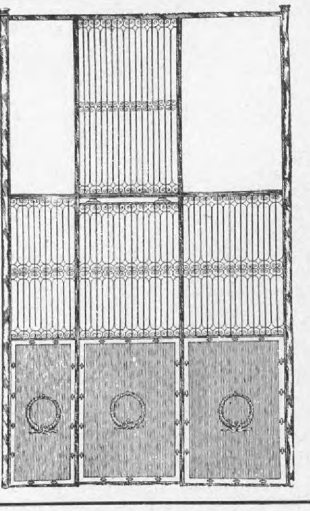
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Wickets
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Jail Work
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Wire Signs
Iron Reservoir Vases
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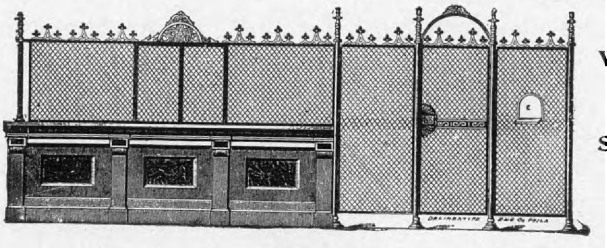
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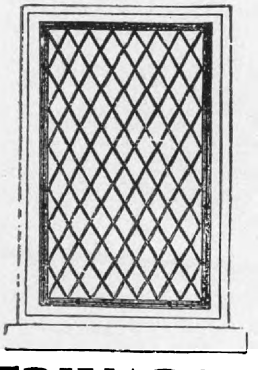
BRASS FOOTRAILS AND PANELS

IRON CHAIRS AND SETTEES

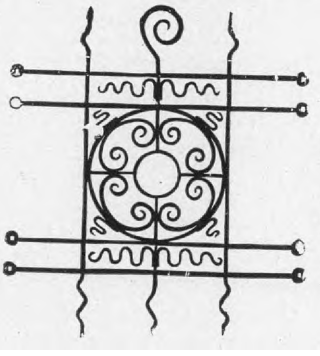


BANK AND OFFICE WICKETS, RAILINGS AND DESK GUARDS.

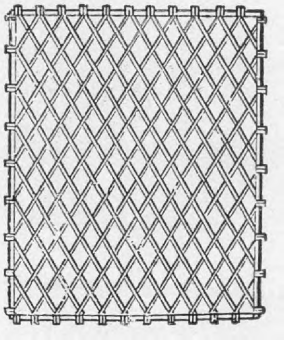
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CATALOGUES MAILED ON APPLICATION

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FINDLAY—McArthur Geo.
FREMONT—*Lehr Agricultural Co.
HAMILTON—**MEYERS, FRED. J. MFG.** Co. (See adv. index, end of book)
KENTON—***CHAMPION IRON CO. (See** adv. index, end of book)
LIMA—*East Iron & Machine Co.
MANSFIELD—Schnitzer, F. F. & Son
MARIETTA—*Pattin Bros. Co. (Castings, etc.)
MIDDLETOWN—Shartle Bros. Machine Co.
SANDUSKY—*Klotz Machine Co.
Mack Iron Works Co.
SPRINGFIELD—*Bayley, Wm. Co.
*Hennesey Foundry Co.
Peet & Shuster Co., 28 S Fountain av
TOLEDO—Art Wire & Iron Works, 2113 Canton
Braunschweiger Bros., 40 Erie
**DONOVAN WIRE & IRON CO.,** Chicago & W & L E Ry. (See adv. index, end of book)
Melinine, H. B. & Co.
*Toledo Foundry & Machine Co.
Toledo Wire & Iron Works
WILMINGTON—Champion Bridge Co.
YOUNGSTOWN—Youngstown Wire & Iron Co.
ZANESVILLE—Union Machine Works

## OKLAHOMA

GUTHRIE—Oklahoma Iron & Metal Co.
Southwestern Iron Co.
OKLAHOMA CITY—Klein, J. B. & Co.
*Oklahoma City Foundry & Machine Shops

## OREGON.

ALBANY—*Albany Iron Works
EUGENE—Frazer, G. N.
PORTLAND—*Honeyman Hardware Co.
Pacific Bridge Co., end Burnside Bridge
*Pacific Iron Works
Phoenix Iron Works
*Portland Iron Works, 495 Northrup
Smith & Watson Iron Works, ft Hall

## PENNSYLVANIA.

ALBION—Rogers Bros.
ALLENTOWN—*Hanlon, John J.
*McDermott Bros.
McDermott Engineering Co.
Reuber, Jos. B.
BETHLEHEM—Guerber Engineering Co.
BLOOMSBURG—*Harman & Hassert (Inc.)
BRADFORD—*Caldwell, E. R. & Co.
BRIDGEPORT—Gehret Bros.
CATASAUQUA—*Davies & Thomas Co. (Builders' Castings Only)
CHESTER—Boulden, Wm. M. & Sons
DANVILLE—*Danville Foundry & Machine Co.
DUBOIS—*Dubois Iron Works
ERIE—*Ball Engine Co.
GREENSBURG—*Greensburg Foundry & Ma-
*Hempfield Foundry Co. chine Co.
HOLLIDAYSBURG—Curran Bros. (Iron Fences,
*McLanahan Stone Machine Co. etc.)
HOMESTEAD—Keystone Ornamental Iron Co.
LANCASTER—Rote, A. B. & Co.
LEBANON—*Wiemer Machine Works Co.
McKEESPORT—*Monongahela & Yough Foun-
Smith, Nimmo & Co. dry Co.
MAUCH CHUNK—Stroh, Wm. H. & Son.
NEWSIDE—Peters, F. N. & Bro.
PHILADELPHIA—*Adams, Wm. Iron Foundry Co. (Inc.), 960 N 9th
Allen Iron & Steel Co., 3rd & Venango
Aubel, F. & E., 2520 N 9th
*Baizley, Jno., Iron Works, 514 S Del av
Bancroft, Chas. P., 1109 Locust
Barnes, Winfield S. & Co., Witherspoon bldg.
*Belmont Iron Works, 22d & Wash'n av
*Biggin, C. P. Co., 1829 Harlan
Boureau, H. U. & Co., 3302 Ludlow
Clopp, Geo. B., 3719 Filbert
Columbia Iron Works, 618 N 4th
*Coyle, H. B. Iron Works, 622 Filbert
*Creswell, Sam'l J. Iron Works, 23d & Cherry
**DARBY, EDW. & SONS CO., 239** Arch. (See adv. index, end of book)
Duckworth, Wilmer E., 937 N 43d
Gaumer, John L. Co., 22d & Wood
Gensel, Fred'k & Co., 911 Vine
Girard Iron Works, 22d & Master
Hannum, Harry, 2642 Coral
Herble, Eugene, Vogdes & Summer
*Hitzeroth, Edward Novelty Iron Works, 3120 Market
Horrocks Iron Works, 234 N Broad
Industrial Ornamental Iron Co., 445 N 5th
Jahn, Wm. R., 3205 Germantown av
Kemper Cons. Co., 905 Walnut
Keystone Structural Co., Harrison bldg
Lee, Benjamin, 807 N Randolph
McArdle, Wm. H. & Son, 513 Bainbridge
Midland Metal Co. (Inc.), 21st & Jefferson
Novelty Iron Works, 3120 Market
O'Neill, Michael, 1531 Filbert
Ornamental Iron Works, 919 S 46th
Pettit, Frank, 805 Master
Philadelphia Art Metal Co., 1748 Huntington Park
Philadelphia Hedge Co., 817 Arcade bldg
Reliable Iron Works, 2650 N Hutchinson
**REMPPIS, WM. F. CO., 1506 Sansom.** (See adv. index, end of book)
Richmond & Co., 1908 Market
Simpson, Robt. G., 1908 S Frazier
Simpson, Washington, 919 S 46th
Smith, A. L. & Co., 228 N Clarion
Sobers, Jacob, 1121 N American
Steel & Wike, Stephen Girard bldg
*Steward & Stevens Iron Works, 9th c Montgomery av
Sutton, W. A. & Co., 925 N 19th
Thompson Bros., 112 Bread
*Thompson, J. & Co., Van Horn c Sophia
Turner, Henry, 4737 N Front
Ward, Joseph, 339 Church la, Gtn
Wark, W. E. & Co., 1737 Filbert
Wayne Iron Works (Inc.), Arcade bldg
Wissahicken Ornamental Iron Works, 1115 Metropolitan av
PITTSBURG—Albree, C. B. Iron Works, N S
Braddock Ornamental Iron & Wire Works, 537 Corey av
Buechele & Davis, 4127 Liberty av
Cornwall, E. & Co., 709 Sarah
**DES MOINES BRIDGE & IRON** Co., 4th & Ross. (See adv. index, end of book)
Hamilton & Lindenfelser, 22d & Mulberry av
Hanny, Chas. G. & Co., 856 North av
Koken Iron Works (of St. Louis), Frick bldg
*Marshall Foundry Co. (Builders' Castings)
Manufacturers' Corporation, Fulton bldg
Penna. Iron & Wire Works Co., Union B'k bldg
**RIESECK, P., Allegheny av &** Rebecca, North Side. (See adv. index, end of book)
*Rosedale Foundry & Machine Co., Columbus & Preble avs
Sommerville Iron & Bronze Co.
Star Ornamental Iron & Wire Works, 1311 Forbes
Stewart-Holland Co., Wabash bldg
**TAYLOR & DEAN, Penn av &** 25th. (See adv. index, end of book)
**TYLER, W. S. CO., Bessemer bldg.** (See adv. index, end of book)
Vilsack, Martin Co. (Ltd.), 3222 Penn av
POTTSTOWN—Weller, M. D.
READING—Kiefer, W. L., 233 S 8th
Reading Scale & Machine Co. (Ltd.)
***REMPPIS, WM. F. CO. (Plain &** Ornamental). (See adv. index, end of book)
Snader, Paul R.
ROYERSFORD—Keystone Structural Co.
SCRANTON—*Finch Mfg. Co.
WAYNESBORO—Smith Fence & Iron Co.
WILKES-BARRE—Eagle Iron Works
*Vulcan Iron Works
Wilkes-Barre Iron Mfg. Co.
YORK—*Smyser, Royer Co.

## RHODE ISLAND.

NEWPORT—*Newport Foundry & Machine Co.
PAWTUCKET—White, J. S. Co.
PROVIDENCE—*Colvin Foundry Co.
Commercial Iron Works (Inc.)
Providence Ornamental Iron Works
Providence Steel & Iron Co. (Cast & Wrought)
Tower, Jas. H., 48 Borden
WOONSOCKET—*Woonsocket Mach. & Press Co. (Builders' Castings)

## SOUTH CAROLINA.

ANDERSON—*Anderson Machine & Foundry Co.
CHARLESTON—*Charleston Iron Works
*Riley, J. F. Foundry & Machine Works
*Riverside Iron Works, Concord
*Valk & Murdoch Iron Works
SPARTANBURG—Morgan Wood & Iron Works


# IMPORTANT

When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible. .. .. .. .. ..

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## SOUTH DAKOTA.

SIOUX FALLS—Pankow Bros.

## TENNESSEE.

CHATTANOOGA—*Cahill Iron Works
*Chattanooga Car & Foundry Co.
Chattanooga Iron & Wire Works
*Chattanooga Roofing & Foundry Co.
Eureka Supply Co.
JACKSON—*Southern Engine & Boiler Works
KNOXVILLE—*Fair Foundry Co. (Inc.)
*Knoxville Foundry & Machine Co.
MEMPHIS—*Chickasaw Iron Works
Livermore, F. & M. Co., 160 Adams
Memphis Wire & Iron Works, 140 S 2d
Pidgeon, Thomas Iron Co., 226 2d
Tennessee Wire & Iron Works, 168 N 3d
NASHVILLE—Nashville Wire & Flueing Co.
Rock City Iron Works
Stewart & Bruckner

## TEXAS.

AUSTIN—Clark, L. P.
*Tips, Walter Foundry
DALLAS—Harry, O. K. Steel Works
*Mosher Mfg. Co.
FORT WORTH—Enterprise Iron Works
Fort Worth Wire & Iron Works
*Van Zandt-Moore Iron Works
GALVESTON—Walsh & Cleary, 213 25th
HOUSTON—Berger, A. A. & Co.
*Dickson Car Wheel Co.
*Hartwell Iron Works
*Houston Car Wheel & Machine Co.
Houston Structural Steel Co.
Riesner, Bernhard A.
*Texas Bridge & Equipment Co.
*Union Iron Works

## UTAH.

SALT LAKE CITY—*Silver Bros. Iron Works Co.
*Utah Foundry & Machine Co., 137 W South Temple

## VIRGINIA.

ALEXANDRIA—Alexandria Iron Works
DANVILLE—*Westbrooks Elevator Co. (Inc.)
NORFOLK—Etna Iron Works, 285 Water
Norfolk Iron & Wire Works
RICHMOND—Carr, Jas. W., 2003 E Main
Old Dominion Iron & Nail Works Co.
*Richmond Iron Works
Richmond Mfg. Co.
Richmond Pattern & Structural Iron Works
Tredegar Iron Works
ROANOKE—*Roanoke Iron Works
*Virginia Bridge & Iron Co.

## WASHINGTON.

SEATTLE—*Olympic Foundry Co. (Buildings, Castings, etc.)
Pacific Ornamental Iron Works
Standard Iron & Wire Works
*Variety Iron Works
SPOKANE—*National Iron Works, Inc.
Simons & Sons
Spokane Ornamental Iron & Wire Works
*Union Iron Works (Inc.)
TACOMA—*Atlas Foundry & Machine Co.
Puget Sound Iron & Steel Works
Tacoma Ornamental Iron Works

## WEST VIRGINIA.

WHEELING—**ARCHITECTURAL IRON** & Wire Works. (See adv. index, end of book)

## WISCONSIN.

APPLETON—*Valley Iron Works Co. (Castings & Columns, etc.)
DE PERE—Western Steel & Iron Works (Steel Gates, Fences, etc.)
EAU CLAIRE—*Phoenix Mfg. Co.
LA CROSSE—Smith Mfg. Co.
Torrance, John & Son
MADISON—Kupfer, Theodore
MILWAUKEE—Badger Wire & Iron Works
Bayley Structural Iron Co.
Colnik, C. Mfg. Co.
Globe Wire & Iron Works, Atkinson av
*Greenslade Foundry Co., Jackson & Corcoran av
Hackendahl & Schmidt, 1515 St. Paul av
Hennecke, C. Co., 378 B'way
Model Iron & Wire Works
National Iron & Wire Works
Pietsch, Ferdinand, 617 Cedar
Standard Iron & Wire Works
Stehling, C. H. Co., 508 Commerce
Wagner, A. F., 514 Market
West Side Architectural Iron Works
Wisconsin Iron & Wire Works
**WORDEN-ALLEN CO., P. O. Box 528.** (See adv. index, end of book)
RACINE—Racine Iron & Wire Works
RHINELANDER—Rhinelander Iron Works
SHEBOYGAN—Optenberg Iron Works Co.
WEST END—*Gehl Bros. Mfg. Co. (Castings Only)

## Iron (Band & Hoop)

(See Iron & Steel, Band & Hoop)

## 5089— Iron Bar Mills

(Also Steel Structural Mills)

Aetna Nut Co. (Merchant Bar, Rounds & Squares, Ovals & Half Rounds & Ovals), Southington, Conn.
Altoona Iron Co. (Refined Merchant Bar, Band, Hoop, Oval, Half Round & Scroll Iron), Altoona, Pa.
American Car & Foundry Co. (Merchant Bars, Flats, Squares, etc.), 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Horse Shoe Co. (Bar Iron), Phillipsburg, N. J.
American Iron & Steel Mfg. Co. (Merchant & Refined Bar), Lebanon, Pa.
American Steel & Wire Co. (Flats for Horse Shoes, etc.), Shoenberger. Works, Pittsburg, Pa.
Ames, W. & Co. (Rounds, Flats & Squares), Jersey City, N. J.
Bethlehem Steel Co. (Double Refined), So Bethlehem, Pa.
Blue Island Rolling Mill & Car Co. (Rounds, Squares & Flats), Fisher bldg, Chicago, Ill.
Boonton Iron & Steel Co. (Bar Iron), Boonton, N. J.
Brown & Co. (Refined Bar & Hammered Iron for Special Purposes), Pittsburg, Pa.
Bryden Horse Shoe Co. (Bar & Other Merchant Iron), Catasauqua, Pa.
Burden Iron Co. (Bar & Other Merchant Iron), Troy, N. Y.
California Industrial Co. (Merchant Bar Iron), Los Angeles, Cal.
Canton Iron & Steel Co. (Merchant Bar), Baltimore, Md.
Carter Iron Co. (Merchant Bar Iron), Pittsburg, Pa.
Clark Steel Hoop Co. (Refined), Punxsutawney, Pa.
Collins Co. (Flats & Squares), Collinsville, Conn.
Colorado Fuel & Iron Co. (Merchant Bar), Denver Colo.
Connors-Weyman Steel Co. (Merchant Bar), Birmingham, Ala.
Davis Bros. (Merchant Bar Iron), 29th & Bristol, Phila., Pa.
Empire Rolling Mill Co. (Merchant Bar Iron), Cleveland, O.
Ewald Iron Co. (Merchant Bar Iron, Hexagon, Round, etc.), Louisville, Ky.
Falls Hollow Staybolt Co. (Staybolt Iron), Cuyahoga, O.
Fort Wayne Rolling Mill Co. (Rounds, Squares, Flats & Ovals), Fort Wayne, Ind.
Gaulbert & Caskey (Merchant Bar Iron), York & American, Phila., Pa.
**GOFF, HORNER & CO., Ltd., Offices,** Oliver bldg., Pittsburg, Pa. (See adv. index, end of book)
Harrisburg Rolling Mill Co. (Refined Merchant Bar), Harrisburg, Pa.
Harrow Spring Co. (Refined Bar Iron), Kalamazoo, Mich.


**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.



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Helmbacher Forge & Rolling Mills Co. (Merchant Bar), St. Louis, Mo.
Highland Iron & Steel Co. (Merchant Bar), Terre Haute, Ind.
Hirsch Rolling Mill Co. (Merchant & Refined Bar), St. Louis, Mo.
Hoopes & Townsend Co. (Merchant Iron), Rounds, Squares & Flats), 1330 Buttonwood, Phila., Pa.
Hughes & Patterson (Bar Iron), Richmond & Susquehanna av, Phila., Pa.
Illingworth, Jno. Steel Co. (Rerolled Swedish & Norway Iron), 25 Cliff, New York. Mills: Frankford, Phila., Pa.
Interstate Iron & Steel Co. (Bars, Flats, Rounds, Squares, Ovals, Half Rounds, Hexagons, Bevel Edge, etc.), 1st Nat'l B'k bldg, Chicago, Ill.
Janson Steel & Iron Co. (High Grade Refined Iron in Rounds, Squares, Flats, etc.), Columbia, Pa.
Job Iron & Steel Co. (Merchant Bar), Ashland, Ky.
Joliet Rolling Mill Co. (Rounds, Squares, etc.), Joliet, Ill.
Judson Mfg. Co. (Merchant Bar Iron), San Francisco, Cal.
Kansas City Bolt & Nut Co. (Merchant Bar Iron), Kansas City, Mo.
Knoxville Iron Co. (Merchant Bar Iron), Knoxville, Tenn.
Lebanon Valley Iron & Steel Co. (Merchant Bar, etc.), Lebanon, Pa.
Licking Rolling Mill Co. (Merchant Bar), Covington Ky.
Lockhart Iron & Steel Co. (Rolled Bar Iron Specialty, "Vulcan", Brand of Iron Bars, Bands, Angles & Channel), McKees Rocks, Pa.
Logan Iron & Steel Co. (Charcoal & Refined Bar Iron, Crown Bars, Flats, Rounds, Squares, Ovals, Half Rounds & Ovals, etc.), Burnham, Pa.
McCoy-Linn Iron Co. (Charcoal, Iron, Rounds, Flats & Squares), Milesburg, Pa.
Manhattan Rolling Mills (Inc.) (Refined Merchants Bar Rolled, Made from Scrap), 362 Av A, New York
Milton Mfg. Co. (Refined Bar Iron), Milton, Pa.
National Rolling Mill Co. (Bar & Finished), Vincennes, Ind.
North Alabama Rolling Mill Co. (Merchant Bar Iron), Sheffield, Ala.
Ohio Falls Iron Co. (Merchant Bar & Iron for Railroad, Bridges & Car Works, etc.), New Albany, Ind.
Old Dominion Iron & Nail Works Co. (Merchant Bar & Bridge Iron), Richmond, Va.
Oliver Iron & Steel Co. (Rounds, Squares, Flats, etc.), Pittsburg, Pa.
Pacific Hardware & Steel Co. (Bar Iron), San Francisco, Cal. Works: Portland, Oregon
Penn Iron Co. (Merchant Bar), Lancaster, Pa.
Phillemac Rolling Mills (Merchant Bars), Woodlawn, O.
Portland Iron & Steel Co. (Flats, Rounds & Squares), South Portland, Me.
Reading Iron Co. (Merchant Bar), Reading, Pa.
Refined Iron & Steel Co. (Refined Engine Bolt Iron; also Chain, Nut & Cold Rivet Iron), Pittsburg, Pa.
Republic Iron & Steel Co. (Common & Refined Bar Iron of all Kinds), Pittsburg, Pa.
Rockaway Rolling Mill (Bar & Double Refined Bars), Rockaway, N. J.
Rome Merchant Iron Mill (High Grade Refined & Merchant Puddled Bars), Rome, N. Y.
Sapulpa Steel & Iron Co. (Bar Iron), Sapulpa, Okla.
Schuylkill Haven Iron & Steel Co. (Merchant & Square Bars, etc.), Schuylkill Haven, Pa.
Scranton Bolt & Nut Co. (Merchant Bar), Scranton, Pa.
Seattle Steel Co. (Bar Iron, Rounds, Squares, Flats, etc.), Seattle, Wash.
Slatington Rolling Mill Co. (High Grade Refined Carriage, Drop Forging, Horse Shoe & Boiler Rivet Iron, etc.) Slatington, Pa.
Sligo Iron & Steel Co. (Refined Iron Bars), Connellsville, Pa.
Standard Chain Co. (Merchant Bar Iron for Harness & Saddlery Work & Chains), Pittsburg, Pa.
Susquehanna Iron Co. (Refined & Merchant Bar, etc.), Columbia, Pa.
Sylvester Company (Merchant Bar Iron), Boston, Mass. Works: Danvers, Mass.
Tennessee Coal, Iron & Railroad Co. (Bar Iron), Birmingham, Ala
Texas Rolling Mill Co. (Rounds, Squares, Flats, etc.), Fort Worth, Tex.
Tredegar Co. (Merchant Bar, Car & Bridge Iron), Richmond, Va.
Tuttle, Chas. W. (Merchant Bar Iron), Auburn, N. Y.
Ulster Iron Works (Puddled Merchant Bar Iron), Dover, N. J.
Union Rolling Mill Co. (Refined Bar Iron; also Bolt, Nut, Rivet & Bridge), Cleveland, O.
Virginia Iron Coal & Coke Co. (Merchant Bar Iron), Roanoke, Va.
Westerman & Co. (Rolled from Scrap, Rounds, Squares, Hexagons & Fancy Shapes & Horse Shoe Iron), Lockport, N. Y.
Western Steel Car & Foundry Co. (Merchant Bar), Chicago, Ill.
Wilmington Iron Co. (Refined Marchant Bar). Wilmington, Del.
Wood, Alan, Iron & Steel Co., 1421 Chestnut, Phila., Pa.
Wurster, F. W. & W. (Merchant Bar Iron), 375 Kent av., Brooklyn, N. Y.
Zug Iron & Steel Co. (For Forging & Machine Shop Work, Including Heavy Sizes of Squares, Flats, Rounds, etc.), Pittsburg, Pa.

## Iron (Boiler & Tank Plate)

(See Iron & Steel, Boiler & Tank Plate)

## 5090— Iron (Bridge)

(See also Steel Structural Mills)

Lockhart Iron & Steel Co., Pittsburg, Pa. Works McKees Rock, Pa.
Logan Iron & Steel Co., Burnham, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Tredegar Co., Richmond, Va.

## Iron Castings

(See Castings, Various Kinds; also Machinists & Founders)

## Iron (Channel)

(See Steel Structural Mills)

## 5091—Iron (Charcoal Sheet)

(See also Iron & Steel Sheet, Black & Galvanized)

American Sheet & Tin Plate Co. (Hammered Bloom Galvanized), Frick bldg, Pittsburg.
**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
Carnahan Tin Plate & Sheet Co. (Tinned), Canton, O.
Ewald Iron Co., Louisville, Ky. Pa.
Garry Iron & Steel Co., Niles, O.
Griffiths Chacoal Iron Mills, Washington, Pa.
Marshall Iron Co. (Best Bloom), Newport, Del.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5092—Iron (Chemical Sheet)

Carter Iron Co., Pittsburg, Pa.

## Iron (Electrical)

(See Iron & Steel Sheet, Electrical)

## 5093— Iron (Engine Bolt)

(See also Iron Bar Mills)

Bethlehem Steel Co. (Double Refined), South Bethlehem, Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Refined Iron & Steel Co., Pittsburg, Pa.

## Iron Fencing

(See Iron Railings & Fences; also Wire Fences & Gates)

## 5094— Iron (Guide)

(See also Iron Bar Mills)

Ewald Iron Co., Louisville, Ky.
Helmbacher Forge & Rolling Mills Co., St. Louis, Mo.
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

## 5095— Iron (Horse Shoe)

(See also Iron Bar Mills)

Clark Steel Hoop Co. ("Eagle Brand"), Punxsutawney, Pa.
Logan Iron & Steel Co., Burnham, Pa.
Rome Merchant Iron Mill, Rome, N. Y.
Sapulpa Steel & Iron Co., Sapulpa, Okla.
Slatington Rolling Mill Co., Slatington, Pa.
Tuttle, Chas. W., Auburn, N. Y.
Westerman & Co., Lockport, N. Y.
Zug Iron & Steel Co., Pittsburg, Pa.

## 5096— Iron (Ingot)

**AMERICAN ROLLING MILL CO.** ("American" Rust Resisting Sheets & Roofing), Middletown, O. (See adv. index & branch offices, end of book)

## 5097— Iron Muck Bar

(This List Contains Only those Firms who Manufacture Muck Bars for Sale)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bailey, Chas. L. & Co., Harrisburg, Pa.
Bethlehem Steel Co. (Low Phosphorus), South Bethlehem, Pa.
Brooke, E. & G. Iron Co., Birdsboro, Pa.
Canton Iron & Steel Co., Baltimore, Md.
Carter Iron Co. (Fine Grades), Pittsburg, Pa.
Colonial Steel Co. (Low Phosphorus), Pittsburg, Pa.
Conners-Weyman Steel Co., Birmingham, Ala.
Danville Structural Tubing Co., Danville, Pa.
Fort Wayne Rolling Mill Co., Fort Wayne, Ind.
Glasgow Iron Co., Pottstown, Pa.
Godcharles, F. A. Co. (3, 4, 5 & 6), Milton, Pa.
Harrisburg Rolling Mill Co., Harrisburg, Pa.
Highland Iron & Steel Co., Terra Haute, Ind.
Interstate Iron & Steel Co., 1st Nat'l B'k bldg, Chicago, Ill.
Joliet Rolling Mill Co., Joliet, Ill.
Kittanning Iron & Steel Mfg. Co., Kittanning,
Knoxville Iron Co., Knoxville, Tenn. Pa.
Lebanon Valley Iron & Steel Co., Lebanon, Pa.
Lessig, Geo. B. Co., Pottstown. Pa.
Logan Iron & Steel Co., Burnham, Pa.
Longmead Iron Co., Conshohocken, Pa.
Milton Mfg. Co., Milton, Pa.
Moorhead Bros. & Co., Sharpsburg, Pa.
Pacific Hardware & Iron Co., San Francisco, Cal.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Potts Bros. Iron Co., Pottstown, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Schuylkill Haven Iron & Steel Co., Schuylkill Haven, Pa.
Seyfert, Samuel R. & Bro., Reading, Pa.
Spang, Chalfant & Co., Pittsburg, Pa.
Susquehanna Iron Co., Columbia, Pa.
Tuttle, Chas. W., Auburn, N. Y.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wilkes Rolling Mills Co., Sharon, Pa.
Williamsport Iron & Nail Co., Williamsport, Pa.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.
Zug Iron & Steel Co. (Puddled Stock), Pittsburg, Pa.

## Iron (Norway)

(See Iron & Steel, Swedish)

## 5098—Iron (Open Hearth)

Newport Rolling Mill Co. (Rust Resisting, Anti-Corrosive Sheets), Newport, Ky.

When writing to firms whose names appear in this book please mention
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## Iron Pier Builders
(See Steel Structural Work)

## Iron (Pipe & Flue)
(See Iron & Steel Skelp)

## Iron (Planished)
(See Locomotive Jacket Iron; also Steel Sheets, Planished & Polished)

## 5098a—Iron Plagues for Fireplace Backs

**JACKSON, WM. H. COMPANY, 2-** 4-6 W 47th, New York. (See adv. index & branch offices, end of book)

## 5099—Iron Railings & Fences

(For other Iron Railing Manufacturers see Iron, Architectural & Ornamental; also Bank & Office Railings; also Wire Fences)

Adams Steel & Wire Co., Joliet, Ill.
Ajax Iron & Wire Co., 75 York, B'klyn, N. Y.
**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end of book)
Armstrong & Parker, Baltimore, Md.
Arundel Iron Works, Baltimore, Md.
Atlanta Wire & Iron Works Co., Atlanta, Ga.
Balderston, H. & Son, Baltimore, Md.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bayley, Wm. Co., Springfield O.
Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
Bergen Iron Works (Inc.), 135 51st, Brooklyn, N. Y.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Brown-Ketcham Iron Works, Indianapolis, Ind.
Buffalo Wire Works Co., Buffalo, N. Y.
**CARPENTER, F. E. CO., 253 B'way,** New York. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Chattanooga Iron & Wire Works, Chattanooga, Tenn.
Chesapeake Iron Works, Baltimore, Md.
**CHICAGO ORNAMENTAL IRON CO.,** 37th & Stewart av, Chicago. (See adv. index, end of book)
Christopher & Simpson Arch'l Iron & Foundry Co., 811 Park av, St. Louis, Mo.
Cincinnati Iron Fence Co., Cincinnati, O.
Columbia Iron & Wire Works Co., Canton, O.
Creswell, S. J. Iron Works, 23d & Cherry, Phila., Pa.
**DARBY, EDWARD & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of book)
Dauchy Iron Works, 223 W Illinois, Chicago, Ill.
Davenport Foundry & Machine Co., Davenport, Ia.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Dietrich Bros., 344 North, Baltimore, Md.
Dimond, Thomas, 128 W 33d, New York
**DONOVAN WIRE & IRON CO. (Railings Only),** Chicago & W L E Ry, Toledo, O. (See adv. index, end of book)
Dow Wire & Iron Works. Louisville, Ky.
Dufur, Baggott & Co., Baltimore, Md.
Dufur & Co., 311 N Howard, Baltimore, Md.
Eagle Iron Works (Inc.), 850 De Kalb av, Brooklyn, N. Y.
Ernest's, Chas. F. Sons, 65 Lathrop, Buffalo, N. Y.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Fletcher & Crowell Co., Portland, Me.
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Glen Mfg. Co., Ellwood City, Pa.
Grote Mfg. Co., Evansville, Ind.
Halsted, Joseph Co., 1233 W Randolph, Chicago, Ill.
**HANKE IRON & WIRE WORKS.** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
Hassell Iron Works Co., Colorado Springs, Col.
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill
Hecla Iron Works, 118 N 11th, Brooklyn, N.Y.
Hennecke, C. Co., Milwaukee, Wis.
**HENRY-BONNARD BRONZE CO., Mt.** Vernon, N. Y. (See adv. index, end of Herzog Iron Works, St. Paul. Minn. book)
**HOWARD & MORSE (For Interiors),** 46 Fulton, New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-** 4-6 W 47th, New York. (See adv. index & branch offices, end of book)
Jones, Willis H., 70 Hotel, Utica, N. Y.
Koehn, Alfred, 157 W 29th, New York
**LANDON, E. R. IRON & WIRE** Works, 166 N May, Chicago, Ill. (See adv. index, end of book)
Lasar Mfg. Co., St. Louis, Mo.
Lauer & Harper Co. (Inc.), Westport, Baltimore, Md.
Linderschmidt Co., Evansville, Ind.
Lobel, Andrews Co., 531 W 55th, New York
Love Bros. (Inc.), Aurora, Ill.
McKinney, Jas. & Son, Albany, N. Y.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**Mast, Foos & Co. (Public Grounds, Cemeteries, etc.), Springfield, O.**
**Mesker, Geo. L. & Co., Evansville, Ind.**
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Northwestern Foundry, Minneapolis, Minn.
Palmer, C. F., Utica, N. Y.
Peters, F. N. & Bro. (Wrought Steel & Cast Iron), Newside, Pa.
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
**PITT, WM. R. COMPOSITE IRON** Works, 136-138 W 24th, New York. (See adv. index, end of book)
Queen City Iron & Wire Warks Co., Denver, Colo.
Racky & Son Iron Works, 2718 Wenthworth av, Chicago, Ill.
Ralston Iron Works, 20th & Indiana, San Francisco, Cal.
**REMPPIS, WM. F. CO., Reading, Pa.,** & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
Richey, Browne & Donald (& Bronze), Maspeth, Borough of Queens. N. Y.
**RIESECK, P., Allegheny av & Re-**becca, N S, Pittsburg, Pa. (See adv. index, end of book)
Scarr & Sullivan Co., 1042 W 11th, Chicago, Ill.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Seiferlein Wire & Iron Works, Detroit, Mich.
Sleeth Mfg. Co., Belleville, N. J.
**SMITH, F. P., WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill (See adv. index, end of book)
Snead Architectural Iron Works, Louisville. Ky.
Snead Architectural Iron Works, Louisville, Ky.
**SNEAD & CO. IRON WORKS, ft. of** Pine st, Jersey City, N. J. (See adv. index, end of book)
Sommerville Iron & Bronze Co., 5637-5649 Butler, Pittsburg, Pa.
**STANDARD CO., Railway Exchange** bldg; Chicago. Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
Thompson, Hervey, 176 E 119th, New York
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See adv. index & branch offices. end of book)
**UNION FOUNDRY WORKS, 38 S** Dearorn, Chicago, Ill. (See adv. index, end of book)
Union Iron & Foundry Co., St. Louis. Mo.
Van Dorn Iron Works Co. (Wrought), Cleveland, O.
Voss. Frederick, 1852 Austin av. Chicago, Ill.
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
Wayne Iron Works (Inc.), Arcade bldg, Phila., Pa.
Wells Architectural Iron Co., 219-221 E 144th New York
West Side Struct'l Co., Watervliet. Troy, N. Y.
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, Milwaukee, Wis.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)
Zeman Iron Works Co., Cleveland, O.

## 5100—Iron (Refined Hammered)

Cyclops Steel Works, Titusville, Pa.

## Iron Roofing & Siding
(See Roofing & Siding, Iron & Steel)

## 5101— Iron (Russia)

Bruce & Cook, 190 Water, New York
Dickerson, Van Dusen & Co., 32 Cliff, New York


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## 5102—Iron (Rust Resisting)

**AMERICA ROLLING MILL CO.** (Patentees & Sole Mfrs. of "American Ingot Iron", Rust Resisting, Black, Painted & Galvanized Sheets), Middletown, Ohio. (See adv. index & branch offices, end of book)
Newport Rolling Mill Co. ("Genuine Open Hearth", Sheets), Newport, Ky.
Stark Rolling Mill Co. ("Toucan", Metal Sheets), Canton, O.

## 5103—Iron (Rustless, Oxidized)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Herzog Iron Works ("Schuldt" Process), St. Paul, Minn.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York.** (See adv. index & branch offices, end of book)

## 5104—Iron Sheets ("American Ingot")

**AMERICA ROLLING MILL CO.** (Patentees & Sole Mfrs. of "American Ingot Iron", Rust Resisting, Black, Painted, Galvanized Sheets & Roofings), Middletown, Ohio. (See adv. index & branch offices, end of book)
**GOFF, HORNER & CO., Ltd. (Rust** Resisting, Black, Painted & Galvanized, for Roofing & Siding). Offices: Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)

## 5105—Iron Sheets (Lead-Coated)

Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa. Works, Conshohocken, Pa.

## Iron Skelp

(See Iron & Steel Skelp)

## 5106— Iron Stair Builders

Ahrens Iron Works Co., Cincinnati, Ohio
Albree, Chester B. Iron Works, N S, Pittsburg, Pa.
Amos, Chas. & Co., Detroit, Mich.
**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
Armstrong & Parker, 361 North. Baltimore.
Arundel Iron Works, Baltimore, Md. Md.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Belmont Iron Works, 22d & Washington av, Phila., Pa.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn
**BROWN BROS. MFG. CO. (Also** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Brown-Ketcham Iron Works, Indianapolis, Ind.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O. (See** adv. index, end of book)
Chattanooga Iron & Wire Works, Chattanooga, Tenn.
Chesapeake Iron Works. Baltimore, Md.
**CHICAGO ONAMENTAL IRON CO.,** 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Chickasaw Iron Works, Memphis, Tenn.
Child, W. C. W., 1 Madison av, New York. & 355 Kingsland av, Brooklyn, N. Y.
City Forge & Iron Works (Andrew Plocher. Prop.), Dayton, O.
Christopher & Simpson Arch'l Iron & Foundry Co., 811 Park av, St. Louis, Mo.
Columbia Iron & Wire Works Co., Canton, O.
Creswell, S. J. Iron Works, 23d & Cherry, Phila., Pa.
Crown Iron Works Co.. Minneapolis, Minn.
Dauchy Iron Works, 223 W Illinois, Chicago, Ill.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Dietrich Bros., 344 North, Baltimore, Md.
**DONOVAN, WIRE & IRON CO., Chi**cago & W & L E Ry, Toledo, O. (See adv. index, end of book)
Eagle Foundry & Machine Co., Fort Scott, Kan.
Eagle Iron Works, 850 De Kalb av, B'klyn, N.Y.
Ernst's, Chas. F. Sons, Buffalo, N. Y.
**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of
Fletcher & Crowell Co., Portland, Me. book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**FOREST CITY STEEL & IRON CO.,** 110th nr Detroit av, Cleveland, O. (See adv. index, end of book)
Glen Mfg. Co., Ellwood City, Pa.
Grossman Bros. & Rosenbaum, Willow av & E 133d, New York
Halsted, Joseph Co., 1233 W Randolph, Chicago, Ill.
**HANKE IRON & WIRE WORKS,** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Hedden Iron Construction Co., Newark, N. J.
**HENRY-BONNARD BRONZE CO., Mt.** Vernon, N. Y. (See adv. index, end of book)
Herzog Iron Works, St. Paul, Minn.
Holmes, Pyott & Co., 159 N Jefferson, Chicago, Ill.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Johnson Engineering & Cons. Co., Battle Creek, Mich.
**LANDON, E. R. IRON & WIRE** Works, 166 N May, Chicago, Ill. (See adv. index, end of book)
Lobel-Andrews Co., 531 W 55th, New York
Love Bros. (Inc.), Aurora, Ill.
McKinney, Jas. & Son, Albany, N. Y.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Mesker Bros., 421 S 6th, St. Louis, Mo.
Mesker, Geo. L. & Co., Evansville, Ind.
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
Mugler's Iron Works, 841 E 136th, New York
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Northwestern Foundry (Inc.), Minneapolis, Minn.
Paxton & Vierling Iron Works, Omaha, Neb.
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
**PITT, WM. R. COMPOSITE IRON** Works (Circular Stairs), 136-138 W 24th, New York. (See adv. index, end of book)
Prince Iron Works, 555 W 33d, New York
Raquette Foundry & Supply Co. (Cast Iron Spiral), Massena, N. Y.
**REMPPIS, WM. F. CO., Reading, Pa.,** & 1506 Sansom, Phila., Pa. (See adv. index end of book)
Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y.
**RIESECK, P., Allegheny av & Re**becca, N S, Pittsburg, Pa. (See adv. index. end of book)
Roanoke Iron Works, Roanoke, Va.
**ST. PAUL FOUNDRY CO., Como** av, & Mackubin, St. Paul, Minn. (See adv. index, end of book)
Scaar & Sullivan Co., 1042 W 11th, Chicago, Ill.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON W'KS.** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith & Caffrey, Prop's. (Phoenix-Porter Foundry), 1421 N Salina, Syracuse, N. Y
Smyser, Royer Co., York, Pa., & Baltimore, Md.
Snead Arch'l Iron Works, Louisville, Ky.
**SNEAD & CO. IRON WORKS, foot of** Pine st., Jersey City, N. J. (See adv. index, end of book)
Sommerville Iron & Bronze Co., 5637-5649 Butler, Pittsburg, Pa.
Standard Architectural Iron Works, 2300 Bloomingdale av, Chicago, Ill.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Steward & Stevens Iron Works, 9th c Montgomery av, Phila., Pa.
Syracuse Architectural Iron Works, Syracuse, N. Y.
**TAYLOR & DEAN, Penn av, & 25th,** Pittsburg, Pa. (See adv. index, end of book)
Thompson, Hervey, 176 E 119th, New York
Tilk, Frank Ornamental Iron Works Co., Kansas City, Mo.
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See adv. index & branch offices, end of book)
**UNION FOUNDRY WORKS, 38 S** Dearborn, Chicago, Ill. (See adv. index, end of book)
Union Iron & Foundry Co., St. Louis, Mo.
Van Dorn Iron Works Co., 2685 E 79th, Cleveland, O.
Vierling, McDowell & Co., 23d & Stewart, Chicago, Ill.
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
Wayne Iron Works (Inc.), Arcade bldg, Phila., Pa.
Wells Architectural Iron Co. (High Grade Cast Work a Specialty), 219-221 E 144th, New York
Western Architectural Iron Co., 408 W Indiana, Chicago, Ill.
West Side Structural Co., Watervliet, Troy, N.Y.
Whale Creek Iron Works, Calyer & Moultree, Brooklyn, N. Y.
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 5107— Iron (Staybolt)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bethlehem Steel Co. ("Bethlehem"), South Bethlehem, Pa.
Carter Iron Co. ("The Carter"), Pittsburg, Pa.
Delaware Seamless Tube Co. (Hollow Staybolt Stock), Auburn, Pa.
Ewald Iron Co. ("Tennessee," Charcoal Bloom & "E.-I.-C." Charcoal), Louisville, Ky.
Falls Hollow Staybolt Co. (Hollow & Solid Staybolt Bars, Made from Double Refined Charcoal Iron & Steel), Cuyahoga Falls, O.
Hughes & Patterson ("H. & P."),800 Richmond, Phila., Pa.
Jones, B. M. & Co. (Inc.) (Importers of "The Taylor," Best Yorkshire), 141 Milk, Boston, Mass., & 141 B'way, New York
Lockhart Iron & Steel Co., Pittsburg, Pa. Works: McKees Rocks, Pa.
Logan Iron & Steel Co., Burnham, Pa.
National Tube Co. (Hollow), Pittsburg, Pa.
Ohio Falls Iron Co., New Albany, Ind.
Old Dominion Iron & Nail Works Co., Richmond, Va.

Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

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Pittsburg Forge & Iron Co. ("Atlas"), Pittsburg, Pa.
Reading Iron Co., Reading, Pa.
Refined Iron & Steel Co. (Double Refined), Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Rockaway Rolling Mill, Rockaway, N. J.
Rome Merchant Iron Mill, Rome, N. Y.
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slatington Iron Co., Slatington, Pa.
Sligo Iron & Steel Co., Connellsville, Pa.
Ulster Iron Works ("Ulster," Special), Dover, N. J.
Union Rolling Mill Co. ("Newburgh"), Cleveland, O.
Zug Iron & Steel Co. ("Sable" Special Railroad), Pittsburg, Pa.

## 5108— Iron Summer Houses

**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
City Forge & Iron Works (Andrew Plocher, Prop.) (Iron & Wire), Dayton, O.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Lewis, Henry B., Detroit, Mich.
**SCHREIBER, L. & SONS CO., 8th & Eggleston** av, Cincinnati, O. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON W'KS.** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av, & 25th,** Pittsburg, Pa. (See adv. index, end of book)

## Iron (Swedish)

(See Iron & Steel, Swedish)

## 5109— Iron (Tagger's)

Phillips Sheet & Tin Plate Co., Wierton, W. Va.

## Iron (Tee)

(See Steel Structural Mills)

## 5110— Iron (Trunk)

Phillips Sheet & Tin Plate Co., Weirton, W. Va.

## Iron & Steel Angles, Channels, Tees, Etc.

(See Steel Structural Mills. Structural Iron or Steel of all Kinds are Classified Under this Heading. See Matter Following Each Firm's Name)

## 5111—Iron & Steel (Band & Hoop)

Altoona Iron Co. (Iron Only), Altoona, Pa.
American Tube & Stamping Co. (Hot & Cold Rolled Steel Hoops & Bands), Bridgeport, Conn.
Atlanta Steel Co. (Open Hearth Steel), Atlanta, Ga.
Carnegie Steel Co. (Iron & Steel Bands & Hoops of all Kinds), Pittsburg, Pa.
Carter Iron Co. ("Carter"), Pittsburg, Pa.
Clark Steel Hoop Co. (Steel), Punxsutawney, Pa.
Colorado Fuel & Iron Co. (Iron & Steel Bands & Hoops), Denver, Colo.
**GOFF, HORNER & CO., Ltd., Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Helmbacher Forge & Rolling Mills Co. (Band Iron Only), St. Louis, Mo.
Hughes & Patterson (Iron Only), Richmond & Susquehanna av, Phila., Pa.
Illinois Steel Co. (Steel Bands), 115 Adams, Chicago, Ill.
Jones & Laughlin Steel Co. (Steel Only), Pittsburg, Pa.
Lockhart Iron & Steel Co. ("Vulcan", Brand of Band Iron), Pittsburg, Pa. Mills: McKees Rocks, Pa.
Lucknow Iron & Steel Co. (Band Iron Only), Harrisburg, Pa.
Old Dominion Iron & Nail Works Co. (Brand Iron Only), Richmond, Va.
Pacific Hardware & Steel Co. (Band Iron Only), San Francisco, Cal. Works: Portland, Ore.
Pittsburg Steel Co. (Steel Bands & Hoops), Pittsburg, Pa.
Republic Iron & Steel Co. (Iron & Steel Bands & Hoops), Youngstown, O.
Rome Merchant Iron Mill (Iron Bands & Hoops), Rome, N. Y.
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sharon Steel Hoop Co. (Steel Bands & Hoops, Galvanized, Pickled, etc.), Sharon, Pa.
West Leechburg Steel Co. (Pickled & Annealed, Open Hearth Steel), Pittsburg, Pa. Works: Leechburg, Pa.

## Iron & Steel Bar

(See Iron Bar Mills; also Steel Bar Mills)

## 5112—Iron & Steel Boiler & Tank Plate

**ALLEGHENY STEEL CO. (Open** Hearth Steel Sheared Plates), Farmers' Bank bldg, Pittsburg, Pa.
**AMERICAN ROLLING MILL CO.** ("American", Ingot Iron), Middletown, Ohio. (See adv. index & branch offices, end of book)
**AMERICAN STEEL & WIRE CO.** (Bessemer & Open Hearth Steel Boiler Tank & Bridge Plate), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cambria Steel Co. (Bessemer, Open Hearth & Nickel Steel), Johnstown, Pa.
Carbon Steel Co. (Steel Only), 32nd & Smallman, Pittsburg, Pa.
Carnegie Steel Co. (Steel Only), Pittsburg, Pa.
Central Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
Crucible Steel Co. of America (Crucible & Open Hearth Steel), Pittsburg, Pa.
Ewald Iron Co. (Tennessee Charcoal, Boiler & Tank Iron), Louisville, Ky.
Glasgow Iron Co. (Iron & Steel), Pottstown, Pa.
**GOFF, HORNER & CO., Ltd. (Iron** Only). Offices: Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Illinois Steel Co. (Open Hearth & Bessemer Steel), 115 Adams, Chicago, Ill.
Inland Steel Co. (Open Hearth Steel), Chicago, Ill.
Jones & Laughlin Steel Co. (Open Hearth Steel), Pittsburg, Pa.
La Belle Iron Works (Bessemer & Open Hearth), Steubenville, O.
Lackawana Steel Co. (Bessemer & Open Hearth Boiler, Bridge & Tank Plate), Buffalo, N.Y.
Lucknow Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth Steel), Coatesville, Pa.
Moorhead Bros. & Co. (Iron & Steel), Sharpsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Otis Steel Co. (Open Hearth Sheared Plates, ¼ inch & heavier & up to 144 inches wide), Cleveland, O.
Portsmouth Steel Co. (Open Hearth Steel ½ in. Thick by 72 in. Wide; Any Length up to 16 ft. Long), Portsmouth, O.
Potts Bros. Iron Co. (Iron Tank Plates), Pottstown, Pa.
Republic Iron & Steel Co. (Tank Iron), Youngstown, Ohio
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Sligo Iron & Steel Co., Connellsville, Pa.
Taylor, N. & G. Co. (Open Hearth Steel Boiler & Tank Plate, No. 6 to 16 Gauge), Phila., Pa.
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.
Wood, Alan Iron & Steel Co. (Basic Open Hearth Steel, etc.), 1421 Chestnut, Phila, Pa.
Worth Bros. Co. (Open Hearth Steel), Coatesville, Pa.

## 5113—Iron & Steel (Corrugated, Mfrs.)

(Firms marked thus (*) Roll their own Sheets)
(See also Roofing & Siding, Iron & Steel)
***AMERICAN ROLLING MILL CO.,** Middletown, O. (See adv. index & branch offices, end of book)
*American Sheet & Tin Plate Co. (Black, Painted & Galvanized), Frick bldg, Pittsburg, Pa.
American Steel & Tube Co., Lorain, O.
***BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W. Congress,** Detroit, Mich. (See adv. index, end
Canton Art Metal Co., Canton, O. of book)
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
*Carter Iron Co. (Iron Only), Pittsburg, Pa.
*De Forest Sheet & Tin Plate Co., Niles, O.
East Birmingham Roofing & Corrugating Co., Birmingham, Ala.
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. (See adv. index & branch offices, end of book)
Eller Mfg. Co., Canton, O.
*Empire Iron & Steel Co. (Bessemer & Open Hearth Steel & Wrought Iron), Niles, O.
*Follansbee Bros. Co. (Iron & Open Hearth Steel), Pittsburg, Pa.
Garry Iron & Steel Co., Niles, O.
Globe Iron Roofing & Corrugating Co., Newport, Ky.
**GOFF, HORNER & CO. (Ltd.) (Steel** Only), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Griffiths Charcoal Iron Mills (Charcoal Iron Sheets), Washington, Pa.
**HYNDMAN ROOFING CO., 31S E 2nd,** Cincinnati, O. (See adv. index, end of book)
*Inland Steel Co. (Open Hearth Steel Only), First Nat'l Bank bldg, Chicago, Ill.
Jersey City Galvanizing Co., Jersey City, N. J.
Kanneberg Roofing & Ceiling Co., Canton, O.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
*Licking Rolling Mill Co. (Iron Only), Covington, Ky.
*Massillon Rolling Mills Co., Massillon, O.
Moeschl-Edwards Corrugating Co., Covington, Ky.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
*McCullough Iron Co. (Steel Only), Wilmington, Del.
N. Y. Iron Roofing & Corrugating Co., Jersey City, N.J.
Niles Corrugating Co., Niles, O.
Niles Iron & Steel Roofing Co., Niles, O.
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, Ohio
*Seneca Iron & Steel Co. (Steel Only), Buffalo,
Sheet Metal Mfg. Co., Niles, O. N. Y.
Souther, E. E. Iron Co., St. Louis, Mo.
Steel Roofing & Stamping Works, Des Moines, Ia.
Sykes Metal Lath & Roofing Co., Niles, O.
Sykes Steel Roofing Co., 930 W 19th pl, Chicago, Ill.
*Thomas Steel Co. (Bessemer & Open Hearth), Niles, O.
Twichell Iron Co., Kansas City, Mo.
*Wheeling Corrugating Co., Wheeling, W. Va.
*Wood, Alan Iron & Steel Co. (Steel), 1421 Chestnut, Phila., Pa.
*Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.
*Youngstown Iron & Steel Co., Youngstown, O.
*Youngstown Sheet & Tube Co., Youngstown, O.
*Zug Iron & Steel Co., Pittsburg, Pa.

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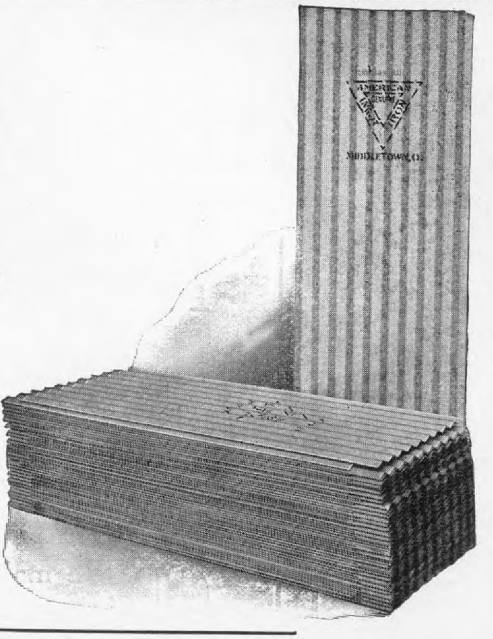
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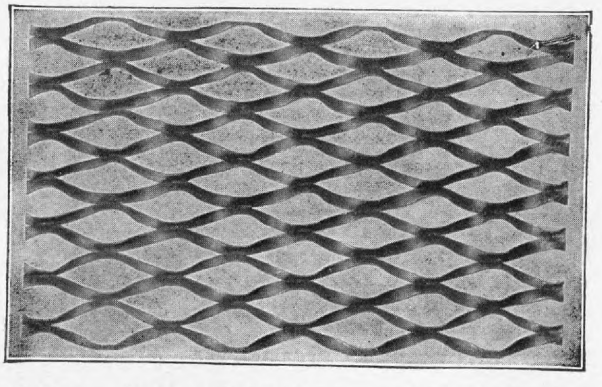



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For Branch Office Addresses See Advertisers Index End of Book

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# INDUSTRIAL INFORMATION

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine, tool or specialty which they may require. :: :: :: :: ::

## Hendricks' Commercial Register

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## 5114—Iron & Steel Sheet (Black & Galvanized)

**ALLEGHENY STEEL CO.** (Black Open-Hearth Sheet Steel for Electric Work, Special Cold Rolled Stamping Steel for Deep Drawing, Nickel Plating, etc.), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**AMERICAN ROLLING MILL CO.** (Iron, Bessemer & Open Hearth Steel Sheets, Black & Galvanized; also Corrugated), Middletown, O. (See adv. index & branch offices, end of book)

American Sheet & Tin Plate Co. (Bessemer & Open Hearth Steel Sheets, Black & Galvanized). Pittsburg, Pa.

American Steel & Tube Co. (Black & Galvanized Iron & Steel), Lorain, O.

Atlanta Tin Plate & Sheet Mill (Black & Galvanized Sheet Iron), Indianapolis, Ind.

**BERGER MFG. CO., THE (Black &** Galvanized Sheet Steel & Iron Sheets for Tinning), Canton, O. (See adv. index & branch offices, end of book)

**BURTON, W. J. CO., 161 W Con**gress, Detroit, Mich. (See adv. index, end of book)

Canonburg Iron & Steel Co. (Black Sheets for Stamping, Enameling, Deep Drawing, Tinning, Stove & Range Work, etc.), Parkersburg, W. Va.

Canonsburg Steel & Iron Works (Iron & Steel Sheets for Stamping, Enamelling, Deep Drawing, Tinning, Galvanizing, etc.), Canonsburg, Pa.

**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)

Canton Sheet Steel Co. ("Winir", Annealed Black & Galvanized), Canton, Ohio

Carnahan Tin Plate & Sheet Co. (Stamping Sheets, all Consumed by the Company), Canton, O.

Carter Iron Co. (Black Iron Chemical Sheets; also Roofing Sheets), Pittsburg, Pa.

Cleveland Steel Co. (Light Steel Plates & Sheets), Cleveland, O.

Colonial Steel Co. (Crucible & Open Hearth Black Steel Sheets, Saw Plates, etc.), Pittsburg, Pa.

De Forest Sheet & Tin Plate Co. (Bessemer & Open-Hearth, Steel & Wrought Iron, 10 to 30 Gauge), Niles, O.

Empire Iron & Steel Co. (Bessemer & Open-Hearth Steel Sheet Steel & Wrought Iron Sheets, Black & Galvanized, 14 to 30 Gauge, Niles, Ohio

Ewald Iron Co. (Iron Sheets), Louisville, Ky.

Follansbee Bros. Co. (Iron & Open Hearth Black Steel Sheets), Pittsburg, Pa.

**GOFF, HORNER & CO., Ltd. (Open** Hearth Steel). Offices: Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)

Griffiths Charcoal Iron Mills (Block & Galvanized Charcoal Iron Sheets). Washington, Pa.

Illingworth, Jno. Steel Co. (Hammered & Rolled Steel Sheets for Tools, Saws, Knives, Files, etc.), 25 Cliff, New York. Mills: Phila., Pa.

Indiana Rolling Mill Co. (High Carbon Sheet Steel for Shovel Plate), New Castle, Ind.

Inland Steel Co. (Open Hearth Sheet Steel, Black & Galvanized), 1st Nat. Bank bldg., Chicago, Ill.

**JESSOP, WM. & SONS, Inc.** ("Jessop's" Best Sheet Steel, 91 John, New York. (See adv. index, end of book)

Job Iron & Steel Co. (Iron & Steel Sheets, Black & Galvanized), Ashland, Ky.

Jones & Laughlin Steel Co. (Bessemer Steel Sheets), Pittsburg, Pa.

La Belle Iron Works (Open Hearth Steel Sheets, Black & Galvanized, 10 to 30 Gauge), Steubenville, O.

Licking Rolling Mill Co. (Sheet Iron), Covington, Ky.

McCullough Iron Co. (Black & Galvanized Steel Sheet), Wilmington, Del.

Marshall Iron Co. (Smooth Finished Black Sheets & Iron or Soft Steel Sheets), Newport, Del.

Massillon Rolling Mill Co. (Bessemer & Open Hearth Steel Sheets, Black & Galvanized), Massillon, O.

**MERCHANT & EVANS CO. (Inc.)** 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

National Rolling Mills Co. (Black & Galvanized Open Hearth Steel & Iron Sheets; also Polished & Blue Steel for Stove Mfrs., Di-Oxidized & Electrical Sheets, One Pass, Cold Rolled, Box Annealed Sheets, Furniture & Automobile Body Sheets), Mansfield, O.

Newport Rolling Mill Co. ("Genuine Open Hearth", Iron, Black & Galvanized, Rust Resisting Iron & Sheets), Newport, Ky.

Parkersburg Iron & Steel Co. (Fine Black Iron & Steel Sheets), Parkersburg, W. Va.

Phillips Sheet & Tin Plate Co. (Steel Sheets for Stamped Ware Stove Pipe & Enameling & Galvanizing Stock), Weirton, W. Va.

Portsmouth Steel Co. (Open Hearth Steel, Black Sheets Unannealed & Blue Annealed, 13 up to 17 Gauge, 54 in. wide), Portsmouth, O.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

**SCAIFE, WM. B. & SONS CO. (Gal**vanized), 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Seneca Iron & Steel Co. (Black & Galvanized Bessemer Open Hearth Sheet Steel, 16 to 30 gauge, up to 36 wide and up to 12 ft. in length), Buffalo, N. Y.

Sligo Iron & Steel Co. (Black Iron & Steel Sheets, from 9 to 18 Gauge), Connellsville, Pa.

Taylor, N. & G. Co. (Open Hearth Black & Galvanized Sheet Steel, Gauges 6 to 16 U. S. Standard), Mariners & Merchants bldg, Phila., Pa.

Thomas Steel Co. (Iron & Steel, Black & Galvanized), Niles, O.

Universal Rolling Mill Co. (Bessemer & Open Hearth Steel Shovel, Nail & Tack Plate), Bridgeville, Pa.

Ward-Dickey Steel Co. ("Dickey," Hammered Finished, Planished Sheet Steel, 18 to 28 Gauge), Indiana Harbor, Ind.

West Penn Steel Co. (All Grades of Basic Open Hearth Steel Sheets), Brackenridge, Pa.

Wheeling Steel & Iron Co. (Iron & Bessemer Steel, Black Sheets), Wheeling, W. Va.

Whitaker-Glessner Co. (Iron & Steel Sheets. Black & Galvanized), Wheeling, W. Va.

Wilkes Rolling Mills Co. (Black Iron & Steel Gauges 16 to 28, Width 24" to 31", Lengths 30" to 120", Iron Gauges 16 to 24, 24" to 30", Lengths 60" to 101"), Sharon, Pa.

Wood, Alan Iron & Steel Co. (Refined Iron & Basic Open Hearth Steel, Black & Galvanized), 1421 Chestnut, Phila., Pa.

Wood, J. & Bros. Co. (Inc.) (Sheet & Corrugated Iron & Blue Annealed Sheets), Conshohocken, Pa.

Wyoming Shovel Works (Crucible & Open Hearth Steel Sheets & Light Plates), Wyoming, Pa.

Youngstown Iron & Steel Co. (Sheet Iron & Steel, Black & Galvanized), Youngstown, O.

Youngstown Sheet & Tube Co. (Common & Double Refined Iron Sheets, Black & Galvanized Steel Sheets, Roofing, etc.), Youngstown, O.

Zug Iron & Steel Co. ("Sable" Brand Iron & Steel Sheets for Corrugating, Galvanizing, Stamping, Expanded Metal, etc.), Pittsburg, Pa.

## 5115—Iron & Steel Sheet (Electrical)

(See also Iron & Steel Sheet, Black & Galvanized)

**ALLEGHENY STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

American Rolling Mill Co. ("Muskingum," Open Hearth Steel Sheets, Special Electrical Analysis), Middletown, O.

American Sheet & Tin Plate Co. (Soft Steel Sheets, Doubled Annealed & Cold Rolled & Annealed Finishes), Pittsburg, Pa.

De Forest Sheet & Tin Plate Co. (Open Hearth Steel), Niles, O.

Empire Iron & Steel Co. (Open Hearth, Blue nnealed), Niles, O.

Follansbee Bros. Co., Pittsburg, Pa.

**GOFF, HORNER & CO., Ltd. (Basic** & Acid O. H. Steel Sheets. Special Electrical Analysis). Offices: Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)

Marshall Iron Co., Newport, Del.

National Rolling Mills Co., Mansfield, O.

Refined Iron & Steel Co., Pittsburg, Pa.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Ward-Dickey Steel Co. (Planished Steel), Indiana Harbor, Ind.

West Penn Steel Co., Brackenridge, Pa.

Wood, Alan Iron & Steel Co. (Iron & Basic Open Hearth Steel, Black & Galvanized), 1421 Chestnut, Phila., Pa.

Wood, J. & Bros. Co. (Inc.) (Blue Annealed), Conshohocken, Pa.

Zug Iron & Steel Co. (Iron & Steel), Pittsburg, Pa.

## Iron & Steel Sheet (Galvanized)

(See Iron & Steel Sheet, Black & Galvanized)

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## 5116— Iron & Steel Skelp

(This List contains only those Firms who Manufacture Skelp for Sale)

**ALLEGHENY STEEL CO.** (Open Hearth Steel), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**BROOKE, E. & G. IRON CO.** (Iron Skelp), Birdsboro, Pa.

Carnegie Steel Co. (Steel), Pittsburg, Pa.

Coatesville Rolling Mill Co. (Boiler Tube Skelp), Coatesville, Pa.

Dover Forge & Iron Co. (Charcoal Iron Skelp), Canal Dover, O.

Harrisburg Pipe & Pine Bending Co. (Iron Boiler Tube Skelp), Harrisburg, Pa.

Harrisburg Rolling Mill Co. (Skelp Iron), Harrisburg, Pa.

LaBelle Iron Works (Steel Only), Steubenville, O.

Logan Iron & Steel Co. (Socket Iron, etc.), Burnham, Pa.

Longmead Iron Co. (Grooved Skelp Iron), Conshohocken, Pa.

Moorhead Bros. & Co. (Inc.) (Skelp Iron & Steel), Sharpsburg, Pa.

Parkesburg Iron Co. (Charcoal Boiler Tube Iron Skelp), Parkesburg, Pa.

Potts Bros. Iron Co. (Iron), Pottstown, Pa.

Republic Iron & Steel Co., Pittsburg, Pa.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Spang, Chalfant & Co. (Pipe Iron), Pittsburg, Pa.

Susquehanna Iron Co. (Skelp Iron), Columbia, Pa.

United Steel Co. (Open Hearth Steel), Canton, Ohio

Vulcan Charcoal Iron & Steel Co. (Skelp Iron for Boiler Tubes), Crum Lynne, Pa.

Western Steel Corporation, Seattle, Wash.

Wheeling Steel & Iron Co. (Grooved Skelp Iron & Steel, etc.), Wheeling, W. Va.

Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.

**Wood, J. & Bros. Co.** (Flue Iron), Conshohocken, Pa.

Youngstown Sheet & Tube Co. (Iron & Bessemer Steel Skelp), Youngstown, O.

## 5117—Iron & Steel (Swedish)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Brown-Wales Co. (Norway Iron), Boston, Mass.

Dana & Co., 32 B'way, New York

Dodge, Haley & Co., Boston, Mass.

Harvey, Arthur C. Co. (Iron), Boston, Mass.

Illingworth, John Steel Co., Frankford, Phila., Pa.

International High Speed Co. ("Bulldog", Brand Charcoal Drill Steel Hollow & Solid), Franklin sq, New York

Milne, A. & Co. (Norway Iron & Steel), 30 Church, New York, & 8 Oliver, Boston, Mass.

Nash, Geo. & Co. (Non-Magnetic Hot & Cold Rolled Norway Iron & Acme Resistance & Bending Wire for Electrical Purposes, Steel Importers, "Seebohm & Deeckstahl's" Self-Hardening & Tool Steel), 217 Pearl, New

Pierson & Co., 29 B'way, New York York

Potts, Horace T. & Co. (Of all Kinds), 316 N 3d, Phila., Pa.

Swedish Iron & Steel Corporation ("Sisco", Brand Drill Steel, Iron & Steel Chain, Charcoal Bar Iron, etc.), 12 Platt, New York

Wheelock, Lovejoy & Co., 23 Cliff, New York, & 35 Oliver, Boston, Mass.

White Steel Co., 98 Jackson boul, Chicago, Ill.

Wood, Alan Iron & Steel Co. (Iron Only), 1421 Chestnut, Phila., Pa.

## 5118— Irons (Beck)

Bradley's G. W. Sons, Westport, Conn.

Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.

## Irons (Branding)

(See Burning Brands)

## 5119— Irons (Burling)

Bullock Mfg. Associates, Springfield, Mass.

Stortz, John & Son, 210 Vine, Phila., Pa.

## 5120— Irons (Cable)

Nagel, W. G. Electric Co., Toledo, O.

## 5121— Irons (Calking)

Anderson, W. H. Tool & Supply Co., Detroit, Mich.

Braunsdorf-Mueller Co., Elizabeth, N. J.

**BUFFUM TOOL CO. (Boilermakers',** Plumbers', Fire Hydrant, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)

Drew, C. & Co., Kingston, Mass.

Hiles, C. A. & Co., 14th & Western av, Chi-

Kraeuter & Co., Newark, N. J. cago, Ill.

Mack & Co., Rochester, N. Y.

Mueller, H. Mfg. Co., Decatur, Ill.

Stortz, Jno. & Son (Plumbers'), 210 Vine, Phila., Pa.

White, L. & I. J. Co., Buffalo, N. Y.

Wilcox, Crittenden & Co., Middletown, Conn.

## 5122— Irons (Car Ladder)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.

## 5123— Irons (Chair)

Globe Foundry & Machine Co., Sheboygan, Wis

Jenkins Machine Co., Sheboygan, Wis.

## 5124— Irons (Clamp)

Stearns, E. C. & Co. (Also Door Frame Iron), Syracuse, N. Y.

## 5125— Irons (Coopers')

White, L. & I. J. Co., Buffalo, N. Y.

## 5126—Irons (Corner & Brace)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)

American Shovel & Stamping Co., Lorain, O.

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Hazel Atlas Glass Co., Wheeling, W. Va.

McKinney Mfg. Co., Pittsburg, Pa.

National Mfg. Co. (Wrought Steel), Sterling, Ill.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Pratt & Letchworth Co., Buffalo, N. Y.

**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

Russell & Erwin Mfg. Co., New Britain, Conn.

Sargent & Co., New Haven, Conn.

**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)

## 5127— Irons (Curling)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Del Sales Co. ("Del" Electric), Monadnock blk, Chicago, Ill.

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

Rolfe Electric Co. (Electric), Rochester, N. Y.

Vulcan Elec. Heating Co. ("Vulcan", Self-Heating Electric), Buffalo, N. Y.

## 5128— Irons (Dog)

American Foundry & Mfg. Co., St. Louis, Mo.

American Iron & Steel Mfg. Co., Lebanon, Pa.

Blacklock Foundry Co., S. Pittsburg, Tenn.

Chattanooga Implement & Mfg. Co., Chattanooga, Tenn.

Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.

Cumberland Fdry & Mfg. Co., Nashville, Tenn.

Harriman Mfg. Co., Harriman, Tenn.

Phillips & Buttorff Mfg. Co., Nashville, Tenn.

Smith, Thos. & Co., Worcester, Mass.

Southern Plow Co., Columbus, Ga.

## 5129—Irons (Extension Brace)

Brewer Bros. (Wrought), 614 Filbert, Philadelphia, Pa.

## 5130— Irons (Golf)

Page-Storms Drop Forge Co., Chicopee, Mass.

## 5131— Irons (Grab)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.

## 5132— Irons (Grappling)

Wilcox, Crittenden & Co., Middletown, Conn.

## 5133—Irons (Hair Pinching)

Osborne, C. S. & Co., Harrison, N. J.

## 5134a—Irons (Lead Pipe Bending)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 5135— Irons (Pinking)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Kraeuter & Co., Newark, N. J.

Lowentraut, P. Mfg. Co., Newark, N. J.

Osborne, C. S. & Co., Harrison, N. J.

Russell & Erwin Mfg. Co., New Britain, Conn.

## 5136— Irons (Plane)

Buck Bros., Millbury, Mass.

Buck, Chas. Edge Tool Co., Millbury, Mass.

Chapin-Stephens Co., Pine Meadow, Conn.

Ohio Tool Co., Columbus, O.

Mack & Co., Rochester, N. Y.

Russell & Erwin Mfg. Co., New Britain, Conn.

Sandusky Tool Co., Sandusky, O.

Sargent & Co., New Haven, Conn.

Stanley Rule & Level Co., New Britain, Conn.

Union Mfg. Co., New Britain, Conn.

White, L. & I. J. Co., Buffalo, N. Y.

## Irons (Polishing)

(See Sad Irons)

## 5137—Irons (Porch Post)

American Foundry & Mfg. Co., St. Louis, Mo.

Hardware & Woodenware Mfg. Co., 693 B'way, New York

Kramer Bros. Foundry Co., Dayton, O.

National Supply Co., Baltimore, Md.

Penn Hardware Co., Reading, Pa.

Reading Hardware Co., Reading, Pa.

Sargent & Co., New Haven, Conn.

Susquehanna Castings Co., Wrightsville, Pa.

Swett, A. L. Iron Works, Medina, N. Y.

Williams, A. C. Co., Ravenna, O.

Wrightsville Hardware Co., Wrightsville, Pa.

## 5138— Irons (Sash Cord)

Peck, Stow & Wilcox Co., Southington, Conn.

Penn Hardware Co., Reading, Pa.

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn.

Sargent & Co., New Haven, Conn.

Stanley Rule & Level Co., New Britain, Conn.

Union Mfg. Co., New Britain, Conn.

## 5139— Irons (Tuyere)

American Foundry & Mfg. Co., St. Louis, Mo.

Barber Mfg. Co., Ashtabula, Ohio

Boynton & Plummer, Worcester, Mass.

Canedy-Otto Mfg. Co., Chicago Heights, Ill.

Champion Blower & Forge Co. ("Whirlwind", Blast Anti-Clinker), Lancaster, Pa.

Comstock, Geo. S. (Fish's Patent Ball Tuyeres), Mechanicsburg, Pa.

Hardware & Woodenware Mfg. Co., 693 B'way, New York

Huntsville Foundry & Machine Works, Huntsville, Ala.

Illinois Iron & Bolt Co. ("Norton," "Warren," "Clark," "Duck Nest"), Carpentersville, Ill.

Roots, P. H. & F. M. Co., Connersville, Ind.

South Bend Foundry Co., South Bend, Ind.

Southern Skein & Foundry Co., Chattanooga, Tenn.

Swett, A. L. Iron Works, Medina, N. Y.

Thompson's Extension Tuyere Iron Co. ("Thompson's", Extension), Indianapolis, Ind.

Wagner Mfg. Co., Sidney, O.

Walter Tuyere Co., Hastings, Minn.

Weyburn Sales Co. ("Rockford Ideal"), Rockford, Ill.

## 5140— Irons (Waffle)

Crane, Wm. M. Co. ("Vulcan" Gas), 16 W 32d, New York

Crescent Stove Works, Evansville, Ind.

**CUTLER-HAMMER MFG. CO.** (Electric), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Ely, Thos. J. Mfg. Co. ("Dandy" for Gas Stoves), Girard, Pa.

Erie City Mfg. Co. ("Arrow"), Erie, Pa.

Griswold Mfg. Co. ("American"), Erie, Pa.

Reading Hardware Co., Reading, Pa.

Stover Mfg. Co., Freeport, Ill.

Stuart & Peterson Co., Burlington, N. J.

Wrightsville Hardware Co., Wrightsville, Pa.

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## 5141—Irons (Wagon Dump)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 5142— Irons (Wall)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Boston Bolt & Iron Co., Boston, Mass.
Metropolitan Bolt Co., Boston, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.

## 5142a—Irrigating Sprinklers

**DEMING CO., Salem, O., & 223 N Jefferson,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 5143— Isinglass

American Glue Co. ("Cape Ann"), Boston, Mass.
Armour Ammonia Works ("Armour's"), 3130 Benson, Chicago, Ill.
Dodd, A. W. & Co., Gloucester, Mass.
Gloucester Isinglass & Glue Co., Gloucester, Mass.
Haskins, Leander M. (For Brewers, etc.), 10 Long Wharf, Boston Mass.
Howe & French Isinglass Co. ("Ripley"), 89 State, Boston, Mass.
Rockport Isinglass Co., Rockport, Mass.
Tarr's Isinglass Co., Gloucester, Mass.

## 5144— Ivory Black

Binney & Smith Co., 81 Fulton, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Seaver & Co., 120 Milk, Boston, Mass.

## 5145— Jack-Straps

Dicke Tool Co. ("Howe"), Downers Grove, Ill.
Klein, Mathias & Sons ("Cable"), 562 W Van Buren, Chicago, Ill.

## 5146—Jackets (Copper, for Copper Smelters)

Keystone Bronze Co., Pittsburg, Pa.

## 5146a—Jackets (Copper Tap)

**LAWRENCEVILLE BRONZE CO.** (For Large Smelting Furnaces), 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)

## 5147— Jackets (Smelting)

Traylor Engineering Co. (B. W. Traylor, Lessee), Allentown, Pa.

## 5147a—Jackets (Water, for Smelting Plants)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## Jacks (Armature)

(See Lifts, Motor, Car Pit)

## 5148—Jacks (Automatic Lowering)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 5149— Jacks (Automobile)

(See also Jacks, Wagon; also Jacks, Various Kinds)

A. B. C. Jack Co. ("A. B. C."), 14 Columbus av, Boston, Mass.
Batavia Clamp Co. ("Colt's-U-Bar"), Batavia, N. Y.
Buckeye Jack Mfg. Co. ("Buckeye"), Alliance, O.
**CANTON FOUNDRY & MACHINE CO.** ("Universal" Portable on Casters), Canton, O. (See adv. index, end of book)
Cook's Standard Tool Co. ("Standard"), Kalamazoo, Mich.
Covert Mfg. Co. ("Covert's Victor"), Troy, N. Y.
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Elite Mfg. Co. ("Reliable", "Ideal", "Ashland"), Ashland, O.
**Eureka Mower Co. ("Eureka No. 3"), Utica, N. Y.**
**Excelsior Supply Co. ("U. S.," "Peerless"), 235 Randolph, Chicago, Ill.**
**Globe Jack Co. ("Globe"), 827 N 4th, Philadelphia, Pa**
Jersey Brake Co. ("Searl's" Folding), 56 Columbia, Newark, N. J.
Joyce-Cridland Co., Dayton, O.
Lane Bros. Co. ("Lane's"), Poughkeepsie, N. Y.
Leather & Brass Mfg. Co. (Pneumatic), Auburn, N. Y.
**Oliver Mfg. Co. ("E-Z", "Peerless", "New Samson"),** 326 S Desplaines, Chicago, Ill.
Pratt, Wm. E. Mfg. Co. ("Chicago"), 91 Lake.
Robson Mfg. Co., Galesburg, Ill. Chicago, Ill.
**Shawver Co. ("Springfield"), Springfield, O.**
Ultra Pump & Power Co., Auburn, N. Y.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 5150— Jacks (Ballast)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5151— Jacks (Bridge)

Buckeye Jack Mfg. Co., Alliance, O.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5152— Jacks (Cable Reel)

**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Kelly, L. J. Mfg. Co. ("Samson"), Albany, N. Y.

## 5153— Jacks (Car)

Brill, J. G. Co. ("Hercules"), 62nd & Woodland av, Phila., Pa.
Buckeye Jack Mfg. Co., Alliance, O.
Buda Co., Railway Exch bldg, Chicago, Ill.
Chapman Jack Co. ("Chapman"), Cleveland, O.
Cook's Standard Tool Co. ("Standard," Trip & Automatic Lowering), Kalamazoo, Mich.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Joyce-Cridland Co., Dayton, Ohio
Lovejoy Tool Works ("Car Inspection"), 335 W Ohio, Chicago, Ill.
Maxon-Miller Jack Co. (Improved Maxon-Miller Lever), Huntington, W. Va
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Norton, A. O., 286 Congress, Boston, Mass.
Templeton, Kenly & Co. (Ltd.) ("Simplex"), 1335 Sloan, Chicago, Ill.

## 5153a— Jacks (Car Journal)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## Jacks (Car Pit)

(See Lifts, Motor, Car Pit)

## 5154—Jacks (Car Replacing)

Buckeye Jack Mfg. Co., Alliance, O.
Buda Co., Railway Exch bldg, Chicago, Ill.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Joyce-Cridland Co., 329 S Linden av, Dayton, O.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Lovejoy Tool Works ("Simplex"), 335 W Ohio, Chicago, Ill.
Norton, A. O. (Ball Bearing), 286 Congress, Boston, Mass.
Pearson Jack Co. ("Pearson"), Boston, Mass.

## Jacks (Carriage)

(See Jacks, Wagon)

## 5155— Jacks (Engine)

Elite Mfg. Co., Ashland, Ohio
Enterprise Iron Works ("Enterprise" Heavy Duty), Albert Lea, Minn.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
McMaster-Carr Co. ("Chicago," for Turning Engine off Centre), 174 Lake, Chicago, Ill.
Wisconsin Engine Co. ("Badger"), Corliss, Wis.

## 5156—Jacks (Gas Pumping)

Masseth Packer & Machine Works, Butler, Pa.
**MYERS, F. E. BRO., Ashland, O. (See** adv. index & branch offices, end of book)

## 5157— Jacks (Geared)

**DUFF MFG. CO. (Ratchet & Ratchet** Lever), N S, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Joyce-Cridland Co., Dayton, O.
Sparta Iron Works Co., Sparta, Wis.

## 5157a—Jacks (Geared Pumping)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)

## 5158— Jacks (Hatters')

Watson, L. S. Mfg. Co., Leicester, Mass.

## 5159—Jacks (Hoisting, Windmill Power)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5160—Jacks (House Moving)

American Skein & Foundry Co. ("A. S. & F. Co." Press Screws for House Raising), Racine, Wis.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buckeye Jack Mfg. Co., Alliance, O.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foote, J. B. Foundry Co., Frederickstown, Mo.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Illinois Iron & Bolt Co. (Press Screws for House Raising), Carpentersville, Ill.
Joyce-Cridland Co., Dayton, O.
Maxon-Miller Jack Co. (Improved "Maxon-Miller" Lever), Huntington, W. Va.
Norton, A. O., 286 Congress, Boston, Mass.
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)
Springfield Foundry Co., Springfield, Mass.
Swett, A. L. Iron Works, Medina, N. Y.

## 5161— Jacks (Hydraulic)

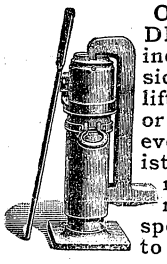
**ANDERSON FORGE & MACHINE CO.,** 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Dienelt & Elsenhardt ("Reliance"), 1308 N Howard, Phila., Pa.
**DUDGEON, RICHARD ("Universal"),** 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO. ("Duff-Bethlehem"),** N S, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

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**FAIRBANKS, MORSE & CO.**, 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Henderer's, A. L. Sons, Wilmington, Del.
Irving Mfg. & Tool Co. ("Tangye's," Imported, etc.), 169 Chambers, New York
Joyce-Cridland Co., Dayton, O.
Justice, Philip S. & Co. ("Reliance"), 421 Chestnut, Philadelphia, Pa
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Wallace Supply Co., 120 S Jefferson, Chicago, Ill.
**WATSON-STILLMAN CO., 38 Church**, New York. (See adv. index, end of book)


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## 5162—Jacks (Hydraulic, Concrete Testing)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

## 5163—Jacks (Hydraulic Universal)

**DUDGEON, RICHARD, 24 Columbia**, New York. (See adv. index, end of book
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 5163a— Jacks (Ladder)

**RICHARDS - WILCOX MFG. CO.** ("Economy" Jack & Scaffold Support), 3rd & Q. Aurora, Ill. (See adv. index & branch offices, end of book)
**TAYLOR, JAS. L. MFG. CO., Poughkeepsie**, N. Y. (See adv. index, end of book)

## 5164— Jacks (Lifting)

Automatic Jack Co., Bloomfield, Ind.
Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), Milwaukee, Wis.
Big Four Mfg. Co., Bloomfield, Ind.
Buckeye Jack Mfg. Co. ("Buckeye"), Alliance, O.
Buda Co., Railway Exch bldg, Chicago, Ill.
De Weese, F. M. ("Mosher"), Chillicothe, O.
**DUDGEON, RICHARD (Hydraulic)**, 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Elite Mfg. Co. ("Reliable", "Ideal"), Ashland, Ohio
Eureka Mower Co., Utica, N. Y.
**FAIRBANKS, MORSE & CO.**, 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hagerstown Foundry Co., Hagerstown, Md.
Hanna Engineering Works ("Jackson"), 2059 Elston, Chicago, Ill.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Henderer's, A. L. Sons, Wilmington, Del.
Hess-Snyder Co., Massillon, O.
Hine-Watt Mfg. Co. ("Columbia"), 47 Randolph, Chicago, Ill.
Irving Mfg. & Tool Co., 169 Chambers, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Joyce-Cridland Co. (Gear Levered), Dayton, O.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Klemm, E. R., 616 W Monroe, Chicago, Ill.
Locke Regulator Co., Salem, Mass.
Maxon-Miller Jack Co. (Improved "Maxon-Miller" Lever), Huntington, W. Va.
Newell, J. F. & Co., Gardiner, Me.
New London Vise Works, New London, Conn.
New Winona Mfg. Co. ("Hay King"), Winona, Minn.
Norton, A. O. (Ball Bearing Screw), 288 Congress, Boston, Mass.
Oliver Mfg. Co. ("Peerless," "Samson," "Oliver," "Weiler" & "Klemm," "E. Z") 326 S Desplaines, Chicago, Ill.
Pearson Jack Co. ("Pearson"), Boston, Mass.
Peerless Lifting Jack Co., Anderson, Ind.
Pratt, Wm. E. Mfg. Co. ("Acme"), 91 Lake, Chicago, Ill.
**ROCK ISLAND MFG. CO., Rock Island**, Ill. (See adv. index & branch offices, end of book)
Royal Machine Co., Newark, N. J.
Schwartz, Chas. E., Chillicothe, O.
Shaw Engineering & Mfg. Co. (Adjustible), Newark, N. J.
Shawver Co. ("Springfield"), Springfield, Mass.
Sheffer, B. F., Glen Rock, Pa.
Star Jack Co., Bloomfield, Ind.
Topping Bros. ("Burrows," Ball Bearing), 122 Chambers, New York
Union Jack Co., Bloomfield, Ind.
U. S. Jack Co. ("U. S."), 644 W Lake, Chicago, Ill.
Ultra Pump & Power Co. ("Ultra" Pneumatic), Auburn, N. Y.
Victor Jack Co., Bloomfield, Ind.
Wray Pump & Register Co. (Inc.) ("Wray Log" Pneumatic), Rochester, N. Y.

## 5165— Jacks (Locomotive)

American Skein & Foundry Co. ("A. S. & F. Co." Locomotive Jack Screws), Racine, Wis.
Buckeye Jack Mfg. Co., Alliance, O.
Buda Co., Railway Exchange bldg, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**DUDGEON, RICHARD (Hydraulic)**, 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Illionis Iron & Bolt Co. ("I. I. & B. Co." Locomotive Jack Screws), Carpentersville, Ill.
Joyce-Cridland Co., 329 S Lindeman av, Dayton, O.
Justice, Philip S. & Co., Phila., Pa.
Maxon-Miller Jack Co. ("Maxon-Miller" Lever), Huntington, W. Va.
**WATSON-STILLMAN CO., 38 Church**, New York. (See adv. index, end of book)

## 5165a—Jacks (Locomotive Pit)

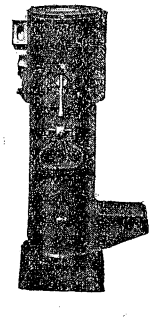
Q. M. S. Co., Plainfield, N. J.

## 5166— Jacks (Log)

**ALLIS-CHALMERS CO., Milwaukee**, Wis. (See adv. index & branch offices, end of book)
Buckeye Jack Mfg. Co., Alliance, O.
Burnett Foundry & Machine Works (Ltd.), Petoskey, Mich.
Curtis & Co., Mfg. Co., St. Louis, Mo.
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Garratt, W. T. & Co., San Francisco, Cal.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Joyce-Cridland Co., Dayton, O.
Lane Mfg. Co., Montpelier, Vt.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Maxon-Miller Jack Co. ("Maxon" Lever), Huntington, W. Va.
Moltz, Jacob J., Williamsport, Pa.
Murray, D. J. Mfg. Co. (Iron Frame, etc.), Wausau, Wis.
Phoenix Mfg. Co., Eau Claire, Wis.
Southern Engine & Boiler Works, Jackson, Tenn.

## 5167— Jacks (Oil Well)

**DUDGEON, RICHARD (Hydraulic)**, 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Jones, S. M. Co., Toledo, O.

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"Genuine Barrett" Journal Jack

"Duff" Ball Bearing Geared Ratchet Screw Jack

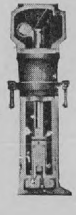


# Jacks

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"Duff-Bethlehem" Forged Steel Hydraulic Jack



"Genuine Barrett" Automatic Lowering Jack

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## 5168—Jacks (Pipe Forcing)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## Jacks (Pneumatic Pit)

(See Lifts, Motor, Car Pit)

## 5169— Jacks (Polishing)

**NEW BRITAIN MACHINE CO.** ("Whitney"), New Britain, Conn. (See adv. index, end of book)

## 5170— Jacks (Pulling)

**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Pearson Jack Co. ("Pearson" Ratchet), Boston, Mass.

## 5171— Jacks (Pumping)

**AMERICAN WELL WKS. (Geared),** Aurora, Ill. (See adv. index & branch offices, end of book)

Appleton Mfg. Co., Batavia, Ill.
Baker Mfg. Co., Evansville, Wis.
Buckeye Engine & Foundry Co., Joliet, Ill.
Charter Gas Engine Co. ("Sterling"), Sterling, Ill.

**FAIRBANKS, MORSE & CO. ("Handy"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Field-Brundage Co., Jackson, Mich.
Independent Harvester Co. (Bevel Geared), Plano, Ill.

**INTERNATIONAL HARVESTER CO.** of America, 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)

Marseilles Mfg. Co., East Moline, Ill.

**MYERS, F. E. BRO., Ashland, O. (See** adv. index & branch offices, end of book)

Peerless Cream Separator Co., Waterloo, Ia.
Moline, Ill.
Perkins Wind Mill Co., Mishawaka, Ind.
Reliable Machine Co., Anderson, Ind.
Rockford Engine Works ("Rockford"), Rockford, Ill.
Root & Vanderyoort Engineering Co., East Moline, Ill.
Trahern Pump Co. ("Trahern"), Rockford, Ill.

## Jacks (Railroad)

(See Jacks, Car; also Jacks, Track)

## 5172— Jacks (Ratchet)

American Skein & Foundry Co. (Bell Base & Tripod Ratchet Jack Screws), Racine, Wis.
Buckeye Jack Mfg. Co., Alliance, O.
Buda Co., Railway Exch bldg, Chicago, Ill.

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Illinois Iron & Bolt Co. (Ratchet Jack Screws), Carpentersville, Ill.
Joyce-Cridland Co., Dayton, Ohio
Justice, Philip S. & Co. (Ball Bearing Screw), 421 Chestnut, Phila., Pa.
Kalamazoo Railway Supply Co. (Also Friction), Kalamazoo, Mich.
Lovejoy Tool Works (Cone-Bearing for Car Inspectors), 335 W Ohio, Chicago, Ill.
Munnsville Plow Co. (Ratchet Jack Screws), Munnsville, N. Y.
Norton, A. O. (Ball Bearing Screw), 286 Congress, Boston, Mass.
Pearson Jack Co. ("Pearson" Ratchet Journal), Boston, Mass.

**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)

## 5173— Jacks (Robie)

Riehle Bros. Testing Machine Co., 1424 N 9th. Phila., Pa.

## 5174— Jacks (Screw)

(See also Screws, Jack)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Brill, J. G. Co. 62th & Woodland av, Phila., Pa
**BROWN BROS. MFG. CO. (House** Movers'), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buckeye, Jack Mfg. Co., Louisville, Ky.
Chapman Jack Co. ("Chapman"), Cleveland, O.
Dayton Malleable Iron Co., Dayton, O.

**DUFF MFG. CO. (Ball Bearing), N S,** Pittsburg, Pa. (See adv. index & branch offices, end of book)

Eureka Mower Co., Utica, N. Y.

**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Foltz, H. C., Hagerstown, Md.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Illinois Iron & Bolt Co. ("I. I. & B. Co." Tee Top, Car Box, Bell Base Ratchet, Tripod Ratchet, Ratchet Carrying, Track & Wagon Jack Screws), Carpentersville, Ill.
Irving Mfg. & Tool Co., 169 Chambers, New York
Joyce-Cridland Co., 329 S Lindeman av, Dayton, O.
Justice, Philip S. & Co. (Ball Bearing), 421 Chestnut, Phila., Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Lovejoy Tool Works ("Ball's Telescopic & Cone-Bearing Ratchet Screw"), 335 W Ohio, Chicago, Ill.
McMaster-Carr Supply Co. ("Chicago" Engine Jack), 176 Lake, Chicago, Ill.

**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)

Millers Falls Co., 28 Warren, New York
Morden Frog & Crossing Co. ("Union"), Commercial Bank bldg., Chicago, Ill.
Munnsville Plow Co. (Ratchet Jack Screws), Munnsville, N. Y.
Newell, J. F. & Co. ("Sampson"), Gardiner, Me.
New London Vise Works ("Peerless" Bell Bottom), New London, Conn.
Norton, A. O. (Ball Bearing Ratchet), 280 Congress, Boston, Mass.
Oliver Mfg. Co. ('E-Z"), 326 S Desplaines, Chicago, Ill.
Pearson Jack Co. ("Pearson"), Boston, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Riehle Bros. Testing Machine Co. ("Riehle Robie" Ball Bearing), 1424 N 9th, Phila., Pa.

**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)

**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 5175—Jacks (Sewer or Trench)

Bottomley Machine Co. ("B. & F."), Alliance, O.

## 5176— Jacks (Stone)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis
Brunner & Lay, 570 W Polk, Chicago, Ill.
Buckeye Jack Mfg. Co., Alliance, O.

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Harvey, H. H., 608 Atlantic av, Boston, Mass.
Irving Mfg. & Tool Co., 169 Chambers, New York
Joyce-Cridland Co., Dayton, O.
Kelly, L. J. Mfg. Co. ("Kelly's Albany"), Albany, N. Y.
Klemm, E. R., 616 W Monroe, Chicago, Ill.
Lincoln Iron Works (Geared Lifting), Rutland, Vt.
Maynard, C. I. & Co., Fairhaven, Vt.
O'Leary, Arthur J. & Son Co., 644 W Lake, Chicago, Ill.
Oliver Mfg. Co., 326 S Desplaines, Chicago, Ill.
Riehle Bros. Testing Machine, 1424 N 9th, Phila., Pa.

**UNION ELEVATOR & MACHINE CO.** ("Union"), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 5177—Jacks (Tie Spacing & Straightening)

Belle City Malleable Iron Co. ("Murray" Malleable Iron), Racine, Wis.

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 5178— Jacks (Track)

American Skein & Foundry Co. (Locomotive, Car Box & Ratchet Jack Screws), Racine, Wis.
Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Buckeye Jack Mfg. Co. ("Buckeye," Compound Lever) Alliance, O.
Buda Co., Railway Exch bldg, Chicago, Ill.
Chapman Jack Co. ("Chapman"), Cleveland, O.
Cleveland City Forge & Iron Co. ("Chapman"), Cleveland, Ohio
Cook's Standard Tool Co. ("Standard" Trip & Automatic Lowering), Kalamazoo, Mich.
De Werse, F. M. & Co. ("Mosher"), Chillicothe, Ohio

**DUFF MFG. CO. ("Barrett"), N S,** Pittsburg, Pa. (See adv. index & branch offices, end of book)

**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Henderer's, A. L. Sons, Wilmington, Del.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Joyce-Cridland Co. ("Jenne" Pattern), Dayton, Ohio
Justice, Philip S. & Co. (Sure Drop), 421 Chestnut, Phila., Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kelly, L. J. Mfg. Co. ("Samson"), Albany, N. Y.
Lovejoy Tool Works ("Simplex"), 335 W Ohio, Chicago, Ill.
Maxon-Miller Jack Co. ("Maxon-Miller" Lever)-Huntington, W. Va.
Morden Frog & Crossing Works ("Union"), 115 Adams, Chicago, Ill.
Norton, A. O. (Sure Drop), Boston, Mass.
Pearson Jack Co., Boston, Mass.
Pettibone, Mulliken & Co. ("Jenne"), 204 Dearborn, Chicago, Ill.
Spitzli Mfg. Co. ("Empire State"), Utica, N Y.
Swett, A. L. Iron Works, Medina, N. Y.
Topping Bros. ("Burrows," Ball Bearing), 122 Chambers, New York

**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

Verona Tool Works, Pittsburg, Pa., & Verona, Pa.

**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)

## 5179— Jacks (Traveling)

**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

Joyce-Cridland Co., Dayton, O.
Norton, A. O., 286 Congress, Boston, Mass.

## 5180— Jacks (Universal)

**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 5181— Jacks (Wagon)

(See also Jacks, Automobile)

American Skein & Foundry Co. ("A. S. & F. Co." Jack Screws), Racine, Wis.
Ames Plow Co., Boston, Mass.
Barber Mfg. Co., Ashtabula, O.
Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Batavia Clamp Co. ("Colt's" U-Bar), Batavia, N. Y.
Boston & Lockport Block Co. ("Lockport"), Boston, Mass.
Buch's, A. Sons Co., Elizabethtown, Pa.
Buckeye Mfg. Co., Anderson, Ind.

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

Chicago Steel Foundry Co., 217 Lasalle, Chicago, Ill.
Covert Mfg. Co. ("Covert's Victor"), Troy, N. Y.
Covert's Saddlery Works, Interlacken, N. Y.
Cutaway Harrow Co., Higganum, Conn.
De Weese, F. M. & Co., Chillicothe, O.

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

Elite Mfg. Co., Ashland, O.
Eureka Mower Co. (Steel & Malleable Iron), Utica, N. Y.

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Fernald Mfg. Co. ("Miller," "Victor"), North Furman, Lemuel, Bay City, Mich. East, Pa.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Illinois Iron & Bolt Co. (Jack Screws), Carpentersville, Ill.
Irving Mfg. & Tool Co., 169 Chambers, New York
Jersey Brake Co. ("Searl's" Automobile & Carriage), Newark, N. J.
Joy, A. P. ("New Idea"), Rockingham, N. H.
Joyce-Cridland Co., 329 S Linden av, Dayton, O.
Kelly, L. J. Mfg. Co. ("Samson"), Albany, N. Y.
Klemm, E. R., 616 W Monroe, Chicago, Ill.
Lane Bros. Co. (Steel), Poughkeepsie, N. Y.
Lansing Wheelbarrow Co. ("Miller," "Baltimore"), Lansing, Mich.
Lyon Iron Works, Greene, N. Y.
Metropolis Bending Co., Metropolis, Ill.
Millers Falls Co. ("Power's"), 28 Warren, New York
National Jack & Mfg. Co., 130 S Clinton, Chicago, Ill.
National Tubular Axle Co., Emigsville, Pa.
Oliver Mfg. Co. ("Peerless", "Samson", "Oliver" Practical), 326 S Desplaines, Chicago, Ill.
Peppler, Thos., Hightstown, N. J.
Pioneer Pole & Shaft Co. ("Winner"), Piqua, Ohio
Porter, J. E. Co. ("Porter's" Never-Slip), Ottawa, Ill.
Prairie States Mfg. Co. ("Prairie" Fence Stretcher & Jack Combined), Cedar Rapids, Ia.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
R. I. Malleable Iron Works, Hills Grove, R. I.
Reno Mfg. Co. ("Frey's"), Erie, Pa.
**RICHARDS - WILCOX MFG. CO.** ("Tiger", "Wilcox" & "Richards" Handy), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Silver Mfg. Co., Salem, O.
Stearns, E. C. & Co. ("Stearns" All Steel), Syracuse, N. Y.
Swett, A. L. Iron Works, Medina, N. Y.
Torrey Bros. Co. ("Eclipse," "Little Giant," "Champion"), Central Village, Conn.
Whitehurst, R. W. Co. ("Boss"), Norfolk, Va.
Woodruff, W. W. & Sons Co., Mt. Carmel, Conn.

## 5182– Jacks (Wrecking)

**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5183–Jail & Cell Work (Steel)

Adams Steel & Wire Works, Joliet, Ill.
Barnum, E. T. Wire & Iron Works (Steel Cells), 82 Washington av, Detroit, Mich.
Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CARPENTER, F. E. CO., 253 B'way,** New York. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Chattanooga Iron & Wire Works, Chattanooga, Tenn.
Covington Architectural Iron Works, Covington, Ky.
Crown Iron Works Co., Minneapolis, Minn.
Diebold Safe & Lock Co. (Steel Cells Only), Canton, O.
**HALL'S SAFE CO., Main Office &** Works, 3253 Spring Grove av, Cincinnati, Ohio. (See adv. index & branch offices, end of book)
Herring-Hall-Marvin Safe Co., Hamilton, O.
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Pauly Jail Building Co., St. Louis, Mo.
Phoenix Iron Works, Portland, Ore.
**REMPPIS, WM. F. CO., Reading,** Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Schwab Safe & Lock Co. (Jail Cages), Lafayette, Ind.
**SMITH, F. P. WIRE & IRON W'KS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Snead Arch'l Iron Works, Louisville, Ky.
Southern Structural Steel Co., San Antonio, Tex.
Southwest Wire Iron Works Co., Kansas City, Mo.
Stewart Iron Works Co., Cincinnati, O.
Turner & Brownlie (Steel Cages), Des Moines, Ia.
Vna Dorn Iron Works Co., Cleveland, O.
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)
Western Iron Works, San Francisco, Cal.
Whitehead & Kales Iron Works, Detroit, Mich.
York Safe & Lock Co., York, Pa.

## Japans

(See Varnish Manufacturers)

## 5184– Japans (Baking)

Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.
Akron Varnish Co., Akron, O.
Chesapeake Oil Co., Baltimore, Md.
Chicago Varnish Co., 2090 Elston av, Chicago, Ill.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Lucas, Jno. & Co., 322 Race, Phila., Pa.
Minett Varnish Co., 165 B'way, New York
Moller & Schumann, B'way & Marcy av, Brooklyn, N. Y.
Standard Varnish Works, 29 B'way, New York
Suydam, M. B. & Co., 61st & Butler, Pittsburg, Pa.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
Wilhelm, A. Co., Reading, Pa.
Woodhouse, Samuel F., Unity & Franklin, Phila., Pa.

## 5185– Jars (Acid)

Steiger Terra Cotta & Pottery Works, San Francisco, Cal.

## 5186–Jars (Battery, Glass)

Brookfield Glass Co., 2 Rector, New York
Cumberland Glass Mfg. Co., Bridgeton, N. J.
Gaynor Glass Works, Salem, N. J.
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Hemingray Glass Co., Covington, Ky.
Illinois Glass Co., St. Louis, Mo.
**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York. (See adv. index & branch offices, end of book)
**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)
Salem Glass Works, Salem, N. J.
United States Glass Co., Pittsburg, Pa.
Writall, Tatum Co., 410 Race, Phila., Pa.
Whitney Glass Works, 227 S Front, Phila., Pa.

## 5187–Jars (Battery, Rubber)

American Hard Rubber Co., 9 Mercer, New York
Consumers' Rubber Co. ("Euclid"), Cleveland, Ohio
Diamond Rubber Co., Akron, Ohio
Luzerne Rubber Co., Trenton, N. J.
Morgan & Wright (Inc.), Detroit, Mich.
Stokes, Jos. Rubber Co., Trenton, N. J.
Vulcanized Rubber Co., 488 B'way, New York

## 5188– Jars (Fruit)

Ball Bros. Glass Mfg. Co., Muncie, Ind.
Clyde Glass Works, Clyde, N. Y.
Elk Flint Bottle Co. ("Keystone"), Boston, Mass.
Flaccus, C. L. Glass Co., Empire bldg, Pittsburg, Pa.
Hazel Atlas Glass Co. (Glass), Wheeling, W. Va.
Hemingray Glass Co., Covington, Ky.
Hermetic Closure Co. (Vacuum & Preserve Jars), 2444 W 16th, Chicago, Ill.
Illinois Pacific Glass Co., San Francisco, Cal.
Mannington Glass Works Co. (Machine Made), Mannington, W. Va.
Model Glass Works, Summitville, Ind.
Penna. Glass Co., Anderson, Ind.
Quartz Glass & Mfg. Co., Los Angeles, Cal.
Root Glass Co., Terre Haute, Ind.
Victor Jar Co., Detroit, Mich.

## 5189– Jars (Milk)

Mannington Glass Works Co. (Machine Made), Mannington, W. Va.

## 5189a– Jets (Locomotive)

Ohio Injector Co. ("Ohio"), Wadsworth, O.

## 5189a– Jig Clamps

**ST. LOUIS SALES CO., 1224 Chemical** bldg, St. Louis, Mo. (See adv. index, end of book)

## 5190–Jig Mills (Ship Yard)

**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)

## 5191– Jigs (Coal & Ore)

American Concentrator Co. (For Anthracite & Bituminus), Joplin, Mo.
Denver Engineering Works ("Richards" Pulsator), Denver, Col.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
McFarlane Mfg. Co., Denver, Colo.
McLanahan-Stone Machine Co. ("McLanahan"), Holidaysburg, Pa.
Pittsburg Coal Washer Co., Pittsburg, Pa.
Stroh, W. H. (Est. of), Mauch Chunk, Pa.
Tamaqua Mfg. Co. ("Christ" Patent), Tamaqua, Pa.
Wallace, Samuel, White Haven, Pa.

## 5192–Jigs (For Concentrating Mills)

**ALLIS-CHALMERS CO. ("Hancock"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Concentrator Co. ("New Century," Differential, Fast & Eccentric Motion, Tailings, Coal Washing & Iron Ore Washing), Hallidie Co., Spokane, Wash. Joplin, Mo.
Mine & Smelter Supply Co., 42 B'way, New York
National Ore Concentration Co., 1st Nat'l B'k bldg, Chicago, Ill.
Pittsburg Coal Washer Co., Pittsburg, Pa.
Portage Lake Foundry & Machinery Co., Hancock, Mich.
**POWER & MINING MACHINERY CO.** ("Colton-Hartz"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 5192a–Jigs & Fixtures (Drilling & Milling)

**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)

## Jim-Crows

(See Benders, Rail)

## 5192b– Joint Couplings

**BOSTON GEAR WORKS, Norfolk** Downs, Mass. (See adv. index, end of book)

## 5193– Jointers (Coopers')

White, L. & I. J. Co., Buffalo, N. Y.

## 5194– Jointers (Masons')

Braunsdorf-Mueller Co., Elizabeth, N. J.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.

## 5195– Jointers (Pipe)

Lord, L. L. Co. ("Lord" Asbestos Lead Pipe Joint Reamer), Meadville, Pa.
Mueller, H. Mfg. Co. (For Cast Iron Pipe), Decatur, Ill.
Water Works Equipment Co. ("Star"), 50 Church, New York
Watkins, Thomas ("Watkins"), Johnstown, Pa.

## 5196–Jointers (Saw Tooth)

Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Mixter, J. W. Saw Tool Co. (Or Side File), Plymouth, Mass.
Stearns, E. C. & Co., Syracuse, N. Y.

## 5197– Jointers (Shingle)

American Sawmill Machinery Co. (Rotary), Hackettstown, N. J.
Lyon Iron Works, Greene, N. Y.

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## Jointers (Stave)

(See Stave Jointing Machines)

### 5198— Joints (Ball)

(See also Joints, Flexible; also Joints, Universal)

American District Steam Co., North Tonawanda, N. Y.
Best Mfg. Co. (Male & Female), Pittsburg, Pa.
Boston Gear Works (Solid Ball, Hub Steel & Brass Universal Joint Couplings), Norfolk, Downs, Mass.
Clow, Jas. B. & Sons (Flexible), 344 Franklin, Chicago, Ill.
Gray & Prior Machine Co., Hartford, Conn.
Peninsular Milled Screw Co., Detroit, Mich.
Poole Engineering & Machine Co., Baltimore.
Sanitary Co. ("Paragon"), Cleveland, O. Md.
Speakman Supply & Pipe Co., Wilmington, Del.
Walker Mfg. Co., Fenton, Mich.

### 5199—Joints (Brass Swing)

**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

### 5200— Joints (Cable)

Dossert & Co., 242 W 41st, New York
Fountain, Jno. Jr., 29 Murray, New York
Matthews, W. N. & Bro. ("Matthews", Splicing), St. Louis, Mo.
Yonkers Specialty Co. ("Metropolitan"), Yonkers, N. Y.

### 5201— Joints (Expansion)

Alberger Pump Co. ("Wainwright"), 140 Cedar, New York
American District Steam Co. (Iron Body, for Underground or Inside Work, North Tonawanda, N. Y.
American Metal Hose Co. ("Ametalhose"), Waterbury, Conn.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Belfield, H. & Co. (Iron & Brass), 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Bordo, L. J. Co. (Inc.) ("Bordo" Swing Joints), 12th & Thompson, Phila., Pa.
Bridgman Bros. Co. ("Bridgman" Brass & Iron), 1422 Washington, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
**CAMERON, A. S. STEAM PUMP** Works, 4 3 E 23d, New York. (See adv. index & branch offices, end of book)
Central Station Steam Co. (Packingless), Detroit, Mich.
Coffin Valve Co. (For Pipe Mains), Neponset, Boston, Mass.
Coldwell-Wilcox Co., Newburgh, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co. (Iron Body Brass Mounted, also Brass), Bridgeport, Conn.
Dame & Townsend Co. (Copper), Cliff & Fulton, New York
Davis, John Co., Chicago, Ill.
Draper Mfg. Co. ("Draper" Ball Union), Port Huron, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Edwardsville Brass Co., Edwardsville, Ill.
General Fire Extinguisher Co., Providence, R. I.
Harvey's, A. Sons Mfg. Co., Detroit, Mich.
Haydenville Co., Haydenville, Mass.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Co., Milwaukee, Wis.
Imperial Iron Works (Extra Heavy), Duluth, Minn.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Kaltenthaler, H. J. (Iron Body), 230 Cherry Phila., Pa
Kelly & Jones Co. ("Simplex", "K. & J."), Pittsburg, Pa.
King Machine Works, Reading, Pa.
Konold, M. J. Co. (Copper), Pittsburg, Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LUNKENHEIMER CO., General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McCarthy, Felix, Pottstown, Pa.
McNab & Harlin Mfg. Co., 56 John, New York
National Tube Co. (Brass & Iron), Pittsburg, Pa
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pearce, W. H. & Co. ("Crescent"), 269 Dearborn, Chicago, Ill
**PITTSBURGH VALVE, FOUNDRY & Construction Co.** (Balanced & Unbalanced), 26th & A V Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Powell, Wm. Co., Cincinnati, O.
Power Specialty Co. ("Harter"), 111 B'way, New York
Queen City Brass & Iron Works (Brass, etc.) Cincinnati, O
Thompson, J. & Co., Van Horn & Sophia Phila., Pa.
Underwood, H. B. & Co., 1025 Hamilton Phila., Pa
Walworth Mfg. Co., 132 Federal, Boston, Mass
Williams, D. T. Valve Co., Cincinnati, O.

### 5202— Joints (Filtering)

**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Lee, Thomas (For Obtaining Pure Cistern Water), Cincinnati, O.

### 5203— Joints (Flexible)

(See also Joints, Ball)

**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

**BARCO BRASS & JOINT CO. ("Martin's," "Holland," "Barco," for Air, Gas,** Liquid & Steam), 226 N Jefferson, Chicago, Ill. (See adv. index, end of book)

**FLEXIBLE JOINTS.**

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Best Mfg. Co., Pittsburg, Pa.
Clow, Jas. B. & Sons (Ball Joints), 344 Franklin, Chicago, Ill.
Coldwell-Wilcox Co., Newburgh, N. Y.
Crane Co. (Est. 1855) ("Walker"), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Draper Mfg. Co. ("Draper" Ball Union), Port Huron, Mich.
Drummond, M. J. & Co. (Pipe), 182 B'way, New York
Greenlaw Mfg. Co. ("Greenlaw"), 141 Milk, Boston, Mass.
Moran Flexible Steam Joint Co. (For Steam, Air or Liquid, all Metal), Louisville, Ky.
Peninsular Milled Screw Co., Detroit, Mich.
Power Specialty Co. ("Harter" Ball, for Piping), 111 B'way, New York
**SULLIVAN MACHINERY CO. (For** Rock Drills & Channelers), Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Walker Mfg. Co. (Pipe or Ball Joints), Fenton, Mich.
Wood, R. D. & Co. (Pipe), 400 Chestnut, Phila., Pa.

### 5204— Joints (Insulating)

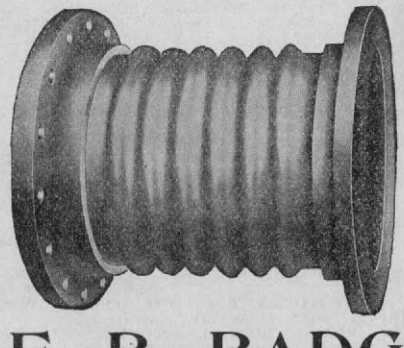
Bossert, W. F. Mfg. Co. ("Bossert", Insulated Rail Joints), Utica, N. Y.
Manhattan Railway Supply Co. ("Manhattan), 2 Rector, New York
Rail Joint Co., 185 Madison av, New York
Ristine Co. ("Acme"), The Rookery, Chicago, Ill.

### 5205—Joints (Insulating Fixture)

Chicago Gas & Electric Fixture Mfg. Co., 128 N Jefferson, Chicago, Ill.
Flagg, Stanley G. & Co., 424 N 19th, Phila., Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Macallen Co., Boston, Mass.
Mitchell-Vance Co. ("Robb" Fixture), 507 W 24th, New York
Pass & Seymour, Solvay, N. Y.
Wirt Electric Specialty Co. ("Di-El-ite"), Armat & Lena, Phila., Pa.

### 5206— Joints (Ladder)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)

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## 5207—Joints (Lap, Repressed)

Mitchell, W. K. & Co., Schuylkill av & Ellsworth, Phila., Pa.

## 5207a— Joints (Pipe)

Osborne High Pressure Joint & Valve Co. ("Osborne," High Pressure Joints & Fittings), Rookery bldg. Chicago, Ill.

**PITTSBURGH VALVE, FOUNDRY &** Construction Co. ("Atwood"), 26th & A V Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## Joints (Rail)

(See Rail Joints)

## 5208— Joints (Rail Step)

Atlas Railway Supply Co. ("Atlas"), Manhattan bldg, Chicago, Ill.

Q. & C. Co. ("National," "Q. & C.," "Compromise"), 90 West, New York

## Joints (Splice)

(See Braces, Rail)

## 5209—Joints (Sucker Rod)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)

**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 5210— Joints (Swing)

Bordo, L. J. Co. ("Bordo" Locomotive), 12th & Thompson, Phila., Pa.

Central Foundry Co. ("Universal"), 90 West, New York

Crane Valve Co. (Brass, Steam, etc.), Bridgeport, Conn.

Eastwood Wire Mfg. Co., Belleville, N. J.

Fries & Co., Buffalo, N. Y.

Hills-McCanna Co., 153 W Kinzie, Chicago, Ill.

Hoffmann, B. Mfg. Co., Milwaukee, Wis.

**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 5211— Joints (Universal)

Acme Universal Joint Mfg. Co., Kalamazoo, Mich.

Baush Machine Tool Co. ("Bocorselski"), Springfield, Mass.

Blood Bros. Machine Co. (For Automobiles, etc.), Kalamazoo, Mich.

Boston Gear Works (Bronze), Norfolk Downs, Mass.

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Central Foundry Co. ("Universal"), 90 West, New York

Eynon-Evans Mfg. Co., Phila., Pa.

Gem Mfg. Co. ("Gem," "G. & P."), Pittsburg, Pa.

Gould & Eberhardt, Newark N. J.

Gray & Prior Machine Co., Hartford, Conn.

Hartford Auto Parts Co., Hartford, Conn.

Hartford Knuckle Works, Hartford, Conn.

Kinsler-Bennett Co. (Pin), Hartford, Conn.

Laib Co. ("The Tubbs"), 149 3d, Louisville, Ky.

Michigan Wheel Co., Grand Rapids, Mich.

Peninsular Milled Screw Co., Detroit, Mich.

Reilly, J. J. Mfg. Co., Louisville, Ky.

Spicer Universal Joint Mfg. Co. ("Spicer" for Automobiles, etc.), Plainfield, N. J.

Vanderbeek Tool Works, Hartford, Conn.

Walker Mfg. Co., Fenton, Mich.

Walworth Mfg. Co., Boston, Mass.

Westinghouse Automatic Air & Steam Coupler Co. (Flexible Metallic Swivel & Universal), St. Louis, Mo.

## 5212—Joist Anchor & Timber Caps

(See also Hangers, Joist)

**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)

**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)

**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)

Goetz Box Anchor Co., New Albany, Ind.

Mesker & Bro., 421 S 6th, St. Louis, Mo.

O'Leary, Arthur J. & Son Co. (Forged Steel), 652 W Lake, Chicago, Ill.

Van Dorn Iron Works Co., Cleveland, O.

## 5213—Journals (Vulcanized Fibre)

(See also Fibre, Hard)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

**DELAWARE HARD FIBRE CO., Wilmington,** Del. Works: Marshalltown, Del. (See adv. index, end of book)

## Kalameined Iron Covered Work

(See Doors & Windows, Kalameined)

## 5214— Kainit

Armour Fertilizer Works, Chicago, Ill.

Baker, H. J. & Bro. (Importers), 100 William, New York

Buffalo Fertilizer Co., Buffalo, N. Y.

German Kali Works, 93 Nassau, New York

Grasselli Chemical Co. (Importers), Cleveland, Ohio

Heller, Hirsh & Co., 62 William, New York

New Orleans Acid & Fertilizer Co. (Importers), New Orleans, La.

Planters Fertilizer & Phosphate Co., Charleston, S. C.

Standard Guano & Chemical Mfg. Co., New Orleans, La.

Swift & Co., Union Stock Yards, Chicago, Ill

## 5214a—Kalameined Windows (Air-tight)

**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 5215— Kalsomine Mfrs.

Adams & Elting Co., 722 W Wash'n, Chicago, Ill.

Bird, J. A. & W. Co. (Petrol), Boston, Mass.

Connors, Wm. Paint Mfg. Co., Troy, N. Y.

**FOX, M. EWING & CO. (Hot & Cold** Water), 240 E 136th, New York. See adv. index, end of book)

Hainbach, Bernard, Providence, R. I.

Horn, A. C. Co., 8 Burling Slip, New York

Kalso Co. (Prepared), 775 Lexington av, New York

Lucas, Jno. & Co., 4th & Race, Phila., Pa.

Manhattan Color Works ("Fres-Ko-Kote," "Tempo-Va"), 197 Amsterdam av, New York

Moore, Benj. & Co. ("Muresco"), 231 Front, Brooklyn, N. Y.

Muralo Co., New Brighton (Borough of Richmond), New York

Rexora Mfg. Co., Detroit, Mich.

Troy Cold Water Kalsomine Co. ("Klar's" Cold Water), Troy, N. Y.

Whittaker, W. H., 245 Front, New York

Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

## 5216— Kaolin Mfrs.

American Kaolin Co., Land Title bldg, Phila., Pa.

Columbia Brick & Plaster Co. (Miners & Shippers), North East, Md.

Crossley, Geo. C. Co., Trenton, N. J.

Edgar Plastic Kaolin Co., Metuchen, N. J.

Georgia Kaolin Co., Macon, Ga.

Golding Sons Co., Trenton, N. J.

Graham Kaolin Co., Avondale, Pa.

Hewitt, F. R. Kaolin Co. (Kaolin or China Clay, Miners & Washers). Almond, N. C.

Illinois Kaolin Co., Anna, Ill.

Immaculate Kaolin Co., Langley, S. C.

Kaolin Mining Co., Franklin Bank bldg, Phila., Pa. Mines: McIntyre, Ga.

**KREISCHER BRICK MFG. CO., 119** E 23d, New York. Works, Kreischerville, S. I., N. Y. (See adv. index, end of book)

Lamar, T. G. Kaolin Co., Langley, S. C.

McIntyre Kaolin Co., Baltimore, Md. Mines: McIntyre, Ga.

Ostrander Fire Brick Co., Troy, N. Y., & Ostrander, N. J.

Palattakaha Kaolin Co., Leesburg, Fla.

Peerless Clay Co., Langley, S. C.

Philadelphia Clay Co. (Miners & Shippers), 1201 Chestnut, Phila., Pa.

Raritan Ridge Clay Co., Metuchen, N. J.

Remmey, Richard Sons Co., Hedley & Del River, Phila., Pa.

Star Clay Co., Mertztown, Pa.

Welsh Mountain Mining & Kaolin Mfg. Co., 352 S 4th, Phila., Pa.

Whitehead Bros. Co., 537 W 27th, New York

## 5216a—"Karbolith" Flooring, Stairs, Sanitary Base & Wainscoting

**AMERICAN MASON SAFETY TREAD** Co., 502 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

## 5217— Keg Mfrs.

Acme Stamping Co. (Powder, etc.), **Shamokin, Pa.**

Albrecht, Fred'k (Wood), W Pratt & Smallwood, **Baltimore, Md.**

**AMERICAN CAN CO. (Steel White** Lead), 447 W 14th, New York. (See adv. index & branch offices, end of book)

American Wooden Ware Mfg. Co. **(Quartered** White Oak Liquor, Cider, Pickle, etc.), Toledo, O. Works, Leakey, Tex.

**BALTIMORE COOPERAGE CO., THE,** (Brewers', etc.; also Barrels), c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)





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Bridge's, A. D. Sons (Powder), Hazardville, Conn.
Brooklyn Cooperage Co. (Nail, etc.), 117 Wall, New York
Budke Mfg. Co. (Steel Powder), 421 Wood, Pittsburg, Pa.
Greif Bros. Co. (For Nails, Bolts, Nuts, Rivets, Screws, Horse Shoes, etc.), Cleveland, O.
Gulf Cooperage Co., Pittsburg, Pa.
**Impervious Package Co. (Nail, etc.), Keene, N. H.**
Kimball-Tyler Co. (Wooden), Baltimore, Md.
Robinson, W. S. Co., New Haven, Conn.
Peirce, W. E. & Co., Milford, N. H.
Schwarzwalder, J. & Sons (Nail, etc.), 32 Stone, New York
Stuber & Kuck (Powder), Peoria, Ill.
Western Cooperage Co. (All Kinds of Barrels & Kegs), Portland, Ore.

## 5217a— Kegs (Steel)

Wood, J. & Bros. Co. (For Powder, etc.), Conshohocken, Pa.

## 5218— Kegs (Steel Lead)

**AMERICAN CAN CO., 447 W. 14th,** New York. (See adv. index & branch offices, end of book)

## 5219— Kegs (Steel Shop)

Clark, W. J. Co., Salem, O.
Cleveland Wire Spring Co., Cleveland, O.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index, end of book)
Ohio Mfg. Co., Painesville, O.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 5219a— Kellastone

U. S. Kellastone Co. (For Floors, Roofs, Walls, etc.), Terre Haute, Ind.

## 5220— Kettles (Acid)

Stuart & Peterson Co. (Iron), Burlington, N. J.

## 5221—Kettles (Aluminum Steam Jacketed)

Illinois Pure Aluminum Co., Lemont, Ill.

## Kettles (Aniline)

**(See Kettles, Size)**

## 5221a—Kettles (Asphalt)

(See Kettles, Tar & Asphalt; also Heaters, Asphalt, Pitch & Tar)

## 5222— Kettles (Calcining)

**Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kans.**

## 5223— Kettles (Caldron)

Busch's A. Son's Co., Elizabeth, N. J.
Creamery Package Mfg. Co., Chicago, Ill.
Donaldson Bros., Mt. Clemens, Mich.
Giblin & Co., Utica, N. Y.
Gowanda Agricultural Works, Gowanda, N. Y.
Greenville Implement Co., Greenville, Mich.
Heller, Aller Co., Napoleon, O.
Lehr Agricultural Co., Fremont, O.
Lyon Iron Works, Greene, N. Y.
Moore Plow & Implement Co., Greenville, Mich.
Mott, J. L. Iron Works, 118 5th av, New York
Munnsville Plow Co., Munnsville, N. Y.
Stuart & Peterson Co., Burlington, N. J.
Vulcan Copper Works, 120 Syracuse, Cincinnati, Ohio

## 5224— Kettles (Cast Iron)

United States Cast Iron Pipe & Foundry Co., 71 B'way, New York

## 5225—Kettles (Caustic Soda)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
Eastwood Wire Mfg. Co., Belleville, N. J.
Marshall Foundry Co., 28th & A V R R, Pittsburg, Pa.

## 5226— Kettles (Conveying)

Stuart & Peterson Co., Burlington, N. J.

## 5226a— Kettles (Dross)

**WILFONG, MILLARD F., IRON** Works Co., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

## 5227—Kettles (Galvanizing)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Columbiana Boiler Co., Columbiana, O.
Heggie, James G., Joliet, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Meehan Boiler & Construction Co., Lowellville, O.**
National Mfg. Co., N S, Pittsburg, Pa.
National Wrought Iron Annealing Box Co., Washington, Pa.
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO. (Riveted &** Welded), Alliance, O. (See adv. index, end of book)
Sharon Boiler Works, Sharon, Pa.
Standard Boiler & Plate Iron Co., Niles, O.

**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILFONG, MILLARD F., IRON** Works Co., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

## 5228—Kettles (Glue Cooking)

(See also Heaters, Glue)

**HAMMACHER, SCHLEMMER CO.,** 133 4th av, New York. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 5229— Kettles (Melting)

**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**WILFONG, MILLARD F. IRON** Works Co., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

## 5230—Kettles (Paint & Varnish)

Frelinger, J. G. Iron Works (Steel & Copper), Cincinnati, O.
Marshall Foundry Co., Pittsburg, Pa.

## 5231—Kettles (Silver Lined)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 5232— Kettles (Size)

Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.
Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Townsend Foundry & Machine Shop Co. (Aniline, Albany, N. Y.

## 5232a— Kettles (Smelting)

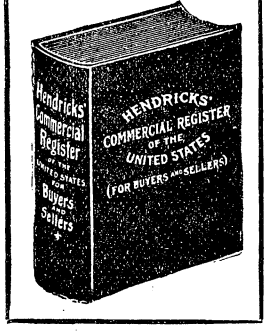
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 5233— Kettles (Soap)

Cambridge Iron Works, Cambridge, Mass.

## 5234—Kettles (Soda, Tool Cleaning)

Brown & Sharpe Mfg. Co., Providence, R. I.
Gray & Prior Machine Co. (Soda & Potash), Hartford, Conn.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Manufacturing, Equipment & Engineering Co., So. Framingham, Mass.




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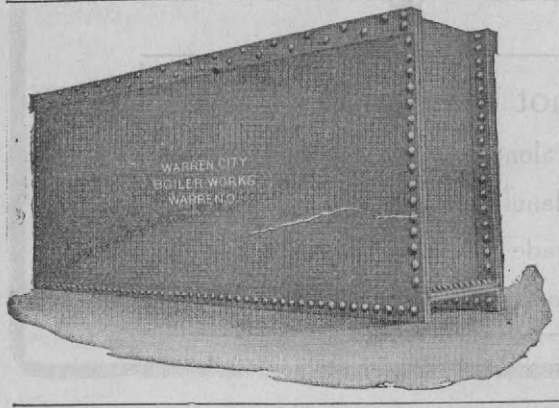
American Copper & Brass Works, Cincinnati, O.
**BADGER, E. B. & SONS CO., 75** Pitts, Boston, Mass. (See adv. index, end of book)
Baeuerle & Morris, 932 N Front, Phila. Pa.
Baker, G. W. Machine Co. (And Mixers for Tanners & Curriers), Wilmington, Del.
Boston Copper Works, Boston, Mass.
Blymyer Iron Works Co., Cincinnati, O.
Brewer, Wm. W., Troy, N. Y.
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Connery & Co., 9th & Master, Phila., Pa.
Dame & Townsend Co., Cliff & Fulton, New York
Day, J. H. Co., Cincinnati, O.
Enameled Pipe & Engineering Co. (Steel Enameled, 50 to 800 Gallons), Elyria, O.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
French Oil Mill Machinery Co., Piqua, O.
Geiger & Bush (Copper, for all Purposes), Bucyrus, O.
Gibson Iron Works Co., Jersey City, N. J.
**GRAVER, WM. TANK WORKS (for** Lard, Soap, Refining, etc.), East Chicago, Ind. (See adv. index & branch offices, end of book)
Harris, Arthur & Co., 212 N Curtis, Chicago, Ill.
Holmberg, Chas. & Co. (Copper), 313 W Michigan, Chicago, Ill.
Kelso & Co., 559 W Quincy, Chicago, Ill.
**KENNICOTT CO. (For all Purposes),** Sales Office: Corn Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Littleford Bros., 453 E Pearl, Cincinnati, O.
McElroy Iron Works Co., Keokuk, Ia.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book
Maryland Mfg. & Cons. Co., Baltimore, Md.
Mott, J. L. Iron Works, 118 5th av, New York
Motter, Geo. F. & Sons, York, Pa.
Murray Iron Works Co., Burlington, Ia.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Novelty Steam Boiler Works (Triplett & Jennings, Prop's), 917 Howard, Baltimore, Md.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Petty, J. K. & Co. (Lebanon Boiler Works), Stephen Girard bldg, Phila., Pa. Works, Lebanon, Pa.
Pioneer Iron Works, 140 Pioneer, B'klyn, N. Y.
**REEVES BROS. CO., Alliance, O. (See** adv. index, end of book)
Renneburg, E. & Sons Co., Baltimore. Md.
Rockford Boiler & Steel Co., Rockford, Ill.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Savage Bros. Co. (Candy Makers), 321 W Michigan, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Scannell Boiler Works, Lowell, Mass.
Smith's, Jno. E. Sons Co. (For Tanners), Buffalo, N. Y.
Smith & Anthony Co., Boston, Mass.
Sowers Mfg. Co. (Seamless), Buffalo, N. Y.
Sperry, D. R. & Co., Batavia, Ill.
**SPRAGUE CANNING MACHINERY CO.** (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stuart & Peterson Co., Burlington, N. J.
Vulcan Copper Works, Cincinnati, O.
Walker, Pratt Mfg. Co., Boston, Mass.
Walworth Mfg. Co., Boston, Mass.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 5236— Kettles (Sugar)

(See also Sugar Machinery, Etc., in Letter S)
Blymyer Iron Works Co., Cincinnati, O.
Chattanooga Plow Co., Chattanooga, Tenn.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Over, Ewald, Indianapolis, Ind.
Southern Plow Co., Columbus, Ga.
Sperry, D. R. & Co., Batavia, Ill.

## 5237— Kettles (Tar)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Central Boiler Works, Detroit, Mich.
Connery & Co., 9th & Master, Phila., Pa.
Evans, F. H., 31 Hewes, Brooklyn, N. Y.
Hibbs, E. A., 209 Quarry, Phila., Pa.
Honhorst, Joseph Co., Cincinnati, O.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Littleford Bros., 453 E Pearl, Cincinnati, O.
Lyman, W. C., 49 Michigan, Chicago, Ill.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)


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**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Pioneer Iron Works, 149 Pioneer, B'klyn, N. Y.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Schalkenbach & Budke, Jersey City, N. J.
Smith, Samuel & Son Co., Paterson, N. J.
Steubner, G. L. Iron Works, Long Island City, N. Y.
Tidewater Iron Works, Hoboken, N. J.
Union Iron Works, Hoboken, N. J.

## 5237a– Kettles (Thawing)

**du PONT, E. I. de NEMOURS POWder Co.** ("Bradford", "Catasauqua", "Miners"), Wilmington, Del. (See adv. index & branch offices, end of book)

## 5238– Kettles (Tilting)

Stuart & Peterson Co. (Iron), Burlington, N. J.

## 5238a– Kettles (Tinning)

**WILFONG, MILLARD F. IRON** Works Co., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

## 5340–Key Plates (Porcelain)

Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

## Key Sweaters

(See Machines, Key-Seating)

## 5241– Keys (Brake Shoe)

Beall Bros. (Inc.), Alton, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Q. M. S. Co. ("Q. & C."), Plainfield, N. J.
Steel Car Forge Co. (Iron or Steel for Christie Heads), Pittsburg, Pa. Works, Elwood City, Pa.
Valley Forging Co., Verona, Pa.
Western Tool & Forge Co., Brackenridge, Pa.

## 5242– Keys (Electrical)

**LEEDS & NORTHUP CO., Stenton av,** Gtn., Phila., Pa. (See adv. index, end of book)

## 5243–Keys (Flat Spring & Riveted)

(See also Cotters, Spring, Etc.)

**AMERICAN SPIRAL SPRING & MFG.** Co. (Split & Riveted), 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**BETTCHER MFG. CO. (Flat Riveted),** Clark av at C. C. C. & St. L. Ry, S. W., Cleveland, O. (See adv. index, end of book)
Brooks, M. S. & Sons (Flat Steel Spring or Riveted), Chester, Conn.
Eastern Railway Supply Co., Baltimore, Md.
Hallinger Fence Co. (Flat Steel Spring), Greenville, O.
Haskell, W. H. Mfg. Co., Pawtucket, R. I.
Hindley Mfg. Co. ("Columbia" Flat & Flat Spring Steel), Valley Falls, R. I.
Jenckes, E. Mfg. Co. (Flat Spring Only), Worcester, Mass.
National Screw & Tack Co. (Flat Steel Spring or Riveted), Cleveland, O.
Pickering, R. S. (Steel Flat Spring & Riveted), Sharon Hill, Pa.
Russell, Burdsall & Ward Bolt & Nut Co. (Flat Steel Spring & Flat Riveted), Port Chester, N. Y., & Rock Falls, Ill.
Smith, F. P. & Co. ("Saco" Flat & Flat Spring Steel), Sharon Hill, Pa.
**WHITMAN & BARNES MFG. CO.** (Brass, Steel & Copper), Akron, O. (See adv. index & branch offices, end of book)
Wire Goods Co. (Iron & Brass Flat Spring), Worcester, Mass.

## 5244– Keys (Machine)

Hall Mfg. Co. (Finished), John & Cliff, New York
Henry & Allen, Auburn, N. Y.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Keystone Drop Forge Works (Shafting, etc.), Chester, Pa.
Meyer & Co. (Gib Head), Auburn, N. Y.
Morton Mfg. Co. (Finished Ready to Drive), Muskegon Heights, Mich.
Pennsylvania Shafting Co. (Finished), Spring City, Pa.
Sandwich Mfg. Co., Sandwich, Ill.
**STANDARD GUAGE STEEL CO. (Finished Steel),** Beaver Falls, Pa. (See adv. index, end of book)
Whitney Mfg. Co. (For the Woodruff System of Keying), Hartford, Conn.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## Keys (Riveted)

(See Keys, Flat Spring & Riveted)

## 5245–Keys (Socket, Rubber & Composition)

American Hard Rubber Co., 9 Mercer, New York
Auburn Button Works, Auburn, N. Y.
Dickinson Mfg. Co., Springfield, Mass.
Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Scranton Button Co., Scranton, Pa.
Siemon Hard Rubber Corp., Bridgeport, Conn.

## 5246– Keys (Split)

**AMERICAN SPIRAL SPRING & MFG.** Co. (Split & Riveted), 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.

## 5247– Killers (Fly)

Andrews Wire & Iron Works, Rockford, Ill.
Bigelow, J. F., Worcester, Mass.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hotchkiss, Edward S., Bridgeport, Conn.
Munson, Clair Co., Clinton, Iowa
National Mfg. Co. ("Faultless"), Worcester, Mass.
**OSBORN MFG. CO., Cleveland, O.** (See adv. index, end of book)
Parker Wire Goods Co., Worcester, Mass.
Phillips, A. J. Co., Fenton, Mich.
Somers, Harold, 149 De Kalb av, Brooklyn, N. Y.
U. S. Wire Mat Co. ("King"), Decatur, Ill.
Watson Co. ("Wonder"), Peru, Ind.
Western Wire Goods Co., Buffalo, N. Y.
Wire Goods Co., Worcester, Mass.
Wire Hardware Co., 1824 Besly Court, Chicago, Ill.

## 5248– Killers (Iron)

Combined Foundry Supply Co. (J. B. Kingsland & Co., Propts.), ("Kingsland", Destroys Iron in Brass), Buffalo, N. Y.

## 5249–Kiln Drying Apparatus Mfrs.

American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
Hanrahan Automatic Dryer System (For All Purposes), Buffalo, N. Y.
Link, E. M. Machinery Co., Erie, Pa.
National Blower Works, Milwaukee, Wis.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
**STURTEVANT, B. F. CO., Hyde** Park, Mass. (See adv. index & branch offices, end of book)

## 5250– Kilns (Continuous)

Haight, H., Catskill, N. Y.
Ogan, Geo. W., Danville, Ill.
Raymond, C. W. Co. ("Youngren"), Dayton, Ohio

## 5250a– Kilns (Cement)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 5251– Kilns (Dry)

(See also Dryers, Brick; also Kiln Drying Apparatus Manufacturers)

Adkins, Young & Allen Co. ("Ott" Moist Air), 23 N Canal, Chicago, Ill.
American Blower Co., Detroit, Mich.
Andrews, A. H. Co. (Lumber, Dry Kilns), 174 Wabash av, Chicago, Ill.
Buffalo Forge Co., Buffalo, N. Y.
Carnell, George (Est. of), 1819 N 5th, Phila., Pa.
Chambers Bros. Co. (Brick or Dutch), 52d, below Lancaster av. Phila., Pa.
Connery & Co., 9th & Master, Phila., Pa.
Ervien, Chas. W. & Co., Venango & G, Phila., Pa.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
Grand Rapids Veneer Works, Grand Rapids, Mich.
Green Fuel Economizer Co., Matteawan, N. Y.
Hanrahan Automatic Dryer System, Buffalo, N. Y.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Krom Machine Works, 170 B'way, New York
Miller, J. K. Co. ("Western"), Seattle, Wash.
Morton Dry Kiln Co. ("Morton" Moist Air for Lumber), Chicago, Ill.
Murphy Dry Kiln Co., Ridgway, Pa.
National Dry Kiln Co., Indianapolis, Ind.
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
North Coast Dry Kiln Co., Seattle, Wash.
Platt Pressed & Fire Brick Co. (Brick, Tile, etc.), Van Meter, Iowa
Raymond, C. W. Co. (Brick & Pottery), Dayton, O.
Richardson-Lovejoy Engineering Co. (Brick, etc.), Columbus, O.
Ridgway Mfg. Co. ("Murphy" Moist Air Condensing, for Lumber), Ridgway, Pa.
Standard Dry Kiln Co., Indianapolis, Ind.
Sweatt, J. B., Sault Sainte Marie, Mich.
Vogt, Anton Kiln Construction Co. (Down-Draft, for Common Brick), Fort Smith, Arkansas
Wetherill, Robt. & Co. (Inc.), Chester, Pa.

## 5252–Kilns (Lime Burning)

**ATLAS CAR & MFG. CO., 1289 Marquette rd,** N E, Cleveland, O. (See adv. index, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
Connery & Co., 9th & Master, Phila., Pa.
Duff Patents Co., Pittsburg, Pa.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Improved Equipment Co. ("Doherty-Eldred", Coal Fired), 60 Wall, New York
Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
North American Portland Cement Co., 30 Broad, New York
Smidth, F. L. & Co., 50 Church, New York
Steacy-Schmidt Mfg. Co. ("Keystone," Continuous), York, Pa.
Wilke Mfg. Co., Anderson, Ind.

## 5252a–Kilns (Lumber Drying)

(See Kiln Drying Apparatus Mfrs.)

## 5252b– Kilns (Roasting)

(See Kilns, Rotary)


# Standard Gauge Steel Company, Beaver Falls, Pa., U. S. A.

..Manufacturers of..

FINISHED MACHINE KEYS, STEEL MACHINE RACK, LEAD, FEED, PRESS AND ADJUSTING SCREWS.

COLD COMPRESSED STEEL ELEVATOR GUIDES, FLATS, SQUARES, HEXAGONS, ANGLES, AND SPECIAL SHAPES IN FINISHED STEEL.
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## 5253— Kilns (Rotary)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bonnot Company, Canton, O.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Connery & Co., 9th & Master, Phila., Pa.
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Leslie, Elliott & Co., Paterson, N. J.
McDermitt Bros. Co., Allentown, Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book
Manitowoc Engineering Works, Manitowoc, Wis.
Mosser, W. F. & Son, Allentown, Pa.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**REEVES BROS. CO. (For Cement,** etc.), Alliance, O. (See adv. index, end of book)
Sharon Boiler Works, Sharon, Pa.
Sterrit-Thomas Foundry Co., Pittsburg, Pa.
Variety Iron & Steel Works Co., Cleveland, O.
Vulcan Iron Works, Wilkes-Barre, Pa.
Wetherill, Robt. & Co. (Inc.), Chester, Pa.

## 5254—Kindergarten Supplies

**Hamilton Mfg. Co., Two Rivers, Wis.**
**Tubbs Mfg. Co., Ludington, Mich.**

## 5255— Kitchen Sets

American Cutlery Co. ("American Kitchen Friend"), 732 Mather, Chicago, Ill.
White, Ira F. & Son Co., Bloomfield, N. J.

## Kitchen Utensils for Hotels & Institutions

(See Cooking Apparatus)

## 5256—Kits (Syrup, Honey, Etc.)

Pierpont Mfg. Co. (5 & 10 Gallon, Cypress), Savannah, Ga.

## 5257— Knapsacks

**Boyle, John & Co., 112 Duane, New York**
**Peddie, T. B. & Co., Newark, N. J.**
**Pettibone Bros. Mfg. Co., Cincinnati, O.**
**Rosenson, D. & Son, New Orleans, La.**

## 5257a—Knife & Weeder (Asparagus)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 5258— Knives (Angle)

**TRETHEWEY, SAM'L & CO. Ltd.** (Solid Steel), 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 5259—Knives (Apple Grinder)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5260—Knives (Back Lathe)

Dowd, R. J. Knife Works, Beloit, Wis.

## 5261— Knives (Banana)

**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Harrington Cutlery Co. (Dexter), Southbridge, Mass.
Murphy, R. & Sons ("R. Murphy's"), Ayer, Mass.
Stortz, John & Son, 210 Vine, Phila., Pa.
Tuck Mfg. Co., Brockton, Mass.

## 5262—Knives (Band Cutter & Self Feeder)

American Knife Co., Baldwinsville, N. Y.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.
Herschel, R. Mfg. Co., Peoria, Ill.
Meyer & Co., Auburn, N. Y.
**WHITMAN & BARNES MFG. CO., Akron, O.** (See adv. index & branch offices, end of book)

## Knives (Bark Grinder)

(See Knives, Wood Barking Machine)

## 5263—Knives (Barrel Machine)

American Knife Co., Baldwinsville, N. Y.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Worden Tool Co., Cleveland, Ohio

## 5264—Knives (Bean Harvester)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.
Mason, F. C. & Co., St. Johns, Mich.

## 5265—Knives (Beet Topper)

American Fork & Hoe Co., Cleveland, O.
American Knife Co., Baldwinsville, N. Y.
**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Clyde Cutlery Co., Clyde, O.

## 5266— Knives (Belt)

Clemson Knife Co., Woburn, Mass.
Clemson-Bailey Co., Woburn, Mass.
Lyon, Edw. S., Woburn, Mass.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 5267—Knives (Bone Cutter)

American Knife Co., Baldwinsville, N. Y.
Anderson Knife & Bar Co., Anderson, Ind.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5267a—Knives (Bookbinder)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5268—Knives (Box Corner Cutter)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5269— Knives (Bread)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
**BLANCHARD BROS., Inc. (Advertising),** 308 Main, Davenport, Ia. (See adv. index, end of book)
Clark & Parsons Co. **("Lightning"), Oakland, Me.**
Clauss Shear Co. ("Clauss"), Fremont, O.
Dunn Edge Tool Co., Oakland, Me.
Grammes, L. F. & Sons, Allentown, Pa.
Harrington Cutlery Co. (Dexter), Southbridge, Mass.
Kimball, C. J. Co., Bennington, Vt.
Knickerbocker Mfg. Co. (Also Sterrated Bread Knives), Belleville, N. J.
Landers, Frary & Clark, New Britain, Conn.
National Selling Co., Allentown, Pa.
North Wayne Tool Co. ("C. C. Brooks"), Hallowell, Me.
Ontario Knife Co., Franklinville, N. Y.
Tuck Mfg. Co., Brockton, Mass.
White, Ira F. & Son Co., Bloomfield, N. J.

## 5270— Knives (Brick)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
Dunne, Geo. W. & Co., 1943 Carroll av, Chicago, Ill.

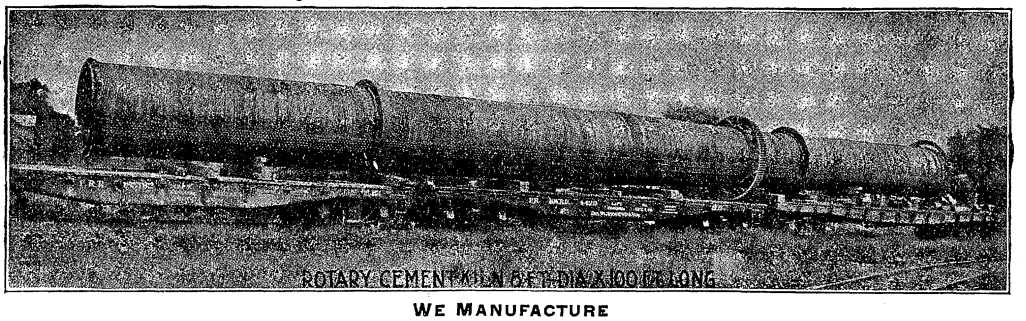
## 5271—Knives (Broom Corn)

Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.

## 5272— Knives (Butchers')

American Cutlery Co., 764 Mather, Chicago, Ill.
American Knife Co., Baldwinsville, N. Y.
**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)


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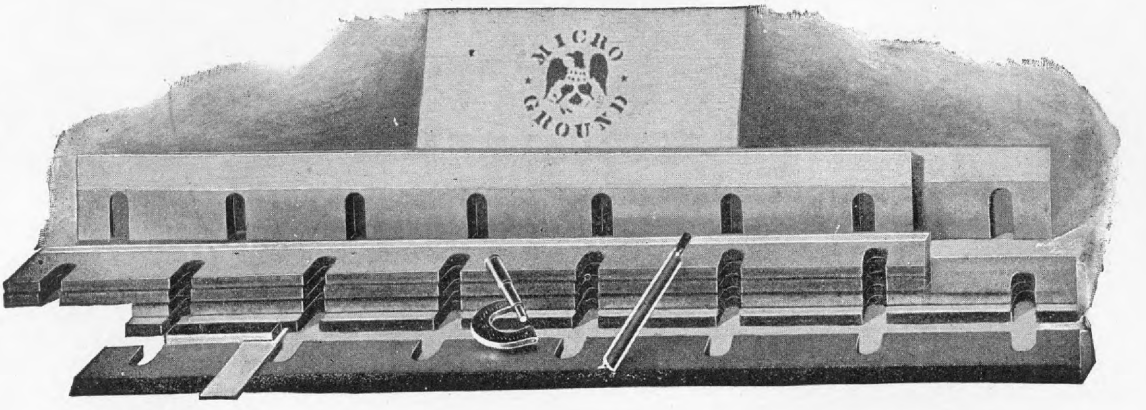
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**Hendricks' Commercial Register**


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Boker, Hermann & Co. ("Jno. Wilson's", Imported Knives & Steels), 101 Duane, New York
Clyde Cutlery Co., Clyde, Ohio
Columbia Cutlery Co., Reading, Pa.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Graef & Schmidt ("J. A. Henckel's Twin Works"), 107 Duane, New York
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Hulbert, E. L. & Co., Bernardstown, Mass.
Kastor, Adolph & Bros. ("Thomas Wilson", Knives & Steel), 109 Duane, New York
Kimball, C. J. Co., Bennington, N. H.
Knickerbocker Mfg. Co., Belleville, N. J.
Lamson & Goodnow Mfg. Co. ("L. & G."), Shelburne Falls, Mass.
Landers, Frary & Clark, New Britain, Conn.
Mack & Co., Rochester, N. Y.
Meriden Cutlery Co., Meriden, Conn.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen & Co. ("S. R.") Southbridge, Mass.
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, end of book)
Tuck Mfg. Co., Brockton, Mass.
Washington Cutlery Co., Watertown, Wis.
White, Ira F. & Son Co., Bloomfield, N. J.
White, L. & I. J. Co., Buffalo, N. Y.
Woodworth Knife Works, Nunda, N. Y.

## 5273— Knives (Cane)

Atkins, E. C. & Co., Indianapolis, Ind.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.

## 5274— Knives (Carpet)

Murphy, R. & Sons ("R. Murphy's"), Ayer, Mass.
Osborne, C. S. & Co., Harrison, N. J.

## 5275— Knives (Carving)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nichols Bros."), Greenfield, Mass. (See adv. index, end of book)**
Columbian Cutlery Co., Reading, Pa.
Goodell Co. (Cut Glass Handle, etc.), Antrim, N. H.
Knickerbocker Mfg. Co., Belleville, N. J.
Lamson & Goodnow Mfg. Co., Shelburne Falls, Meriden Cutlery Co., Meriden, Conn. Mass.
Silver Plate Cutlery Co., Shelton, Conn.
White, Ira F. & Son Co., Bloomfield, N. J.

## 5276— Knives (Celluloid)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5277—Knives (Chair Bottom)

Branch Saw Co., St. Louis, Mo.
Dowd, R. J. Knife Works, Beloit, Wis.

## 5278— Knives (Chamfer)

Bradley's, G. W. Sons, Westport, Conn.
Branch Saw Co., St. Louis, Mo.
White, L. & I. J. Co. (Right & Left & Beer Keg, etc.), Buffalo, N. Y.

## 5279— Knives (Cheese)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nichols Bros."), Greenfield, Mass. (See adv. index, end of book)**
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
**Harrington Cutlery Co. (For Family Use), Southbridge, Mass.**
**Landers, Frary & Clark, New Britain, Conn.**

## 5280— Knives (Chipper)

Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knife Works, Beloit, Wis.
Mitts & Merrill, Saginaw, Mich.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**
**Stortz, Jno. & Son, 210 Vine, Phila., Pa.**
Taylor Bros. & Co., Fulton, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.

## 5281— Knives (Chipping)

Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**Cronk & Carrier Mfg. Co., Elmira, N. Y.**
Johnson, Wm. (Hedensberg Works), Newark, N. J.

## 5282— Knives (Chopping)

Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
Dover Stamping & Mfg. Co. (For Family Use), Cambridge, Mass.
Parks & Parks ("Or Mincing"), Troy, N. Y.

## 5283— Knives (Cigar)

American Cutlery Co., 764 Mather, Chicago, Ill.
Emrich, Phil., Cincinnati, Ohio
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
National Selling Co., Allentown, Pa.
Osborne, C. S. & Co., Harrison, N. J.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co., Brockton, Mass.

## 5284— Knives (Circular)

Disston, Henry & Sons, Inc. (For Cork, Cloth, Leather & Paper), Tacony, Phila., Pa.

## Knives (Clam)

(See Knives, Oyster & Clam)

## 5285— Knives (Clothespin)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5286—Knives (Clover Huller)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5287—Knives (Cooperage)

Black, John B. ("Wm. Beatty & Sons"), Chester, Conn.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
**Mack & Co., Rochester, N. Y.**
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**
White, L. & I. J. Co., Buffalo, N. Y.

## 5288—Knives (Cope Cutter)

Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Dowd, R. J. Knife Works, Beloit, Wis.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**
Taylor Bros. & Co., Fulton, N. Y.

## 5288a—Knives (Cord Wood Splitter)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5289— Knives (Cork)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Disston, Henry & Sons, Inc. (Circular), Tacony, Phila., Pa.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
Simonds, A. A. & Son Co., Dayton, O.

## Knives (Corn Cutter)

(See Knives, Hay & Corn Cutter)

## 5290—Knives (Corn Harvester)

American Knife Co., Baldwinsville, N. Y.
Anderson Knife & Bar Co., Anderson, Ind.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Henry & Allen, Auburn, N. Y.
Herschel, R. Mfg. Co., Peoria, Ill.
Hunt, Helm, Ferris & Co., Harvard, Ill.
North Wayne Tool Co. ("H. S. Earle's"), Hallowell, Me.
Washington Cutlery Co., Watertown, Wis.

## 5291—Knives (Cotton Seed Huller)

American Knife Co., Baldwinsville, N. Y.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5291a—Knives (Cotton Shear)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5292— Knives (Curd)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5293—Knives (Cylinder Huller)

French Oil Mill Machinery Co., ("Flaherty," For Cottonseed & Linseed Oil Mills, etc.), Piqua, O.

## 5294— Knives (Dehorner)

American Knife Co., Baldwinsville, N. Y.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5295— Knives (Dirk)

Novelty Cutlery Co., Canton, O.

## 5295a—Knives (Double Edge)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5296— Knives (Dowel)

**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**

## 5297— Knives (Drawing)

Black, John B., Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Buck Bros., Millbury, Mass.
Greenlee Bros. & Co. ("Reliance"), Railway Exch. bldg, Chicago, Ill.
Jennings, C. E. & Co., 42 Murray, New York
Hibbard, Spencer, Bartlett & Co. ("O. V. B."), 1 State, Chicago, Ill.
Kimball, C. J. Co. (Cast Steel), Bennington, N. H.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Ohio Tool Co., Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
S. & I. Co. (Razor, Blade & Folding Handle), Springfield, Mass.
**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**
Smith, H. D. & Co. ("Perfect Handle"), Plantsville, Conn.
Swan, Jas. Co. ("Bradley" Pattern, "Swan" Folding Handle, etc.), Seymour, Conn.
Washington Cutlery Co., Watertown, Wis.
White, L. & I. J. Co., Buffalo, N. Y.
Wilkinson, A. J. & Co. (Folding), Boston, Mass.
Winsted Edge Tool Co. ("T. H. Witherby"), Winsted, Conn.
Yale, C. I. Mfg. Co., Yalesville, Conn.

## 5298— Knives (Ensilage)

American Knife Co., Baldwinsville, N. Y.
Anderson Knife & Bar Co., Anderson, Ind.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Hardy, L. Co., Worcester, Mass.
Henry & Allen, Auburn, N. Y.
Taylor Bros. & Co., Fulton, N. Y.

## 5299— Knives (Excelsior)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)**
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knife Works, Beloit, Wis.
**Hiles, C. A., & Co., 14th & Western av, Chicago, Ill.**

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Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.

## 5300– Knives (Farriers')

Challenge Cutlery Corporation, Bridgeport, Conn.
Champion Tool Co. ("Champion"), Meadville, Pa.
Pope, T. J. ("Pope's"), Sauquoit, N. Y.
Wiebusch & Hilger (Ltd.) ("Genuine Pope"), 106 Lafayette, New York

## 5301–Knives (Feather Curling)

Murphy, R. & Sons ("R. Murphy's"), Ayer, Mass.

## 5302–Knives (Fur Cutter)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Richard, Spencer Co. ("S. R."), Southbridge, Mass.
Simonds, A. A. & Son Co., Dayton, O.
White, L. & I. J. Co., Buffalo, N. Y.

## 5302a–Knives (Gaining Cutter)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5303–Knives (Gauge Lathe)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5304–Knives (Grape Pruner)

Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.

## 5304a– Knives (Handle)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5305–Knives (Harness Makers')

Osborne, C. S. & Co., Harrison, N. J.

## 5306– Knives (Hay)

Clark & Parsons Co. ("Hiram Holt Lightning," "Blizzard," "Maine"), Oakland, Me.
**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Dunn Edge Tool Co., Oakdale, Maine.
**Ely, Theo. Mfg. Co. ("Ely's Dandy"), Girard, Pa.**
Erie City Mfg. Co. ("Arrow"), Erie, Pa.
Iwan Bros. ("Iwan's," Sickle & Serrated Waving Edge), South Bend, Ind.
Nolin Mfg. Co. ("Nolin"), Skowhegan, Me.
North Wayne Tool Co., Hallowell, Me.
Swineford, G. A. Co., Canton, O.
White, L. & I. J. Co., Buffalo, N. Y.

## 5307–Knives (Hay & Corn Cutter)

American Axe & Tool Co., Glassport, Pa.
American Knife Co., Baldwinsville, N. Y.
Bateman Mfg. Co. ("The Eureka"), Greenloch, N. J.
Clark & Parsons Co., Oakland, Me.
**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Ely, Theo. J. Mfg. Co. ("Dandy"), Girard, Pa.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Henry & Allen, Auburn, N. Y.
National Saw Co. (Corn), Newark, N. J., & Middletown, N. Y.
Ney Mfg. Co. ("American" Sickle Edge), Canton, O.
North Wayne Tool Co. ("C. C. Brooks" & "H. S. Earle's"), Hallowell, Me.
Taylor Bros. & Co., Fulton, N. Y.
Wallingford Mfg. Co. ("Western King", "Keystone", "Daisy Clipper"), Wallingford, Vt.
Winsted Mfg. Co., Winsted, Conn.
Worden Tool Co., Cleveland, O.

## 5307a– Knives (Header)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5308–Knives (Hedge & Root)

Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Evansville Tool Works (Axle Handle), Evansville, Ind.

## 5308a–Knives (Heel Breaster)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5308b–Knives (High Speed Steel)

**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## 5309– Knives (Hog)

Brach Saw Co., St. Louis. Mo.
Mitts & Merrill, Saginaw, Mich.

## 5310– Knives (Hoop)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
Brach Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
Dowd, R. J. Knife Works, Beloit, Wis.
Simonds, A. A. & Son Co., Dayton, O.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., Cleveland, Ohio

## 5310a–Knives (Hoop Machine)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5311– Knives (Howell)

Branch Saw Co., St. Louis, Mo.
White, L. & I. J. Co., Buffalo, N. Y.

## 5312– Knives (Hunting)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Clyde Cutlery Co., Clyde, Ohio.
Humason & Beckley Mfg. Co., New Britain, Conn.
Lamson & Goodnow Mfg. Co., Shelburne Falls, Mass.
Marble Arms & Mfg. Co. ("Sportsman's" Camp, "Sportsman's Fish" and "Expert" and "Ideal" Hunting), Gladstone, Mich.
Richard Stephen Co. ("S. R."), Southbridge, Mass.
**SMITH & HEMENWAY CO. ("Jno. Engstrom"),** 150 Chambers, New York. (See adv. index, end of book)

## Knives (Jointer)

(See Knives, Wood Working Machine)

## 5313– Knives (Kitchen)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nichols Bros"),** Greenfield, Mass. (See adv. index, end of book)
**BLANCHARD BROS., Inc. (Advertising),** 308 Main, Davenport, Ia. (See adv. index, end of book)
Browne, W. G. Mfg. Co. ("Acme" "Elite"), Kingston, N. Y.
Browne & Dowd Mfg. Co. ("B. & D. Co."), Meriden, Conn.
Clyde Cutlery Co., Clyde, O.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Knickerbocker Mfg. Co., Belleville, N. J.
Murphy, Robt. & Sons ("R. Murphy's"), Ayer, Mass.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
White, Ira F. & Son Co. (Also Slotted), Bloomfield, N. J.

## 5314–Knives (Lawn Mower)

Anderson Knife & Bar Co., Anderson, Ind.
**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Hardy, L. Co., Worcester, Mass.
Harrow Spring Co., Kalamazoo, Mich.
Henry & Alleen, Auburn, N. Y.

## 5315–Knives (Leather Splitting)

Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.
Emrich, Phil., Cincinnati, Ohio
Flagg, Edw. H., Dover, N. H.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Mack & Co., Rochester, N. Y.
Osborne, C. S. & Co. (Harnes Makers, etc.), Harrison, N. J.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Simonds, A. A. & Son Co., Dayton, O.
White, L. & I. J. Co., Buffalo, N. Y.

## 5316– Knives (Linotype)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 5316a–Knives (Listing Jointer)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5317–Knives (Lithograph Stone)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.

## 5317a– Knives (Logwood)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5318–Knives (Loin Cutting)

White, L. & I. J. Co., Buffalo, N. Y.

## 5319–Knives (Loom, Axminster)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5320–Knives (Loom, Carpet)

**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)

## 5321– Knives (Machine)

American Knife Co., Baldwinsville, N. Y.
Anderson Knife & Bar Co., Anderson, Ind.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind
Bailey & Blendinger Mfg. Co., Woburn, Mass.
Branch Saw Co, St Louis, Mo
California Saw Works, San Francisco, Cal.
Chattanooga Saw Works, Chattanooga, Tenn.
Chicago Knife Works, 228 S Clinton, Chicago, Ill.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester.** Mass. (See adv. index, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
Detroit Edge Tool Works, Detroit, Mich.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Dowd, R. J. Knife Works, Beloit, Wis.
Eagle Knife & Bar Co., Lawrence, Mass.
Eagle Saw Works, Chattanooga, Tenn.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Flagg, Joshua G. & Son (Leather Splitting, etc.), Dover, N. H.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Foucart, J. E., Williamsport, Pa.
Fowle Bros. & Co., Woburn, Mass.
Gage, E. E. Mfg. Co., Gardner, Mass.
Grover, Jno. B., File Co., Nashua, N. H.
Gustafson & Scott Mfg. Co., 331 S Clinton, Chicago, Ill.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Hardisty & Co., Station C, Cincinnati, O.
Hardy, L. C. Co., Worcester, Mass.
Henry & Allen, Auburn, N. Y.
Hiles, C. A., & Co., 14th & Western av, Chicago, Ill.
Holyoke Bar Co., Holyoke, Mass.
Horne, J. H., & Sons Co. (Planing, etc.), Lawrence, Mass.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Lovejoy, D. & Son, Lowell, Mass.
Loyd, John, Co., 558 Water, New York.
Mack & Co., Rochester, N. Y.
Mitts & Merrell, Saginaw, Mich.
Moss & Graham, 224 Centre, New York
National Saw Co., Newark, N. J.

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Ohio Knife Co., Cincinnati, O.
Oldham, Joshua, & Sons, 114 26th, Brooklyn,
Otis Tool Co., Columbus, O. N. Y.
Penfield Saw Works, Bristol, Conn.
Pittsburg Shear, Knife & Machine Co., 47th & R. R. av, Pittsburg, Pa.
Russell, John B., Napanoch, N. Y.
Sandusky Tool Co. (Planer, etc.), Sandusky, O.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Snell & Atherton, Brockton, Mass.
Southern Saw Works, Atlanta, Ga.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Taylor Bros. & Co., Fulton, N. Y.
Taylor, Stiles & Co., Riegelsville, N. Y.
Thomson, W. S., 418 W 27th, New York
Toledo Saw Co., Toledo, O.
Webb Baxter Co., Anderson, Ind.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., Cleveland, Ohio

## Knives (Machine, Wood Cutting)

(See Knives, Wood Working Machine)

## 5321a—Knives (Marble Cutter Bit)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## Knives (Matcher)

(See Knives, Wood Working Machine)

## 5322— Knives (Meat Slicer)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5323— Knives (Metal Shear)

**BLISS, E. W., CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington,** Del. (See adv. index, end of book)

## 5324—Knives (Metal Slitting)

**TRETHEWEY, SAM'L & CO., Ltd.,** 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 5325— Knives (Mincing)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Browne & Dowd Mfg. Co. ("B & D Co."), Meriden, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Forsyth Mfg. Co. ("No. 801"), Buffalo, N. Y.
Kilbourne Mfg. Co., Troy, N. Y.
Knickerbocker Mfg. Co., Belleville, N. J.
Landers, Frary & Clark, New Britain, Conn.
Potter Mfg. Co. ("Potter"), Geneva, O.

## 5326— Knives (Mitre)

Branch Saw Co., St. Louis, Mo.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
White, L. & I. J. Co., Buffalo, N. Y.

## Knives (Moulding Machine)

(See Knives, Wood Working Machine)

## 5327—Knives (Mower & Reaper)

Akron Machine Co., Akron, O.
Henry & Allen, Auburn, N. Y.
Herschel, R. Mfg. Co., Peoria, Ill.
Mason, F. C. & Co., St. Johns, Mich.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 5328— Knives (Oil Cloth)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Haag, F. & G. & Co., 170 Center, New York
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.
Tuck Mfg. Co., Brockton, Mass.

## 5328a— Knives (Overlay)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5329—Knives (Oyster & Clam)

Carver Tool Works (Carver's), Spring Valley,
Clyde Cutlery Co., Clyde, Ohio **N. Y.**
Foster Bros. & Chatillon Co., Fulton, N. Y.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Landers, Frary & Clark, New Britain, Conn.
Lowentraut, P. Mfg. Co., Newark, N. J.
Murphy, R. & Sons Co. ("R. Murphy's"), Ayer, Mass.
Osborne, C. S. & Co., Harrison, N. J.
Richard, Stephen Co. ("S R"). Southbridge, Mass.
Stortz, John, & Son, 210 Vine, Phila., Pa.
Tuck Mfg. Co., Brockton, Mass.
Vaughn & Bushnell ("V. & B."), 2130 Chicago, Ill.

## 5329a—Knives (Painters')

Lamson & Goodnow Mfg. Co., Shelburne Falls, Mass.

## 5330—Knives (Panel Raising)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5331— Knives (Paper)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Foster Bros. & Chatillon Co., Fulton, N. Y.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Jacques, John & Son, Worcester, Mass.
Mack & Co., Rochester, N. Y.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.

## 5331a—Knives (Paper Box Machine)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## 5332—Knives (Paper Cutter)

American Knife Co., Baldwinsville, N. Y.
**BLANCHARD BROS., Inc. (Advertising),** 308 Main, Davenport, Ia. (See adv. index, end of book)
Branch Saw Co., St. Louis, Mo.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knive Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Lancaster Machine & Knife Works, Lancaster,
Ohio Knife Co. (The), Cincinnati, O. N. Y.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.
Taylor, Stiles & Co., Riegelsville, N. J.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., Cleveland, O.

## 5333—Knives (Paper Hangers')

American Cutlery Co., 764 Mather, Chicago,
Clyde Cutlery Co., Clyde, O. Ill.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Murphy, Robt. & Sons ("R. Murphy's"), Ayer, Mass.
Northampton Cutlery Co., Northampton, Mass.
Osborne, C. S. & Co., Harrison, N. J.
Richard Stephen Co. ("S. R."), Southbridge, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Tuck Mfg. Co., Brockton, Mass.

## 5334— Knives (Paring)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Clauss Shear Co. ("Clauss"), Fremont, O.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Knickerbocker Mfg. Co., Belleville, N. J.
Ontario Knife Co., Franklinville, N. Y.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Russell, J. & Co. ("Green River Works"), 37 Reade, New York
White, Ira F. & Son Co., Bloomfield, N. J.

## 5335— Knives (Planer)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Chattanooga Saw Works, Chattanooga, Tenn.
Chicago Knife Works, 228 S Clinton, Chicago, Ill.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Curtis & Co. Mfg. Co. ("Empire"), St. Louis, Mo.
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass.
Hardisty & Co., Cincinnati, O.
Lancaster Machine & Knife Works, Lancaster,
Mack & Co., Rochester, N. Y. N. Y.
Sandusky Tool Co., Sandusky, O.
Simonds A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.
Taylor, Stiles & Co., Riegelsville, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., 1854 Scranton road, Cleveland, O.

## 5335a— Knives (Plush)

**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)

## Knives (Pocket)

(See Cutlery Manufacturers)

## 5336— Knives (Pruning)

Osborne, C. S. & Co., Harrison, N. J.

## 5337—Knives (Pug Mill)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
Eagle Foundry & Machine Co., Fort Scott, Kan.

## 5338— Knives (Putty)

American Cutlery Co., 193 Mather, Chicago, Ill.
**BLANCHARD BROS., Inc. (Advertising),** 308 Main, Davenport, Ia. (See adv. index, end of book)
Bridgeport Hardware Mfg. Co. ("Bridgeport"), Bridgeport, Conn.
Browne & Dowd Mfg. Co. ("B. & D. Co."), Meriden, Conn.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Fletcher, Terry & Co., Forestville, Conn.
Goodell Co., Antrim, N. H.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Knickerbocker Mfg. Co., Belleville, N. J.
Lamson & Goodnow Mfg. Co., Shelburne Falls, Mass.
Landers, Frary & Clark, New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
National Cutlery Co., Detroit, Mich.
Northampton Cutlery Co., Northampton, Mass.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Stortz, John & Son, 210 Vine, Phila, Pa.
White, Ira F. & Son Co., Bloomfield, N. J.

## 5339—Knives (Rag Cutter)

American Knife Co., Baldwinsville, N. Y.,
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knife Works, Beloit, Wis.

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Dunn Edge Tool Co., Oakland, Me.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Holyoke Bar Co., Holyoke, Mass.
Ohio Knife Co. (The), Cincinnati, O.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.
Taylor, Stiles & Co., Riegelsville, N. Y.
Worden Tool Co., Cleveland, O.

## 5339a— Knives (Rand)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5340— Knives (Rattan)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5340a—Knives (Roll Scraper)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## Knives (Root)

(See Knives, Hedge & Root)

## 5341— Knives (Rotary)

**TRETHEWEY, SAM'L & CO. (Ltd.)** (Solid Steel), 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 5342— Knives (Rubber)

Murphy, R. & Sons ("R. Murphy's"), Ayer, Mass.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co. (For Heavy Electrical Rubber Goods), Brockton, Mass.

## 5343— Knives (Sardine)

Osborne, C. S. & Co., Harrison, N. J.

## 5343a— Knives (Scallop)

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

## 5344— Knives (Scarfer)

Blake & Johnson, Waterbury, Conn.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5345— Knives (Scraper)

American Cutlery Co., 764 Mather, Chicago, Ill.
Branch Saw Co., St. Louis, Mo.
Knickerbocker Mfg. Co., Belleville, N. J.
Landers, Frary & Clark, New Britain, Conn.
Northampton Cutlery Co., Northampton, Mass.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 5346—Knives (Shear Cutter)

American Knife Co., Baldwinsville, N. Y.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
White, L. & I. J. Co., Buffalo, N. Y.

## 5346a—Knives (Sheet Steel)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)

## 5347— Knives (Shingle)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., Cleveland, O.

## 5348— Knives (Shoe)

American Cutlery Co., 764 Mather, Chicago, Ill.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Coburn, F. W., New Durham, N. H.
Emrich, Phil., Cincinnati, Ohio
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Hayes Bros., New Durham, N. H.
Hyde Mfg. Co., Southbridge, Mass.
Kimball, C. J., Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
Murphy, R. & Sons ("R. Murphy's"), Ayer, Mass.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co. ("S. V. Tuck," "T. M. Co.," "Black Diamond"), Brockton, Mass.
White, Ira F. & Son Co., Bloomfield, N. J.

## 5348a— Knives (Shredder)

Akron Machine Co., Akron, O.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.

## 5348b— Knives (Skiver)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5349—Knives (Slaw & Vegetable)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5350—Knives (Solid Steel Shear)

Cleveland Machine Knife Co., Cleveland, O.
Heppenstall Forge & Knife Co., Pittsburg, Pa.
**TRETHEWEY, SAM'L & CO. (Ltd.)** 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 5350a—Knives (Spiral, of All Classes)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5351—Knives (Spiral Tenon)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5352— Knives (Splitter)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5353—Knives (Spoke Lathe)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass.
Sandusky Tool Co., Sandusky, O.
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.

## 5353a—Knives (Sportsmen's)

Billings & Spencer Co. ("Billings"), Hartford, Conn.

## 5354—Knives (Stave Cutter)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co. 946 West, N W, Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., 1854 Scranton road, N W, Cleveland, O.

## 5354a—Knives (Stereotype)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)

## 5355—Knives (Stop Cutter)

**COES, LORING & CO. (Inc.), Worcester, Mass.** (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.

## Knives (Straw Cutter)

(See Knives, Hay & Corn Cutter)

ANY SIZE, ANY SHAPE OR DESCRIPTION

SOLID STEEL SHEAR KNIVES

TO CUT ANYTHING THAT CAN BE CUT WITH A SHEAR KNIFE

ALSO ROLL TURNING TOOLS, ROLL TURNING PLUGS, HARDENED FORGED STEEL ROLLS, AND TOOL STEEL SPECIALTIES

SAMUEL TRETHEWEY & CO. LTD.

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## 5356—Knives (Tack Machine)

**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)

## 5357—Knives (Tanners' Skiving)

**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)
Foster Bros. & Chatillon Co., Fulton, N. Y.

## 5357a—Knives (Textile Shear)

**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)

## 5358— Knives (Tobacco)

American Cutlery Co., 764 Mather, Chicago, Ill.
**AMERICAN TAP & DIE CO.** ("Nichols Bros."), Greenfield, Mass. (See adv. index, end of book)
Anderson Knife & Bar Co., Anderson, Ind.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Clyde Cutlery Co. (Beech Handle), Clyde, O.
**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Lancaster Machine & Knife Works, Lancaster.
Mack & Co., Rochester, N. Y. N. Y.
Oldham, Joshua & Sons (Ltd.), 112 26th, Brooklyn, N. Y.
Russell, Jno. B. ("Diamond Eagle"), Napanoch, N. Y.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., Cleveland, O.

## 5359— Knives (Veneer)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Bailey & Blendinger Mfg. Co., Woburn, Mass.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
Coe Mfg. Co., Painesville, O.
**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Hiles, C. A., & Co., 14th & Western av, Chicago, Ill.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., Cleveland, O.

## 5360— Knives (Weeding)

Knickerbocker Mfg. Co., Belleville, N. J.

## 5361—Knives (Wood Barking Machine)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)
Dowd, R. J. Knife Works, Beloit, Wis.
Mitts & Merrill, Saginaw, Mich.
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.

## Knives (Wood Flooring Machine)

(See Knives, Wood Working Machine)

## 5362— Knives (Wood Pulp)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Cleveland Machine Knife Co., Cleveland, O.
**COES, LORING & CO. (Inc.),** Worcester, Mass. (See adv. index, end of book)
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Bros. & Co., Fulton, N. Y.

## Knives (Wood Surfacing Machine)

(See Knives, Wood Working Machine)

## Knives (Wood Tenoning Machine)

(See Knives, Wood Working Machine)

## 5363—Knives (Wood Working Machine)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Chicago Knife Works, 228 S Clinton, Chicago, Ill.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
**COES, LORING & CO. (Inc.), Worcester,** Mass. (See adv. index, end of book)
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. J. Knife Works, Beloit, Wis.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Foucart, J. E., Williamsport, Pa.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Philadelphia, Pa.
Mack & Co., Rochester, N. Y.
Simonds, A. A. & Son Co., Dayton, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Taylor Brothers & Co., Fulton, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.
Worden Tool Co., Cleveland, Ohio

## 5364—Knives & Cutters (Serrated)

Rotary Knife & Machine Co., 200 Diamond, Brooklyn, N. Y.

## Knobs (Base)

(See Door Bumpers)

## 5365— Knobs (Carpet)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Wilcox, Crittenden & Co. (Brass Heads, Wrought Nails; also Grommets), Middletown, Conn.

## 5366—Knobs (Drawer & Shutter)

Ives, H. B. Co., New Haven, Conn.
Richards, T. C. Hardware Co. (Porcelain), Winsted, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5367— Knobs (Glass)

Bache, Semon & Co., West & Hubert, New York

## 5367a— Knobs (Porcelain)

**TURNER & SEYMOUR MFG. CO,** Torrington, Conn. (See adv. index, end of book)

## 5368— Knobs (Pot Cover)

Bogert & Hopper Co. ("Handy"), 162 William, New York
Estes, E. B. & Sons ("Handy"), 74 Warren, New York
Graham & Berwin ("Indian Head", "Grawin", "Ideal", "Yankee"), 148 Chambers, New York

## 5369— Knobs (Stove)

Stover Mfg. Co. ("Ideal," Nickel Plated Wire, etc.), Freeport, Ill.

## 5369a—Knobs (Wooden)

Bogert & Hopper ,Base, Bird Cage, Closet Door, Drawer, Cover, etc.), 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York

## 5370— Knockers (Door)

Janusch Mfg. Co., 481 E 140th, New York
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5371— Knuckles (Steel)

American Steel Foundries (Open Hearth), Commercial National Bank bldg, Chicago, Ill.
Buckeye Steel Castings Co. (Open Hearth), Columbus, O.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Philadelphia, Pa.
Gould Coupler Co., 345 5th av, New York
National Car Coupler Co. ("Hinson Emergency"), Monadnock blk, Chicago, Ill. Works: Attica, Ind.
National Steel Casting Co., Montpelier, Ind.
Railway Appliances Co. ("Gilman Brown" Emergency), Old Colony bldg, Chicago, Ill.

## 5372— Knuckles (Steering)

Irvington Mfg. Co. (Drop Forged), Irvington, N. J.
Smith, A. O. Co. (Drop Forged), Milwaukee, Wis.

## 5373— Knurl Sets

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 5374— Knurls

Braunsdorf-Mueller Co., Elizabeth, N. J.
Welch, Thos. F. Co., 55 Sudbury, Boston, Mass.

## 5375— Kominuters

Smidth, F. L. & Co., 50 Church, New York

## 5376— Krushite

Frenier & Son (For Sawing Stone), Rutland, Vt.

## 5377— Kryolith

Penna. Salt Mfg. Co. (of Greenland), 115 Chestnut, Phila., Pa.

## 5378— Label Mfrs.

American Label Co., 34 Cooper sq, New York
American Label Mfg. Co., Baltimore, Md.
Barrett Label Co., Kalamazoo, Mich.
Carrington, Geo. S., 1719 W Van Buren, Chicago, Ill.
Chicago Label & Box Co., 312 N May, Chicago, Ill.
Chicago Tape & Label Co. (Linen), 521 N Spaulding, Chicago, Ill.
Conkey, W. B. Co., Hammond, Ind.
Dennison Mfg. Co., Boston, Mass.
Gair, Robt. Co., Wash'n cor Plymouth, Brooklyn, N. Y.
Gugler Lithographic Co. (Lithographed, etc.), Milwaukee, Wis.
Jarden Lithographing Co. (Lithographed Stock Labels), 1215 Race, Phila., Pa.
Kittredge, R. J. & Co., 812 W Superior, Chicago, Ill.
Maryland Color Printing Co., Baltimore, Md.
Mercantile Label Co., Nashua, N. H.
Mott, W. A. Label Co. (Plain & Printed), Norwalk, Conn.
Oval & Koster (Lithographed, etc.), Indianapolis, Ind.
Perfection Mfg. Co. (Florist's), Detroit, Mich.
Reyburn Mfg. Co., 22d & Allegheny av, Phila., Pa.
St. Louis Label Works, St. Louis, Mo.
Scharf Tag, Label & Box Co. (Gum), Ypsilanti, Mich.
Simpson & Doeller Co., Baltimore, Md.
U. S. Printing Co., Cincinnati, O., & Brooklyn, N. Y.

## 5378a—Labels (Gas Meter)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)

## 5379— Labels (Gummed)

Salisbury Mfg. Co., Providence, R. I.
**TABLET & TICKET CO.,** 541-553 Jackson blvd, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

## 5380—Laboratories (Cement Testing)

Allentown Testing Laboratory, Allentown, Pa.
Electrical Testing Laboratories, 80th & East End av, New York
Mollan, E. A., 754 S Oakley blvd, Chicago, Ill.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)

## 5381—Laboratories (Chemical & Physical)

Cox, W. W. (Chemical), Kansas City, Mo.
Electrical Testing Laboratories, 80th & East End av, New York

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**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
Metallurgical Laboratory (Inc.), Pittsburg, Pa.

## 5382—Laboratories (Testing)

Allentown Testing Laboratory (Cement, etc.), Allentown, Pa.
Booth, Garrett & Blair (Cement Plants a Specialty), 404 Locust, Phila., Pa.
Buffalo Testing Laboratory, Buffalo, N. Y.
California Ore Testing Co., 630 Sacramento, San Francisco, Cal.
Detroit Testing Laboratory, Detroit, Mich.
Electrical Testing Laboratories (General Testing & Inspecting), 80th & East End av, New York
Fitzgerald & Bennie Laboratories (Electric Furnace Practice), Niagara Falls, N. Y.
Gascoyne, W. J., 27 S Gay, Baltimore, Md.
Gebhardt, G. F., Armour Institute of Technology, Chicago, Ill.
Glaser, C., 22 S Gay, Baltimore, Md.
Houston Laboratories, Houston, Texas
Hunt, R. W. & Co., The Rookery, Chicago, Ill.
Johnson, McA. Woolsey, Hartford, Conn.
Lathbury, B. B. (Cement), Land Title bldg, Philadelphia, Pa.
Lehigh Valley Testing Laboratory (Cement), Allentown, Pa.
Lincoln, E. S., Brookline, Mass.
McKenna, Dr. Chas. F., 50 Church, New York
Mead Testing Laboratories, Allentown, Pa.
New York Testing Laboratory, 30 Church, New York. Laboratory, Maurer, N. J.
Ohio Testing Laboratory, Columbus, Ohio
Penniman & Browne, 213 Courtland, Baltimore, Md.
Pittsburg Testing Laboratory (Ltd.), 325 Water, Pittsburg, Pa.
Rome Testing Laboratory, Rome, Ga.
St. Louis Sampling & Testing Works (Ores, Fuels, etc.), 1225 Spence, St. Louis, Mo.
Souther, Henry Engineering Co., Hartford, Conn.
Spackman, Henry S. Engineering Co., 42 N 16th, Phila., Pa.
Wiedemann, H. E., St. Louis, Mo.

## 5383—Laboratory Apparatus & Supplies

Bausch & Lomb Optical Co., Rochester, N. Y.
Braun Corporation, Los Angeles, Cal.
Braun-Knecht-Heimann Co., San Francisco, Cal.
Buffalo Dental Mfg. Co., Buffalo, N. Y.
Chicago Apparatus Co. (For Educational Institutions, etc.), 557 W Quincy, Chicago, Ill.
Eimer & Amend, 205 3d av, New York
Gaertner, Wm. & Co., 5349 Lake av, Chicago, Ill.
Greiner, Emil Co., 45 Cliff, New York
Heil, Henry Chemical Co., St. Louis, Mo.
HOWARD & MORSE (Sieve Agitators, Vicat Needles, Penetrometers & Testing Sieves, etc.), 46 Fulton, New York. (See adv. index, end of book)
International Instrument Co., Cambridge, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Sargent, E. H. & Co. (Especially for Sugar Factories), 143 Lake, Chicago, Ill.
Scientific Materials Co., Pittsburg, Pa.
Thomas, Arthur H. Co., 12th & Walnut, Phila., Pa.

## 5384—Laboratory Wood Work

Grand Rapids Hand Screw Co. (Special Work), Grand Rapids, Mich.

## Lace Leather

(See Belt Lacing)

## 5385— Lacquer Mfrs.

White Lead & Color Wks., Detroit, Mich.
American Lacquer Co., Bridgeport, Conn.
Apothecaries Hall Co., Waterbury, Conn.
Ault & Wiborg Co., Cincinnati, O.
Barrett, M. L. & Co. ("Swastika"), 219 E Lake, Chicago, Ill.
Celluloid Zapon Co. ("Zapon" Jet Black), Stamford, Conn.
Chesapeake Oil Co., Baltimore, Md.
Chicago Wood Finishing Co., Chicago, Ill.
Cooper, Chas. & Co., 194 Worth, New York
Cullen, F. C. & Co., 164 Dearborn, Chicago, Ill.
Durlacque Mfg. Co., St. Louis, Mo.
Egyptian Lacquer Mfg. Co., Rahway, N. J.
Ernecke & Sohnstein Co., 1509 N Halsted, Chicago, Ill.
Eureka Pneumatic Spray Co. (Lacquer Enamels), 276 Spring, New York
Feigel, M. & Bro. (Importers), 80 W Houston, New York
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Glidden Varnish Co., Cleveland, O.
Hommel, O. Co., Pittsburg, Pa.
Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Levett Mfg. Co., 407 Canal, New York
Lucas, Jno. & Co., 322 Race., Phila., Pa.
Maas & Waldstein Co. ("Dead Black"), 100 William, New York
Maier's, John G. Sons ("Maier's Silver for Cans), Baltimore, Md.
Moller & Schumann, Marcy & Flushing avs, Brooklyn, N. Y.
New Era Lustre Co. ("Verde Antique", "New Era" Metal Finishes), New Haven, Conn.
Nikolas, G. J. & Co. ("Nikolas"), 1227 W Van Buren, Chicago, Ill.
O'Brien Varnish Co. (Flat Back), South Bend, Ind.
Schlegel, Oscar Mfg. Co., 111 E 12th, New York
Standard Varnish Works, 29 B'way, New York
Stoeckel, R. E., 2048 Bronx, New York
Toch Bros. (Est. 1848), 320 5th av, New York

## 5386—Lacquering for the Trade

Barlow Mfg. Co., Holyoke, Mass.
Grosback, Wm. & Co., 37 Maspeth av, Brooklyn, N. Y.
W. & S. Mfg. Co., Worcester, Mass.

## 5387—Lacquers (Anti Rust)

Vacuum Varnish & Chemical Co. (Acid-Proof Steel), South Norwalk, Conn.

## 5388—Lacquers (Armature)

Sterling Varnish Co. ("Sterling" Black), Pittsburg, Pa.

## 5389— Lacquers (Canners')

Maier's John G. Sons, Baltimore, Md.

## 5390— Lacquers (Machine)

U. S. GUTTA PERCHA PAINT CO. ("Rice's" Egg Shell Gloss Lacquer), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

## 5391— Lactometers

Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 5392— Lactoscopes

Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 5392a—Ladder Brackets (Steel)

TAYLOR, JAS. L. MFG. CO. (For Painters & Builders), Bloomfield, N. J. (See adv. index, end of book)

## 5392b—Ladder Elevators (Steel, Gloss Enamel)

TAYLOR, JAS. L. MFG. CO. (For Painters & Builders), Bloomfield, N. J. (See adv. index, end of book)

## 5392c—Ladder Extensions with Platforms

TAYLOR, JAS. L. MFG. CO. (For Painters & Builders), Poughkeepsie, N. Y. (See adv. index, end of book)

## 5393—Ladder Rounds (Miners')

Sandusky Tool Co., Sandusky, O.

## 5394— Ladders

American Ladder Co. ("Miller's" Step, Extension, etc.), 1315 W 21st pl, Chicago, Ill.
American Mfg. & Novelty Co. (Of All Kinds), Erie, Pa.
Babcock, W. W. Co., Bath, N. Y.
Bacon & Co. (Inc.) ("Neagora" Extension, Full, etc.), Gasport, N. Y.
Bangor Extension Ladder Co., Bangor, Me.
Berg, Jno. & Bro. (Extension), Wentworth, 50th & 50th av, Chicago, Ill.
Berger Bros. Co. ("Perfection" Extension), 237 Arch, Phila., Pa.
Brand, Geo. Jr., 672 4th, Oakland, Cal.
Brown, Jno. K. & Co., 181 3d av, Brooklyn, N. Y.
Burroughs, W. E. (All Kinds for All Purposes), Mt. Vernon, N. Y.
Bushnell Tank Works (Plain Step & Extension), Bushnell, Ill.
Canton Ladder Co. (Extension), Canton, O.
Chandelier & Art Brass Works (Step, Galvanized Sheet Metal), Richmond, Ind.
Chesboro, Whitman Co., 1167 1st av, New York
Combination Ladder Co., 366 Fountain, Providence, R. I.
Corbett & Co., 429 E 109th, New York
Davenport Ladder Co. (Extension, Fire Combination, etc.), Davenport, Ia.
Drake, M. J., 11 Jefferson, Brooklyn, N. Y.
Excelsior Ladder Co., Elmira, N. Y.
Fox, Geo. S. (Step, Extension, Painters, etc.), 137 N 6th, Phila., Pa.
Frizell Ladder Co. ("Dorchester" Extension & "Fairy," "Giant," "Climax" Step, etc.), 135 Granite av, Boston, Mass.
Fuller, H. B. ("Fuller" All Steel Step), St. Paul, Minn.
Goshen Churn & Ladder Co. ("Security"), Goshen, Ind.
Goshen Mfg. Co. ("Boyer's", Step), Goshen, Ind.
Holmquist & Co., 2401 Butler, Chicago, Ill.
Indiana Bent Rung Ladder Co. (Step, Extension, Sectional, etc.), Indiana, Pa.
Indiana Ladder Co., Indiana, Pa.
Lehman Mfg. Co., Beaumont, Tex.
McCABE HANGER MFG. CO. (McCabe Tubular Store), 425 W 25th, New York. (See adv. index, end of book)
Moulton, C. W. & Co. (Extension, Folding, Self-Supporting, Section, Window Cleaning Step, Long Pole, etc.), Somerville, Mass.
Moulton, Henry, York Corner, Me.
Newton & Haggerty Ladder Co., Ann Arbor, Mich.
N. Y. Ladder Co., 580 Hudson, New York
Nomandin, N. L. & Co. (Step & Extension), Plano, Ill.
Noyes, W. H., 154 1st, Newark, N. J.
Pease, F. B. Co. (Extension, Step & Common), Rochester, N. Y.
Phila. Ladder Mfg. Co., 9th & Thompson, Phila., Pa.
Pierce, W. E. & Co., Milton, N. H.
Pioneer Metal Mfg. Co. (Step), 98 Jackson boul., Chicago, Ill.
Portland Extension Ladder Co. ("Flying Yankee" Extension, for Railroads, Electric & Telegraph Companies), 130 Orange, Newark, N. J.
Reissler, Andrew, 248 W Houston, New York
Rockaway Ladder Co., Newark, N. J.
Roberts, E. L. & Co. (Step, Extension, etc.), W 22d & Union pl, Chicago, Ill.
Saginaw Ladder Co. (Ltd.) (Combined Step & Extension), Saginaw, Mich.
Specialty Mfg. Co., Titusville, Pa.
Superior Ladder Co., Goshen, Ind.
Tilley, John S., 114 2d, Waterville, N. Y.
Tupper, Jno. (All kinds), Lynn, Mass.
Udell Works (Step & Extension), Indianapolis, Ind.
Union Blind & Ladder Co. (Step, Orchard & Extension), Oakland, Cal.
Wausau Box & Lumber Co. ("O. B." Extension Step), Goshen, Ind.
Whitehurst, R. W. Co., Norfolk, Va.
Young Bros., Worcester, Mass.

## 5395—Ladders (Extension Scaffold)

Burroughs, W. E., Mt. Vernon, N. Y.
Portland Extension Ladder Co., 130 Orange, Newark, N. J.

## 5396—Ladders (Folding Roof)

Danzer Metal Works, Hagerstown, Md.

## 5396a—Ladders ("McCabe" Tubular Store)

McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)

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## 5397—Ladders (Rolling & Trolley)

Allith Mfg. Co. ("Reliable"), W Taylor & S 43d av, Chicago, Ill.
Bicycle Step Ladder Co., 65 Randolph, Chi-
Burroughs, W. E., Mt. Vernon, N. Y. cago, Ill.
Calander, Jno., 148 8th, St. Paul, Minn.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Hunt, Helm, Ferris & Co. (Cannon Ball), Harvard, Ill.
Lane Bros. Co., Poughkeepsie, N. Y.
**McCABE HANGER MFG. CO. (Tubular, etc.)**, 425 W 25th, New York. (See adv. index, end of book)
Martin, S. B. ("Martin's"), Dalton, Ohio
Milbradt Mfg. Co., 1436 N 8th, St. Louis, Mo.
Morley Bros. (Inc.) (Rolling), Saginaw, Mich.
**MYERS, F. E. & BRO. ("Myers"** Cushion Tire), Ashland, O. (See adv. index & branch offices, end of book)
**NEWHALL, HENRY B., 90 West, New York**
Portland Extension Ladder Co. (Trolley), 130 Orange, Newark, N. J.
Putnam & Co. ("Putnam"), 244 Water, New York
**RICHARDS-WILCOX MFG. CO. (Ceiling, Shelf Rolling)**, 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Ricker Mfg. Co., Rochester, N. Y.
Warren, J. D. Mfg. Co., Masonic Temple, Chicago, Ill.

## 5398— Ladders (Steel)

Barnum, E. T., Wire & Iron Works, 82 Washington av, Detroit, Mich.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
Fuller, H. B. (Step), St. Paul, Minn.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 5398a—Ladders (Store, Cushion Tire)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)

## Ladders (Store Sliding)

(See Ladders, Rolling & Trolley)

## 5399—Ladders & Trucks (Firemen's)

Portland Extension Ladder Co. (Safety Trussed), 130 Orange, Newark, N. J.

## 5400—Ladle Sleeves & Nozzles

Swank's, H. Sons (Fire Brick), Johnstown, Pa.

## 5401— Ladles (Babbitt)

Stevens, Frederic B., Detroit, Mich.
Woonsocket Mach. & Press Co., Woonsocket, R. I.

## Ladles (Bessemer Plant)

(See Ladles, Open Hearth & Bessemer Plant)

## Ladles (Cinder Car)

(See Ladles, Slag; also Cars, Hot Metal & Slag)

## 5402—Ladles (Crane or Truck)

Industrial Car Co., West Park, Ohio

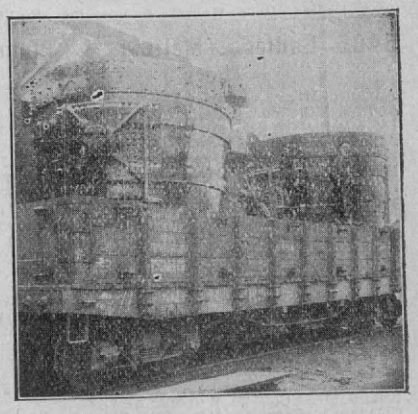
**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5403— Ladles (Foundry)

Byram & Co. (Inc.) (15 to 35,000 Pounds), 435 Guoin, Detroit, Mich.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Carroll-Porter Boiler & Tank Co., Pittsburg, Pa.
Columbiana Boiler Co., Columbiana, O.
Connelly, D. Boiler Co. (Or Hot Metal), Cleveland, O.
Connery & Co., 9th & Master, Phila., Pa.
Etting, E. J. Land Title bldg, Phila., Pa.
Heggie, James G. Joliet, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
McCormick, J. S. Co., Pittsburg, Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
Meehan Boiler & Construction Co., Lowellville, O.
Monarch Engineering & Mfg. Co., Baltimore, Md.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Sharon Boiler Works, Sharon, Pa.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
Stewart Boiler Works, Worcester, Mass.
Union Boiler & Mfg. Co., Lebanon, Pa.



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Union Foundry & Machine Co. (South Side), Pittsburg, Pa.
**WARREN CITY TANK & BOILER** Co. (Riveted), Warren, O. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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## 5404—Ladles (Galvanizing)

**WILFONG, MILLARD F., IRON** Works Co., 52d & Grays av, Philadelphia, Pa. (See adv. index, end of book)

## 5404a— Ladles (Hot Metal)

(See Ladles, Open Hearth & Bessemer Plant)

## 5405—Ladles (Melting & Plumbers')

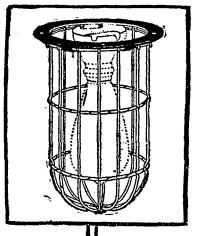
Advance Mfg. Co., Erie, Pa.
Ashton Mfg. Co. ("Red Hot" Wrought Steel), Newark, N. J.
Atha Tool Co. (Charcoal Bloom Iron), Newark, N. J.
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
**BUFFUM TOOL CO. (Plumbers'),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Clark, W. J. Co., Salem, O.
**Clayton & Lambert Mfg. Co., Detroit, Mich.**
**Dicke Tool Co., Downers' Grove, Ill.**
Hardware & Woodenware Mfg. Co., 693 B'way, New York
**Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.**
**Holland Mfg. Co., Erie, Pa.**
Holland, Wm., 60 S Canal, Chicago, Ill.
**Johnson, Wm. (Hedenberg Works), (Plumbers').** Newark, N. J.
Knapp Mfg. Co., 20 Warren, New York
**Lalance & Grosjean Mfg. Co.** (Wrought Steel), 299 B'way, New York
**Loetzer Valve & Mfg. Co.** (Seamless Plate Steel), Monroeton, Pa.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mark Mfg. Co., Evanston, Ill.
New York Hollow Ware Co., 245 Water, New York
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Racine Malleable Wrought Iron Co., Racine, Wis.
Reading Hardware Co., Reading, Pa.
Sayre, L. A. & Co., Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
Wapak Hollow Ware Co., Wapakoneta, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## 5406— Ladles (Mining)

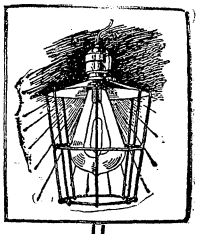
**POWER & MINING MACHINERY CO.** Heavy Steel Plate), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York
Union Iron Works Co. (Matte Ladles), San Francisco, Cal.

## 5407—Ladles (Open Hearth & Bessemer Plant)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Carrol Porter Boiler & Tank Co., Empire bldg, Pittsburg, Pa. Works, Wellsville, O.
Columbiana Boiler Co., Columbiana, O.
Connelly, D. Boiler Co., Cleveland, O.
Connery & Co., 9th & Master, Phila., Pa.
Heggie, James Co., Joliet, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Munroe, R. & Sons Corp., Pittsburg, Pa.
Penna. Engineering Works, New Castle, Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

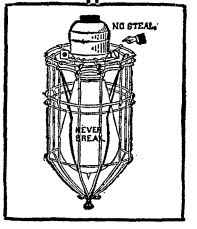



# Lamp Guards



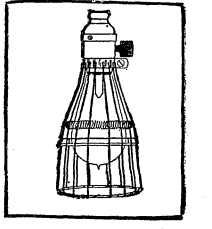
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For Every Style and Size Electric Lamp




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Riter-Conley Mfg. Co., Pittsburg, Pa.
**WARREN CITY TANK & BOILER** Co. (Riveted), Warren, O. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices. end of book)

## 5408— Ladles (Slag)

(See also Ladles, Foundry; also Cars, Hot Metal & Slag)

Union Boiler & Mfg. Co., Lebanon, Pa.
Wellman-Seaver-Morgan Co. ("Dewhurst"), Cleveland, O.

## 5409— Lagging (Hardwood)

Dodge Mfg. Co., Mishawaka, Wis.

## 5409a—"La-Lo" Spray, Liquid Cleaner

Boston La-Lo Spray Co. (Dustlayer, Disinfectant, Deodorizer, etc.), Boston, Mass.

## 5410— Lamp Black Mfrs.

Bihn & Wolff Co., Bridesburg, Phila., Pa.
Binney & Smith Co., 81 Fulton, New York
**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Eddy's, Titus Son, Troy, N. Y.
Lyons, Jas., Evergreen (Borough of Queens), N. Y.
Martin, L. Co. ("Germantown"), 81 Fulton, New York
Salberg Black Co., Ridgway, Pa.
Seaver & Co., 120 Milk, Boston, Mass.
Wilckes, Martin, Wilckes Co. ("Bear Brand"), 135 William, New York

## 5411— Lamp Guards

(See also Guards, Electric Lamp)

**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**MORSE, FRANK W., 516 Atlantic** av, Boston, Mass. (See adv. index, end of book)

## 5412—Lamp Replacers & Cleaners (Incandescent)

**MORSE, FRANK W., 516 Atlantic** av, Boston, Mass. (See adv. index, end of book)

## Lamp Sockets (Incandescent)

(See Sockets, Incandescent Lamp)

## 5412a—Lamp Standards & Brackets (Iron & Bronze)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices. end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 5413—Lamps (Acetylene Gas)

Acetylene Lamp Co., 50 University pl, New York
Davis Acetylene Co. (Arc), Elkhart, Ind.
**FAIRBANKS, MORSE & CO. (Torch),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Klemm & Co. ("Klemm" Arc), 132 N 5th, Phila., Pa.
Miner, Thos. T. W. ("Miner" Globe), 821 Eagle av, New York
Otto, G. M., Oak Lawn, Ill.
**SIMMONS, JOHN CO. ("Baldwin"),** 104 Centre, New York. (See adv. index, end of book

## 5414— Lamps (Alcohol)

Alcohol Utilities Co. ("Pyro"), 40 E 21st, New York
Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
Hero Mfg. Co. (Brass), Gaul & Adams, Phila., Pa.
Quincy Foundry & Novelty Co., Quincy, Ill.


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10 TO 100 TONS CAPACITY

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GALVANIZING KETTLES CHIMNEYS

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## 5415— Lamps (Arc)

Adams-Bagnall Electric Co. ("A-B," Enclosed), Cleveland, O.
American Arc Lamp Co., Kalamazoo, Mich.
Anderson, Albert & J. M. Mfg. Co. ("Monarc," Alternating & Direct Enclosed Incan.), 287a, S Boston, Boston, Mass.
Aurora Electric Co. (Miniature), Aurora, Ind.
Beck Flaming Lamp Co. ("Beck", Flaming Enclosed, Direct or Alternating), 30 Greenwich av, New York
Buckeye Electric Co. ("The Manhattan" Alt & Direct Enclosed Incan), Cleveland, O.
Economy Electric Co., 217 Fulton, Brooklyn, N. Y.
**FAIRBANKS, MORSE & CO.** (Electric), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fort Wayne Electric Works (Inc.) (Alt. & Direct), Fort Wayne, Ind.
**GENERAL ELECTRIC CO. ("Multiple & Series A. C. & D. C.," "T. H.," "M. & K.", "Brush"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Hamburger, Felix ("Siemens," Flaming Enclosed), 1 Union sq, New York
Helios Mfg. Co. ("Continental"), Bridesburg, Phila., Pa.
Ideal Electric & Mfg. Co. ("Ideal," Enclosed for Direct & Alternating Current), Mansfield, O.
Imperial Electric Mfg. Co., 4 Murray, New York
Kraushaar Bronze Mfg. Co. ("Anderson-Smith"), St. Louis, Mo.
Philadelphia Electrical & Mfg. Co. (Open & Enclosed), 1228 N 31st, Phila., Pa.
Pittsburg Electrical & Machine Works (Direct Current), Pittsburg, Pa.
Stave Electrical Co. ("Stavelco," "Perkeo," Semi-Enclosed & Miniature), 131 Hudson, New York
Toerring, C. J. Co. ("Toerring", Enclosed), 2121 Toronto, Philadelphia, Pa.
Volkmer Electric Co., 587 Hudson, New York
Warner Arc Lamp Co. ("Warner," Enclosed, Direct Current), Muncie, Ind.
Western Electric Co. ("Hawthorne" & "Petite" Enclosed), 500 S Clinton, Chicago, Ill.
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Alt. & Direct Enclosed), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 5415a—Lamps (Arc, Acetylene)

(See Lamps, Acetylene Gas, with the Word Arc following their names)

## 5416—Lamps (Arc, Flaming)

Adams-Bagnall Electric Co. ("A. B."), Cleveland, O.
Beck Flaming Lamp Co. ("Beck"), 30 Greenwich, New York
Excello Arc Lamp Co. ("Sunray," "Snowball," Imported), 30 E 20th, New York
Fox-Multax Electric Co., 126 Lafayette, New York
**GENERAL ELECTRIC CO. ("G. I."),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
German-American Elec. Co. ("Grant"), 110 W 14th, New York
Hagstedt, Chas. ("Flamor"), 77 E 52d, New York
Hamburger, Felix Co. ("Jupiter," "Carbone," 'Bivolta," Imported), 1 Union sq, New York
Helios Mfg. Co., Bridesburg, Phila., Pa.
Kiewert, Chas. L. Co. ("Alba"), 39 Cortlandt, New York
Lord Mfg. Co. ("Heavy", "Luminator"), 213 W 40th, New York
Olenin Electric Co., Binghamton, N. Y.
Royal Lamp Co., 141 4th av, New York
Scott Electrical Co. ("Decuple"), Newark, N. J.
Stave Electrical Co. ("Stave"), 131 Hudson, New York
Toerring, C. J. Co., 2119 Toronto, Phila., Pa.
Warner Arc Lamp Co., Muncie, Ind.
Western Electric Co. ("Hawthorn"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 5416a—Lamps (Arc, for Blue Printing & Photography)

**GENERAL ELECTRIC CO.,** Schenectady, N. Y. (See adv. index & branch offices, end of book)
**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)

## 5417— Lamps (Arc, Gas)

(See also Lamps, Incandescent Gas)

Acorn Brass Works ("Lumo"), Aurora, Ill.
American Gas Machine Co. ("American" Inverted), Albert Lea, Minn.
Baxter Lighting Co. ("Baxter," Inverted), 121 N 13th, Phila., Pa.
Bell Arc Light Co. ("Bell", Triple Air), 213 Grand, New York
Cluster Gas Light Co., 67 Bowery, New York
Cody Light Co. ("Cody" Inverted), Detroit, Mich.
Crane, Wm. M. Co. ("Eagle"), 16 W 32nd, New York
Economy Gas Lamp Co., Kansas City, Mo.
Fenster & Ruhe ("Ehrich & Graetz" Inverted), 47 Murray, New York
General Gas Light Co. ("Humphrey"), Kalamazoo, Mich.
Gleason, E. P. Mfg. Co. ("Grey" & "Gleason's" Incandescent Reflecting), 37 Murray, New York
Hamilton Lighting Co., Pittsburg, Pa.
Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
Irby & Gilliland Co. ("Efficient," "Senior"), Memphis, Tenn.
Kern Burner Co., 88 Warren, New York
Klemm & Co., 132 N 5th, Philadelphia, Pa.
Knapp Mfg. Co. ("Mercer"), 20 Warren, New York
McLain-Garwood Co. ("Garwood" Inverted), Canton, O.
National Gas Light Co., Kalamazoo, Mich.
National Stamping Works, La Salle & Michigan, Chicago, Ill.
Northern Light Co. (Incandescent), 451 Greenwich, New York
Phelps Co., 33 State, Detroit, Mich.
Rector Gas Lamp Co., 131 W 31st, New York
Sanitary Specialty Mfg. Co. ("Doorenbos"), 55 N Clinton, Chicago, Ill.
Selas Co., 90 West, New York
Standard Gas Lamp Co., Buffalo, N. Y.
Turner Brass Work, Sycamore, Ill.
United Gas Light & Mfg. Co. ("Cody" Inverted), 380 3d av, New York

## 5418—Lamps (Arc, Gasoline)

(See also Lamps, Gasoline; also Lamps, Incandescent Gasoline)

Acorn Brass Works ("Doran"), Aurora, Ill.
American Gas Machine Co. ("Manson" & "American"), Albert Lea, Minn.
American Lux Light Co., Dunkirk, N. Y.
Best Street Light Co., Canton, O.
Economy Gas Lamp Co., Kansas City, Mo.
Martin & Morehead, 51 W Washington, Chicago, Ill.
National Light, Heat & Power Co. ("Let There Be Light"), 814 W Lake, Chicago, Ill.
National Stamping & Electric Works, 410 Clinton, Chicago, Ill.
Turner Brass Works, Sycamore, Ill.
White Mfg. Co. ("American" & "White Star" Pressure), 192 Michigan, Chicago, Ill.

## 5418a—Lamps (Arc, Machine Shop)

**GENERAL ELECTRIC CO.,** Schenectady, N. Y. See adv. index & branch offices, end of book)

## 5419—Lamps (Arc, Metallic Flame)

**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 5420—Lamps (Arc, Miniature)

**GENERAL ELECTRIC CO.,** Schenectady, N. Y. See adv. index & branch offices, end of book)
Stave Electrical Co. ("Stavelco," "Perke" Semi-Enclosed & Miniature), 131 Hudson, New York

## 5421—Lamps (Arc, Photo-Engraving)

Adams-Bagnall Electric Co., Cleveland, O.
Ariston Electric Co., 135 William, New York
Bogue, Chas. J., Electric Co., 513 W 29th, New York
**COOPER-HEWITT ELECTRIC CO.** ("Vapor"), Hoboken, N. J.
Fox, Arthur W., 83 Schermerhorn, Brooklyn, N. Y.
**GENERAL ELECTRIC CO.,** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Helios Mfg. Co., Bridesburg, Philadelphia, Pa
Menchen, Jos. Electrical Co., 360 W 50th, New York
Thompson, Albert T. & Co., Boston, Mass.
Toerring, C. J. Co., 2119 Toronto, Phila., Pa.
Western Electric Co. ("Aristo"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
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Incandescent Lamps, Tungsten Lamps
For all commercial circuits and voltages

**Westinghouse Electric & Mfg. Co., - Pittsburg, Pa.**

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## 5422—Lamps (Arc, Stage & Stereopticon)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Globe Electric Specialties Co., W 42d, New York
Menchen, Jos. Electrical Co., 360 W 50th, New York
Pennefather, J. S., 105 W 39th, New York
Universal Elec. Stage Lighting Co. ("Kliegel"), 1393 B'way, New York

## 5423—Lamps (Artistic Bronze & Wrought Iron)

**BOLLES, J. E. IRON & WIRE Works, Detroit, Mich.** (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill.** (See adv. index & branch offices, end of book)
**CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill.** (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I.** (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO., Mt. Vernon, N. Y.** (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS, 59 Woodbridge, Detroit, Mich.** (See adv. index, end of book)
**JACKSON, WM. H. & CO., 2-4-6 W 47th, New York.** (See adv. index & branch offices, end of book)
Janusch Mfg. Co., 481 E 140th, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Perelson, L., 194 Hester, New York
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
**PITT, WM. R. COMPOSITE IRON Works, 136 W 24th, New York.** (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 Bway, New York.** (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS, Lake & Dearborn, Chicago, Ill.** (See adv. index, end of book)
**SNEAD & CO IRON WORKS, ft of Pine, Jersey City, N. J.** (See adv. index, end of book)
**STANDARD CO., Railway Exchange bldg, Chicago, Ill.** (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
**TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York.** (See adv. index & branch offices, end of book)
**WINSLOW BROS. CO., Main Office & Works, 4600 Harrison, Chicago, Ill.** (See adv. index, end of book)
Wisconsin Iron & Wire Works, Milwaukee, Wis.

## 5424—Lamps (Automobile, Electric)

Imperial Brass Mfg. Co. ("Imperial", Reflector), 444 S Jefferson, Chicago, Ill.

## 5425—Lamps (Automobile, Gas & Oil)

(See also Lamps, Carriage)

Adams & Westlake Co. (Side & Tail), 319 W Ontario, Chicago, Ill.
American Acetylene Stove Co. (Gas), Masonic Temple, Minneapolis, Minn.
American Lamp Works, 253 W 47th, New York
Angiulli, Luigi (Gas), 182 Centre, New York
Automobile Supply Mfg. Co. ("Jap," "Faro"), 220 Taaffe pl, Brooklyn, N. Y.
Badger Brass Mfg. Co. ("Solar" Headlights), Kenosha, Wis.
Brown, Jno. W. Mfg. Co., Columbus, O.
Castle Lamp Co. ("Mile Ahead" Gas & "Stay Lit" Oil), Amesbury, Mass.
Buffalo Lamp Co., Buffalo, N. Y.
Chicago Auto Lamp Works, 900 W Lake, Chicago, Ill.
**Colt, J. B. Co. (Gas), 21 Barclay, New York**
Corcoran Lamp Co., Detroit, Mich.
Cowles, C. & Co. (Oil), New Haven, Conn.
Cummings-Sprague Co., Detroit, Mich.
Dayton Mfg. Co. ("Avery", Gas), Dayton, O.
Dietz, R. E. Co., 60 Laight, New York
Edmunds & Jones Mfg. Co., Detroit, Mich.
Fowler Lamp & Mfg. Co., 2337 Wabash av, Chicago, Ill.
Gray & Davis ("Bullet"), Amesbury, Mass.
Hall, C. M. Lamp Co., Detroit, Mich.
Ham, C. T. Mfg. Co. (Oil), 731 Oak, Rochester, N. Y.
Hawthorne Mfg. Co., Bridgeport, Conn.
Hine-Watt Mfg. Co. ("Columbia", Gas), 45 Randolph, Chicago, Ill.
Indiana Lamp Co., Connersville, Ind.
Manhattan Auto Parts & Lamp Works Co., 162 W 56th, New York
Moore, M. E. & Son (Gas), Westfield, Mass.
New York Coach & Auto Lamp Co., 794 Tenth av, New York
Post & Lester ("Royal de Luxe"), Hartford, Conn.
Richmond Mfg. Co., Richmond, Ind.
**Rose Mfg. Co. ("Neverout"), 910 Arch, Philadelphia, Pa.**
**Rushmore Dynamo Works (Gas), Plainfield, N.J.**
Scoville & Peck Co. ("Peck", Oil), New Haven, Conn.
**Sibley & Pitman ("Climax"), 26 Warren, New York**
Sprague-Waldo Mfg. Co., Detroit, Mich.
Twentieth Century Mfg. Co. ("La Belle," Gas, & "Grand," & "Mammoth," Oil), 19 Warren, New York
White Mfg. Co., Bridgeport, Conn.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)

## 5426— Lamps (Battery)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Ohio Electric Works, Cleveland, O.
**MORSE, FRANK W. ("Morse" Trouble, for Automobiles & Power Boats), 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)

## 5427— Lamps (Bicycle)

Bridgeport Brass Co., Bridgeport, Conn.
Hine-Watt Mfg. Co., 45 Randolph, Chicago, Ill.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rose Mfg. Co., 910 Arch, Phila., Pa.
Scovill Mfg. Co., Waterbury, Conn.
Twentieth Century Mfg. Co., 17 Warren, New York

## 5428—Lamps (Bridge, Pier & Channel)

Consolidated Steel Metal Works (Electric or Oil), Milwaukee, Wis.
Gray, Peter & Sons, Cambridge, Mass.
Handlon-Buck Mfg. Co., St. Louis, Mo.

## 5429—Lamps (Bronze, Electric)

Duffner & Kimberly Co., 525 W 26th, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 5430— Lamps (Candle)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
American Ring Co., Waterbury, Conn.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 5431— Lamps (Car)

Adams & Westlake Co. (All Kinds), 319 W Ontario, Chicago, Ill.
Bridgeport Brass Co., Bridgeport, Conn.
Dayton Mfg. Co. (For Steam & Electric Cars), Dayton, O.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Howard, Jas. L. & Co., Hartford, Conn.
Klemm & Co. (Oil), 132 N 5th, Phila., Pa.
Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
Safety Car Heating & Lighting Co., 2 Rector, New York
Smith, Chas. G., 352 Pearl, New York
Star Headlight Co. (Oil), Rochester, N. Y.

## 5432—Lamps (Carbon-Filament)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**

## 5433— Lamps (Carriage)

(See also Lamps, Automobile, Gas & Oil)

American Auto Brass Co., Columbus, O.
Brown, Jno. W. Mfg. Co., Columbus, O.
Carey & Co., 243 Race, Phila., Pa.
Castle Lamp Co., Amesbury, Mass.
Corcoran Lamp Co., Detroit, Mich.
Cowles, C. & Co. (Inc.), New Haven, Conn.
Edmunds & Jones Mfg. Co., Detroit, Mich.
English & Mersick Lamp & Foundry, New Haven, Conn.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gray & Davis, Amesbury, Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Illinois Carriage Lamp Co., 224 W Illinois, Chicago, Ill.
Lockwood Co., Newark, N. J.
Richmond Mfg. Co., Richmond, Ind.
Rose Mfg. Co. ("Neverout"), 910 Arch, Phila., Pa.
Smith, Chas. G., 352 Pearl, New York
White Mfg. Co., Bridgeport, Conn.

## Lamps (Christmas Tree, Electric)

(See Lamps, Battery)

## Lamps (Contractors' Portable)

(See Contractors' Portable Light)

## 5434— Lamps (Derrick)

**OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa.** (See adv. index, end of book)

## Lamps (Electric, Christmas Tree)

(See Lights, Desk, Electric)

## 5435—Lamps (Filament Tube)

Straight Filament Lamp Co. ("O'Brien"), Kenilworth, N. J.

## 5436— Lamps (Gasoline)

(See also Lamps, Arc Gasoline)

American Gas Machine Co., Albert Lea, Minn.
American Lux Light Co., Dunkirk, N. Y.
Best Street Light Co., Canton, O.
Boulevard Globe & Lamp Co., 88 Warren, New York
Brilliant Gas Lamp Co. ("Brilliant" & "Halo"), 42 State, Chicago, Ill.
Economy Gas Lamp Co., Kansas City, Mo.
Ford, E. Light Co., Salem, O.
Gloria Light Co., 1274 Wash'n boul, Chicago, Ill.
King Light Co. (Self-Lighting), Peoria, Ill.
Knight Light Co., 720 N Franklin, Chicago, Ill.
Merkel, Herman, 511 Elm, St. Louis, Mo.
National Stamping & Electric Works, 410 S Clinton, Chicago, Ill.
Pitner Gasoline Lighting Co., 22 W Michigan, Chicago, Ill.
Royal Gas Co. ("Royal Gem"), 31 W Kinzie, Chicago, Ill.
Smith, Chas. G., 352 Pearl, New York
Standard-Gillett Light Co. ("Standard"), 9 W Michigan, Chicago, Ill.
Sun Vapor Street Light Co. (Incandescent), Canton, O.
Superior Mfg. Co. (Also Vapor), Ann Arbor, Mich.
Turner Brass Works (Vapor), Sycamore, Ill.

## Lamps (Gauge)

(See Lamps, Locomotive Gauge)

## 5437— Lamps (Gravity)

Economy Gas Lamp Co., Kansas City, Mo.
Ireland & Matthews Mfg. Co. (Gasoline), Detroit, Mich.
White Mfg. Co. ("Reliable" & "White Star"), 192 Michigan, Chicago, Ill.

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## 5438—Lamps (Hand, Engineers' & Machinists')

Gray, Peter & Sons, Cambridge, Mass.
Knapp Mfg. Co., 20 Warren, New York
Hammer & Co. (Malleable Iron), Branford, Conn.
Huebel Mfg. Co. (Malleable Iron), Newark, N. J.
Tower & Lyon Co. (Malleable Iron), 95 Chambers, New York
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 5439— Lamps (Hanging)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Bristol Brass Co., Bristol, Conn.
Dressel Railway Lamp Works (For Office, Station, etc.), 3860 Park av, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Ham, C. T. Mfg. Co. ("Globe"), Rochester, N. Y.
Hammer & Co. ("Hammers" Malleable Iron), Branford, Conn.
Tiffany Studios (Special Designs), 347 Madison, New York

## 5439a—Lamps (Household, Brass)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Manhattan Brass Co., 338 E 28th, New York
Miller, Edward & Co., Meriden, Conn.
Parker, Chas. Co., Meriden, Conn.
Pittsburg Lamp, Brass & Glass Co., Pittsburg, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Scovill Mfg. Co., Waterbury, Conn.
Standard Oil Co. ("Rayo"), 555 W 25th, New York
Waterbury Brass Goods Corp., Waterbury, Conn.

## 5439b—Lamps (Household, Glass)

Central Glass Works, Wheeling, W. Va.
Consolidated Lamp & Glass Co., Coraopolis, Pa.
Eagle Glass & Mfg. Co., Wellsburg, W. Va.
Fostoria Glass Co., Moundsville, W. Va.
Hemingray Glass Co., Covington, Ky.
Phoenix Glass Co., Pittsburg, Pa.
Pittsburg Lamp, Brass & Glass Co., Pittsburg, Pa.
Sneath Glass Co., Hartford City, Ind.
Sunflower Glass Co., Coffeyville, Kans.
Tarentum Glass Co., Tarentum, Pa.
United States Glass Co., Pittsburg, Pa.

## Lamps (Hydro Carbon)

(See Lamps, Incandescent, Hydro-Carbon)

## 5440—Lamps (Incandescent Electric)

American Elec. Lamp Co., 29 W 15th, New York
Anchor Lamp Co., 258 B'way, New York
Banner Electric Co., Youngstown, O.
Bay State Lamp Co., Danvers, Mass.
Boston Incandescent Lamp Co., Danvers, Mass.
Brilliant Electric Co., Cleveland, O.
Bryan-Marsh Co. ("Imperial"), 1 Madison av, New York
Buckeye Electric Co., Cleveland, O.
California Incandescent Lamp Co., San Francisco, Cal.
Capitol Electric Co. ("Hall"), Denver, Col.
Clark Incandescent Lamp Co., Detroit, Mich.
Colonial Electric Co. ("Colonial"), Warren, O.
Columbia Incandescent Lamp Co., St. Louis, Mo.
Consolidated Electric Lamp Co. ("Champion"), Danvers, Mass.
Doubleday-Hill Electric Co., Pittsburg, Pa.
Economical Electric Lamp Co., 25 W B'way, New York
Edison Lamp Dep't ("Edison," "Lowatt"), Harrison, N. J.
Efandem Co. ("Sirius Colloid"), 201 E 16th, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fort Wayne Electric Works, Fort Wayne, Ind.
Fostoria Incandescent Lamp Co. ("Duplex"), Fostoria, O.
Franklin Electric Mfg. Co. ("Fernco," "Novi"), Hartford, Conn.
**GENERAL ELECTRIC CO. ("Edison," "Lowatt"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)


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Wherever an electric lamp is necessary—be it the tiny one-tenth candle-power or the impressive 400 candle-power lamp—we have the size and type of lamp needed.

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The present high efficiency MAZDA lamp requires but one-third the current of the carbon filament lamps commonly in use. General Electric lamps are the result of 33 years' experience in lamp designing.

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General Incandescent Lamp Co., Cleveland, O.
Gilmore Electric Co. ("Twilight"), Boston, Mass.
Hecklinger Electric Co., Warren, O.
Holscher Elec. Mfg. Co. ("Model"), Warren, Ohio
Hygrade Incandescent Lamp Co., Danvers, Mass.
In-Er Globe Lamp Co. (Reflector), Boston, Mass.
Kentucky Electrical Co. (Inc.) ("The Kentucky"), Owensboro, Ky.
Liberty Electric Mfg. Co., Pittsburg, Pa.
Metropolitan Electrical Supply Co. ("Franklin Mazda"), 184 Lake, Chicago, Ill.
Moline Incandescent Lamp Co. ("Moline"), Moline, Ill.
Monarch Electric Mfg. Co., Warren, O.
Munder Electric Co. ("M-E-W"), Springfield, Mass.
National Electric Lamp Co., Cleveland, O.
New York & Ohio Co. ("Packard," "Packard Mogul"), Warren, O.
Novelty Incandescent Lamp Co. ("Elk"), 1733 B'way, New York
Rooney Electric Lamp Co. ("Sun-Star," Regulating), 155 E 23d, New York
Rooney, F. J. Lamp Co., World bldg, New York
Shelby Electric Co., Shelby, O.
Standard Electrical Mfg. Co. ("Star"), Warren, Ohio
Sterling Electrical Mfg. Co., Warren, O.
Sunbeam Incandescent Lamp Co., 500 S Clinton, Chicago, Ill.
Warren Electric & Specialty Co. ("The Peerless"), Warren, Ohio
Western Electric Co. ("Sunbeam"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**

## 5441—Lamps (Incandescent Electric, Car)

Banner Electric Co., Youngstown, O.
Bryan-Marsh Co., 1 Madison av, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Franklin Electric Mfg. Co. ("The Femco"), Hartford, Conn.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Standard Electrical Mfg. Co. ("Star"), Niles, Ohio
Sterling Electrical Mfg. Co., Warren, O.

## 5442—Lamps (Incandescent Gas)

(See also Lamps, Arc, Gas)

American Incandescent Lamp Co., 26 Cortlandt, New York, & Girard Trust bldg, Phila., Pa.
Best Street Light Co., Canton, O.
Columbia Incandescent Lamp Co., Real Estate Trust bldg, Phila., Pa.
Economical Electric Lamp Co. ("Turndown"), 25 W B'way, New York
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
Kentucky Electrical Co., Inc., Owensboro, Ky.
Kern Burner Co., 88 Warren, New York
Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
Leoben Mfg. Co., Philadelphia Bourse, Philadelphia, Pa.
National Light, Heat & Power Co., 814 W Lake, Chicago, Ill.
Peerless Light Co. ("Peerless" Inverted & Upright), Chicago, Ill.
Ramsdell Inverted Gas Lamp Co. ("Ramsdell" Inverted), 1123 B'way, New York
Turner Brass Works, Sycamore, Ill.
Welsbach Co., 1008 Filbert, Phila., Pa.
Wiederhold Light Co., Jersey City, N. J.

## 5443—Lamps (Incandescent Gasoline)

(See also Lamps, Arc, Gasoline)

Akron Gas Lamp Co., Akron, O.
Best Street Light Co., Canton, O.
Canton Incandescent Light Co., Canton, O.
Economy Gas Lamp Co., Kansas City, Mo.
Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
National Light, Heat & Power Co., 814 W Lake, Chicago, Ill.
Pitner Gasoline Lamp Co., 22 W Michigan, Chicago, Ill.
Royal Gas Light Co. ("Royal Gem"), 31 W Kinzie, Chicago, Ill.
Sun Vapor Street Light Co., Canton, O.
Turner Brass Works, Sycamore, Ill.

## 5444—Lamps (Incandescent, Hydro Carbon)

Economy Gas Lamp Co., Kansas City, Mo.
Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
Superior Mfg. Co., Ann Arbor, Mich.

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## 5445—Lamps (Incandescent, Kerosene)

Fenster & Ruhe ("Ehrlich & Graetz" Inverted), 47 Murray, New York
Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
Ober, Thos. K. & Co. ("Keros"), Drexel bldg, Phila., Pa.

## 5446—Lamps (Incandescent Miniature)

American Miniature & Decorative Lamp Co., 184 Lake, Chicago, Ill.
Boehm, H., Youngstown, O.
Brilliant Electric Co., Cleveland, O.
Brooklyn Electric Lamp & Novelty Co., 278 Fulton, Brooklyn, N. Y.
Bryan-Marsh Co., 1 Madison av, New York
Elblight Co. of America (Special Decorative). 120 W 31st, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Columbia Incandescent Lamp Co., St. Louis, Mo.
Gilmore Electric Co., Boston, Mass.
Green & Bauer, Hartford, Conn.
Howard Miniature Lamp Co., Newark, N. J.
Jaeger Miniature Lamp Mfg. Co. ("Jaeger"), Bible House, New York
McCandless, H. W. & Co. ("Empire"), 67 Park pl, New York
Novelty Inc. Lamp Co., Emporium, Pa.
Rooney Electric Lamp Co., 155 E 23d, New York
Tipless Lamp Co., 1733 B'way, New York
Warren Electric & Specialty Co. ("Peerless"), Warren, O.
Wolff, Alfred & Co. (Importers), 29 Park pl, New York

## 5447—Lamps (Incandescent Portable Electric)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**MORSE, FRANK W. ("Morse"), 516** Atlantic av, Boston, Mass. (See adv. index, end of book)
Vote-Berger Co. ("Badger" Adjustable), La Crosse, Wis.

## 5448—Lamps (Incandescent Renewed)

Anchor Lamp Co., 258 B'way, New York
Bay State Lamp Co., Danvers, Mass.
Boston Incandescent Lamp Co. ("Boston"), Danvers, Mass.
Consolidated Electric Lamp Co. ("Pioneer," "Standard," "Champion Class A" New Lamps, Danvers Lamp Co. Refilled Lamps), Danvers, Mass.
Eagle Lamp Co., Danvers, Mass.
Economy Electric Co., Warren, O.
Hill-Wright Electric Co., 105 Reade, New York
Holscher Elec. Mfg. Co. ("Reliance"), Warren, Ohio
Novelty Incandescent Lamp Co. ("Excel"), 1733 B'way, New York
Philadelphia El. Equipment Co., 23 S 16th.
Phoenix Electric Co., Warren, O. Phila., Pa.
Safety Electric Co., 351 Michigan av, Chicago, Ill.
Standard Electric Lamp Co., Newark, N. J.
Sterling Electrical Mfg. Co., Warren, O.

## 5449—Lamps (Incandescent Street Series)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gilmore Electric Co., 625 E 1st, Boston, Mass.

## 5450—Lamps (Incandescent Vapor Gas)

Best Street Light Co., Canton, O.
Canton Incandescent Light Co., Canton, O.
Chicago Solar Light Co. ("Nulite"), 221 S Jefferson, Chicago, Ill
Diamond Light Co., Canton, O.
Economical Electric Lamp Co., 25 W B'way, New York
Economy Gas Lamp Co., Kansas City, Mo.
Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
Sun Vapor Street Light Co., Canton, O.
Superior Mfg. Co., Ann Arbor, Mich.

## 5451—Lamps (Inverted Gas)

American Gas Light Co. ("American"), Kalamazoo, Mich.
Baxter Lighting Co. ("Baxter"), 121 N 13th, Phila., Pa.
Cody Light Co. ("Cody"), Detroit, Mich.
Fenster & Ruhe ("Ehrich & Gratez" German), 47 Murray, New York
General Gas Light Co. ("Humphrey"), Kalamazoo, Mich.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
McLain-Garwood Co. ("Garwood", Arc), Canton, O.
National Light, Heat & Power Co. ("New Century"), 814 W Lake, Chicago, Ill.
Welsbach Co. ("Reflex" Cluster), 1008 Filbert, Phila., Pa.

## 5452—Lamps (Inverted Gasoline)

American Gas Machine Co. ("Hanson" & "American" Hollow Wire System), Albert Lea, Minn.
National Light, Heat & Power Co. ("New Century"), 814 W Lake, Chicago, Ill.

## 5453—Lamps (Locomotive Gauge)

Dressel Railway Lamp Works (For Steam or Water Gauge), 3860 Park av, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gray, Peter & Sons (Water & Steam Gauge, etc.), Cambridge, Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Knapp Mfg. Co. (Steam or Water), 20 Warren, New York
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## Lamps (Malleable Iron)

(See Torches, Malleable Iron)

## 5454—Lamps (Marine ,Oil)

(See also Lamps, Automobile; also Projectors or Searchlights)

American Lamp Co., Detroit, Mich.
American Marine Lamp Mfg. Co., 261 Pearl, New York
Badger Brass Mfg. Co. ("Solar"), Kenosha, Mich.
Bradley & Hubbard Mfg. Co. (Cabin), Meriden, Conn.
Dietz, R. E. Co. ("Paragon"), 60 Laight, New York
Dressel Railway Lamp Works (Revolving Deck Caboose), 3860 Park av, New York
Du Bois Searchlight Co., 220 B'way, New York
Edmonds & Jones Mfg. Co. ("E. & T."), Detroit, Mich.
Gray, Peter & Sons, Cambridge, Mass.
Miller, Edw. & Co. (Cabin), Meriden, Conn.
Page Bros. & Co. (Cabin & Signal), 347 Cambridge, Boston, Mass.
Porter's, Wm. Sons Co. (Cabin & Signal), 23 Vandewater, New York
Rose Mfg. Co. ("Neverout"), 910 Arch, Phila., Pa.
Rushmore Dynamo Works ("Rushmore"), Plainfield, N. J.
Russell & Stoll Co. (Cabin & Signal), 48 Cliff, New York
Russell & Watson (Signal), Buffalo, N. Y.
Scoville & Peck, New Haven, Conn.
Twentieth Century Mfg. Co. ("Twentieth Century"), 19 Warren, New York

## 5454a—Lamps (Mercury Vapor)

**COOPER-HEWITT ELECTRIC CO.,** Hoboken, N. J.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 5455—Lamps (Metallized-Filament)

**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**

## 5456—Lamps (Mine, Acetylene)

Black Diamond Mfg. Co. ("Black Diamond"), 401 Broome, New York
Coffin, Francis H. & Co. ("Scranton"), Scranton, Pa.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**SIMMONS, JNO. CO. ("Baldwin"** 104-110 Centre, New York. (See adv. index, end of book)

## 5457—Lamps (Miners' Safety)

Aloe, A. S. Co. ("Deputy's"), St. Louis, Mo.
American Safety Lamp & Mine Supply Co. ("Reliable"), Scranton, Pa.
Anton, Christopher L., Monongahela, Pa.
Anton, Geo. & Bro. ("Star", "Globe", "Eagle"), Monongahela, Pa.
Anton, John & Son, Monongahela, Pa.
Davis, Johin & Son (Ltd.) (British), Baltimore, Md.
Dunlap, John Co. ("Dunlap's" Seamless), Pittsburg, Pa.
Everhart Brass Works, Scranton, Pa.
Fidelity International Agency, 621 B'way, New York
Grier Bros. Co. ("Star"), Pittsburg, Pa.
Hardsocg Mfg. Co., Ottumwa, Iowa
Hardsocg, Martin Co., N S, Pittsburg, Pa.
Hero Mfg. Co. ("Sunshine", Frostburg, "Monongahela Valley", "Chirry"), Gaul & Adams, Phila., Pa.
Hughes Bros., Scranton, Pa.
Hunt, Alex. E. ("Hunt's" for Kerosene or Whale Oil), Scranton, Pa.
Irving Mfg. & Tool Co., 169 Chambers, New York
Jones, T. R. Co. ("Black Diamond"), Wilkes-Barre, Pa.
Maple City Mfg. Co., Monmouth, Ill.
Portable Electric Safety Light Co. ("Hubbell" Electric Safety), Newark, N. J.
Standard Oil Co. ("Miner's Sunshine"), 525 W 25th, New York
Tunnessen, Wm., Hazleton, Pa.

## Lamps (Motor)

(See Lamps, Automobile, Gas & Oil)

## 5458— Lamps ("Nernst")

**NERNST LAMP CO., Fayette & Garrison pl, Pittsburg, Pa.**

## 5459— Lamps (Night)

Silver & Co. ("Little Beauty", Kerosene), Brooklyn, N. Y.

## 5460— Lamps (Orchestra)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
McLeod, Ward & Co., 27 Thames, New York

## Lamps (Oven)

(See Illuminators, Oven)

## Lamps (Photo Engraving)

(See Lamps, Arc, Photo-Engraving)

## Lamps (Pocket, Electric)

(See Flashlights, Electric Lamp & Lantern)

## 5461— Lamps (Railway)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York
**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
Dayton Mfg. Co., Dayton, O.
Dewey, F. O. Co., 28 Canal, Boston, Mass.
Dietz, R. E. Co. (Track Walkers, Car Inspectors, Conductors, etc), 60 Laight, New York
Dressel Railway Lamp Works, 3860 Park av, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Glazier Headlight Co., Rochester, N. Y.
Gray, Peter & Sons (Conductors' Signal, Switch Tail, etc.), Cambridge, Mass.
Handlan-Buck Mfg. Co. ("Blizzard" "Engine" & "Utility Tail"), 212 N 3d, St. Louis, Mo.
Ohio Lantern Co. ("Baron"), Tiffin, O.
Sherburne & Co., 53 Oliver, Boston, Mass.
Smith, Chas. G., 352 Pearl, New York
Star Headlight Co., Rochester, N. Y.

## 5462—Lamps (Semaphore Signal)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York
Dressel Railway Lamp Wks. (Steel & Tinned), 3860 Park av, New York
Gray, Peter & Sons, Cambridge, Mass.
Star Headlight Co., Rochester, N. Y.

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## 5463—Lamps (Semaphore Swing)

**Consolidated Sheet Metal Works (For Bascule or Lift Bridges), Milwaukee, Wis.**

## 5464—Lamps (Shop Lighting)

**COOPER-HEWITT ELECTRIC CO.,** Hoboken, N. J.

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 5465— Lamps (Signal)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York
Dayton Mfg. Co., Dayton, O.
Dressel Railway Lamp Works (Automatic Engine & "Herculean," "Fassett" & Electric Route, etc.), 3860 Park av, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gray, Peter & Sons, Cambridge, Mass.
Handlan-Buck Mfg. Co. ("Wells," also Engine & Tail), 212 N 3d, St. Louis, Mo.
Kitson Hydro-Carbon Heating & Incandescent Lighting Co., 8th & Willow sts, Phila., Pa.
Mahoney, Dan'l & Sons, Buffalo, N. Y.
Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
Smith, Chas. G., 352 Pearl, New York
Star Headlight Co., Rochester, N. Y.

## 5466— Lamps (Station)

Armspear Mfg. Co., 447 W 53d, New York
Boesch Lamp Co., San Francisco, Cal.
Dressed Railway Lamp Works, 3860 Park av, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gray, Peter & Sons, Cambridge, Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Pritchard Stamping Co., Rochester, N. Y.
Smith, Chas. G., 352 Pearl, New York

## 5467— Lamps (Street)

American Gas Machine Co. ("Hanson" & "American", Gasoline), Albert Lea, Minn.
American Lux Light Co., Dunkirk, N. Y.
**BERGER MFG. CO., Main Office & Works, Canton, O.** (See adv. index & branch offices, end of book)
Best Street Light Co., Canton, O.
Chicago Solar Light Co., 81 5th av, Chicago,
Dietz, R. E. Co., 60 Laight, New York Ill.
Dressel Railway Lamp Works (Gas or Oil), 3860 Park av, New York
Gaumer, John L. Co., 22d & Wood, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Globe Gas Light Co., 79 Union, Boston, Mass.
Globe Light & Heat Co., 150 Michigan av, Chicago, Ill.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Kitson Hydro-Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
Miner, Thos. T. W. ("The Miner"), 823 Eagle av, New York
Penna. Globe Gas Light Co., Broad & Arch, Philadelphia, Pa.
Pritchard Stamping Co., Rochester, N. Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass
White Mfg. Co. ("White Star"), 192 Michigan, Chicago, Ill.

## 5468— Lamps (Switch)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York
Central Track Supply Co., Springfield, O.
Dayton Mfg. Co., Dayton, O.
Dewey, F. O., Co., 28 Canal, Boston, Mass.
Dressel Railway Lamp Wks. (Steel & Tinned), 3860 Park av, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gray, Peter & Sons, Cambridge, Mass.
Handlan-Buck Mfg. Co. ("Prahm," Target, etc.), 212 N 3d, St. Louis, Mo.
Sherbourne & Co., Boston, Mass.
Star Headlight Co., Rochester, N. Y.

## 5469— Lamps (Table)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
Dressel Railway Lamp Works ("Belgian" Stand for Desk or Ticket Office), 3860 Park av, New York
Electric Motor Equipment Co. (Electric Library), Newark, N. J.
Gail-Webb Mfg. Co. (Adjustable, Portable). Buffalo, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Goodwin & Kintz Co., Winsted, Conn.
Miller, Edw. & Co., Meriden, Conn.
Pairpont Corporation, New Bedford, Mass.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Salo Art Metal Co. (Portable, Gas & Electric), 19 Collier, Binghamton, N. Y.
Schroeder, Edw. Lamp Works, Jersey City, N. J.
Standard Oil Co. ("Rayo" Oil), 555 W 25th, New York
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)
Wheeler, M. B. Electric Co., Grand Rapids, Mich.
White Mfg. Co., 192 Michigan, Chicago, Ill.
Wreisner Bros., Dassel, Minn.

## 5470— Lamps (Tantalum)

Brilliant Electric Co., Cleveland, O.
Buckeye Electric Co., Cleveland, O.
Columbia Incandescent Lamp Co., St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fostoria Incandescent Lamp Co., Fostoria, O.
Franklin Electric Mfg. Co., Hartford, Conn.
**GENERAL ELECTRIC CO. ("Meridian", Tantalum),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
National Electric Lamp Co., Cleveland, O.
**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**

## Lamps (Torch)

**(See Torches, Hand)**

## 5471— Lamps (Tungsten)

American Arc Lamp Co. (Shop Cluster), Kalamazoo, Mich.
Brilliant Electric Co., Cleveland, O.
Buckeye Electric Co., Cleveland, O.
Columbia Incandescent Lamp Co., St. Louis, Mo.
Electrical Accessories Co. ("Just," Imported), 1133 B'way, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fostoria Incandescent Lamp Co., Fostoria, O.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Phila. Electrical & Mfg. Co., 1228 N 31st,
Shelby Electric Co., Shelby, O. Phila., Pa.
Sterling Electrical Mfg. Co., Warren, O.
Sunbean Incandescent Lamp Co., 32 W Polk, Chicago, Ill.
Warren Elec. & Specialty Co., Warren, O.
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**

## 5472—Lamps (Turn Down Electric)

Economical Electric Lamp Co. ("Hylo"), 23 W B'way, New York
Rooney Electric Lamp Co. ("Sun Star"), 155 E 23d, New York

## 5473— Lamps (Vapor)

Brilliant Light Co., Kingston, Wis.
**GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York.** (See adv. index & branch offices, end of book)
Moore Electrical Co., Newark, N. J.
National Light, Heat & Power Co., 814 W Lake, Chicago, Ill.
Superior Mfg. Co., Ann Arbor, Mich.

## 5473a—Lamps & Headlights (Gas)

**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 5474— Lances (Corn)

Murphy, Robt. & Sons, Ayer, Mass.

## Lanterns (Artistic Wrought & Bronze)

(See Lamps, Artistic Bronze & Wrought Iron)

## 5475— Lanterns (Bicycle)

Bridgeport Brass Co. ("Search-Light" Oil & Gas), Bridgeport, Conn.
Miller, Edw. & Co., Meriden, Conn.

## 5475a—Lanterns (Bull's Eye)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)

## 5476— Lanterns (Candle)

**WILSON, F. CORTEZ, & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)

## 5477—Lanterns (Cold Blast)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)

## 5477a—Lanterns (Dash Board)

**Lisk Mfg. Co. (Ltd.)** ("Lisk," Hot Blast), Canandaigua, N. Y.
Ohio Lantern Co. ("Baron", Hood Reflector, etc.), Tiffin, O.
Pritchard Stamping Co., Rochester, N. Y.

## 5478— Lanterns (Police)

Ham, C. T. Mfg. Co., Rochester, N. Y.
**Knapp Mfg. Co.** ("Bull's Eye"), 20 Warren. New York
Tower & Lyon Co., 95 Chambers, New York

## 5479— Lanterns (Railway)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
American Lantern Co., Glens Falls, N. Y.
Armspear Mfg. Co. (Wire & Steel Guard), 447 W 53d, New York
**BERGER MFG. CO., THE, Main Office & Works.** Canton, O. (See adv. index & branch offices, end of book)
Boesch Lamp Co., San Francisco, Cal.
Dayton Mfg. Co., Dayton, O.
**Delphos Mfg. Co. ("Standard," Self Lighting), Delphos, O.**
**Dewey, F. O. Co., 28 Canal, Boston, Mass.**
Dietz, R. E. Co. (Hand), 60 Laight, New York
Dressel Railway Lamp Works, 3860 Park av., New York
Embury Mfg. Co., Rochester, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Glazier Headlight Co., Rochester, N. Y.
Glens Falls Lantern Co., Glens Falls, N. Y.
Gray, Peter & Sons (Conductors, Signal, Switch Tail, etc.), Cambridge, Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Handlan, Buck Mfg. Co., St. Louis, Mo.
**Keystone Lantern Co.,** 5033 Portico, Gtn., Philadelphia, Pa.
Loeffelholz Co., 170 Clinton, Milwaukee, Wis.
Ohio Lantern Co. ("Baron"), Tiffin, O.
Prichard Stamping Co., Rochester, N. Y.
Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
Rochester Lantern Co., Rochester, N. Y.
St. Louis Lantern Co., St. Louis, Mo.
Smith, Chas. G., 352 Pearl, New York
Stillman Safety Lamp & Heater Co. ("Stillman," Safety), 95 William, New York
Star Headlight Co., Rochester, N. Y.
Tufts, Nah'l Meter Co., Boston, Mass.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

## 5480— Lanterns (Tubular)

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
Buhl Stamping Co., Detroit, Mich.
Dietz, R. E. Co. (Hand), 60 Laight, New York
Ham, C. T. Mfg. Co. (Hot & Cold Blast), Rochester, N. Y.
Hurley, John A. ("Aladdin"), Bridgeport, Conn.
**Lisk Mfg. Co. (Ltd.)** ("Lisk," Cold Blast), Canandaigua, N. Y.
Marine Lamp Mfg. Co. (Ship), 261 Pearl, New York
Ohio Lantern Co. ("Baron"), Tiffin, O.
Pritchard Stamping Co. ("Prisco" Tin, Cold Blast & Hot Blast), Rochester, N. Y.
**Wheeling Stamping Co.,** Wheeling, W. Va.
Winfield Mfg. Co., Warren, O.

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## 5481— Lariats

**LESCHEN, A. & SONS ROPE CO.,** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)

## 5482— Larries

Alliance Machine Co., Alliance, Ohio
Anderson, W. H. Tool & Supply Co. (For Stone & Timber), 14 Macomb, Detroit, Mich.
**ATLAS CAR & MFG. CO. (Electric** Car), 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)
Caldwell Mining Car & Foundry Co. (Coke Oven), Caldwell, O.
Connellsville Machine & Car Co., Connellsville, Pa.
Goodman Mfg. Co. (Electric), Halsted & 48th pl, Chicago, Ill.
Helmick Foundry & Machine Co. (Coke Oven Charging), Fairmont, W. Va.
**JEFFREY MFG. CO. (Coke Oven),** Columbus, O. (See adv. index & branch offices, end of book)
Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
Phillips, Mine & Mill Supply Co. (Coke Oven), Pittsburg, Pa.
Scottdale Fdry. & Machine Co. (Electric Coal & Coke Oven Charging), Scottdale, Pa.

## 5483— Latches (Barn Door)

Albany Hardware Specialty Mfg. Co. ("Whitcomb"), Albany, Wis.
Allith Mfg. Co. ("Allith"), W. Taylor c S 43d av, Chicago, Ill.
**ARCADE MFG. CO. ("Rex"), Free-**port, Ill. (See adv. index, end of book)
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Burgess-Norton Mfg. Co., Geneva, Ill.
Cronk & Carrier Mfg. Co. (Steel), Elmira, N. Y.
Hardware Specialty Mfg. Co. ("H. W." for Barn, Box Stalls, Corn Cribs, etc.), Anderson, Ind.
Hunt, Helm, Ferris & Co. ("Harvard" & "Star" Automatic), Harvard, Ill.
Kohler, F. E. & Co., Canton, O.
Larimer Mfg. Co., Eola, Ill.
Lawrence Bros. ("Lawrence" Wrought Steel), Sterling, Ill.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Louden Machinery Co., Fairfield, Ia.
Lyons Mfg. Co. ("Petersen"), Lyons, Ia.
National Mfg. Co. (All Steel), Sterling, Ill.
Peck, C. A., Hardware Mfg. Co. ("Gem"), Berlin, Wis.
Peck-Hamre Mfg. Co. ("Gem," "Security," "Jewell"), Berlin, Wis.
Penn Hardware Co., Reading, Pa.
Porter, J. E., Co., Ottawa, Ill.
Reading Hardware Co., Reading, Pa.
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Safety Door Hanger Co., Ashland, O.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co., Freeport, Ill.
Stowell Mfg. & Fdry Co., So. Milwaukee, Wis.
Wagner Mfg. Co. ("Daisy"), Cedar Falls, Ia.
Weller Hardware & Foundry Co., Horseheads, N. Y.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wrightsville Hdw. Co. (Wrought), Wrightsville, Pa.

## 5484— Latches (Cupboard)

Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

## 5485— Latches (Fire Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
**RICHARDS - WILCOX MFG. CO.** (Steel), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Slaymaker, S. R., Lancaster, Pa.
Stover Mfg. Co., Freeport, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

## 5485a—Latches (Fire Engine House Checking)

Chicago Spring Butt Co. ("Chicago"), 334 Union Park pl, Chicago, Ill.

## 5486—Latches (Foundry Door)

Dayton Malleable Iron Co., Dayton, O.

## 5487— Latches (Gate)

American Foundry & Mfg. Co., St. Louis, Mo.
Brewer Bros. (Wrought, with Catch & Staple), 614 Filbert, Phila., Pa.
Clark Mfg. Co., Buffalo, N. Y.
Climax, J. H. W. Co., Newark, N. J.
G. P. Latch Co. ("G-P" Slide Latch), Nashville, Tenn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.
Penn Hardware Co. Reading Pa.
Reading Hardware Co., Reading, Pa.
**RICHARDS - WILCOX MFG. CO.** ("Wilcox-Ericson", Self-Closing Fire Door). 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Susquehanna Casting Co., Wrightsville, Pa.
Weller Hardware & Foundry Co., Horseheads, N. Y.
Western Brass Mfg. Works (Reversible Office, etc.), 21st & Rockwell, Chicago, Ill.
Wrightsville Hardware Co. ("Shepard's" "St. Louis" Pattern, etc.), Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5488— Latches (Lavatory)

Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.

## 5489— Latches (Night)

Bohannan, Wilson, 760 Lexington, B'klyn, N. Y.
Climax, J. H. W., 275 Passaic, Newark, N. J.
Deitz, Alonzo E. (Tubular Run, Mortise, etc.), 73 Clymer, Brooklyn, N. Y.
Eagle Lock Co., Terryville, Conn.
Fraim, E. T. Lock Co., Lancaster, Pa.
McCormick Mfg. Co. ("Non-Pickable"), Day-
Miller, J. Walter Co., Lancaster, Pa. ton, O.
Miller Lock Co. (Run), 4523 Tacony, Phila..
Penn Hardware Co., Reading, Pa. Pa.
Romer & Co., 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Slaymaker, S. R., Lancaster, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York


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## 5490—Latches (Refrigerator)

**ARCADE MFG. CO. (& "Star" Ice** Box Latches), Freeport, Ill. (See adv. index, end of book)
Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.
Penn Hardware Co., Reading, Pa.
Western Brass Mfg. Works (Brass, Bronze & Malleable Iron Japanned), 21st & Rockwell, Chicago, Ill.

## 5491—Latches (Screen & Storm Door)

Andrews Wire & Iron Works, Rockford, Ill.

## 5491a— Latches (Shutter)

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

## Latches (Sliding Door)

(See Locks & Latches, Sliding Door)

## 5492— Latches (Spring)

Hardware Supply Co. (Small), Grand Rapids, Mich.

## 5493— Latches (Thumb)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Lawrence Bros. ("Lawrence" All Steel), Ster-Penn Hardware Co., Reading, Pa. ling, Ill.
Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Wrightsville Hardware Co., Wrightsville, Pa.

## 5494—Latches (Water Closet)

Ives, H. B. Co., New Haven, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5495—Lath Binders & Trimmers

American Sawmill Machinery Co., Hackettstown, N. J.
Butterworth & Lowe (Inc.) (Combined), Grand Rapids, Mich.
Chase Turbine Mfg. Co., Orange, Mass.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works, Minneapolis, Minn.
Filer & Stowell Co., Milwaukee, Wis.
Garland, M. & Co., Bay City, Mich.
Hall & Brown Woodworking Machine Co., 1917 N. B'way, St. Louis, Mo.
Hill, Wm. E. & Co., Kalamazoo, Mich.
Lane Mfg. Co., Montpelier, Vt.
Lyon Iron Works, Greene, N. Y.
Mitts & Merrill, Saginaw, Mich.
Murray, D. J. Mfg. Co., Wauson, Wis.
Phoenix Mfg. Co. ("Combined"), Eau Claire, Wis.
Standard Saw Mill Machinery Co., Erie, Pa.
Wickes Bros., Saginaw, Mich.

## Lath Bolters

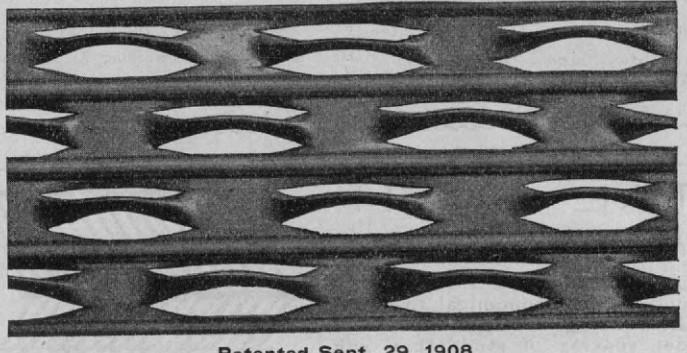
(See Lath Mills & Bolters)

## 5496—Lath (Expanded Metal)

**AMERICAN ROLLING MILL CO.** ("Imperial" & "Spiral"), Middletown, O. (See adv. index & branch offices, end of book)
**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
**CONSOLIDATED EXPANDED METAL** Co.'s, Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Corrugated Bar Co., National Bank of Commerce bldg, St. Louis, Mo.
Eastern Expanded Metal Co., 101 Tremont, Boston, Mass.
**EDWARDS MFG. CO., 545-565 Eg-**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Expanded Metal Engineering Co., 1182 B'way, New York
Expanded Metal Fireproofing Co. of Pittsburg, Keenan bldg, Pittsburg, Pa.
Garry Iron & Steel Co. ("Cleveland"), Niles, Ohio
**GENERAL FIREPROOFING CO., Youngs-**town, O. (See adv. index & branch offices, end of book)
**GOFF, HORNER & CO., Ltd., Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.** ("Milwaukee Diamond"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Northwestern Expanded Metal Co. ("Knobburn"), Old Colony bldg, Chicago, Ill.
**ROEBLING CONSTRUCTION CO.,** Metropolitan Tower, New York. (See adv. index & branch offices, end of book)
Southern Expanded Metal Co., Evans bldg, Washington, D. C.
Sykes Metal Lath & Roofing Co., Niles, O.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)
Western Expanded Metal Co., Canton, O.
Youngstown Iron & Steel Co. ("T. & C."), Youngstown, O.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.


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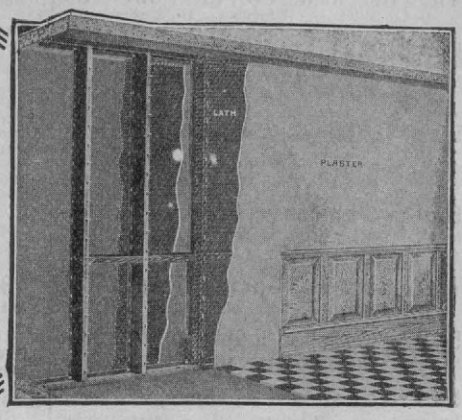
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## 5497— Lath (Ingot Iron)

**GENERAL FIREPROOFING CO.** ("Herringbone"), Youngstown, O. (See adv. index & branch offices, end of book)

## 5498— Lath (Metal)

(See also Lath, Expanded Metal)

**AMERICAN ROLLING MILL CO.** (Truss Metal Lath & Clincher Lath), Middletown, O. (See adv. index & branch offices, end of book)

American Sheet & Tin Plate Co., Frick bldg, Pittsburg, Pa.

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)

**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)

**BURTON, W. J. CO., 161 W. Congress,** Detroit, Mich. (See adv. index, end of book)

**CONSOLIDATED EXPANDED METAL** Co.'s (Square Twist & Diamond), Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Corrugated Bar Co., National Bank of Commerce bldg, St. Louis, Mo.

**EDWARDS MFG. CO., 545-565 Eggleston av,** Cincinnati, O. (See adv. index & branch offices, end of book)

Garry Iron & Steel Co., Niles, O.

**GENERAL FIREPROOFING CO.** ("Herringbone"), Youngstown, O. (See adv. index & branch offices, end of book)

**GOFF, HORNER & CO., Ltd., Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)

Hayes, Geo. Co., 71 8th av, New York

**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

Meurer Bros. Co., 575 Flushing av, Brooklyn, N. Y.

Pearson-Mowbray Co., Spokane, Wash.

National Metal Fabric Co., Plainville, Conn.

National Metal Lath Co., Plainville, Conn.

Penn Metal Ceiling & Roofing Co. ("American" & "Penn"), 23d & Hamilton, Phila., Pa.

Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.

**ROEBLING CONSTRUCTION CO.,** Metropolitan Tower, New York. (See adv. index & branch offices, end of book)

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Schratwieser Fire-Proof Construction Co., 426 3d av, Brooklyn, N. Y.

Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

Sykes Metal Lath & Roofing Co., Niles, O.

**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)

Truss Metal Lath Co. ("Kuhne's"), 147 4th av, New York

Wheeling Corrugating Co., Wheeling, W. Va.

Youngstown Iron & Steel Co. ("T & C"), Youngstown, O.

## 5499—Lath Mills & Bolters

Abbott, D. S. Co. (Combined Gang), Olean, N. Y.

Adams, S. & Son, Rome, N. Y.

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

American Sawmill Machinery Co. ("American"), Hackettstown, N. J.

American Woodworking Mach. Co., Rochester, N. Y.

**Baldwin, Tuthill & Bolton, Grand Rapids, Mich.**

**Butterworth & Lowe, (Inc.), (Combination), Grand Rapids, Mich.**

**Chase Turbine Mfg. Co., Orange, Mass.**

Connor, J. W. & Son (Combined), Orangeville, Pa.

Curtis & Co. Mfg. Co., St. Louis, Mo.

Diamond Iron Works, Minneapolis, Minn.

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Filer & Stowell Co., Milwaukee, Wis.

Frank Machinery Co., Buffalo, N. Y.

Garland, M. Co., Bay City, Mich.

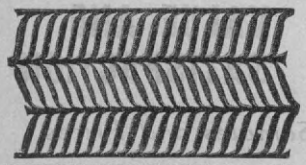
**Hall & Brown Woodworking & Machine Co.,** St. Louis, Mo.

Hill, Wm. E. & Co., Kalamazoo, Mich.

Howell, R. R. & Co., Minneapolis, Minn.

Kline, Lewis T., Alpena, Mich.

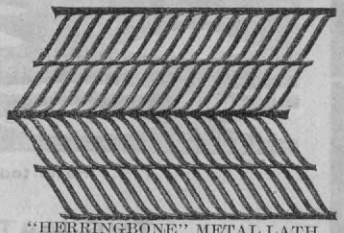

# METAL LATH



"HERRINGBONE" METAL LATH STYLE "A"

## HERRINGBONE EXPANDED STEEL LATH

The most rigid lath made, consequently the easiest to handle, most economical to erect. Will not buckle or sag between studs and allows of wider spacing of studs than any other lath made.



"HERRINGBONE" METAL LATH STYLE "BB"

## HERRINGBONE INGOT IRON LATH

Made from pure iron, insuring it against corrosive action of moisture, acids and gases

**We also make Key Expanded Metal Lath, "Boston" Sheet Steel Lath, Steel Corner Bead, "Double Crimp" Wall Ties, Staples, Tie Wires, etc.**

# THE GENERAL FIREPROOFING COMPANY

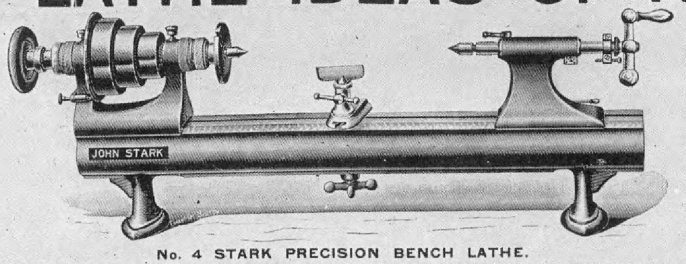
YOUNGSTOWN, OHIO

For Branch Office Addresses, See Advertisers' Index, End of Book

Concrete Reinforcement, See adv. on Page 277. "Allsteel" Lockers See adv. on Page 681.
See also Adv. at Office Furniture ("Allsteel"). Send for Catalogues.


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# LATHE IDEAS OF NOWADAY




No. 4 STARK PRECISION BENCH LATHE.

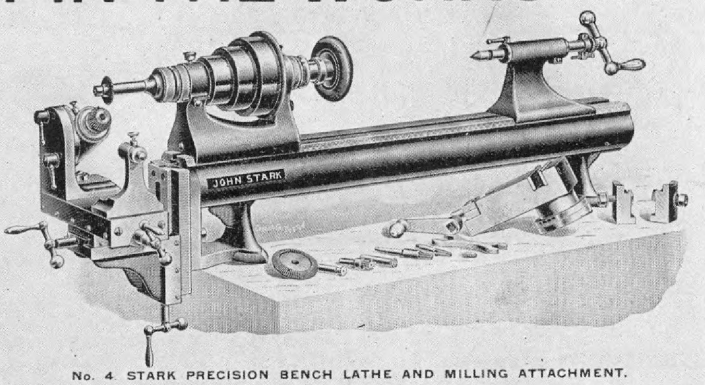
Length of bed 38", distance between centers 20". Lathe swings 9" and chuck capacity for stock from 1-64" to ¾" clear through. Equipped with Stark Patent Anti-Friction Draw-in Spindle and Anti-Fricton Ball Bearing End Thrust, which takes the strain off the bearings and does away with the back geared arrangement.

The Spindles and bearings are made of steel, hardened and ground to perfection, having angles of 3 degrees and 45 degrees. This principle is of great importance and is one of the essential features of the Stark Bench Lathes.

# ECONOMY IN THE WORKSHOP

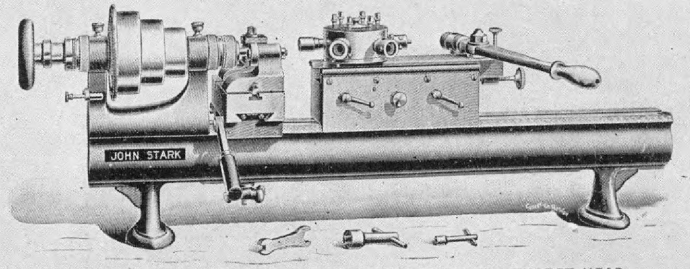
The Milling Attachment, is bolted to the angle iron which is cast with the bed, making it rigid and capable of accomplishing a large range of work. It has a lengthwise feed of 6", in and out feed 2½" and up and down 4¼", with distance between centers 6". The height from bed to center is 3⅞". This attachment takes the same chucks as are used in the lathe head.

We have demonstrated to the trade that spindles made with the taper bearings are more durable, last longer, and give better satisfaction than spindles made upon other principles.




No. 4 STARK PRECISION BENCH LATHE AND MILLING ATTACHMENT.

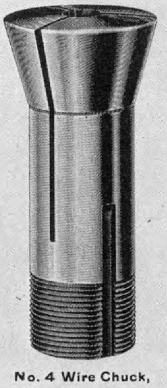
## FOR ENGINEERS, TOOL MAKERS, ELECTRICIANS, ETC.




No. 4. STARK PRECISION BENCH LATHE WITH AUTOMATIC TURRET HEAD AND CUTTING-OFF AND FORMING REST.

The Automatic Turret Head has six ⅝" port holes to receive mills, drills, taps and dies, built strong and rigid, all the bearings and port holes are bushed with hardened steel, taking the place of a screw machine.

The cutting off and forming is suited for a variety of irregular formed pieces. The cutters are turned to the forms required, and only have to be ground on the face when sharpened.



No. 4 Wire Chuck, Capacity of chuck ¼"

## FIVE YEARS AHEAD OF THEM ALL.

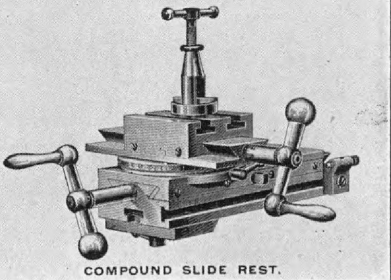
The nose of the spindle has a thread cut 10 pitch, which is hardened and ground to a perfect standard to receive Universal Chucks, and also a supporter for step chucks. This gives a greater advantage when using the Universal chuck as the work may pass clear through the spindle.

# STARK TOOL CO.

MAKERS OF

## PRECISION BENCH LATHES

WALTHAM, MASS., U. S. A.



COMPOUND SLIDE REST.

**HARDLY A MONTH BUT SOME NEW IMPROVEMENT OR SPECIALTY IS INTRODUCED. WHEN IN DOUBT, WRITE STARK. WRITE ANYWAY.**

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# DO YOU KNOW

that we are consulted by thousands of Buyers annually, who request us to *"put them in touch"* with the manufacturers of the best products in all lines of trade and that we are frequently asked to recommend the ONE which we consider to be *the best* in a particular line ... ...

?

## Hendricks' Commercial Register


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Knight Mfg. Co., Canton, Ohio
Lane Mfg. Co. (Combination), Montpelier, Vt.
Lyon Iron Works (Gang), Greene, N. Y.
Mitts & Merrill (Combination), Saginaw, Mich.
Moltz, Jacob J. (Combined), Williamsport, Pa.
Murray, D. J. Mfg. Co., Wausau, Wis.
Newman Machine Co., Greensboro, N. C.
**Novelty Iron Works (G. E. Davis, Prop.), Dubuque, Ia.**
Phoenix Mfg. Co., Eau Claire, Wis.
**RODGERS IRON MFG. CO., Muskegon, Mich.** (See adv. index, end of book)
Smith, H. B. Machine Co., Smithville, N. J.
Smith, Myers & Schnier Co., Cincinnati, O.
Standard Saw Mill Machinery Co., Erie, Pa.
Tomahawk Iron Works, Tomahawk, Wis.
Union Iron Works, Bangor, Me.
United States Machine Co. (Combined or Separate), Williamsport, Pa.
Wheland Machine Works (Combined), Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

## 5499a—Lath (Oblong Mesh)

**CONSOLIDATED EXPANDED METAL** Co.'s (Designated A & B), Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 5500— Lath (Wire)

Clinton Wire Cloth Co., Clinton, Mass.
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich.** (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
**ROEBLING CONSTRUCTION CO.,** Metropolitan Tower, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON W'KS** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** & 11 B'way, New York. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 5501—Lath (Woven Wood)

Acme Woven Wood Lath Co., St. Louis, Mo.

## 5502— Lath & Picket Mills

Abbott, D. S. Co., Olean, N. Y.
Adams, S. & Son, Rome, N. Y.
American Woodworking Mach. Co., Rochester, N. Y.
Butterworth & Lowe, Grand Rapids, Mich.
Chase Turbine Mfg. Co., Orange, Mass.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Filer & Stowell Co., Milwaukee, Wis.
Frank Machinery Co., Buffalo, N. Y.
Garland, M. & Co., Bay City, Mich.
Hill, W. E. & Co., Kalamazoo, Mich.
Howell, R. R. & Co., Minneapolis, Me.
Kline, Lewis T., Alpena, Mich.
Lane Mfg. Co., Montpelier, Vt.
Mitts & Merrill, Saginaw, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Phoenix Mfg. Co., Eau Claire, Wis.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Smith, Myers & Schnier Co., Cincinnati, O.
Union Iron Works, Bangor, Me.
Wickes Bros., Saginaw, Mich.

## 5503— Lathe & Saw

Millers Falls Co. ("Champion", "Goodell"), 28 Warren, New York

## 5503a—Lathes (Axe Handle)

(See Lathes, Handle Turning)

## 5504—Lathes (Axle Turning)

Bridgeford Machine Tool Works (Single & Double Head), Rochester, N. Y.
Johnson, Israel H., Jr., Co. (Inc.), Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), (Double Head), 1600 Hamilton, Philadelphia, Pa.
Spears & Riddle Co., Wheeling, W. Va.
Williams, White & Co. (For Wagon Companies), Moline, Ill.

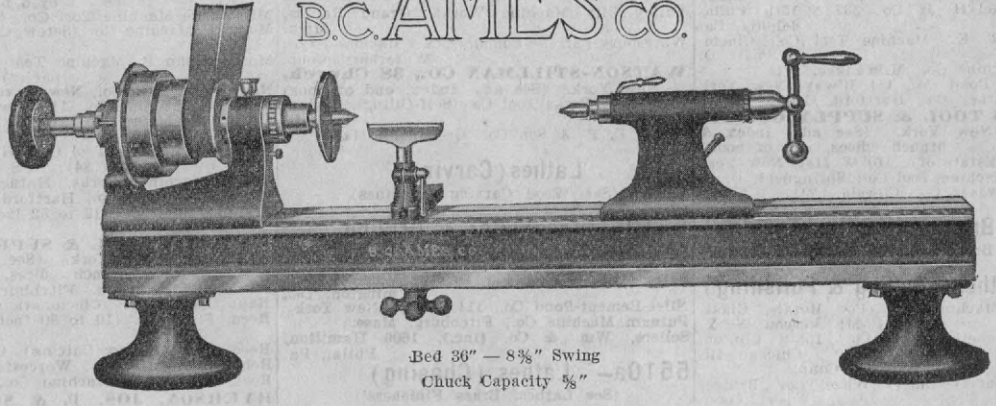
## 5505— Lathes (Barrel)

Strait, H. N. Mfg. Co., Kansas City, Kans.

## 5506— Lathes (Bench)

American Watch Tool Co. ("Webster-Whitcomb Lathes), Waltham, Mass.
**AMES, B. C. & CO., Waltham, Mass.** (See adv. index, end of book)
Carroll-Jamieson Machine Tool Co., Batavia, O.
Cataract Tool & Optical Co., Buffalo, N. Y.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Diamond Machine Co., Providence, R. I.
Elgin Tool Works (Precision), Elgin, Ill.
Faneuil Watch Tool Co., Boston, Mass.
Garvin Machine Co., 137 Varick, New York
Gump, A. W. & Co., Dayton, O.
Hardline Bros. ("Cataract" Precision), 3135 N Lincoln av, Chicago, Ill.
McWilliams, Thomas, Providence, R. I.
Massachusetts Tool Co., Greenfield, Mass.
Moseley Lathe Co., Elgin, Ill.
Niles-Bement-Pond Co., 111 B'way, New York
Oliver, W. W. Mfg. Co., Buffalo, N. Y.
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty,** New York. (See adv. index & branch offices, end of book)
Reed, F. E. Co., Worcester, Mass.
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
Rockford Lathe & Drill Co., Rockford, Ill.
Seneca Falls Mfg. Co. ("Star"), Seneca Falls N. Y.
Sheldon, E. H. & Co., 84 N May, Chicago, Ill.
Sloan & Chace Mfg. Co. (Ltd.) (& Attachments), Newark, N. J.
South Bend Machine Tool Co. (Mfrs.), South Bend, Ind.
**STARK TOOL CO. ("Stark" Machinists'),** Waltham, Mass. (See adv. index, end of book)
Taylor & Fenn Co., Hartford, Conn.
Waltham Machine Works (Precision), Waltham, Mass.
Waltham Watch Tool Co. ("Van Norman" Watchmakers), Springfield, Mass.
Welch, T. F. & Co., 55 Sudbury, Boston, Mass.
Wells, F. E. & Son Co., Greenfield, Mass.

B.C. AMES CO.



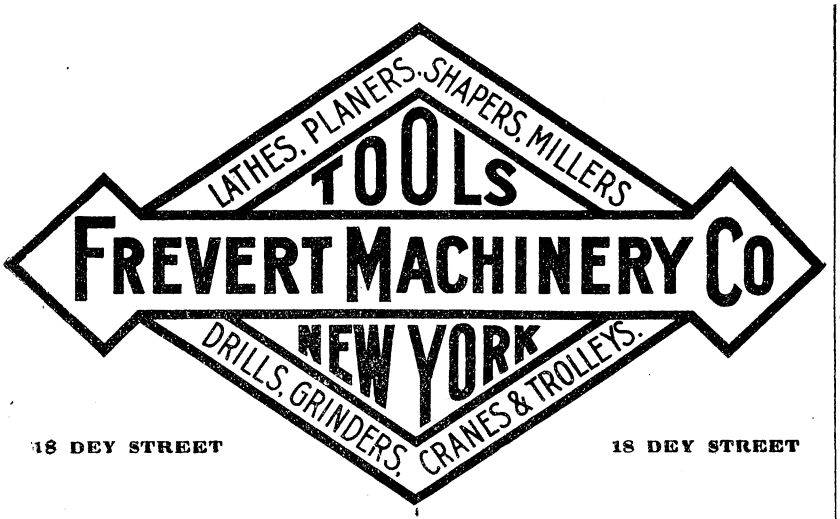
Bed 36" — 8⅜" Swing
Chuck Capacity ⅝"

**The B. C. Ames Co. Bench Lathe** is strong, durable and accurately made, and will do any kind of work within its capacity to meet the most exacting requirements.

Write for Catalog.

WALTHAM, - MASS.

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## Lathes (Bobbin)

(See Spool & Bobbin Machinery)

### 5507—Lathes (Bolt & Stud)

Bradford Machine Tool Co., Cincinnati, O.
Davis, W. P. Machine Co., Rochester, N. Y.
Johnson, Israel H. Jr. Co., Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Reed, F. E. Co. (14 & 16 inch swing), Worcester, Mass.

### 5508—Lathes (Brass Finishers')

American Tool & Machinery Co., Boston, Mass.
American Tool Works Co., Cincinnati, O.
Bardons & Oliver, Cleveland, O.
Dreses Machine Tool Co., Cincinnati, O.
Foster Machine Co. ("Fox" Monitors), Elkhart, Ind.
**FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)**
Johnson, Israel H. Jr. Co., 337 N 15th, Philadelphia, Pa.
Le Blond, R. K., Machine Tool Co., Cincinnati, O.
National Machine Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)**
Pryibil, P. (Estate of), 510 W 41st, New York
Springfield Machine Tool Co., Springfield, O.
Warner & Swasey Co., Cleveland, O.

## Lathes (Broom Handle Turning)

(See Broom Handle Machinery)

### 5509—Lathes (Buffing & Polishing)

Ams, Max Machine Co. (For Metals, Glass, etc.), Mt. Vernon, N. Y.
Bennett-O'Connell-Stevens Co., 15 S Clinton, Chicago, Ill.
Bradley, H. C., Bridgeport, Conn.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Buchanan, Thos. & Co., Cincinnati, Ohio
Buescher Band Instrument Co., Elkhart, Ind.
Builders' Iron Foundry, Providence, R. I.
Chicago Wheel & Mfg. Co. ("Vulcan"), 1101 W Monroe, Chicago, Ill.
**CROWELL, J. GILMER, 296 Taaffe pl, Brooklyn, N. Y. (See adv. index, end of book)**
Diamond Machine Co., Providence, R. I.
Dow Chemical Mfg. Co. ("Dow"), Mansfield, Ohio
Evans, Jno. Sons, 506 N 13th, Phila., Pa.
**FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)**
Goodell-Pratt Co., Greenfield, Mass.
Hanson & Van Winkle Co., Newark, N. J.
Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.
Jenney Electric Mfg. Co. ("Jenney" Electric Grinder, Buffer & Polisher), Anderson, Ind.
Levett Mfg. Co., 407 Canal, New York
Middleditch, Benj., Detroit, Mich.
Northampton Emery Wheel Co., Leeds, Mass.
Oliver, W. W. Mfg. Co., Buffalo, N. Y.
**OSBORN MFG. CO., 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)**
**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)**
Pryibil, P. (Est. of), 512 W 41st, New York
Reichheim, E. P. & Co., 24 John, New York
Roth Bros. & Co., 1402 W Adams, Chicago, Ill.
Rowbottom Machine Co., Waterville, Conn.
Safety Emery Wheel Co., Springfield, O.
Sibley-Houfley Machine Co. ("Garland"), Detroit, Mich.
Springfield Mfg. Co., Bridgeport, Conn.
Superior Corundum Wheel Co., Waltham, Mass
Valley City Machine Works, Grand Rapids, Mich.
Waterbury-Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church, New York. (See adv. index, end of book)**
Webster & Perks Tool Co. (Self-Oiling), Springfield, O.
Wells, F. E. & Son Co., Greenfield, Mass.

## Lathes (Carving)

(See Wood Carving Machines)

### 5510—Lathes (Car & Driving Wheel)

Betts Machine Co. (For Driving Wheels), Wilmington, Del.
Niles-Bement-Pond Co., 111 B'way, New York
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

### 5510a— Lathes (Chasing)

(See Lathes, Brass Finishers')

## Lathes (Chucking)

(See Chucking Machinery)

### 5510b—Lathes (Crank Shaft Turning)

(See Lathes, Shaft Turning; also Crank Pin Turning Machines)

### 5511—Lathes (Cutting Off)

Hurlbut-Rogers Co., South Sudbury, Mass.
Le Blond, R. K., Machine Tool Co., Cincinnati, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.

### 5512— Lathes (Drill)

Diamond Machine Co. (Center), Providence, R. I.
Garvin Machine Co. (Duplex), 137 Varick, New York
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

## Lathes (Driving Wheel)

(See Lathes, Car & Driving Wheel)

### 5513— Lathes (Engine)

American Tool Works Co., Cincinnati, O.
Bagshaw & Field, 317 Cherry, Phila., Pa.
Barker, W. & Co., Cincinnati, O.
Bradford Machine Tool Co. (14 to 36-inch Swing), Cincinnati, O.
Bridgeford Machine Tool Wks., Rochester, N. Y.
Carroll-Jamieson Machine Tool Co. (14 inch), Batavia, O
Champion Tool Works Co. (10 to 18 in. Swing Screw Cutting), Cincinnati, O.
Cincinnati Lathe & Tool Co., Cincinnati, O.
Davis, W. P. Machine Co., Rochester, N. Y.
Fairbanks Co. (12 & 14-inch), Springfield, O.
Fay Machine Tool Co. ("Fay" Automatic), 2d & Glenwood av, Phila., Pa.
Fay & Scott, Dexter, Me.
Fifield, Geo. W. (17 to 84-inch Swing), Lowell, Mass.
Fitchburg Machine Works, Fitchburg, Mass.
Flather & Co. (Screw Cutting, etc.), Nashua, N. H.
**FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)**
Garvin Machine Co., 137 Varick, New York
Geier, P. A. Co. ("Geier" Positive Taper Turning Lathes), Cleveland, O.
Gleason Tool Co., Rochester, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Gray, G. A. Co., Cincinnati, O.
Greaves, Klusman & Co., Cincinnati, O.
Hamilton Machine Tool Co. (14 to 48 inch), Hamilton, O.
Harrington, Edwin & Son Co., 17th & Callowhill, Philadelphia, Pa.
Hendey Machine Co., Torrington, Conn.
Holmes Leather Working Machine Co., 299 Marginal, E B, Boston, Mass.
Johnson, Israel H., Jr., Co., Phila., Pa.
Le Blond, R. K. Machine Tool Co., Cincinnati, Ohio
Lodge & Shipley Machine Tool Co., Cincinnati, Ohio
McCabe, J. J., 30 Church, New York
Mann, Chas. A., 166 Doyle av, Providence, R. I.
Miami Valley Machine Tool Co. (13 1-2 inch by 6 foot), Dayton, O.
Milwaukee Machine Tool Co., Milwaukee, Wis.
Monarch Machine Co. (Screw Cutting), Sidney, Ohio
Morris, John B. Machine Tool Co. ("Schellenbach"), Cincinnati, O.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Oliver Machinery Co. (Gap), Grand Rapids, Mich.
Pittsburg Machine Tool Co. (Heavy, 27 to 76, 27 to 84), N S, Pittsburg, Pa.
Porter Machine Works, Hatfield, Mass.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co. (12 to 32 inch Swing), Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index branch offices, end of book)**
Putnam Machine Co., Fitchburg, Mass.
Rahn, Larmon Co., Cincinnati, Ohio
Reed, F. E. Co. (10 to 30 inch Swing), Worcester, Mass.
Reed, J. B. (Screw Cutting), Cairo, Ill.
Robbins Machine Co., Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)**
Schumacher & Boye (18 to 48 in. Swing), Cincinnati, O.
Sebastian Lathe Co., Cincinnati, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Seneca Falls Mfg. Co. ("Star" foot & power screw cutting), Seneca Falls, N. Y.
Shepard Lathe Co. (Foot & Power), Cincinnati, Ohio
Snyder & Metcalf, Waterford, N. Y.
South Bend Machine Tool Co., South Bend, Ind.
Springfield Machine Tool Co. ("Ideal" 14, 16 & 18 in. Swing), Springfield, O.
Von Wyck Machine Tool Co., Cincinnati, O.
Walcott & Wood Machine Tool Co. (16, 18, 22, 24, 32 & 36 inch Swing & 32 & 36 inch Triple Geared), Jackson, Mich.

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**WALSH'S SONS & CO. (Second Hand),** Harrison, N. J. (See adv. index, end of book)
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
Wickes Bros., Saginaw, Mich.
Willard Machine & Tool Co., Cincinnati, O.
Young Machine & Tool Co., Worcester, Mass.

## 5514—Lathes (Extension Gap)

Barnes Drill Co., Rockford, Ill.
Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.
Rahn-Larmon Co., Cincinnati, O.

## 5514a— Lathes (Face)

(See Lathes, Pattern Makers')

## 5515— Lathes (Facing)

Reed, F. E. Co. (22 & 24-inch Swing), 120 Gold, Worcester, Mass.

## 5516—Lathes (Foot Power)

**Bagshaw & Field, 317 Cherry, Phila., Pa.**
Barnes, W. F. & John Co., Rockford, Ill.
Carroll-Jamieson Machine Tool Co. (9 by 25), Batavia, O.
**Davis, W. P. Machine Co., Rochester, N. Y.**
**Garvin Machine Co., 137 Varick, New York**
Grammes, L. F. & Sons, Allentown, Pa.
Mann, Chas. A., 166 Doyle av, Providence, R. I.
**Niles-Bement-Pond Co., 111 B'way, New York**
**Prentice Bros. Co., Worcester, Mass.**
Purdy Machine Co. (9 & 10 Swing), Ghent, O.
**Quackenbush, H. M., Herkimer, N. Y.**
Reed, F. E. Co. (Plain & Screw Cutting), Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
Sebastian Lathe Co., Cincinnati, O.
Seneca Falls Mfg. Co. ("Star"), Seneca Falls, N. Y.
Shepard Lathe Co. (Turret), Cincinnati, O.
South Bend Machine Tool Co. (Screw Cutting), South Bend, Ind.
Young Machine & Tool Co., Worcester, Mass.

## 5516a— Lathes (Forging)

**(See Lathes, Engine)**

## 5517— Lathes (Forming)

Dreses Machine Tool Co., Cincinnati, O.
Meriden Machine Tool Co., Meriden, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Reed, F. E. Co. (16 inch Swing), Worcester, Mass.

## 5517a—Lathes (Fox Monitor)

**(See Lathes, Brass Finishers')**

## 5517b— Lathes (Gap)

(See Lathes, Engine)

## 5518— Lathes (Gauge)

American Woodworking Machinery Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Fay, J. A. & Egan Co., Cincinnati, O.
**Fay & Scott, Dexter, Me.**
**Goodspeed Machine Co., Winchenden, Mass.**
**Novelty Iron Works (G. E. Davis, Prop.), Dubuque, Ia.**
Smith, H. B. Machine Co. (Brown & Howe's Automatic), Smithville, N. J.
Trevor Mfg. Co., Lockport, N. Y.
Whitney, Baxter D. & Son (Back Knife), Winchendon, Mass.

## 5518a—Lathes (Granite Column)

**(See Machinery, Stone Polishing)**

## 5518b—Lathes (Granite Polishing)

(See Machinery, Stone Poishing; also Lathes Stone Polishing)

## 5519— Lathes (Grinding)

**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Storey General Electric Co., Trenton, N. J.

## 5520—Lathes (Gun Turning & Boring)

(See also Gun Barrel Turning Machines)

Johnson, Israel H., Jr., Co., Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

## 5521— Lathes (Hand)

Brown & Sharpe Mfg. Co., Providence, R. I.
Diamond Machine Co. (Lever & Screw Feed), Providence, R. I.
Dreses Machine Tool Co., Cincinnati, O.
Fitchburg Machine Works, Fitchburg, Mass.
Garvin Machine Co., 137 Varick, New York
Johnson, Israel H, Co., Phila., Pa.
Mann, Chas. A., Providence, R. I.
Meriden Machine Tool Co., Meriden, Conn.
**Niles-Bement-Pond Co., 111 B'way, New York**
Oliver, W. W., Mfg. Co. (Foot & Power), 1483 Niagara, Buffalo, N. Y.
Pratt & Whitney Co., Hartford, Conn.
Reed, F. E. Co. (9 to 26-inch Swing), Worcester, Mass.
Seneca Falls Mfg. Co. ("Star," Foot & Power), Seneca Falls, N. Y.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

## 5522—Lathes (Handle Turning)

American Wood Working Machinery Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Bradley, H. C., Bridgeport, Conn.
Colonial Handle Co., Knoxville, Tenn.
Defiance Machine Works ("Chapin" Automatic), Defiance, O.
Empire Machine Works, Mount Morris, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Gerlach, Peter Co. (Automatic for Turning & Boring for Pail, Fire & Other Short Handles), Columbus rd & Winter, Cleveland, O.
Kline, Lewis T. (Automatic Broom Handle, etc.), Alpena, Mich.
Klotz Machine Co., Sandusky, O.
Loetzer Valve & Mfg. Co. ("Booth" Automatic), Monroeton, Pa.
Mattison, C. Machine Works, Beloit, Wis.
Ober Mfg. Co., Chagrin Falls, O.
Pringle & Brodie Machinery Co., 514 S Canal, Chicago, Ill
Seymour & Whitlock, Newark, N. J.
Smith, H. B. Machine Co., Smithville, N. J.,
Trevor Mfg. Co, Lockport, N. Y.
Waymouth, A. D. & Co., Fitchburg, Mass.
Wilder, Chas. W. (Auger, Paint Brush, File, etc.), Fitchburg, Mass.

## 5523—Lathes (Hard Rubber)

Adamson Machine Co., Akron, O.
Smith, James M. (For Hand Rubber Turning), Seymour, Conn.

## 5523a— Lathes (Ingot)

(See Lathes, Engine)

## 5524— Lathes (Insulator)

Defiance Machine Works (Turning & Threading), Defiance, O.
Trevor Mfg. Co. (Turning & Threading), Lockport, N. Y.

## 5525— Lathes (Jar Ring)

Adamson Machine Co., Akron, O.
Birmingham Iron Foundry (Automatic), Derby, Conn.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Thropp, Wm. R. & Sons Co. (Automatic), Trenton, N. J.

## 5526— Lathes (Knurling)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 5527— Lathes (Laboratory)

Ritter Dental Mfg. Co. ("Columbia" Electric), Rochester, N. Y.

## 5528— Lathes (Last)

Defiance Machine Works, Defiance, O.
Gilman & Son, Springfield, Vt.
Kimball Bros. & Sprague (Blocks & Turning), Brockton, Mass.

## 5529—Lathes (Manual Training)

Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Oliver Machinery Co., Grand Rapids, Mich.
Reed, F. E. Co. (Wood Turning), Worcester, Mass.
Seneca Falls Mfg. Co. ("Seneca Falls"), Seneca Falls, N. Y.
Sheldon, E. H. & Co. (Bench & Speed), 312 N May, Chicago, Ill.
Wells, F. E. & Son Co., Greenfield, Mass.

## 5529a—Lathes (Metal Spinning)

**(See Lathes, Spinning)**

## 5529b— Lathes (Monitor)

(See Lathes, Turret)

## 5530—Lathes (Neck-Yoke & Single-Tree)

Trevor Mfg. Co., Lockport, N. Y.

## 5531—Lathes (Optical Grinding)

Carr, Jos. Co. (Also Discs), 132 N 7th, Phila., Pa.
Cataract Tool & Optical Co., Buffalo, N. Y.

## 5532—Lathes (Pattern Makers')

American Wood Working Machinery Co., Rochester, N. Y.
Atlantic Works, Philadelphia, Pa.
Baldwin, Tuthill & Bolton ("Porter"), Grand Rapids, Mich.
Bentel & Margedant Co., Hamilton, O.
Blount, J. G. Co. (Set-Over Swivel Tailstock, etc.), Everett, Mass.
Cordesman, Rechtin Co., Cincinnati, O.
Dennis Machine Co., Jackson, Mich.
**Fay, J. A. & Egan Co., Cincinnati, O.**
**Fay & Scott, Dexter, Me.**
Fitchburg Machine Works, Fitchburg, Mass.
Frank Machinery Co., Buffalo, N. Y.
Greaves, Klusman & Co., Cincinnati, O.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
National Machine Works, Milwaukee, Wis.
New Haven Mfg. Co., New Haven, Conn.
Oliver Machinery Co. (Face), Grand Rapids, Mich.
Porter, C. O. Machinery Co. ("Porter"), Grand Rapids, Mich.
Purdy Machine Co., Ghent, O.
Putnam Machine Co., Fitchburg, Mass.
Robbins Machine Co., Worcester, Mass.
Rogers, C. B. & Co., Norwich, Conn.
Sidney Tool Co., Sidney, O.
Wells, F. E. & Son Co., Greenfield, Mass.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

## 5533—Lathes (Pearl Button Turning)

Hess Machine Works, 2512 Callowhill, Phila., Pa.

## 5534—Lathes (Photo-Engravers')

Royle, Jno. & Sons (Inc.), Paterson, N. J.

## Lathes (Polishing)

(See Lathes, Buffing & Polishing)

## 5535— Lathes (Precision)

(See also Lathes, Watchmakers)

American Watch Tool Co. (Screw Cutting), Waltham, Mass.
**AMES, B. C. & CO., Waltham, Mass.** (See adv. index, end of book)
Elgin Tool Works (Bench), Elgin, Ill.
Faneuil Watch Tool Co. ("The Rivett"), Brighton, Boston, Mass.
Massachusetts Tool Co., Greenfield, Mass.
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
**STARK TOOL CO. ("Stark," Bench),** Waltham, Mass. (See adv. index, end of book)
Waltham Machine Works (Bench), Waltham, Mass.

## 5535a—Lathes (Projectile Boring & Turning)

(See Lathes, Gun Turning & Boring)

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## 5536—Lathes (Pulley Turning)

American Tool Works Co., Cincinnati, O.
Cincinnati Pulley Machinery Co. ("Street"), Covington, Ky.
Fay Machine Tool Co., 2d & Glenwood av, Phila., Pa.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Prentice Bros. Co., Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
Streit, A. Machine Co., Cincinnati, O.

## 5537—Lathes (Roll Engraving)

Gould & Eberhardt, Newark, N. J.

## 5538—Lathes (Roll Polishing)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Gould & Eberhardt, Newark, N. J.

## 5539—Lathes (Roll Turning)

(See also Machinery, Rolling Mill)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

ROLL LATHES
CHILLED and SAND ROLLS
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

Gould & Eberhardt, Newark, N. J.
Hyde Park Foundry & Machine Co., Hyde Park, Pa.
Mesta Machine Co., Lewis blk, Pittsburg, Pa.
Morgan Construction Co., Worcester, Mass.
National Roll & Foundry Co., Avonmore, Pa.
Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.
Scaife Foundry & Machine Co., Pittsburg, Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
**TRETHEWEY, SAMUEL & CO., Ltd.,** 47th, Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Youngstown Foundry & Machine Co., Youngstown, O.

## 5540— Lathes (Roughing)

Schumacher & Boye, Cincinnati, O.
United Engineering & Fdry. Co., Pittsburg, Pa.

## 5541—Lathes (Screw Cutting)

(See also Lathes, Engine; also Lathes, Turret; also Screw Machines)

American Tool Works Co. (Screw-Cutting Engine), Cincinnati, O.
American Watch Tool Co. (Precision), Waltham, Mass.
Anderson Silk Co., Cincinnati, O.
Automatic Machine Co. (Automatic for Worms & Screws), Bridgeport, Conn.
Barker & Chord Machine Tool Co., Cincinnati, Ohio
Barnes, W. F. & John Co. (Foot Power), Rockford, Ill.
Blaisdell & Co. (High Speed), Worcester, Mass.
Bradford Machine Tool Co., Cincinnati, O.
Bridgeford Machine Tool Co., Rechester, N. Y.
Carroll-Jamieson Machine Tool Co. (9 inch Back Geared), Batavia, O.
Davis, W. P. Machine Co., Rochester, N. Y.
Detrick & Harvey Machine Co., Baltimore, Md.
Draper Machine Tool Co., Worcester, Mass.
Fay Machine Tool Co. (Automatic), 2nd & Glenwood av, Phila., Pa.
Fay & Scott, Dexter, Me.
Fish, H. C. Machine Works, Worcester, Mass.
Fitchburg Machine Works, Fitchburg, Mass.
Flather & Co., Nassau, N. H.
**FREVERT MACHINERY CO., 18** Dey, New York. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Greaves, Klusman & Co., Cincinnati, O.
Hamilton Machine Tool Co., Hamilton, O.
Harrington, E. Son & Co., Philadelphia, Pa.
Hendey Machine Co., Torrington, Conn.
Johnson, Eugene E., Worcester, Mass.
Johnson, Israel H. Jr. Co., Philadelphia, Pa.
Le Blond, R. K. Machine Tool Co., Cincinnati, Ohio
Lodge & Shipley Machine Tool Co., Cincinnati, O.
McCabe, J. J., 30 Chuch, New York
Mann, Chas. A., Providence, R. I.
Monarch Machine Co. (Elgin), Sidney, O.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Perkins, F. S. Co., Lowell, Mass.
Pittsburg Machine Tool Co., Pittsburg, Pa.
Rahn-Larmon Co., Cincinnati, O.
Reed, F. E. Co. (Foot Power), Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sebastian Lathe Co. (Foot), Cincinnati, O.
Sellers, Wm. & Co. (Inc.), (Single Turning & Screw Cutting), 1600 Hamilton, Phila., Pa.
Seneca Falls Mfg. Co. ("Star", Foot), Seneca Falls, N. Y.
South Bend Machine Tool Co. (Foot or Power), South Bend, Ind.
**STARK TOOL CO. ("Stark" Chasing),** Waltham, Mass. (See adv. index, end of book)
Young Machine & Tool Co., Worcester, Mass.

## 5542—Lathes (Shaft Turning)

American Tool Works Co., Cincinnati, O.
Fitchburg Machine Works, Fitchburg, Mass.
Johnson, Israel, Jr., Co., Philadelphia, Pa.
Le Blond, R. K., Machine Tool Co., Cincinnati, O.
Niles-Bement-Pond Co., 111 B'way, New York
Putnam Machine Co., Fitchburg, Mass.
Springfield Machine Tool Co., Springfield, O.
Tindel-Morris Co. ("Tindel Albrecht," Crank-Shaft, etc.), Eddystone, Pa., & Ellwood City, Pa.

## Lathes (Shoe Last Turning)

(See Lathes, Last)

## 5542a—Lathes (Special Double Head Push Nipple)

**MURCHEY MACHINE & TOOL CO.** (For Constant Radius Nipples for Radiators & Nipples), 52 Porter, c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)

## 5543— Lathes (Speed)

American Woodworking Mach'y Co., Rochester,
Blount, J. G. & Co., Everett, Mass. N. Y.
Carroll-Jamieson Machine Tool Co., Batavia, O.
Diamond Machine Co., Providence, R. I.
Fay & Scott, Dexter, Me.
Fitchburg Machine Works, Fitchburg, Mass.
Garvin Machine Co., 137 Varick, New York
Grant Mfg. & Machine Co. ("Spencer"), Bridgeport, Conn.
Grabo, E. O. (For Brass, etc.), 180 Centre, New York
Grimes & Harris, Leominster, Mass.
National Machine Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Oliver Machinery Co. (For Wood), Grand Rapids, Mich.
Oliver, W. W. Mfg. Co. (Jewelers), 1483 Niagara, Buffalo, N. Y.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Reed, F. E. Co. (High Speed, 18 to 20 in. Swing), Worcester, Mass.
Sebastian Lathe Co., Cincinnati, O.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.
Snyder & Metcalf, Waterford, N. Y.
Washburn Shops of the Polytechnic Institute, Worcester, Mass.
Wells, F. E. & Son Co., Greenfield, Mass.
Whitcomb-Blaisdell Machine Tool Co. (High Speed), Worcester, Mass.

## 5544— Lathes (Spinning)

Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Diamond Machine Co., Providence, R. I.
Ferracute Machine Co., Bridgeton, N. J.
Garvin Machine Co., 137 Varick, New York
Grabo, E. O., 180 Centre, New York
Greaves, Kinsman & Co., Cincinnati, O.
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Manville, E. J. Machine Co., Waterbury, Conn.
Meriden Machine Tool Co., Meriden, Conn.
**NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)**
Niles-Bement-Pond Co., 111 B'way, New York
Prybil, P. (Estate of), 514 W 41st, New York
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 5545— Lathes (Spoke)

(See also Lathes, Handle Turning; also Lathes, Wood Turning)

Bentel & Margedant Co., Hamilton, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Humphrey Machine Co., Keene, N. H.
Ober Mfg. Co., Chagrin Falls, O.
Trevor Mfg. Co., Lockport, N. Y.

## Lathes (Spool)

(See Spool & Bobbin Machinery)

## 5545a— Lathes (Staff)

**STARK TOOL CO. ("Stark," Automatic for Turning Staffs & Pinions for Clocks, Watches, etc.), Waltham, Mass. (See adv. index, end of book)**

## 5546—Lathes (Stone Polishing)

Ellison Bros., Frankford, Philadelphia, Pa.
Hinds, Thomas, Malone, N. Y.
Lincoln Iron Works, Rutland, Vt.
Patch, F. R. Mfg. Co., Rutland, Vt.
Putnam Machine Co., Fitchburg, Mass.
St. Cloud Iron Works Co., St. Cloud, Minn.

## 5547— Lathes (Strapping)

Bridgeport Safety Emery Wheel Co., Bridgeport,
Springfield Mfg. Co., Bridgeport, Conn. Conn.

## 5548— Lathes (Treenail)

Trevor Mfg. Co., Lockport, N. Y.

## 5549— Lathes (Trimming)

Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.
Leffler, Chas. & Co., 63 Clymer, B'klyn, N. Y.
Manville, E. J. Machine Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co. Waterbury, Conn.

## 5550— Lathes (Turntable)

Niles-Bement-Pond Co. (With Cross Sliding Turntable), 111 B'way, New York

## 5551— Lathes (Turret)

(See also Screw Machines)

Acme Machine Tool Co., Cincinnati, O.
American Tool Works Co., Cincinnati, O.
American Tool & Machine Co. (Brass Finishers), Boston, Mass.
Bardons & Oliver (All Kinds), 1133 W 9th, Cleveland, O.
Bradford Machine Tool Co., Cincinnati, O.
Bullard Machine Tool Co. (Vertical & Combination Turret), Bridgeport, Conn.
Carroll-Jamieson Machine Tool Co. (14 Inch Back Geared), Batavia, O.
Carter & Hakes Machine Co. ("Blood" Automatic), Winsted, Conn.
Dreser Machine Tool Co. (Universal), Cincinnati, O.
Fay & Scott, Dexter, Me.
Foster Machine Co. (Or Screw Cutting Machines), Elkhart, Ind.
**FREVERT MACHINERY CO., 18** Dey, New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
Gisholt Machine Co. (For Both Bar & Chucked Work), Madison, Wis.
Greaves, Klusman & Co., Cincinnati, O.
Hendey Machine Co. (For Engine), Torrington, Conn.
International Machine Tool Co. ("Libby"), Indianapolis, Ind.
Jones & Lamson Machine Co., Springfield, Vt.
King Machine Tool Co. (Vertical 28 & 34 In.), Cincinnati, O.

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Lodge & Shipley Machine Tool Co., Cincinnati, Ohio
Massey Machine Co. ("Ring", Turret), Watertown, N. Y.
**Meriden Machine Tool Co., Meriden, Conn.**
**National Machine Co., Milwaukee, Wis.**
**NEW BRITAIN MACHINE CO. (Multiple Spindle Automatic), New Britain, Conn.** (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Potter & Johnston Machine Co. (Double Turret Manufacturing), Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York.** (See adv. index & & branch offices, end of book)
Rahn-Larmon Co., Cincinnati, O.
Reed, F. E. Co. (22 to 24-inch Swing), Worcester, Mass.
**RYERSON, JOS. T. & SON, 255S W 16th, Chicago, Ill.** (See adv. index & branch offices, end of book)
Shepard Lathe Co., Cincinnati, O.
Snyder & Metcalf, Waterford, N. Y.
Springfield Machine Tool Co., Springfield, O.
Steinle Turret Machine Co. (Full Swing), Madison, Wis.
Walcott & Wood Machine Tool Co. (22x24-inch will set over Turret on Shears), Jackson, Mich.
Warner & Swasey Co. (Hollow, Hexagon, Turret Screw, etc.), Cleveland, O.
Wells, F. E. & Son Co., Greenfield, Mass.
Wickes Bros. Co., Saginaw, Mich.
Windsor Machine ("Gridley" Multiple Spindle Automatic), Windsor, Vt.
Wood Turret Machine Co. (The Tilted Turret), Brazil, Ind.
Young Machine & Tool Co., Worcester, Mass.

## 5552—Lathes (Variety Turning)

Bentel & Margedant Co., Hamilton, O.
Berlin Machine Co., Beloit, Wis.
Bradley, H. C., Bridgeport, Conn.
Cowdrey, C. H., Machine Works, Fitchburg, Mass.
Kline, Lewis T. (Automatic), Alpena, Mich.
Mattison, C. Machine Works, Beloit, Wis.
Ober Mfg. Co., Chagrin Falls, O.
Pringle & Brodie Machinery Co., 514 S Canal, Chicago, Ill.
Waymouth, A. D. & Co. (Self-Centering & Self-Adjusting, etc.), Fitchburg, Mass.
Wilder, Chas. W. (For Small Turnings of All Kinds), Fitchburg, Mass.

## 5553— Lathes (Veneer)

Coe Mfg. Co., Painesville, O.
Merritt Mfg. Co., Lockport, N. Y.
St. Joseph Iron Works ("St. Joe"), St. Joseph, Mich.

## 5554—Lathes (Vertical Tool)

Bullard Mach. Tool Co., Bridgeport, Conn.

## 5555—Lathes (Watchmakers')

(See also Lathes, Precision)

**American Watch Tool Co. ("Webster-Whitcomb"), Waltham, Mass.**
**Fanuell Watch Tool Co., 1 Brooks, Boston, Mass.**
Hardinge Bros., 3135 N Lincoln av, Chicago, Ill.
**Moseley Lathe Co., Elgin, Ill.** Ill.
**Rivett Lathe Mfg. Co., Brighton, Mass.**
**STARK TOOL CO ("Stark"), Waltham, Mass.** (See adv. index, end of book)
Waltham Machine Works, Waltham, Mass.
**Waltham Watch Tool Co., Springfield, Mass.**

## 5556— Lathes (Winding)

Pittsburg Machine Tool Co., N S, Pittsburg, Pa.
Sommerfeld Machine & Mfg. Co. (For Winding Coils), 220 2d av, Pittsburg, Pa.

## 5557—Lathes (Wood Polishing)

**Bradley, H. C., Bridgeport, Conn.**

## 5558—Lathes (Wood Working)

American Sawmill Machinery Co., Hacketts-town, N. J.
American Wood Working Machy. Co., Rochester, N. Y.
Artistic Wood Turning Works (Automatic), 311 N Sangamon, Chicago, Ill.
Atlantic Works (Inc.), 28th & Grays Ferry rd, Phila., Pa.
**Baldwin, Tuthill & Bolton, Grand Rapids, Mich**
**Barnes, W. F. & John Co., Rockford, Ill.**
**Bentel & Margedant Co. (Spokes, Handles, etc.), Hamilton, O.**
Carey, W. W. Co., Lowell, Mass.
**Carroll-Jamieson Machine Tool Co., Batavia, O**
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
**Cowdry, C. H., Machine Works (Variety Turning), Fitchburg, Mass.**
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Fay & Scott, Dexter, Me.
Greaves, Klusman & Co., Cincinnati, O.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
**Holmes, E. B. Machinery Co., Buffalo, N. Y.**
**National Machine Co., Milwaukee, Wis.**
**New Haven Mfg. Co., New Haven, Conn.**
**Ober Mfg. Co., Chagrin Falls, O.**
**Oliver Machinery Co., Grand Rapids, Mich.**
Porter, C. O. Mach. Co., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
**Pringle & Brodie Machinery Co. (Back Knife Variety Turning), 514 S Canal, Chicago, Ill**
Pryibil, Paul (Est. of), 512 W 41st, New York
Purdy Machine Co., Ghent, O.
Sebastian Lathe Co., Cincinnati, O.
**Seneca Falls Mfg. Co. ("Seneca Falls"), Seneca Falls, N. Y.**
**Sidney Tool Co. ("Defiance"), Sidney, O.**
Smith, H. B. Machine Co., Smithville, N. J.
Steggall, A., Owosso, Mich.
Trevor Mfg. Co. (Turnings up to 8 Inches), Lockport, N. Y.
Valley City Machine Works, Grand Rapids, Mich.
**Waymouth, A. D. & Co. (Variety, etc.), Fitchburg, Mass.**
Wilder, Chas. W., Fitchburg, Mass.

## 5559—Lathes (Worm Threading)

**Automatic Machine Co. (Automatic), Bridgeport, Conn.**

## 5560—Lathes (Yacht Spar)

Trevor Mfg. Co., Lockport, N. Y.

## 5561— Lathes (Zinc)

Midland Foundry & Machine Works Co., 2156 15th, Denver, Colo.
Pacific Tank & Pipe Co. (For Cutting Zinc Shavings), San Francisco, Cal.

## 5562— Laughing Galleries

Ingersoll Construction Co., Pittsburg, Pa.

## Launches

(See Motor Boat, Launch & Yacht Builders)

## 5563— Laundry Dryers

(See also Clothes Dryers)

Adams Laundry Machinery Co., Troy, N. Y.
Chicago Dryer Co., 381 Wabash av, Chicago, Ill.
Dryer Mfg. Co., 124 Lexington, New York
Lotze, A, Sons & Co., Cincinnati, O.
Hill-Canton Dryer Co., Canton, Ohio
Mannen & Esterly Co. ("Manest"), 2247 St. Clair, Cleveland, O.
Metal Fire Proof Clothes Dryer Co., 534 W 58th, New York
Miller, W. Range & Furnace Co., Cincinnati, Ohio
Peck-Williamson Heating & Ventilating Co., Cincinnati, O.
Steel Roill Machine Co., 254 E Madison, Chicago, Ill.
Troy Laundry Machinery Co., 33 Warren, New York, & 23d & La Salle, Chicago, Ill.

## 5564—Laundry Irons (Electric)

(See also Firms in Sad Irons with the Word Electric following their name)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Troy Laundry Machinery Co., 33 Warren, New York, & 23d & La Salle, Chicago, Ill.

## 5564a—Laundry Irons (Gas)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)

## 5565— Laundry Tub Covers

Greason Mfg. Co. (Galvanized Iron), 108 W 99th, New York

## 5566—Laundry Tubs (Artificial Stone)

Adams, E. G., Kingston, N. Y.
Anchor Stone Co., 2937 Lyndale av, S Minneapolis, Minn.
Chicago Granitine Mfg. Co. ("Granitine"), 3224 Shields av, Chicago, Ill.
Hardin, Jno. Co., 4542 Cottage Grove av, Chicago, Ill.
Household Granite Tub Co., New Haven, Conn.
Peerless Granite Co., Town of Union, N. J.
Reilly, J. F. & Co. ("Star" Cement), San Francisco, Cal.
Robinson Stoneware Co., 244 Greenpoint av, Brooklyn, N. Y.
Union Granite Co., Weehawken, N. J.
Weehawken Granite Co., Town of Union, N. J.

## Laundry Tubs (Enameled Iron)

(See Bath Tubs, Enameled Iron)

## 5567—Laundry Tubs (Euclid Stone

Norcross Co., 1264 Riverbed av, Cleveland, O.

## 5568—Laundry Tubs (Glazed Fire Clay)

Gladding, McBean & Co., Crocker bldg, San Francisco, Cal.
**Steiger Terra Cotta & Pottery Works, San Francisco, Cal.**

## Laundry Tubs (Porcelain)

(See Bath Tubs, Porcelain)

## 5569—Laundry Tubs (Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Auld, Conger & Co., Cleveland, O.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Caskie, Samuel, Walnutport, Pa.
Chicago Slate Co., 411 S Clinton, Chicago, Ill.
Cleveland Mantel & Tile Co., Cleveland, O.
East Bangor Consolidated Slate Co., E Bangor, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Hinchey, Patrick, Hydeville, Vt.
Keenan Structural Slate Co., Bangor, Pa.
McKenna, David, Slatington, Pa.
Meadowbrook Slate Co., Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Nelson, N. O. Marble Co., Edwardsville, Ill.
New York Slate Works, 255 E 138th, New York
**North Bangor Slate Co., Bangor, Pa.**
**O'Day Bros., Hydeville, Vt.**
**Ontalaunce Slate Mfg. Co., Lynnport, Pa.**
**Peerless Slate Co., Delta, Pa.**
Pelican Slate Mfg. Co., Pottstown, Pa., & Wind Gap, Pa.
Penna Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 255 E 138th, New York
**Phoenix Slate Co., Windgap, Pa.**
**Provident Slate Co., Slatington, Pa.**
**Scotch Hill Slate Co., Fair Haven, Vt.**
**Slatington Slate Co., Slatington, Pa.**
**Union Soapstone Co., 14 Marshall, Boston, Mass.**
**Williams Slate Co., Arvonia, Va.**

## 5570—Laundry Tubs (Soapstone)

Alberene Stone Co., 223 E 23d, New York
Butler, Philip H. & Co., 25 Haverhill, Boston, Mass.
Maryland Soapstone Co., Baltimore, Md.
Nelson, N. O. Marble Co., Edwardsville, O.
Phoenix Soapstone Co., 116 Nassau, New York
Robinson Stoneware Co., 244 Greenpoint av, Brooklyn, N. Y.
Troy Bros. & Co., 975 Mass av, Rox, Boston, Mass.
Union Soapstone Co., 14 Marshall, Boston, Mass.
Virginia Soapstone Co., Schuyler, Va.

## 5571— Lava

American Lava Co. ("Alco"), Chattanooga, Tenn.
Crescent Burner Mfg. Co., 339 B'way, New York
Quartz Glass & Mfg. Co. (Black), Los Angeles, Cal.
Steward, D. M. Mfg. Co. ("Lavite"), Chattanooga, Tenn.

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## 5572— Lavatories (Ship)

Bishop, Wm. Sons, 205 South, New York
Curtiss Co., 67 Gold, New York
Hodgdon Brass Wks., 162 High, Boston, Mass.
Jenkins Mfg. Co., 20 Vesey, New York
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Sands, Alfred B. & Son Co., 242 Water, New York
Webb, F. W. Mfg. Co., Boston, Mass.

## 5573—Lavatories & Fittings

(For Enamel or Porcelain Lined Iron Lavatories, see Bath Tubs, Enameled Iron)
Adee, Fred. Co., 44 Cliff, New York
American Sanitary Mfg. Co. (Enameled Iron Lavatories), Wheeling, W. Va.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barrett, James Mfg. Co., Boston, Mass.
Berkstresser, Thos. J. Co. (Vitreous Lavatories), 1006 Filbert, Phila., Pa.
Blairsville Enameled Ware Co. (Enameled Iron), Blairsville, Pa.
Cahill Iron Works ("Southern Beauty", Enameled Iron), Chattanooga, Tenn.
Chambers & Co., Newark, N. J.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Dalton-Ingersoll Co., 175 High, Boston, Mass.
Detroit Sanitay Supply Co., Detroit, Mich.
Douglas, John Co., Cincinnati, O.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works, Exeter, N. H.
Federal-Huber Co., Halsted & Fulton, Chicago, Ill.
Fort Pitt Supply Co., 332 2d av, Pittsburg, Pa.
Great Western Pottery Co. ("K. T." Vitreous China), Kokomo, Ind.
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
Humphryes Mfg. Co. (Enameled Iron), Mansfield, O.
Kohler's, J. M. Sons Co. (Enameled Iron Lavatories), Sheboygan, Wis.
McCrum-Howell Co., 103 Park av, New York
McVay & Walker, Braddock, Pa.
Manufacturing, Equipment & Engineering Co. (Individual Range, Wash Bowls, Plain Iron, Galvanized or Vitrified Porcelain Enamel), So. Framingham, Mass.
Maryland Foundry Co. (Enameled Iron), Baltimore, Md.
Mott, J. L., Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co., Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Sanitary & Mfg. Co. (Enameled Iron), Salem, O.
Nelson, N. O., Mfg. Co., St. Louis, Mo.
Peck Bros. & Co., New Haven, Conn.
Pierce, Butler & Pierce Mfg. Co. (Solid Vitreous & Porcelain Enameled), Syracuse, N. Y.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Reading Foundry & Supply Co., 1423 Walnut, Pa.
Rundle Mfg. Co., Milwaukee, Wis.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Smith & Anthony Co., 48 Union, Boston, Mass.
Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburg, Pa.
Watrous Co. ("Watrous," White Metal Lavatory Fittings), Fisher bldg, Chicago, Ill.
Weiskittle, A. & Son Co. (Enameled Iron), Baltimore, Md.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 5574— Lavatory Legs

American Pin Co. (Brass), Waterbury, Conn.
Climax Specialty Co., Ann Arbor, Mich.
Clow Jas. B. & Sons, Chicago, Ill.
Douglas, Jno. Co., Cincinnati, O.
Du Bois, F. N., 342 9th av, New York
Edwardsville Brass Co., Edwardsville, Ill.
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
McCambridge & Cooper Co., Phila., Pa.
Mott, J. L. Iron Works, 118 5th av, New York
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Sanitary Co. ("Paragon" Brass), Cleveland, O.
Warren Brass Co., Warren, O.
Wolverine Brass Works, Grand Rapids, Mich.

## 5575— Lavatory Trimmings

Climax Specialty Co., Ann Arbor, Mich.
Douglas, Jno. Co., Cincinnati, O.
Edwardsville Brass Co., Edwardsville, Ill.
Park & McKay Co., Detroit, Mich.

## 5576— Lawn Furniture

(See Fountains, Vases, Etc.; also Settees & Chairs, Iron; also Settees & Chairs, Lawn; also Rustic Wood Work; also Swings, Lawn)

## 5577— Lawn Mowers

American Die & Tool Co. ("Acme", Ball Bearing Reel & Roller Bearing Wheel), Reading, Pa.
American Lawn Mower Co. ("Favorite," "Advance", "Yale", "Columbia", "Sterling", "New Eclipse", "Pennant", "Liberty", "New Peerless", "Premier", Ball Bearing), Muncie, Ind.
Avery, B. F. & Son ("The Dewey" & "Princess"), Louisville, Ky.
Blair Mfg. Co. (Lawn Mowers' "Easy" Parallel Bearings, will cut borders, mounds, close to walls, fences, etc. "Cyclemower," "Hercules," "Bay State," "Victor," "Mohawk," "Grand Universal," "Giant Universal," "High Wheel Universal," "Universal" all ball or parallel bearings, "Yankee" Parallel bearings only), Springfield, Mass.
Braun, Jno. & Sons, 1615 N 23d, Phila., Pa.
Chadborn & Coldwell Co. ("New Model," "Rival," "O. K.," "Excelsior," "Roller Golf," "Royal Blue" & "Lenox" Ball Bearing, "Invincible," "Golden Glow," "Newburgh"), Newburgh, N. Y.
Clarinda Lawn Mower Co. ("Nodaway Chief") Clarinda, Ia.
Clipper Lawn Mower Co. ("Clipper" Hand & Pony, Cuts Grass Any Height), Dixon, Ill.
Coldwell Lawn Mower Co. ("Lakewood," "Imperial" Hand, Horse & Motor), Newburgh, N. Y.
Dille & McGuire Mfg. Co. (McGuire Ball Bearing), Richmond, Ind.
Eclipse Lawn Mower Co. ("Eclipse" Self-Sharpening), Prophetstown, Ill.
Elwood Lawn Mower Co., Elwood, Ind.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
F. & N. Lawn Mower Co. ("Great Arrow", "Ideal", "Crestlawn", "May Flower", "New American", "Auto", "Famous", "Admiral", "Director", "Baby Grand" All Bearing; "Worthmower", "Victor", "Annex", "Clover Leaf" Plain Bearing), Richmond, Ind.
Granite State Mowing Machine Co. ("Granite State," "Hampshire," "Queen," "New Mystic," "New Rover," "Leader"), Hinsdale, N. H.
Mast Foos & Co. ("Buckeye" Ball Bearing, "Mascot"), Springfield, O.
Ney Mfg. Co., Canton, O.
Phila. Lawn Mower Co. ("Genuine", "Philadelphia", "All Day", "Dewey", "Drexel", "X. X.", "New", "College", "University"), 3107 Chestnut, Phila., Pa.
Reading Hardware Co. ("Reading"), Reading, Pa.
Stearns, E. C. & Co. ("Stearns," Ball Bearing), Syracuse, N. Y.
Supplee Hardware Co. ("Pennsylvania" Ball Bearing, "Continental," "Great American" Ball Bearing, Self Sharpening, "Bellevue" Ball Bearing, "New Quaker," "New Departure," "Girard," "Electric," "Westfield"), 503 Market, Phila., Pa.
Thomas Mfg. Co. ("Thomas," "Sterling," "Majestic," "Banner"), Springfield, O.
Townsend, S. P. & Co. (Lawn Mowers "Lyon," "Spider," "Victor," "Premier," "Essex," "Orange," "Matchless" All Ball Bearing "Townsend" Chain Roller Mower), Orange, N. J.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.** ("W. & B." High Wheel, "W. & B." Plain & Automatic Ball Bearing, "New Diamond" Plain & Ball Bearing, "Diamond Special" Ball Bearing, "W. & B." Junior Plain & Ball Bearing, "New Electric" Plain & Ball Bearing, "New Norka" Plain & Ball Bearing, "Calumet," "Intermediate Gear," "Acme" Ball Bearing, "Bull Dog" Ball Bearing, "Chicago"), Akron, O. (See adv. index & branch offices, end of book)
Worcester Lawn Mower Co. ("Worcester," "Highland," "Homestead" & "Green Mountain," "Elm Park," "Wizard," "Commonwealth," "Mount Tour," "New England," "Tip Top"), Worcester, Mass.

## 5578—Lawn Mowers (Gasoline Motor)

Coldwell Lawn Mower Co., Newburgh, N. Y.

## 5579—Lawn Mowers (Horse)

Chadborn & Coldwell Co. ("New Excelsior"), Newburgh, N. Y.
Coldwell Lawn Mower Co. ("Coldwell's"), Newburgh, N. Y.
Clipper Lawn Mower Co. ("Clipper" Pony, Cuts Grass Any Height), Dixon, Ill.
Phila. Lawn Mower Co., 3107 Chestnut, Phila., Pa.
Supplee Hardware Co. ("25-Inch Pony & "Pennsylvania" Horse, 30 to 38 inches cut), 503 Market, Phila., Pa.
Townsend, S. P. & Co. ("Townsend's" Triple Ratchet), Orange, N. J.

## 5580— Lawn Sprinklers

Allen, W. D. Mfg. Co. ("Mayflower"), 151 Lake, Chicago, Ill.
American Foundry & Mfg. Co. ("Cactus," "Japanese," "Park," "National," "Pacific," "Imperial"), St. Louis, Mo.
**BUFFUM TOOL CO. (Revolving),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Cadwallader, T. ("Champion" Lawn Spray), Cleveland Lock Co., Cleveland, O.
Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Philadelphia, Pa.
Hardware Supply Co. ("Triumph", "Rainbow"), Grand Rapids, Mich.
Haydenville Co., Haydenville, Mass.
Henderson, Peter & Co. ("Waterwitch"), 35 Cortlandt, New York
Hero Mfg. Co. ("Hero"), Gaul & Adams, Phila., Pa.
Hotchkiss, Edward S. ("Whirling", Sprayers), Bridgeport, Conn.
Humphryes Mfg. Co., Mansfield, O.
Kohler, F. E. & Co., Canton, O.
Kupferle, John C., Foundry Co., St. Louis, Mo.
Landers, Frary & Clark ("Crown"), New Britain, Conn.
McGowan, Jno. Co. ("Rival", For Orchards, Gardens, etc.), Cincinnati, O.
Neumeyer, H. F. ("New"), Macungie, Pa.
Noera Mfg. Co. ("Noera", "Waterbury"), Waterbury, Conn.
Novelty Mfg. Co. ("Niagara"), Waterbury, Conn.
Phila. Lawn Mower Co., 3107 Chestnut, Phila., Pa.
Pond, L. C. Co. ("Improved Twin"), Los Angeles, Cal.
Richards-Wilcox Mfg. Co., Aurora, Ill.
Sherman, H. B. Mfg. Co. (Also Rose Sprinklers), Battle Creek, Mich.
Standard Sheet Metal Co. ("Suburban"), Passaic, N. J.
Standard Stamping Co. (Fountain), Marysville, Ohio
Stearns, E. C. & Co. ("Stearns," Reversible), Syracuse, N. Y.
Stuber & Kuck (Square Spray), Peoria, Ill.
**TURNER & SEYMOUR MFG. CO. ("Rainbow"),** Torrington, Conn. (See adv. index, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Westervelt, A. B. & W. T. ("The Hub"), 102 Chambers, New York
Wilgus Mfg. Co. ("Wilgus"), Los Angeles, Cal.

## 5581— Lawn Sweepers

Greene Mfg. Co. ("Apollo"), Springfield, O.
Philadelphia Lawn Mower Co., 3107 Chestnut, Phila., Pa.

## 5582— Lead (Antimonial)

Beer, Sondheimer & Co., 42 B'way, New York
**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Nassau Smelting & Refining Works, 607 W 29th, New York
New York Metal Selling Co., 2 Rector, New York
Toothill, John, Roselle Park, N. J.

## 5583— Lead (Blue)

Picher Lead Co., Joplin, Mo.

## 5584—Lead Burning Outfits

Storage Battery Supply Co. (For Storage Batteries, etc.), 239 E 27th, New York

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## 5585– Lead Joint Remover

Smith, A. P. Mfg. Co. ("French"), East Orange, N. J.

## 5586– Lead (Lantern)

Chadwick-Boston Lead Co., Boston, Mass.

## 5587– Lead (Pig)

(See also Lead Pipe, Sheet & Pig Lead Manufacturers)

Hendricks Bros., 49 Cliff, New York
Kroenert Smelting & Refining Co., Pittsburg, Pa.
Nassau Smelting & Refining Works, 609 W 29th, New York
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
**WALSH'S SONS CO., Harrison, N. J.** (See adv. index, end of book)

## 5588–Lead Pipe Couplings & Fittings)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.

## 5589–Lead Pipe Former & Sizer

Vanderman Mfg. Co., Willimantic, Conn.

## 5590–Lead Pipe, Sheet & Pig Lead Mfrs.

American Metal Co., 52 B'way, New York
American Smelting & Ref. Co., 165 B'way, New York
Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburg, Pa.
Baker Lead Mfg. Co., Worcester, Mass.
Blatchford, E. W. Co., 230 N Clinton, Chicago, Ill.
Bogue Lead Co., 1810 Blake, Denver, Col.
Brooklyn Metal Works (Inc.), 4th av, & Degraw, Brooklyn, N. Y.
Chadwick-Boston Lead Co., Boston, Mass.
Charleston Lead Works, Charleston, S. C.
Colorado Lead Works Co., Denver, Colo.
Columbia Smelting & Refining Works, 366 West, New York
Colwell Lead Co., 109 Lafayette, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane-Hawley Co., Cincinnati, O.
Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
Du Bois, Fred'k N. & Co., 243 9th av, New York
Fleck Bros. Co., 44 N 5th, Philadelphia, Pa.
Genesee Metal Co. (Pig Lead), Rochester, N. Y.
Gibson & Price Co., Cleveland, O.
Granby Mining & Smelting Co. (Pig Lead), St. Louis, Mo. Works: Granby, Mo.
Great Western Smelting & Refining Co., 41st & Wallace, Chicago, Ill.
Hendricks Bros., 49 Cliff, New York
Hoyt Metal Co. (Lead Pipe, Sheet & Pig Lead Mfrs., Sheet Lead Only), St. Louis, Mo., & Perth Amboy, N. J.
Illinois Smelting & Refining Co. (Bar & Pig), 410 N Peoria, Chicago, Ill.
Lang, E. M. Co., Portland, Me.
Lewis, John T. & Bros. Co., Lafayette bldg, Phila., Pa.
Mayor, Lane & Co., 340 Hudson, New York
Millar, Chas. & Son Co., Utica, N. Y.
Nassau Smelting & Refining Works, 607 W 29th, New York
National Lead Co., 111 B'way, New York
National Lead & Oil Co. (of Pa.), Pittsburg, Pa.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
North American Smelting Co., 900 Thompson, Phila., Pa.
Penna. Smelting Co., Carnegie, Pa.
Phillips Lead & Supply Co., Providence, R. I.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Raymond Lead Co., 735 W Washtenaw av, Chicago, Ill.
Read, H. P. Lead Works, 32 Sanford, Brooklyn, N. Y., & 645 Lexington av, New York
Rochester Lead Works, Rochester, N. Y.
Ronalds & Johnson Co. (Lead Pipe Only), 54 Cliff, New York
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
St. Joseph Lead Co., 5 Nassau, New York
San Antonio Machine & Supply Co., San Antonio, Tex.
Sandoval Zinc Co., 122 N. Peoria, Chicago, Ill. Works, Sandoval, Ill.
Selby Smelting & Lead Co., San Francisco, Cal.
Tillinghast, L. H. Supply Co., Providence, R. I.
Trench, C. S. & Co., 81 Fulton, New York
Trotter, Nathan & Co., 36 N Front, Philadelphia, Pa.
United Lead Co., 111 B'way, New York
Vogelstein, L. & Co., 42 B'way, New York
Windsor Mfg. Co., Milwaukee, Wis.

## 5591–Lead Refiners (Electrolytic)

U. S. Metal Refining Co., 42 B'way, New York

## 5592– Lead Refining Plants

**ALLIS-CHALMERS CO.** (Complete Plants), Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 5593– Lead (Ribbon)

Chadwick-Boston Lead Co., Boston, Mass.

## 5594–Lead Traps, Bends & Ferrules

Barry Mfg. Co., Muscatine, Ia.
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Blatchford, E. W. Co., 230 N Clinton, Chicago, Ill.
Brooklyn Metal Works ("Dranro;" also Combination Bends & Ferrules), 4th av, c Degraw, Brooklyn, N. Y.
Colwell Lead Co., 109 Lafayette, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Sanitary Supply Co., Detroit, Mich
Du Bois, F. N. & Co., 247 9th av, New York
King Mfg. Co., Watervliet, N. Y.
Lewis, Jno. T. & Bros. Co., 231 S Front, Phila., Pa.
National Lead Co., 111 B'way, New York
National Lead & Oil Co. (of Pa.), Pittsburg, Pa.
Raymond Lead Co., 735 W Washtenaw av, Chicago, Ill.
Ronalds & Johnson Co. (Traps & Bends Only), 54 Cliff, New York
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
Selby Smelting & Lead Co., San Francisco, Cal.
Smith, J. R. & Co. ("J. R. S. Simplex" Ferrules), Mechanicsville, N. Y.
United Lead Co., 111 B'way, New York
Windsor Mfg. Co., Milwaukee, Wis.

## 5595–Lead (Wedge & Monumental)

Chadwick-Boston Lead Co., Boston, Mass.

## 5596– Lead Wool

New York Lead Wool Co. (For Calking Pipe Joints, etc.), 93 Nassau, New York
Raymond Lead Co., 735 W Washtenaw av, Chicago, Ill.
United Lead Co., 111 B'way, New York

## 5597– Leaders (Cattle)

Covert Mfg. Co., Troy, N. Y.
Humason & Beckley Mfg. Co., New Britain, Conn.
Ely, Theo. J. Mfg. Co. ("Krick's"), Girard, Pa.
Leavitt Mfg. Co., Urbana, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Phillips, M. T., Pomeroy, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Smith, Seymour & Son, Oakville, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.

## 5598–Leadite for Pipe Joints

Leadite Co., Land Title bldg, Phila., Pa.

## 5599– Leads (Sounding)

Chadwick-Boston Lead Co., Boston, Mass.
Wilcox, Crittenden & Co., Middletown, Conn.

## 5600– Leather (Artificial)

Boston Artificial Leather Co. (Morrocoline), Stamford, Conn., & 310 4th av, New York
Chase, L. C. & Co. ("Standard," for Furniture, Car Seats & Wall Covering), 89 Franklin, Boston, Mass.
**DIAMOND STATE FIBRE CO., Elsmere, Del.** (See adv. index, end of book)
**FABRIKOID CO. (E. I. du Pont de** Nemours Powder Co., Owner), Newburgh, N. Y.
Frost Finishing Co., West Barrington, R. I.
Keratol Co., Newark, N. J.
Neumann, R. & Co., 76 Worth, New York
Pantasote Leather Co., Passaic, N. J.
Quride Co. ("Quride" for Car Seats, etc.), Syracuse, N. Y.

## 5601–Leather (Hydraulic & Valve)

Auburn Leather Goods Co., Auburn, N. Y.
Auer, C. A., Corry, Pa.
**BICKFORD & FRANCIS BELTING** Co., 37 Pearl, Buffalo, N. Y. (See adv. index, end of book)
Chicago Rawhide Mfg. Co. ("Krome"), 1301 Elston av, Chicago, Ill.
Cowan, Andrew & Co., Louisville, Ky.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Ladew, Edw. R. (Est. of), 82 Fulton, New York
National Leather Mfg. Co., Niles, Mich.
Page Belting Co., Concord, N. H.
Quride Co. ("Quride"), Syracuse, N. Y.
Shultz Belting Co., St. Louis, Mo.

## 5602–Leather (Mechanical)

Chicago Rawhide Mfg. Co. ("Krome," Water, Oil, Steam & Heat Proof), 1301 Elston av, Chicago, Ill.
Nott, W. S. Co., Minneapolis, Minn.
Quride Co. ("Quride"), Syracuse, N. Y.

## 5603–Leather Mechanical Goods

Houghton, E. F. & Co. ("Vim"), 240 W Somerset, Phila., Pa.

## 5604– Leather (Polishing)

Palmer, N. & Co., Bridgeport, Conn.
Peckham Mfg. Co., Newark, N. J.

## 5604a–Leather Stuffing Apparatus

**STURTEVANT, B. F. CO., Hyde** Park, Mass. (See adv. index & branch offices, end of book)

## 5605– Leathers (Pump)

Barwood, L. J. Co., Boston, Mass.
Climax Specialty Co., Ann Arbor, Mich.
Graton & Knight Mfg. Co., Worcester, Mass.
Houghton, E. F. & Co. ("Vici"), 240 Somerset, Phila., Pa.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Mark Mfg. Co., Evanston, Ill.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Norwich Belt Mfg. Co. (Pump Valve), Norwich, Conn.
Nott, W. S. Co., Minneapolis, Minn.
Palmer, N. & Co., Bridgeport, Conn.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Solid Leather Washer Mfg. Co., Newark, N. J.

## Ledgers (Loose Leaf)

(See Loose Leaf Devices)

## 5606– Legs (Counter)

Hardware & Woodenware Mfg. Co. (Cast Iron), 639 B'way, New York

## 5607–Legs (Laundry Tub)

National Closet Mfg. Co. ("Neverslip"), 752 W Van Buren, Chicago, Ill.

## 5608–Legs (Sink & Wash Tray)

Acme Mfg. Co., Bangor, Me.
Bailey, Frederic T. & Co., North Scituate, Mass.
Central Foundry Co. (Cast Iron), 90 West, New York
Cheney, S. & Son, Manlius, N. Y.
Edwardsville Brass Co., Edwardsville, Ill.
Republic Mfg. Co. (Adjustable Sink Leg & Swinging Seat), 656 W Wash'n boul, Chicago, Ill.

## Legs (Urinal)

(See Urinal Fittings & Trimmings)

## 5609– Lenses

American Optical Co., Southbridge, Mass.
Bache, Semon & Co., West & Hubert, New York
Bausch & Lomb Optical Co. (Eye Glass, Projection & Photographic), Rochester, N. Y.

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**Corning Glass Works, Corning, N. Y.**
Genesee Optical Co. ("Toroid"), Rochester, N. Y.
Gundlach-Manhattan Optical Co. (Photographic), Rochester, N. Y.
Libbey Glass Co., Toledo, O.
Sneath Glass Co. (All Colors), Hartford City, Ind.
Spencer Lens Co. (Photographers'), Buffalo,
Tilton Optical Co., Tilton, N. H. N. Y.
United States Lens Co., Geneva, N. Y.
Wollensak Optical Co. (Photographic, etc.), Rochester, N. Y.

## 5610– Letters (Cut Glass)

Herrlein & Henrich Co., 97 Hudson, New York

## 5610a–Letters (Iron & Bronze)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

## Letters (Metallic)

(See Numbers & Letters, Metal)

## 5611–Letters (Porcelain Sign)

Colonial Sign & Insulator Co. (For Electric Signs), Akron, O.

## 5612– Letters (Sign)

Metallic Sign Letter Co. (Metallic), 433 N Clark, Chicago, Ill.

## 5613–Letters (Sign, Cast Iron)

Benfield & Milne Mfg. Co., Newark, N. J.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Brown & Sharpe Mfg. Co. (Up to 5 Feet High), Providence, R. I.
Detroit Arch'l Iron Works Co., Detroit, Mich.
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Ziegler Bros. (Removable Metallic) Elgin, Ill.

## Letters (Transfer)

(See Ornaments, Transfer)

## 5614– Letters (Wood)

Bogert & Hopper (Enameled Wood), 162 William, New York
Estes, E. B. & Sons (Enameled, etc.), 74 Warren, New York
Spanjer Bros. (For Signs), Newark, N. J.

## 5615–Letters & Figures (Aluminum)

Aluminum Goods Mfg. Co., Manitowac, Wis.

## 5615a–Letters & Figures (House)

**AMERICAN RAILWAY SUPPLY CO., 26** Park pl, New York. (See adv. index, end of book)

## 5616–Letters & Figures (Pattern)

Brim, A. W., Seneca Falls, N. Y.
Cleveland Fillet Co. (White Metal), Cleveland, Ohio
Everett, A. & Son, Auburn, N. Y.
Fletcher, Terry & Co. (White Metal, etc.), Forestville, Conn.
Freeman Pattern Works, Toledo, O.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Knight, H. W. & Son, Seneca Falls, N. Y.
McCormick, J. S. Co., Pittsburg, Pa.
Matthews, Jas. H. & Co. (Pattern House, etc.), 306 Wood, Pittsburg, Pa.
**NIAGARA FALLS METAL STAMPING** Works (Steel, Brass & Aluminum), Niagara Falls, N. Y. (See adv. index, end of book)
Oliver Machinery Co., Grand Rapids, Mich.
**OSBORN MFG. CO., Cleveland, O.** (See adv. index, end of book)
Pattern Letter Co. (White Metal & Brass). Taunton, Mass.
Shanafelt Mfg. Co., Canton, O.

## 5617–Letters & Figures (Steel)

Cleveland Galvanizing Works, Cleveland, O.
Cleveland Steel Stamp Works, Cleveland, O.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Hanson, C. H. (Machine Made, Cold Rolled), 44 Clark, Chicago, Ill.
Konigslow Stamping & Tool Works, Cleveland, Ohio
Schwerdtle Stamp Co., Bridgeport, Conn.

## 5617a–Letters & Figures ("Willson" Gummed Paper)

**TABLET & TICKET CO., 541-553** Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

## 5618– Levelers (Coke)

**ATLAS CAR & MFG. CO. (Electric),** 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)

## 5619– Levelers (Coopers')

White, L. & I. J. Co., Buffalo, N. Y.

## 5619a–Levelers (Roller, for Plates & Sheets)

**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)

## 5620– Levels

Ainsworth, Wm. & Sons ("Wye"), Denver, Colo.
Athol Machine Co. (Iron Pocket, Plumbers', Machinists', Iron Bench, Carpenters', etc.), Athol, Mass.
Baker, McMillen Co. ("Akron," "Standard" & "Eclipse," Carpenters' & Masons' Levels), Akron, O.
Bausch & Lomb Optical Co. ("Wye," "Dumpy," "Precise," etc.), Rochester, N. Y.
Beckmann, L. Co., Toledo, O.
Bedortha Bros., Windsor, Conn.
Bender, Ph. J. & Sons (Machinists, etc.), 87 Frankfort, New York
Berger, C. L. & Sons, Boston, Mass.
Bostrom-Brady Mfg. Co. ("Bostrom," Builders & Farm), Atlanta, Ga.
Chapin-Stephens Co. (Adjustable & Non-Adjustable Machinists', Brass Cornered, etc.), Pine Meadow, Conn.
**CRESCENT NOVELTY MFG. CO.** (Brick Masons'), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Curry, L. M. Co. (With Removable Lens), etc.), 80 Park pl, New York
Davis & Cook (Spirit, "Cooks" Patent, also "Davis & Cook" Plumb & Level, Aluminum), Watertown, N. Y
Dietzgen, Eugene Co., 181 Monroe, Chicago, Ill.
Disston, Henry & Sons (Inc.) (Iron, Shafting Pocket, Machinists', etc.), Tacony, Phila., Pa.
**ELLIOTT, B. K. CO., 108 6th, Pitts-** burg, Pa. (See adv. index, end of book)
Gardam, Wm. & Son (Architects', Builders', etc.), 80 Park pl, New York
Geier & Bluhm ("Wye"), Troy, N. Y.
Goodell-Pratt Co. ("Richardson," Rocket, Bench, Engineers', etc.), Greenfield, Mass.
Gurley, W. & L. E. (Architects', Engineers', etc.), Troy, N. Y.
Hanna Mfg. Co., Troy, N. Y.
Helb, Edward ("American" Combined Level & Grade Finder), Railroad, Pa
Iszard-Warren Co. (Inc.) ("Sterling"), 136 N 12th, Phila., Pa.
Keuffel & Esser Co. (Architects', Engineers', etc.), 127 Fulton, New York
Lietz, A. Co., San Francisco, Cal.
**MAKEPEACE, B. L., 387 Washing-** ton, Boston, Mass. (See adv. index, end of book)
Millers Falls Co. (Iron), 28 Warren, New York
Osborne, C. S. & Co. (Pocket Spirit), Harrison, N. J.
**PEASE, C. F. CO. (Contractors'), 167** Adams, Chicago, Ill. (See adv. index, end of book)
Pfister, Herman (Architects' & Builders'), 428 Plum, Cincinnati, O
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
Prince, L. M., Cincinnati, O.
Putnam Machine Co. (Iron, Machinists', etc.), Fitchburg, Mass
**QUEEN & CO. (Inc.), (Architects',** Engineers', etc.), 1211 Arch, Phila., Pa. (See adv. index, end of book)
Robinson, M. W. Co. ("Davis" Patent Iron), 88 White, New York
Sawyer Tool Mfg. Co. (Cross Adjustable Bench), Fitchburg, Mass.
Smith, E. G. Co. ("Which Way" Pocket), Columbia, Pa.
Smith, S. O. (Box Wood, etc.), Newark, N. J.
**SOLTMANN, E. G.** (Architects' & Engineers'; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
Southington Hardware Co. (Steel), Southington, Conn.
Stanley Rule & Level Co. (Bit & Square, Iron Pocket, etc.), New Britain, Conn.
Stearns, E. C. & Co. (Bit & Square), Syracuse, N. Y.
**STARRETT, L. S. CO. (Iron, Adjust-** able Bench, etc.), Athol, Mass. (See adv. index & branch offices, end of book)
Stratton Level Co. (Cat's Eye Level Glass, etc.), Greenfield, Mass.
Taylor Instrument Companies ("Tycos"), Rochester, N. Y.
Tower & Lyon Co. (Unique & P. & L.), 95 Chambers, New York
White, David Co. (Architects' Convertible, Transit, Dumpy, Farm, Engineers' Y & "Locke's" Hand), Milwaukee, Wis.
Wright, Frank (Farm), Cave Spring, Ga.
Young & Sons (Engineers', etc.), 47 N 7th, Phila, Pa.

## 5621–Levels (Finger Ring)

Kokomo Level Co. (For Setting Concrete Blocks), Kokomo, Ind.

## 5622– Levels (Hydrostatic)

**WEBSTER MFG. CO. ("Macdonald"),** 2410 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 5623– Levels (Track)

Buda Co. ("McManus" Combined Track Gauge Level, etc.), Railway Exchange bldg, Chicago, Ill.
Chapin-Stephens Co., Pine Meadow, Conn.
**FAIRBANKS, MORSE & CO. ("Du-** plex," "McHenry," etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co., St. Louis, Mo.
Irving Mfg. & Tool Co., 169 Chambers, New York
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
Sheffield Car Co. ("The McHenry"), Three Rivers, Mich.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Verona Tool Wks., Verona, Pa., & Pittsburg, Pa.

## 5624– Levers (Brake)

Altoona Iron Co. (Wrought Iron), Altoona, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Cambria Steel Co. (Forged Steel), Johnstown, Pa.
Dayton Malleable Iron Co. (Made from Malleable Iron), Dayton, O.
Steel Car Forge Co., Pittsburg, Pa. Works, Elwood City, Pa.
Valley Forging Co. ("Forsyth"), Verona, Pa.

## 5625–Lewises (Pin, Chain, Etc.)

**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

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## 5626—Library Shelving & Fittings (Metallic)

American Iron & Wire Works ("Allen's 20th Century"), 1622 Carroll av, Chicago, Ill.
Art Metal Construction Co., Jamestown, N. Y.
**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)
Canton Art Metal Co., Canton, O.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Federal Steel Fixture Co., 4545 W Homer, Chicago, Ill.
**GENERAL FIREPROOFING CO. ("Allsteel"),** Youngstown, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)
Hecla Iron Works, 118 N 11th, Brooklyn, N.Y.
Library Bureau, Boston, Mass.
**SNEAD & CO. IRON WORKS** ("Green's"), ft of Pine, Jersey City, N. J. (See adv. index, end of book)
Steel Fixture Mfg. Co., Topeka, Kan.
Stikeman, Geo. ("Stikeman"), 110 W 32nd, New York

## 5626a—Lids (Journal Box)

**ALLEGHENY STEEL CO. (Stamped** Steel), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
American Shovel & Stamping Co., Lorain, O.
Davis Solid Truss Brake Beam Co., Wilmington, Del.
Kinzer & Jones Mfg. Co., 101 Penn av., Pitts.
McCord & Co., 150 Michigan av, Chicago, Ill.
Railway Steel Spring Co. (Pressed Steel), 30 Church, New York
Symington, T. H. Co., Baltimore, Md., & Rochester, N. Y.
Union Spring & Mfg. Co. (Pressed Steel), Pittsburg, Pa.

## 5627— Lids (Stove)

Standard Utilities Corp. ("Wonder"), Scranton, Pa.

## Life Boats

(See Boats, Life; also Life Rafts)

## Life Nets

(See Nets, Life Saving)

## 5628— Life Preservers

Armstrong Cork Co. ("Acme"), Pittsburg, Pa.
Carley Life Float Co., Betz bldg, Phila., Pa.
Davol Rubber Co., Providence, R. I.
Drein, Thos. & Sons, Wilmington, Del.
Goodyear Rubber Co., 787 B'way, New York
Hodgman Rubber Co. ,806 Broadway, New York
Kahnweiler's, David Sons, 260 Front, New York
Lane & De Groof, Long Island City, N. Y.
Mundet, L. & Sons, 186 Van Brunt, Brooklyn, N. Y.
National India Rubber Co., Bristol, R. I.

## 5629— Life Rafts

American Ship Building Co., Cleveland, O.
**CARPENTER, GEO. B. & CO., 202** S Water, Chicago, Ill. (See adv. index, end of book)
Detroit Shipbuilding Co. (Brass Dept.), ("Clark's" Metallic), Detroit, Mich.
Kahnweiler's, David Sons (Metallic Life Rafts & Boats), 260 Front, New York
Lane & DeGroot Co. (Metallic), Long Island City, N. Y.
Moore, Enoch Jr. (Life Boats), Wilmington, Del.
Munn, Thos. C. Co. (Also Life Boats), Wilmington, Del.

## 5630— Lifters (Car Step)

Consolidated Car Fender Co. ("Miller"), Providence, R. I.

## 5631— Lifters (Core)

Imperial Iron Works (For Diamond Drills), Duluth, Minn.

## 5632—Lifters (Lever, Foundry)

**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

## 5633— Lifters (Stove Lid)

Adams Co., Dubuque, Ia.
**ARCADE MFG. CO. ("Devore,"** "Zero," "Siberian," "Arcade" & "New Idea"), Freeport, Ill. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Ely, Theo. J. Mfg. Co., Girard, Pa.
Fanner Mfg. Co. ("Arctic", "Chilkoot" Steel Wire Handle), Cleveland, O.
Franklin Specialty Co., Reading, Pa.
Griswold Mfg. Co. ("Erie"), Erie, Pa.
**Hamblin & Russell Mfg. Co. ("Crown," "Grip"), Worcester, Mass.**
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hunt, Helm, Ferris & Co. ("Star" Wire), Harvard, Ill.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Kramer Bros. Foundry Co., Dayton, O.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
New York Stamping Co. ("Zero"), N 11th & Berry, Brooklyn, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Phillips & Buttorff Mfg. Co., Nashville, Tenn.
Shimer, Wm. Son & Co., Freemansburg, Pa.
Sidney Hollow Ware Co., Sidney, O.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Alaska" Nickel Plated), Albany, N. Y.
Wagner Mfg. Co., Sidney, O.
Williams, A. C. Co., Ravenna, O.
Wire Goods Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

## Lifters (Tack)

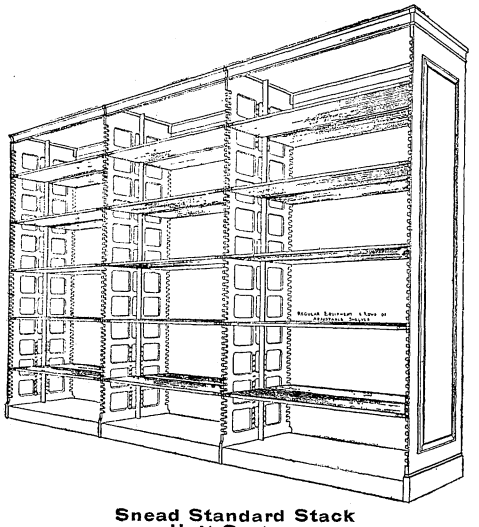
(See Claws, Tack)

## 5634— Lifts (Acid)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

## 5635— Lifts (Air)

(See Lifts, Pneumatic; also Pneumatic Pumping Systems)

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## Lifts (Ash)
(See Hoists, Ash)

## 5636— Lifts (Book)

**BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)

## 5637— Lifts (Car)

**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)

## 5638— Lifts (Hydraulic)

**Coffin** Valve Co. (For Large Water Gates), Neponset, Boston, Mass.
Illinois Pump & Brass Co. ("Perfect"), Peoria, Ill.
**Wood, R. D. & Co. (Portable), 400 Chestnut, Phila., Pa.**

## Lifts (Magnetic)
(See Magnets, Lifting)

## 5639—Lifts (Motor Armature)

**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
**BENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 5640—Lifts (Motor, Car Pit)
(See also Cranes; also Hoists)

**American General Engineering Co. ("A. G. E." Air Lift), 253 B'way, New York**
**Brill, J. G. Co., 62nd & Woodland av, Phila., Pa.**
**Columbia Machine Works & Malleable Iron Co. ("Columbia," Pneumatic), 269 Chestnut, Brooklyn, N. Y.**
**DUFF MFG. CO., N S, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Patten, Paul B., Salem, Mass.
**Q. M. S. Co. (Pneumatic), Plainfield, N. J.**
**Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.**

## 5641— Lifts (Pneumatic)

(See also Pneumatic Pumping Systems; also Lifts, Water)

American Air Compressor Works, Van Brunt & Summit, Brooklyn, N. Y.
Hudson Engineering Co., 90 West, New York
**INGERSOLL - RAND CO. ("Pohle" & "Saunders," for Water, & "Moran" & "Moser," for Oil), 11 B'way, New York.** (See adv. index & branch offices, end of book)
**Leyner, J. Geo. Engineering Works Co., Littleton, Colo.**
McKiernan-Terry Drill Co., 115 B'way, New York
**Miles Pneumatic Tube Co., 1123 B'way, New York**
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)**

## 5642— Lifts (Sash)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Brass Goods Mfg., Nevin c Union, Brooklyn, N. Y.
Columbian Hardware Company ("Columbian"), Cleveland, O.
**Corbin, P. & F., New Britain, Conn.**
**Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.**
Grammes, L. F. & Sons, Allentown, Pa.
**Griffin Mfg. Co., Erie, Pa.**
**Ives, Hobart B. Co. (Hook, Flush, etc.), New Haven, Conn.**
McKinney Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa
**National Mfg. Co. (Wrought Steel or Brass), Sterling, Ill.**
**Norwalk Lock Co., South Norwalk, Conn.**
**Payson Mfg. Co. (Bar Sash), 2918 W Jackson boul, Chicago, Ill.**
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
**Russell & Erwin Mfg. Co., New Britain, Conn.**
**Sharon Hardware Mfg. Co. (Steel Flush, Hook, etc.), Sharon, Pa.**
Shelby Spring Hinge Co. (Steel Hook, also Bronze & Brass, Polished), Shelby, O.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Stover Mfg. Co., Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
**VOELKNER & HARRY MANUFACTURing Co. (Bar, Flush & Hook, Polished Brass & Japan), 282 Woodbridge E, Detroit, Mich.** (See adv. index, end of book)
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wrightsville Hdw. Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## Lifts (Sewage)
(See Ejectors, Sewage)

## Lifts (Sidewalk)
(See Elevators, Sidewalk)

## 5643— Lifts (Skylight)

Danzer Metal Works, Hagerstown, Md.

## 5644— Lifts (Transom)

Boston Pressed Metal Co. ("Osborne"), Worcester, Mass.
Columbian Hardware Co., Cleveland, O.
Concealed Transom Lift Co. ("Ideal" Concealed), 30 W 33d, New York
Cabin Cabinet Lock Co., New Britain, Conn.
Dearborn Hardware Mfg. Co. ("Dearborn" Grip Self Locking), 2911 Carroll av, Chicago, Ill.
Hine-Watt Mfg. Co., 45 Randolph, Chicago, Ill.
McCrum-Howell Co. ("Richmond" Concealed), 103 Park av, New York
Ormsby, E. A., Melrose, Mass.
Payson Mfg. Co. ("Simplex"), 2918 W Jackson boul, Chicago, Ill.
Penn Hardware Co. ("Penn"), Reading, Pa.
Reading Hardware Co., Reading, Pa.
Reading Screw Co. (Colton Self-Locking Push Button), Norristown, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Supplee Hardware Co., 503 Market, Phila., Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5645— Lifts (Water)
(See also Lifts, Pneumatic)

**AMERICAN WELL WORKS ("Chapman's" Patent Air Water Lift System),** Aurora, Ill. (See adv. index, end of book)
Bishop-Babcock-Becker Co. ("Eureka" Automatic), Cleveland, O.
Braender, Philip (Automatic), 315 4th av, New York
Buckeye Pump & Mfg. Co. ("Buckeye" Automatic), Columbus, O.
Cleveland Faucet Co. ("Champion" Automatic), Cleveland, O.
Clow, Jas. B. & Sons ("Clow"), 344 Franklin, Chicago, Ill.
Illinois Pump & Brass Co. ("Perfect," Automatic for House Use), Peoria, Ill.
**INGERSOLL-RAND CO. (Air "Pohle" & "Saunders"), 11 B'way, New York.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Water Lift Co. ("National" for Residences), Kalamazoo, Mich.
Ohio Pump & Brass Co. (Improved "Triumph" Hydraulic), 18th & Oak, Columbus, O.
Sanitary Pump Co. (Automatic Electric), Dayton, O.

## 5646—Light House Builders

American Gas Accumulator Co., 5 Beekman.
Lewis, Henry B., Detroit, Mich. New York
**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)**

## 5647— Lighters (Cigar)

American Electrical Novelty Mfg. Co. ("Ever Ready," Electric), 308 Hudson, New York
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Braun, D. J. Mfg. Co., Chicago, Ill.
Brunhoff Mfg. Co. (Cutter & Lighter Combined), Cincinnati, O
Carris Novelty Co., Washington, Ia.
Computing Cheese Cutter Co. (Electric), Anderson, Ind.
Cowles, C. & Co. (Electric), New Haven, Conn.
Eldred Mfg. Co. ("Wizard" Electric), 54 E Kinzie, Chicago, Ill.
Erie Specialty Co., Erie, Pa.
**GENERAL ELECTRIC CO. (Electric),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Gleason, E. P. Mfg. Co., 37 Murray, New York
Herz Mfg. Co., St. Paul, Minn.
Higgin Mfg. Co., Newport, Ky.
Mahony Bros. ("Chicago," Electric), 134 Van Buren, Chicago, Ill.
Metal Specialties Mfg. Co. ("Presto"), 427 W Randolph, Chicago, Ill.
National Selling Co., Allentown, Pa.
New England Novelty Mfg. Co., Boston, Mass.
Ohio Electric Works (Electric Portable), Cleveland, O.
Standard Mfg. Co. ("Crown," Pendant Electric), Auburn, Ind.
Stanley & Patterson ("Bestelectric"), 23 Murray, New York
Weber, G. L. Co., Wainwright bldg, St. Louis, Mo.
Wolff, Alfred & Co. (Electric), 29 Park pl, New York

## 5648— Lighters (Fuse)

**du PONT, E. I., de NEMOUS POWder Co. ("Matthews"), Wilmington, Del.** (See adv. index & branch offices, end of book)

## 5649—Lighters (Gas, Electric)

(Above Means Torches; see also Burners, Electric, Gas Lighting)

American Electrical Novelty & Mfg. Co. ("Ever Ready"), 308 Hudson, New York
Bogart, A. L. ("Bartholdi"), 123 Liberty, New York
Cowles, C. Co., New Haven, Conn.
Heinrich Electrical Novelty Co., 173 Grand, New York
Loomis Specialty Co., Minneapolis, Minn.
Mystic Gas Light Co., 206 B'way, New York
Roche, Wm., Jersey City, N. J.
Standard Sheet Metal Co. ("Rayflex"), Passaic, N. J.
Stanley & Patterson ("Matchless"), 23 Murray, New York
Universal Novelty Co. ("Aladdin"), 1193 B'way, New York

## 5650—Lighters (Range & Gas)

Safety Gas Lighter Co., Haverhill, Mass.
Standard Sheet Metal Co. ("Rayflex"), Passaic, N. J.

## 5650a—Lighting Systems (Electric)

**JOHNS, H. W.-MANVILLE CO. ("J-M Linolite"),** 100 William, New York. (See adv. index & branch offices, end of book)

## 5651— Lightning Rods

Ajax Conductor & Mfg. Co., 412 N Sangamon, Chicago, Ill.
Bajohr, Carl Lighting Conductor Co., 4055 Keokuk, St. Louis, Mo.
**Baltimore City Lightning Rod Works, Baltimore, Md.**
**Boston Lightning Rod Co., 28 Beach, Boston, Mass.**
**Buck, W., 1728 Ridge av, Philadelphia, Pa.**
**Cole Bros. Lightning Rod Co., St. Louis, Mo.**
**Cole Bros. & Johnson, Sherman, Tex.**
Dodd & Struthers, Des Moines, Ia.
Doughty, J. H., Greeneville, Tenn.
Electra Lightning Rod Co., Cresco, Iowa
Foy, Edw. A. & Co., 409 E 8th, Cincinnati, O.
Goodwin, Fred'k O., 5556 Arch, Phila., Pa.
Gorman, M. J., 640 Main, Cincinnati, O.
Heinis, Wm. G., 1347 Ridge av, Phila., Pa.
Hum & Leatherman, Pittsburg, Pa.
**HUNGERFORD, U. T. BRASS & COPper Co. (Copper), 497 Pearl, New York**
**Jackson & Cook, 318 Market, Phila., Pa.**
**Jones, Thos. W., 22 Burling sl, New York**
**Keyes Bros., Lewiston, Me.**
**King, Geo. M. Mfg. Co. ("King" Copper Cable), Des Moines, Ia.**
Kuehling, J. H. Co., 502 12th, N W, Washington, D. C.
Lyon, C. R. & Son, 13 N 13th, Newark, N. J.
Manhattan Brass Co., 338 E 28th, New York
Martin Co., Sac City, Iowa
**Miller Lightning Rod Co., St. Louis, Mo.**
**Moore Bros., Maryville, Mo.**
**National Cable & Mfg. Co. (Pure Copper Cable), Niles, Mich.**
**Nebraska Lightning Rod Co., Omaha, Neb.**
**Owen, J. D. & E. G., Janesville, Wis.**
**Reyburn, Hunter & Co., 488 N American, Phila., Pa., & 608 W Adams, Chicago, Ill.**
**Sadler, D. M. & Co., 907 N Arlington av, Baltimore, Md.**

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St. Louis Lightning Rod Co., 2135 De Kalb, St. Louis, Mo.
Security Lightning Rod Co., Burlington, Wis.
Shinn, W. C. (Copper Cable), Lincoln, Neb.
Shute, E. M., 1003 Myrtle av, Brooklyn, N.Y.
Smith, J. W., Galesburg, Ill.
Southern Lightning Rod Co., 819 Iberville, New Orleans, La.
Sterling Lightning Rod Co., Sterling, Ill.
Thompson, T., Burlington, Iowa
Washburne, Edw. G. & Co. (Copper), 207 Fulton, New York
Westervelt, A. B. & W. T., 102 Chambers, New York
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 5652— Lights (Deck)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5653—Lights (Desk, Electric)

Alexander, J. Co. ("Ferguson"), 1931 B'way, New York
Almond, T. R. Mfg. Co., Ashburnham, Mass.
American Brass & Copper Co., 138 Lafayette, New York
Butler Mfg. & Plating Co., Boston, Mass.
Dale Co., 9th av, & 13th, New York
D'Oiler, Henry, Jr. Co., 119 S 11th, Phila., Pa.
Faries Mfg. Co., Decatur, Ill.
Forg, Peter, Somerville, Mass.
Gail-Webb Mfg. Co., Buffalo, N. Y.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
H. C. K. Co., 30 Greenwich av, New York
**JOHNS, H. W.-MANVILLE CO. ("J-M Linolite"),** 100 William, New York. (See adv. index & branch offices, end of book)
Killoch, David Co. ("Kinsman," Daylight), 193 Greenwich, New York
Klemm & Co., 132 N 5th, Phila., Pa.
McLeod, Ward & Co. ("Kinsman"), 27 Thames, New York
**MORSE, FRANK W., 516 Atlantic** av, Boston, Mass. (See adv. index, end of book)
O'Brien Elec. Light Co., 1710 Market, Phila., Pa.
Oliver Mfg. Co. ("Flexilite"), 420 Sansom, Phila., Pa.
Overbagh & Ayres Mfg. Co. ("Oamco"), 232 S Clinton, Chicago, Ill.
Pacific Electric Co. ("Espersen"), La Crosse, Wis.
Scribner, A. C., Gloversville, N. Y.
Stanley & Patterson ("Sunlight"), 23 Murray, New York
Stuart-Howland Co. ("S. H."), Boston, Mass.
Wells Light Mfg. Co. ("Wallworks"), Jersey City, N. J.
Wheeler Reflector Co., Boston, Mass.
White, J. H. Mfg. Co. ("Zenith"), 111 N 3d, Brooklyn, N. Y.
White, O. C. Co., Worcester, Mass.

## 5654— Lights (Portable)

(See also Contractors' Portable Light)

**FAIRBANKS, MORSE & CO. (Contractors'** Acetylene & Kerosene), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**MILBURN, A. ALEXANDER CO.** (Acetylene, for Railroads & Contractors), 500 W Lombard, Baltimore, Md. (See adv. index, end of book)

## 5655—Lights (Stage, Electric)

(Bunch, Foot, Spot, Etc.)

Bissell, F. Co. ("Security"), Toledo, O.
Campbell Electric Co., Lynn, Mass.
Chase-Shawmut Co., Shawmut, Mass.
Globe Electric Specialty Co., 363 W 42d, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Kansas City Scenic Co., Kansas City, Mo.
Menchen, Jos. Electrical Co., 360 W 50th, New York
Pennefather, J. S. (Elect. Cont.), 105 W 39th, New York
Universal Elec. Stage Lighting Co. ("Kliegl"), 1393 B'way, New York

## 5656— Lights (Tail)

Lintern Car Signal Co., Cleveland, O.

## 5657—Ligni-Salvor (Wood Preserve)

Menzel, Wm. & Son. 68 Broad, New York

## 5658— Lignite Miners

American Lignite & Briquette Co., San Antonio, Texas
Consumers' Lignite Co., Dallas, Texas
Lone Star Lignite Mining Co., Dallas, Texas
Texas Lignite & Oil Co., Dallas, Texas

## 5659—Lignum Vitae Turnings

Sandusky Tool Co., Sandusky, O.
Seib Bros., Jersey City, N. J.

## 5660— Lime (Caustic)

American Lime & Stone Co., Tyrone, Pa.

## 5661— Lime (Chemical)

Church Quarry Co., Sibley, Mich.
New Jersey Lime Co., Hamburg, N. J.
Palmer Lime & Cement Co. ("Palmer," 99 per cent. Pure Carbonate), 149 B'way, New York
Security Cement & Lime Co. (Carbonate of Lime), Baltimore, Md.

## 5662—Lime (Ground & Crushed)

Acme Fire Clay Co., New Cumberland, W. Va.
American Lime & Stone Co. (Also Ground Limestone), Tyrone, Pa.
California Portland Cement Co., Los Angeles, Cal.; Works: Colton, Cal.
Glencoe Lime & Cement Co., 915 Olive, St. Louis, Mo.
Kelley Island Lime & Transport Co. (Bulk,
National Mortar & Supply Co., Pittsburg, Pa.
Ohio & Western Lime Co., Toledo, Ohio
Rockland-Rockport Lime Co., Fuller bldg, New York
Scioto Lime & Stone Co., Delaware, O.
Security Cement & Lime Co., Baltimore, Md.
Warner, Chas. Co., Wilmington, Del., Bridgeport, Pa. ("McCoy" Plant), & Devault, Pa. ("Cedar Hollow" Plant "Alca" Lime)
Woodville Lime & Cement Co., Toledo, O.

## 5663— Lime (Hydrated)

A. & C. Stone & Lime Co. (Portland White Lime), Indianapolis, Ind.
Ash Grove Lime & Portland Cement Co., Kansas City, Mo.
Basic Products Co., Kenova, W. Va.
Chickamauga Cement Co. (Hydrated Portland Lime), Chattanooga, Tenn.
Church Quarry Co., Sibley, Mich.
Cleveland Builders' Supply Co. ("Excelsior"), Cleveland, O.
Glencoe Lime & Cement Co., 915 Olive, St. Louis, Mo.
Dittlinger Lime Co. ("Snowdrift"), New Braunfels, Texas
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Hannibal Lime Co., Hannibal, Mo.
Hunkins-Willis Lime & Cement Co., St. Louis, Mo.
Hunkins-Willis Lime & Cement Co., 915 Olive, St. Louis, Mo.
Kelley Island Lime & Transport Co. ("Tiger" Brand, White Rock Finish), Cleveland, O.
Knickerbocker Lime Co., Phila., Pa.
Marblehead Lime Co. (Pure Calcium), Kansas City, Mo.
National Lime & Stone Co. ("Monarch"), Carey, O.
National Mortar & Supply Co. ("Banner"), Pittsburg, Pa.
New Jersey Lime Co., Hamburg, N. J.
Ohio & Western Lime Co. ("Diamond"), Toledo, O.
Scioto Lime & Stone Co., Delaware, O.
Security Cement & Lime Co. ("Berkeley"), Baltimore, Md.
Tidewater Portland Cement Co., 115 B'way, New York. Works, Union Bridge, Md.
Warner, Chas. Co. ("Cedar Hollow" Plant), Wilmington, Del., & Devault, Pa.
Western Lime & Cement Co., Milwaukee, Wis.
Woodville Lime & Cement Co., Toledo, O.

## 5664— Lime (Hydraulic)

Bangs-Gaynor Cement & Plaster Co., Fayetteville, N. Y.
**DOGGETT & STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Fowler & Pay ("Brown"), Mankato, Minn.
Ladd Lime Co., Cartersville, Ga.
Menominee Brick Co., Menominee, Mich.
Sheedy, Thos. W., Fayetteville, N. Y.

## 5665—Lime (Magnesian White)

Lee Lime Co. (For Sulphite & Rag Paper Mills, Hard Plaster, Scratch & Brown Coat, etc.), Lee, Mass.

## 5666— Lime Mfrs.

(For Lime Dealers see Masons' & Builders' Materials)

### ALABAMA.

ANNISTON—Lagarde Lime & Stone Co.
BIRMINGHAM—Adams, J. B.
CALERA—O'Neal, C. L.
LONG VIEW—Adams, J. B.

### ARKANSAS.

FAYETTEVILLE—Ozark White Lime Co.
ROGERS—Rogers White Lime Co. (White)

### CALIFORNIA.

LOS ANGELES—Los Angeles Lime Co.
Oro Grande Lime & Stone Co.
Union Lime Co.
SAN FRANCISCO—Cowell, Hy. Lime & Cement Co., 15 East
Holmes Lime Co., Mutual Sav. B'k bldg
Patent Brick Co., 331 Berry

### COLORADO.

DENVER—Barrows, G. A. Lime Co.
Colorado Lime & Fluxing Co.

### CONNECTICUT.

CANAAN—Canfield Lime Co.
Connecticut Lime Co.
Connecticut Western Lime Co.
EAST CANAAN—Canfield Lime Co.

### DELAWARE.

WILMINGTON—Warner, Chas. Co. ("Limoid")

### DISTRICT OF COLUMBIA.

WASHINGTON—Knott & Moler, 28th c K, N W

### FLORIDA.

OCALA—Marion Lime Co.

### GEORGIA.

ATLANTA—Piedmont Portland Cement & Lime Co.
GAINSVILLE—Deal, C. L. & Son
GRAYSVILLE—Church, M. M.
Hale, W. F.
BAYVIEW—Washington Brick, Lime & Mfg. Co. (See Spokane, Wash.)

### ILLINOIS.

ALTON—Armstrong, Jno. Lime & Quarry Co.
CHICAGO — Artesian Stone & Lime Works. Grand & Campbell ave
Brownell Improvement Co., Cham. of Com. bldg
Chicago Lime Co., 138 Wash.
Chicago Union Lime Works, 138 Wash'n
Druecker, N. J. & Co., 2634 N Artesian
Marble Head Lime Co., Masonic Temple
Stearns Lime & Stone Co., 165 E Randolph
Templeton Lime Co., Homan & Grand av
Waukesha Lime & Stone Co. (White Lime), 1756 N Central Park av
Wisconsin Lime & Cement Co., Chamber of Commerce bldg
FREEPORT—Grant, Mrs. Jennie
FULTON—Alden Lime Co.
PORT BYRON—Port Byron Lime Association
QUINCY—Menke, F. W. Stone & Lime Co.
Meyer, W. D. (Marble White)
Quincy White Lime & Cement Co.
ROCKFORD—Hart & Page

### INDIANA.

DELPHI—Delphi Lime Co.
Harley Bros.
EVANSVILLE—Eichel Lime & Stone Co.
FORT WAYNE—Moellering's, Wm. Sons
GREENCASTLE—Oakalla Stone & Lime Co.
HUNTINGTON—Ohio & Western Lime Co. (White)
INDIANAPOLIS—A. & C. Stone & Lime Co. (White)
MITCHELL—Mitchell Lime Co. (White)

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## IOWA.

DES MOINES—Des Moines Fuel & Lime Co.
MASON CITY—Mason City Lime & Cement Co.
VIOLA—Iowa Lime Co.

## KENTUCKY.

GLASGOW—Dickinson Bros.
LOUISVILLE—Union Cement & Lime Co., 421 Utica Lime Co., 421 W Main W Main
MOUNT VERNON—Kruger, F. & Sons
Mount Vernon Lime Co.
Sparks, W. J.

## MAINE.

ROCKLAND—Bird, A. J. & Co.
Rockland-Rockport Lime Co.
THOMASTON—Creighton, Jas. A. & Co.

## MARYLAND.

BALTIMORE—Gegner, Geo. A., 1st nr 4th av
Maryland Lime & Cement Co., Carroll bldg
National Building Supply Co., 418 East Pratt
Platt & Co. (Shell), ft Clement
Security Cement & Lime Co. ("Bergeley"), Equitable bldg. Works, Security, Md.
Standard Lime & Stone Co., Equitable bldg
Tidewater Portland Cement Co., Keyser bldg. Works, Union Bridge, Md.
Washington Building Lime Co., Equitable bldg
BUCKEYSTOWN—Standard Lime & Stone Co.
Washington Bldg Lime Co.
Security Cement & Lime Co. (See Baltimore)
TEXAS—Ditman, W. C.
Lindsay, William T.

## MASSACHUSETTS.

ADAMS—Hoosac Valley Lime & Marble Co.
New England Lime Co.
BOSTON—Carter, Thos. W., 30 Kilby
Fiske & Co. (Inc.) (Jobbers), 25 Arch
Warner, Chas. Co., 161 Devonshire
CHESHIRE—Cheshire Lime Mfg. Co.
Farnum Cheshire Lime Co. (Cheshire Finishing Lime)
LEE—Lee Lime Co. (Magnesia White Lime)

## MICHIGAN.

ALPENA—Collins, Richard
DETROIT—Houghten, Henry & Sons Co., 806 Hammond bldg
Little, C. H. Co., Peninsular Bank bldg
ELK RAPIDS—Elk Cement & Lime Co.
GRAND RAPIDS—Antrim Lime Co.
Superior Lime Co.
MANISTIQUE—White Marble Lime Co.
MENOMINEE—Lyon Bros. & Co.
PETOSKEY—Michigan Lime Co.
SAGINAW—Remer Bros, 300 Madison
SIBLEY—Church Quarry Co.

## MINNESOTA.

DULUTH—Cutler, D. G. Co.
MANKATO—Fowler & Pay ("Brown" Hydraulic)
Mankato Lime, Stone & Fuel Co.
ST. PAUL—Northwestern Lime Co., 68 Lower Shakopee
Cement & Lime Mfg. Co., 220 Chestnut
SHAKOPEE—Shakopee Cement & Lime Mfg. Co.
WINONA—Willis, H. J.

## MISSOURI.

BOONVILLE—Lohse & Miller
CAPE GIRARDEAU—Cape Lime & Marble Co
CARTHAGE—Carthage Marble & White Lime Co.
CENTAUR STATION—Centaur Lime Co.
HANNIBAL—Empire Lime Co.
Hannibal Lime Co.
Star Lime Co.
KANSAS CITY—Ash Grove Lime & Portland Cement Co. ("Ash Grove" White)
Brockett, C. A. Cement Co., 121 W 8th
Marblehead Lime Co. (Pure Calcium)
Phoenix Stone & Lime Co., 1901 Olive
LOUISIANA—Crystal Carbonate Lime Co.
Marblehead Lime Co.
PEIRCE CITY—Peirce City Lime Co. (White)
ST. LOUIS—Campbell & Crouch Lime & Cement Co.
Colorado Lime Co.
Glencoe Lime & Cement Co., 915 Olive
Hunkins-Willis Lime & Cement Co. (White, etc.)
Ste. Genevieve Lime Co. ("Oolitic", White), Mermod & Jaccard bldg
SPRINGFIELD—Marblehead Lime Co.

## NEW JERSEY.

CAMDEN—Camden Lime Co.
HAMBURG—New Jersey Lime Co.
Vanderhoof Lime Co.
McAFEE VALLEY—New Jersey Lime Co.
NEWARK—Phillips White Rock Lime Co., 125
PEAPACK—Todd, Philip Front

## NEW YORK.

BIGFLOW—Williams, Chas. & Co. (Mostly In Bulk)
BINGHAMTON—Ballard, J. W. Co.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Carroll Bros., 490 Ellicott sq
Reeb, M. A., 599 Mich
Ross, Jas. H., 141 Erie
CALEDONIA—Caledonia Marl & Lime Co.
CHAUMONT—Adams & Duford Co. ("Chaumont" White Lime in Bulk & Barrel)
CHAZY—Chazy Marble Lime Co.
FAYETTEVILLE—Bangs-Gaynor Cement & Plaster Co. (Water, Lime or Cement)
Sheedy, Thos. W. (Water Lime or Cement)
GLENS FALLS—Finch, Pruyn & Co.
Sherman Lime Co.
Wait, F. W. Lime Co.
KINGSTON—Gill, David, Jr., 220 E Strand
NEWBURGH—Harrison, Jno. J. E., 490 B'way

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Rockland-Rockport Lime Co., Newtown Creek & Morgan av

### Boroughs of Manhattan & Bronx.

NEW YORK—Bloomer & Co., 290 Front
Fiske & Co. (Inc.) (Jobbers), Flat Iron bldg
Keenan Lime Co. (Jointa & Lump), 74 Cortlandt
Palmer Lime & Cement Co. ("Cheshire" "Bellefonte" "Palmer" "Yorktown Heights" "Connecticut White" "Hardsell" "Hoosac Valley"). 149 B'way
Reardon, Dennis, 74 Cortlandt
Warren, Chas. Co., 1 Madison av

**(End of New York City)**

ROCHESTER—Rochester Lime Co. ("Snow Flake")
SODUS CENTER—Mather, E. B.
SYRACUSE—Britton, Israel E., 201 W Onon
UTICA—Conley, F. E. Stone Co.

## OHIO.

BOWLING GREEN—Snow Flake Lime Co.
BUCYRUS—Broken Sword Stone Co.
CANTON—Canton Grey Lime Co.
CAREY—National Lime & Stone Co.
CEDARVILLE—Ervin, D. S. Co. (Large)
CLEVELAND—James, Ralph T.
Kelley Island Lime & Transport Co.
COLD SPRINGS—Strunk-Meyer Lime Co.
COLUMBUS—Columbus Macadam Co., McKinley av
DELAWARE—Scioto Lime & Stone Co.
DURBIN—Jenkins Bros.
Moores, H. H. Co.
Moores Lime Co.
EIFORT—Morgan & Horton
FOSTORIA — Ohio & Western Lime Co. (Ground & in Lump)
GENOA—Ohio & Western Lime Co. (White)
GIBSONBURG — Ohio & Western Lime Co.
Zorn, Hornung Co. (White)
LUCKEY—Doherty & Co.
MARION—Evans, John, Lime & Stone Co.
Ohio & Western Lime Co.
PATTERSON—Herzog, Jno. & Son
PIQUA—Ohio Marble Co.
SPRINGFIELD—Mills Bros., 107 S Limestone
TIFFIN—Weon Lime & Stone Co.
TOLEDO—Doherty & Co., ft of Washington
Ohio & Western Lime Co.
Woodville Lime & Cement Co. (White)

## OREGON.

PORTLAND—McCraken, J. Co., 231 Pine
Nottingham & Co., ft Wash'n
Oregon Lime & Plaster Co., ft 14th

## PENNSYLVANIA.

ALLENTOWN—Ochs, M. T. J.
ANNVILLE—Batdorf & Forney
BELLEFONTE—Bellefonte Lime Co.
BRIDGEPORT—Warner, Chas. Co. ("McCoy & Keystone" Plants)
CANOE CREEK—Blair Limestone Co. (See Pittsburg)
CARLISLE—Goodyear Bros.
DEVAULT—Warner, Chas. Co. ("Cedar Hollow" & "Whiteland" Plants)
EASTON—Easton Lime Co.
FRANKSTOWN—American Lime & Stone Co.
FRAZER—Knickerbocker Lime Co.
NEW CASTLE—Croton Limestone & Brick Co.
NORRISTOWN—Richardson & Ross
PHILADELPHIA—Cox's, C. A. Sons, 2145 American
FRENCH, SAM'L H. & CO., 4th & Callowhill. (See adv. index, end of book)
Knickerbocker Lime Co. (Inc.), 366 N 24th
Lukens & Yerkes, Stephen-Girard bldg
Lyster Supply Co., 30th & Locust
Warner, Chas. Co. (Cedar Hollow, Wrightville & Potomac Lime Stone), Land Title bldg
PITTSBURG—Blair Limestone Co. Quarries, Canoe Creek, Pa.
Houston Bros. Co., 32d & P. R. R.
National Mortar & Supply Co. ("Banner Hydrate")
PLYMOUTH MEETING—Corson, G. & W. H.
Cox Lime & Stone Co.
READING—Reading Lime Co.
SCRANTON—Haslam Lime & Chemical Co.
Kellar, Luther
Paragon Plaster & Supply Co.
TYRONE—American Lime & Stone Co.
WAYNESBORO—Decarbonated Lime & Stone Co.
WRIGHTSVILLE—Steacey & Wilton Co.
YORK—Baker, J. E., & Co.
York Valley Lime Co.
YORK SPRINGS—Trostel, Geo. H.

## RHODE ISLAND.

LIMEROCK—Harris, Herbert

## SOUTH CAROLINA.

GAFFNEY—Carroll & Co.

## SOUTH DAKOTA.

PRINGLE—Black Hill Lime Co.

## TENNESSEE.

BURNS—Allen, Jesse Lime Co.
CHATTANOOGA—Gager Lime & Mfg. Co.
KNOXVILLE—Tennessee Lime & Sand Co.
MEMPHIS—Denie's, Jno. A. Sons (Ala. Ark., & Tenn. Lime)
Wright Lime & Cement Co.
NASHVILLE—Hardison, W. T. & Co., 115 S Front
Tennessee Cement & Lime Co.
SHERWOOD—Gager Lime & Mfg. Co.

## TEXAS.

AUSTIN—Austin White Lime Co.
EL PASO—El Paso Ice & Refrigerator Co.
FORT WORTH—Fort Worth Lime Works
Hierholzer, Jacob
NEW BRAUNFELS—Dittlinger Lime Co.
ROUND ROCK—Walsh, Wm. & Co.

## UTAH.

SALT LAKE CITY—Langton Lime & Cement Co.

## VERMONT.

AMSDEN—Amsden Lime Co.
IRA—Day, Dexter D.
LEICESTER JUNCTION—Brandon Lime & Marble Co.
NORTH POWNAL—New England Lime Co.
SAINT ALBANS—Fonda, W. B. Co.
SWANTON JUNCTION—Rich, Jno. P.

## VIRGINIA.

RICHMOND—Lee, A. S. & Sons Co.
Moore Lime Co., 17th & Dock
RIVERTON—Riverton Lime Co.
STEPHENS CITY—Grove, M. J. Lime Co.

## WASHINGTON.

DEER HARBOR—Cowell, Hy. Lime & Cement Co.
Orcas Lime Co.
FRIDAY HARBOR—Cowell, Hy. Lime & Cement Co.
ROCHE HARBOR—Tacoma & Roche Harbor Lime Co.
SPOKANE—Idaho Lime Co.
Washington Brick, Lime & Mfg. Co.
TACOMA—Tacoma & Roche Harbor Lime Co.

## WEST VIRGINIA.

BAKERTON—Washington Building Lime Co.
BUNKER HILL—Baker, J. E. & Co.
KENOVA—Basic Products Co.
MARTINSBURG—Standard Lime & Stone Co.
NEW CUMBERLAND—Acme Fire Clay Co.

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## WISCONSIN.

APPLETON—Marston Bros.
EDEN—Eden Independent Lime & Stone Co.
FOND DU LAC—Standard Lime & Stone Co.
GRAFTON—Milwaukee Falls Lime Co.
GRIMMS—Union Lime Co.
MAYVILLE—Mayville White Lime Works
MENASHA—Plummer, H. H.
MARBLEHEAD—Nast Bros. Lime & Stone Co.
Union Lime Co.
MILWAUKEE—Empire Lime & Stone Co.
Milwaukee Falls Lime Co., Humboldt av
Union Lime Co. c Commerce
Western Lime & Cement Co., Pabst bldg
Waukesha Lime & Stone Co. (White Lime), 1211 Humboldt
OSHKOSH—Cook & Brown Lime Co.
Kusche, Edward G.
QUARRY—Empire Lime & Stone Co.
RACINE—Horlick Lime & Stone Co.
Waukesha Lime & Stone Co.
ROCKFIELD—Mace Lime Co.
SHEBOYGAN—Sheboygan Lime Works
TEMPLETON—Templeton Lime & Stone Co.
WATERTOWN—Racek & Maldaner
WEST SUPERIOR—Superior Mfg. Co.

## Lime Packers

(See Packing Machines)

## 5667— Lime (Vienna)

Dow Chemical Mfg. Co., Mansfield, Ohio
Hanson & Van Winkle Co., Newark, N. J.

## 5668— Limestone (French)

**BOCKMANN & SHEPARD, 1265-9** B'way, New York. (See adv. index, end of book)

## 5669—Limestone (Ground & Powdered)

Armstrong, Jno. Lime & Quarry Co., Alton, Ill.
Casparis Stone Co. (Ground Limestone), Columbus, O.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Glencoe Lime & Cement Co. (Limestone Flux), 915 Olive, St. Louis, Mo.
Kelley Island Lime & Transport Co., Cleveland, O.
Ohio Marble Co., Piqua, O.
Osborn, Clarence J. Co. ("Broker"), 284 Pearl, New York
Security Cement & Lime Co., Baltimore, Md.
Whitestone Marble Co., Atlanta, Ga.

## 5670—Limestone (Screened)

Bessemer Limestone Co., Youngstown, O.

## 5671—Lincrusta Walton Mfrs.

Beck, Fr. & Co., 206 W 29th, New York

## Line Materials

(See Trolley Line Materials)

## 5672— Liners (Chute)

Manganese Steel Rail Co. (Manganese Steel), 30 Church, New York

## 5673—Linings (Blast Furnace)

(See Brick, Blast Furnace)

## 5673a—Linings (Brick, Lime & Pottery Kiln)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg, Phila., Pa. Works, Maurer, N. J. (See adv., Front Inside Cover)

## 5674— Linings (Case)

Keystone Roofing Co. (Waterproof, Duplex & Single Coated), York, Pa.

## 5675—Linings (Cement Kiln)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv., front inside cover)

## 5676— Linings (Digester)

Stebbins Engineering & Mfg. Co., Watertown, N. Y.

## 5677— Linings (Flue)

(See also Pipe, Sewer)

American Clay Products Co., 138 Washington, Chicago, Ill.
America Sewer Pipe Co., Akron, O.
Birmingham Fire Brick Works, Birmingham, Ala.
Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
Buckeye Fire Clay Co., Uhrichsville, O.
California Clay Mfg. Co., Los Angeles, Cal.
Cannelton Sewer Pipe Co., Cannelton, Ind.
Carnegie Brick & Pottery Co., San Francisco, Cal.
Chattanooga Sewer Pipe & Brick Co., Chattanooga, Tenn.
Clearfield Clay Working Co., Clearfield, Pa.
Clark, N. & Sons, 116 Natoma, San Francisco, Cal.
Crown Fire Clay Co., Canal Dover, O.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
Duffy, J. P. Co., 440 E 138th, New York
East Ohio Sewer Pipe Co., Irondale, O.
Evens & Howard Fire Brick Co., St. Louis, Mo.
Federal Clay Mfg. Co., B'way & 23d, New York
Fiske & Company (Inc.) (Mfrs.' Agents), 25 Arch, Boston, Mass., & Flat Iron bldg, New York
Gladding, McBean & Co., San Francisco, Cal.; Works, Lincoln, Cal.
Golden Pressed & Fire Brick Co., Denver, Colo.
Iowa Pipe & Tile Co., Des Moines, Ia.
Klotz, A. E. Fireproofing Co., 137th & Madison av, New York
Laclede-Christy Clay Products Co., St. Louis, Mo.
Little Falls Fire Clay Co., Little Falls, Wash.
Macomb Sewer Pipe Co., Macomb, Ill.
**MAURER, HENRY & SON, 420 E 23d,** New York; Penna. bldg, Philadelphia, Pa.; Works, Maurer, N. J. (See adv. Front Inside Cover)
National Terra Cotta Works, Washington, D.C.
New York Pottery Co., 949 B'way, New York
Oconee Brick & Tile Co., Milledgeville, Ga.
Parker & Russell Mining & Mfg. Co., 722 Chestnut, St. Louis, Mo.
Patton Clay Mfg. Co., Patton, Pa.
Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
Pomona Terra Cotta Co., Pomona, N. C.
Reeve, Augustus, Camden, N. J.
Robinson Clay Product Co., Akron, O.
Rochester Sewer Pipe Co., Rochester, N. Y.
St. Marys Sewer Pipe Co., St. Marys, Pa.
Shawmut Clay Mfg. Co. ("Shawmut"), Drummond, Pa., & 182 B'way, New York
Southern Sewer Pipe Co., Birmingham, Ala.
Southern Terra Cotta Works, Atlanta, Ga.
Steiger Terra Cotta & Pottery Works (Terra Cotta), San Francisco, Cal.
Stevens, H. Sons Co., Macon, Ga.
Stratton Fire Clay Co., Empire, O.
Streator Clay Mfg. Co., Streator, Ill.
Uhl Pottery Co., Evansville, Ind.
Union Sewer Pipe Co., McKeesport, Pa.
Vigo Clay Co., Terra Haute, Ind.
Williams, N. A. & Co., Chamber of Commerce bldg, Chicago, Ill.

## 5678—Linings (Ladle Cinder Car)

Marshall Foundry Co., Pittsburg, Pa.

## 5679— Links (Connecting)

Brewer Bros. (Wrought Open), 614 Filbert, Phila., Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Keystone Drop Forge Works ("Keystone" Open Link), Chester, Pa.
Laughlin, Thos., Co., Portland, Me.
Marine Hardware & Equipment Co. ("Acme" Drop Forged), South Portland, Me.
Wilcox, Crittenden & Co. (Drop Forged), Middletown, Conn.

## 5680— Links (Drag)

**DETROIT SCREW WORKS (Fore & Aft),** 348 Franklin, Detroit, Mich. (See adv. index, end of book)

## 5681—Links for Conveyor Chains

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.
Scranton Forging Co., Scranton, Pa.

## 5682— Links (Fusible)

Appleton Electric Co. ("Appleton," Tested Open), 212 N Jefferson, Chicago, Ill.
Chicago Fuse Mfg. Co. ("Union"), 1014 W Congress, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Smith, F. F. Metal Window Hdw. Co. (For Fireproof Windows, etc.), Newark, N. J.

## 5683— Links (Split)

Plume & Atwood Mfg. Co., Waterbury, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

## 5684—Links & Pins (Coupling)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 Broadway, New York
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Champion Rivet Co., Cleveland, O.
Harris, Wm. & Son Co., N S, Pittsburg, Pa.
Helmbacher Forge & Rolling Mills Co., St. Louis, Mo.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Logan Iron & Steel Co., Burnham, Pa.
New Castel Forge & Bolt Co., New Castle,
Oliver Iron & Steel Co., Pittsburg, Pa. Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Tredegar Co., Richmond, Va.
Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

## 5685— Linoleum Mfrs.

American Linoleum Mfg. Co., 366 5th av, New York, & Linoleumville, Borough of Richmond, N. Y. City
American Oil Cloth Co., 262 Canal, New York. Works: Salem, N. J.
Armstrong Cork Co. (Linoleum Dept.), Pittsburg, Pa. Factory: Lancaster, Pa.
Beuttell, Henry & Son ("Greenwich," Inland, etc.), 133 5th av New York
Blabon, Geo. W. Co., 34 N 5th, Phila., Pa.
Farr & Bailey Mfg. Co., Camden, N. J.
Germania Importing Co. ("Anchor," Inlaid, Imported), 41 Union sq, New York
Judson, P. O. & Co. ("Rixdorfer" Parquet. Inlaid, etc.), 114 5th av, New York
Keveney, T. J. & Co. ("Key" Brand, Inlaid, Imported), 127 Duane, New York
Nairn Linoleum Co., Kearny, N. J.
National Linoleum Co., Trenton, N. J.
Potter, Thos. Sons & Co. (Inc.), 522 Arch, Phila., Pa., & 41 Union sq, New York
Standard Inlaid Mfg. Co. ("Inlaid"), Trenton, N. J.
Trenton Oil Cloth & Linoleum Co. ("Cook's"), Trenton, N. J.
United Roofing & Mfg. Co., West End Trust bldg, Phila., Pa.

## 5686—Linseed Oil & Cake Mills

(Marked with a (*) are Independent Mills)

### CALIFORNIA.

BERKELEY—El Dorado Oil Works Co. (W.B.)
SAN FRANCISCO—*Pacific Oil & Lead Works, 155 Townsend

### ILLINOIS.

CHICAGO—American Linseed Co., 84 Van Buren
*Chicago White Lead & Oil Co., 821 Fulton
Grace Varnish Co., 1014 Larrabee
Hirst & Begley Linseed Co., 2013 Mendell
*National Lead Co., 900 W 18th

### INDIANA.

INDIANAPOLIS—Evans Linseed Oil Works
SOUTH BEND—O'Brien Varnish Co.

### MICHIGAN.

DETROIT—American Linseed Co., Leib e Wight
*National Lead Co., 81 Woodbridge

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### MINNESOTA.

MINNEAPOLIS—American Linseed Co., Main Office, N. Y. City
Archer-Daniels Linseed Co.
Midland Linseed Co.
Minnesota Linseed Oil Co.
*Northern Linseed Oil Co.
RED WING—Red Wing Linseed Co.
ST. PAUL—American Linseed Co.

### MISSOURI.

KANSAS CITY—American Linseed Co. Main Office, N. Y. City
*National Lead Co.
ST. LOUIS—American Linseed Co., Main Office, N. Y. City
*Brown, R. B. Oil Co., 112 N 4th
*Mound City Paint & Color Co., 811 N 6th

### NEBRASKA.

OMAHA—American Linseed Co., Main Office, N. Y. City
*National Lead Co.

### NEW YORK.

AMSTERDAM—*Kellogg & Miller
BUFFALO—American Linseed Co., W Ganson
*Hauenstein & Co., 37 Vincennes
*Kellogg, Spencer Co.
*Mann Bros. Co., 340 Ohio
*National Lead Co.
NEW YORK—American Linseed Co., 100 William
*National Lead Co., 111 B'way

### OHIO.

CINCINNATI—Burckhardt Co.
Moore, Chas. H. Oil Co., York & McLean av
*National Lead Co.
CLEVELAND—Harshaw, Fuller & Goodwin Co., Electric bldg
*National Lead Co.
TOLEDO—Metzger Seed & Oil Co.
Toledo Linseed Oil Works

### OREGON.

PORTLAND—Portland Linseed Oil Works

### PENNSYLVANIA.

FRANKLIN—*Riesemann Mfg. Co., Ltd.
PENNSBURG—*Hillegass & Krauss
PHILADELPHIA—Grove Linseed Oil Co., Delaware av & Bigley
*Lewis, John T. & Bros. Co., 231 S Front
PITTSBURG—National Lead & Oil Co. (of Penna.) (Raw, Boiled & Refined)

### WISCONSIN.

MILWAUKEE—*Goodrich, Wm. & Co.

## 5686—Liquids (Bronzing)

(See also Bronzing Liquids)

**INTERNATIONAL SMOKELESS POWder & Chemical Co., 140 Cedar, New York.**

## 5687— Liquors (Iron)

**Cochrane Chemical Co., Boston, Mass.**

## 5688—Listers (Loose Ground, Corn & Potatoes, Two Row)

**Nebraska Mfg. Co. ("Longley"), Lincoln, Neb.**

## 5689—Listers & Corn & Cotton Planters (Riding)

**Avery, B. F. & Sons ("Mr. Bill"), Louisville, Ky.**
**Deere & Mansur Co. ("Deere"), Moline, Ill.**
Eagle Mfg. Co. ("Eagle"), Muskogee, Okla.
**Emerson-Brantingham Co. ("Emerson"), Rockford, Ill.**
**Gale Mfg. Co. ("Sure Drop"), Albion, Mich.**
**Ohio Cultivator Co. ("Ohio Flyer"), Bellevue, Ohio**
**Oliver Chilled Plow Works ("Oliver"), South Bend, Ind.**
**Parlin & Orendorff Co. ("Canton"), Canton, Ill.**
**Racine-Sattley Co. ("Lucky Hit," "Tonapah"), Springfield, Ill., & Racine, Wis.**

## 5690—Listers & Drills (Riding)

**Deere & Co. ("John Deere"), Moline, Ill.**
Deere & Mansur Co., Moline, Ill.
Eagle Mfg. Co. ("Eagle," "Eagle Junior"), Muskogee, Okla.
Emerson-Brantingham Co. ("Emerson"), Rockford, Ill.
**Fort Madison Plow Co. ("Buster Brown," "Morrison," "New Morrison"), Fort Madison, Ia.**
Fuller & Johnson Mfg. Co. ("Climax"), Madison, Wis.
Gale Mfg. Co. ("Great West," "Sure Drop"), Albion, Mich.
Grand Detour Plow Co. ("Grand Detour"), Dixon, Ill.
Hayes Pump & Planter Co. ("Hayes"), Galva, Ill.
Janesville Machine Co. ("Janesville"), Janesville, Wis.
Kingman Plow Co. ("Kingman"), Peoria, Ill.
La Cross Plow Co. ("Defiance"), La Crosse, Wis.
Moline Plow Co. ("Easy Money," "Tri Belle," "Western Belle"), Moline, Ill.
Ohio Cultivator Co. ("Ohio Senior"), Bellevue, Ohio
Oliver Chilled Plow Works ("Oliver"), South Bend, Ind.
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
Peru Plow & Wheel Co. ("Boss," "Little Duke," "Model," "New Duke"), Peru, Ill.
Racine-Sattley Co. ("Little Buster," "Lucky Hit," "Sattley"), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. ("Rock Island," "Emperor," "Tricycle"), Rock Island, Ill.
St. Joseph Plow Co. ("Early Bird," "Famous St. Joe," "Tri-Wheeler"), St. Joseph, Mo.
Sechler, D. M. Implement & Carriage Co. ("Black Hawk"), Moline, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Syracuse Chilled Plow Co. ("Syracuse"), Syracuse, N. Y.

## 5691—Listers & Drill (Riding, Two Row)

**Deere & Co. ("John Deere"), Moline, Ill.**
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
St. Joseph Plow Co. ("Famous St. Joe," "St. Joe"), St. Joseph, Mo.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.

## 5692—Listers & Drill (Walking)

**Deere & Co. ("John Deere"), Moline, Ill.**
Eagle Mfg. Co. ("Eagle"), Muskogee, Okla.
Emerson-Brantingham Co. ("Emerson," "New Emerson"), Rockford, Ill.
Fort Madison Plow Co. ("Morrison"), Fort Madison, Ia.
Fuller & Johnson Mfg. Co. ("Climax," "F. & J."), Madison, Wis.
Gale Mfg. Co. ("Great West"), Albion, Mich.
Grand Detour Plow Co. ("Grand Detour"), Dixon, Ill.
Hayes Pump & Planter Co. ("Hayes"), Galva, Ill.
Kingman Plow Co. ("Kingman"), Peoria, Ill.
Moline Plow Co. ("Puritan"), Moline, Ill.
Ohio Cultivator Co. ("Famous Ohio," "Ohio Junior"), Bellevue, O.
Oliver Chilled Plow Works ("Oliver"), South Bend, Ind.
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
Peru Plow & Wheel Co. ("Peru"), Peru, Ill.
Racine-Sattley Co. ("Sattley"), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. ("Empress"), Rock Island, Ill.
St. Joseph Plow Co. ("Famous St. Joe"), St. Joseph, Mo.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.

## 5693— Litharge

(See also White & Red Lead Mfrs.)

Denver Fire Clay Co., St. Louis, Mo.
Harrison Bros. & Co., Phila., Pa., & New York
Lead Products Co., St. Louis, Mo.
Matheson Lead Co., 182 Front, New York
National Lead Co., 111 B'way, New York
Picher Lead Co. (For Rubber Mfrs., Color Makers, etc.), Joplin, Mo.
Scheel, Wm. H. (For Rubber Mfrs., etc.), 159 Maiden la, New York
Wetherill Bros., 126 S 30th, Phila., Pa.

## 5693a—Litharge (Glass Mfrs)

**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)

## 5694— Lithopone

Avery Chemical Co., 88 Broad, Boston, Mass.
Gabriel & Scholl, 205 Pearl, Boston, Mass.
Grasseli Chemical Co., Cleveland, O.
Heller & Merz Co., 22 Cliff, New York
Krebs Pigment & Chemical Co. ("Krebs"), Newport, Del.
New Jersey Zinc Co., 55 Wall, New York
**SCHULE, F. H. CO., 114 Liberty,** New York. (See adv. index, end of book)
Williams, John T. & Son, Bristol, Tenn.

## 5695— Lixiviation Plants

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 5696— Loaders (Alfalfa)

La Cross Hay Tool Co., Chicago Heights, Ill.
Sterling Mfg. Co., Sterling, Ill.

## 5697—Loaders (Blast Hole)

Cyclone Drill Co. ("Economy"), Orrville, O.

## 5698— Loaders (Box Car)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**Christy Box Car Loader Co. ("Christy"), Des Moines, Ia.**
Dodge, J. M. Co., Nicetown, Phila., Pa.
**Duncan Foundry & Machine Works ("Smith" Gravity), Alton, Ill.**
**Ellison, Wm. & Sons Mfg. Co., 1020 N. 6th, St. Louis, Mo.**
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Fairmont Mining Machinery Co. ("Fairmont" Rotary), Fairmont, W. Va.**
**LINK BELT COMPANY ("Victor"),** Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Litchfield Foundry & Machine Co., Litchfield, Ill.
Ottumwa Box Car Loader Co., Ottumwa, Ia.

## 5698a—Loaders (Coal Car)

**FAIRBANKS, MORSE & CO. (For** Box & Open Cars), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Holmes, Robt. & Bros. (End Loaders), Danville, Ill.
**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Ottumwa Box Car Loader Co. (Steam Portable Box Car, etc.), Ottumwa, Iowa

## 5699—Loaders (Grain Car)

Bauder, E. ("Reynolds"), Sterling, Ill.
Berg, E. O. & Sons Mfg. Co., Madison, Minn.
**CALDWELL, H. W. & SON CO.** ("Champion," "Sterling"), 17th & Western av, Chicago, Ill. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Great Western Mfg. Co., Leavenvworth, Kan.
Ideal Car Loader Co., Allenville, Ill.
Marseilles Mfg. Co. (Hay), East Moline, Ill.
Maroa Mfg. Co. (The "Boss"), Maroa, Ill.
Pease, E. H. Mfg. Co., Racine, Wis.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 5700— Loaders (Hay)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chambers, Bering & Quinlan Co., Decatur, Ill.
Dain Mfg. Co. ("Dains"), Ottumwa, Iowa
Deere & Mansur Co., Moline, Ill.
Hocking Valley Mfg. Co., Lancaster, O.
**INTERNATIONAL HARVESTER CO.** of America ("Keystone," Window & Swath & Window), 280 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Johnston Harvester Co., Batavia, N. Y.**
La Crosse Hay Tool Co. ("Gearless"), Ottumwa, Iowa
Moline Plow Co., Moline, Ill.
Ohio Rake Co. ("Ohio," "Canton," "Dayton"), Dayton, O.

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Porter, J. E. Co., Ottawa, Ill.
Rock Island Plow Co. (Also Combined Rake & Loader), Rock Island, Ill.
Sandwich Mfg. Co. (Clean Sweep), Sandwich, Ill.
Sterling Mfg. Co., Sterling, Ill.
Thomas Mfg. Co., Springfield, O.
Thornburgh Mfg. Co. ("Ohio Valley"), Bowling Green, O.

## 5701— Loaders (Log)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**AMERICAN HOIST & DERRICK CO.** ("American"). St. Paul, Minn. (See adv. index & branch offices, end of book)
Byers, Jno. F. Machine Co., Ravenna, O.
Chattanooga Machine Co., Chattanooga, Tenn.

**Loaders (Log) Steam**
MANUFACTURED BY
**CLYDE IRON WORKS**
DULUTH, MINN.

**CLYDE IRON WORKS (Steam,** "McGiffert," "Decker"), Duluth, Minn. (See adv. index & branch offices, end of book)
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
Diamond Iron Works ("Diamond" Steam & Automatic), Minneapolis, Minn.
**FAIRBANKS, MORSE & CO. (Gasoline),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices. end of book)
Filer & Stowell Co. (Steam), Milwaukee, Wis.
Garland, M. Co. ("The Kline"), Bay City, Mich.
Goodyear Lumber Co. ("Barnhart"), Buffalo, N. Y.
Hill, Wm. E. & Co., Kalamazoo, Mich.
**INTERNATIONAL HARVESTER CO.** of America ("Keystone" Window & Swath & Window; "International" & "Osborne" Rake), 230 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
Lane Mfg. Co. (Steam, also Unloaders & Stops), Montpelier, Vt.
**LIDGERWOOD MFG. CO. (Steam), 96** Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Lyon Iron Works, Greene, N. Y.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO. (Steam),** 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)
Murray, D. J. Mfg. Co., Wausau, Wis.
**NATIONAL IRON CO. ("Forest"),** Duluth, Minn. (See adv. index & branch offices, end of book)
Parker Surry (Steam), Pinetown, N. C.
Phenix Mfg. Co. ("Klines"), Eau Claire, Wis.
Ramming, John Machine Co., St. Louis, Mo.
Raymond Mfg. Co. (Steam), Marinette, Wis.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Soule Steam Feed Works, Meridian, Miss.
Wickes Bros. (Steam), Saginaw, Mich.

## 5702— Loaders (Rail)

United Supply & Mfg. Co. ("American", for Handling Steel Rails), Railway Exchange, Chicago, Ill.

## 5703— Loaders (Wagon)

Austin Mfg. Co. ("New Era"), Manhattan bldg, Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
**INSLEY MFG. CO. (Controllable Car-**Side Hopper), Indianapolis. Ind. (See adv. index & branch offices, end of book)
Lightbody, Thos. ("Lightbody" Rapid Loader), Youngstown, O.
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)
Western Wheeled Scraper Co., Aurora, Ill.

## 5704— Lock Gates (Steel)

Penna. Bridge Co., Beaver Falls. Pa.

## 5705— Lock-Nuts (Brass)

American Pin Co., Waterbury, Conn.
**DETROIT SCREW WORKS, 345** Franklin, Detroit, Mich. (See adv. index, end of book)
Hamlin & Emery Brass Co., Boston, Mass.
**LUNKENHEIMER CO., General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## Lock-Nuts (Conduit, Etc.)

(See Bushings, Outlet & Locknut)

## 5706—Lock-Nuts & Washers

American Lock Nut Co., Oregon, Ill.
Appleton Electric Co. ("Appleton," for Conduits, etc.), 212 N Jefferson, Chicago, Ill.
Automatic Lock Nut Co., Rockford, Ill.
Bourne & Knowles Mfg. Co., Cleveland, O.
Burroughs Railway Nut Lock Co. (Positive Nut Lock), Jacksonville, Fla.
Climax Nut Lock Mfg. Co., 1132 Collins, St. Louis, Mo.
Columbia Nut & Bolt Co. ("Columbia" for Railroads, Machinery, Automobiles, etc.), Bridgeport, Conn.
Eureka Lock Nut Co. ("Bartley"), 32d & Smallman, Pittsburg, Pa.
Garner Nut Lock Co., Houston, Tex.
Grabler Mfg. Co. (Malleable Iron & Steel, for Plumbing & Electric Work)) Cleveland, O.
Grip Nut Co. (One-Piece Steel), Old Colony bldg, Chicago, Ill.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Indianapolis Switch & Frog Co. ("Dunham"), Springfield, O.
Interlocking Nut & Bolt Co. ("Clark" Interlocking for Track, Locomotive, Automobile, etc.), Pittsburg, Pa.
Jones Positive Nut Lock Co., 2812 Wabash av, Chicago, Ill.

**Hendricks' Commercial Register**

IS USED FOR

**Purchasing Purposes**

BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

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National Lock Washer Co., 65 Johnson, Newark, N. J.
National Tube Co. (Cast & Malleable, for Steam, Water, etc.), Pittsburg, Pa.
Newbury, J. H., Goshen, N. Y.
Norlund Mfg. Co., Williamsport, Pa.
P. & M. Co. ("Smith", for Electric Railways, etc.), Railway Exchange bldg, Chicago, Ill.
Peninsular Milled Screw Co., Detroit, Mich.
Philadelphia Electrical & Mfg. Co. ("Pemco," Malleable Iron Washers with Nut-Locking Feature Added), 1232 N 31st, Phila., Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Positive Lock Washer Co., Ave, A, Newark, N. J.
Rail Joint Co., 29 W 34th, New York
Railway Lock Nut Co. ("Bull Dog"), Monadnock bldg, Chicago, Ill.
Riverside Steel Spring Co., Riverside, N. J.
Ruffner & Son (Automotic, Single & Double), Falls of Schuylkill, Phila., Pa.
Scott Mfg. Co., Racine, Wis.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Smith Improved Lock Nut Co. ("Smith," "Never Works Loose," Spring Steel, Oil Tempered, for Railroads, Machinery, etc.), Rockford, Ill.
Spiral Nut Lock Co., New York
United Lock Washer Co. ("Hugtite" Lock Washer), Springfield, Mass.
Verona Tool Works ("Verona," Nut-Lock), Pittsburg, Pa., & Verona, Pa.
Weisell Nut Lock Co. (Inc.) ("Weisell"), Republic bldg, Chicago, Ill.
Western Tool & Forge Co., Brackenridge, Pa.

## 5707—Lockers (Expanded Metal)

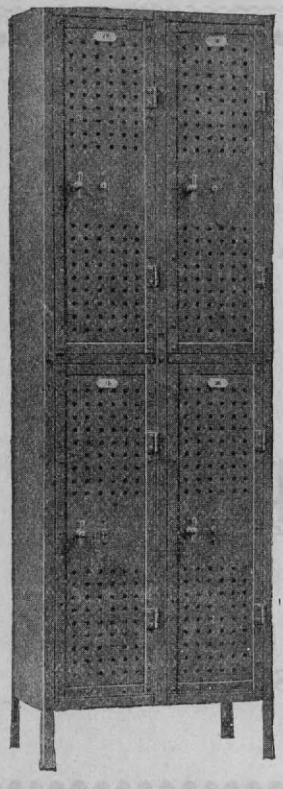
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. See adv. index, end of book)
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)


**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.


## 5708— Lockers (Metallic)

**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buffalo Wire Works Co., Buffalo, N. Y.
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
Chicago Builders Specialties Co., 84 Van Buren, Chicago, Ill.
**DAHLSTROM METALLIC DOOR CO.** (Hollow Metal, Imitation of Wood Finish), Jamestown, N. Y. (See adv. index & branch offices, end of book)
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
**DURAND STEEL LOCKER CO. ("Durand" Steel),** American Trust bldg, Chicago, Ill., & Vanderbilt bldg, New York. (See adv. index, end of book)
Federal Steel Fixture Co. ("Federal" Steel), 4545 W Homer, Chicago, Ill.
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
**HART & COOLEY CO. ("H. & C."** Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
Hennecke, C. Co. (Sheet Metal & Wire), Milwaukee, Wis.
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Jefferis, Richard Co. ("Jefferis," Pressed Steel), Camden, N. J.
Keighley, S., Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
Library Bureau, 530 Atlantic, Boston, Mass.
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Manufacturing, Equipment & Engineering Co. ("Cyl-Me-Co."), So Framingham, Mass.

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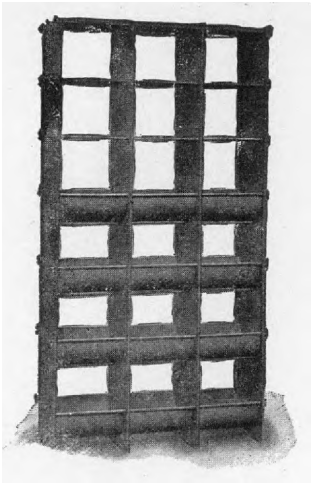
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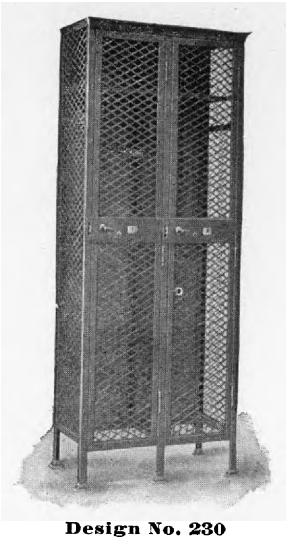
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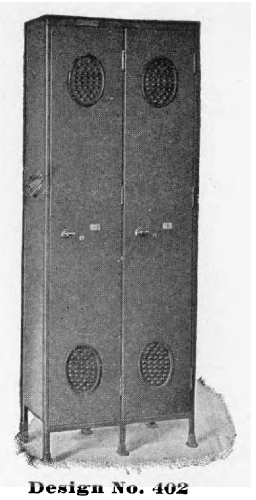

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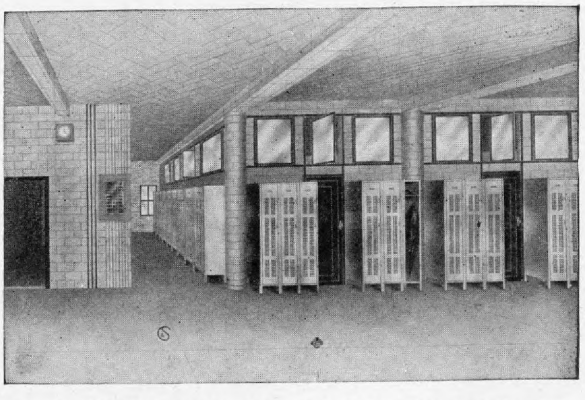
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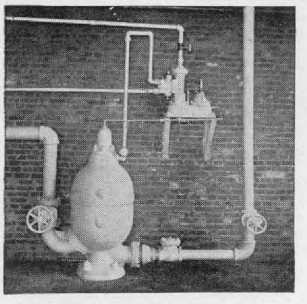
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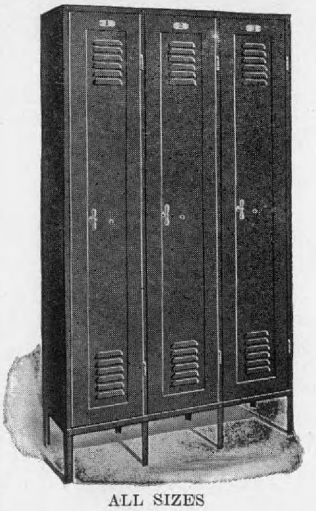
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Mesker & Bro., 421 S 6th, St. Louis, Mo.
Narragansett Machine Co., Providence, R. I.
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
Northwestern Roofing Cornice & Stamping Works, Minneapolis, Minn.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**ST. LOUIS SALES CO. (Mfrs. Agents),** 1224 Chemical bldg, St. Louis, Mo. (See adv. index, end of book)
Steel Equipment Co., Montgomery, Ala.
Steel Fixture Mfg. Co., Topeka, Kan.
**TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)**
**TERRELL'S EQUIPMENT CO. ("Terrell's"),** Grand Rapids, Mich. (See adv. index, end of book)
Van Dorn Iron Works Co. (Steel), Cleveland, O.
Willcox Engineering Co., Saginaw, Mich.

## 5709—Lockers (Sheet Steel, Imitation of Wood Finish)

**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## 5710— Locks

(See also Hardware Manufacturers)

Ahrend, Herman & Son, Newark, N. J.
American Toy & Novelty Mfg. Co. ("Tacoma") 216 W Indiana, Chicago, Ill.
Barrows Lock Co., Lockport, Ill.
Bates, L. L., & Co. (Safe), Boston, Mass.
Blake, Ira G. (Time Lock), Worcester, Mass.
Bohannan, Wilson, 760 Lex. av, Brooklyn, N. Y.
Branford Lock Works, Branford, Conn.
Brass Goods Mfg. Co. (Refrigerator), Nevins c Union, Brooklyn, N. Y.
Champion Safety Lock Co., Geneva, O.
Chicago Hardware Co., North Chicago, Ill.
Clark, H. E. & Bros. ("Clark's" Emergency Exit Door Lock), Rochester, N. Y.
Climax, J. H. W. Co., Newark, N. J.
Corbin Cabinet Lock Co., New Britain, Conn.
Dayton Mfg. Co., Dayton, O.
Deitz, Alonzo E. (Drawer, Store Door, Padlock, etc.), 73 Clymer, Brooklyn, N. Y.
Eagle Lock Co. (Cabinet, Trunk & Padlock), Terryville, Conn.
Forsyth Mfg. Co. (Combination), 41 Chandler, Buffalo, N. Y.
Fraim, E. T., Lock Co. (Padlocks), Lancaster, Pa.
Gibson & Kirk Co., 517 E Montgomery, Baltimore, Md.
Gonce Lock Mfg. Co. (Keyless), Chattanooga, Tenn.
Hall, Wm. & Co. (Asylum & Prison), 4 Dock sq, Boston, Mass.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Huebel Mfg. Co., Newark, N. J.
Indianapolis Lock Co. (Post Office), Indianapolis, Ind.
Ives, Hobart B. Co. (Sash), New Haven, Conn.
Keil, Francis & Son, 401 E 163d, New York
Keyless Lock Co., Indianapolis, Ind.
Keystone Lock Works, 234 Ionic, Phila., Pa.
Lockwood Mfg. Co., S. Norwalk, Conn.
Loeffelholz Co. (Car. & Switch), Milwaukee, Wis.
McCormick Mfg. Co. ("Dayton" Cantpick for Doors), Dayton, O.
Michigan Mfg. Co., Ypsilanti, Mich.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Miller, J. Walter (Padlocks), Lancaster, Pa.
Miller Lock Co. (Keyless Padlock, Car Switch, etc.), 4523 Tacony, Phila., Pa.
National Lock Co. (Cabinet), Rockford, Ill.
New England Lock & Hinge Co., Winchendon, Mass.
Nock, G. W. Co., 126 N 4th, Phila., Pa.
Norwalk Lock Co., South Norwalk, Conn.
Ochsner, A. & Son (Automobile & Carriage), New Haven, Conn.
Payson, Edward Mfg. Co., Traverse City, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co. ("Heinzmann" Cylinder Dead Knob), Reading, Pa.
Phoenix Lock Works, Newark, N. J.
Reading Hardware Co., Reading, Pa.
Romer & Co. (Inc.), Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co. (General Line of Key Locks), New Haven, Conn.
Sargent & Greenleaf Co. (General Line of Key Locks), Rochester, N. Y.
Schroeder, J. B. & Co., Cincinnati, O.
Shelby Spring Hinges Co. (Inside Door, etc.), Shelby, O.
Slaymaker, S. R. (Bicycle, Door, Dead, Dog Collar, Store Door & Padlock), Lancaster, Pa.
Smith & Egge Mfg. Co. (Pad, Mail Box, Sewing Machine and Piano), Bridgeport, Conn.
Star Lock Works, 110 S 8th, Phila., Pa.
Stearns, E. C. & Co., Syracuse, N. Y.
Taylor & Boggis Foundry Co., Cleveland, O.
Thomas, T. & Co., Newark, N. J.
Tiebout, W. & J. (Brass), 118 Chambers, New York
Tower & Lyon Co., 95 Chambers, New York
Troetel Burglar Alarm Lock Co. ("Troetel," Burglar Alarm), 311 W 59th, New York
United States Steel Lock Co., Lyons, Ia.
Wise, J. B. (Sewing Machine & Organ), Watertown, N. Y.
Woodruff, W. W. & Sons Co. (Carriage Door), Mount Carmel, Conn.
Wrightsville Hardware Co. ("Christman Shutter Lock & Bower), Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5711— Locks (Air)

East Jersey Pipe Co., Paterson, N. J.

## 5712— Locks (Air Brake)

Kerschener, W. R. (Automatic), 50 Church, New York

## 5716a— Locks (Bank)

Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5714— Locks (Barn Door)

Schroder, J. B. & Co., 132 E 5th, Cincinnati, O.
Stearns, E. C. & Co. (For Sliding Door), Syracuse, N. Y.
Western Brass Mfg. Works (Iron Japanned & Brass), 21st & Rockwell, Chicago, Ill.

## 5715— Locks (Bicycle)

Corbin Cabinet Lock Co., New Britain, Conn.
Slaymaker Lock Mfg. Co., Lancaster, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5716— Locks (Box)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
U. S. Box Lock Co. ("Beechler", "Climax", "A. B.", Inside, "Improved Leo", "B. B."), St. Louis, Mo.

## 5716a— Locks (Cabinet)

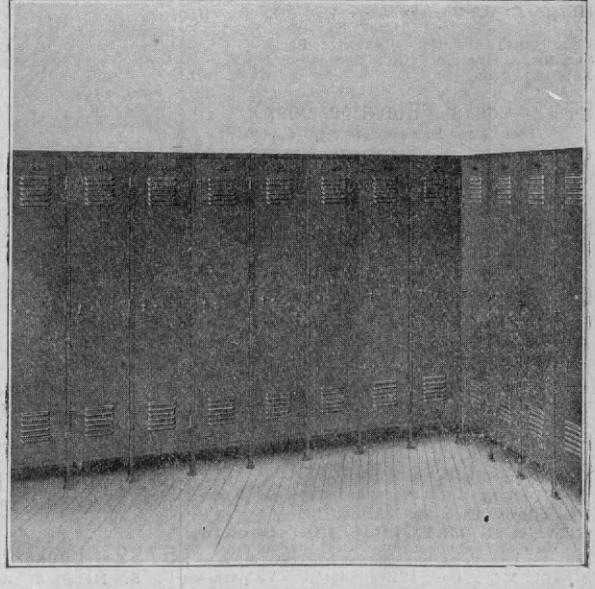
Corbin Cabinet Lock Co., New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
National Lock Co. (Flat Key, Machine & Wordrobe), Rockford, Ill.
Penn Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
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## 5717—Locks (Car & Switch)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
American Railway Signal Co. (Electric Switch), Cleveland, O.
American Valve & Meter Co. ("Anderson" Safety Switch), Cincinnati, O.
Bohannan, Wilson, 760 Lexington av, Brooklyn, N. Y.
Climax, J. H. W. Co. (Switch), Newark, N. J.
Creamer, W. G. & Co., 96 John, New York
Dayton Mfg. Co. (Door, Sash, Switch, etc.), Dayton, O.
Detroit Ship Building Co. (Brass Dept.), Detroit, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
General Railway Signal Co., Rochester, N. Y.
Loeffelholz Co., Milwaukee, Wis.
Miller, J. B. Lock Co., 4519 Tacony, Phila., Pa.
Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co. (Car Door Only), New Britain, Conn.
Sargent & Co., New Haven, Conn.
Slaymaker, S. R., Lancaster, Pa.

## Locks (Clothes Locker)

(See Locks, Locker)

## 5718— Locks (Cupboard)

Eagle Lock Co., Terryville, Conn.
Penn Hardware Co., Reading, Pa.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5719— Locks (Desk)

Eagle Lock Co. (Roll Top, etc.), Terryville, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5720— Locks (Dog Collar)

Corbin Cabinet Lock Co. (Padlock, etc.), New Britain, Conn.
Huebel Mfg. Co., Newark, N. J.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Tower & Lyon Co., 95 Chambers, New York

## 5721— Locks (Drawer)

Deitz, Alonzo E. (Cast & Wrought Brass, also Self-Locking), 73 Clymer, Brooklyn, N. Y.
Eagle Lock Co. (Pen Tumbler, etc.), Terryville, Conn.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Penn Hardware Co., Reading, Pa.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5722—Locks (Elevator Door)

(See also Elevator Safety Locks)

**CHISHOLM & MOORE MFG. CO.** ("Moore's" Reversible Square), 49th & Lake, Cleveland, O. (See adv. index, end of book)

## 5723— Locks (Hasp)

Prouty, T. C. Co. (Ltd.), Albion, Mich.

## 5724— Locks (Keyless)

Dayton Keyless Lock Co., Dayton, O.
**DURAND-STEEL LOCKER CO.** ("Durand"), American Trust bldg, Chicago, Ill., & Vanderbilt bldg, New York. (See adv. index, end of book)
Keyless Lock Co., Indianapolis, Ind.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.

## 5725— Locks (Lamp)

(For Locking Incandescent Lamps in Socket)

Davis Bros. Elec. Co., Alton, Ill.
**GENERAL ELECTRIC CO.** (Locking Socket), Schenectady, N. Y. (See adv. index & branch offices, end of book)
McGill Mfg. Co. ("Protector"), Valparaiso, Ind.

## 5725a— Locks (Locker)

Corbin Cabinet Lock Co., New Britain, Conn.
**DURAND-STEEL LOCKER CO.,** American Trust bldg, Chicago, Ill., & Vanderbilt bldg, New York. (See adv. index, end of book)
Eagle Lock Co., Terryville, Conn.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's Keyless), Kent, O.
Miller Lock Co., 4523 Tacony, Phila., Pa.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5726—Locks (Master Keyed)

Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5727— Locks (Oar)

Durkee, Chas. D. & Co., 2 South, New York
Greene, Tweed & Co., 109 Duane, New York
Laughlin, Thos. & Co., Portland, Me.
Malleable Iron Fittings Co., Branford, Conn.
Marine Hardware & Equipment Co., So. Portland, Me.
Mark Mfg. Co., Evanston, Ill.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Pratt & Letchworth Co., Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 5728— Locks (Padlock)

Ames-Sword Co. ('Perfection'), Chicopee, Mass.
Bohannan, Wilson, 760 Lexington av, Brooklyn, N. Y.
Chapman, W. H. Co., Middletown, Conn.
Climax, J. H. W. Co., Newark, N. J.
Corbin Cabinet Lock Co. (Wrought & Cast), New Britain, Conn.
Dayton Mfg. Co., Dayton, Ohio
Deitz, Alonzo E. (Bronze Metal), 73 Clymer, Brooklyn, N. Y.
Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
Eagle Lock Co., Terryville, Conn.
Edwards, O. M. Co. (Heavy Bronze), Syracuse, N. Y.
Fraim, E. T., Lock Co., Lancaster, Pa.
Gibson & Kirk Co., Baltimore, Md.
Huebel Mfg. Co., Newark, N. J.
Mallory-Wheeler Co., New Haven, Conn.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Miller, J. Walter, Lancaster, Pa.
Miller Lock Co. (Large Assortment of Styles), 4523 Tacony, Phila., Pa.
National Mfg. & Lock Co. ("Katz"), 215 W Huron, Chicago, Ill.
Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn.
Safe Padlock & Hardware Co., Lancaster, Pa.
Sargent & Co., New Haven, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Schroder, J. B. & Co., 132 E 5th, Cincinnati, Ohio
Slaymaker, S. R., Lancaster, Pa.
Smith & Egge Mfg. Co. ("Giant"), Bridgeport, Conn.
Tower & Lyon Co., 95 Chambers, New York
West Mfg. Co. ("Wiseman"), Columbus, O.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5729—Locks (Piano & Sewing Machine)

Eagle Lock Co., Terryville, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.

## 5729a—Locks (Pin Tumbler)

Corbin Cabinet Lock Co., New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
Penn Hardware Co. ("Heizman"), Reading, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5730— Locks (Pole)

Ajax Line Materials Co., So. Milwaukee, Wis.
Cutter, Geo. Co., South Bend, Ind.

## 5731—Locks (Post Office Box)

Eagle Lock Co., Terryville, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.

## 5732— Locks (Rail Joint)

U. S. Metal & Mfg. Co. ("Wolfe", Automatic), 165 B'way, New York

## 5733—Locks (Safe Deposit)

Deitz, Alonzo E. (Vault, Safety Deposit & Inside Safe), 73 Clymer, Brooklyn, N. Y.
**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co. (Handles & Locks), 9 Murray, New York

## 5734— Locks (Sash)

Brohard Co. (Stamped Steel), 3d & Lehigh, Phila., Pa.
Builders' Supply Corp'n ("Samson" Steel), Indianapolis, Ind.
Caldwell Mfg. Co., Rochester, N. Y.
Champion Safety Lock Co. ("Champion" Side & "Monitor" "Never Break" Wrought), Geneva, O.
Chicago Hardware Co., North Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Court Mfg. Co., Marion, O.
Creamer, W. G. & Co. (Railway Car), 96 John, New York
Diehl Novelty Co. ("Little Giant"), Sheboygan, Wis.
Eagle Lock Co. (Sliding, Sash, etc.), Terryville, Conn.
Fitch, W. & E. T. Co., New Haven, Conn.
Gardner Sash Pulley Co. (Steel), 40 Dearborn, Chicago, Ill.
Ives, Hobart B. Co., New Haven, Conn.
Lockwood Mfg. Co., South Norwalk, Conn.
National Lock Washer Co., Newark, N. J.
National Mfg. Co. (All Steel or Solid Brass), Sterling, Ill.
Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.
Penn Hardware Co., Reading, Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Powers Burglar Proof Sash Lock Co., Hastings, Neb.
Pullman Mfg. Co., Rochester, N. Y.
Reading Hardware Co., Reading, Pa.
Richard-Wilcox Mfg. Co., Aurora, Ill.
Rochester Sash Lock Co. (Automatic Steel for R. R. Coaches), Rochester, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Shelby Spring Hinge Co. ("Shelby" Steel & Brass or Bronze, Polished), Shelby, O.
Standard Mfg. Co., Shelby, O.
Stover Mfg. Co. (Burglar Proof), Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
Wolcott Hardware Co., Plantsville, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5435—Locks (Sash, Fireproof)

Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.

## 5736—Locks (Sash, Ventilating)

Cannon Mfg. Co., ("Cannon"), 388 La Salle, Chicago, Ill.
Champion Safety Lock Co., Geneva, O.
Climax Lock & Ventilator Co. ("Climax" & "Simplex" Automatic Ventilaeing), Buffalo, N. Y.
Domestic Utilities Co. ("Holland"), Northampton, Mass.
Harley Borglar Proof Ventilating Sash Lock Mfg. Co., 3341 Ogden av, Chicago, Ill.
Ives, H. B. Co., New Haven, Conn.
Lawson Mfg. Co. ("Matchless" Automatic Burglar Proof), 40 Dearborn, Chicago, Ill.
McCormick Mfg. Co., Dayton, O.
National Mfg. Co. (Ventilating Window Lock), Sterling, Ill.
Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.

## 5737—Locks (Slot Machine)

Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Sargent & Greenleaf Co., Rochester, N. Y.

## 5738— Locks (Stall Door)

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

## 5739— Locks (Store Door)

Deitz, Alonzo E. (Tubular, Mortise, etc.), 73 Clymer, Brooklyn, N. Y.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Penn Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

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## 5740— Locks (Switch)

Wood & Van Nest ("Harrington" Safety Switch Point Lock), 26 Cortlandt, New York

## Locks (Ventilating, Window)

(See Locks, Sash, Ventilating)

## 5741— Locks (Time)

Barnes Safe & Lock Co., Pittsburg, Pa.
Bossert, W. F. Mfg. Co. ("Nickerson" Safety)
Chicago Time Lock Co., 2519 N Francisco av, Chicago, Ill.
Consolidated Time Lock Co., 315 W. 4th, Cincinnati, Ohio.
Diebold Safe & Lock Co., Canton, O.
General Railway Signal Co., Rochester, N. Y.
**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)
Macneale & Urban Co., Hamilton, O.
Mosler Safe Co., Hamilton, O.
Phelps Guardant Time Lock Co. (For Time Service), 114 Liberty, New York
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5742— Locks (Tool Chest)

Eagle Lock Co., Terryville, Conn.
Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Penn Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5743—Locks (Trunk & Suit Case)

Ahrend, Herman & Son, Newark, N. J.
Corbin Cabinet Lock Co., New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
Excelsior Hardware Co., Stamford, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Star Lock Works, 110 S 8th, Phila., Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5744— Locks (Wardrobe)

Eagle Lock Co., Terryville, Conn.
Penn Hardware Co., Reading, Pa.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## Locks (Yale)

(See Locks, Pin Tumbler)

## 5745—Locks & Latches (Sliding Door)

Corbin Cabinet Lock Co., New Britain, Conn.
Dayton Mfg. Co., Dayton, O.
Lane Bros. Co., Poughkeepsie, N. Y.
National Mfg. Co. ("Washburne" Latches for Sliding or Swinging Doors), Sterling, Ill.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Reliance Ball Bearing Door Hanger Co., 1 Madison av, New York
**RICHARDS-WILCOX MFG. CO.** ("Richards-Wilcox" Self-Closing Fire Door), 3d & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5746—Locks & Locking Device (Prison Cell)

**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Climax, J. H. W. Co., Newark, N. J.
Ham, L. M. & Co., Boston, Mass.
Pauly Jail Building Co., St. Louis, Mo.
Sargent & Greenleaf Co., Rochester, N. Y.
Stewart Jail Works Co., Cincinnati, O.
Van Dorn Iron Works Co., Cleveland, O.
Yale & Towne Mfg. Co., 9 Murray, New York

## 5747—Locomotive Bell Ringers

Adreon Mfg. Co. ("Security"), St. Louis, Mo.
**CHICAGO PNEUMATIC TOOL CO.** ("Little Giant", Pneumatic), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Hammett, H. G. ("Trojan" Air or Steam), Troy, N. Y.
Heginbottom & Sons (Automatic), Saginaw, Mich.
Smedley Steam Pump Co. (Automatic), Dubuque, Iowa
United States Metallic Packing Co. (The Gollmar, 427 N 13th, Phila., Pa.
Ward-Packer Supply Co., Fisher bldg, Chicago, Ill.
Western Railway Equipment Co. ("Western", Pneumatic), St. Louis, Mo.
Vissering, Harry & Co., 77 Jackson blvd, Chicago, Ill.

## 5748—Locomotive Coaling Stations

(See also Coal & Ore Handling Machinery)
**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N E, Cleveland, O., & 50 Church, New York. (See adv. index, end
Dempey-Degener Co., Pittsburg, Pa. of book)
Dodge, J. M. Co., Nicetown, Phila., Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 5749—Locomotive Detachable Boiler

Detachable Boiler Flue Co., Minneapolis, Minn.

## 5750—Locomotive Fire Kindler

Railway Materials Co. ("The Ferguson", Portable), Old Colony bldg, Chicago, Ill.

## 5751—Locomotive Guide Liners

**STARRETT, L. S., CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 5752—Locomotive Jacket Iron & Steel

American Sheet & Tin Plate Co. ("Wood's" Planished), Frick bldg, Pittsburg, Pa.
Wood, Alan, Iron & Steel Co. (Cold Rolled Steel), 1421 Chestnut, Phila., Pa.
Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.

## 5753— Locomotive Lagging

Carey, Philip Mfg. Co., Lockland, O.
Ehret Magnesia & Mfg. Co. (Magnesia), Land Title bldg, Phila., Pa.
Franklin Mfg. Co. (Also Air Pump Cylinder Lagging), Franklin, Pa.
**JOHNS, H. W.-MANVILLE CO. ("Magnesia", "Asbestos", "Fire Felt"),** 100 William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co. (Magnesia & Asbestos), Ambler, Pa.
New York Asbestos Mfg. Co., 80 John, New York
**WATSON, H. F. CO., Erie, Pa.** (See adv. index & branch offices, end of book)

## 5754— Locomotive Netting

**MICHIGAN WIRE CLOTH CO., De**troit, Mich. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See adv. index & branch offices, end of book)

## 5755— Locomotive Oil Cups

(See also Lubricators, Oil & Grease Cup)
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
**LUNKENHEIMER CO., General Of**fices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan"), Detroit, Mich.
Powell, Wm. Co., Cincinnati, O.

## 5756— Locomotive Sanders

(See also Boxer, Sand)
American Locomotive Sander Co. ("Leach," "Dean," "Houston," "She," "Curtis," "Sherbourne" & "Austin"), 13th & Willow, Phila., Pa.
Dodge Sander Co., Worcester, Mass.
Economy Locomotive Sander Co., Baltimore, Md.
Hanlon Locomotive Sander Co. ("Hanlon"), Winchester, Mass.
Jewett Car Co., Newark, O.
**MACLEOD, WALTER & CO. (Pneu**matic), 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Mann-McCann Co. ("N. W." Air), Fisher bldg, Chicago, Ill.
Ridlon, Frank Co. ("Kilbourne" for Electrical Railways, etc.), 251 A, Boston, Mass.
Traction Equipment Co. ("Hammond", also "Street Corner Sander"), 72 Grand av, Brooklyn, N. Y.
**Western Railway Equipment Co. ("Mudd,"** Pneumatic Track Sanders), Missouri Trust bldg, St. Louis, Mo.

## 5757—Locomotive Spring Balances

Star Brass Mfg. Co., Boston, Mass.

## 5758— Locomotive Stokers

Day-Kincaid Stoker Co. ("The Kincaid"), Cincinnati, O.
Locomotive Stoker Co., 204 Dearborn, Chicago, Ill.

## 5759— Locomotive Tiles

Akron Fire Brick Co., Akron, O.
American Arch Co.( Solid & Hollow Brick Arches), 30 Church, New York
American Locomotive Equipment Co. ("Wade-Nicholson", Hollow Arch, etc.), 193 Michigan av, Chicago, Ill.
Buckeye Fire Clay Co., Uhrichsville, O.
Chicago Retort & Fire Brick Co., 115 Adams, Chicago, Ill.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Denver Fire Clay Co., 1742 Champa, Denver, Col.
Evans & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
Fiske & Co. (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York
Fulton Fire Brick Co., Fulton, Mo.
Garden City Sand Co., Chamber of Commerce bldg, Chicago, Ill.
Garfield Fire Clay Co., Robinson, Pa.
**HARBISON-WALKER REFRACTOR**ies Co. (All Types of Locomotive Fire Brick), 1823 Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book.
Killian Fire Brick Co., Killian, S. C.
Laclede-Christy Clay Products Co., St. Louis, Mo.
Lincoln Fire Brick & Shape Co., Farmers' Bank bldg, Pittsburg, Pa.
**MAURER, HENRY & SON, 420 E 23d,** New York; Penna bldg, Philadelphia, Pa.; Works, Maurer, N. J. (See adv. Front Inside Cover)
**MISSISSIPPI GLASS CO., 115 B'way,** New York. (See adv. index & branch offices, end of book)
Mutton Hollow Fire Brick Co., Woodbridge, N. J.
**NATIONAL FIREPROOFING CO., Fulton** bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Newton-Perkins Fire Brick Co., Albany, N. Y.
Ostrander Fire Brick Co., Troy, N. Y.
Parker-Russell Mining & Mfg. Co., 722 Chestnut, St. Louis, Mo.
Perth Amboy Fire Brick Co., Perth Amboy, N. J., & 114 Liberty, New York
Remmey, Richard Sons Co., Hedley & Del River, Phila., Pa.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)
St. Louis Vitrified & Fire Brick Co., St. Louis, Mo.
Stevens, H. Sons Co., Macon, Ga.
Superior Fire Lining Co., Trenton, N. J.
Washington Brick, Lime & Mfg. Co., Spokane, Wash.

## 5780— Locomotives

American Locomotive Co., 30 Church, New York
Baldwin Locomotive Works, 500 N Broad, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Heisler Locomotive Works, Erie, Pa.
Kilby Locomotive & Machine Works (Logging), Anniston, Ala.

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Lima Locomotive & Machine Co., Lima, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Porter, H. K. Co., Union B'k bldg, Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

**WESTINGHOUSE ELECTRIC & MFG.** Co. (Electric), Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5781—Locomotives (Alcohol)

Milwaukee Locomotive Mfg. Co., Milwaukee, Wis.

## 5782—Locomotives (Compressed Air)

Baldwin Locomotive Works, 500 N Broad, Phila., Pa.

Porter, H. K. (Industrial), Union Bank bldg, Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
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## 5783—Locomotives (Contractors')

(See Locomotives, Industrial & Mine)

## 5784—Locomotives (Dirt Road)

Avery Mfg. Co. ("18, 20, 22, 30 & 40 h. p."), Peoria, Ill.

Buffalo Pitts Co., Buffalo, N. Y.

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Geiser Mfg. Co., Waynesboro, Pa.

Port Huron Engine & Tresher Co. (Traction), Port Huron, Mich.

Russell & Company, Massillon, O.

## 5785—Locomotives (Electric)

American Locomotive Co., 30 Church, New York

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O.** (See adv. index, end of book)

Baldwin Locomotive Works, 500 N Broad, Phila., Pa.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.

Hunt, C. W. Co. (For Industrial Railways), West New Brighton, S. I., N. Y.

**JEFFREY MFG. CO. (Industrial, Mine, etc.), Columbus, O.** (See adv. index & branch offices, end of book)

McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.

**MEAD-MORRISON MFG. CO., Cambridge, Boston, Mass.** (See adv. index, end of book)

Porter, H. K. Co. (For Industrial Railways), Pittsburg, Pa.

Robins Conveying Belt Co. (Storage Battery), 13 Park pl, New York

**WESTINGHOUSE ELECTRIC & MFG** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
(Industrial), 475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5786—Locomotives (Electric, Mine Haulage)

American Locomotive Co., 30 Church, New York

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O.** (See adv. index, end of book)

Baldwin Locomotive Works, 500 N Broad, Philadelphia, Pa.

Conveying Machinery Co., 120 Liberty, New York

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.

Hunt, C. W. Co. (For Mine Haulage), West New Brighton, S. I., N. Y.

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

Milwaukee Locomotive Mfg. Co., Milwaukee, Wis.

Morgan-Gardner Electric Co., 2640 Shields av, Chicago, Ill.

**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5787—Locomotives (Gasoline)

Dubois Iron Works, Dubois, Pa.

Fate, J. D. Co. ("Hall-Fate-Drennan"), Plymouth, O.

Milwaukee Locomotive Mfg. Co., Milwaukee,

Plymouth Motor Truck Co., Plymouth, O. Wis.

Sheffield Car Co., Three Rivers, Mich.

Termaat & Monahan Co. (Also Kerosene), Oshkosh, Wis.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5788—Locomotives (Geared)

Byers, Jno. F. Machine Co., Ravenna, O.

Climax Mfg. Co. ("Climax"), Corry, Pa.

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Heisler Locomotive Works, Erie, Pa.

Lima Locomotive Machine Co., Lima, O.

## 5789—Locomotives (Industrial & Mine)

(See also Locomotives, Electric Mining)

American Locomotive Co., 30 Church, New York

**ATLAS CAR & MFG. CO. (Electric),** 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)

Byers, Jno. F. Machine Co. (Geared), Ravenna, Ohio

Climax Mfg. Co. (Tramway), Corry, Pa.

Conveying Machinery Co., 120 Liberty, New York

Davenport Locomotive Works, Davenport, Ia.

Faunt Le Roy Elevator Co., Baltimore, Md.

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Glover Machine Works, Marietta, Ga.

Heisler Locomotive Works (Geared), Erie, Pa.

Hunt, C. W. Co., W Brighton, S. I., N. Y.

**JEFFREY MFG. CO. (Electric), Columbus, O.** (See adv. index & branch offices, end of book)

Lima Locomotive & Machine Co. ("Shay" Geared), Lima, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Porter, H. K. Co. (Steam, Electric & Pneumatic), Union Bank bldg, Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

**WESTINGHOUSE ELECTRIC & MFG.** Co. (Electric), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5790—Locomotives (Logging)

American Locomotive Co., 30 Church, New York

Climax Mfg. Co. (Tramway), Corry, Pa.

Davenport Locomotive Works, Davenport, Ia.

Dilley Foundry Co., Pine Bluff, Ark.

Heisler Locomotive Works, Erie, Pa.

Kilby Locomotive & Machine Works, Anniston, Ala.

Lima Locomotive & Machine Co. ("Shay" Geared & Direct Connected), Lima, O.

Porter, H. K. Co., Pittsburg, Pa.

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**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 5791—Locomotives (Oil Burning)

American Locomotive Co., 30 Church, New York

Baldwin Locomotive Works, 500 N Broad, Phila., Pa.

Davenport Locomotive Works, Davenport, Ia.

Porter, H. K. Co., Union Bank bldg, Pittsburg, Pa.

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**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Southern Locomotive & Car Mfg. Co., Valdosta, Ga.

## 5791a—Locomotives (Pneumatic)

(See Locomotives, Compressed Air)

## 5792—Locomotives (Rebuilt)

East St. Louis Locomotive & Machine Shop Co., East St. Louis, Ill.

Georgia Locomotive Co., Atlanta, Ga.

Grant Locomotive & Car Works, Houston, Tex.

Punxsutawney Foundry & Machine Co. (Light Locomotives), Punxsutawney, Pa.

Raleigh Iron Works Co., Raleigh, N. C.

Rothfuss-Howard Iron Co., Williamsport, Pa.

Roanoke Iron Works, Roanoke, Va.

## Locomotives (Second Hand)

(See Railroad Equipments, Second-Hand)

## 5793—Locomotives (Storage Battery)

**ATLAS CAR & MG. CO., 1289 Marquette rd, N E, Cleveland, O.** (See adv. index, end of book)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

## 5794—Locomotives (Traction)

(See Locomotives, Dirt Road; also Engines, Traction)

## 5795—Locomotives & Railways (Miniature)

American Miniature Railway Co. (Toy), Bridgeport, Conn.

Caguey Bros., 72 B'way, New York

Crescent Machine Co. (Scenic Railways), 1152 Trumbull av, Detroit, Mich.

Girard Machine Works (15-inch Gauge), 2616 Girard av, Phila., Pa.

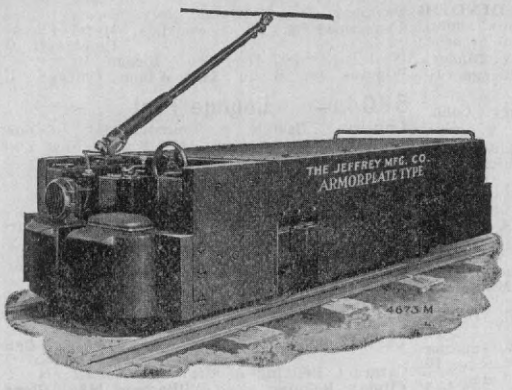
Ingersoll Construction Co., 307 4th av, Pittsburg, Pa.

International Miniature Railway Co., Elgin, Ill.

Ives Mfg. Corp. (Toy), Bridgeport, Conn.

Lancaster Iron Works (Electric), Lancaster, Pa.

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# JEFFREY ELECTRIC LOCOMOTIVES

FOR MINE HAULAGE

Are designed and built to withstand the most severe service encountered in underground or surface haulage.

WRITE FOR CATALOG 17

WE BUILD COMPLETE EQUIPMENTS FOR COAL MINES, TIPPLES AND WASHERIES

## THE JEFFREY MANUFACTURING CO.

Columbus, Ohio

(See adv. index & branch offices, end of book)


Mangels, Wm. F. (Third Rail), 2941 W. 5th, Brooklyn, N. Y.
Miniature Railway Co., 72 B'way, New York
Morris, E. Joy, 1416 Callowhill, Phila., Pa.
Thompson, L. A. Scenic Railway Co., 320 B'way, New York
Parker, C. W., Abilene, Kan.

### 5796— Log Hauls

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American" Friction), Hackettstown, N. J.
Bay City Iron Co., Bay City, Mich.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chandler & Taylor Co., Indianapolis, Ind.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Diamond" Steam & Car Hauls), Minneapolis, Minn.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
International Endless Chain Saw Co., 34 University pl, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Lane Mfg. Co., Montpelier, Vt.
**LINK BELT COMPANY, Hunting** Park av & Reading, Ry. Phila., Pa. (See adv. index & branch offices, end of book)
Mecklenberg Iron Works, Charlotte, N. C.
Memphis Machine Works, Memphis, Tenn.
Parker, Surry (Steam), Pinetown, N. C.
Phoenix Mfg. Co., Eau Claire, Wis.
Puget Sound Iron & Steel Works, Tacoma, Wash.
Southern Engine & Boiler Works, Jackson, Tenn.
Union Iron Works, Bangor, Me.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Wickes Bros., Saginaw, Mich.

### 5797—Log Holders (Drop Stake)

**RUSSEL WHEEL & FOUNDRY CO.** (For Handling Small Logs), Detroit, Mich. (See adv. index, end of book)

### 5798—Log Hooks or Timber Carriers

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Co., Evart, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gerlach, Peter Co., Cleveland, O.
Jackson Shovel & Tool Co. ("Acme"), Montpelier, Vt.
Lane Mfg. Co., Montpelier, Vt.
Morley Bros., Saginaw, Mich.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Scranton Bolt & Nut Co., Scranton, Pa.
Standard Chain Co., Pittsburg, Pa.
Warren Axe & Tool Co., Warren, Pa.

### 5799— Log Jackers

Curtis & Co. Mfg. Co. ("Curtis"), St. Louis, Mo.
Garland, M. Co., Bay City, Mich.
Lane Mfg. Co., Montpelier, Vt.
Phoenix Mfg. Co., Eau Claire, Wis.
Wickes Bros., Saginaw, Mich.

### Log Loaders (Steam)

(See Loaders, Log)

### Log Rollers

(See Loaders, Log)

### 5800— Log Turners

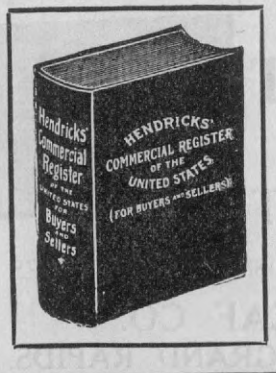
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American"), Hackettstown, N. J.
Challoner Co. ("Simonson"), Oshkosh, Wis.
Chandler & Taylor Co., Indianapolis, Ind.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Edwards Mfg. Co., Laceyville, Pa.
**FILER & STOWELL CO., Milwaukee, Wis.** (See adv. index, end of book)
Garland, M. Co., Bay City, Mich.
Lane Mfg. Co., Montpelier, Vt.
Memphis Machine Works, Memphis, Tenn.
Moltz, Jacob J., Williamsport, Pa.
Phoenix Mfg. Co. (Hills"), Eau Claire, Wis.
Rockwood Mfg. Co., Indianapolis, Ind.
Southern Engine & Boiler Works, Jackson, Tenn.
Trumbull Mfg. Co., Warren, O.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

### 5801— Logging by Steam

(See Cableways, Wire Rope; also Log Hauls; also Engines, Logging)

### 5802— Logs (Gas)

Cassell, Jacob C., 915 Arch, Phila., Pa.
Crane, Wm. M. Co., 16 W. 32d, New York
Galloway, Wm., 3817 Walnut, Phila., Pa.
Gleason, E. P. Mfg. Co. ("Driftwood"), 37 Murray, New York
Hansen, Otto E., Perth Amboy, N. J.


It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of trade that comes within the scope of the work. : : : : : : : : :


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**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)
Marietta Rustic Co., Williamstown, W. Va.
Superior Mfg. Co. (Asbestos), N S, Pittsburg, Pa.

## 5803— Logs (Ship)

Bliss, John & Co., 128 Front, New York
Negus, T. S. & J. D., 140 Water, New York
Nicholson Ship Log Co., 409 Superior av, N W Cleveland, O.
Schuette Recording Compass Co., Manitowoc, Wis.

## 5804—Loose Leaf Devices

American Loose Leaf Co., New York City
American Loose Leaf Mfg. Co., 121 N Green, Chicago, Ill.
Armstrong, H. J. & Co., 302 Dearborn, Chicago, Ill.
**Baker-Vawter Co. (Ledgers), Tribune bldg, Chicago, Ill.**
Benton Mfg. Co., 9 Bethune, New York
**C. S. & R. B. CO. (Post Binders & Aluminum Holders), 3020 Carroll av, Chicago, Ill. (See adv. index, end of book)**
Conolly, Henry Co., Rochester, N. Y.
**Dudley Mfg. Co. ("Dudley" Loose Leaf, Book Pad & Copy Holder), Marion, O.**
Gerlach, J. H., College Point, N. Y.
Hamacher-Hawkins Mfg. Co. ("H-H Duplex", Ring Books, etc.), Kansas City, Mo.
Heinn Co. (Ledgers), Milwaukee, Wis.
**Irving-Pitt Mfg. Co. ("I-P" Ring Binder for Loose Leaf Ledgers, etc.), Kansas City, Mo.**
Johnston, Wm. G. & Co. (Full Line), Penn av & 9th, Pittsburg, Pa., & 396 B'way, New York
Jones Improved Loose Leaf Specialty Co., W Lake & Albany av, Chicago, Ill.
**KALAMAZOO LOOSE LEAF BINDER** Co., Kalamazoo, Mich. (See adv. index, end of book)
McDonald, J. S. Co. (Gravity-Lock Binder), 1745 Irving Park boul, Chicago, Ill.
Mann, Wm. Co., Phila., Pa.
Morden Mfg. Corporation, Waterbury, Conn.
Moore, John C. Corp., Rochester, N. Y.
Nelson Corporation ("Banner" Line), 422 Wells, Chicago, Ill.
Plew & Motter So. ("Verybest"), Operated by Workman Mfg. Co., Centre av & Monroe, Chicago, Ill.
**PROUDFIT LOOSE LEAF CO.** ("Proudfit" Price Book, etc.), Grand Rapids, Mich. (See adv. index & branch offices, end of book)
Razall, H. G. Mfg. Co. (Ledgers), Milwaukee, Wis.
Richmond & Backus Co. (Ledgers), Detroit, Mich.
Rubel Loose Leaf Mfg. Co., 318 W Superior, Chicago, Ill.
Sheppard, C. E. Co., 63 Cliff, New York
Sherick, Henry C., Cincinnati, O.
Shields Loose Leaf Device Co., Braddock, Pa.
Sieber & Trussell Mfg. Co., 4001 Laclede av, St. Louis, Mo.
Skinner & Kennedy Stationery Co., St. Louis, Mo.
**Smith, Chas. C., Exeter, Neb.**
Stationers' Loose Leaf Co., Milwaukee, Wis.
**Tatum, Sam'l C. Co. (Books, Paper Punches, etc.), Cincinnati, O.**
Tenacity Mfg. Co. (Loose Leaf Metal Parts), Cincinnati, O.
Tengwall Co., 4739 E Ravenswood, Chicago, Ill.
Trussell Mfg. Co. (Memo. Books, etc.), Poughkeepsie, N. Y.
Twinlock Co., 95 Duane, New York
Underwood, A. B. (Loose Leaf Metal Parts), Cincinnati, O.
Weil Bros., 302 Dearborn, Chicago, Ill.
Wiggins, Jno. B. Co., 14 E Adams, Chicago, Ill.

## 5804a— Lounge Feet

Universal Caster & Foundry Co. (Copper Bronzed), 1170 B'way, New York

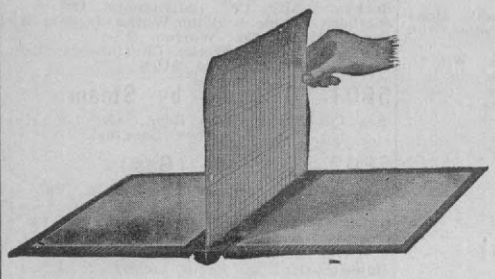
## 5805—Lubricants ("Aquadag," Graphite)

International Acheson Graphite Co., Niagara Falls, N. Y.

## 5806—Lubricants (Automobile)

**Borne, Scrymser & Co. ("Diamond W"), 80 South, New York**
Canfield Oil Co. (Oils & Greases), Cleveland, O.
**Canton Lubricator Mfg. Co. (Grease), Canton, O.**
Cataract Refining & Mfg. Co., Buffalo, N. Y.
**Climax Refining Co., Williamson bldg, Cleveland, O.**
**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)**
Franklin Refining Co., St. Louis, Mo.
Harris, A. W. Oil Co. ("Harris" Oils & Greases), Providence, R. I.
**INDIAN REFINING CO. (Oils &** Greases), 123 William, New York. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO. ("Cupid,"** "Arctic" & "Emblem"), Cincinnati, O. (See adv. index & branch offices, end of book)


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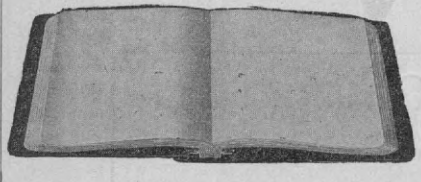


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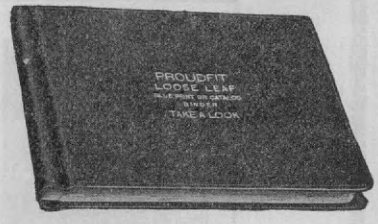
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Miller's, A. D. Sons Co., Pittsburg, Pa.
National Refining Co., Cleveland, Ohio
Robinson, Wm. C. & Son Co. ("Autoline"), Baltimore, Md.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Union Petroleum Co., 135 S 2d, Phila., Pa.
White & Bagley Co. ("Oilzum" Carbonless Cylinder Oils), Worcester, Mass.
World Refining Co., Easton, Pa.

## Lubricants (Commutator)

(See Compounds, Commutator)

## 5807—Lubricants (Gas Engine)

(See Lubricants, Automobile; also Lubricating Oils & Greases)

## 5808—Lubricants (Graphite)

Acheson Oildag Co. ("Oildag", "Aquadag"), Niagara Falls, N. Y.
Adreon Mfg. Co. ("Campbell"), St. Louis, Mo.
Cataract Refining & Mfg. Co., Buffalo, N. Y.
**DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)**
Force Feed Lubricating Co., Milwaukee, Wis.
Graphoil Lubricator Co. ("Graphoil"), 90 West, New York
Harris, A. W. Oil Co. ("Harris" Graphite Grease), Providence, R. I.
International Acheson Graphite Co. ("Aquadag", "Gredag", "Oildag"), Niagara Falls, N. Y.
Monarch Mfg. Co. ("Chaunellene" Graphite Oil), Council Bluffs, Ia.
National Refining Co., Cleveland, Ohio
**STRONG, CARLISLE & HAMMOND** Co. ("Randall" Sheet), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Standard Graphite Co., 11 B'way, New York
U. S. Graphite Co., Saginaw, Mich.

## 5809—Lubricants ("Gredag," Graphite)

International Acheson Graphite Co., Niagara Falls, N. Y.

## 5809a—Lubricants (Lubricene)

Northern Chemical Co. (Not a Liquid), Cleveland, O.

## 5810—Lubricants (Metallic)

**NEW ERA MFG. CO., Kalamazoo,** Mich. (See adv. index, end of book)

## 5811— Lubricants (Mica)

Johnston, Wm. T. Co. ("Flota Mica," for Hot Bearings), Cincinnati, O.
United States Mica Co. (Flake Lubricant), 238 La Salle, Chicago, Ill.
Warren Mica Lubricant Co., Warren, Pa.

## 5812— Lubricants (Oildag)

International Acheson Graphite Co. (Graphite & Mineral Oil), Niagara Falls, N. Y.

## 5813—Lubricants (Roller Bearing)

Royersford Fdry. & Mch. Co. ("Rollerine"), Royerford, Pa.

## Lubricants (Wire Rope)

(See Wire Rope Coating & Lubricant)

## 5814—Lubricating Oils & Greases

### CALIFORNIA.

LOS ANGELES—Hercules Oil Refining Co.
Southern Refining Co. (Oils)
Union Oil Co.
Warren & Bailey Mfg. Co. (Oils)
SAN FRANCISCO—American Oil & Paint Co.
Clinch, C. G. & Co., 156 King 67 Main
Fuller, W. P. & Co., Beale & Mission
King Refining Co. (Engine, Cylinder, etc.), 90 Clay
McGuffick, J. R. & Co. (Oils), 148 Steuart
Nason, R. N. & Co., 151 Potrero av
Valvoline Oil Co., 440 Brannon
Whittier-Coburn Co., Howard & Beale

### CONNECTICUT.

HARTFORD—Post & Lester Co. ("Lubro Visco"), 20 Sargeant

### GEORGIA.

SAVANNAH—Crew-Levick Co. (Oils)

### ILLINOIS.

AURORA—Akron Mining, Milling & Mfg. Co.
CHICAGO—Advance Packing & Supply Co. ("Autoleum"), 123 Franklin
Ajax Lubricating Co., 19 Wabash av
Allen-Murphy Co., 4013 Wentworth av
Almond Lubricating Compound Co., 714 W Jackson boul
Besly, Chas. H. & Co. ("Helmet" Oil), 124 N Clinton
Champion Oil Co. (Engine, Valve & Car Oils, etc.), 633 W 39th
Chicago Engineer Supply Co., 112 Lake
Cosmo Lubricating Co., 155 N Ada
Collins, W. P. & Co., 407 Dearborn
Commercial Lubricating Co., 1635 W 32d pl
Crescent Linseed Oil Works (Natural Lubricating Oils), 1300 W Division
Crew-Levick Co., 1519 Hawthorn
Dearborn Drug & Chemical Works ("Fort Clyde," "Fort Dearborn," "Fort Douglass," "Fort Sheridan" & "Fort Snelling"), McCormick bldg
Frazer Lubricator Co. (Greases), 111 W Michigan
International Oil Refining Co., 500 Wabash
Jenkins, Geo. R. & Co. (Engine, Cylinder, Dynamo, Machine, Oils & Cup, Auto Greases, etc.), 1002 S Canal
Jewett & Sowers, 77 Jackson blvd
Keystone Lubricating Co., 2123 Michigan av
Keystone Oil & Mfg. Co., 1030 W Division
Magie Bros., 155 N Canal
Miller, Wm. P. Co. ("Victory", "American", "Shield" & Universal)
National Refining Co., 407 Dearborn
New York & New Jersey Lubricant Co., 1430 Michigan av
Penn Oil & Supply Co., 1120 N Branch
Producers' Refining Co., 54 La Salle
Schram, Geo. H. & Co., 310 S Desplaines
Speare's, Alden Sons Co., 21 River
Standard Oil Co., 115 Adams
Star Oil Co., 700 S Desplaines
Stearne & Son Co., Postal Telegraph bldg
Stuart, D. A. & Co., 350 E Illinois
Sullivan Oil Co., 413 Wells
Superior Oil Co., 413 N Wells
Traction Lubricating Co., 277 Dearborn
Van Doren Lubricator Co., 42 Michigan av
Viscosity Oil Co., 1063 W 67th
Winne, Howard B., 714 W Jackson blvd
X. L. Lubricant Co., 164 Dearborn
QUINCY—Richardson Lubricating Co. ("Supreme." "Keystone")

### INDIANA.

INDIANAPOLIS—Brooks Oil Co.
Crescent Oil Co.
General Oil Works Co.
Miller Oil & Supply Co.
National Refining Co.
Tiona Refining Co.

### IOWA.

COUNCIL BLUFFS—Monarch Mfg. Co.
MARSHALLTOWN—Marshall Oil Co. ("Rex" Ice Oil for Railroad Signals, etc.)

### KANSAS.

CHANUTE—Kansas Co-Operative Refining Co. (Petroleum Products)

### KENTUCKY.

COVINGTON—Standard Oil Co. of Kentucky
LOUISVILLE—Kentucky Refining Co. (Oil)
Standard Oil Co. (of Kentucky)

### LOUISIANA.

NEW ORLEANS—Record Oil Refining Co.

### MAINE.

PORTLAND—Little, F. H. Oil Co. (Oil)

### MARYLAND.

BALTIMORE—Baltimore Oil Co.
Bragonier, A. C. & Son (Oils), 423 East
Chesapeake Oil Co.
Crescent Oil Co.
Crown Oil & Wax Co.
Hook, C. H. & Co., Bank & 4th
Hopkins, John Oil Co. (Cylinder & Engine Oils, etc.)
Island Petroleum Co.
MacNeal, Jas. B. & Co. (Engine, Machine & Cylinder Oils, etc.)
Maryland Oil Co.
National Oil Co., 125 S Calvert
Patapsco Oil & Grease Co., 109 Cheapside
Red "C" Oil Mfg. Co., 111 Cheapside
Robinson, Wm. C. & Son Co. ("Lubrantine," Grease, "Autoline" Cylinder, Engine, Spindle & Dynamo Lubricants)
Sherwood Bros., Bank & 8th
Tiona Oil Co. (Cylinder Oils, etc.), 314 N Holliday

### MASSACHUSETTS.

BOSTON—Boston Oil & Gasoline Co., 145 Kingston
Chesterton, A. W. & Co. (Oils & Greases), 64 India
Colonial Lubric. Oil Co., 15 Storer
Columbia Lubricants Co.
Economy Lubricating Co.
Crane, L. M. & Co., 91 Oliver
Eagle Oil & Supply Co. ("Eagleine"), 104 Broad
Fiske Bros. Refining Co.
Great Eastern Oil Co.
Kehew-Bradley Co., 24 Purchase
Keystone Lubricating Co.
MacLean-Brandon Oil & Supply Co., 63 Long Wharf
Macomber, Henry S. & Co., 150 Milk
Marden, Orth & Hastings, 225 Purchase
Masury, Young & Co. (Wool Oils, Lubricating Greases, etc.), 198 Milk
Motorlube Oil Co.
Mulligan Oil Co.
National Oil Co.
Patterson Lubricating Co. ("Patterson," "Lubric" & "Keystone" Greases & Oils), 114 Broad
Robinson, Wm. C. & Son Co.
Speare's, Alden Sons Co., 369 Atlantic av
Underhay Oil Co., 73 Batterymarch
Vacuum Oil Co., 49 Federal
Valvoline Oil Co., 27 State
Vestal Oil Co., 28 New
Whitney, G. F. Co. (Oils), 59 Long Wharf
Wood, W. A. Co., 373 Atlantic av
Young, Frank L. & Kimball (Oils), 111
CAMBRIDGE—*Viscol Co.* Purchase
FITCHBURG—Snow Flake Axle Grease Co. ("Snow Flake")
NEW BEDFORD—Nye, Wm. F. (Oils Only)
Robinson, Wm. A. Co. Fish Island
NEWTONVILLE—Knowlton Packing Co. ("Lubron" Grease)
PALMER—Buck, E. A. & Co. (Oils)
WORCESTER—Dixon, Rufus S.
Fairbanks & Boynton Co., 49 Vine
Pierce & Rice Oil Co., 554 Park av
White & Bagley Co. ("Royal Worcester Oilzum")

### MICHIGAN.

DETROIT—Detroit Refining Co., Majestic bldg
Ellis, E. D. Oil Co.
Pattison Oil Co. (Oils), 213 Jefferson av
Wing, J. T. & Co., 19 Woodward av
FLINT—Michigan Paint Co. ("Se-Tab")
JACKSON—Advance Grease & Chemical Co. ("Advance", Wholesale Only)
PORT HAVEN—Stock, G. B. Xylite Grease & Oil Co. ("Xylite")
SAGINAW—U. S. Graphite Co. ("Granta")

### MINNESOTA.

MINNEAPOLIS—Channelene Oil & Mfg. Co.
Climax Refining Co. (Oils)
Crescent Oil Co., 718 N 1st
Kunz Oil Co., 12 Wilder
Nott, W. S. Co. ("Imperial" Oils), Minneapolis, Minn.
Twin City Oil Co. (Oils & Greases), 224 N 1st
Van Tilburg Oil Co.

### MISSOURI.

KANSAS CITY—Channellene Oil & Mfg. Co.
Keystone Oil Co. (Oils & Greases)
ST. LOUIS—Chappell Oil & Grease Co., 200 N Commercial
Crescent Oil & Supply Co. (Oils), 303 N Main
**DIXON, JOS. CRUCIBLE CO. (of Jersey City, N. J.),** Victoria bldg. (See adv. index, end of book)
Franklin Refining Co.
Frazer Lubricating Co., 2412 N Main
Great Western Oil Co., 11 S Levee
Henseler Mercantile Oil & Supply Co., 7 S Main
Jones, Geo. P. & Co. (Oils), 211 N Levee
McGuire, Nat. L., Market & Main
Marvin-Streck Oil & Supply Co., 208 N 13th

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Matthews, Geo. T. & Co. (Oils), 20 N Main
Mound City Oil & Supply Co., 204 N Commercial
Northrup Lubricating Oil Co., 308 N Commercial
Reid, Geo. W. Oil Co., 401 N Main
St. Louis Oil Co., 3000 N 2nd
Streett, J. D. & Co., 809 N 2nd
Valvoline Oil Co., 708 N Main
Waters-Pierce Oil Co. Bank of Commerce bldg

## NEW JERSEY.

CAMDEN—Pittsburg & Philadelphia Oil & Refining Co.
ELIZABETH—Ellis, W. A., & Son (Oils), Ellis av & Front
JERSEY CITY—Anchor Refining Co.
**DIXON, JOS. CRUCIBLE CO. (See** adv. index, end of book)
Frazer Lubricator Co., 179 15th
Hudson Oil & Supply Co.
NEWARK—American Oil & Supply Co., 52 Lafayette
Fiske Bros. Refining Co. ("Lubroleine")
Haas Bros. Co., 15 Clinton
Sheppard, W. S. ("Ideal"), 21 Lawrence
National Oil & Supply Co.
Pure Oil Co.
Wire Rope Lubricant Co.
Young, Orlando W. (Young's), 174 Frelinghuysen
RAHWAY—Three-In-One Oil Co. (See New York)
Tingley, Chas. O. & Co. (Ball Bearing)

## NEW YORK.

ALBANY—Bleeker, Wm. R.
Four Bros. Independent Oil Co.
Higgins, Robert, 30 Orange
Wing, Robert B. & Son, 385 B'way
BINGHAMTON—Binghampton Oil Refining Co.
Tiona Oil Co.
BUFFALO—Buffalo Oil & Grease Works, 146 Mohican av
Buffalo Petroleum Co.
Buffalo Refining Co. (Cylinder & Engine Oils, Filtered Stocks & "Niagara" Grease), 77 Main
Cataract Refining & Mfg. Co. ("Cascade")
Commercial Oil Co., 17 Main
Enterprise Oil & Supply Co., 2 Ohio
Fails, N. B. Lubricating Co.
Foote, W. H. & Co., 22 Maurice
Hoffman Oil Co., 16 Elk
Hosmer, G. A. Co., 375 Ellicott
Ideal Oil Co., 931 Clinton
Shining Light Mfg. Co. (Oils & Greases), 90 Main
Warren Lubricant Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Miller, Wm. P. Co. ("Victory," "American," "Shields" & "Universal"), 244 Greene
Newton, A. E. & Co., 164 Prospect

### Boroughs of Manhattan & Bronx.

NEW YORK—Alexander, H. T. & Co., 17 Battery pl
Belden, A. G. & Co. (Importers & Exporters), 145 Maiden lane
Benners, E. H. Co., 32 Front
Binghamton Oil Refining Co., 68 Broad
Bliven & Carrington, 116 Broad
Borne, Scrysmer & Co. ("Silex" & "Colonial" Greases, "Turboil" for Turbines; also Engine, Cylinder & Car Oils, etc.),
Burgmann, Feodor, 5 Beekman 80 South
Buxton, Heins & Co., 14 Jacob
Callahan, Geo. & Co., 218 Front
Carpenter, W. D. ("Graphite", a Pure Crystaline Graphite Product), 39 Cortlandt
Chard & Howe, 253 Front
Clarkson & Ford Co. ("Banner"), 55 Water
Colgan Mfg. & Supply Co. ("Colgan" Lubricating Ball), 42 South
Columbia Lubricating Co. ("Monogram"),
Columbia Oil Co., 15 William 116 Broad
Columbia Refining Co., 90 West
Cook & Cokefair, 306 Pearl
Cook's, Adam Sons ("Albany Grease" & Albany Cylinder Oil), 708 Washington
Corning, Arthur W., 251 Front
Cosmo Lubricating Co., 25 Broad
Crew-Levick Co., 170 Front
Dearborn Drug & Chemical Works (of Chicago, Ill.), 299 B'way
Dingee, M. H. & Co. 254 Water
Duryea Mfg. Co., 69 Wall
Eagle Lubricating Oil Co., 24 State
Faul, Wm. J. Co., 135 Front
Ferguson, Albert, 602 W 30th
Fiske Bros. Refining Co. ("Lubroleine"), 24 State
Frazer Lubricator Co. (Grease), 83 Murray
Freeman, Robert J., 215 William
French Lubricating Oil Co., 466 Grand
Gallaway, G. W. (Velocity"), 322 Pearl
Graphoil-Lubricator Co. ("Graphoil"), 90
Haggerty Refining Co., 50 South West
Harris, A. W. & Co., 400 Greenwich
Havoline Oil Co. ("Havoline"), 80 Broad
Haws, Geo. A. "Nox-All," "Panhard"), 73
Hewlett Bros., 32 Front Pine
Ilsley, Doubleday & Co., 229 Front
**INDIAN REFINING CO. (For All** Purposes), 123 William. (See adv. index, end of book)
Kanter, R. J. Co. ("Horseline" & "E. & K."), 647 Water
Kellogg, E. H. & Co. ("Anti-Corrosine," Cylinder, Dynamo & Spindle, Oils, etc.), 243 South
Keystone Lubricating Co., 96 Warren
Kuhne-Libby Co., 60 Water
Leibold's, John Sons, 197 Prince
Lubrik Oil Co., 143 Lincoln av
Manhattan Oil Co., 51 Front
New York Lubricating Oil Co., 116 Broad
New York & New Jersey Lubricant Co. ("Non-Fluid"), 165 B'way
Pattberg, F. & Co., 147 Maiden la
Pennsylvania & Delaware Oil Co. (Oils Only), 82 Beaver
Pigot, Sayre & Co. ("Aurora"), 135 William
Platt & Washburn Refining Co., 58 Pearl
Producers Oil Co., 17 Battery pl
Pulver, Peter & Co., 214 Franklin
Pure Oil Co., 32 B'way
Quimby, J. L. & Co., 278 Water
Reliance Oil & Grease Co., 50 South
Royal Lubricating Oil Co., 116 Broad
Sharpe & Co., 31 South
Smith, Thomas, Jr., 25 New Chambers
Smith & Nichols, 48 South
Sonneborn's, L., Son's (Inc.) ("Amalia," All Kinds of Oils & Greases), 262 Pearl
Speare's, Alden Sons Co., 253 B'way
Standard Oil Co. ("Capitol", Cylinder & "Renown," Engine Oils, Petroleum Lubricants & "Arctic" Grease), 555 W 25th
Star Lubricating Co. ("Peerless"), 232 W
Steck, Henry L., 154 Cherry 28th
Stephens & Conrow Co., 136 Liberty
**STRONG MACHINERY & SUPPLY** Co. ("Strong's E-Z-EE" Slip, "Strong's" Graphite Grease), 48 Franklin. (See adv. index, end of book)
Swan, Alden S. & Co., 138 Front
Swan & Finch Co. ("Resista"), 151 Maiden la
Texas Co., 17 Battery pl
Three-In-One Oil Co. ("Three-in-One"), 42 B'way
Tidewater Oil Co. (Petroleum Lubricants), 11 B'way
Union Excelsior Lubricating Co., 229 Front
Union Oil Co., 17 Battery pl
Utility Co. ("Gre-Solvent"), 636 W 44th
Vacuum Oil Co., 29 B'way
Valvoline Oil Co. ("Valvoline", "Mobiloil"), 11 B'way
Warren Lubricant Co., 19 Burling Slip
Wilburine Oil Co., 11 B'way
Winn, Wm. R. (Also Easy Run Axle Grease), 143 Maiden lane
Woolley, G. C. Co. (Oils), 89 New Chambers
Zibell, J. A., 273 Water

### Borough of Queens.

LONG ISLAND CITY—Miller's, Wm. P. Sons ("Excelsior")

**(End of New York City)**

NIAGARA FALLS—International Acheson Graphite Co. ("Acheson," Graphite & Graphite Grease)
ROCHESTER—Hayner, Norman C. Co. ("No-Set-O" Cylinder, Engine & Dynamo Oils, etc.)
Southwick, Theron T.
Union Oil Works
Vacuum Oil Co.
ROME—Baums Castorine Co.
SYRACUSE—Mills, C. E. Oil Co.
Syracuse Reduction & Mfg. Co. (Grease)
WATERFORD—Petroleo Co.

## OHIO.

ASHLAND—Blynt Mfg. Co.
CINCINNATI—Cincinnati Oil Works, 323 Sycamore
Evans Oil Works, Perin bldg
Moore, Chas. H. Oil Co. (Solid Lubricants & Special Greases, for Jobbing Trade Only)
Paragon Refining Co.
Valvoline Oil Co. ("Valvoline," "Mobiloil")
Wagner, C. P. & Co. (Cylinder, Engine, Dynamo, etc.), 126 Sycamore
Wittich, Julius, 140 E Court
CLEVELAND—Atlantic Refining Co.
Atlas Oil Co., Rose bldg
Brooks Oil Co., C. & P. & Erie R. R.
Canfield Oil Co. (Petroleum Products)
Carran, Lewis C., Rockefeller bldg
Clark, Fred G. Co. (Wholesale Trade Only)
Climax Refining Co., Williamson bldg
Crown Oil Co., 804 Lakeside av, N W
Cummer, Jas. W. Co., 2900 E 34th, S E
Dieterichs Valve Oleum Co., Rose bldg
Energine Refining Co. (Autovalve), Cuyahoga Refining Co., Wade bldg
Globe Oil Co., Rose bldg
Great Western Oil Co. (Auto, Cylinder & Engine Oils, etc.)
Kingsley, H. B. & Co. ("Sealine" Oils & Cup Greases), 325 St. Clair av, N W
Manufacturers' Oil & Grease Co., Century bldg
Mohawk Refining Co., 1187 W 11th, N W
Monitor Oil Co. (Oils & Greases), 1131 River, N W
National Refining Co. (Petroleum Products, Sell Jobbing Trade Only)
Phoenix Oil Co., 2554 W 5th
Plomo Specialty Mfg. Co., Sherman & C. & P. R. R.
Reliance Oil & Grease Co. ("Valve-Oelene" & Lubricating Oils & Greases for All Purposes)
Standard Oil Co. of Ohio ("Capitol" Cylinder, "Renown" Engine, "Eldorado" Engine, "Standard" Gas Engine, "Mobilubricant," etc.)
Star Lubricating Oil Co., 8714 B'way, S E
Sterling Refining Co., Citizens bldg
Stevens Grease & Oil Co., Engineers bldg
Whitmore Mfg. Co. ("Whitmore's" Gear Protective Composition, "Whitmore's" Journal Oil)
COLUMBUS—Keystone Paint & Oil Co. (Oils)
Ohio Filler & Shield Co.
Keystone Refining Co.
LOUDONVILLE—Ohio Grease Lubricant Co. ("Ohio", Cylinder Grease)
TOLEDO—Craig Oil Co.
Electric Refining Co.
Monarch Mfg. Co. ("Channelene" Grease), Ironville
Paragon Refining Co. (Cylinder Valve & Engine Oils & Greases & Lubricating Compounds)
Sun Oil Co. (Engine & Cylinder Oils & Greases)

## PENNSYLVANIA.

ALLENTOWN—Garnet Co.
Gossler Oil Co. (Oils & Greases)
BRADFORD—Emery Mfg. Co. (Steam Refined Journal Oil Co. Cylinder Stock)
Penn Lubricating Co. (of Pa.)
Kendall Refining Co. (Steam Refined Cylinder Stocks, etc.)
CHESTER—Manufacturers' Paraffine Co.
EASTON—World Refining Co. ("Phillips' World")
EMLENTON—Emlenton Refining Co. (Cylinder, Engine, Spindle, Dynamo, etc.)
Sterling Oil Co.
ERIE—Bayerson Oil Works ("Auto Craft" Motor Oils & "Uncle Sam", Greases)
Bell Oil Co.
Erie Oil Co.
Union Oil Works
United Oil Works
FERNWOOD—Modoc Company (Inc.) ("Modoc" Journal Lubricant & Gear Grease)
FRANKLIN—Galena Signal Oil Co. (Coach, Engine & "Sibley's" Perfection Valve & Marvin Mfg. Co. (Autolene) Signal Oils)
FREEDOM—Freedom Oil Works Co. (Refiners of Machinery Oils, etc.)
NORTH CLARENDON—Smith, Levi
OIL CITY—Continental Refining Co.
Crystal Oil Works (Railroad Oils a Specialty)
Germania Refining Co. (Cylinder, Spindle, Engine, Valve, etc.)
Independent Refining Co. (Engine, Dynamo, etc.)
Oil City Oil & Grease Co.
Penn Refining Co. (Ltd.) (Petroleum Lubricants)
PHILADELPHIA—Atlantic Refining Co. (Engine, Cylinder, etc.), Bourse bldg
Benson, Wm. T. & Co., 232 N Front
Borne, Scrymser Co., 216 N Front
Brown, D. P. & Co. (Oils & Greases), 262 N 4th
Commercial Lubricating Co., cor Meadow & Jackson
Crew, Levick Co. (Petroleum Products, Sell Jobbing Trade Only), Land Title bldg

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Houghton, E. F. & Co. (Cosmolubric Oil, Vim, Cylinder Oils, Lubricating Greases, etc.), 240 W Somerset
Hulbert, C. & Co., 240 Arch
Kellom, C. F. ("Invaders"), 648 N Broad
Keystone Lubricating Co. (Greases & Compounds & Belt Greases), 20th & Allegheny av
Loos & Dilworth, 134 S Front
Murray & Murray, 219 Quarry
Penn Petroleum Co. (Greases), 18 S Delaware av
Philadelphia Grease Mfg. Co., 848 S Swanson
Pure Oil Co. ("Penna." Oils & "Puro" Greases), Lafayette bldg
Red Star Oil Co., 322 N Broad
Richards, G. Whitfield, 10 N 19th
Skipton, Valentine Co., 2321 N 30th
Smith, Chas. K. & Co., 123 Arch
Stevenson Bro. & Co., 110 Race
Sun Co. (Petroleum Lubricants), Real Estate Trust Co. bldg
Sunlight Oil & Gasoline Co. (Cylinder & Lubricating Oils), 49th c Gray's av
Union Petroleum Co. (Cylinder, Engine, Dynamo, Wool & Cordage Oils, Automobile, Motor Boat & Gasoline Engine Lubricants, etc.), 138 S 2d
Walton, F. S. Co. ("Zorozo", Grease, etc.), Orthodox & Delaware River bldg
Zurn, O. F. Co. ("Peerless," "American," "Detroit" Grease, etc.), Broad & Lehigh av

PITTSBURG—Duquesne Oil & Supply Co., 3300 Smallman
Eagle Lubricating Oil Co., 426 1st av
Fralich Grease & Oil Co.
Guffey, J. M. Petroleum Co., Frick bldg
Gulf Refining Co. (Cylinder & Engine Oils, etc.)
Hamel, J. J. & Co., 240 Diamond
High Grade Oil Refining Co. (Refined Oil)
Kaufman, L. Oil & Grease Co., 547 7th av
McAbee, G. R. Powder & Oil Co.
Marine Oil Co.
Miller's, A. D. Sons Co. (Cylinder, Engine & Dynamo Oils & Cup, Journal, Belt & Sponge Greases), North Side
Penna Lubricating Co., 34th & A. V. R'y
Pittsburg Oil Refining Co. (Cylinder, Spindle, etc.), 1246 W Carson
Sun Co., Columbia Bank bldg
Waverly Oil Works

READING—Ellis & Cummings Oil Works
SCOTTDALE—Crescent Mfg. Co. ("Lackawanna" Grease)
SCRANTON—Maloney Oil & Mfg. Co.
TITUSVILLE—Frank Oil Co. (Oils)
Harris Oil & Grease Works (Gas Engine Cylinder Oils, etc.)
WARREN—Conewango Refining Co.
Cornplanter Refining Co. (Cylinder, Spindle, Engine, etc.)
Seneca Oil Works (Cylinder & Machinery Oils)
United Refining Co.
Warren Refining Co. (Cylinder, Engine, etc.)
Warren Specialty Co. (Cup & Axle Grease)
Wilburine Oil Works (Ltd.) (Petroleum Lubricants)

## RHODE ISLAND.

PROVIDENCE—American Oil Co., 180 S Water
American Supply Co.
Benedict, Wm. C. & Co.
Bush, Chas. S. Co. (Oils & Greases)
Harris, A. W. Oil Co. ("Harris"), 326 S Water
Olney Bros. (Oils & Greases)
Phetteplace Oil Co., 169 Augell

## TENNESSEE.

HARRIMAN—Indian Refining Co.

## TEXAS.

DALLAS—Armstrong Packing Co.
Dallas Oil & Refining Co.
HOUSTON—Bruck Solidified Oil Co.
Cable-Line Oil Co.
Fordyce, S. W.
Gulf Refining Co.
Lone Star Oil Co.
Texas Co.
TEXAS CITY—Texas City Refining Co. (Petroleum Products)

## WASHINGTON.

SEATTLE—Seaboard Oil Co.
TACOMA—Paragon Safety Oil Co.
Vavoline Oil Co.

## WEST VIRGINIA.

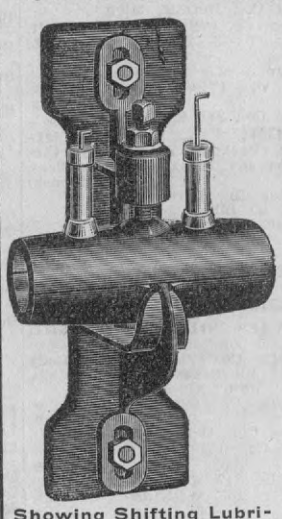
PARKERSBURG—Stiles Bros. (Machinery & Cylinder Oils)

## WISCONSIN.

MILWAUKEE—Campbell, J. M., 275 Oregon
Halsted, W. D. Oil Co., 318 E Water
Hofmeister, Leo, 396 Clinton
Independent Oil & Grease Co., 291 So. Water
Magie, E. E. Specialty Mfg. Co., 268 S Water
Peters Oil & Compound Co. (Oils & Greases), 356 Clinton
Wadham's Oil Co. ("Badger" & "Cook" Cylinder), 215 National av
OSHKOSH—Stroud & Co.
WAUKESHA—Kent Lubricant Co.


# Swain Lubricator

## FOR SHAFTING AND LOOSE PULLEYS



Showing Shifting Lubricator Attached

consists of Brass Cup and Candle of solid substance composed of best high gravity oils and the finest petroleum products.

It is entirely automatic, requiring absolutely no attention after inserting lubricating Candle, as the indicating rod shows the amount of material in the holder at a glance from the floor.

It works only when the machine is in operation, and allows no waste from dripping or evaporation.

Where economy, convenience and cleanliness are considered, the Swain Lubricator meets the most exacting demands.

USED BY

**American Bridge Co.**
**American Sheet & Tin Plate Co.**
**Armour & Co.**
**City of Chicago.**
**Chicago & Northwestern Railway.**
**Chicago & Rock Island & Pacific Ry**
**Illinois Steel Co.**
**International Harvester Co.**
**Pullman Co.**
**Otis Elevator Co.**

We Also Make Metallic Packing.

## SWAIN LUBRICATOR CO.

**Lake and South Water Sts.**
**CHICAGO, ILL.**


## 5815—Lubricators (Air Compressor)

(See also Lubricating Oils & Greases; also Lubricators, Gas Engine)

American Lubricator Co. ("Improved"), Bowen Mfg. Co., Auburn, N. Y.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
LUNKENHEIMER CO. ("Vulcan," "Banner" & "Hercules"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan"), Detroit, Mich.
Osgood, J. L., Buffalo, N. Y.
Powell, Wm. & Co., 2529 Spring Grove av, Cincinnati, O.
Williams, D. T. Valve Co., Cincinnati, O.

## 5816—Lubricators (Automobile)

(See also Lubricators, Oil & Grease Cup; also Lubricators, Force Feed)

Advance Grease & Chemical Co. ("Advance" Greases), Jackson, Mich.
Bowen Mfg. Co., Auburn, N. Y.
Brown, Will H. (Non-Separable), Schofield bldg, Cleveland, O.
Lindholm Metal Stamping Co. ("McKee," "Lindholm," "Jacobs," "Valve" Metal Drawn), Camden, N. J.
LUNKENHEIMER CO. ("Auto"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McCord & Co. ("McCord" Force Feed), 150 Michigan av, Chicago, Ill.
Penberthy Injector Co. ("Penberthy"), 346 Holden av, Detroit, Mich.
Williams, D. T. Valve Co., Cincinnati, O.

## 5817—Lubricators (Candle)

(For Shafting & Loose Pulleys, Etc.)

Detroit Lubricating Co., Detroit, Mich.
SWAIN LUBRICATOR CO. ("Swain"), c Lake & S Water, Chicago, Ill. (See adv. index, end of book)

## 5818—Lubricators (Car Journal)

Armstrong Oiler Co., Commonwealth Trust bldg, Phila., Pa.
Railway Journal Lubricator Co., The ("Ideal"), Mercantile Library bldg, Cincinnati, O.

## 5819—Lubricators (Electric Motor)

Armstrong Oiler Co., Commonwealth Trust bldg, Phila., Pa.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
Harris, A. W. Oil Co., Providence, R. I.
Osgood, J. L., Buffalo, N. Y.

## 5819a—Lubricators (Elevator Guide)

ELEVATOR SUPPLY & REPAIR CO. ("Eggler"), 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)


GUIDE LUBRICATORS
FOR
PASSENGER & FREIGHT ELEVATORS
ELEVATOR SUPPLY & REPAIR CO
105 W. 40th St. NEW YORK
561 W. Monroe St. CHICAGO
593 Market St., San Francisco, Cal.


## 5820—Lubricators (Force Feed)

Biddison Mfg. Co., Madison, Wis.
Bowen Mfg. Co., Auburn, N. Y.
Dery Mfg. Co. ("Dery"), Duluth, Minn.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Greene, Tweed & Co. ("Multiplus" & "Rochester" Automatic), 109 Duane, New York
Hatcher Auto Parts Co. (Hand), Cleveland, O.
Hills-McCanna Co., 153 W Kinzie, Chicago, Ill.
Lavigne Mfg. Co., Detroit, Mich.

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Lonergan, J. E. & Co. ("Keystone," Hand), 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
McCord & Co. ("McCord", for Locomotives, Automobiles, Motor Boats, etc.), 150 Michigan av, Chicago, Ill.
Madison-Kipp Lubricator Co. ("Kip" Valveless), Madison, Wis.
Manzel Bros., Buffalo, N. Y.
**Mason-Kipp Mfg. Co., Madison, Wis.**
**Michigan Lubricator Co. (Hand), Detroit, Mich.**
**Milwaukee Metal Working Co. ("Werder"), Montgomery bldg, Milwaukee, Wis.**
National Sewing Machine Co. ("Crandall"), Belvidere, Ill.
Osgood, J. L., Buffalo, N. Y.
Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.
Precision Appliance Co. ("Hill"), 2315 Austin, Chicago, Ill.
Richardson-Phenix Co. ("Richardson"), Milwaukee, Wis.
Sherwood Mfg. Co. ("Hart"), Buffalo, N. Y.
Standard Force Feed Lubricator Co., Rochester, N. Y.
Sterling Machine Co., Norwich, Conn.
Success Novelty Co., Richmond, Va.

## 5821—Lubricators (Gas Engine)

(See also Lubricators, Automobile)

**AMERICAN INJECTOR CO., Detroit,** Mich. (See adv. index, end of book)
American Lubricator Co. ("Improved," "Perfection," "Reliable," "Crescent"), Detroit, Mich.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Lavigne Mfg. Co., Detroit, Mich.
**LUNKENHEIMER CO. ("Paragon," "Premier," "Mars," "Vulcan" & "Banner" Multiple Feed), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
Manzel Bros. Co., Buffalo, N. Y.
Michigan Lubricator Co. ("Michigan," Sight Feed, Gas, Gasoline & Steam Engine, Air Compressor, Steam Pump), Detroit, Mich.
Ohio Injector Co. ("Chicago"), Wadsworth, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Osgood, J. L., Buffalo, N. Y.
Penberthy Injector Co. ("Penberthy"), 346 Holden av, Detroit, Mich.
Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.
Precision Appliance Co., 2315 Austin av, Chicago, Ill.
Williams, D. T. Valve Co. ("Worthy," "Wonder"), Cincinnati, O.

## 5822—Lubricators (Graphite)

Advance Grease & Chemical Co. ("Advance" Greases), Jackson, Mich.
Campbell Graphite Lubricating Co. ("Automatic Feeding"), Little Rock, Ark.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
Randall Graphite Sheet Lubricator Co. ("Randall' Graphite Sheet), 562 W Randolph, Chicago, Ill.
**STRONG, CARLISLE & HAMMOND** Co. ("Randall", Sheet), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## Lubricators (Grease & Oil Cup)

(See Lubricators, Oil & Grease Cup)

## 5823—Lubricators (Locomotive)

Crescent Mfg. Co. ("Lackawanna"), Scottdale, Pa.
Detroit Lubricator Co. ("Detroit" Bullseye Pattern), Detroit, Mich.
Detroit Shipbuilding Co. (Brass Dep't), Detroit, Mich.
Franklin Railway Supply Co. (Grease, for Driving Box, etc.), Franklin, Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
McCord & Co. ("McCord", Force Feed), 150 Michigan av, Chicago, Ill.
Michigan Lubricator Co. ("Stationary"), Detroit, Mich.
Nathan Mfg. Co., 85 Liberty, New York
Ohio Injector Co. ("Chicago"), Wadsworth, O.
Osgood, J. L., Buffalo, N. Y.
Philadelphia Lubricator & Mfg. Co. (Inc.) ("Philadelphia"), Philadelphia Bourse, Philadelphia, Pa.
Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O
Williams, D. T. Valve Co., Cincinnati, O.

## 5824—Lubricators (Locomotive Box)

Railway Journal Lubricator Co., Mercantile Library bldg, Cincinnati, O.
Venango Mfg. Co., Franklin, Pa.

## Lubricators (Loose Pulley)

(See Oilers, Loose Pulley)

## 5825—Lubricators (Multiple Oiling)

Detroit Lubricator Co., Detroit, Mich.
Essex, G. B. Brass Co. ("Standard"), Detroit, Mich.
Hall Manufacturing Co., 94 John, New York
Hussey Drop Forge & Mfg. Co., Cleveland, O.
Locke Regulator Co. ("Perfection"), Salem, Mass.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
Michigan Lubricator Co., Detroit, Mich.
Nathan Mfg. Co., 85 Liberty, New York
Osgood, J. L., Buffalo, N. Y.
Richardson-Phenix Co. ("Richardson"), Milwaukee, Wis.
Sherwood Manufacturing Co., Buffalo, N. Y.

## 5826—Lubricators (Oil Pump)

**AMERICAN INJECTOR CO., Detroit,** Mich. (See adv. index, end of book)
American Lubricator Co. ("Ideal" Glass Body & "Superior," all Brass), Detroit, Mich.
Burt Mfg. Co., 32 Main, Akron, O.
Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
Essex, G. B. Brass Co., Detroit, Mich.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa.
Greene, Tweed & Co., 17 Murray, New York
Hills, McCanna Co., 153 W Kinzie, Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Lonergan, J. E. & Co. ("Calumet & Hecla" Pattern, etc.), 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Alpha," "Universal," "Marvel" & "Imperial"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
Madison-Kipp Lubricator Co. ("Kipp" Valveless), Madison, Wis.
Manzel Bros. Co. ("Manzel" Sight Feed Automatic), Buffalo, N. Y.
Michigan Lubricator Co. ("Michigan"), Detroit, Mich.
Nugent, Wm. W. & Co. ("McCune" Anti-Packed Force, Sight Feed Cylinder Pumps). 220 W Huron, Chicago, Ill.
Osgood, J. L., Buffalo, N. Y.
Penberthy Injector Co., Detroit, Mich.
Powell, Wm. Co., Cincinnati, O.
Richardson-Phenix Co. ("Richardson" & "Phenix" Automatic Sight Feed), Milwaukee, Wis.
Schutte & Koerting Co., 12th & Thompson, Phila., Pa.
Siebert Cylinder Oil Cup Co., 53 Oliver, Boston, Mass.
Sherwood Mfg. Co. ("Buffalo", "Felthousen" Cylinder, "Mechanical" & "Hart" Mechanical Sight Feed), Buffalo, N. Y.
Stahl-Salter Lubricating Co. ("Stahl's" Conical Base Grease Cups), Minneapolis, Minn.
Sterling Machine Co. (Force Feed), Norwich, Conn.
Williams, D. T., Valve Co. ("Walrus"), Cincinnati, O.

## 5827—Lubricators (Oil & Grease Cup)

Albany Lubricating Co. ("Perfect" Grease Cups Only), 708 Washington, New York
Allen, W. D. Mfg. Co. ("Bowes," "Czar," "Columbia," "Gibbs," & "Peerless"), 151 Lake, Chicago, Ill.
**American General Engineering Co. ("Reliable" Oil Cup), 253 B'way, New York**
**AMERICAN INJECTOR CO. (Glass** Oil Cups, Brass Grease Cups; also Compression Grease Cups, Moon Automatic), Detroit, Mich. (See adv. index, end of book)
American Lubricator Co. ("Pearl," "Banner," "Admiral," "Acme," "Navy," "Model," Glass Body for Oil, "Lion," "Challenge," "Art," all Brass for Grease), Detroit, Mich.
**BAY STATE STAMPING CO. ("Bennett Handy"),** 380 Chandler, Worcester, Mass. (See adv. index, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Besly, Chas. H. & Co. ("Perfection," "Bonanza" Oil Cups & "Helmet" Cast Iron Oil Cups), 124 N Clinton, Chicago, Ill.
Bowen Mfg. Co. ("Empress" Line of Brass & Steel Grease Cups; Plain Compression, Plain Leather Packed, Ratchet Compression, Marine Compression, Spring Compression, Crank Pin & Funnel Shafting Cups), Auburn, N. Y.
Brown, Will H. (Non-Separable), Schofield bldg, Cleveland, O.
Buckeye Iron & Brass Works (Oil Cups Only), Dayton, O.
Bushnell, John S. & Co. ("McKenzie"), 123 Liberty, New York
Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
Canton Brass & Machine Co. (Oil Only), Canton, Ohio
Crane Co., Est. 1855 (Brass & Copper), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Crescent Mfg. Co. ("Lackawanna" Automatic Grease Cups Only), Scottdale, Pa.
Crescent Oil & Supply Co. ("Babcock & Kelley"), St. Louis, Mo.
Detroit Lubricator Co. ("McCoy") (Brass Dept.), Detroit, Mich.
Detroit Shipbuilding Co. (Brass Dept.), (Brass "McCoy," "Erie," "Huron," "Majestic," "Quaker," "Kirby," "Perfection," "Superior," "Eagle" & "Mutual"), Detroit, Mich.
Dynamic Grease Cup Co. (Automatic Force Feed Grease Cups), Phila., Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Economy Oil Cup Co., Augusta, Ga.
Edna Brass Mfg. Co. (Oil Cups only), Cincinnati, Ohio
Erie Stamping & Mfg. Co., Erie, Pa.
Essex, G. B. Brass Co., Detroit, Mich.
Eynon-Evans Mfg. Co. (Railroad Oil Cups), 1519 Clearfield, Phila., Pa.
France Packing Co. (Inc.), Phila., Pa.
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)
Hall Mfg. Co. ("Hall's"), John & Cliff, New York
Hancock Mfg. Co., Charlotte, Mich.
Hatcher Auto Parts Co. ("B.-H."), 32 Columbus, Cleveland, O.
Haydenville Co., Haydenville, Mass.
Hills-McCanna Co., 153 W Kinzie, Chicago, Ill.
Holland, William, 122 S Jefferson, Chicago, Ill.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co. (Brass), Erie, Pa.
Karns, W. E., Parker Landing, Pa.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
Keystone Brass Co. ("Cyclone" Brass), Erie, Pa.
Kinsey & Mahler Co., Peoria, Ill.
Knowlton Packing Co. ("Ellis"), Newtonville, Mass.
Koehler Bros ("Moon" & "Neverslip" Grease Cups), Saginaw, Mich.
Lawson Mfg. Co. (Loose Pulley), Buffalo, N. Y.
Lindholm Metal Stamping Co. ("McKee," "Lindholm," "Jacobs," "Vale" Drawn Metal Grease Cups), Camden, N. J.
Locke Regulator Co. ("Brute"), Salem, Mass.
Lonergan, Jas. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Cardinal,"** "Pioneer," "Victor," "Sentinel," "Crown," "Pressure," "Reserve," "Royal," "Miami," "Champion," Automatic, "Spring Lid" & "Pulley" Oil Cups & "Ideal" "Lion," "Jewel," "Marine," "Tiger," "Gem," "Surety," "Positive," "Rex," "Apollo," "Steel," "Mite." "Owl," "Lock," "Primo," "Guard," "Grip," "Reliance," "Climax," "Atlas" Grease Cups)' General Offices & Works, Waverly & Beekman, Cincinnati, O. (See adv. index & branch offices, end of book)
McCanna Mfg. Co., Waukegan, Ill.
McNab & Harlin Mfg. Co. ("Stauffer." "Gee." "Broughtons," "Boyden" & "Yale"), 56 John, New York

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**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end of book)
**MERCHANT & EVANS CO. (Automo-**bile Grease Cups), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan," "Common Sense," "Improved Common Sense," Spring Compression, Improved Spring Compression, Loose Wire Crank Pin, "Reliable Plain"), Detroit, Mich.
Milwaukee Valve Co. (Plain Brass Grease Cups), Milwaukee, Wis.
Nash Bros. & Co. ("The Michigan" Spring Compression Grease), Ogdensburg, N. Y.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Nathan Mfg. Co. ("Dreyfuss"), 85 Liberty, New York
National Brass & Metal Co., Minneapolis, Minn.
**NATIONAL GAUGE CO., 168 5th,** Brooklyn, N. Y. (See adv. index, end of book)
Nolte Brass Co. (Plain Brass Oil Cups Only), Springfield, O.
Nunn Brass Works (Inc.), Rochester, N. Y.
Ohio Brass Co. (Brass & Glass), Mansfield, Ohio
Ohio Grease Lubricant Co. ("Ohio"), Loudonville, O.
Ohio Injector Co. ("Chicago"), Wadsworth, O.
Penberthy Injector Co. ("Penberthy"), 346 Holden av, Detroit, Mich.
Perkes, Charles, 627 Arch, Philadelphia, Pa.
Philadelphia Lubricator & Mfg. Co. (Inc.) ("Philadelphia" Grease Cup), Philadelphia Bourse, Phila., Pa.
Phillips Co. ("Standard" Brass), Somerville, Mass.
Phillips, W. P., Sudbury bldg, Boston, Mass.
Pioneer Brass Works, Indianapolis, Ind.
Powell, Wm. Co. ("Coin," "Colonial," "Mecca," "Parole," "Petrel," "Pilgrim," "Phoenix," "Planet," "Pinnacle," "Pointer," "Pluto," "Picket," "Puritan," "Polaris"), 2525 Spring Grove av, Cincinnati, O.
Queen City Brass & Iron Works (Brass), Cincinnati, O
Reed Mfg. Co. ("Economy" Oil Cups), Erie, Pa.
Ritchie, Gavin & Sons, Battle Creek, Mich.
Ruppenthal, J., & Son (Grease), 1602 North Broadway, St. Louis, Mo.
Seibert Cylinder Oil Cup Co, (Brass), 53 Oliver, Boston, Mass.
Sherman, H. B. Mfg. Co. (Brass), Battle Creek, Mich.
Sherwood Mfg. Co. ("Buffalo," "Niagara" & "Sherwood"), Buffalo, N. Y.
Simplex Lubricator Co. ("Simplex" Grease Cups Only), Pittsburg, Pa.
Springfield Brass Co. (Brass), Springfield, O.
Star Brass Mfg. Co., 108 E Dedham, Boston, Mass.
**SWAIN LUBRICATOR CO. ("Swain"),** c Lake & S Water, Chicago, Ill. (See adv. index, end of book)
Swift Lubricator Co. ("IXL," "Sachem," "Star" & "Sancho," Glass & Brass Oil Cups & Compression Grease Cups), Elmira,
Tucker, W. W. & C. F. (Self-closing Rotary Head Cup), Hartford, Conn.
Universal Lubricator Co. ("Philadelphia" Grease Cups), 1337 Arch, Phila, Pa.
Wadhams Oil & Grease Co. (Wadhams Grease Cups), 215 National av, Milwaukee, Wis.
Wilkinson, W. H. & Co., West Medway, Mass.
Williams, D. T., Valve Co. ("Tacoma," "Tremont," "Tarrant," "Temple," "Topaz," "Tandem," "Automatic Needle Valve," "Dandy," "Duke," "Duchess," "Dragon", "Diamond", "Dakota"), Cincinnati, Ohio

## 5828—Lubricators (Rock Drill)

Western Lubricating Valve Co. ("B. & C."), Denver, Colo.

## 5829—Lubricators (Sight Feed)

American Lubricator Co. ("Perfection," "Reliable" & "Crescent," Glass Body), Detroit, Mich.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crescent Mfg. Co. ("Lackawanna," for Stationary Locomotive & Marine Engines), Scottdale, Pa.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Detroit Lubricator Co. ("Detroit," "Zero," "Kid"), Detroit, Mich.
Detroit Ship Building Co. ("Kirby"), Detroit, Mich.
Eastwood Wire Mfg. Co. ("Couse"), Belleville,
Essex, G. B. Brass Co., Detroit, Mich. N. J.
**FLOWER, WALTER L. CO. ("Ash-**ton"), 307 S 8th, St. Louis, Mo. (See adv. index, end of book)
Hall Mfg. Co. ("Hall's"), John & Cliff, New York
Handlan-Buck Mfg. Co. ("Dibble"), St. Louis,
Haydenville Co., Haydenville, Mass. Mo.
Jarecki Mfg. Co. ("Erie"), Erie, Pa.
Kelly & Jones Co. ("Westmoreland"), Pittsburg, Pa.
Knowlton Packing Co. ("Ellis," "Ideal), Newtonville, Mass.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Hercules," for** Air Compressors, "Cupid" for Small Blowers, "Arctic" for Ammonia Compressors). General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McNab & Harlin Mg. Co. ("Boyden"), 56 John, New York
**McRAE & ROBERTS CO. ("The Acme,"** "Eureka," "Never Fail"), 227 Campbell av, Detroit, Mich. (See adv. index, end
Manzel Bros. Co., Buffalo, N. Y. of book)
Michigan Lubricator Co. ("Michigan," "Cyclone," "Rural," "Duke," "Giant," "Hot Stuff," "Popper Pod," etc.), Detroit, Mich.
Nathan Mfg. Co., 85 Liberty, New York
Ohio Brass Co., Mansfield, O.
Ohio Grease Lubricant Co. ("Ohio" Grease), Londonville, O.
Ohio Injector Co. ("Chicago," "Ohio"), Wadsworth, O.
Osgood, J. L. ("Valveless"), Buffalo, N. Y.
Philadelphia Lubricator & Mfg. Co. (Inc.) ("Philadelphia"), Phila. Bourse, Phila., Pa.
Pittsburg Brass Mg. Co., 107 Wood, Pittsburg, Pa.
Powell, Wm. Co. ("Trojan," "Columbian," "Star," "Crescent," "Ensign"), 2529 Spring Grove av, Cincinnati, O.
Precision Appliance Co., 2315 Austin av, Chicago, Ill.
Richardson-Phenix Co. ("Richardson" Automatic Sight Feed Oil Pump), Milwaukee, Wis.
Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.
Star Brass Mfg. Co., 108 E Dedham, Boston.
Sterling Machine Co., Norwich, Conn. Mass.
Swift Lubricator Co., Elmira, N. Y.
Wilkinson, W. H. & Co., West Medway, Mass.

## 5830—Lubricators (Steam Engine)

**LUNKENHEIMER CO. ("Senior,"** "Junior," "Graphite," "Major," "Monarch" & "Colonel"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 5831— Lugs (Boiler)

Castle, A. M. & Co. ("Drake-Castle" Pressed Steel), 217 N Jefferson, Chicago, Ill.
Glasgow Iron Co. ("Roe" Pressed Steel), Pottstown, Pa., & 1502 Market, Phila., Pa.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KUTZTOWN FOUNDRY & MACHINE** Co. (Cast Iron), 116 N Broad, Phila., Pa. (See adv. index & branch offices, end of book)
Lukens Iron & Steel Co., Coatesville, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scully Steel & Iron Co. (Pressed Steel). Chicago, Ill.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
Worth Bros. Co. (Pressed Steel), Coatesville, Pa.

## 5832— Lugs (Hinge)

**RIESECK, P. (Wrought Steel for** Steel Shutters), Allegheny av & Rebecca, N S, Pittsburg, Pa. (See adv. index, end of book)

## 5833— Lugs (Tank)

Baker Mfg. Co., Evansville, Wis.
**CALDWELL, W. E. CO. ("Caldwell"** Hoop Lugs or Fasteners), Book & D, Louisville, Ky. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., (Rivet-**less & Eclipse Steel), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Girard Iron Works, 22d & Master, Phila., Pa.
Gowanda Agricultural Works (Silo Lugs), Gowanda, N. Y.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Pacific Tank & Pipe Co., San Francisco, Cal., & Los Angeles, Cal.
Racine Tank Lug Co. (Malleable Iron), Racine, Wis.
Tecktonius, E. C. Mfg. Co. (Malleable Iron), Racine, Wis.
Winship Mfg. Co. (Lugs & Draw Bolts), Racine, Wis.

## 5834— Lumber (Artificial)

Gardner Artificial Lumber Co., 115 B'way, New York. Factory, Barberton, O.

## Lumber (Creosoted)

(See Creosoting Works)

## 5835—Lumber (Diamond Pattern)

**BROWN BROS. MFG. CO. (For Foun-**dries & Similar Mfrs.), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 5836—Lumber (Kyanized)

Allen, Otis & Son, Lowell, Mass.
Berlin Mills Co., Portland, Me.

## 5837— Lumber Leads

**DIXON, JOS. CRUCIBLE CO. ("Dix-**on's," for Green or Dry Lumber), Jersey City, N. J. (See adv. index & branch offices, end of book)

## 5838—Lumber Mfrs. (Cypress)

Cypress Lumber Co. (Lumber & Shingles, Tanks & Vats), 88 Broad, Boston, Mass., & Apalachicola, Fla.
**STEARNS, A. T. LUMBER CO., Nepon-**set, Boston, Mass. (See adv. index, end of book)

## 5839—Lumber Mfrs. & Wholesale Dealers

Star (*) denotes Manufacturers.
Dagger (†) denotes Inspectors & Shippers.
Section Mark (§) denotes Wholesale Dealers.

This is not an absolutely complete list of Lumber Manufacturers & Wholesalers. It is compiled for those who want to purchase lumber.

### ALABAMA.

ANNISTON—Ray, J. W. (Saw Mill)
ASHFORD—Pieree Lumber Co.
ATMORE—*Carney, W. M. Mill Co. (L. L. *Steadham, J. V. (Est. of) Yellow Pine)
BELLAMY—Allison Lumber Co. (Saw Mill)
BESSEMER—Edwards, G. B.
BIRMINGHAM—§Alabama Lumber Co.
*American Lumber & Export Co. (Yellow
*Clear Creek Lumber Co. Pine)
§Farrior, J. W. & Co.
§Iron City Lumber Co.
*Johnston, T. H. & Co. (Yellow Pine)
*Kaul Lumber Co. (Saw Mill, Yellow Pine.
*Lathrop Lumber Co. (Yellow Pine) etc.)
Standard Lumber & Mfg. Co.
BON SECOUR—*Swift, C. A. & Sons (Lumber & Saw Mill)
BRANTLEY—Rogers, W. C. & Son (Saw Mill)
BREWTON—*Cedar Creek Mill Co. (Yellow Lovelace Lumber Co. Pine)
BROOKLYN—Amos, E. N. (Saw Mill)
CAMDEN—Jones, T. J. & Co. (Saw Mill)
McWilliams, R. E. (Saw Mill)
CARBON HILL—Guthrie, B. B. (Saw Mill)
CARROLLTON—*Kilpatrick Bros. (Saw Mill)
CHAPMAN—*Smith, W. T. Lumber Co. (Yellow
CLARKSVILLE—Coats, V. A. (Saw Mill) Pine)
CLAYTON—Robertson, W. H. (Saw Mill
COHASSET—*Foshee & Travis (Lumber & Saw Mill)
CREOLA—Hatter T. A. & Son (Saw Mill)
CYPRESS—Cypress Hardwood Co.
DEATSVILLE—Mills, A. D. (Saw Mill)
DECATUR—Jervis Lumber Co.
DELCHAMPS—*Fowl River Lumber Co. (Saw
DEMOPOLIS—Wood, H. L. Lumber Co. Mill)
EVA—Stewart, Wiley (Saw Mill)
EVERGREEN—Smith, H. L. (Saw Mill)
FACKLER—Jones Lumber Co. (Saw Mill)
FULTON—*Scotch Lumber Co. (Yellow Pine)
GADSEN—*Kyle Lumber Co. (Yellow Pine)
GANTT—Gantt, D. B. & Bro. (Saw Mill)
GENEVA—*Gulf Yellow Pine Co. (Yellow Pine)
Tatom Lumber Co. (Saw Mill)
GURLEY—*Roberts, W. T. (Hardwood)
HOLLYWOOD—§Noble, F. F. Co.

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HUNTSVILLE—*Huntsville Mfg. & Lumber
LAMISON—*Frost-Sibley Lumber Co. Co.
LOCKHART—*Jackson Lumber Co. (Yellow Pine)
LUVERNE—Bentley, Taylor & Beall (Saw Mill)
MAGAZINE POINT—*Baer, Rich. P. & Co. (See Baltimore, Md.)
MARBURY—*Marbury Lumber Co. (Yellow
MARLOW—Grove, J. W. (Saw Mill) Pine)
MOBILE—*Alabama Hardwood Lumber Co.
Bay City Lumber Co. (L.-L. Yellow Pine)
Bay Shore Lumber Co.
*Blackshar Co. (Yellow Pine & Saw Mill)
*Cameron, J. D. & Son (Lumber & Shin-
Hieronymous Bros. (Saw Mill) gles)
Hunter, Benn & Co. (Exporters)
Martin, Taylor Timber Co. (Lumber & Timber)
§Syson, W. K. & Co. (Pitch Pine, etc.)
MONTGOMERY—*Alabama Hardwood Mfg. Co.
§Alabama Lumber Co. (Lath & Shingles)
§Flowers, E. P. & Co.
*Montgomery Lumber Co. (Hardwood Lumber & Flooring, Ceiling, Finishing, Moulding, etc.)
§Southern Pine Lumber Co. (Yellow Pine)
§Vesuvius Lumber Co.
NEW DECATUR—Payne, E. C.
OAK GROVE—*Davis, M. L. (Yellow Pine)
POLLARD—Lindsey Lumber Co.
RICHBURG—*Henderson-Boyd Lumber Co. (Yellow Pine)
SANFORD—*Henderson Lumber Co. (Yellow
STOCKTON—*McMillan Bros. Pine)
Stockton Shingle Co.
SUMTER—*Sumter Lumber Co. (Yellow Pine)
VINEGAR BEND—*Vinegar Bend Lumber Co. (Yellow Pine)
WAGAR—*McClure Lumber Co. (Yellow Pine)

## ARIZONA TERRITORY.

FLAGSTAFF—*Arizona Lumber & Timber Co.
NOGALES—§Roy & Titcomb
PHOENIX—De Mund Lumber Co.
Ryder, H. W. (Saw Mill)
Valley Lumber Co.
TUCSON—Corbett J. Knox Lumber Co.
Tucson Lumber Co.
WILLIAMS—Saginaw & Manista Lumber Co.

## ARKANSAS.

ASHDOWN—*Bowles, J. R.
BEARDEN—*Cotton Belt Lumber Co. (Yellow
BEIRNE—Clark, J. G. (Saw Mill) Pine)
BLISSVILLE—Bliss-Cook Oak Co. (Band Sawed White & Red Oak)
CAMDEN—*Barlow & Kent Co.
CROSSETT—*Crossett Lumber Co. (Yellow
DELIGHT—*Delight Lumber Co. Pine)
DEQUEEN—*Williamson Bros. (Yellow Pine)
DEVALL BLUFF—*Stoneman-Zearing Lumber Co. (Hardwoods)
DRAUGHON—*Saline River Lumber Co. (Yellow Pine)
EAGLE MILLS—*Eagle Lumber Co. (Yellow
EARL—*Crittenden Lumber Co. Pine)
EL DORADO—*El Dorado Hardwood Mfg. Co.
*Eldorado Lumber Co.
ELLIOTT—*Iron Mountain Lumber Co. (Yellow Pine)
FAYETTEVILLE—Northwest Arkansas Lumber Co.
FORDYCE—*Fordyce Lumber Co. (Yellow Pine)
*Hampton Stave Co.
FORT SMITH—*Dyke Bros.
FROSTVILLE—*Red River Lumber Co. (Yellow Pine)
GIFFORD—*Steward, Alexander Lumber Co. (Yellow Pine)
GILMORE—*Chapman & Dewey Lumber Co.
GREENFIELD—*Greenfield Lumber Co. (Hardwood, Cypress, Oak, Ash, etc.)
GRIFFIN—Griffin Mill Co. (Saw & Planing Mill)
GURDON—*Gurdon Lumber Co. (Yellow Pine)
HELENA—*Hackley-Phelps-Bonnell Co.
*McDonald Bros. (Hardwood)
*Reeves, W. D. Lumber Co. (Box Lumber)
HOPE—*Hope Lumber Co. (Yellow Pine)
HORATIO—*McCoy, J. L.
JONESBORO—*Alfrey, H. (Tight Barrel. Circled Headings, from all Woods)
JUNCTION—*Cornie Stave Co.
LESTER—*Lester Mills Co. (Yellow Pine Finish. Moulded Castings & Base)
LITTLE ROCK—*Abeles, C. T. & Co. (Yellow Pine, Cypress Lumber, Moulding, etc.)
*Arkansas Cypress Shingle Co. (Shingles)
*Central Mill Co. (Lumber, Lath & Shin-
*Cypress Lumber & Shingle Co. gles)
Fee-Crayton Hardwood Lumber Co. (Ash, Hickory, Walnut, Cottonwood, Cypress, Persimmon, etc.)
Ferguson, C. E., Saw Mill Co.
*Ferguson Lumber Co. (Yellow Pine & Red
*Niemeyer, A. J. Lumber Co. Cypress)
MADISON—*Wheeler, J. W. & Co. (Hardwood)
MALVERN—*Wisconsin & Arkansas Lumber Co. (Yellow Pine)
MARIANNA—*Ind. & Ark. Lumber & Mfg. Co
L'Anguille Lumber Co. (Saw Mill)
MENA—*Watkins Lumber Co.
MILLVILLE — *Freeman-Smith Lumber Co. (Yellow Pine)
NEWPORT—Fee-Clayton Hardwood Lumber Co.
PARKIN—*Lansing Wheelbarrow Co. (Gum & Cottonwood Box Lumber, etc.)
PERLA—*Malvern Lumber Co. (Yellow Pine)
PIKE—*Johnson, Spencer Lumber Co.
PINE BLUFF—*Bluff City Lumber Co. (Yellow Pine & Cypress)
*Sawyer & Austin Lumber Co. (Lumber & Yellow Pine Saw Mills)
PRESCOTT—*Ozan Lumber Co. (Yellow Pine)
RISON—*Porter, J. I. Lumber Co. (Yellow Pine)
SAGINAW—*Saginaw Lumber Co. (Yellow Pine)
STAMPS—*Bodcaw Lumber Co. (Yellow Pine)
TEXARKANA—Buchanan, Wm. (Lumber Broker)
*Floyd, J. F. Lumber Co. (Yellow Pine & Cypress Shingles)
*Southern Pine Lumber Co. (Yellow Pine Mixed Cars a Specialty)
THORNTON—*Stout-Greer Lumber Co. (Yel-
TURRELL—Baker Lumber Co. low Pine)
WARREN—*Arkansas Lumber Co., The (Pine & Hardwood)
*Bradley Lumber Co., The (Yellow Pine)
*Southern Lumber Co. (Yellow Pine)
WESSON—*Edgar Lumber Co. (Yellow Pine)
WILMAR—*Gates Lumber Co. (Yellow Pine, Lumber & Cypress Shingles)

## CALIFORNIA.

ALBION—*Albion Lumber Co. (Redwood Lumber, Shingles & Ties)
BAKERSFIELD—Union Lumber Co.
BELLA VISTA—*Terry Lumber Co.
BERKELEY—*Bruce Lumber & Mill Co.
§Hunter Lumber Co.
BLACK DIAMOND—*Redwood Mfg. Co. (Redwood Lumber, Air Dried)
BOULDER CREEK—Bloome, I. T.
CASPAR—*Caspar Lumber Co. (Redwood Ties & Shingles)
CHICO—Stebbins, A. O. & Son (Saw Mill)
DUNCANS MILLS—*Duncan's Mills Land &
EUREKA—Bayside Lumber Co. Lumber Co.
*Dolbeer & Carson Lumber Co. (Redwood Lumber & Shingles)
*Elk River M. & Lumber Co. (Redwood, Saw Mill)
*McKay & Co. (Redwood Lumber & Shin-
FOREST HILL—*Finning, B. gles)
FORT BRAGG—*Union Lumber Co. (Redwood Lumber, Shingles & Ties)
FRESNO—Fassett Lumber Co.
Fresno Lumber Co.
*Hollenbeck-Bush Co.
Madary Planing Mill Co., Inc.
Valley Lumber Co.
GILROY—*Whitehurst & Hodges
GUALALA—*Empire Redwood Co. (Saw Mill)
HALF MOON BAY—Borden, Chas. W. Saw Mill
HOBART MILLS—*Overton Merc. Co. (White & Sugar Pine, Box Shooks, Door Shooks, Fruit & Packing Boxes, Lath Pickets, Shingles, Ceiling & Flooring, Rustic & Sliding Moulding, etc.)
KORBEL—Northern Redwood Lumber Co.
LOMPOC—*Salinas Valley Lumber Co.
LOS ANGELES—§Algoma Lumber Co.
§Blinn, L. W. Lumber Co.
§Culver Lumber Co.
§Morse & Briggs Lumber Co.
§National Lumber Co.
§Patten-Davies Lumber Co.
§San Pedro Lumber Co.
§Stanton, E. J.
§Western Hardwood Lumber Co.
§Wood, E. K. Lumber Co.
MENDOCINO—*Mendocino Lumber Co.
OAKLAND—§Derby, E. M. Co.
§Greater Oakland Co.
§Hidecker Lumber Co.
§Sunset Lumber Co.
OCCIDENTAL—*Meeker, M. C.
PASADENA—Blinn Lumber Co.
Kerckhoff-Cuzner Mill & Lumber Co.
PLACERVILLE—*Blair, J. & J. Lumber &
PLATEAU—*Benton, T. H. Land Co.
POINT ARENA—*White, L. E. Lumber Co. (Redwood, Sugar Pine & Cal. White Pine)
RED BLUFF—*Sierra Lumber Co. (Cal. White & Sugar Pine Lumber, Fruit Boxes, Drying Trays, Cedar Posts, Box Shooks, etc.)
REDWOOD CITY—McArthur & Hartley (Shingles)
SACRAMENTO—Friend & Terry Lumber Co.
SAN BERNARDINO—Gill, J. B. Lumber Co.
Suverkrup, John
SAN DIEGO—Russ Lumber & Mill Co.
§San Diego Lumber Co. (Redwood Lumber & Shingles)
SAN FRANCISCO—Acme Lumber Co., 6th &
Adams, W. J., Babcock bldg Channel
Allen & Higgins Lumber Co., Howard & Spear
*Bellingham Bay Lumber Co., Sansom & Chestnut
§Byxbee & Clark Co. (Redwood & Pine), Balboa bldg
§Carey, F. W. & Co., 112 Market
*Carter, Geo. E. & Co., Williams bldg
Caspar Lumber Co., Kohl bldg
Central Lumber & Mill Co., 21 11th
*Dieckmann Hardwood Co. (West Coast Mahogany, Spanish Cedar)
Dodge, E. J. Co., 16 California
Doe, Chas. F. & Co., Powell & Beach
*Dolbeer & Carson (Redwood Lumber & Shingles), Merchants' Exch bldg
Duncan's Mills, Land & Lumber Co., 112 Market
*Excelsior Redwood Co., 4th & Berry
Gardiner Mill Co., 16 California
Gray, G. D., Merchants' Exch bldg
*Gray's Harbor Lumber Co. (Fir, Spruce & Red Cedar Lumber & Shingles), 244 California
§Hanify, J. R. & Co. (Redwood), 24 Market
§Harmon, S. H. Lumber Co. (Pine, Spruce & Redwood), 5th & Bryant
§Hickman & Masterson, Mason & Jefferson
*Hobbs, Wall & Co. (Redwood Lumber), 633 Howard
Hooper, C. A. & Co., Balboa bldg
Hooper, Geo. Williams, 112 Market
*Hooper, F. P. & J. A., Merchants' Exch
*Humboldt Lumber Co., 205 Berry bldg
§Inman, Poulson & Co., 16 California
§Johnson-Schraeder Co., 268 Market
*Loma Prieta Lumber Co., Union Trust bldg
McKay & Co. (Redwood Lumber & Shingles), Monadnock bldg
*Mendocino Lumber Co., Crocker bldg
§Nelson, Chas. Co. (Redwood, Pine Shingles, Posts, etc.), 112 Market
Niehaus & Co. (Inc.) (Hardwood), 564 Brannan
§Olson-Mahoney Shipping & Comm. Co., ft of Powell
*Pacific Lumber Co. (Redwood, Pine & Shingles), California & Drum
*Pacific Pine Co. (Puget Sound Lumber, Rough Douglas Fir, R. R. Ties, Rustic Sidings, Bridge Timber, Car Sills, etc. for Export), Main & Howd
§Pollard & Co. (Redwood Lumber & Shingles), 110 Market
*Pope & Talbot (Lumber, Timber, Piles, Spars, etc.)
Port Blakely Mill Co., Drum & California
§Port Costa Lumber Co., 110 Market
*Renton, Holmes & Co. (Spars & Poles), Drum & California
Richardson Co., 42 Market
Rowe, F. H. Lumber & Mill Co., Army & Bryant
*Salinas Valley Lumber Co., Merchants Exchange bldg
§San Pedro Lumber Co., 110 Market
§Schouten, J. W. & Co. (Redwood, Pine Lumber & Shingles), 124 Townsend
§Sierra Lumber Co. (Pine, Spruce & Fir), Russ bldg.
Simpson Lumber Co., 112 Market
§Slade, S. E. Lumber Co. (Pine & Spruce), 245 Guero
§Stockton, A. L. Lumber Co., Merchants' 112 Market
*Tacoma Mill Co. (Douglas Fir, Oregon Pine, Plank, Timber, Ship Plank, Flooring, Rustic Ceiling, Lath, Pickets, Staves, Spars, Piling, Red Cedar Shingles, etc.), 310 Sansom. Works, Tacoma, Wash.
§Truckee Lumber Co. (of S. F.), Flood bldg
§Union Lumber Co. (Ties, Poles, Pine & Redwood Piles, Spars, etc.), Crocker
§Valley Lumber Co., 110 Market bldg.
Wendling Lumber Co., Flood bldg
*West, A. J. Lumber Co., 214 Front
§White Bros. (Hardwood Importers & Dealers), c Spear & Howard
§White, L. E. Lumber Co. (Redwood Lumber, Ties, Posts & Tan Bark), Balboa

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Wilson Bros. & Co., 324 Barry bldg
*Wood. E. K. Lumber Co. (Fir & Spruce),
SAN JOSE—Alameda Lumber Co. 112 Market
*Chase, S. H. & Co. (Lumber & Saw Mill)
*Glenwood Lumber Co. (Lumber & Mill Work)
Hubbard & Carmichael Bros. (Lumber)
*Santa Clara Valley Mill & Lumber Co. (Lumber & Mill Work)
SANTA ANA—Griffith, J. M. Co.
Pendleton, S. H.
SANTA BARBARA—*Humphrey, G. W. & Co. (Planing Mill)
*Union Mill Co. (Planing Mill)
SANTA CRUZ—*Hihn, F. A. Co.
SCOTIA—*Pacific Lumber Co. (Redwood, Pine & Shingles)
SELMA—*Olsen & Henrikson (Planing Mill)
SISSON—*Wood & Sheldon Lumber Co. (Saw Mill, Lumber, etc.)
SUNNY SOUTH—Power, H. T. (Saw Mill)
Sugar Pine Mill Co.
WESTPORT—Pollard Lumber Co.

## COLORADO.

COLORADO SPRINGS — Crissey-Fowler Lumber Co.
*Newton Lumber & Mfg. Co.
DENVER—*Bingham, H. W., Larimer, 2d & 3d
English, R. W. Lumber Co., 16th c Arapahoe
Faris, A. N., 1429 Milwaukee
Farrar & Guy, W 12th av & S 4th
Fleming Bros., 139 Bway
Hallack & Howard Lumber Co., Larimer c 17th
Lewis & Wheeler Merc. Co., 1537 18th
†McPhee & McGinnity, 18th c Wazee
§Oregon Lumber Co., 1648 Platte
Salzer, B. F. Lumber Co., Idaho c Virginia av
Sayre-Newton Lumber Co., 23d c Blake
Tabor-Pierce Lumber Co., W 1st av, c
GREELEY—Clayton Lumber Co. Santa Fe av
Mayher, Wm.
PUEBLO—Foley, T. H. Lumber Co.
Newton Lumber Co.
TRINIDAD—Davis, O. L. Lumber Co.
Hughes Bros. Lumber Co.

## CONNECTICUT.

AVON—Woodford, H. W.
BRIDGEPORT—§Burritt, A. W. Co.
Miller, Frank Lumber Co. (Saw Mill)
Park City Lumber Co.
West End Lumber Co.
HARTFORD—Capitol City Lumber Co.
*Conn. Valley Lumber Co.
§Harlow Lumber Co.
§Hartford Lumber Co. (Pine, Hardwood, Lath, Shingles, etc.)
Taylor, Edwin Lumber Co.
MERIDEN—Bishop, Dexter L. Co. (Saw Mills)
§Lyon & Billard Co.
NEW HAVEN—§Connecticut Box Co. (Lumber & Shooks, etc.)
*Crosby & Beckley Co. (Hardwood)
§De Forest & Hotchkiss Co., 115 Water
*Elm City Lumber Co.
Fogg, Ezra D. Co.
Hartshorn, F. E.
§Lampson Lumber Co. (Spruce, Southern Pine, Cypress)
*New Haven Saw Mill Co. (Southern Pine)
*Sanford & Treadway (Hardwoods)
NEW LONDON—§Chappell, F. H. & A. H. Co.
*Raymond, L. Q. (Saw Mill, Ties, Poles, Timber, etc.)
NORTH HAVEN—Doolittle Bros. (Saw Mill)
NORWICH—§Brewer, A. Henry
Potter. A. L. & Co. (Saw Mill)
SALEM—Clark, M. S. (Saw Mill)
SEYMOUR—Hoadley, Edw. L. (Saw Mill)
STAMFORD—§Getman & Judd Co.
TORRINGTON—*Wadhams, F. L. (Saw Mill)
WALLINGFORD—Wallingford Lumber Co.
WATERBURY—Brass City Lumber Co., 60 Meadow
City Lumber & Coal Co., 56 S Willow
§Tracy Bros. Co.
Waterbury Lumber & Coal Co., 107 Meadow
WESTFORD—Barlow, A. G. & Son
WEST HAVEN—Richards, H. H. Lumber Co.
WILLIMANTIC—Hillhouse & Taylor
WINSTED—*Bronson Bros.
*Buckley, F. E. (Saw Mill, etc.)
Burwell, J. C.
Tiffany & Pickett (Saw Mill)

## DELAWARE.

LEWES—Arnell, Robt.
Ingram, A. P. & Co.
MILFORD—Milford Lumber Co.
NEW CASTLE—Elaison, J. T. & L. E.
SEAFORD—Parsons, S. H. (Saw Mill)
WILMINGTON—§Canby, Hy. M. (White & Yellow Pine, Hardwoods, etc.
§Cranston, John A. Lumber Co.
Diamond Lumber Co.
*Kent, Lindley C. Co.
Simmon, S. G. & Bro.

## FLORIDA.

APALACHICOLA—*Cypress Lumber Co. (Band Sawed Gulf Cypress, Long, etc.)
BAKERS MILLS—High, Jno. (Saw Mill)
BAYARD—Dannelly, J. M. & Son
BLUFF SPRINGS—Byrne, P. C. (Saw Mill)
CARRABELLE—*Franklin County Lumber Co.
CARTERS—Carter Mfg. Co. (Shingle Mill)
Carver, E. O. (Crate Mill)
CARYVILLE—*Wood, Geo. E. Lumber Co.
CENTURY—*Alger-Sullivan Lumber Co. (Yellow Pine)
COLEMAN—Turner, J. T. & Co.
DE FUNIAK SPRINGS—*Beach, Rogers & McPhail Lumber Co. Co.
DUPONT—White, U. J. Co. (Saw Mill)
FERNANDINA—Borden, N. B. & Co. (Pitch
*Cooney, Eckstein & Co. Pine Exporters)
Duryee, W. B. C. (Lumber Broker)
McNair & Son (Saw & Planing Mill)
HARNEY—*Beckwith & Warren Bros.
*Seminole Cypress Co.
JACKSONVILLE—Baxter, G. S. & Co.
Corse, Montgomery (Shingle Mill)
*Cummer Lumber Co. (L. L. Yellow Pine)
*Ensign Lumber Co.
Eppenger & Brussell Co. (Yellow Pine), Dyall Upchurch bldg
Gress Mfg. Co. for Fla.
Hirsch Lumber Co.
*Hunter, Dexter (Yellow Pine)
Long, F. W. & Co. (Cypress & Yellow
*West Lumber Mfg. Co. Pine)
§Weston-Zaring Co.
MONTBROOK—*McNair & Wade Lumber Co.
MUSCOGEE—*Southern States Lumber Co. (Yellow Pine)
NOCATEE—*King Lumber & Mfg. Co.
PALATKA—*Selden Cypress Door Co. (Cypress)
Tilghmann, N. J. & Sons (Lumber & Shingle Mill)
*Wilson Cypress Co. (Cypress Lumber, Siding, Shingles, etc.)
PENSACOLA—*Baars, H. & Co. (Pitch Pine)
*Keyser-Muldon Co. (Exporters)
*Pensacola Lumber Co. (Pitch Pine Exporters)
Robinson-Point Lumber Co. (Saw Mill)
§Robinson, Rix M. (Exporter)
Runyan Co. (Saw Mill)
*Southern States Lumber Co.
PINE BARREN—*McMillan Mill Co. (Yellow Pine)
PLANT CITY—Warnell Lumber & Veneer Co.
RODMAN—*Rodman Lumber Co. (Saw Mill)
WALDO—Canthen & Co. (Shingle Mill)
WATERTOWN—*East Coast Lumber Co. (Saw
WEST LAKE—West Bros. (Saw Mill) Mill)
WEST PALM BEACH—Lainhart & Potter
WHITFIELD—Kelly, J. I. Co. (Saw Mill)
WHITE SPRINGS—*Camp, R. J. & B. F. Lumber Co. (Yellow Pine)
WILLISTON—*Medlin, R. D. & Co. (Yellow Pine)

## GEORGIA.

ABBEVILLE—*Wilkinson Co. (Shingle Mill)
ADRIAN—Rentz, E. P.
AILEY—Coursey, J. A.
Sharpe, Grove (Saw Mill)
AIMAR—Aimar, W. W. (Saw Mill)
ALAMO—Sears, H. L. (Shingle Mill)
ASHBURN—*Betts, J. S. Co. (Yellow Pine, Lumber, Lath & Shingles)
ATHENS—Moss, R. L. Mfg. Co. (Planing Mills)
ATLANTA—*Alexander Lumber & Mfg. Co., 606 Empire bldg
Atlanta Hardwood Co., McDonough rd, Sou Ry.
Colcord Lumber Co., Peters bldg.
§Crockett, D. T., Fourth Nat'l B'k bldg
*Enterprise Lumber Co., 603 Candler bldg
George & Allen Lumber Co., Empire bldg
§Haas, Albert Lumber Co., 1030 Candler
*Hosch Lumber Co., Century bldg bldg
§Lake, Frank G., 24 Walton
§Lowe, E. E. Co., Fourth Nat'l B'k bldg
§Piedmont Lumber Co., Austell bldg
*Ray, D. J., 510 Temple ct
*Royal Lumber Co., Empire bldg
§Simpson & Harper, Fourth National Bank bldg
§Smith & Simpson Lumber Co., Peters bldg
Union-Pinopolis Saw Mills, Empire bldg
§West Lumber Co., Peters bldg
Williams, G. O. (Lumber & Planing Mill), 391 Marietta
Willingham, E. G. & Sons (Lumber & Planing Mill), 342 Whitehall
Willingham-Lift Lumber Co., 200 Murphey
Woodward Lumber Co., 25 Murphey
§Zuber, J. W., Empire bldg
AUGUSTA—*Augusta Lumber Co. (Long Leaf Yellow Pine)
*Perkins Mfg. Co. (Yellow Pine)
*Woodward Lumber Co. (Yellow Pine)
BAINBRIDGE—*Flint River Lumber Co. (Yellow Pine)
§Ramsey-Wheeler Co.
*Swindell, E. & Co. (Mfrs. & Exporters of Yellow Pine)
BEECH HILL—Ivey, H. J. (Saw Mill)
BLAKELY—*Flowers Bros. Lumber Co. (Yellow Pine Rift Flooring a Specialty)
BRINSON—*Stuart Lumber Co. (Yellow Pine)
Warren, S. J. (Saw Mill)
BRUNSWICK—§Aiken, Frank D. (Red Cypress & R. R. Ties, for Export, etc.)
Broadhead, Jas. E. (Lumber & Crossties)
Brown & Co. (Cross Ties, Lumber)
*Cooney, Eckstein & Co. (Yellow Pine Lumber & Cross Ties)
§Emanuel, N. & Co. (Lumber & Cross Ties)
Hirsch Lumber Co.
*Taylor-Cook Cypress Co. (Yellow Pine)
CEDARTOWN—Bailey, S. C. (Saw Mill)
CORDELE—Cordele Lumber Co. (Lumber, Shingles & Lath)
CUTTING—*Georgia Lumber & Turpentine Co.
DALTON—*Alaculsey Lumber Co. (Saw Mill)
*Cherokee Mfg. Co.
*Farrar Lumber Co. (Yellow Pine, Brackets, Blocks & Mill Finish)
DARIEN—*Hilton & Dodge Lumber Co. (Cypress & Yellow Pine)
ELLIJAY—§Shippen Bros. Lumber Co.
KESTLER—*Boyd-McDavid Lumber Co. (Yellow Pine)
LAGRANGE—Pike Bros. Lumber Co.
LAWRENCEVILLE—*Ambrose, J. A. & Co.
Jackson, C. P. & Bro. (Saw Mill)
LONG POND—*Calhoun, J. W. & Wm. (Saw Mill)
LUMBER CITY—*Ocmulgee River Lumber Co.
LYONS—Thompson, J. L. (Saw Mill)
MACON—*Massee & Felton Lumber Co. (Long Leaf Yellow Pine)
MINEOLA—*Mineola Mill Co. (Yellow Pine)
MOULTRIE—*Colquitt Lumber Co.
Corbett & Taylor (Saw Mill)
*Daugherty, Morrison & Co.
*Huber, Norman Lumber Co.
*Southern Lumber Co.
MOUNT PLEASANT—Aiken, L. R. & Bro.
NEWNAN—*Cole, R. D. Mfg. Co.
NORTH AUGUSTA—*Industrial Lumber Co. (Yellow Pine)
OCILLA—*Ensign-Oskamp Co. (Saw Mill)
OLYMPIA—West Yellow Pine Co.
ROME—*O'Neill Mfg. Co. (Yellow Pine)
SAVANNAH—Bacon, A. S. & Sons (Shingles, Lumber, etc.), 15 Whitaker
Calhoun, J. A. (Exporter), 228 Bay E
§Craig, G. F. & Co.
*Dixon Lumber Co. (Planing Mill, etc.)
*Eagle Mfg. Co. (Boxes, etc.)
§Georgia Pine Co.
§Granger & Lewis (Wholesale Export Lumber)
§Heard Lumber Co.
*Hirsch Lumber Co. (Lumber, Bridge Timber, Poles, Ties, etc.)
Jarrett Bros. (Saw Mill, etc.)
Perez-Petinto & Co. (Exporters Lumber)
*Reppard, Snedeker & Co. (Lumber & Shingles)
*Southern Pine Co. (of Georgia), (Yellow Pine Lumber, Rough & Dressed Shingles, Lath, Mouldings, Newell Posts, Balusters, Flooring & Heavy Timber)
*Vale Royal Mfg. Co. (Shingle Mill)
THOMASVILLE—§Phillips, J. L. & Co.
TIFTON—§Gress Mfg. Co.
*Phillips Lumber Co.
*Tift, H. H. (Yellow Pine)
Tifton Lumber & Mfg. Co. (Planing Mill)
VALDOSTA — Fender Lumber Co. (Saw & Planing Mill)
WADLEY—Wadley Yellow Pine Co.
WRIGHT—*Garbut Lumber Co.
ZENITH—Pearson & Avera (Saw Mill)

## IDAHO.

BONNERS FERRY—Bonners Ferry Lumber Co. (Western Soft Pine, Idaho White Pine, Hard. Spruce & Cedar Lumber & Lath.
BOISE—*Payette Lumber & Mfg. Co. etc.)
*Ridenbaugh. W. H. (Lumber & Saw Mills)
*Ruby Creek Lumber Co.
*Shaw Lumber Co. (Lumber & Saw Mills)
COEUR D'ALENE—Blackwell Lumber Co. (Idaho White Pine, Western Soft Pine. White Fir)

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Coeur D'Alene Lumber Co. (White Pine Products)
Lewis, B. R. Lumber Co.
Reeves-Farrel Lumber Co.
Woods Lumber Co. (Saw Mill)
POTLATCH—*Potlatch Lumber Co. (Idaho White Pine, Western Soft Pine, Lap Pine Siding)
SAND POINT—*Humbird Lumber Co. (Ltd.) (White Pine Lumber, Red Pine & Hard, Cedar Poles & Split Cedar Posts, etc., Ties, Poles & Posts, Cedar Poles & Split Cedar Posts)
*Sand Point Lumber & Pole Co. (Red Cedar Posts, Poles, Piling & Shingles)
SPIRIT LAKE—*Panhandle Lumber Co. (Panhandle Pine)

## ILLINOIS.

ANNA—*Anna Lumber & Mfg. Co.
BELLEVILLE—Heinrich Lumber Co.
Liese Lumber Co.
Reis, J. B. Lumber Co.
Reis, M. & H.
BENTON—Ward, T. J. (Saw Mill)
CAIRO—§Atwood, F. H. Lumber Co. (Lumber & Boxes, Veneered & Sawed Egg Cases, Box Shooks, etc.)
*Chicago Mill & Lumber Co. (Lumber & Box Shooks), 140 W Chicago av
*Dunbar Mill & Lumber Co.
§Hurd, O. P., Jr., & Co., Cairo, Ill.
Langan, Peter T. (Saw Mill)
Nordman, F. W. (Planing Mill)
Smith, W. E. Lumber Co. (Red & White Oak)
*Sondheimer, E. Co. (Hardwood & Quartered Sawed Oak)
*Three States Lumber Co. (Hardwood, Domestic & Export Cottonwood & Gum for Boxes)
*Weis-Peterson Box Co. (Sawed & Veneered Egg Cases, etc.)
CHARLESTON—§Andrews, B. P. & Co.
CHICAGO—§Adams, Herbert L. (Commission Merchant), 138 Washington
Alexander Lumber Co., 77 Jackson boul
§Allen, Edmund A. (Commission Merchant), 134 Washington
Anguera Lumber Co., Fisher bldg
Attley, J. M. & Co., 9 Jackson boul
Bader, John Lumber Co., Dominick ft A
*Bay De Noquet Co., 9 Jackson boul
§Benedict, John S. (Hardwood & Wagon Stock), N Halsted & W Kinzie
*Bigelow Bros. & Walker Co. (Yellow Pine, Cypress & Hardwood), 131 La Salle
§Bowen, Chas. P., 184 La Salle
§Brooks & Ross Lumber Co. (Pine & Hemlock), 171 La Salle
Buckner-Saunders Lumber Co., 279 Dearborn
§Burns, Jno. E., Lumber Co. (Yellow Pine), 700 W Chicago av
§Carey-Lombaard Young & Co., 205 La Salle
Carney Bros. Co., 129 Monroe
§Caryl, Alex. H. (Commission Merchant), 138 Wash'n
§Chicago Car Lumber Co. (Fir, Oak & Yellow Pine Timbers, Ties, Railroad & Car Materials), Pullman bldg
§Chicago Lumber & Coal Co., 138 Wash'n
§Chicago Mill & Lumber Co., 938 W Chicago av
*Cicero Lumber Co., 355 N 50th
§Continental Piling & Lumber Co. (Piling & Heavy Timber), 135 Adams
*Cottage Grove Mfg. Co. (Sash, Doors, Blinds), 3912 Langley av
*Crandall & Brown (Red Cypress), 3300 Center av
§Crane, W. B. & Co., 22d & Sangamon
§Cross, Clarence L. (La. Red Cypress), Monadnock blk
§Darling, Chas. (Hardwood), 1200 W 22d
§Deacon, J. C. & Co. (Pine), Loomis S of 22d
§Deeves, G. H. Lumber Co. (Hardwood), 1507 Railway Exch bldg
De Vries, S. J. & Co., 843 W 47th pl
§Douglass, D. B. & Co., 98 Jackson boul
§Empire Lumber Co. (Cherry, Oak & Chestnut), 2034 Southport av
*Estabrook-Skeele Lumber Co. (Oak, Ash, Gum, Wagon Stock, etc.), Fisher bldg
§Fathauer, Theo. Co. (Hardwood), 1423 Cherry av
*Flanner-Steger Land & Lumber Co. (Hardwoods, White Pine, Yellow Pine, etc.), Fisher bldg
§Frees, Benj. M., 234 Lasalle
§Gillespie, John Lumber Co., Lumber & Gillis & Co., 42 Madison
§Gourley, Arthur Co. (Pines), 108 La Salle
§Green, Geo. Lumber Co., 22d & Canal
§Gustorf, Fred'k (Commission Merchant), 108 La Salle
§Hayden & Westcott Lumber Co. (Plain & Quartered Sawed Oaks, Poplar, Rock Elm, Yellow Pine, etc.), 9 Jackson boul
*Heath, Witbeck & Co. (Maple, Cypress & Basswood), 1035 W 22nd
§Hendrickson, F. S. Lumber Co. (Lath, Gum Squares, Cottonwood, Elm, etc.), Masonic Temple
§Herbert, Wm. A. & Co., 131 La Salle
*Hettler, Herman H. Lumber Co. (Maple Flooring "Monarch Brand"), 2601 Elston
*§Hines, Edward Lumber Co. (All Kinds), Lincoln S of Blue Island av
*Holt Lumber Co., 315 Dearborn
*Houston, Geo. T. & Co. (Yellow Pine, Hardwood & Cypress), 143 Dearborn
Howes Lumber Co., 545 W 71st
*Industrial Lumber Co. (Yellow Pine), Ry Exch bldg
§Joyce, W. T. Co., 206 La Salle
*§Keith Lumber Co. (Mahogany & Foreign Woods), W 14th & Wood
§Kelley, W. E. & Co., 9 Jackson boul
Kemler Lumber Co., 166 Adams
§King, W. O. & Co. (Yellow Pine, Maple, Cuban & Mahogany & Hardwood), 2458 S Loomis
§Kirby Lumber Co., 9 Jackson boul
§Knudson & Mercer Lumber Co. (White & Yellow Pine, Lath, Shingles, etc.), 42 Madison
§Lesh & Matthews Lumber Co. (Native & Hardwood), 204 Dearborn
Lockwood & Strickland Co., Halsted & 49th
§Lombard, E. B. (Pine & Hardwoods), R'y Exch bldg
*Lord & Bushnell Co. (Yellow Pine), 1155 W 22d
Lowe, Perley & Co., Ry Exch bldg
*Marsh & Bingham Co. (L. L. Yellow Pine, also Fir & Oak), Old Colony bldg
Mears-Slayton Lumber Co., 1237 Belmont av
§Mercer & Brannum (White & Yellow Pine, Lath, Shingles, etc.), 42 Madison
§Messinger Hardwood Lumber Co. (Hardwood), 2139 Elston
§Mickle, Geo. T. Lumber Co. (Yellow Pine, Timber, etc.), Chamber of Commerce bldg
§Miller, C. P. & Co. (Wisconsin Lumber, Lath, Shingles, etc.), 9 Jackson boul
§Miller, Jas. G. Lumber Co. (Commission Merchants), 108 La Salle
*Mississippi Lumber Co. (Long Leaf, Yellow Pine), 9 Jackson boul; Mills: Quitman, Miss.
*Morgan Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.; Shingles, White Cedar, Red Cedar & Pine), W 22nd & S Union
*Morgan Sash & Door Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.; Shingles, White Cedar & Pine), Blue Island av & Wood
Nourse-Taylor Lumber Co., 138 Wash'n
§Oconto Co., 9 Jackson blvd
*Paepcke-Leight Lumber Co. (Box Shooks & Nail Works), 938 W Chicago av
*Paine Lumber Co. (Mill Work), Railway Exchange bldg
Paltzer, C. A. Lumber Co., 3700 S Centre av
*Pate, D. S. Lumber Co. (Long Leaf Yellow Pine), Fisher bldg
§Pike Dial Lumber Co., 204 Dearborn
Pilsen Lumber Co., W 22d c Laflin
§Porter, Frank (Commission Merchant), 134 Washington
Pulaski Lumber Co., 1835 N Robey
*Rittenhouse & Embree Co. (Oak & Maple Flooring), 949 Easton av
§Sargent Lumber Co., 163 Randolph
Schroeder, John, 277 Dearborn
*Schultz Bros. (Maple, Oak & Pine Flooring & Cedar Poles, etc.), Old Colony bldg
Schultz Bros. & Cowen (Poplar, Oak, Ash, Chestnut, etc.), Old Colony bldg
§Serrell, W. L. (Fir, Spruce, Cedar, Redwood, Sugar Pine), Monadnock bldg
Shoot, W. E. & Co., 315 Dearborn
*Soper Box Co. (Hardwood), 838 Loomis
§Soper Lumber Co., 22d & Loomis
*South Side Lumber Co. (Maple & Oak Flooring), 2259 S Ashland
*Spalding Lumber Co. (Lumber, Lath & Shingles), 115 Adams
§Spry, John Lumber Co., W 22d & S Ashland av
Stewart, A. T. Lumber Co., 7801 Greenwood av
Stone, Frank B., Ry Exch bldg
§Street, Chatfield & Co., 1880 W Fullerton av
*§Thornton, E. A. Lumber Co. (Box Shooks), Chamber of Commerce bldg
§Tibbets-Cameron Lumber Co., 1808 Greenleaf av
§Trainer Bros. Lumber Co., Loomis S of 22d
*Turnbull-Joice Lumber Co. (Yellow Pine), 164 Dearborn
§Underwood, J. Platt, 84 Van Buren
§Upham & Agler (Hardwoods), 125 Monroe
§Vinnedge, A. R. Lumber Co (Hardwoods), 1225 N Branch
Walworth & Neville Mfg. Co. (Yellow Pine), Heyworth bldg
*Ward Lumber Co. (Hardwood), Chamber of Commerce bldg
§Wells, R. A. Lumber Co. (Hardwood), 234 La Salle
Wheelock Lumber & Mfg. Co., 1750 N Campbell av
*White Lake Lumber Co., 138 Washington
§White Lumber Co. (Hardwood), 22nd & Laflin
Polished & Matched Ends), 2201 Throop
*Wilce, T. Co. (Maple & Hardwood Flooring,
*Willey, C. L. (Mahogany & Foreign & Domestic Hardwoods), 2564 S Robey
*Wood, Geo. E. Lumber Co. (Wis. Pine), 125 Monroe
§Wuichet, Louis (White Pine, Sugar Pine & Soft Pine), R'y Exch bldg
COBDEN—Bell, James (Est. of) (w. & r. lumber)
*Mesler, W. P. & Co. (Lumber & Fruit Boxes
CREAL SPRING—Dugger, A. A. (Lumber)
DALE—*Roundtree & Thompson (Staves)
DANVILLE—Danville Lumber Co.
Hooten, Chas. B.
Trent Bros.
DECATUR—*G. S. Lyons & Sons Lumber & Mfg. Co.
EAST ST. LOUIS—*Eade, J. C. Mfg. Co.
*East St. Louis Lumber Co., 8th & Air Line Ry
*Goedde, B. & Co., Missouri av & 10th
Reis, H. G. Lumber Co.
ELGIN—Rinehimer Bros. Mfg. Co.
FULTON—*Joyce Lumber Co. (Lumber, Lath, Shingles & Mouldings)
GALESBURG—§Simpson, Jas. C. & Co.
HOOPESTON—Moore & McFerren (Saw Mill, Lumber & Cottonwood Box Shooks)
KELL—Hays, O. G. (Saw Mill)
KENNEY—*Andrews, B. P. & Co.
LA SALLE—Hunter, Stevens & Co.
McLEANSBORO—*Wright, T. B. & Sons
MARTINSVILLE—Sallee, Thos. M. (Saw Mill)
MATTOON—*Andrews Bros.
*Gabbert Lumber Co. (Lumber & Planing Mill)
METROPOLIS—*Harris & Cole Bros. (Poplar & Oak Lumber, Wagon Box Material, Turned Work & House Trimmings, Export & Turned Work)
MOLINE—*Dimock, Gould & Co.
MOUND CITY—*Meyer, C. F. & Co. (Staves and Headings)
*Williamson-Kuny Mill & Lumber Co. (Southern Hardwoods, Long Oak Timber, Lath)
MOUNT VERNON—*Louth, J. W. (Hardwood)
NEBO—Minier Bros.
OAK PARK—Barr & Collins
PEORIA—§Benedict, C. D. & Co. (Yellow Pine)
§Hinzie, Miss Jane M.
Knetzger, Chas. Lumber Co.
§Lord, Lee H. & Co.
Miller, Joseph & Sons (Lumber and Contractors)
Proctor, J. C. Lumber Co.
PERU—Maze, Walter H. & Co. (Planing Mill)
QUINCY—*Menke-Grimm Planing Mill Co.
Moller & Vanden Boom Lumber Co.
ROCKFORD—§Parsons Lumber Co.
§Smith, Du Plain & Crumb Co.
§Stone, F. P.
ROCK ISLAND—*Rock Island Lumber & Mfg. Co. (Lumber, Lath & Shingles)
*Weyerhaeuser & Denkmann Co. (White Pine)
SPRINGFIELD—Eielson, A.
Schuck, J. H. & Son
VANDALIA—Sonneman, C. G.
WEST SALEM—Fishel, A. (Saw Mill)
WINCHESTER—Hunter, Allen & Co.

## INDIANA.

AKRON—Akron Lumber Co.
ANDERSON—Atherton, M. & Sons (Planing Mill)
Springer, Geo. E. (Planing Mill)
Winters, Mercer & Brannum Lumber Co.

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ATTICA—Attica Lumber Co.
Martin, H. C. & Co.
AVILLA—Yelser Bros. (Saw & Planing Mill)
BATESVILLE—Hillenbrand (The) Co.
BEDFORD—Lanz-Fry Lumber Co.
BERNE—Berne Lumber Co. (Saw Mill)
BIRDS EYE—Southern Indiana Mfg. Co. (Spokes & Bldg Material)
BLOOMINGTON—Fulwider, W. A. (Lumber)
*Waldron, Hill & Buskirk (Hubs & Spokes)
BLUFFTON—Cline, A. B.
Eaton, Jas. B. (Lumber & Piling)
BOONVILLE—*White, C. P. Lumber Co. (Hardwood, Quartered Oak)
White, R. B. Lumber Co.
BRAZIL—Brazil Lumber Co.
Keasey, N. T. Lumber Co. (Saw Mill)
Wilder, C. E. & Co. (Planing Mill)
BROOKVILLE—Ferris, John & Son (Planing Mill)
BROWNSTOWN—Cunningham, J. W. (Saw Mill)
CONNERSVILLE—Connersville Lumber Co.
CONVERSE—*Murphy & Kenny (Lumber & Planing Mill)
CORYDON—Hickman, Levi (Saw Mill)
COVINGTON—Williams, Geo. W. (Saw Mill)
CRAWFORDSVILLE—Big Four Lumber Co. (Lumber & Veneering)
Burkholder, Saml. Lumber Co. (Hardwood)
Hoosier Stave & Lumber Co.
CROWN POINT—Root, D. A.
CUMBERLAND—Duncan & Barrett (Saw Mill)
DARLINGTON—*Lynch, W. B. (Lumber & Saw Mill)
DUNKIRK—Dunkirk Lumber Co.
DUPONT—Graston, G. W. (Saw Mill)
§Guthrie, W. A.
EAST CHICAGO—*Lesh, Prouty & Abbott Co. (Walnut exclusively)
EDINBURG—*Maley, Henry (The) Co. (Hardwood)
ELKHART—*Elk Valley Lumber Co.
Martin & Amidon
Monger, C. L. (W. & Com. Lumber)
§Monger, R. W.
ELWOOD—Heffner's, Louis Sons (Saw & Planing Mill)
Winters Lumber Co.
EVANSVILLE—*Evansville Planing Mill Co.
*Helfrich Lumber & Mfg. Co. (Saw Mill)
§McFerson & Foster (Cottonwood, Poplar Box Shooks)
*Maley, Hy. Lumber Co. (Quartered White Oak, Plain Red & White Oak, Poplar, Hickory, Ash & Walnut)
*Maley & Wertz (Hardwoods, Quartered Oak & Saw Mill)
Reitz's, Clemens Sons Co. (Saw Mill)
Reitz, John A. & Sons. (Saw Mill)
Schultze, Waltman & Co. (Saw & Dimension Mill)
Thompson, Thayer & McGowan (Saw Mill)
Von Behren Mfg. Co. (Spokes & Bentwood)
§Wolfin-Luhring Lumber Co. (Yellow Pine & Southern Hardwoods)
Young & Cutsinger (Saw Mill)
FERDINAND—*Beckman, J. H. & Sauer (Saw & Planing Mill)
FORT WAYNE—*Diether Lumber Co. (Hardwood)
Fort Wayne Lumber Co.
Franke, H. (Planing Mill)
*Gilmartin, Edw. (Hardwood & Planing Mill)
Hilker Bros. (Saw Mill)
*Hoffman Bros. Co. (Hardwood & Veneers)
Klett, Jacob & Sons (Planing Mill)
*Mossman, Wm. E.
*Perrine-Armstrong Co. (Long Timber, etc.)
FOWLER—Evans & Callaway
FRANKFORT—Benefield & Son (Saw Mill)
GOSHEN—*Irwin, Jno. W. (Est. of)
*Sanders & Egbert Co. (Hardwood)
*Young-Greene Lumber Co. (Hardwood)
GREENCASTLE—*Barnaby, C. H. (Hardwoods & Oak Veneers)
GWYNNEVILLE—*Wilcoxen, W. W. (Hardwood)
HAGERSTOWN—Werking & Keagy (Saw Mill)
HARTFORD CITY—*Willman Lumber Co. (Saw Mill & Lumber)
*Winklebleck & Walters (Saw Mill & Hardwood Lumber)
HUNTINGTON—Kenower, John & Sons (Hardwood & Planing Mill)
INDIANAPOLIS—Advance Veneer & Lumber Co., Mass. av & Adams
*Bachman, F. M. Co., Madison av c Lincoln
§Buddenbaum Lumber Co., New York c Capitol
Lumber Co., 849 Mass. av Pine
§Carter, Lee & Co., 1621 W Washington
*Christian Lumber Co. (Hardwood), 701 E. Wash'n
§Dickson, Jas. C. (Oak, Ash & Poplar), 936 E. Vermont
§Dynes Lumber Co., E 30th & Monon Ry
Eaglesfield, Wm. Co., 19th & L E & W R R
§Eichholtz, Geo. W. & Son, Lemcke bldg
Eldridge, E. H. Lumber Co., 312 S New Jersey
§Foster Lumber Co. (Hardwood, Veneered Doors, Mantels, Stairways, etc.), 802 N Senate av
Greer-Haughton Lumber Co., 822 Indiana
*Indianapolis Manufacturers' & Carpenters' Union (Pine, Poplar & Ash), 203 S New Jersey
§Long-Knight Lumber Co. (Plain & Quartered Oak, White Ash. etc.), 1025 Lewis
*Mainland Mfg. Co. (Hardwood), 2406 Yandes
Mass-Neimeyer Lumber Co., E 22d & Monon R. R.
§Michigan Lumber Co. (Long Joist & Heavy Timber), 929 E St Clair
§Pinnell, J. W., State Life bldg
§Talge Mahogany Co., 1101 E 13th
*Walnut Lumber Co. (Hardwood), 1321 Lewis
Wright-Bachman Lumber Co., Madison av & Lincoln
KOKOMO—*Armstrong-Landon Co. (Hardwood & Pine)
Indiana Lumber Co.
LAFAYETTE—*Lafayette Lumber & Mfg. Co.
LOGANSPORT—Fernald, W. L. (Saw Mills)
MARION—§Barley & Spencer Lumber Co.
§Marion Lumber Co.
MICHIGAN CITY—§Colburn, A. R. Co.
MUNCIE—Kirby-Wood Lumber Co.
*Meeks, J. Arthur (Dimension, Stock)
Muncie Lumber Co.
NEW ALBANY—*Roberts & Conner Co. (Veneer & Lumber)
NEW MARKET—*Childers, W. R. (Hardwood)
NORTH VERNON—*Cone, J. D. (Spokes, etc.)
*Litchfield Bros. (Hardwood)
*†North Vernon Lumber Co. (Hardwood)
PLEASANT LAKE—*Goodwin Lumber Co.
PLYMOUTH—*Morris, C. L. (Saw & Planing Mills)
PORTLAND—*Adams, D. L. (Staves & Headings)
North, Frazier & Co. (Saw Mill)
PRINCETON—*Nickey, A. B. & Sons (Band Sawed Hardwood)
RICHMOND—*Johnson, B. & Son (Lumber, Piles & R. R. Ties)
§Kramer, C. & W. (Hardwood)
ROCKVILLE—*Ferguson & Co. (Planing Mill)
RUSHVILLE—§Case, J. D. (Hardwood)
Pinnell-Tompkins Lumber Co.
SALEM—§McCowen, H. A. & Co.
SEYMOUR—*D'Heur & Swain Lumber Co. (Hardwood)
SHELBYVILLE—*Frechtling & Morner (Saw Mill & Bending Works)
Stroup, S. P. Lumber Co.
SOUTH BEND—*Fullerton-Powell Hardwood Lumber Co. (Hardwood & Box Lumber)
*Indiana Lumber & Mfg. Co.
Miller & Donahue Lumber Co.
Page, R. G. Lumber Co.
*Perley Hardwood Lumber Co. (Hardwood & Bent Stock)
SPENCER—*Bayne, Thos. D. (Hardwood Lumber)
TERRE HAUTE—*Hooton, R. A. & Co.
VINCENNES—*Maley, Wertz & Snepp (Hardwoods)
WASHINGTON—*Murdock Lumber Co. (Hardwood Lumber & Veneers, Fancy Figured Quartered Oak a Specialty)

## IOWA.

BELLEVUE—*Bittner, Louis (Hardwood)
*Dorchester & Hughey (White Pine)
BOONE—Fehleisen-Rosacker Lumber Co.
BURLINGTON—*Burlington Lumber Co. (White Pine)
*Gilbert, Hedge Lumber Co.
*Nairne, Gillies Co. (Sash & Door Factory & Planing Mill)
Rand Lumber Co.
CEDAR FALLS—*Harris & Cole Bros. (Poplar & Oak Lumber, Wagon Box Material, Turned Wood & House Trimmings) Export Turned Work)
CEDAR RAPIDS—Cedar Rapids Lumber Co.
Fay Bros. & Co.
Limback & Jeffrey
Williams & Hunting Co. (Planing Mill)
CLINTON—§Curtis Bros. & Co. (Mill Work)
Ingwerson, Borbeck & Co.
Pickets, Flooring, Siding, Ceilings, etc.)
Peterson, Bell & Co. (Box Shooks & Crates, etc.)
CORYDON—Corydon Lumber Co.
COUNCIL BLUFFS—§Bluff City Lumber & Coal Co.
Hafer, C. Lumber Co.
§Hoagland, Geo A.
§Quinn, H. A. Lumber Co.
DAVENPORT—Hayward, W. C.
Lindsay Land & Lumber Co.
Loguno (The) Co.
*McClelland, T. W. Co.
*Mueller Lumber Co. (Saw Mill)
*Roberts, U. N. Co.
Smith, J. J. Lumber Co.
*Weyerhaeuser & Denkmann
Woodruff-Kroy Co. (Slack Cooperage Stock, Butter Tub Stock, etc.)
DES MOINES—§Chicago Lumber & Coal Co., 1100 Walnut
Beaver Lumber Co.
Church, W. C. Lumber Co. (White Cedar, Poles & Posts, Ties, Poles & Posts, White Cedar Posts & Poles)
*Gilcrest, J. K. & W. H. Co., 4th & Vine
*Green Bay Lumber Co., Equitable bldg
Jewett Lumber Co., E 7th & Walnut
*Longshore, G. L. (Saw Mill), 8th nr Elm
§Oregon Lumber Co., 516 Clapp blk
*Queal, J. H. Co., 201 E Grand av
§Wheeler Lumber & Bridge Supply Co., 208 S 7th
*Wisconsin Lumber Co., Youngerman blk
DUBUQUE—*Carr, Ryder & Adams Co. (Sash, Doors, Blinds)
Day, W. H., Jr.
*Farley & Loetscher Mfg. Co. (Sash, Doors, Blinds)
*Metz Mfg. Co. (Sash, Doors, Blinds, etc.)
*Standard Lumber Co.
FORT DODGE—Chapin, L. E.
Conway, Owen & Sons
Mason & O'Connell
FORT MADISON—*Atlee, S. & J. C. (White Pine)
HAMBURG—Hydinger & James
HARLAN—Dow & Sandham
HAWARDEN—Schoeneman Bros. Co.
INDIANOLA—Harlan, J. M. Lumber Co.
KEOKUK—*Carter, S. O. & S. Co.
Schmidt, Henry & Sons Co.
*Taber Lumber Co.
LEHIGH—*Harrington, S. W.
MANCHESTER—*Wolcott Bros. (Lumber & Shingles)
MARSHALLTOWN—Buchwald, Chas. A. Lumber Co.
Kreutzer & Wasem (Planing Mill)
MISSOURI VALLEY—Deur, C. H.
MUSCATINE—*Muscatine Lumber & Box Co.
*Musser Lumber Co. (White Pine)
*South Muscatine Lumber Co. (Box Shooks)
OSKALOOSA—§Hawkeye Lumber Co
Kalbach Lumber Co.
Porter, C. M. Lumber Co.
OTTUMWA—Fletcher, H.
McGavic, S. L. Lumber Co.
REINBECK—Porter Lumber Co.
SIOUX CITY—Blenkiron Bros., Inc.
Ford & Hollandsworth Co.
*Fullerton Lumber Co.
Spalding, J. D.
WATERLOO—§Chapman, Chas. W. Lumber Co.
*Naumann Co.
Waterloo Lumber Co.
WOODLAND—*Jennings, W. H. & Bro.

## KANSAS.

ATCHISON—Brockett B. L.
*Carlisle, Pennell, Lumber Co.
Uhrich, O. W. Planing Mill Co.
CHANUTE—Chanute Lumber Co.
CLAY CENTER—Kreeck, L.
COFFEYVILLE—Lapsley Lumber Co.
Smith & Baty Lumber Co.
EMPORIA—*Kansas Wholesale Lumber Co.
Sprague, E. F. (Planing Mill)
HUTCHINSON—§Hutchinson Lumber & Planing Mill Co.
IOLA—Northrup Lumber Co.
KANSAS CITY—Ellis, John W. (Planing Mill)
LAWRENCE—Lewis, Luther N.
LEAVENWORTH—Garrett, S. C., Lumber Co.
Lambert Lumber Co.
NEWTON—Swartz, S. M., Lumber Co.
OLATHE—Hodges Bros.
PITTSBURG—*Pittsburg Planing Co.
Sandford-Robinson Lumber Co.
ROSSVILLE—*Thomas J. & Co.
TOPEKA—*Thomas-Huycke-Martin Co. (Saw Mill)
§Thomas, J. Lumber Co.

## KENTUCKY.

ANGLIN—Eastern Kentucky Lumber Co.
ARLINGTON—Arlington Heading & Lumber Co.
Stanley Lumber Co.
ASHLAND—*Ashland Lumber Co.
§Beckette Co. (Poplar & Oak)
§Dawkins, W. H. Lumber Co. (Wholesale Poplar & Oak)
*Herrmann H. Lumber Co.
*Standard Planing Mill & Bldg. Co.
*Strack, E. W. Lumber Co. (Oak, Poplar & Hickory Lumber & Mfrs. of Chair Stocks)
*Vansant, Kitchen & Co.
BARBOURSVILLE—*Rathfon, Scent & Co.
BARDWELL—*Bardwell Heading Co.
Dunbar Mill & Lumber Co. (Piling, Bridge Timbers, Switch Ties, Car Stock, etc.)
BENTON—Treas. R. G. Lumber Co.
BIG CREEK—Moffitt-Bowman Lumber Co.
BONNIEVILLE—Stamp, J. M. (Saw Mill)
BOONSBORO—Stevens, H. L. (Saw Mill)
BOWLING GREEN—Kister, F. L., Jr. (Saw & Planing Mill)
*Roemer Bros. (Planing Mill)
Russell, J. N. & K. M.

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BRADFORDSVILLE—Terhune's B. Sons (Saw Mill)
BURKESVILLE—Ritchey, J. H. (Saw Mill)
*Young Bros. (Lumber & Staves)
BURNSIDE—*Kentucky Lumber Co. (Lumber & (Saw Mill)
CADIZ—*Woodruff Planing Mill Co.
CAMPBELLSVILLE—*Campbellsville Lumber Co. (Hardwood)
CANEYVILLE—Bond, W. T. (Cross Ties &
CARROLLTON—*Adkinson Bros. Lumber)
CATLETTSBURG—*Nigh, S. H. & Bro.
CENTRAL CITY—*Central City Lumber & Central City Planing Mill Co. Mfg. Co.
Fortney, T. Q. (Planing Mill)
CLAY CITY—*Clay City Spoke Co.
*Swann-Day Lumber Co. (Hardwood)
COVINGTON—Covington Lumber Co. (Saw Mill, etc.)
*Hellmann Lumber & Mfg. Co. (Planing Mill, etc.)
DANVILLE—*Danville Lumber Co.
*Taylor, Mitchell (Staves)
ELIZABETHTOWN—Bond Bros. (R. R. Cross-ties)
FORD—*Burt & Brabb Lumber Co. (Hardwood)
*Ford Lumber & Mfg. Co. (Hardwood)
FRANKFORT—Belle Point Lumber Co.
Capital Lumber & Mfg. Co. (Planing Mill)
*Congleton, T. J. & Bro. (Saw Mill)
*Kenney, T. E. (Saw Mill)
*Kentucky River Poplar Co.
FROZEN CREEK—Day, Floyd (Staves & Ties)
GLASGOW—Davidson, L. T.
*New Glasgow Planing Mill Co. (Hardwood Lumber & Bevel Siding, Oak &
*Redman, Wm. (Staves) Beech Flooring)
Smith, J. N.
Spencer, Young & Co.
HENDERSON—*Clore, F. L. & Son (Saw Mill)
*Clore's, Joseph Son (Lumber, Saw & Henderson Lumber Co. Planing Mills)
*Rankin Lumber Co. (Saw Mill)
HENSHAW—Runyan, I. V. (Lumber, Shingles & Logs)
HIGHBRIDGE—Hughes, J. D. Lumber Co. (Saw & Planing Mill)
IRVINE—Snowden, A. D. & W. M. (Saw Mills)
JACKSON—*Day Bros. Co. (Hardwood)
KEAVY—Storm Bros. (Lumber, Staves & Ties)
Storm, John & Co. (Saw Mill)
KINGS CREEK—Field, A. J. & Son (Saw Mill)
KNOBLICK—Allen, O. C. (Saw Mill)
LEBANON—*Lebanon Lumber Co.
LEXINGTON—Curran, Wm. & Son
Hendricks Bros. & Co.
Lexington Lumber & Mfg. Co. (Saw Mill)
*Spotswood, E. R. & Son (Hardwood)
LIMABURG—Rouse, W. R. (Saw Mill)
LIVERMORE—Acker Lumber Co. (Saw & Planing Mill)
Hackett, E. B. & Son (Saw & Planing Mill)
*Quigg Mfg. Co. (Staves)
LIVINGSTON—Livingston Lumber Co.
LONDON—*London Mfg. Co. (Lumber)
§Murphy, D. B. & Co.
LOUISA — *Northrup, Jay H. (Ties, Lumber, Staves)
LOUISVILLE—*Bell & Coggeshall Co. (Planing Mill)
Blue Grass Lumber Co. (Hardwood), Paul Jones bldg
*§Brown, H. Van S. (Hardwood), 6th, bet.
§Casey, Jno. & Co., 231 3d Hill & A
*Central Planing Mill & Lumber Co.
§Chicago Lumber & Lumber Co., Columbia
§Comstock, L. H. & Bro. bldg
§Cunningham, Robert M.
*§Davis, E. L. Lumber Co. (Hardwood)
§Fullenlove H. S., Lexington cor. 14th
Gage, W. M., 735 W Green
§Gamble Bros. (Inc.) (Yellow Pine, Yellow Poplar, Hardwood), 445 W Main
§Gernert Bros. Lumber Co. (Saw Mill)
§Graham, S. P., 810 Magazine
*Hubbard Bros. (Staves & Headings for Whiskey, Wine & Beer Barrels)
*Hughes, E. L. Co. (Base & Casing Columns. Sashes, Doors, etc.)
*Hughes, W. J. & Sons Co. (Cedar Logs, Posts, etc.)
Kirwan Bros. (Saw Mill), Fulton & Adams
*Koehler, Hy. & Co. (Planing Mill, Hardwood, Yellow Pine, etc.), 12th & R'way
*Lortz & Frey Planing Mill Co. (Inc), 420 E Breckenridge
Louisville Point Lumber Co. (Saw Mill), 1000 Fulton
Mehler & Eckstenkemper Lumber Co. (Cedar), 1042 E Main
*Mengel, C. C. & Bro. Co. (Saw Mill, Mahogany, Hardwood & Box Shooks; also Exporters), G c 5th
§Moore, Hughes, Keller bldg
§Moody, G. E. & Co. (Ky. Planing Mill)
*Norman Lumber Co. (Saw Mill, Hardwood, Ash, Oak, Poplar, Walnut, etc.)
*Ohio River Saw Mill Co. (Saw Mill)
Parsons-Willis Lumber Co., Keller Bldg.
§Russell, Frank B. (Beer Staves)
Southern Lumber Co., Keller Bldg.
§Stotz Lumber Co. (Inc.) (Cypress, Oak, Poplar, White Pine, etc.)
MARCELLUS—Pointdexter, C. K. (Saw Mill)
MARYDELL—Gregory, N. M. (Saw Mill)
MONICA—Hieronymus, G. D. & Bro. (Saw Mill)
MONTICELLO — *Kentucky Hardwood Lumber Co. (Carriage & Wagon Material)
MOREHEAD—*Bradley, S. M. (Mfr. & W. Lumber, Staves, etc.)
MURRAY—*Hay, Jas. P., Lumber Co.
NEW HOPE—Hall, B. S. (Saw Mill)
NEWPORT—Voss, Frank (Lumber & Planing Mill)
Weingartner's, Jos. Sons (Lumber & Planing Mill)
OWENSBORO—Owensboro Planing Mill Co. (Hardwood)
PADUCAH—*Ferguson & Palmer Co. (Hardwood, Red & White Oak, Poplar, etc.)
Folks, Acree, Lumber Co.
*Langstaff-Orm Mfg. Co. (Saw & Planing Mill)
*Paducah Veneer & Lumber Co. (Saw & Planing Mill)
Sherrill, King, Mill & Lumber Co. (Saw
Sherrill, Russell, Lumber Co. Mill)
*§Smith, A. B. Lumber Co.
PANOLA—Madison-Jackson-Estill Lumber & Development Co. (Hardwood Lumber)
PINEVILLE—*Asher, A. J. (Saw Mill)
§Gibson, J. J. & Son
King, W. B. (Staves)
King & Brooking (Staves, etc.)
RINALDO—Mitchell, W. J. (Saw Mill)
SALT LICK—Fell, W. J. (S. Lumber, Staves)
Salt Lick Lumber Co. (Saw & Planing Mill)
SEBREE—Brown & Luck (Saw Mill)
SOMERSET—*Somerset Lumber & Mfg. Co.
TORRENT—*Day, J. Taylor (Saw Mill)
VALLEY VIEW—*Southern Lumber Co.
VINEGROVE—Vinegrove Lumber Co.
WALTON—*Mayhugh, J. D. Mfg. Co. (Lumber)
WARSAW—*McDanell's, J. H. Sons (Poplar, Oak & Interior Finish)
WASIOTO—*Asher, T. J. & Sons (Hardwood)
WINCHESTER—Daniel, J. M. (Saw Mill)
*Reliance Mfg. Co. (W. Lumber)
Scobee, R. P. & Sons
Winchester Lumber & Mfg. Co.

## LOUISIANA.

ABBEVILLE—Stebbins E. M. & Co. (Lumber)
ALBERTA — *Bienville Lumber Co. (Yellow Pine)
ALDEN BRIDGE—*Strayhan, J. F. (Saw
*Whited & Wheeless (Yellow Pine) Mill)
ALEXANDRIA—Enterprise Lumber Co.
Hayslip & Dean
International Lumber Co.
Union Lumber Co. (Brokers)
ALLEMANDS—Des Allemands Lumber Co., Ltd.
AMITE—*Hayden, J. Y. (Saw Mill)
ANGIE—Saxon, L. J. & Sons (Saw Mill)
ANSLEY—*Davis Bros. Lumber Co. (Ltd.), (Yellow Pine)
ANTRIM—*Antrim Lumber Co. (Yellow Pine Lumber)
ARCADIA—*Arcadia Lumber Co. (Ltd.)
ARNAUDVILLE—Greig, George & Co.
ATHENS—Pace & Gandy (Saw Mill & Lumber)
BALDWIN—Baldwin Lumber Co., Ltd.
BALL—*Ball, J. F. & Bro. Lumber Co. (Shingle & Saw Mill)
BARHAM—*Pickering, W. R. Lumber Co. (Yellow Pine)
BATON ROUGE—*Hopper, Samuel & Son (Saw Mill, Staves, etc.)
BAYOU CHICOT—Johnson, Louis (Saw Mill)
BAYOU SARA—Bayou Sara Lumber Co., Ltd.
BERNICE—Bernice Lumber Co., Ltd.
BLANCHARD—Dunn, L. M. (Saw Mill)
BOLEYN—*Caldwell-Norton Lumber Co. (Ltd.)
BOLINGER—*Bolinger, S. H. & Co. (Ltd.), (Yellow Pine)
BONAMI—*King-Ryder Lumber Co. (Yellow
BONITA—*Whittet-Culton Cypress Co. Pine)
BOUDREAUX—*Caillou Mfg. Co.
BOWIE—*Bowie Lumber Co. (Lumber & Shingle Mill)
BREAUX BRIDGE—Begnaud, Joseph W. (Lumber)
Breaux Bridge Lumber Co., Ltd.
BRODNAX—Overbey Saw & Planing Mill
BUNKIE—Haas, W. D. & Co. (Lumber & Saw
BROUSSARD—Billeaud Lumber Co. Mill)
BURTON—*Burton-Swartz Cypress Co.
CANTON—*Powell, D. C.
CHACAHOULA—*Goodland Cypress Co.
CLARKS—Louisiana Central Lumber Co.
COLDWATER—Louisiana Logging Co., Ltd.
COLFAX—*Big Pine Lumber Co., Ltd.
Iatt Lumber Co.
COTTON VALLEY—Porter-Wadley Lumber Co.
*Valley Stave Co.
COUSHATTA—Corley, W. C. (Saw Mill)
CROWLEY—Mermentau Shingle Co.
DE RIDDER—*Hudson River Lumber Co. (Yellow Pine)
DONNER—*Dilbert, Stark & Brown Cypress Co. (Cypress, Lumber, Lath & Shingles, Mouldings, Finish & Pickets, Hewn & Sawn Ties & R. R. Timbers, etc.)
DOSSMAN—Helmer & Dossman Co. (Saw
EOLA—*Hoshall & McDonald Bros. Mill)
FISHER—*Louisiana Long Leaf Lumber Co. (Yellow Pine)
FLORIEN—*Florien Lumber Co.
Williams Bros. Lumber Co.
FOREST HILL—Hurricane Creek Lumber Co.
Randolph & Drouet (Saw Mill)
FRANKLIN—*Kyle Lumber Co. (Ltd.)
GARDEN CITY—Hansen, Albert Lumber Co. (Saw Mill)
GARYVILLE—*Lyon Cypress Lumber Co. (Red Cypress)
GENESEE—Genesee Lumber Co.
GIBSON—*Gibson Cypress Lumber Co. (Lumber & Saw Mills)
HAMMOND—Arnold Land & Lumber Co. (Saw
Hammond Lumber Co., Ltd. Mill)
HARVEY—*Harvey Mfg. & Improvement Co. (Ltd.)
*Louisiana Cypress Lumber Co. (Red Cypress, Lumber & Shingles)
HAWTHORN—Hawthorn Lumber Co.
HAYNESVILLE—Hickman, S. J.
HEAD OF ISLAND—*Opdenweyer Cypress Lumber Co. (Ltd.)
HOUMA—*St. Louis Cypress Co. (Ltd.) (Lumber & Shingles)
INDEPENDENCE—Day, L. D. & Son (Saw Mill)
Independence Veneer & Box Mfg. Co.
JEANERETTE—*Jeanerette Lumber & Shingle Co. (Cypress)
*Planters' Lumber Co. (Ltd.), (Cypress, Lumber, etc.)
KENTWOOD—*Brooks-Scanlon Lumber Mfrs. (Long Leaf Yellow Pine, Band & Gauged Sawed, Planing Mill Work, etc.)
*Kent, Amos Lumber & Brick Co. (Yellow Pine)
LAFAYETTE—Vordenbaumen Lumber Co., (Ltd.)
LAKE ARTHUR—*Phoenix Lumber Co. (Cypress, Lumber & Shingles) (Ltd.)
LAKE CHARLES—*Bel, J. A. Lumber Co. Yellow Pine)
*Hodge Fence & Lumber Co. (Saw Mill, Lumber, Fencing & Yellow Pine)
*Powell Lumber Co. (Lumber, Yellow Pine
Stout, J. C. (Saw Mill) & Saw Mill)
White, Son & Castle (Saw Mill)
Wilcox, C. B. (Exporter)
LAKE PROVIDENCE—§Carroll Lumber Co. (Ltd.)
L'ARGENT—Rhoades, E. C. Lumber Co. (Lumber & Saw Mills)
LEES CREEK—Williams Bros. (Ltd.) (Saw Mill)
LEESVILLE—*Nona Mills Co. (Yellow Pine)
*Powell Bros. & Sanders Co., Ltd.
*Wingate, Thos. C. (Saw & Planing Mill)
LOGANSPORT—*Logansport Lumber Co.
LONG LEAF—*Crowell & Spencer Lumber Co. (Yellow Pine)
LORING—*Bowman, Hicks Lumber Co. (Yellow Pine)
LUDINGTON — *Ludington-Wells-Van Schaick
LUDIVINE—*Fair Cypress Co. Co.
LUTCHER—*Lutcher & Moore Cypress Lumber Co. (Red Cypress)
MADISONVILLE—Dendinger, Theo. (Saw Mill)
MARINGOUIN—*Wilson & Cochran
MINDEN—*Minden Lumber Co.
MONROE—*Herring A. M. (Saw Mill)
*Monroe Shingle Co. (Shingle Mill)
*North Louisiana Shingle Co. (Shingle Mill)
MONTROSE—*Star & Crescent Lumber Co. (Yellow Pine)
MORGAN CITY—*Brownell-Drews Lumber Co. (Cypress Lumber & Shingles)
*Cotten Cros. Cypress Co. (Lumber & Shingles)
MYRTISTOWN—*Black Bayou Lumber Co. (Yellow Pine)
NAPOLEONVILLE—*Napoleon Cypress Co. (Lumber & Shingles)
NATALBANY—*Natalbany Lumber Co. (Ltd.), (Yellow Pine)
NEW IBERIA—*Iberia Cypress Co. (Cypress Lumber & Saw Mill)
*Renoudet, P. L. Lumber Co. (Ltd.) (Saw Mill)
NEW ORLEANS—*§Berwick Lumber Co., 2333 Clio
*Carre, W. W. Co. (Yellow Pine Exporters), 331 Carondelet
§Central Mfg. & Lumber Co. (Ltd.), S Salcedo & Perdido
§Forcheimer, Hugo (Exporter, Logs, etc.), Hibernia Bank bldg

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Gomila-Demack Lumber Co. (Hardwood Exporters), Hibernia Building
§Knoop, Otto, 1217 Julia
*Lambou & Noel Lbr. & Mfg. Co., 4600 N Peters
Lewis, H. F. & Co., Ltd. (Cypress Lumber & Shingles), 316 Baronne
§Lhote Lbr Co., Carondelet Walk c N Dupre
*Moore, Lucas E. Stave Co. (White Oak Cooperage Stock & Hardwood Lumber, etc.)
§Opdenweyer Cypress Co. (Ltd.), S. Lopez, cor Perdido
*Otis Mfg. Co. (Mahogany), Peters av & River
§Poitevent & Favre Lbr. Co., L. L. & G. bldg
§Rees-Scott Co. (Ltd.) (Exporters, Staves, & Lumber), Denegre bldg
§Roberts & Co., 1419 Gravier
Robinson, C. W. Lumber Co. (Yellow Pine, Satin Walnut, etc.), 806 Gravier
*Ruddock Orleans Cypress Co. (Cypress Lumber), Carrollton av & New Basin
*Salmen Brick & Lumber Co. (Yellow Pine Cypress Lumber), 716 Common
*Schut & Kiehn (Hardwood Exporters), Hennen bldg
Sutherland, L. J. & Co. (Exporters Pitch, Pine, Timber, Staves), L. L. & G. Bldg
Thomas, G. H. A. Co., Poydras & S Broad
Union Lumber Co., Hibernia bldg

NEW ROADS—*Mix, Thos. (Lumber)
NOBLE—*Noble Lumber Co. (Yellow Pine)
OAKDALE—*Industrial Lumber Co. (Yellow Pine)
PATTERSON—*Riggs Cypress Co. (Ltd.) (Lumber & Planing Mill)
William F. B. Cypress Co.
PICKERING—*Pickering, W. R. Lumber Co. (Yellow Pine). (See Kansas City, Mo.)
PLAQUEMINE—*Plaquemine Stave & Heading Co.
*Schwing Lumber & Shingle Co. (Cypress)
*Wilbert, A. Sons Lumber & Shingle Co. (Red Cypress Lumber & Shingles)
PLATTENVILLE—*Baker-Wakefield Cypress Co. (Ltd.), (Saw Mill & Lumber)
PLEASANT HILL—*Pleasant Hill Lumber Co., Ltd.
RAMOS—*Ramos Lumber & Mfg. Co. (Red Cypress Lumber, Lath & Shingles)
RAMSAY—*Greenlaw Lbr. Co. (Yellow Pine)
RANDOLPH—Summit Lumber Co. (Yellow Pine)
RAPIDES—Morrow, C. A. & Son (Saw Mill)
ROW LANDING—*Hall-Coody Lumber Co. (Lumber & Staves)
RUSTON—*Adams, J. A. & Sons Co., Ltd. (Staves)
*Ruston Mfg. Co. (Planing Mill)
*Short Leaf Lumber Co., Ltd.
*Vienna Lumber Co.
ST. JAMES—*Rives, J. C. Cypress Co., Ltd.
ST. MARTINSVILLE—*Burdin, J. J. & Bro. (Lumber & Saw Mill)
SELMA—*Grant Land & Lumber Co. (Ltd.) (Yellow Pine)
SHREVEPORT—*Allen Mfg. Co. (Yellow Pine Lumber, Cypress Pickets, Mouldings, Red Cypress, Cisterns, etc.)
*Austro-American Stave & Lumber Mfg. Co. (Lumber & Staves, Mfrs. & Exporters)
*Black Lake Lumber Co.
*De Soto Land & Lumber Co.
§McCullough-Weaver Lumber Co. (Yellow Pine)
*Pelican Shingle Co.
*Perkins Lumber & Timber Co.
*Shreveport Lumber & Mfg. Co. (Hardwood)
Taylor Lumber Co. (Lumber & Boxes)
*Victoria Lumber Co. (Planing Mill, etc.)
*Werner, Louis Stave Co.
SPRINGFIELD—*Brakenridge Lumber Co., Ltd. (Saw Mill)
SPRINGHILL—*Pine Woods Lumber Co. (Lumber, Saw & Planing Mill)
STRADER—*Owl Bayou Cypress Co. (Lumber & Shingles)
SWARTZ—*Swartz, E. G. Co. Ltd. (Yellow Pine)
TANGIPOHOA—*Day Lumber Co. (Saw Mill)
TANNEHILL—*Hall & Legan Lumber Co., Ltd.
THAXTON—*Henderson-Bennett Lumber Co.
TREMONT — *Tremont Lumber Co. (Yellow Pine)
URANIA — Urania Lumber Co. (Ltd.) (Long Leaf Yellow Pine, R. R. Construction & Car Materials)
VINTON—Industrial Lumber Co. (Yellow Pine)
VIVIAN—*Thomason, W. J.
WASHINGTON—Gibbens, T. C. (Saw Mill)
*Thistlewaite Lumber Co. (Saw Mill)
WESTLAKE—*Krause-Managan Lumber Co.
*Locke, Moore & Co.
WEST MONROE—*Haynes Lumber Co. (Saw Mill)
*West Monroe Mfg. Co. (Sashes, Doors, etc.)
WHITECASTLE—Adams, G. G. (Saw Mill)
*Whitecastle Lumber & Shingle Co. (Red Cypress)
WINNFIELD—*Dalton-Clark Stave Co.
*Sulphur Timber & Lumber Co., Ltd. (Planing Mill)
*Tremont Lumber Co. (Yellow Pine)
WINNSBORO—Steele & Johnson (Saw Mill)
WINONA—*Pine Tree Lumber Co. (Yellow Pine)
WOODWORTH—*Rapides Lumber Co. (Yellow Pine)
WYATT—*Wyatt Lumber Co. (Yellow Pine)
YELLOW PINE—*Globe Lumber Co. (Yellow Pine)
ZIMMERMAN—*Bentley, J. A. Lumber Co. (Yellow Pine)
ZWOLLE—Sabine Lumber Co., Ltd. (L. L. Yellow Pine)

## MAINE.

ALBANY—*Brown, Jas. (Saw Mill)
ALEXANDER—*Dwelley, Jno. W. (Shingles)
ALFRED—*Jordan, B. C.
AMHERST—*Kenniston, J. S. & Sons (Shingles)
ANDOVER—*Poor, O. B. & E. S.
ARGYLE—*Smith, Sam'l
ARROWSIC—*Crosby, C. C. (Saw Mill)
ASHLAND—*Ashland Co.
AUBURN—*Hutchins, H. Wesley Co. (Basswood Veneer)
*Winter, Frank W.
AUGUSTA—*Augusta Lumber Co. (Pine & Spruce Lumber, Lath & Shingles)
*Lawrence, Newhall, Page & Co. (Lumber, Box Shooks, Birch Flooring & Mill W'k)
BANGOR—*American Realty Co.
*Ayer, F. W.
*Cassidy, John & Son
*Eastern Mfg. Co.
*Engel, Wm.
*Lowell & Engel
*Morse & Co. (Inc.)
*Rice & Kelley
*Walker, James & Co.
*Webber, C. F.
BAR MILLS—*McKenney, Chas. W.
BATH — *Passmore, H. T. & Co. (Lumber & Mill Work)
*Rogers Bros.
*Shaw, M. G. Lumber Co.
BINGHAM—*Lander & Ayer
BRIDGTON—*Newcomb, Geo. W.
CALAIS—Eaton, H. F. & Sons
*Murchie, Jas. & Sons
CASCO—*Hancock, S. O.
ELLSWORTH FALLS—*Treworgy, Chas. J. (Stave Headings, Shingles & Box Shooks)
*Whitcomb, Haynes & Co. (Spruce & Hemlock Lumber, Lath & Shingles)
FRANKLIN—*Macomber Bros.
GARDINER—*Gray, Joshua & Sons (Lumber, Shingles & Lath)
*Oakland Mfg. Co. (Southern Lumber)
ISLAND FALLS—*Mattawamkeag Lumber Co.
LEWISTON—*Cloutier & Irish Lumber Co.
§Pingree, Sam'l R. B.
LIMESTONE—*Noyes, A. L.
MACHIAS—*Machias Mfg. Co. (Lumber, etc.)
*White, Everett I.
MARS HILL—*York Bros.
NEW GLOUCESTER—Chandler Bros.
*Sturgis & Haskell
NEW VINEYARD—*Hillman, G. R.
OLD TOWN—*Jordan Lumber Co. (Box Shooks & Lumber)
*Wing & Engle Co. (House Finish, Box Shooks, etc.)

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

PORTLAND—*Allen, Wm. A. (Wood Mantels, Tiling of all Kinds, Posts, Rails, Columns, etc., House & Church Finish), 125 Somerset
*Berlin Mills Co. (Spruce Lumber, Clapboards, Shingles, Lath, Pickets, Dimension Boards, etc.), 404 Commercial
Hamlin, J. H. & Son (Lumber & Box Shooks)
*McDonald Mfg. Co., 54 York
*Richardson, Dana & Co. (So. Pine, Cypress & Hardwood), 331 Commercial
*Riggs, W. W. & Co., 364 Commercial
*Rummery, Jerome & Co., 91 Kenebec
PRESQUE ISLE—*Phair, Thos. H.
RUMFORD FALLS—*Dunton Lumber Co. (Saw Mill)
SHAWMUT—*Shawmut Mfg. Co. (Lumber & Pulp)
SHIRLEY MILLS—*Shirley Lumber Co.
SOUTH BREWER—*Sargent Lumber Co.
SOUTH GARDINER—*Lawrence Bros. Co.
*South Gardiner Lumber Co.
SOUTH JEFFERSON—*Trask Bros.
STRONG—*Warren, Hugh M.
VAN BUREN—*Grand Isle Lumber Co.

## MARYLAND.

BALTIMORE—§Alcock, John L. & Co. (Exporters of Hickory, Oak, Poplar & Walnut), 1 S Gay
§American Lumber Co. (Lumber & Shingles), 1407 Philpot
§Asendorf, J. H. & Co. (Ga., N. C. & Va. Yellow Pine), Stewart bldg
Baer, R. P. & Co. (Hardwood), Keyser bldg
§Burgan, Wm. M. (N. C. Pine & Cypress), Continental Trust bldg
§Canton Lumber Co. (Kiln Dried N. C. Pine, Ga. & Va. Sizes), Boston c Chesapeake
§Carter, David T. & Co. (Hardwood Mfrs.) Calvert bldg
§Charshee, Thos. A. & Bro. (Ties, Poles, etc.), 713 Caroline
§Culpepper & Co. (Pine & White Oak & Piles, Poles, Ties, Lumber & Timber), 8 Light
§Dill, Harry H. (Hardwood), Equitable bldg
§Dill, Lewis & Co. (Long & Short Leaf Yellow Pine), Keyser bldg
§Edwards', B. W. Sons (Short & Long Leaf Yellow Pine), 15 S Gay
Georgia Pine Co. (Cedar & Pine), Continental bldg
§Gilbert, J. L. & Bro., c E Falls & Eastern av
Grube, Herman L. (Hardwood Lumber Piling, Posts, Ties, Poles, etc.), Amer bldg
*Grube, H. S. (Ties, Poles & Posts), Baltimore & South
§Heise & Bruns Mill & Lumber Co., 600 S Caroline
§Horstmeier Lumber Co. (N. C. Pine), 305 E Falls av
§Hoskins, J. S. Lumber Co. (Pine & Hardwood Lumber, Ties, Piling, Poles, Posts, Spars, Masts, Ship & Decking Timbers, Oregon Pine Bill Stuff, etc.)
*Independent Lumber & Mill Co., Friendship av nr York rd
Isaac, Turner W. & Co. (Yellow Pine, Poplar, Cypress & Hardwoods)
Jackson, E. E. Lumber Co. (Long Leaf Yellow Pine), Law bldg
*James, N. W. & Co., Union Trust bldg
Johnson, Greenleaf & Son (Rough N. C. Pine & Hardwoods), Marine Bank bldg
Lafayette Mill & Lumber Co., 2100 W Lafayette av
*McLean, Robt. (Oak & Poplar for Export, etc.)
§Matthews, Thos. & Son (Timber, Yellow, White & Oregon Pine, Cypress, Oak & California Redwood), Canton av & Albermarle
Merryman, Ridgeway (Vr. & N. C. White Pine & Cypress), Marine Bank bldg
*Morgan Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.: Shingles, White Cedar, Red Cedar & Pine), Union Trust bldg
§Munroe & Co. (Poplar, Hardwoods & White Pine), Keyser bldg
§Natwick, J. & Co. (Hardwoods), Md. Trust bldg
*Norva Land & Lumber Co. (White Gum, Poplar, Pine & Cypress)
§Price, E. E. (Hardwood, Poplar & Logs, also Exporting Mfrs.), Continental bldg
§Price & Heald (Hardwood), Knickerbocker bldg

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§Rowe, W. Lewis & Co., East Falls & Canton av
§Ryland & Brooks Lumber Co. (N. C. & Ga. Pine & Hardwood) American bldg
*Shryock, Thos. J. & Co. (Pine, Hardwood, etc.), Shryock's Wharf
*Sloan, Geo. F. & Bro. (N. C. Pine & Flooring Mouldings, etc.), 414 Light St. Wharf
§Stran, Chas. T. Co., 740 Eastern av
*Surry Lumber Co., Union Trust bldg
§Waggner, Lewis & Co. (Long & Short Leaf Yellow Pine), 17 S Gay
*Walker & Myers (Shingles & Laths), 11 S Gay
§Waltz-Burgan Lumber Co. (S. C. & N. C. Pine, Cypress Shingles, etc.), Stewart bldg
§Waters, Geo. E. Co., 922 Park av
§Whitmer, Wm. & Sons, Inc., 9 E Lexington
§Wiley-Homer Lumber Co. (Southern Lumber), Franklin bldg
§Womble, Pembroke M. (Cedar, Pine, etc.), 2901 Elliott
*Wood, Robt. E. Lumber Co. (Hardwood), Continental Trust bldg

BEL AIR—*De Ran Lumber Co.
BERWYN—*Bewley Bros. (Saw Mill)
BETHLEHEM—*Messick, A. J. (Saw Mill)
BRANDYWINE—*Robinson, Aquila T. (Lumber & Ties)
CAMBRIDGE—*Cambridge Mfg. Co. (Lumber, Barrels, etc.)
*Wright, R. T. (Saw Mill)
CUMBERLAND—*Mertens' Sons, Fredk. (Lumber, Building Materials, etc.)
*Smouse, Thos. F. (White Oak, Car, Lumber)
*Union Lumber Mfg. Co.
SALISBURY—Adkins, E. S. & Co., Inc. (Lumber, Flooring, Box Shooks, etc.)
Day, Wm. M. (Saw Mill)
*Downing, Wm. J. Lumber Co.
*Jackson Bros. Co.
*Miller, W. B. & Co. (Lumber & Saw Mill)
*Perry, Thos. & Bro. (Box Lumber)
*Tilghman, Wm. B. Co. (Shingles, etc.)
Williams, C. E. & Co. (Saw Mill)
*Williams, L. E. & Co.

## MASSACHUSETTS.

BOSTON—§Arend, Frank A. & Co. (All Kinds), 390 Albany
*Atlantic Lumber Co. (Hardwoods, Whitewood, N. C. Pine), 70 Kilby
§Barker, Wm. G., 10 Central
§Barker & Co. (Inc.) (Pine, Spruce, Cypress, Whitewood), 53 State
§Bearse, O. & Son Co. (Mahogany & Hardwood), 33 Broad
§Bickford, H. M. Co. (Poplar, Hardwood & N. C. Pine), 70 Kilby
*Blacker & Shepard Co., 350 Albany
§Blanchard Lumber Co., 126 State
*Booth, J. R. (Lumber, House Finish & Packing Boxes), 88 Broad
§Boston Lumber Co. (Pine & Hardwood), 79 Milk
§Boston Oak Pile Co., 27 Kilby
§BOSTON-OREGON MAST CO. (Pacific Coast Lumber Products, Decking Lumber, Red Cedar, Shingles, Masts, Spars & Piling), 131 Coleridge, E B. (See adv. index, end of book)
§Buzzell, E. H., 71 Kilby
§Chester, W. R. & Co., 17 Doane
§Clapp, Alfred, 92 State
*Clark & Smith (Mahogany & Veneers), 231 Medford, Charleston
§Connecticut Valley Lumber Co. (Spruce, Pine, Hemlock & Hardwoods), 89 State
§Curtis, Wm. Sons Co., 30 Eustis
§Curtis & Pope Lumber Co., 774 Albany
Cypress Lumber Co. (Band Sawed Gulf Cypress, Long Leaf Yellow Pine, Poplar & Cottonwood, etc.), 88 Broad
§Davenport, Peters Co., 70 Kilby
§Furber, Stockford & Co., 11 Doane
§Godfrey, L. N. Co. (Pine, Poplar & Maple & Oak Flooring), 19 Exchange pl
§Goldsmith, F. L. (Mahogany & Cabinet Wood), 19 Chardon
§Hall Lumber Co. (Northern, Eastern & Southern Lumber), 33 Broad
§Hammond, Edw. J. Co. (Hard & Soft Wood), 79 Milk
§Haskins, Wm. & Son, 110 State
*Huckins, P. S. & Co. (Georgia Yellow Pine), 45 Kilby
§Hurd, Jos. A. Lumber Co. (Pine, Hardwood Lumber, Cedar Shingles, Dock Timber, etc.), 53 State
§James, E. B. Lumber Co., 16 Centre
§James & Abbott Co., 425 Medford, Chsn.
§Johnson, L. S. & Co. (Mahogany & Cabinet Wood), 414 Albany
§Jones Hardwood Co. (Hardwoods, Cypress, & Yellow Pine Flooring), 33 Broad
§Lawrence & Wiggin (Ind. & Southern Hardwood & Imp. of Mexican Mahogany), 281 Medford, Chsn.
§Litchfield, Wm. E. (Hardwood), 70 Kilby
§McQuesten, Geo. Co., 27 Kilby
*Macauley, Geo. W. (Builders' Finish), 385
§Noyes, Walter D., 33 Broad Albany
§Palmer, Parker & Co. (Mahogany, Hardwood Lumber & Veneers), 103 Medford, Chsn
§Parker & Page Co. (N. C. Pine, Cypress & Hardwood), 32 Lancaster
§Pratt & Co., 50 Congress
*Richardson, A. H., Jr. (Spruce, Hemlock & Pine), 170 Summer
§Shepard & Morse Lumber Co. (Cypress & Hardwood), 70 Kilby
*Skillings, Whitneys & Barnes Lumber Co., 45 Kilby
*STEARNS, A. T. LUMBER CO. (Cypress, Yellow Pine, Ash & Other Wood, Doors, Sash, Blinds, Building Trim, Cabinet Work, Flooring, Shingles, Tanks, etc.), Neponset. (See adv. index, end of book)
§Stebbins, H. B. Lumber Co., 70 Kilby
§Stetson, Cutler & Co., 70 Kilby
§Stone Lumber Co., 4 Liberty sq
Weston, W. M. & Co. (Hardwood), 120 Milk
§Wiggin, H. D. (Hardwood), 89 State
§Wood, Jas. A., 54 Kilby
§Wood-Barker Co. (Poplar, Cypress & Southern Pine), 53 State
CAMBRIDGE—Wood, Wm. H. & Co., 18 B'way
§Woods, W. H. & Co. (Hardwood), 223 Bridge, E. C.
CHELSEA—*Emery, Geo. D. (Imported & Domestic Cabinet Wood & Veneers)
FALL RIVER—*Blossom, Abram S. (Hardwood, Pine, etc.), 29 Jesse
*Erickson, G. & Bro. (Saw & Planing Mill), Blossom's av
*Prosser, Wm. & Sons, 943 Pleasant
FITCHBURG—*Eaton, Perley R. (Pine, Spruce & Northern Hardwoods)
§Garno, W. A. Co. (Pine & Hardwood Lumber, Box Shooks, Builders' Finish, etc.)
§Priest, C. A. Lumber Co. (Laths, Clapboards, Shingles, Lumber, etc.)
HOLYOKE—*Connecticut Valley Lumber Co. (Spruce, Lumber, Lath & Shingles)
LAWRENCE—*Lawrence Lumber Co. (Lumber & Mfr. Boxes)
*Pingree, D. W. & Co. (Lumber & Mfr. Boxes)
LOWELL—*Allen, Otis & Son (Lumber, Mouldings & Boxes)
Burnham & Davis (Shingles, Clapboards, etc.), 154 Western av
*Cady, Geo. L. & Sons (Lumber, Packing Boxes, Box Shooks, etc.)
*Cheney, Frank P. (Boxes, Box Shooks, Cloth Boards & Dealer in all kinds of Lumber
*Davis & Sargent Lumber Co. (Lumber, Packing Boxes, Planing Mill, etc.)
*Pratt, Amasa Co. (Veneered Doors, etc.), 766 Dutton
MARBLEHEAD—Bowden, Thos. J. & Son (Saw Mill)
MILLBURY—Rice, A. W. & A. J. (Saw Mill)
MONSON—Squier & Co.
NORTH ADAMS—Dibble, S. B. Lumber Co.
NORTH READING—*Upton, Henry A. (Saw Mill)
PITTSFIELD—§Berkshire Lumber Co.
PRINCETON—*Bigelow, J. Elbert (Lumber & Saw Mill)
SPRINGFIELD—*Angers Bros. (Shingles)
Bartholomew, C. A. (Saw Mill)
§Blodgett, Edwin A.
§Currier, R. B. (Southern & Michigan Pine & New York Spruce; Also Pine & Cedar Shingles)
§Dutton, A. C. Lumber Co. (Pine, Spruce, & Pacific Coast Products)
*Fenderson, John & Co. (Inc.)
§Morse, Fred. S. Lumber Co.
§Rice & Lockwood Lumber Co. (Pine, Hardwood & Shingles)
§United Lumber Co. (Eastern White Pine & North Carolina Pine)
TOWNSEND—Adams, U. S. & Co. (Saw Mill, Cooperage)
Fessenden, B. & A. D. (Saw Mill, Cooperage, Lumber)
TYNGSBORO—*Flint, A. A. (Saw Mill. Mfr. Boxes)
Sherburne, W. A. (Saw Mill)
WALPOLE—Morse, H. A. & Co. (Saw Mill)
WARWICK—Williams, C. A. (Saw Mill )
WESTBORO—*Bartlett Box & Lumber Co. (Saw Mill)
WEST BRIDGEWATER—*Lyon, A. S. (Saw Mill)
WEST STERLING—Buck, T. & E. R. (Chair Mfr. & Saw Mill)
WEST TOWNSEND—Stickney, Clarence (Saw Mill, Cooperage, Lumber)
Thompson, Jos. F. (Saw Mill, Cooperage Lumber)
WORCESTER—*Cooperative Builders Finish Co. (Doors, Sash, Blinds, etc.)
§Hackwell, E. A. & Co. (Southern Pine, Canada, Western & Northern Lumber)
§Stone & Foster Lumber Co. (Northern, Western & Southern Lumber)

## MICHIGAN.

ALANSON—Markham, M. S. (Shingles & R. R. Ties)
ALPENA—*Churchill Lumber Co. (Lumber & Saw Mill)
*Eales Bros. & Co. (Shingles & Ties)


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FOR INTERIOR AND EXTERIOR CONSTRUCTION AND FINISH.

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Florida Gulf Cypress & Georgia Long Leaf Pine.

THE A. T. STEARNS LUMBER CO.

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*Fletcher, Geo. N. & Sons (Lumber & Saw Mill)
*Gilchrist, F. W. (Pine, Maple Flooring, Red Cedar Shingles, etc.)
*Holmes & Nicholson (Lumber, Cedar & Hemlock Bark)
*Masters, Geo. & Co. (Shingle Mill)
Michigan Veneer Co.
Northern Planing Mill Co. (Lumber)
*Richardson Lumber Co. (Lumber & Saw Mill)

ANN ARBOR—*Luick Bros. & Co. (Lumber & Interior Finish)

ARCADIA—Stark, Hy. Land & Lumber Co. (Saw Mill)

ASHLEY—Chittenden, C. E. & Co. (Hardwood, Staves & Headings)

AU SABLE—*Louds, H. M. Sons Co. (Pine & Cedar Poles)

BANNISTER—Letts, R. G. (Saw & Planing Mill)

BAY CITY—Bay City Box & Lumber Co.
§Black, Robert & Co. (Pine & Hardwood)
*Bradley, Miller & Co., Inc. (Lumber, Shingles, Lath & Box Shooks)
*Campbell-Brown Lumber Co. (Hardwood, Saw Mill)
*Eddy Bros. & Co. (White Pine & Mill Work)
*Foss, E. B. & Co. (White Pine Lumber, Laths & Shingles)
*Godkin, John (Saw Mill)
*Goldie Mfg. Co. (Cooperage Stock)
*Handy Bros. (Box Shooks)
Hanson-Ward Veneer Co.
*Hope Lumber Co. (Timber & Lumber)
Kerr & Newcomb (Hardwood)
*Kneeland, Bigelow Co. (Saw Mill & Hard Wood)
*Lamont, Matthew (Planing Mill, Lumber, Sash, Doors, etc.)
*Lewis Mfg. Co. (Sash, Doors, Lumber)
*Mengell & Co. (Pine & Box Shooks)
*Mershon-Bacon Co. (Lumber & Box Shooks)
*Michigan Cedar Co. (Poles & Ties)
*Nickless, W. H. (Box Shooks & Crates, Flooring & Car Planing)
Vance, E. J. Box Co. (Box Shooks)
Wentworth, J. & G. K. (Logs & Lumber)
*Woodworth, F. T. & Co., S Water
*Young, W. D. & Co. (Hardwood Lumber & Flooring)

BELLAIRE—*Hosmer, W. A.
Potter, C. C. & Co. (Saw Mill)
Reilly, Wm. & Sons

BENTON HARBOR—*Preston, W. A. (Lumber & Interior Finish)
*Preston, W. A. (Lumber & Interior Finish)

BIG RAPIDS—*Hood & Wright (Veneer & Panels)
*Ward Bros. (Bicycle Woods & Lumber)

BOYNE—*Boyne City Lumber Co.
*Von Platen, Geo. (Lumber & Saw Mill)
*White Veneer Co. (Hardwood Veneer & Trunk Slats)
*White, W. H. Co. (Hemlock, Maple, Soft & Rock Elm, Basswood, Beech, Cedar, Shingles, Tan Bark, etc.)

CADILLAC—Anderson, A. F. (Lumber & Saw Mill)
*Cadillac Veneer Co.
Cobbs & Mitchell (Maple Flooring, etc.)
*Cummer, Diggins & Co. (Hemlock & Maple Flooring)
*Goldie, Jno. S. (Hardwood & Hemlock)
*Mitchell Bros. Co. (Maple, Red Oak, Beech Flooring, Basswood Bevel Siding, Mich. Hardwood, Hemlock Lumber & Lath)
*Murphy & Diggins (Hardwood, etc.)

CALUMET—*Armstrong-Thielman Lumber Co. (Lumber, Lath, Shingles, Mouldings, etc.)

CARO—Heartt, Wm. A.

CEDAR—*Culver, M. A. & Son (Planing Mill)
*Sullivan, Jerry (Shingles)

CEDAR RIVER—*Crawford Samuel & Sons (Lumber)

CENTRAL LAKE—Central Lake Lumber Co. (Staves, etc.)

CHARLEVOIX—Charlevoix Lumber Co. (Hardwood, Hemlock & Pine)

CHARLOTTE—Huber, E. S. (Saw Mill)

CHEBOYGAN—§Embury, S. Harris
§Embury-Martin Lumber Co.
Lombard & Rittenhouse (Cedar Ties, Poles & Lumber)
*Nelson Lumber Co. (Lumber & Saw Mill)
Olds, M. D. (Lumber, Lath & Staves)
*Quay & Sons (Shingles & Hardwood Lumber)

COLEMAN—*Curtice, J. E. (Cooperage)

CONWAY—*McFarlane Bros. (Saw Mill)

DAGGETT—*Kesler, J. (Lumber & Cedar)
Perrizo & Sons (Cedar)
Weng, L. E. & Son (Cedar)

DETROIT—*Alger, Smith & Co. (Long Pine Timber), Union Trust bldg
§Anketell Lumber Co., Majestic bldg
‡Beyster, John (Lumber, Planing Mill & Box Factory), 875 Fort, W
*Brownlee & Co. (Lumber & Telegraph Poles), Telegraph bldg
§Danaher & Melendy Co., Hammond bldg
*Detroit Cedar & Lumber Co.), (Ties, Poles Lumber), Chamber of Com.
*Detroit Lumber Co. (Lumber & Saw Mill), 1311 Gratiot av
*Dwight Lumber Co. (Maple & Oak Flooring & Cigar Box Lumber, etc.), Rouge River & M. C. R. R.
*Forman, Thos. Co. (Maple & Oak Flooring, Bore & End Matched)
*Grace Harbor Lumber Co. (Hardwood, White Pine, Norway, Hemlock, etc.), 1389 River
*Harding, H. W. Lumber Co. (Pine & Hardwoods), 800 Scotten av
Hornung, J. T., Chamber of Commerce
§Hunton & Weeks bldg
Myles, 260 Franklin
§Kotcher, C. W., 649 Gratiot av
Lake Superior Iron & Chemical Co. (Hardwood & Hemlock, also Saw Mill)
§Leech, E. W. (Hardwood), 15th & War-
*McArthur Bros. Co., Brady blk ren
*McClure Lumber Co. (Hardwood, etc.), 520 Franklin
*Manistique Lumbering Co., Union Trust bldg
§Morley, Geo. & Co., 520 Atwater, E.
§Moyer, W. & Co., Majestic bldg
*National Mfg. Co. (Slack Cooperage Stock for Flour, Cement, Lime & Sugar Barrels), Penobscott bldg
*Nester, Thos. (Est. of), (Mills, Pine Lands, Lumber), Majestic bldg
*Ouellette, Thos., Lumber Co. (Hardwood), Home Bank bldg
*Restick, C. W. Lumber Co. (Lumber & Planing Mill), 992 Vinewood av
§Ross, Fred C., Cham. of Com. bldg
*Sibley, F. M. Lumber Co., Kercheval av & M. C. R. R. Belt Line
§Sicklesteel Lumber Co. (Hardwoods), Amsterdam & 3d av
*Stephens, Henry & Co. (White Pine & Hardwood), Gas Office bldg
*Theisen, Michael J. (Saw Mill & Hardwood Lumber), 994 Scotten av
Weber, J. F. & Co. (Lumber & Planing Mill), 304 Gratiot av

DICKINSON—*Squier, F. W. (Saw & Shingle Mill)

DOLLARVILLE—*Danaher Hardwood Lumber Co.

DOWAGIAC—§Judd, Mark & Son
§Lindsley, J. A. & Co.

EAST JORDAN—*Black Land & Lumber Co. (Lath), Lumber, Ties, etc.)
East Jordan Lumber Co. (Lumber, Saw, Shingle & Planing Mills)

EASTLAKE—*Peters, R. G. Salt & Lumber

EDMORE—*Pfeiffer & Burch (Shingles) Co.

ESCANABA—*Erickson & Bissell (Piling, Ties
Perron, M. (W. Cedar) & Posts)

ESSEXVILLE—Courval & Co. (Shingles)

FERRY—Powers & Critchett (Lumber & Lath)

FLAT ROCK—Metler, C. L. & Co. (Saw Mill)

FLINT—*Flint Lumber Co. (Planing Mill)
*Hearsch & Atwood (Planing Mill)

FOSTED CITY—*Morgan Lumber & Cedar Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc,; Shingles, White Cedar, Red Cedar & Pine)

FRANKENMUTH—Veitengruber Bros. (Saw &

FRANKFORT—*Bellows Bros. Planing Mill)
Perue, J. H. (Lumber, Bark, etc.)

FREEPORT—*Fox, W. & Co. (Saw & Planing Mills & Lumber)

GAGETOWN—Quinn & Fahrenkopf (Saw Mill)

GARTH—*Garth Lumber & Shingle Co.

GAYLORD—Humphreys Bros. (Planing & Saw Mills)

GLADSTONE—*Northwestern Cooperage & Lumber Co.

GLADWIN—Bliss, Chas. S. (Saw Mill & Lumber)

GLENWOOD—Hampton Stock Farm Co. (Saw Mill & Mfr. Staves & Headings)

GOBLEVILLE—*Clement, J. L. & Sons (Saw & Planing Mill)

GRAND HAVEN—*Millman, H. G. & Co. (Veneer Doors)

GRAND MARAIS—*Cook, Curtis & Miller (Inc.) (Staves & Headings)
*Marais Lumber Co.
*Schneider, Rudolph E. (Shingles)
*Stone, Chas. E. (Lumber & Shingles)

GRAND RAPIDS—*§Angell, H. C. Co. (Lumber & Shingles)
Bacon, C. S. Co. (Lumber, Lath & Shingle), Michigan Trust bldg
*Dennis Bros. (Hardwoods & Maple & Birch Flooring), Michigan Trust Co.
Dupree, John & Co., 329 Taylor bldg
Engel Land & Lumber Co., Houseman blk
Evans & Retting Lumber Co., Michigan Trust bldg
*Fuller & Rice Lumber & Mfg. Co. (White Pine, Hemlock, Hardwood, etc.)
Hackley-Phelps-Bonnell Co. (Bark & Hardwoods), Michigan Trust bldg
*Follmer, C. C. & Co. (Lumber & Shingles)
*Hughart, W. O., Jr. (Hardwood), Michigan Trust Co. bldg
*Hughart & Kendall (W. Hardwoods), Michigan Trust Co. bldg
Letellier, F. & Co. (Planing Mill, etc.), 222
Mercer & Ferdon Lumber Co. Canal
*Michigan Barrel Co. (Barrels, Boxes, Bent-
§Michigan Maple Co. (Hardwoods) wood)
Spear, C. A. & Son (Lumber, Planing mill)
Stearns Co., The (W. Lumber)
Stiles Bros., 1st av & M. C. R. R.
Van der Berg & Van der Veen Co., 149 Crosby
*Van Keulen & Wilkinson Lumber Co. (Hardwoods), Crating Stock, etc.
*Wagner, G. N. Shingle Co. (Pine & Red Cedar Shingles & Pine & Hemlock Lumber), Michigan Trust Co. bldg
§White & Friant Lumber Co., Michigan Trust bldg
*Winchester & Daniels (Pine & Cedar Shingles)
§Zipp Bros. (Hardwood), Houseman blk

GRAYLING—*Kerry & Hanson Flooring Co.
*Sailing, Hanson & Co. (White Cork & Norway Pine)

GREENVILLE—*Foster, Jno. J. Lumber Co.

HARBOR SPRINGS—*Harbor Springs Lumber Co.

HARDWOOD—Anderson, P. J. (Cedar Timber)

HARRIETTE—Fellers Bros. (Saw Mill Staves,

HART—*Bennett Lumber Mfg. Co. etc.)
Hart Cedar & Lumber Co.

HARTFORD—Walker, L. P. (Saw Mill & Hoop Mill)

HASTINGS—*Harper, J. S. & Co. (Lumber & Lombard & Alden (Hardwood) Shingles)

HERMANSVILLE—*Wisconsin Land & Lumber Co. (Hemlock & White Pine Lumber, White Cedar Shingles, Basswood Ceiling, Siding, Mouldings, Hardwood Flooring, etc.)

HOLLAND—*Kleyn Lumber Co. (Lumber, Lath,
*Scott, Luggers Lumber Co. Shingles)

HOLLY—*Michigan Mfg. & Lumber Co.

INGALLS—*Carley, Ira (White Cedar Posts, Dobeas, Louis (Cedar) Poles & Shingles)

IRONWOOD—*England, Harvey (Saw Mills)
*Scott & Howe Lumber Co.

KALKASKA—*Bockes, Mahan & Co. (Lumber & Shingles)

KENTON—*Sparrow-Kroll Lumber Co.

KINGSLEY—*Case & Crotser
*Dunn, Wesley

LAKE ANN—*Habbeler, Wm. Co. (Lumber, Cooperage, etc.)

LAKE CITY—*Ardis, S. B. Land & Lumber Co. (Saw & Shingle Mill)

LAKEVIEW—*Macomber & Bale (Lath & Shingles)

LAPEER—*King, Rob't Lumber Co. (Lumber, Lath & Shingles)

LEWISTON—*Michigan & Hanson Lumber Co.

LUDINGTON—*Butters Salt & Lumber Co.
Cartier Lumber Co.
*Rath, H. G. (Lumber & Shingles)
*Stearns, J. S. (Lumber, etc.)

LUPTON—*Bates, W. A. (Saw & Planing Mill)

MANISTEE—*Buckley & Douglass Lumber Co. (Timber, Lath & Shingles)
*Filer, D. L. & Sons (Saw Mill, Lumber)
*Sands, Louis Lumber Co. (Pine, also Lath & Shingles)
*State Lumber Co. (Lumber & Shingles)

MANISTIQUE—*Chicago Lumbering Co.
*Weston Lumber Co. (Saw Mills & Lumber)

MANTON—*Clark, F. N. (Hemlock Bark & Timber)
*McAfee, A. & Co (Staves & Headings)
*Williams Bros. Co. (Lasts & Lumber)

MAPLE RAPIDS—*Jones, Jas. E. (Saw Mill & Oar Mfr.)

MARION—Wagner & Gilmore (Shingle)

MARQUETTE—*Marquette Box & Lumber Co.

MAYFIELD—*Gibbs, Mrs. J. L. (Saw & Shingle Mill)

MENDON—Austin Co., F. (Lumber & Planing Mill)

MENOMINEE—Crawford Mfg. Co. (Boxes)
*Dominion Lumber Co.
*Girard Lumber Co. (Pine, Hemlock, Hardwood & Cedar Lumber, Lath, Pickets & Piling)
*Huebel, C. J. Co. (Lumber, White Cedar Poles, Posts & Shingles)
Hemlock, Hardwood & Cedar Lumber, Lath & Shingles)
*Menominee River Shingle Co. (Cedar Shin-
*Menominee White Cedar Co. gles)
Peninsula Box & Lumber Co. (Box Shooks & Boxes)

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§Spies, August Lumber & Cedar Co. (Pine, Hemlock & Cedar Lumber, Lath & Shingles)
*Wells, John M. Lumber Co. (Pine, Hemlock, Hardwood & Cedar Lumber, Lath & Shingles)
*White Pine Lumber Co. (Canadian White Pine Lumber, Lath & Shingles)
§Wolverine Cedar & Lumber Co. (Cedar & Lumber)
MESICK—*Mesick Mfg. Co. (Headings, Lumber,
MIDDLETON—*Middleton Cooperage Co. etc.)
MIDLAND—*Brown, C. (Lbr. & Planing Mill)
MILLERSBURG—Hamilton, J. T. (Saw Mill)
Holihan, R. P. (Lumber, Logs & Cedar)
MONROE—§Sterling, W. C. & Son Co. (Hardwood & Hemlock)
MUNISING—*Great Lakes Veneer Co.
MUSKEGON—*Alberts, Frank & Sons (Mfrs. & Wholesalers of Lumber & Shingles)
*Gow & Campbell (Mfrs. & Wholesalers of Houseman, C. L. (Lumber, etc.) Lumber)
Hume-Bennett Lumber Co. (Saw Mill, Lumber)
*Jones, Wm. R. (Saw Mill Mfrs.; Custom Work Only)
*Thayer Lumber Co. (Saw Mills & Wholsale Lumber, Lath & Shingles)
NADEAU—*Nadeau Bros. (White Cedar & Hardwood)
NESSEN CITY—*Nessen City Mfg. Co. (Lumber, Staves, Lath, etc.)
NEWBERRY—Lake Superior Iron & Chemical Co. (See Detroit, Mich.)
NOLAN—Coan, Edward A.
NORTHPORT—Kehl Bros. (Wood, Bark, Ties)
*Northport Lumber Co. (Saw & Planing Mill)
OMER—Kent, Andrews (Logs & Lumber)
ONAWAY—*American Wood Rim Co.
Gardner & Peterman (Staves & Heading)
*Lobdell & Churchill Mfg. Co. (Hardwood Lumber, Shingles, Maple Flooring, Ties, Poles & Posts)
ONTONAGON—*McMillan, C. V. Co. (Lumber, Lath, Planing Mill)
*Ontonagon Lumber & Cedar Co.
*Ontonagon Stave & Veneer Co.
OSCODA—*Hull & Ely
PARK LAKE—*Du Roy Mfg. Co. (Lumber & Handles)
PELLSTON—*Bogardus Land & Lumber Co. (Shingle Mills & Lumber)
Neilson, N. C. (Shingle Mill)
*Pellston Planing Mill Co.
PENTOGA—*Hood, F. G. Co. (Staves, Heading Lumber & Shingles)
PENTWATER—*Sands & Maxwell Lumber Co.
PEQUAMING—*Hebard, Chas. & Sons (Inc) Saw & Shingle Mill)
PETOSKEY—*Cook, Curtis & Miller
*Ernest Lumber & Cedar Co.
*McManus, W. L. Lumber Co. (Hardwood & Merchant, F. D. (Saw Mill) Soft Lumber)
*Petoskey Block & Mfg. Co. (Lumber & Butchers' Blocks)
PHELPS—Peterson, N. P. & Co. (Saw Mill)
PONTIAC—*Amy Lumber Co. (Saw Mill & Lumber)
PORT HURON—§Haynes, F. J. & Co. (Lath, Shingles, Lumber, Posts, etc.)
RABER—*Mud Lake Lumber Co.
RAPID CITY—St. Louis Hoop & Stave Co. (Hoops & Staves)
RAPID RIVER—Madden, Jerry Shingle Co. (Shingles, etc.)
REED CITY—*Horner, Wm. (Hardwood Floor-
*Welsh Mfg. Co. (Flooring) ing)
RICHMOND—Weston, Geo. W. (Lumber, Planing Mill, Sash, Doors, Blinds)
ROBBINS—Jentz, Fred (Shingle Mill, Cedar, etc.)
ROSE CITY—*Prescott, Miller & Co (Saw Mill, Lumber)
Rose City Mfg. Co. (Cooperage Stock)
SAGINAW—§Batchelor Timber Co. (Saw Mill & Lumber)
Boman Lumber Co (Saw Mill & Lumber)
*Bliss & Van Auken (Maple Flooring)
*Booth & Boyd Lumber Co. (Lumber, Lath, Shingles & Mill Work)
Brewer, F. P. & W. A. (Timber, etc.)
*Briggs & Cooper Co. (Pine, Oak, Ash, Cedar Shingles, etc.)
Burrows & Rust (Lumber)
Cornwell, Lewis (Estate of) (Saw Mill, Lumber)
§Derry, Stephen F. (Hardwood, Car & Trade
*Eastman, S. L. Flooring Co. a Specialty)
§Eddy, C. K. & Sons (Inc.) (White Pine Lumber & Logs)
§Fleischman, John L. (Hardwoods)
§Fordney, J. W., Merril blk (Lumber & Logs)
*Furstenberg Bros. (Planing Mill, Lumber)
§Galloway-Pease Co.
*Gardner, Peterman & Co. (Cooperage Stock & Shingles)
*Germain, Edw. (Planing Mill, Lumber)
Germain & Boyd Lumber Co (Saw & Planing Mill)
§Hill, Arthur & Co. Ltd (Pine Lumber)
Hill-Drummond Lumber Co.
*Jackson, Wylie & Co. (Hoops & Staves)
Kuehl, Chas. W. (Tan Bark & Lumber)
Loveland & Stone (Saw Mill, Lumber)
§McCormick, E. W., (Hardwood & Lumber)
Markey, Wm. T (Hardwood, Lumber & Shingles)
*Mershon, Eddy, Parker Co. (Lumber, Box Shooks, Shingles & Mill Work)
Otter Creek Lumber Co. (Lumber & Saw Mill)
Phillips & Seeley (Lumber, Lath & Shingles)
Poles & Posts, Norway & Hemlock Lath, Spiral Timber, etc.)
Richardson, E. Co. (The) (Timber)
§Rupp, J. J. (Pine Logs & Lumber) Bearing-
*Saginaw Lumber & Salt Co. er bldg.
*White, A. C.
Wylie, J. T. & Co. (Slack Cooperage Stock for Flour, Sugar, Cement, etc.)
ST. IGNACE—*Jamieson, J. A. Lumber Co.
SCHOOLCRAFT—*Fellows, L. L. (Hardwood)
SEBEWAING—*Liken & Bach (Stable & Heading)
SHERMAN—Chadwick, Dan'l O. (Saw & Planing Mill)
SIDNAW—*Prickett, Walter S. (Timber, etc.)
STURGEON BAY—Klise, A. B. Lumber Co.
TALLMADGE—Root, W. S. & Son (Saw & Shingle Mill)
TANNER—Williamson & Good (Hardwood)
TEKONSHA—Randall, A. H. Saw Mill Co. (Saw Mill)
TEMPLE—*Temple Mfg. Co. (Tie & Staves)
THOMPSON—*North Shore Lumber Co.
*Thompson Lumber Co.
TORCH LAKE—*Cameron Lumber Co. (Lumber & Shingles)
TOWER—Finan & Finan (Shingles & Cedar)
TRAVERSE CITY—*Beitner, Wm. & Son
*Greilick, J. E. Co. (Lumber, Planing & Hull, Longnecker Co. (Lumber) Saw Mill)
*Ott, John F. Lumber Co., E. End Bay
Smith & Hull Co. (Timber, Logs, Bark & Wood)
*Williams, W. E. Co.
TURNER—Eymer, Myron H. (Saw Mill)
TWINING—*McCready, John (Saw Mill & Lum-
UNION CITY—Union City Lumber Co. ber)
VAN—*Van Every Bros. (Lumber, Ties, Posts)
VANDERBILT—Olds & Hixson (Stave Mfrs.)
Yuill Bros. (Loggers)
VANS HARBOR—*Vans Harbor Land & Lumber Co.)
VERMONTVILLE—Fuller Bros. (Saw Mill)
VULCAN—*O. C. Lumber Co.
WALLOON LAKE—Walloon Lake Lumber Co.
WEIDMAN—Weidman, John S. (Saw Mill)
WATERS—Stephens Lumber Co.
WELLS—*Ford River Lumber Co. (Shingles, Lath, Poles, Posts, Ties, etc.)
*Stephenson, The I Co. (Flooring Maple, Maple, Clear & Bird's-eye Maple, Clear & Bird's-eye Maple Flooring, Clear & Red Birch Flooring, etc.)
WHITEHALL — *Covell, Lyman T. (Lumber, Lath & Shingles)
*Nufer Cedar Co. (Lumber, Shingles & Tin Plate Boxes)
WOLVERINE—Guelph Patent Cask Co. (Veneer & Hoop Mfrs.)

## MINNESOTA.

ADA—*Wild Rice Lumber Co.
AITKEN—*Gyde, E. A. (Staves & Hoops)
*Hodgeden & McDonald (Saw Mill)
Knox, Geo. W. (Lumber)
ALBERT LEA—Minnesota Lumber Co.
ARLINGTON—*Schmoll & Hilleman
CASS LAKE—*Neils Lumber Co. (Dimension & Timbers; also Boards & Strips Sawed from Norway White Pine; also at Sauk Rapids), Minn.)
CLOQUET—*Cloquet Lumber Co. (White Pine Lumber & Saw Mill)
Cloquet Tie & Post Co.
*Johnson-Wentworth Co. (White Pine Lumber, Lath & Shingles, Saw Mill)
*Northern Lumber Co. (White Pine Lumber
DULUTH—*Alger, Smith & Co.
*American Lumber Co.
*Bradley, H. M. & E. L.
*Burns Lumber Co.
*Duluth Log Co. (Wholesale Posts, Poles, Duluth Lumber Co., 364 Garfield av etc.)
*Duluth Tie & Pulpwood Co.
*Duncan, Brewer & Co. (Lumber), Lyceum
*Empire Lumber Co. bldg
*Heimbach Lumber Co., 20 E. Railroad
*Hobe, E. N. Land & Lumber Co.
§Lesure Lumber Co., Providence bldg
§Martin, L. R. Lumber Co., 18 N 5th av (Cedar Posts, Poles, Ties, Lumber)
§Martin Bros. (Ties & Poles)
*Merrill & Ring Mill Co.
*Milbrook Lumber o.
*Minnesota Timber Co.
*National Pole Co.
*Norton Lumber Co., Manhattan bldg
*Red Cliff Lumber Co. (Lumber, Lath & Shingle)
*Scott-Graff Lumber Co. (Lumber, Lath, Shingles, Pickets, Hardwood, Red & White Oak, Birch, Ash, etc.)
*Shaw, P. M. Jr. & Co.
*Swallow & Hopkins, Exchange bldg
*Virginia & Rainy Lake Lumber Co.
*Waters, Clark Lumber Co.
*Wisconsin Timber Co.
*Woodruff Lumber Co.
§Zenith Cedar Co. (Lumber, Lath & Shingles)
FRAZEE—Nichols & Chisholm Lumber Co.
GRAND RAPIDS—*Knox, L. F. & Co.
HIBBING—Swan River Logging Co.
LITTLE FALLS—*Pine Tree Lumber Co. (White Pine & White Cedar Posts, Shingles, etc.)
MAYNARD—*Maynard Lumber Co.
MINNEAPOLIS—*Backus-Brooks Co. (White Pine), Andruss bldg
§Bailey, Wm. C. (Hardwodo), 600 Central av
*Bell Lumber Co. (Pine, Hemlock & White Cedar Products)
*Bovey-De Laittre Lumber Co. (White Pine, Spruce Fencing, Grain Door Boards), 3900 Washington av, N
*Bovey-Shute Lumber Co., Andruss bldg
*Bowman, S. H. Lumber Co., Lumber Exchange
Brooks-Scanlon Lumber Co., Security Bk bldg
§Burkholder Lumber Co., Lumber Exch
*Buswell Lumber & Mfg. Co., Lumber Exchange
*Carpenter-Lamb Co. (White Pine), Security Bk bldg
Carpenter, W. J. Lumber Co. (Red Cedar Shingles, Siding & Finish Spruce & Fir), Lumber Exchange
*Coolidge, Marshall H. Co. (Cedar Products), Guaranty bldg
*Coolidge-Schussler Co. (Ties, Poles & Posts, Cedar Poles & Posts)
*Crookston Lumber Co. (Northern Pine & Spruce)
§Curran, W. H. & Co., Lumber Exchange
Curtis & Yale Co. (Hardwood, Flooring, Basswood, Ceiling & Siding, Pine Dimensions, Shingles, etc.), Security B'k bldg
*Central Warehouse Lumber Co. (Mixed car lots of Wash'n Fir, Spruce, Cal. Redwood, Hardwood Flooring, Red Cedar, Basswood, Wagon Shook, Bridge Planks, etc.)
§Dolliff, L. P. & Co., Lumber Exchane
*Eddy Lumber Co. (Anything in Pine, Hemlock & Hardwood)
§Fullerton Lumber Co., Lumber Exchange
§Gull River Lumber Co., Lumber Exchange
*Hamilton & Strong (Idaho White Pine, Cedar Shingles, Western Pine, etc.)
*Itasca Lumber Co. (White Pine, Spool Birch, Minn. Poplar, White Cedar Lumber, Ties, Poles & Posts, Cedar Poles & Posts)
International Lumber Co., Andrus bldg
*Johnson, W. W. Lumber Co., Lumber Exchange
*Kaye & Carter Lumber Co. (Cedar Posts & Poles, Ties, Poles & Posts, Cedar Poles & Posts)
*Nichols-Chisholm Lumber Co. (Northern Pine & Spruce)
*Shevlin-Mathieu Lumber Co. (Northern Pine & Spruce)
§Lewis, F. H. (Fir Timber & Idaho Cedar Poles), Lumber Exch
*McCoy, C. M. (Pacific Coast Products)
*McGrath Lumber Co. (White Pine & Spruce)
McCulloch, John Lumber Co., Andrus bldg
McMullin Lumber Co. (Wholesale Fir & Cedar Lumber), Lumber Exchange
*Mercer-De Laittre Lumber Co., Lumber Exch
*Minneapolis Cedar & Lumber Co. (Pine, Hemlock & Fir Lumber, Red & White Cedar Shingles, Cedar Posts & Poles), Lumber Exch
§Minneapolis Lumber Co., Lumber Exchange
*Mississippi River Lumber Co., 3201 N 2d
*Northland Pine Co. (Pine Lumber)
§Osborne & Clark (White Oak Dimension, Basswood Finish, Box Boards, Siding & Ceiling, Maple Axles, Wagon Tongues & Hardwood Flooring)
*Park Rapids Lumber Co., Lumber Exchange
*Partridge, T. M. Lumber Co. (Hemlock, Pine & Hardwood Lath, Northern Pine & Hemlock Lumber, Ties, Poles & Posts) Lumber Ex
*Pendleton & Gilkey, Security Bk bld

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*Red River Lumber Co. (White & Norway Pine, Lumber, Lath & Box Shooks)
*Shevlin-Carpenter Co. (White Pine, Lumber, Lath & Shingles), 4th av North & the River)
*Smith, C. A. Lumber Co. (White Norway Pine Lumber & Box Shocks), 44th & Lynndale av
Smith, C. A. Timber Co., Andrus bldg
*Standard Cedar Lumber Co. (White Cedar Poles, Posts & Shingles, Pine, Hemlock & Hardwood Lumber)
*United Lumber & Shingle Co. (Factory Lumber, Spruce, Fir, etc.; mixed car lots)
*Waite, H. B. Lumber Co. (Wash'n Fir, Spruce & Red Cedar Lumber, Cal. Redwood Lumber & Shingles, Wash'n Red Cedar Shingles, Flooring, Siding, etc.)
ST. PAUL—*Brooks Bros. (Northern Pine, Yellow Pine; mixed car lots, etc.)
§Edwards, W. C. Lumber Co., Manhattan Gribben Lumber Co., 194 E 7th bldg
*Jefferson & Kasson (White Pine, Lumber & Cedar Shingles), Nat'l G. A. Bk. bldg
*Martin, John Lumber Co., 217 Como av
*Nolan, Francis A. (White Pine & Hardwood; also Lath & Shingles), New York Life bldg
*Osgood & Blodgett Mfg. Co. (Hard & Softwood Lumber, Cabinet & Mill Work & Box Mfrs.)
*St. Croix River Lumber Co. (Planing Mill), 185 E Fairfield av
*Weyerhaeuser & Co. (White Pine), Nat'l G. A. Bk. bldg
STILLWATER—*St. Croix Lumber Co. (Saw Mill & Lumber)
*Tozer, David Co. (White Pine)
THIEF RIVER FALLS—*Thief River Falls Lumber Co.
VIRGINIA—*Bailey, W. T. Lumber Co. (Saw Mill)
SPOONER—*Shevlin-Mathieu Lumber Co.
*Rainy River Lumber Co.
WHITE PINES—McGrath, Jno. E. (White Pine)
WILLOW RIVER—*Atwood Lumber Co. (White Pine)
WINONA—*Balcom, H. C. Lumber Co. (Shingles)
*Empire Lumber Co. (White Pine, Lath & Shingles)

## MISSISSIPPI.

BENTONIA—*Link, Newcomb Mill & Lumber Co. (Hardwood)
BEXLEY—*Greene County Lumber Co.
BILOXI—*Biloxi Lumber Co.
BOGUE CHITTO—*Brister, B. E. Saw Mill Co (L. Yellow Pine)
BOND—*North, J. E. Lumber Co. (L. L. Yellow Pine)
BROOKHAVEN—*East Union Lumber & Mfg. Co. (Yellow Pine)
*Monteton & Helms Lumber Co. (Yellow Pine)
*Pearl River Lumber Co. (Yellow Pine)
BROOKLYN—*Griffin, W. C. Land Co. (Saw Mill)
CHATAWA—*Stevens, A. W. Lumber Co. (Yellow Pine)
CHICORA—*Robinson Land & Lumber Co. (Yellow Pine, Timber & Rift Flooring)
COLLINS—*Okatoma Saw Mill Co. (L. L. Yellow Pine, Bridge Timbers, etc.)
*Wood, W. C. Lumber Co. (Yellow Pine)
COLUMBUS—*Pate, D. S. Lumber Co. (Hardwood)
CORINTH—*Pocahontas Lumber Co.
*Seaman Stave Co.
*Small, W. E. (Spokes)
ELLISVILLE—*Anchor Saw Mill Co.
*Ellisville Lumber Co. (L. L. Yellow Pine, etc.)
EPPS—*Wilder, J. F. (Yellow Pine)
FERNWOOD—*Fernwood Lumber Co. (L. L. Yellow Pine)
GLADE—Glade Lumber Co. (Saw Mill)
GLOSTER—Robinson, W. L. Lumber Co. (Saw Mill)
GLOVER—*Knight, W. C. (Cypress, etc.)
GREENVILLE—Alexander Lumber Co.
GULFPORT—*Holmes & Herrick Lumber Co. (Wholesale)
*Naylor, S. E. (Pitch Pine Lumber & Timber, Construction Materials & Hardwood Box Shooks)
HATTIESBURG—*Brookhaven Lumber & Mfg.
*Pole Stock Lumber Co. Co. (Yellow Pine)
Tatum Lumber Co. (Saw Mill)
*Yellow Pine Mfg. Co.
HAZLEHURST—*Hazlehurst Lumber Co. (Yellow Pine)
HOLLYWOOD—*Hunter, C. W. & Co. (Saw Mill, Lumber, etc.)
ITTABENA—*Rucker Bros. (Saw Mill & Lumber)
JACKSON—*Burleighs, R. G. Sons. Ltd. (Staves)
*Empire Lumber & Mfg. Co. (Yellow Pine)
*Enochs Bros. (Yellow Pine)
KOLA—*Kola Lumber Co. (Yellow Pine)
LAKE—*Merrill & Co. (Saw Mill)
LAUREL—*Eastman, Gardiner & Co. (L. L. Yellow Pine)
*Lindsay, John
LELAND—Darnell-Love Lumber Co.
LOGTOWN—*Weston, H. Lumber Co. (L. L. Yellow Pine)
LUCEDALE—§Bostick, J. H. & Co.
*K. C. Lumber Co. (Yellow Pine)
LUMBERTON—*Camp & Hinton Co. (Yellow Pine)
*Hinton Bro. Lumber Co. (L. L. Yellow Pine)
*Pearson, J. C. Lumber Co. (Saw Mill)
LYMAN—Ingram-Day Lumber Co. (Saw Mill)
McCOMB—*White, J. J. Lumber Co. (L. L. Yellow Pine, Kiln Dried, Dressed Flooring)
MEEHAN JUNCTION—*Cotton State Lumber Co.
MERIDAN—*Grant, M. R. (L. L. Yellow Pine)
Gray, C. L. Lumber Co.
MISH—*Pine Lumber Co. (Yellow Pine)
MINOT—*Hicks & Sons (Shingles, Lumber, etc.)
MOORHEAD—*Moorhead Mfg. Co. (Saw Mill)
MOSS POINT—*Dantzler, L. N. Lumber Co. (Yellow Pine & Rift Flooring)
*Denny, W. & Co. (L. L. Yellow Pine)
*McInnis, Nott & Co. (Saw Mill)
McIntosh Lumber Co.
MOUNT OLIVE—Blount Lumber Co. (Saw Mill)
*Cooley Bros. Lumber Co. (Saw Mill)
NATCHEZ—*Learned, R. F. (Cypress)
NORFIELD—*Butterfield Lumber Co. (Yellow Pine)
ORA—*Easterling Lumber Co. (Yellow Pine)
ORVISBURG—*Champion Lumber Co. (Yellow Pine. Mill Work & Timbers up to 60 ft. long)
PICKAYUNE—*Rosa Lumber Co. (Saw Mill)
PINEBUR—*Walworth & Neville Mfg. Co. (Yellow Pine)
PURVIS—*Hand, James (Saw Mill)
QUITMAN—*Mississippi Lumber Co. (Yellow Pine)
SANFORD—*Ship Island Lumber Co. (Yellow Pine)
SARDIS—*Carrier Lumber & Mfg. Co. (Hardwood Lumber & Bent Wood Work, Oak Flooring & Rotary Cut Veneers)
SCRANTON—*Farnsworth Lumber Co. (Yellow Pine)
SEMINARY—*Connor Lumber Co. (L. L. Yellow Pine)
TEN MILE—*Ten Mile Lumber Co. (Yellow Pine)
VICKSBURG—*§Houston Bros. (Hardwoods, Yellow Pine & Cypress)
WAYNESBORO—West-King Lumber Co. (Saw Mill)
Wetherbee-Huggins Co. (Yellow Pine)
YAZOO CITY—*Hicks Bros. (Saw Mill)

## MISSOURI.

ANNAPOLIS—Benson, J. S.
BETHANY—*Miner & Frees
BLODGETT—*Cary Saw Mill Co.
BUTLER—Logan-Moore Lumber Co.
CAMPBELL—Garetson-Hilton Lumber Co.
CANTON—Canton Saw Mill Co. (Saw Mill)
CAPE GIRARDEAU—*Himmelberger-Harrison Lumber Co. (Gum, Oak, etc.)
*Indiana Lumber Co. (Hardwood)
*Leming, M. E.
*Pott, F. W. (Staves, etc.)
CARUTHERSVILLE—Reynolds & Crews
*Riverside Lumber Co.
COFFEYBURG—§Crossan, Miner & Frees
DES ARC—*Graves, E. W.
DEXTER—Disher Hoop & Lumber Co.
DONIPHAN—Harmon, C. P. (Saw Mill)
EAST PRAIRIE—*Montgomery, Stit & Pool (Saw Mill)
FREDERICKTOWN—*Fredericktown Lumber Co. (Yellow Pine & Oak Lumber & Mfrs.' Wagon Hubs)
GIDEON—*Gideon Anderson Lumber & Mercantile Co. (Hardwood)
GLASGOW—*Rall Bros. (Hardwoods, Native)
GRANDIN—*Missouri Lumber & Mining Co. (Missouri Yellow Pine)
GREENVILLE—*Halliday-Klotz Land & Lumber Co. (Yellow Pine)
HARRIS—Durman, L. C. (Saw Mill)
HARVIELL—*Foster, S. W. (Staves & Headings)
*Mangold Stave & Lumber Co. (Lumber, Beer & Wine Casks, Staves & Headings)
KANSAS CITY—*American Sash & Door Co., 16th & Bellefontaine
*Anson Shingle & Lumber Co., 50 K. P. bldg
*Badger Lumber Co.
*Bowman-Hicks Lumber Co. (Yellow Pine)
*Buchanan, Wm. (Yellow Pine)
*Carter, C. J. Lumber Co. (Short Leaf Yellow Pine Finish Flooring & Siding)
*Central Coal & Coke Co. (Yellow Pine)
*Chapman & Dewey Lumber Co.
Chatten, S. H.
*Connolly Hardwood Lumber Co. (Oak, Ash, Cypress, etc.)
*Dickason Goodman Lumber Co.
*Foster Lumber Co. (Yellow Pine)
*Gloyd Lumber Co. (Yellow Pine, etc.)
§Hope, Geo. D. Lumber Co. (Yellow Pine)
*Leidigh & Havens Lumber Co. (Yellow Pine)
*Louisiana & Texas Lumber Co.
*Long-Bell Lumber Co. (Yellow Pine)
*Merrill & Co. (Hardwood)
*Missouri Lumber & Land Ex. Co. (Missouri & Louisiana Pine, Oak Flooring)
*Missouri Tie & Timber Co.
*Norton Lumber Co. (Yellow Pine)
*Penrod Walnut & Veneer Co. (Black Walnut)
*Pickering, W. R. Lumber Co. (Yellow Pine), Mills, Pickering, La.
*Sabine Lumber Co. (Yellow Pine)
*Saline River Lumber Co.
*Vernon Lumber Co.
KENNETT—*Kennett Cypress & Hardwood Lumber Co.
LEEPER—Geo., Clarkson (Saw Mill)
LOUISIANA—La Crosse Lumber Co.
MARQUAND—*Whitener, J. Q. D. Land & Lumber Co. (Saw Mill)
MOREHOUSE—*Himmelberger-Harrison Lumber Co. (Red Gum, White & Red Oak, Ash, Elm & Cypress, Rough, Dressed & Worked to Order)
NEELEYSVILLE—*Star Ranch & Land Co. (Hardwood)
NEW MADRID—*Loud, E. A. (Staves & Lumber)
*Mann Grandfio Land & Lumber Co.
Mishler Lumber Co (Saw Mill)
PACIFIC—Koppitz-Smith Mill Co.
POPLAR BLUFF—*Ferguson & Wheeler
*Hargrove & Ruth Lumber Co.
*Ruth, H. I.
PORTAGEVILLE—Haines, E. C. & Son (Lumber Saw & Planing Mill)
POTOSI—Smith, Chas. D. (Saw Mill)
ST. JOSEPH—Dougherty & Moss Lumber Co.
§Nold, C. H. Lumber Co.
§Ray, E. W. & Son
South Mo. Pine Lumber Co.
ST. LOUIS—*American Hardwood Lumber Co. (Oak, Poplar, Ash, etc.), N Market n Levee
*Bagnell Timber Co. (R. R. Ties), 706 Chestnut
§Banner Lumber Co., S Newstead & Duncan av
*Bennett, Alf Lumber Co. (Yellow Pine), Wright bldg
§Berthold & Jennings Lumber Co. (Long Leaf Yellow Pine, Oak & Cypress Lumber, Bridge Timbers, Piling & Telegraph Poles), 207 N 8th
Boynton Land & Lumber Co., 319 N 4th
*Buchanan, Wm. (Yellow Pine), 706 Chestnut
*Chicago Mill & Lumber Co. (Yellow Pine, Oak & Cypress, Hemlock & Gum Lumber & Cedar, White Oak & Black Locust Poles, Posts & Pilings, Red Cedar, Cypress & White Pine Shingles, White Pine, Cypress Yellow Pine Lath), 122 N 7th
§Chivvis, W. R. (Hardwood), Lesperance & Iron Mtn Ry
*Columbia Lumber Co. (Yellow Pine), Equitable bldg
*Dixie Lumber Co. (Yellow Pine), Wright bldg
§Druhe Hardwood Lumber Co. (Hard Wood), c Main & Clinton
*Ferguson-McDaris Lumber Co. (Yellow Pine), 721 Olive
*Ferguson, W. T. Lumber Co. (Yellow Pine), 205 N 8th
*Freeman-Smith Lumber Co. (Yellow Pine), 7th c Pine
*Frost-Trigg Lumber Co. (Yellow Pine, either Straight or Mixed Cars), Equitable bldg
*Garrett, T. H. Lumber Co. (Yellow Pine, Saw & Planing Mills), Chemical bldg
§Gavin, Stephen T. Lumber Co. (Yellow Pine, etc.)
*Greyson-McLeod Lumber Co. (Yellow Pine), 205 N 8th
§Griffen, Geo. M. Lumber Co. (Oak & Cypress Piling, Telephone Poles, Railroad Materials, etc.), Oriel bldg
§Gruner, Philip & Bro., Lumber Co., Cass av c 9th
§Hafner Mfg. Co. (Cypress, Hardwoods), Yellow Pine), ft Dock
*Harris, Loyd G. Mfg. Co. (Hardwood), Levee nr Barton
§Hearne Timber Co., Mermod & Jaccard bldg
*Holmes, J. A. Lumber Co. (Michigan Lumber, White & Yellow Pine Flooring, Siding, Shingles, Lath, etc.; Poplar, Cherry, Ash, Walnut & Mahogany, Car & Bridge Timber Specialties), 1104 Spruce

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§Huie-Hodge Lumber Co., 122 N 7th
*Kimball Lumber Mfg. Co. (Cypress & Oak), Equitable bldg
*Liebke, C. F. Hardwood Mtls & Lumber Co., 2d & Buchanan
*Little Lumber Co. (Southern Hardwoods, Red Gum a Specialty)
*Lothman Cypress Co. (Louisiana Cypress), foot of Angelica
*Luehrmann, Chas. F. Hardwood Lumber Co. (Oak, Ash, Poplar, Cypress, Cottonwood, Yellow Pine, Walnut, Maple, Hickory, Cherry, Sycamore, Gum & Wagon Stock), 148 Carroll
*Malvern Lumber Co. (Yellow Pine), Chemical bldg
§Massengale Lumber Co. (Hardwood), 2500 N Main
*Mechanics' Planing Mill Co. (Cypress), 3742 N B'way
*Miles, Geo. W. Timber & Lumber Co. (Yellow Pine), Fullerton bldg
*Monarch Lumber Co. (Yellow Pine), Wright
*O'Neil Lumber Co., B'way c Gratiot bldg
*Ozan Lumber Co., Equitable bldg
*Ozark Cooperage Lumber Co., Liggett bldg
§Plummer Lumber Co. (Hardwoods. Cypress Shingles), 3130 Hall
Richardson, J. P. & W. H. (Lumber Commission), 122 N 7th
*Saginaw Lumber Co., 205 N 8th
§Smith, F. H. Co. (Oak, Ash, Poplar, etc.), Commercial bldg
§Steele & Hibbard (Hardwood), 3129 N B'way
*Summit Lumber Co. (Yellow Pine), Wright bldg
§Thomas & Proetz Lumber Co., 3400 Hall
*Werner, Louis Saw Mill Co. (Oak, Ash, Poplar, Gum, Short & L. L. Yellow Pine, Cypress & Cottonwood), 122 N 7th
*Western Tie & Lumber Co., 313 N 9th
*Wilson-Reheis-Rolfes Lumber Co. (Yellow Pine), Main & Bremen av

SMITHVILLE—§Major, H. R. & Co.
SPICKARD—Kincade, Cal.
SPRINGFIELD—*Dunckel Box & Lumber Co. Hobart-Lee Tie Co. (R. R. Timbers) Hudson Lumber Co. (Saw Mill)
TYLER—*Tyler Land & Timber Co.
UNION—Vitt, A. A. & Co. (Saw Mill)
WAYNESVILLE—Kerr, W. C. & Sons (Saw Mills)
WINONA—*Ozark Land & Lumber Co. (Mo. Soft Pine)

## MONTANA.

BONNER—*Big Blackfoot Milling Co. (Car & Bridge Timbers, etc.) *Northwestern Lumber Co. (Montana Hard)
KALISPELL—*Kalispell Lumber Co. (Lumber Mfrs. & Wholesalers)
SOMERS—*Somers Lumber Co. (Larch Lumber)

## NEBRASKA.

HASTINGS—§Hansen Lumber Co. §Oliver Lumber Co.
KEARNEY—*Gilcrest, F. H. Lumber Co.
LINCOLN—§Dunn & Kincaide Lumber Co. *Foster, S. A. Lumber Co.
OMAHA—§Baker, J. L. §Bradford-Kennedy Co., 309 S 13th §Bullard, Hoagland & Benedict (Hardwood) §Cady, H. F. Lumber Co., Douglas c 6th §Chicago Lumber Co. (Mo. Soft Pine), 814 S 14th §Dietz, C. N. Lumber Co. (Hardwood), 1214 Farnam §Dodds Lumber Co., 407 Brown blk §Guion & Ledwich, 1204 N 18th §Hampton Lumber Co. (Hardwood), 1242 S §Hoagland, G. A., 9th c Douglas 16th §McShane Lumber Co., First National Bank bldg Omaha Hardwood Lumber Co. (Hardwood), California & 13th §Walrath & Sherwood Lumber Co., Mer. National Bank bldg §Wentworth, Lew, 618 Paxton blk
SOUTH OMAHA—§Bradford, Louis Lumber Co. §Watkins, J. B. & Co.

## NEW HAMPSHIRE.

ALEXANDRIA—Patten, S. G. (Saw Mill)
ALSTEAD—Clark, F. W. (Saw Mill)
AMHERST—Fuller, Lemuel (Saw Mill) Hartshorn, Frank (Saw Mill)
ANTRIM—Holt, Chas. F. (Saw Mill) Poor, M. D. (Saw Mill)
ASHUELOT—*Dickinson's, A. Sons (Saw Mill)
AUBURN—Pingree, A. W. (Saw Mill)
BARNSTEAD—Drake Bros. (Saw Mill)
BATH—Ammanoosuc Lumber Co. (Saw Mill)
BEDFORD—Holbrook, F. G. (Saw Mill)
BELMONT—Phelps, George A. (Saw Mill) Weeks, Jas. H. (Saw Mill)
BEMIS—*Morey, Chas. H.
BERLIN—Fernald-Woodward Co.
BRADFORD—*Peaslee, D. G. (Saw & Shingle Mill)
BRENTWOOD—Flanders, Chas. (Shingles)
CHESTER—Dale Bros. (Shingle Mills) Goldsmith, N. W. (Shingles) Morse, Augustus P. (Saw Mill)
CONWAY—*Kennett, A. C. *Quint, L. C. & H. A.
CRYSTAL—*Jackson, And'w
DOVER—*Faxon & Kimball *Rollins & Foss Seavey, J. F. Lumber Co. (Dealers)
DUBLIN—Knight, C. F. & Son (Saw Mill & Shingles)
DUNBARTON—Page, W. F. (Saw Mill)
EAST ROCHESTER—*Tibbets & Hayes
EAST SULLIVAN—Harris, W. H. (Saw Mill)
EXETER—Dow, Albert N.
FARMINGTON—*Jenness Bros.
GILSUM—*Dart, Samuel W.
GORHAM—*Libby, E. & Sons. *Mainstream Lumber Co.
GRANTHAM—Burpee, M. P. (Saw Mill) Reed & Buswell (Saw Mill)
GREENLAND—Brackett, S. S. (Saw Mill)
HAMPTON—Brown, F. B. (Saw Mill)
HOLLIS—Hayden Bros. (Saw Mill) Tarbell, E. E. (Saw Mill)
HOOKSET—*Head, W. F. & Son (Lumber & Saw Mill) *Thompson, James
JEFFERSON—*Rines, Mark
LACONIA—*Cook's Lumber Co. (Staves, Exterior & Interior Finish, Dimension Spruce, Pine & Hemlock, Shingles, Laths, etc.)
LEBANON—Flanders, L. C. (Saw Mill)
LEE—Fifield, E. O. (Saw Mill) Plummer, Daniel E. (Lumber)
LINCOLN—*Henry, Jas. E. & Sons
LISBON—Conrad, Edward J. (Saw Mill) Noyes, F. B. Co. (Saw Mill) *Parker & Young Co. (Piano Stock, Packing Boxes & Lumber)
MANCHESTER—West Side Lumber Co.
MARLOW—Gee, G. F. (Saw & Shingle Mill) Jefts, C. P. (Shingle Mill)
MILFORD—Gutterson & Burtt (Saw Mill) *Peirce, W. E. & Co. (Lumber, Lath, Shingles, Posts, Mill Work, Finish, etc.) Ware, W. H. & Co. (Saw Mill)
NASHUA—Cook, F. D. Lumber Co. *Roby & Swart (Box Shooks, Boxes, etc.) Tolles, J. H. & Co.
NEW MARKET—Glidden, Guy A. (Saw Mill)
NEWPORT—Pollard, Ralph S. (Saw Mill)
PARKHILL—Goodnow, E. J. (Saw Mill)
PELHAM—Coleman, J. N. & Son (Saw Mill) Jones, H. A. (Saw Mill)
PERCY—*Percy Lumber Co.
RAYMOND—Batchelder, H. W. (Saw Mill)
REED'S FERRY—*Parker, E. E. & P.
RICHMOND—*Amidon, Frank
ROCHESTER—Felker Bros. (Lumber & Saw Mill) *Langley, Geo. H. Lumber Co. Rochester Lumber Co. (Mfrs.)
RUMNEY DEPOT—*Herbert, H. W. (Shingles)
RYE BEACH—Jenness, C. A. (Saw Mill)
SALEM—McLaughlin, K. (Saw Mill)
SALISBURY—Holmes, C. C. (Saw Mill)
SANDOWN—Sanborn, A. S. (Saw Mill)
SHORT FALLS—Tripp & Tennant (Saw Mill)
SOUTH CHARLESTOWN—*Bowen, G. G.
SOUTH KINGSTON—Bartlett, W. S. (Saw Mill)
SOUTH TAMWORTH—*Mason, W. N.
STRATFORD—*Dennis, D. H. *Kimball, William H.
SUNAPEE—Rowell, J. W. (Saw Mill)
SURRY—Scripture, H. N. (Saw Mill)
SUTTON—*Wadleigh & Keyser (Saw Mill)
TILTON—Knapp, Geo. E. (Saw Mill)
UNION—Farnham, J. F. (Saw Mill) Plummer, Geo. L. (Saw Mill)
WALPOLE—Colburn Bros. (Saw Mill)
WARNER—*Carroll, E. H. & Sons. *Davis, Martin & Co. Ela, M. T. (Saw Mill)
WARREN—Park, W. R. (Lbr. & Saw Mill)
WASHINGTON—Dole, M. H. (Saw Mill)
WATER VILLAGE—*Thompson, S. J. & Son
WEBSTER—Burbank Bros. (Lumber & Boxes)
WEST BRENTWOOD—Fellows, Russell (Saw Mill)
WEST CAMPTON—Moulton & Johnson (Saw Mill)
WEST CHESTERFIELD—Amidon, G. F. (Saw Mill)
WEST EPPING—Folsom, Thos. C. (Saw Mill) True & Ham (Shingle Mill)
WEST THORNTON—*Veazey, W. D. & Co.
WESTVILLE—Peaslee, E. E. (Saw Mill)
WILTON—Livermore, Hy. H. (Saw Mill)
WINCHESTER—*Jennings & Buffum Naramore, Edgar H. (Lumber & Pail Staves)
WINDHAM DEPOT—Seavy, Geo. E. (Saw Mill)

## NEW JERSEY.

ASBURY PARK—Buchanan & Smock Lumber Co. (Saw Mill, etc.) Hurley, James B. (Saw Mill) Lewis Lumber Co.
BLATYESTOWN—*Labor, L. T. (Saw Mill)
BERLIN—*Robinson, W. B. (Saw Mill)
BRIDGETON—*Elmer, Ellison (Saw Mill)
CALDWELL—*Crane, Marcus (Saw Mill)
CAMDEN—*Baird, David & Co. (Lumber & Saw Mill) Coles, C. B. & Sons Co. (Saw Mill) §Humphreys, H. & Co. §Munger & Bennett (N. C. Pine) §Scudder, R. G. & Son §Smith, R. F. & Son §Stockham, Chas. Lumber Co. (Saw Mill)
CENTERTON—*Ackley, Coombs (Saw Mill)
CLAYTON—*Crane Bros. (Saw Mill)
EGG HARBOR CITY—*Bozarth Lumber Co.
JERSEY CITY—§Baldwin Lumber Co., Garfield §Dodge & Bliss Co., 15th av & Grand §Vanderbeek & Sons, Green & Steuben §Woodstock Co. (Pine, Cypress & Hardwood), 467 Spring
MALAGA—*Hitchner, Jacob Jr. (Saw Mill)
NEWARK—§Bailey & Alling, Ogden ft. Clay §Bockhoven Bros. Co., 132 Astor §Brohm & Buhl, 202 Badger av §Clark & Co. (White & N. C. Pine), Jelliff §Collier, Eusebius, 494 Broad ave §Crowell, James (Hardwood), Ogden ft Cross Essex Lumber Co., 200 Passaic Glasby, J. F. Lumber Co., 5 Badger av Jones, Wm. A. & Son (Saw & Planing Mill, Pine, Hardwood, etc.), ft Centre §Murphey-Hardy Lumber Co. (Lumber & Planing Mill), 150 Passaic §Oathout, Wm. J., 443 Broad §Ripley, D. & Sons Lumber & Timber Co. (Saw & Planing Mill & all kinds of Lumber & Timber, Mouldings, Trimmings, etc.), 443 Broad §Stone & Hershey, 800 Broad
NEWTON—*Broda, Deanka (Saw Mill)
OCEAN CITY—*Oak Island Lumber Co. (Saw Mill)
PATERSON—§Stiles, E. M., 223 Ellison
PEDRICKTOWN — *Straughen, B. W. (Saw Mill)
PITTSTOWN—*Deats, Emley H. (Saw Mill)
ROCKAWAY—Stickle, B. K. & G. W.
SOUTH SEAVILLE—*Collins, Jacob P. (Saw Mill)
VERNON—*Burrows, Jos. (Saw Mill)

## NEW MEXICO.

ALAMOGORDO—*Alamogordo Lumber Co. (Spruce & Pine Lumber)
ALBUQUERQUE—*Albuquerque Lumber Co. *American Lumber Co. §Baldridge, J. C. *Crescent Lumber Co. §Rio Grande Material & Lumber Co.
CHILLI—Romero, E. & Son (Saw Mill)
MAGDALENA—Hughes, W. H. (Saw Mill)
PINOS ALTOS—Redstone Co. (Saw Mill)
RATON—§Gate City Lumber Co.
ROSWELL—*Pecos Valley Lumber Co.

## NEW YORK.

AFTON—Church Bros. (Saw Mill)
ALBANY—§Arnold & Co., 6 Lumber District Bennett, Wm. (Planing Mill), 1 Lumber District §Crannell, Francis F., Ferry & Water §Easton Cypress Co., 4 Lumber District §Eaton, W. J., DeGraff bldg Hart & Fleet (Planing Mill), Bridge c Mill §Hubbell, C. T. & Co., 3 Lumber District §Hughson & Co., 1 Lumber District §Hunter, Dexter, Water & Lawrence §Kibbee, A. S. & Son, 24 Lumber District §Moore, R. H. & Zimmerman, 438 S Pearl §Nichols, Chas. B. & Son, 14 Lumber District §Patton & Co., 23 Lumber District Ramsdill & Co. (Planing Mill), Colonie & Montgomery §Robinson, John & Co., 116 Water Taaffe's William Sons, 128 Water Thomson, L. & Co. (Pine, Spruce & Hemlock), 14 Lumber District Welsh & Gray, 70 4th av §White, Richard P. (Pine, Spruce & Hemlock), 44 N Pearl
ALDEN—Milliman, E. A. (Saw Mill)
ALTMAR—Horton Lumber Co.
ALTON—Burns, Samuel T. (Saw Mill)
BARKERSVILLE—Mattison, George
BATH—*Jones Bros. & Parker (Lumber)
BENNINGTON—Zehler, M. F. (Saw Mill)
BERNE—Cheesebro, W. T. (Saw Mill)

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BINGHAMTON—*Alaculsey Lumber Co.
§Ensign Lumber Co.
*Middlebrook, C. D. & Son, State & Lewis
§Lyons, A. J. Sons, 16 South
*Weed, J. B. & Co.
BLEECKER—Ernst, Frank (Saw Mill)
*Peters, John M., Jr. (Saw Mill)
BLOCKVILLE—Green Bros. (Saw Mill)
BOYNTONVILLE—Kautz, Chas. (Saw Mill)
BRANT—Calkins, Milford (Saw Mill)
BRASHER FALLS—Church, Elmon (Saw Mill)
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—§Bartholomew, Edw. W. Lumber Co., Prudential bldg
§Betts, Chas. M. & Co. (Pine, Cypress & Shingles), Hertel av & Niagara River
*Beyer, Knox & Co. (Hardwood), 69 Leroy av
*Boller, Chas. & Sons Co. (Planing Mill), Chicago c Carroll
*Buffalo Hardwood Lumber Co. (Hardwood), 940 Seneca
*Buffalo Maple Flooring Co. (Maple & Oak Flooring), Chicago & Mackinaw
§Curtis, Walter L. Prudential bldg
*Elias G. & Bro. (Pine, Hemlock & Hardwood Flooring, 965 Elk
*Empire Lumber Co. (Hardwood), White bldg
*Emporium Lumber Co. (Hardwood), Ellicott sq
*Goodyear Lumber Co. (Penna. White Hemlock), 960 Ellicott sq
§Haines Lumber Co. (Shingles, Pine, Red Cedar Lumber), 255 Erie
Hauenstein, Alfred G. (White & Norway Pine), 848 Ellicott sq
§Hurd Bros. (Lath, Shingles & Timber), Prudential bldg
*Jackson & Tindle (Hardwood Lumber, Slack Cooperage & Broom Handles)
§Laidlaw, R. Lumber Co. (White Pine Lumber, Lath & Shingles), 59 Miami
§Laycock Lumber Co. 706 Ellicott sq
*Leslie, D. Y., 92 River
§McLean, Hugh Lumber Co. (Hardwood & Veneers), 940 Elk
*McNeil Lumber Co., Prudential bldg
§Mason, Edward Z., D. S. Morgan bldg
*Miller, Anthony (Hardwood), Eagle & Fillmore
§Mixer & Co. (Mich. White Pine), Prudential bldg
*Montgomery Bros. & Co. (Yellow Pine & Hardwood), Court & Wilkeson
§Reilly, W. W. & Bro., Brisbane bldg
§Scatchard & Son (Hardwood), 886 Ellicott sq
*Standard Hardwood Lumber Co., 1075 Clinton
*Stewart, I. N. & Bro. (Hardwood), 892 Elk
Sullivan, T. & Co. (Hardwood; specialty, Ash & Elm), 50 Arthur
Superior Veneer & Cooperage Co. (Saw Mill, Cooperage & Veneer Mill)
§Taylor & Crate (Hardwood), Prudential bldg
§Underhill, D., Jr., & Co., Erie Co. Bk. bldg
§Wheeler-Holden & Co. (Hardwood, Erie Co. Bank bldg
*Yeager, Orson E. (Hardwood), 932 Elk
BURRS MILLS—Manigold, George
BUTLER CENTER—Merrill, Willis
CALLICOON—Herman, Martin (Saw Mill)
CANANDAIGUA—Garrett, Wm. (Saw Mill)
CANDOR—Booth, J. F. & T. S. (Saw Mill)
Ryan, John H. (Saw Mill)
CANTON—*Spears, James (Lumber)
CARLISLE—Brown Bros. (Saw Mill)
CASSVILLE—Carpenter, W. H. & Son (Saw Mill)
CASTORLAND—*Basselin, T. B. (Saw Mill)
CASTILE—Elitsac Mfg. Co. (Planing Mill, Wooden Toys & Novelties)
CATSKILL—Post, Amos (Saw Mill)
CENTRAL BRIDGE—Ottman, M. C. (Saw Mill)
CENTRALIA—Littlefield, Sidney (Saw & Shingle
CHARLOTTE—*Upton Co. Mill)
CHENINGO—Hollister & Bryant (Saw Mill)
CHERRY CREEK—Hess, C. E. (Planing Mill)
CHESTERTOWN—Maxim, Lemuel (Saw Mill)
CLARKSBURG—Smith, J. H. (Saw Mill)
CLYMER—*Dewink Bros. (Shingle Mill & Baskets)
*Parker, Aaron H. Lumber Co. (Planing Mill, etc.)
CROGHAN—*Lafave, J. R. Lumber Co. (Hardwoods)
*Lafave, J. R. Lumber Co. (Hardwoods)
Steiner, Jos. (Saw Mill)
CUBA—*Phelps & Sibley (Hardwood, Lumber & Shingles)
*Rowley, William Co. (Shingle Mill)
CUTTING—*Case, H. R. (Lumber, Shingles, etc.)
DALTON—Van Nostrand, Wm. (Shingle Mill)
ELLICOTTVILLE—Ellicottville Milling Co. (Saw Rust & Olin (Saw Mill)
ELMIRA—*Doane & Jones Lumber Co. (Car Trade a Specialty)
FREDONIA—Kruse, Frederick
GALLUPVILLE—Haverly, E. W. (Saw Mill)
GARFIELD—Atwater, W. H. (Saw Mill)
GLENS FALLS—*Finch, Pruyn & Co.
Gifford, Williams & Co.
*Kendrick & Brown Co.
GLOVERSVILLE—§Burr Bros. (Lumber & Saw
*Holden Lumber Co. (Lumber) Mills)
Peck, Albert T. (Saw Mill)
HAGEDORNS MILLS—Chase, Stephen (Saw Mill)
HARRISVILLE—*Humes & Wilber (Lumber, Kilbourn, R. A. Shingles, Lath, etc.)
Kimball, C. H. & Son
HERMON—Fairbanks, R. J. (Saw Mill)
HOLLAND—Griggs, Ichabod N. & Son (Saw
HOMER—Brown, C. S. Mill)
JAMESTOWN—§Ross-Warren Lumber Co. (Hardwood)
LESTERSHIRE—*Lestershire Lumber & Box Co. (Sells Direct)
MARATHON—Burgess, Jas. S. (Saw Mill)
MARIAVILLE—Walpole, D. W. (Saw Mill)
MARYLAND—Burnside Bros. (Saw Mill)
MEXICO—Ames, J. K. (Saw Mill)
MIDDLE GROVE—Colburn, Wilfrid
MIDDLEPORT—Rowley & Eddy
MIDDLETOWN—§Gordon Lumber Co.
Miller, P. F.
MILLERS MILLS—Grosline, W. D. (Saw Mill)
MONSEY—Requa, Sara (Lumber)
NEWBURGH—§Newburgh Lumber Co.
*Newburgh Planing Mill Co.
NEW HAMBURG—*Millard Lumber Co. (White Pine, N. Y. Spruce, Pa. Hemlock & Box Shooks)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—§Brooklyn Lumber Co. (Timbers), 452 Hamilton av
Bossert, Louis & Son, Grand nr Newtown Creek
§Curtis Bros. Lumber Co., Liberty av c Vesta av
§Ferguson & Clarke, 517 Flushing av
§Gowanus Lumber Co. (Pine & Hardwood), ft of 24th
§Halsted Lumber Co., 222 Nevins
§Jacobson, A. C. & Sons, 81 Bridge
§Leary, James D. (Firm Name), Timbers), Provost nr Eagle
§Orr, Jno. C. & Co., West c Java
§Wilson, C. W. & Co. (Yellow Pine, Timbers, etc.), West c Kent

### Boroughs of Manhattan & Bronx.

NEW YORK—§American Lumber Co. (Hardwood, Lumber & Timber), 32 Cortlandt
*American Mahogany Co. (Hardwood), 225 Fifth av
*Atlantic Coast Lumber Corp., 42 B'way
§Baxter, G. S. & Co. (Ties, Piling, Railroad Lumber, etc.), 17 William
§Booth & Lewis Lumber Co. (Southern Pine), 18 B'way
§Burton, J. H. & Co. (N. C. & Yellow Pine, Rift, Flooring & Cypress), 45 B'way
Cannon, J. H. & Co. (N. C. & Yellow Pine), 66 Beaver
*Cape Henry Lumber (Hardwood), 1 Madison av
§Cathcart, Jno. Lumber Co. (Hardwood), 39 Cortlandt
§Chase, Talbot & Co., 29 B'way
§Cole, Fredk. W. (Hardwood & N. C. White Pine), 29 B'way
*Cooney, Eckstein & Co. (Yellow Pine, Lumber & R. R. Ties), 66 Broad
§Creed, W. R. & Co. (L.-L. Yellow Pine), 1 Madison av
§Crombie, W. M. & Co. (for Export & Domestic Trade), 81 New
§Delatour, A. J. (Hardwood), 176 Cherry
§Eppinger & Russell Co. (Yellow Pine), 165 B'way
§Export Lumber Co., 15 William
Green, A. H. (Box Shooks, etc.), 97 Warren
*Herrmann, H. Lumber Co., 254 Canal
§Hilton & Dodge Lumber Co. (Cypress), 17 Battery pl
§Hirschberg, H. (Pine, Cypress & Hardwood), 99 Nassau
*Holcomb & Caskey Lumber Co. (Pine, Hemlock & Cypress, Lumber & Shingles), 10 B'way
§Hussey, Jno. W. (Bridge & Dock Timber, etc.), 1 B'way
Lafond, Fred'k S. Co., 66 Broad
§Langdon, C. S. & Co., 71 Beaver
§Lewis, Harry I., Cotton Exch bldg
§Lowry, Robt. C. & Co. (Yellow Pine & Box Shooks), 1170 B'way
§McDonald, Jno. W., 106 Wall
§Manning, Chas. W., 68 Broad
§Miner, Stanley H. (Timber, Piles, Dock Logs, etc.), 17 Battery Pl
*Morgan Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.; Shingles, White Cedar, Red Cedar & Pine), 116 Nassau
§Murchie, Horace B. & Co., 58 Pine
§Parrott, Wm. & Co., Produce Exch
*Pitch Pine Lumber Co., 11 William
§Price & Hart (Hardwood & Veneers), 18
§Quinby, Edgar H., 68 Broad B'way
§Rennolds, J. A. & Bros., 116 Broad
*Roper, John L. Lumber Co. (N. C. Pine), 18 B'way
Salmon, Hamilton H. & Co. (Hardwood), 88 Wall
§Shepard & Morse Lumber Co. (Cypress, N. C. Pine, etc.), 18 B'way
§Simpson, Clapp & Co., 17 State
§Sizer, Robert R. & Co. (Yellow Pine), 15 William
§Smith, Gouverneur E. & Co., 17 Battery Pl
§Southard & Co. (N. C. Pine), 11 Broadway
§Stratton & Wilson, 11 B'way
Swayze, Geo. A., 18 B'way
§Turner, J. C. Lumber Co. (White Pine, Rd Cedar, Cypress & Poplar), 1123 B'way
Wiley-Harker Lumber Co., Flat Iron bldg
*Williams, I. T. & Sons, 220 11th av
*Yellow Pine Co. (White & Yellow Pine, Spruce & Hemlock), 16 Beaver

### Borough of Queens.

LONG ISLAND CITY—Eppinger & Russell Co. (Yellow Pine), 1st & East av.

**(End of New York City)**

NORTH TONAWANDA—Butts, Chas. G. Co. (Box Shooks, Box Lumber, Crating, etc.)
OGDENSBURG—*Proctor Mfg. Co. (Lumber & Mill Work)
*Skillings, Whitney & Barnes Lumber Co. (White Pine)
ONEIDA—*Bennett & Klock (Saw Mill)
PARISHVILLE—Clark, S. L. & Son (Lumber, Butter Tubs, etc.)
PARKERS—*Parker, L. B. (Spruce & Hardwood
PERRY—Andrus, David (Saw Mill) Flooring)
PIFFARD—Shattuck, T. N. (Heading & Staves)
PIKE—Powers, Wm. (Saw Mill)
PITCHER—Bennett, Geo. W. (Saw Mill)
POINT ROCK—Bates, Orson C.
PORTER CORNERS—Jones, John S. (Saw Mill
RANDOLPH—Wilson, Lydell L.
ROCHESTER—§German-American Lumber Co., 62 Portland av
§Hollister Lumber Co. (Hardwood & Pine), 316 N. Goodman
§Miller, John (White Oak & Pine), 691 Exchange
§Morse, Wm. B. Lumber Co. (Hardwoods, Pine & Hemlock, Shingles, etc.)
**WOOD MOSAIC FLOORING CO.** (Hardwood Lumber & Oak Flooring), (See adv. index, end of book)
ROME—Comstock, Edward
ROUSE POINT—*Millard Lumber Co. (Lumber & Box Shooks, Pine, Spruce & Hemlock)
SAMMONSVILLE—Sammons, W. S. (Saw Mill)
SANDY HILL—*Griffin Lumber Co.
*Kenyon Lumber Co. (Lath, Saw Mill, etc.)
SCHENECTADY—Peckham, Wolf & Co.
Veeder & Brown
SHERMAN—Simmons, J. H. (Shingle Mill)
SIDNEY—§Siver, M. L. & Co. (Pine, Spruce & Cypress)
SOLSVILLE—Lyon's Mills (Saw Mills)
SOUTH STOCKTON—Wakeman, Frank (Saw Mill)
SPRINGBROOK—Northrup, Eli (Saw Mill)
SYRACUSE—§Bannon Lumber Co.
§Chapman's, E. E. Sons, 1322 Carbon
§Kenyon, Geo. G. Lumber Co. (Hardwood, Shingles, etc.), 601 E Watts
§McChesney & Tracy Lumber Co. (Pine & Hemlock, Shingles, etc.), 607 James
§McDowell, John Kenyon, 211 Wilkinson
§Mann & Hunter Co., 962 Salina
TONAWANDA—*Alliger, Frank I. Lumber Co. (Lumber, Box Shooks & Baled Shavings)
†Bellinger, A. A.
§Brady Bros.
*Charlton, John & Thos. (Timber, Lumber & Planing Mill)
§Collins Cornelius (Wholesale Commission)
§Cowper, W. H. & Co. (Forwarders via Rail & Canal)
Dodge & Bliss Co. (Box Shooks & Planing Mill) (Also see Jersey City, N. J.)
Eastern Lumber Co. (Mill Work)
§Fenton & Sons Box & Lumber Co.
§Gillespie, Jas. (Wholesale Commission)
§Godkin, John

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*Hoadley & Bennett Lumber Co. (Yellow Pine)
§Jones, R. T. Lumber Co. (Pine, etc.)
*Kelsey-Dennis Lumber Co.
§Kelsey, W. E.
§Lentz, C. B.
§McLean Bros. (Wholesale Lumber)
§Mackenzie, J. P. (Wholesale Lumber
§McBurney, J. A. Lumber Co.
§Northern Lumber Co.
§Oille & McKean Lumber Co. (Wholesale Lumber)
§Robinson Bros. Lumber Co. (White Pine Lumber & Shingles)
§Silverthorne, Wm. & Co. (Lumber & Shingles)
§Smith, Fassett & Co. (White Pine)
§Smith, M. M. (Wholesale Commission)
§Swan, Lewis H & Co.
*Thompson, Hubman & Fisher (Lumber & Planing Mills)
§Transfer Lumber & Shingle Co.
§Twin City Lumber Co.
§Weston, A. & Son
§White, Frost & White
*White, Gratwick & Mitchell Lumber & Planing Mills)
§White, W. H. & Co.
§Wilk, C. J. & Co.
§Wilson Lumber & Box Co.

TROY—*Madden Lumber Co. (Lumber & Planing Mill), 599 1st av (Lans.)
UNION CENTER—Howard, B. (Saw Mill)
UTICA—Downer's Lumber Yard, 280 Whitesboro
Gibson, G. P. & Son, 720 Genessee
§Kellogg, C. C. & Sons Co.
§Nellis, Amos & Swift (Hardwood)
Thomas', Philip Sons, 137 Kemble
WATERTOWN—§Harroun, J. E. & Son (Spruce Flooring Siding Lath, Shingles & Box Shooks)
WATERVLIET—§Waterman, Smith A.
WARWICK—Horton, M. V. B. (Saw Mill)
WEBSTER CROSSING—White, Charles H. (Saw Mill)
WELLS—*Hosley, M. B. & Sons (Hardwoods)
WELLSVILLE—*Coats Mfg. Co. (Hardwood)
*Duke Oak Lumber Co. (Lumber, Timber & Shingles)
*Fassett, Fred. W. (Lumber)
Hanks & Hopkins
WEST BURLINGTON—Gardner, O. C. (Saw Mill)
WEST ONEONTA—Rouse, Albert (Saw Mill)
WEST STOCKHOLM—Gibson, G. N. & Son
WEST WINFIELD—Hackley, A. C. (Saw Mill)
WHITESBORO—*Denton & Waterbury (Lumber, Lath & Shingles)
WILLIAMSTOWN—Sage, J. L.
WILLSBORO—Highby, H. Co. (Saw Mill)
WOLCOTT—§Strait, J. G. & Son (Lumber)
WORCESTER—Hadsell, J. T. & Son (Saw Mill)

## NORTH CAROLINA.

ABERDEEN—Aberdeen Sash & Blind Co.
ALLIANCE—Campen, Samuel (Saw Mill)
ALMA—*Alma Lumber Co.
AMITY—Christy, M. A. (Saw Mill)
ANDREWS—Russell, D. S. (Saw Mill)
ASHBORO—*Star Lumber & Mfg. Co. (Saw Mill)
ASHEVILLE—§Cooper, W. N.
McEwen Lumber Co.
Mason, W. T. Lumber Co.
ATKINSON—Murphy, J. A. (Saw Mill)
Hawes, E. A. (Saw Mill)
AUSTIN—Burchett, C. M. (Saw Mill)
BISCOE—Burt & Hicks
Kanoy, J. E.
BOARDMAN—*Butters Lumber Co. (N. C. Pine)
BOLTON—Waccamaw Lumber Co. (Cypress, N. C. Pine, Cedar & Gum, Lumber, Lath & Shingles)
BRIDGEWATER—Albernethy & Lyerly (Saw Mill)
BURGAW—*East River Lumber Co. (Band Sawn, Rough Kiln Dried N. C. Pine)
CANDOR—*Ewing & Campbell (Saw Mill & Shingles)
*Sutton, R. B. (Lumber)
CARTHAGE—Currie & McQueen (Saw Mill)
McAuley, J. R. (Saw Mill)
CATES—Cates, J. T. (Saw Mill)
CHARLOTTE—Wearn, J. H. & Co. (Lumber & Mfrs. Office Fixtures)
DOVER—*Goldsboro Lumber Co. (Yellow Pine Flooring & Finish)
EDENTON—*Branning Mfg. Co. (N. C. Pine & Box Shooks)
ELIZABETH CITY—Commander, T. A. & Son
GREENSBORO—*Brooks Mfg. Co.
*Guilford Lumber Mfg. Co.
GREENVILLE—Overton, D. D. (Saw Mill)
HERTFORD—Major & Loomis (Saw Mill)
HICKORY—*Hutton & Bourbonnais (Lumber, Boxes & Shooks)
HIGHPOINT—*Snow Lumber Co.
HOT SPRINGS—Undegraff, S. G.
LENOIR—*Wilson Lumber & Milling Co.
LUMBER BRIDGE—Lancaster, D. B. & Co.
MADISON—Cahill, E. P. (Saw Mill)
MANCHESTER—Black, Neill
MAPLETON—Carmen, Geo. E. (Saw Mill)
NEWBERN—*Blades Lumber Co. (N. C. Pine & Saw Mill)
*Broaddus & Ives Lbr. Co. (N. C. Kiln Dried Pine Shingles, etc.)
Elm City Lbr. Co. (Saw & Planing Mill)
*Munger & Bennett
*Pine Lumber Co.
NEW HILL—*Hunter Bros. & Co.
NEWPORT—Bell, W. S. (Saw Mill)
PLYMOUTH—*Plymouth Lumber Co.
*Roanoke R. R. & Lumber Co.
*Walker & Myers (Saw & Planing Mills)
RALEIGH—Lassiter, C. J. (Saw Mill)
RED SPRINGS—Love, J. M. & Co. (Planing Mill)
*Pearsall, A. B. (L. L. Yellow Pine)
*Red Springs Lumber Co.
Sikes, McIntosh & Co. (Saw Mill)
Singleton, J. A. (Saw Mill)
ROPER—*Roper, John L. Lumber Co. (N. C. Pine)
SANFORD—*Sanford Sash & Blind Co. (Dress-ed, etc.)
WASHINGTON—Kugler Lumber Co.
*Short Lumber Co. (N. C. Pine)
Walling, W. B. (Saw Mill)
WEST END—*West End Veneering Co. (Veneers)
WILLIAMSTON—*Simmons, Dennis Lumber Co. (N. C. Pine)
*Wicomico County Lumber Co.
WILMINGTON—*Angola Lumber Co.
*Cape Fear Lumber Co.
*Chadbourn Sash, Door & Lumber Co.
*Hilton Lumber Co.
*Kidder Lumber Co.
WINSTON SALEM—Cummings, J. M. (Lumber & Planing Mill)
*Hoover, A. L. & Co. (Saw Mill)
WINTON—Jordan & Parker (Lumber)
Taylor, W. P. (Lumber)

## NORTH DAKOTA.

ADDISON—*Liberty Lumber Co.
ASHLEY—*North Star Lumber Co.
*Phoenix Lumber Co.
FARGO—*White Lumber Co.
GRAND FORKS—*Robertson Lumber Co.
MAYVILLE—*Beidler & Robinson Lumber Co.

## OHIO.

AKRON—Akron Lumber Co., 1027 S Main
Lyman-Hawkins Lumber Co.
ASHLAND—Shearer, Kager & Co. (Saw Mill)
Thomas, Myers & Wolf
AXLINE—Weller, John W. (Saw Mill)
BAINBRIDGE—Durnell, C. E. (Saw Mill)
BELLEVILLE—*Ritter, P. (Lumber, Staves & Headings)
BLUFFTON—*Althaus, Ewing & Co.
Kimmel, J. W.
BOWLING GREEN—Bigelow Bros. (Saw Mill)
BUCYRUS—*Colter, Jacob & Co. (Saw Mill)
CADIZ—*Long, E. M. & Sons
CEDARVILLE—Tarbox Lumber Co. (Saw Mill)
CINCINNATI—Acme Veneer & Lumber Co. (Veneers, Thin Lumber & Mahogany Lumber), 8th & Harriet
§Asher, I. M. Lumber Co. (Hardwoods), Bank & Western av
§Banning, L. G. (Walnut, Quartered Oak, Ash & Mahogany), 5th & Main
*Bennett & Witte (Ash, Oak, Elm Gum, Cypress, Poplar, etc.), 222 W 4th
§Boyd, Chas. C. & Co. (Hardwood & Veneered Lumber), Glenn bldg
§Browne, H. R. (Yellow Pine, Poplar & Cypress), Fosdick bldg
Cincinnati Hardwood Lumber Co. (Oak & Mahogany Veneers), Gest & Summer
Crane, C. & Co. (Hardwood Lumber & Box Lumber), 1739 Eastern av
*Cypress Lumber Co., Gest & Dalton av
§Darling, J. W. Lbr. Co. (Ash, Oak, Poplar, etc.), Union Trust bldg
Doppes, J. B. Sons Lumber Co., 1246 Gest
*§Duhlmeier Bros. (Hardwoods, Mahogany, etc.), Wade & Dalton av
§Dulweber, Jno. & Co. (Hardwood), McLean av & Findlay
§Enterprise Lumber Co. (Yellow Pine, Lath & Shingles), Kenner & McLean av
*Farrin, M. B. Lumber Co. (Poplar & Oak, Beveled Siding, Flooring, Oak for R. R. Ties, Fence Posts, Bridges, Ships, Dock Piling, etc.), Winton pl
*Farrin-Korn Lbr. Co. (Cottonwood, Rough & Dressed Yellow Pine), Station av, Winton Place
*Freiberg Lumber Co. (Hardwoods), Mahogany & Spanish Cedar), McLean & Findlay
§Galle, W. F. & Co. (Southern Hardwoods), 1262 Budd
§Goodman & Wright (Yellow Pine & Cypress), First National Bank bldg
Graham Lumber Co. (Yellow Poplar), 41 E 4th
Griffiths, Jos. & Sons (Planing Mill), Reading rd & E 12th
§Hall, C. R. Lumber Co., Commercial-1150 Kenner
§Heyl, Philip F. (Pine, Poplar & Cypress), 1215 W 6th
§Hinckley-Dwight Lumber Co. (Yellow Pine & Cypress), 2209 Fulton av
*K. & P. Lumber Co. (Walnut, Oak, Ash, Poplar & Cherry; Exporters of Logs), Carthage Pike & B. & O. S. W. Ry.
§Keeveny, T. W. Lumber Co. (Pine, Hardwoods & Shingles), 8th, nr Carr
*Kentucky Lumber Co. (Gum Oak, Ash & Chestnut, Factory Lumber, Poplar, Bevel Siding, Dimension Strips, Shelving Boards, Mouldings, etc.), 1st Nat'l B'k bldg
§Kipp, B. A. & Co. (Hardwood), 818 W 6th
§Lewin, A. M. Lumber Co. (Yellow Pine & Cypress), Bank & McLean av
§Littleford, Geo. (Hardwood), 1263 Richmond
§McRoberts, J. T. (Yellow Cottonwood & Southern Hardwoods), Mercantile Library bldg
*Maley, Thompson & Moffett Co. (Black Walnut Logs, Hardwood, Mahogany & Veneer), 8th & Evans
§Mickle, H. L. Lumber Co., Mitchell bldg
§Mowbray & Robinson (Poplar & Hardwoods, Car Stock, Ties, etc.), 1219 W 6th
§Nicola, Stone & Myers Co. (Pine & Hardwood), 1221 W Liberty
*Ohio Veneer Co. (Mahogany & Thin Lumber & Veneers, Sliced, Cut & Sawed Quartered Oak Veneers), 2620 Colerain av
Owl Bayou Cypress Co., 1308 Central av
*Perry, Wm. H. Lumber Co. (Heavy Oak & Pine Timbers a Specialty), 1821 Gilbert av
Pierson, J. L. & N. L., Cooper & Cherry
§Radina, L. W. & Co. (Hardwoods), Clark & Dalton av
§Richey, Halsted & Quick (Poplar, Yellow Pine, White Pine, Oak), Traction bldg
§Riemeier Lumber Co. (Hardwoods, Quartered & Plain Oak), Gest & Berlin
§Roberts, E. & Co. (All Kinds), 414 E Court
§Scott, T. P. & Co., York & McLean avs
§Shiels, Chas. F. & Co. (Hardwood), McLean av & Gest
*Sowles, C. W. Lumber Co. (Hardwoods, White & Yellow Pine), Thomas bldg
§Stewart-Roy Lumber Co. (Hardwood), Mercantile Library bldg
*Stone, T. B. Lumber Co. (Yellow Poplar, Oak, Chestnut, Walnut, Gum, Cottonwood & Ash), Union Trust bldg
Taft, S. H., 1308 Central av
Townley, Wm. E. & Co., McLean av & Gest
§Western Lumber Co. (Hardwood), c 8th, nr. Evans
§Wiborg & Hanna Co. (Yellow Pine & Hardwood), 2649 Cummins
CLARK—Conkle, John (Saw & Planning Mill)
CLEVELAND—§Advance Lumber Co. (Pine & Hardwoods), Rockefeller bldg
§Alexander Bros. Lumber Co., Schofield bldg
Barner-Mead Lumber Co., 1962 E 107th
§Central Lumber Co., Williamson bldg
*Cleveland Box Co. (Resawed Lumber, Box Shooks, Packing Cases & Crating), Stone's Levee & Ohio
§Cool, W. A. & Son (Hardwoods), The Arcade
§Cuyahoga Lumber Co., 1948 Carter rd, N W
§Euclid Av Lumber Co., 11710 Euclid av
§Fisher & Wilson Co. (White Pine), Rockefeller bldg
§Foote, C. H. Lumber Co., 1955 Scranton rd, S W
§Georgian Bay Co., 55 Stone's levee
§Gill Lumber Co., 1892 W 3d, S W
Greif Bros. Co. (Barrels & Kegs & Stack Cooperage Stock), 1937 Willey av, S. W.
Interstate Lumber Co., The Arcade
*Jenks, Robert H. Lumber Co. (Yellow Pine, Red Oak, Hemlock & Hemlock Shingles), 308 Euclid av
Lake Erie Lumber Co., 5459 Hamilton av, W. E.
*Martin-Barriss Co. (Mahogany & Cabinet Wood Mfrs. & Importers), 2048 W 3d
§Mills-Carleton Co., 1886 Carter rd, N W
Nicola, Stone & Myers Co., Hickox bldg
§Potter, Teare & Co., 1918 Carter rd, N W
§Prasse Lumber Co., 1864 Columbus rd, N W
§Saginaw Bay Co., 2106 W 3d, S W
Singletary Lumber Co., 1633 Merwin, N W
COAL GROVE—*Yellow Poplar Lumber Co. (Yellow Poplar & White Woods)

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COALTON—Haslett, C. W. (Saw Mill)
COLUMBUS—*Allen, H. R. & Co.
*Bergin, M. J. Lumber Co.
§Brasher, H. D. Lumber Co.
*Columbus Saw Mill Co.
*Cones & Menefee
*Cook, D. S. & Co.
§Davis, A. C. Lumber Co.
*Dixie Lumber Co.
§Federal Lumber Co.
*Gelton & Converse
§Hildreth & Martin Lumber Co.
§McLaughlin-Hoffman Lumber Co.
§Middle States Lumber Co.
*Ritter, W. M. Lumber Co.
*Snider, J. J. Lumber Co.
CUYAHOGA FALLS—Walsh Milling Co.
DAYTON—*Dayton Lumber & Mfg. Co.
§Edwards, E. L.
§Gebhart, Alex. & Co.
*Hartzell, Geo. W. (All Kinds of Hard-
Hossafous, H. C. woods)
§Kuntz-Johnson Co.
§Kuntz, Peter
*Miami Lumber & Veneer Co. (Hardwoods)
DELAWARE—§Clark & Battenfield
§Dunlap, C. C.
§McKenzie Lumber Co.
ELLERTON—Poe & Linebaugh (Saw Mill)
FAYETTE—Allen, J. O. & Co.
FINDLAY—*Parker Bros. (Lumber & Mills)
Pennsylvania Lumber Co.
FOSTORIA—Fraver, F. W. (Saw Mill)
FRANKFORT—Ott, Jno. W. (Saw Mill)
FRANKLIN—Hankinson, J. V. (Saw Mill)
GALENA—Bennett, E., C. (Saw Mill)
GREENFIELD—Barr, W. L. (Saw Mill)
HAMILTON—Bender Co. (Lumber & Planing Mill)
Dingfelder, W. M. & Co. (Lumber & Planing Mill)
IRONTON — *Fearon Lumber & Veneer Co. (Poplar, Rough & Dressed)
§Ironton Lumber Co.
§Nigh Lumber Co. (Poplar, Ash & Walnut)
*Ward, W. G. Lumber Co.
Whisler & Sclarcy Co. (Hardwood)
LEIPSIC—Buckeye Stave Co. (Large, Saw, Planing & Stave Mill)
LORAMIE—Wise, Aug. (Saw Mill)
LORDSTOWN—Park Bros. (Saw Mill)
MANTUA—Hine & Cook
MARION—Implement Mfg. Co. (Hardwood)
MARTIN—Post, Geo. E. (Saw Mill)
MIAMISBURG—*Wantz, H. Lumber Co. (Hard-
ROSEVILLE—Coombs, Hy. (Saw Mill) wood)
SOUTH SALEM—Lunbeck & Son (Saw Mill)
SOUTH WARSAW—*Hardin, F. P. & J. J. (Saw Mill)
SPENCERVILLE—Reynolds Lumber Co. (Saw Mill)
SPRINGFIELD—*Rawlins, Albert M. (Hard-
wood), Main & Lincoln av
STRYKER—Stryker Boat, Oar & Lumber Co.
SYCAMORE—Petty, J. A. (Saw Mill)
TIRO—Allen, B. F.
TOLEDO—*Acme Lumber Co. (Hardwoods, &
& Ties, Poles & Posts)
*Barbour & Starr (Cork, Pine & Sash
Stock), Summit c Albany
§Barnes & Mauk, Gardner blk
§Campbell Co. (& Planing Mill), Hoag nr
Dorr
*Empire Lbr. Co. (White & Yellow Pine),
Ash c Water
§Kelsey & Freeman (White Pine)
*MacLaren & Sprague Lbr. Co. (White Pine)
*Peter, Wm. (White Pine), 197 S St. Clair
§Trotter Lumber Co.
URBANA—Stephen Bros. (Hardwood)
VAN WERT—*Gleason Lumber Co. (Saw Mill)
WAUSEON—Wauseon Lbr. Co. (Hardwood)
*Williams, H. H. & Co. (Saw Mills)

## OKLAHOMA.

ARDMORE—Chickasaw Lumber Co.
CHICKASHA—Stephenson-Browne Lumber Co.
MUSKOGEE—Muskogee Lumber Co.
OKLAHOMA—*Pine Tree Lumber Co. (Yellow
RED ROCK—*Foster Lumber Co. Pine)

## OREGON.

ANLAUF—*Anlauf Bros.
ASHLAND—*Ashland Mfg. Co.
ASTORIA—*Astoria Box Co. (Boxes & Lumber)
*Hammond Lumber Co.
AUDREY—*King, L. D.
AUMSVILLE—*Miller & Goin
AURORA—*Keil, Arthur W. (Saw Mill)
BAKER CITY—*Oregon Lumber Co.
BEAVERTON—*Livermore, F. W.
BRIDAL VEIL—*Bridal Veil Lumbering Co.
BROWNSVILLE—§Calapooia Lumber Co.
BULLARD—*Fahey, E. & Sons
CAMAS VALLEY—*Kirkendall, J. A. & Sons
*Thrush Bros. (Saw Mill) (Saw Mill)
CANBY—*Adkins, Jas.
*Cole Bros.
CANYONVILLE—*Pickett, J. R.
CARLTON—*Carlton Lumber Co.
CASCADE LOCKS—Oregon Lumber Yard
CLATSKANIE—§Clatskanie Lumber Co.
*West Oregon Lumber Co.
COBURG—*Booth-Kelly Lumber Co.
COMSTOCK—*Skidmore, Wm. & Son.
*Stewart & De Launay
COQUILLE—Johnson Lumber Co. (Saw Mill)
CORVALLIS—*Corvallis Mfg. Mill Co.
COTTAGE GROVE—*Ashland Mfg. Co.
*Brown Lumber Co.
*Cerro Gordo Lumber Co.
§Chambers, J. H.
*McKibben Bros.
*Woodward, A. L.
CURTIN—*Stewart & De Leauney
*Skidmore & Co.
DALLAS—*Willamette Valley Lumber Co.
DAYS CREEK—*Neuner, Geo. S.
DEXTER—*Parwin & Cruzan Bros.
DIVIDE—*Chatman S. & F.
*Lindstrom, P. A.
*Taylor & Lee
DORENA—*Chambers Lumber Co.
DRAIN—*Elk Creek Lumber Co.
*Page Investment Co.
DREWSEY—Ott, John & Co.
DUFUR—*Dufur Lumbering Co.
Ward Bros.
EMPIRE—*Southern Oregon Co.
ESTACADA—*Davis & Webster
EUGENE—*Booth-Kelly Lumber Co.
§Eugene Lumber Co.
FALLS CITY—*Falls City Lumber Co.
FISHHAWK—Freeman, D. W. (Saw & Planing Mill)
FOREST GROVE—*Williams, W. H. & Son
FOSSIL—*Butte Creek Land, Live Stock &
FOSTER—*Wodtli, Fred. Lumber Co.
FRIEND—*Wheeler, D. S. & Son
GALES CREEK—*Miller, Clarence
GARFIELD—Linn Bros. (Saw Mill)
GLENDALE—Glendale Lumber Co.
GOBLE—*Broughton-Wiggins Lumber Co.
*Goble Milling Co.
*Jones, E. A.
GRANTS PASS—*Welter, Pracht & Schmidt
*Williams Bros. Bros.
GURDANE—McLaughlin, J. A.
HARDMAN—Parker Mill & Lumber Co.
HEPPNER—*Slocum, A. M.
HILGARD—Casey, J. D. (Lumber & Ties)
HOBSONVILLE—Miami Lumber Co. (Saw Mill)
HOOD RIVER—*Stanley-Smith Lumber Co.
HOSKINS—*Frantz, C. A.
JUNE—June Lumber Co.
KENO—McCormack, Thos. (Saw Mill)
KLAMATH FALLS—*Moore, C. S. & R. S.
LACOMB—*Banner Mill Co.
LEBANON—*Lebanon Lumber Co.
*Smith & Jerome
LEONA—*Leona Mills Lumber Co.
LINNTON—*Clark & Wilson Lumber Co.
§Noyes, J. B. & Co.
LONDON—*Shortridge, W. C.
LORANE—*Addison Bros. & Ross
LOST VALLEY—Lost Valley Land & Lumber Co.
MARCOLA—*Fischer Bros.
MEACHAM—Meacham Lumber Co.
MEDFORD—*Stevens, A. J.
MEDICAL SPRINGS—Langrell, R. T.
MELROSE—*Diller, E. W.
MILL CITY—*Curtiss Lumber Co.
MILLWOOD—Clark & Sons (Saw & Shingle
MILTON—*Olinzer Bros. Mill)
MIST—*Libel, Casper
MOUNTAINDALE—*Thompson Bros.
MOUNT ANGEL—*Giger Bros. & Lackey
*Mortenson, Wm.
MULINO—Trullinger, D. L.
MYRTLE CREEK—*Myrtle Lumber Co.
NEWBERG—*Spaulding, Chas. K. Logging Co. (Rough & Dressed Ash & Maple, etc.)
OAKLAND—Norris Bro.
OREGON CITY—*Moehnke, Chas. (Saw Mill)
§Shannon Bros.
ORIENT—Straus Lumber Co.
PAISLEY—*Chenaucan Lumber Co.
PEDEE—Pedee Lumber Co.
PEORIA—Kaltrider, Wm. (Shingles)
PERRY—*Grande Ronde Lumber Co.
PHILOMATH—Henkle, J. L.
PORTLAND—§Ainslie, Geo. & Co. (Imported Woods & Mill Work), Pettygrove c 15th
§Broughton & Wiggins Co. (Piling & Cedar Poles), Cham. of Com. bldg
*East Side Mill & Lumber Co.
§Eastern & Western Lbr. Co., Front st, N
*Falls City Lumber Co. (Soft Siletz, Yellow Fir Lumber & Red Cedar Shingles)
*Inman, Poulsen Co. (Oregon Pine), ft E
*Jones Lumber Co. Sherman
*Lindsley-Wright Co. (Poles, Ties, Piling & Timber, etc.), Sherlock bldg
*Monarch Lumber Co.
*Multnomah Lumber & Box Co.
§North Pacific Lumber Co.
§Northwest Door Co., ft Albina av
Nordby Lumber Co., Lumber Exch bldg
*Oregon & Washington Lumber Co.
*Pacific Export Lumber Co. (Pine, Fir & Spruce), Cham. of Com. bldg
§Patterson Lumber Co.
§Peninsula Lumber Co. ("Oregon" Fir Lumber, Car Material Exclusively)
§Portland Lumber Co. (Fir Lumber, Lath, Flooring, Ceiling, Dimension, Long Tim-
*Shevlin Timber Co. bers), ft Lincoln
*Spaulding Logging Co.
§Standard Box & Lumber Co.
*West Side Lumber & Shingle Co.
Wheeler Lumber Co., Sherlock bldg
RANIER—*Columbia River Door Co.
*Oregon-Kansas Lumber Co.
*Ranier Mill & Lumber Co.
*Stehwan Bros. (Saw Mill)
*Wilson, C. C. Lumber Co.
RIDDLE—*Littler, P. M.
ST. JOHNS—§St. Johns Lumber Co.
SANDY—Strauss Lumber Co. (Saw Mill)
SCAPPOOSE—*Nelson-Wilcox Lumber Co.
*North Coast Co-Operative Lumber Co.
SCHOLLS—*Groner & Rowell Co.
SCOTTS MILLS—*White, Chas. A.
SEASIDE—*Seaside Lumber & Mfg. Co.
SHERIDAN—*March, T. H.
*Sheridan Lumber Co.
SHERWOOD—*Conzelmann Bros.
*Vincent, F. D.
SILVERTON—*Porter, A. L.
*Ross, E. W.
*Lais, Jno. G.
*Schiedler & Hartman
*Silverton Lumber Co.
STAFFORD—Saum, George (Saw Mill)
STAR—*Star Lumber Co.
*Taylor Geo. & Sons
STAYTON—*Brown, Lee & Sons
SWEET HOME—*Weedle, John
TILLAMOOK—Long, Frank
*Tillamook Lumber Mfg. Co.
WALKER—*Briggs Lumber Co.
WARRENTON—*Kelly, D. L. Lumber Co.
*Old Oregon Lumber Co.
WATERLOO—Hurst, E. P. (Saw Mill)
Wiley, J. M. (Saw Mill)
WEST PORT—*Westport Lumber Co.
WILDWOOD—*Wildwood Lumber Co.
WOODBURN—*Abaqua Lumber Co.
YANKTON—Sherman Bros. & Stanwood
YONCALLA—*Cutlack Bros.

## PENNSYLVANIA.

ALLEGHENY—§Bruckman Lumber Co.
§McClure Timber Co. (Lumber & Saw Mill)
Schulze & Emanuel (Lumber & Planing Mill)
*Walter, H. R. Lumber Co. (Hardwood & Yellow Pine)
ALLENTOWN—§Laubach, M. H. & Bro.
§Trexler Lumber Co.
ASHLAND—*Bright, H. F.
AUSTIN—Goodyear Lumber Co.
AVONDALE—Hicks, Jno. H. (Saw Mill)
BANDANNA—Heil, Jno. (Saw Mill)
BARRY—Bolich, Wm. (Saw Mill)
BARTONVILLE—Slutter, L. L. (Saw Mill)
BEANS COVE—Donohoe, Peter (Saw Mill)
BEAVER FALLS—§Brierly, F. K.
BEAVERTOWN—Engle, A. W. (Saw Mill)
BECHTELSVILLE—Stauffer, A. T. B. (Saw Mill)
BELLEFONTE—*Crider, P. B. & Son (Lumber & Saw Mills)
BELLE VERNON—*Belle Vernon Planing Mill Co.
BIG RUN—*McClure, Tyson & Irwin
BRADFORD—*Bemis, J. M. & Son
§Bond, Alfred J. (Hemlock), 124 Mechanic
*Bradford Hdw. Lumber Co.
*Stout & Holden
BROOKVILLE—§Anderson Lumber Co.
Cook, A. W.
*Vanleer Bros. (Lumber & Planing Mill)
BURNT CABINS—Comerer, W. M. (Saw Mill)
CAMBRIDGE SPRINGS—Blystone, C. W. (Saw
CANTON—*Crawford, H. & Sons Mills)
CLARINGTON—*Braden, A. R.
Clarington Saw Mill Co.
*Work, Josiah & Son
CLEARFIELD—*Clearfield Lumber Co. (Ltd.) (Hemlock, Pine, Oak & Hardwood)
COATESVILLE—Ash, Chas. W. (Saw Mill)
CONNER—Thomas, L. M. (Saw Mill)
CONYNGHAM—Hess, A. E. (Saw Mill)
COOKSBURG—Cook, J. R. (Saw Mill)
*Cook's, A. Sons (Lumber)
DUBOIS—*Dubois, Jno. E.
EASTON—Butz, Edward M. (Planing Mill)
Zearfoss-Hillard Lumber Co. (Lumber & Saw Mill)

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BEENSBURG—*Griffith, Webster (Maple Flooring, Hemlock & Hardwood)
ELIZABETH—Rhodes, S. O. (Saw Mill)
ELKLICK—Compton, Demetrius (Saw Mill)
ELMER—*Gilbert, C. A.
EMPORIUM—*Catlin, C. G. (Saw & Shingle Mill)
*Howard, C. B. Co.
ENDEAVOR—*Wheeler, Aylesworth & Co. (Saw Mill)
*Wheeler & Dusenberry (Lumber, Lath & Shingles, Pine Lumber up to 72 feet)
EVANS CITY—*Dambach, Edw. Co.
FELTON—Stabley, W. H. (Saw Mill)
GRAND VALLEY—*Wood, L. B. Co.
GUYS MILLS—Morgan, John (Saw Mill)
Williams Bros. (Saw Mill)
HALLTON—*Hall, Gardner & Co. (Lumber)
*Moore, W. B.
HOLLIDAYSBURG—*Irvine, Robt. C.
*Young, Blair B. (Saw Mill)
IOLA—*Eves, W. M. & Sons
JERSEY SHORE—*Torbert, J. Frank
Childs Brothers Lumber Co. (Saw Mill)
JOHNSTOWN—*Murdock, J. M. & Bro. (White Oak, Hemloch, White Pine & Hardwood)
KANE—*Mell, Geo. H. (Rough & Dressed Lath & Shingles)
KEATING SUMMIT—*Emporium Lumber Co. (Hardwood)
KNOXVILLE—*Edgecomb's, I. M. Sons (Mill Work)
KUTZTOWN—*Gonser, John R.
LANCASTER—Kalbach, A. M. (Saw Mill)
Keystone Planing Mill Co.
Lancaster Planing Mill Co.
Spider Lake Saw Mill & Lumber Co.
MARIENVILLE—*Hart, W. T. (Lumber & Shingles)
*Shields, D. B.
MILLERSBURG—Snyder, C. J. (Saw Mill)
MILTON—*Clinger's, D. Sons (Lumber & Planing Mill)
MONONGAHELA—*Monongahela Saw & Planing Mill Co.
NEW BETHLEHEM—*Andrews, C. E. Lumber Co. (White Oak, White Pine & Hemlock, Timber & Lumber)
NEWBURG—Brook, Aaron (Saw Mill)
NEWTOWN—Watson, A. W. & W. M. (Saw & Planing Mill)
NORRISTOWN—Grater-Bodey Co. (Planing Mill)
PAINTERSVILLE—Goss, W. H. & Bro. (Saw
PANIC—North, H. K. (Saw Mill) Mill)
PARNASSUS—*Logan, J. W. & Sons (Lumber & Planing Mills)
PENNSYLVANIA FURNACE—Brown, A. M. (Saw Mill)
PERKASIE—Benner, A. S. (Saw Mill)
PHILADELPHIA—§Anderson & Sionaker, Del. av c Poplar
§Betts, Chas. M. & Co. (Pine, Cypress & Shingles), Real Est. Trust Co. bldg
§Blauvelt, W. S. & Co., 4106 York rd
§Bruner, Owen M. Co. (White & Yellow Pine & Hardwood, Maple Flooring, Rift Yellow Pine, Flooring a Specialty), Land Title bldg
§Buzby, C. M. & Sons, 626 Wash'n av
§Cathrall, Eugent H. 102 Walnut
*Cherry River Boom & Lbr. Co. (W. Va. Spruce, Hardwoods, Cypress & Pine), Land Title bldg
*Colonial Lumber Co., Lippincott bldg
§Coolbaugh, C. C. & Son (Pine & Hardwood), Heed bldg
§Coppock-Warner Lumber Co. (Yellow Pine), Land Title bldg
§Craig, Geo. F. & Co. (White, Yellow & N. C. Pine, Spruce), Drexel bldg
§Este, Chas. Co., Glenwood av nr 20th
§Fritz, Wm. H. & Co., Crozer bldg
Gardy, Wm. R. (Yellow Pine Flooring), Land Title bldg
§Garman, A. St. Clair, 2050 N 8th
§Geissel & Richardson, Ridge av c Master
§Gillingham, Frank C. & Son Co., Norris n Richmond
§Hallowell, Eli B, & Co. (Hardwood, Pine & Cypress Lumber), Harrison bldg
§Hammer, Thos. B., Girard bldg
§Holloway, J. N. & Co. (Hemlock, Hardwoods & N. C. Pine), Arcade bldg
§Janney, Jos. W., 1157 Beach
§Kay, Robt. G. (W. Va. Spruce, also Pine & Hemlock), Girard bldg
§Kent, J. S. Co. (All Pine, Spruce & Shingles), Harrison bldg
§Ketcham, Howard, 1166 N 3d
§Kirby & Hawkins (White & N. C. Pine, Hardwood & Ties), Arcade
§Kugler, Geo. W. & Sons, 921 New Market
§Little, Jno. J., Land Title bldg
*Little River Lumber Co., Girard bldg
§Lloyd, Sam'l & Co., Perry bldg
§Lloyd, Wm. M. Co. (Ltd.), Ridge av c N 29th
§Lukens Bros. (Pine, Spruce, Hardwood & Shingles), 809 N Delaware av
*Lukens, Jesse & Co., 3400 N 6th
§McIlvain, J. Gibson & Co. (Hardwood a Specialty), S 58th c Woodland
§Malone, Watson & Sons, Pier 44, N Wharves
§Maus, H. H. & Co. (N. C. Yellow Pine, Shingles, Lath, Cypress, R. R. Ties, Poles, etc.), 416 Walnut
*Miller & Miller Lumber Co. (Spruce & Hardwood), Land Title bldg
§Nass, Geo. & Son, N Broad & Vine
§Otter Creek Broom & Lumber Co. (Hemlock), Witherspoon bldg
*Pamlico Lumber Co. (N. C. Pine), Land Title bldg
§Peart, Nields & McCormick Co., Harrison
§Pennell, Edmund, Penna bldg bldg
§Producers' Lumber Co. †(Yellow Pine), Land Title bldg
§Provident Lumber Co., Arcade bldg
§*Rawson, Wm. L., Mutual Life bldg
*Rice, Thos. B. & Sons Co. (White Pine & Hemlock Lumber), Mifflin St. Wharf Delaware River)
*Roper, Jno. L. Lumber Co. (N. C. Pine & Cedar Shingles), Girard bldg
§Rumbarger, J. L. Lumber Co. (Red Oak, Cherry, Spruce & Hemlock), Harrison bldg
§Schofield Bros. (White Pine, Spruce, Hemlock, etc.), Penna. bldg
§Shearer, Sam'l H. & Son, Crozer bldg
*Sheip, Henry H. Mfg. Co. (Cigar Box Lumber), 529 Columbia
§Smith, F. A. (Yellow Pine), 30th & Spruce
§Souder, E. A. & Co. (Pine & Cypress), Girard Bldg.
§Spiegle, Geo. M. & Co. (Somerset c N. 18th
§Stokes Bros. Co., 30th, below Chestnut
*Strong, Jas. & Co. (Hemlock, Poplar, Oak, White Pine & Chestnut), Real Estate Trust Co. Bldg.
§Talley, Thos. J. (Piling, Hemlock, Pine, Spruce & Oak Bill Stuff), Land Title Bldg.
§Ternan & White, 2728 N Broad
§Thompson, Lewis & Co. (R. R. Ties & Posts), Broad c Spring Garden
§Vrooman, S. B. Co. (Ltd.) (Yellow Pine & Mahogany). 1133 Beach
§Warner, Geo., Drexel Bldg.
§Weitzel, P. Elmer & Bros., 3108 Gtn. av
§Wheeler, R. B. & Co., Crozer Bldg.
§Whitmer, Wm. & Sons (Inc.), (Hardwood, White Pine & Spruce), Girard Bldg.
§Williams, Alex. O., 534 Berks
§Williams, J. R. & Co., Arcade Bldg.
*Williams & Van Roden (Ash, Poplar & Oak), 1345 Arch
§Wistar Underhill, Real Estate Trust Co. bldg
Woddrop & Welch Wood Co., Betz bldg
PINE GROVE—*Boyer, Mahlon H. (Lumber & Fegeley, Morris (Saw Mill) Saw Mill)
PITTSBURG—§American Lumber & Mfg. Co. (Timbers Lumber, Glazed Factory Sash, Factory Mill Work, etc.), 209 9th
§Babcock, E. V. & Co. (Hemlock, White & Yellow Pine & Maple Flooring, Hardwood & Shingles), Frick Bldg.
§Curl, H. V. Lumber Co., Park bldg
Curtis & Yale Co. (Hardwood Flooring, Basswood Ceiling & Siding, Pine Dimensions, Shingles, etc.), Arrott bldg
*Flint, Erving & Storner (White & Yellow Pine, Oak, Poplar & Hemlock, White Pine Lath, Red Cedar, Pine Cypress & Hemlock Shingles), Farmers' Bank Bldg.
§Forest Lumber Co., Diamond Bank bldg
*Furnace Run Saw Mill & Lumber Co. (White Pine, Hardwood, Bridge Timbers, Car Stuff, Telegraph Poles & Street R. R. Ties), Curry bldg
§Gillespie, D. L. & Co. (Pitch Pine, etc.), 541 Wood
§Hastings, J. M. Lumber Co. (Yellow Pine). 541 Wood
§Interior Lumber Co., Keenan bldg
§Linehan Lumber Co., Farmers' Bank Bldg.
§McIlvain, J. B. & Co., House Bldg.
§Mead & Speer Co. (Wholesale Lumber, Lath, Shingles, R. R. Ties, Bridge Timbers, etc.), Park bldg
§Mitchell, W. I., 339 5th av
§Munhall, R. J. Lumber Co., S. 22d & Wharton
§Nicola Lumber Co. (Red Cedar Shingles, Gum, Cottonwood, Hardwoods, Maple Flooring, etc.), Farmers' Bank bldg
§Noble, John H., Union Bank bldg
§Satler, L. L. Lumber Co., Bessemer Bldg.
§Schuette, Wm. & Co. (Inc.), Machesney bldg
§Terhune, W. E. & Co. (White & Yellow Pine & Hemlock), House bldg
§Thompson, Dwight, House Bldg.
§West Virginia Lumber Co. (White Pine, Yellow Poplar, Oak & Chestnut), House bldg
Wheeler, J. R. & Co. (Pattern, Templet, Flask & Tank Lumber, Roofing & Furring Strips, Yellow Poplar for Carriage & Piano Mfrs.), Bergen bldg
§Willson Bros. Lumber, Lath & Shingles) Farmers' Bank Bldg
PITTSVILLE—Shepherd, Frank
POCOPSON—Denton, Joseph S. (Saw Mill)
POND HILL—Boyd, Morris (Saw Mill)
POTTSTOWN—Healey, J. A. & Bro.
Snyder, H. J.
POTTSVILLLE—Beecher & Barr (Mine Lumber, etc.)
Beecher & Boyer (Mine Timber)
READING—Anchor Bending Works (Saw Mill)
Buch Bros., 200 N. 6th
Central Lumber Co., 234 Walnut
*Lance, Geo. F. (Walnut, Cherry, Shingles, etc.), 3d c. Buttonwood
*Thalheimer, A. Mfg. Co., 141 Cedar
REXIS—*Vinton Lumber Co. (Ltd.), (Hemlock)
RICKETS—*Trexler-Terrell Lumber Co. (Hemlock, Spruce, etc.)
RIDGWAY—*Hyde, W. H. & Co.
*Hyde & Thayer
Murphy Dry Kiln Co. (Lumber)
Thayer, H. S.
ROCKWOOD—*Barron Bros.
Wolf, Penrose (White Oak, etc.)
ROYERSFORD—Bush Bros. (Planing Mills)
ST. CLAIR—*Reichley Bros. (Mine Timber)
ST. MARYS—*Kaul & Hall Lumber Co.
*Kaul & Hall Lumber Co.
*Portland Lumber Co.
SCRANTON—*Ansley Lumber Mfg. Co. (Shingles, Flooring, etc.), 801 Scranton
*Cherry River Boom & Lumber Co. (Spruce Hemlock & Hardwoods), Board of Trade bldg
§Davenport, John D. & Co., Board of Trade bldg
§Lackawanna Lumber Co. (Hemlock & Hardwood), Board of Trade Bldg.
§Newman, J. J. Lumber Co., Board of Trade Bldg.
§Price & Howarth, 1001 N. Wash'n av.
*Washburn, Williams & Co., 119 Meriden
SHAMOKIN—*Kulp Lumber Co.
*Shamokin Lumber & Mfg. Co.
SHEFFIELD—*Pennsylvania Lumber Co. (Lumber, Lath & Shingles)
SHIPPENSBURG—Burns, Harry (Saw Mill)
SOUDERTON—*Souder, Wm. (Saw Mill)
SPRING MILLS—*Finkel, A. N. (White Oak & Pine)
TAMAQUA—Zehner, Jacob (Saw Mill)
TEMPLETON—*Reddinger, S. G. & Sons
TIDIOUTE—*Hunter, L. L. (Est. of)
Stillman, J. A. (Saw Mill)
TIONESTA—*Foreman, H. M. (Lumber & Ties)
*Gaston, G. G. (Lumber & Saw Mill)
*Kelly, A. B. (Lumber)
*Landers & Wyman (Lumber)
*Robinson, G. W. & Son (Planing Mill)
TOWANDA—Ellenberger, S. B.
Ellenberger & Yeager
TYRONE—*Beyer, F. D. & Co. (Saw & Planing Mill)
UNIONTOWN—*Palmer & Semans Lumber Co. (Lumber, Lath & Shingles)
URSINA—*Davis, J. B. & Sons (White Oak, Poplar, etc.)
*Van Sickel, E. Co. (not inc.) (White Oak, etc.)
WARREN — *Rogers Lumber Co. (Hemlock, Pine, Hardwood Flooring, Mouldings, Lath, Shingles, House Finish, etc.)
§West, J. H. Lumber Co.
*Wetmore, L. D. Co.
WILLIAMSPORT—*Bowman, Forseman Co. (Hemlock, etc.)
*Breon Lumber Co. (Hardwood, Hemlock & White Pine Boxes, Crates, etc.)
*Brown, Clarke & Howe (Lumber, Lath,
*Central Penna. Lumber Co. Paling, etc.)
*Coleman, John (Hemlock, etc.)
Deemer, Elias & Co.
*Emery Lumber & Coal Co. (Hemlock,
*Hall, John L. Long, Large Bills)
*Kavanaugh, Daniel
*Righter, Joseph C. (White Pine & Lum-
*Sones, C. W. ber, etc.)
*Williamsport Planing Mill Co.
WOODBURY—Frederick, Adam (Saw Mill)
WYALUSING—*Welles, M. H. & G. H. Lumber Co.
YORK—*Billmeyer & Small Co. (Hemlock, White Pine & Oak)

## RHODE ISLAND.

PROVIDENCE—§Angell, H. M., 49 Westminster
*Crittenden Lumber Co., 32 Westminster
§Gage, L. H. Lumber Co. (Hardwood), 32 Westminster
§Kile & Morgan, 15 Westminster
*Potter, J. A. & Co. (Southern Pine, etc.), ft of Crary
Talbot Bros. Co. (Box Shooks & Box Boards)
WASHINGTON—Hopkins, Clinton (Saw Mill)

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## SOUTH CAROLINA.

ALCOLU—*Alderman, D. W. & Sons Co.
ALLENDALE—Bryan Bros. (Saw Mill)
BATESBURG—*Batesburg Lumber Co.
BELLS—Caldwell, T. H. (Saw Mill)
BOWYER—McCoy, A. E. (Saw Mill)
BUCKSPORT—*Richardson Cypress Lumber & Shingle Co.
CHAPLIN—Robinson, C. P. (Saw Mill)
CHARLESTON—§Anderson Lumber Co. (Lumber, Ties and Shingles)
*Barton, A. J. (Planing Mill, etc.)
*Burton, E. P. Lumber Co.
*Cook, W. P. & Co. (Ties, etc.)
*Halsey Lumber Co.
Simmons Benj. I. (Lumber, Timber, Shingles, Yellow Pine Lumber, etc.)
COTTAGEVILLE—Ackerman, C. K. & Co. (Saw Mill)
Ackerman, J. D. & Bro. (Saw Mill)
DOVESVILLE—*Massie Lumber Co.
Young, W. D. (Saw Mill)
EFFINGHAM—*Dorgan Lumber Co. (Saw Mill)
EHRHARDT—Ehrhardt, C. & Sons (Saw Mill)
ELLENTON—Savannah Valley Lumber Co (Saw Mill)
FERGUSON—*Santee River Cypress Lumber Co. (Cypress, Hardwoods, Ash, Gum, Cottonwood, Pine, Shingles, Lath, Mouldings, etc.)
GEORGETOWN—*Atlantic Coast Lumber Co.
*Gardner & Lacey Lumber Co.
GREENVILLE—*Mallard, E. G. & Co. (Yellow Pine)
HAMPTON—*Hampton & Branchville Ry. & Lumber Co.
HONEY HILL—Henderson, Wm. (Saw Mill)
KINGVILLE—Trumble, Edwin (Saw Mill)
LEESVILLE—BARR, C. D. (Saw Mill)
LORENA—Shiry, Geo. C. (Saw Mill)
LORIS—*Bryant, J. C. Co.
LUMBER—*Williams & McKeithan Lumber Co. (Lumber & Saw Mills)
McBEE—Ingram, J. D. (Shingle Mill)
McCLELLANVILLE—Leland, H. G. (Saw Mill)
McCOLL—McLaurin, W. B. (Saw Mill)
MARS BLUFF—Ranklin, W. L. Lumber Co. (Saw Mill)
PINEWOOD—Broughton, N. L. (Saw Mill)
PROSPERITY—*Hunter & Saner (Lumber & Saw Mill)
RIDGEVILLE—Thrower, D. E. (Saw Mill)
ROWESVILLE—Blake, J. H. (Saw Mill)
SENECA—Hamilton, W. O. (Saw Mill)
SPRINGFIELD—Rice & Holman (Saw Mill)
SWANSEA—Rast, W. B. (Saw Mill)
TROY—Banks & Cheatam
UNION—Bailey Lumber & Mfg. Co.
WEST UNION—Brown Lumber Co. (Saw Mill)
Shackley, J. C. (Saw Mill)

## TENNESSEE.

BIG SANDY—Rauscher, E. W. (Staves)
BRISTOL—*Bryan Lumber Co. (Hardwood)
*Morton, Lewis & Wiley Lbr. Co.
*Stone-Huling Lbr. Co.
§Tug River Lumber Co.
Wilkinson, Jas. A.
CHATTANOOGA—*Blair, F. W. (Poplar, Oak, Ash, etc.)
*Card, J. M. Lumber Co. (Hardwoods & Yellow Pine)
§Central Mfg. Co. (Band Sawed Poplar,
*Chattanooga Lumber Co. Pine)
*East Tennessee Lumber Mfg. Co.
*Loomis & Hart Mfg. Co. (Saw & Planing
*Snodgrass & Field. Mills)
CLIFTON—Crain Lumber Co.
COVINGTON—Shelton & Co.
CRANDULL—Faulkner Lumber Co.
DICKSON—*Brown, W. P. & Sons Lumber Co. (Poplar, Ash, Oak & Chestnut)
HARRIMAN—Dame Mantel Co. (Quartered Oak & Curly Birch, etc.)
JACKSON—*Coleman, W. H. Co. (Tight Barrel Circled Headings, etc.)
§Gardner, O. G. Lumber Co. (Inc.) (Hardwoods, Timbers, Dimension Stuff, etc.)
JOHNSON CITY—*Buck & Snodgrass Lumber Co. (Hardwood)
KNOXVILLE—*Michaels, T. M. (Saw Mill & Lumber)
*Philadelphia Veneer & Lumber Co. (Yellow Water Seasoned Poplar)
*Rose, D. M. & Co.
*Ross Lumber Co.
*Vestal Lumber & Mfg. Co. (Tennessee Red Cedar, Band Sawed)
LEWISBURG—*Houston & Liggett (Red Cedar Lumber, Taper Sawed Posts, Flooring, Telegraph & Telephone Poles)
LOUDON—Ward. A. W.
MEMPHIS—*Anderson-Tully Co. (Gum & Cottonwood Lumber)
*Bennett Hardwood Lumber Co. (Southern Hardwoods, Oak, Ash, Gum, etc.)
§Blanton-Thurman Co. (Yellow-Miss. Cypress), Randolph bldg
*Chickasaw Cooperage Co. (Cooperage Mate-
*Cole Mfg. Co., 27 Hernando rials, etc.)
Crenshaw & Cathey
*Crittenden Lumber Co.
*Darnell, R. J. (Inc.) (Hardwoods)
*Darnell-Love Lumber Co.
*Darnell-Taenzer Lumber Co. (Hardwoods)
*Delta Box Mfg. Co. (Gum, etc.)
*Dickson, J. W. Co. (Oak, Ash, Gum, Cottonwoods, etc.), Wolf River & I. C. R. R. Bridge
*Friedel, P. R. & Co. (Long Leaf Yellow Pine & Oak)
§Gage, L. H. Lumber Co., So. Ex. bldg
§Gladden, C. S.
§Goodlander-Robertson Lumber Co. (Southern, All Kinds)
*Holmes, J. A. Lumber Co., I. C. R. R. n
Jordan, J. P. & Co., 358 2d Randolph rd
*Lamb-Fish Lumber Co. (Band Sawed Oak, Gum, Cypress, etc.)
§Major, S. C. Lumber Co. (Southern Hardwoods)
*Memphis Hardwood Flooring Co. (Flooring), Memphis, Tenn.
Memphis Stave Mfg. Co. (Slack Barrel Staves)
§Meredith, J. P. Cedar Co. (Red Cedar, Piling, Poles & Posts), Equitable bldg
*Moore & McFerren (Cottonwood & Gum)
*Nolan Bros. Lumber Co. (Oak Wagon Stock Clear Green, Satin Walnut, Box Boards, etc.)
*Russe & Burgess (Hardwood, Plain & Quartered Oak, Satin Walnut, Poplar, Tupelo, Gum, Bay Poplar), Randolph rd & I. C. R. R.
§Smith, W. E. Lumber Co. (Hardwood), 1406 Tenn. Trust bldg
*Sondheimer, E. Co. (Gum, Cypress, Cottonwood, Ash, Elm, Poplar, Sycamore, etc.)
§Stark, Jas. E. & Co. (Plain & Quarter Sawed White & Red Oak, etc.)
Tennessee Lumber Co., 41 Madison
*Three States Lumber Co. (Hardwood), 1406 Tenn. Trust bldg
*Thompson, Albert N. & Co. (Gum & Southern Hardwoods)
*Thompson, J. W. Lumber Co. (Hardwood), Oak, Ash, Poplar, Cypress, etc.), Randolph rd & I. C. R. R.
*Williams & Co. (Poplar & Oak), 371 2d
NASHVILLE—*Davidson, Hicks & Greene Co.
*Hayes, A. L. Co. (Lumber & Tight Barrel Staves, etc.)
*Indiana Lumber Co. (Hardwood)
*Lieberman, Loveman & O'Brien
*Love, Boyd & Co. (Oak, Ash, Poplar, Chestnut, Sycamore, Hickory, Rough & Dressed)
*Nashville Tie & Cedar Co. (Cross Ties & Cedar Piling)
*Nashville Hardwood Flooring Co.
*Prewitt, Spurr & Co. (Hardwood)
*Ransom, John B. & Co. (Rough & Dressed Red Cedar, Yellow Poplar, Walnut, Ash, Oak & Red Cedar Flooring)
NEW RIVER—*New River Lumber Co. (Hardwood)
SOUTH PITTSBURG—Haskew Lumber Co. (Saw Mill)
SPARTA—*Tennessee Stave & Lumber Co.
TIGER TAIL—Tiger Tail Mill & Land Co. (Cottonwood, Poplar, Gum & Oak)
WAVERLY—*Lucas Land & Lumber Co. (Lumber & Planing Mill)

## TEXAS.

AVINGER—Rhyne, A. M. & Co. (Saw Mill)
BEAUMONT—*Industrial Lumber Co. (L. L. Yellow Pine)
*Keith Lumber Co. (Yellow Pine)
*Nona Mills Co. (Yellow Pine)
Sabine Tram Co. (Yellow Pine)
CALL—Kirby Lumber Co.
CAMDEN—*Carter. W. T. & Bro. (Yellow Pine)
DALLAS—*Clark & Boise Lumber Co. (Yellow Pine)
*Conway. Craig Lumber Co. (Lumber & Shingles)
*Craven Lumber Co. (Yellow Pine Lumber & Cypress Shingles)
*Godley, R. B. Lumber Co.
§O'Neil, W. H.
DIBOLL—*Southern Pine Lumber Co. (Yellow Pine)
ELMINA—*Walker County Lumber Co. (Yellow Pine)
FORT WORTH—§Cowley-Foster Lumber Co.
*Ford & Isbell Lumber Co.
§Reynolds-Hanna Lumber Co.
GALVESTON—*Miller & Vidor Lumber Co. (Yellow Pine)
*Moore & Goodman (Lumber, Lath & Shingles)
§Sachs, Hugo (Yellow Pine, Cypress Lumber & Shingles)
§Wilson, D. M. & Co. (Piling & R. R. Material)
GILMER—*Commercial Lumber Co. (Yellow Pine, Lumber & Shingles)
GROVETON—*Trinity County Lumber Co. (Yellow Pine)
HAMPTON—*Fleming, J. B. Lumber Co.
(Band Sawed, L. L. Yellow Pine)
HOUSTON—*Athens Lumber Co.
*Attoyac River Lumber Co.
*Bender, C. & Sons
*Bennett, Alf. Lumber Co.
§Big Tree Lumber Co. (Yellow Pine Lumber & Red Cedar Shingles)
*Bland & Fisher Lumber Co.
§Burkitt & Barnes (Lumber Ties & Timber)
*Bush Bros. Lumber & Milling Co.
*Cameron, Wm. & Co.
*Carter Lumber Co. (Yellow Pine)
*Carter, W. T. & Bro.
§Central Lumber Co. (L. L. Yellow Pine, La. Red Cypress, etc.)
*Clover Leaf Lumber Co.
*Continental Lumber & Tie Co. (Yellow Pine, Cypress, Shingles, etc.)
*Cummings, C. R. Export Co. (Exporters,
*Gebhart-Williams-Fenet Co. Hardwood)
*Gulf Coast Lumber Co.
§Harrell, Ed. H. Lumber Co. (L. L. Yellow Pine, La. & Cypress Lumber, Interior Fin-
*Harrisburg Lumber Co. ishings, etc.)
*Hawthorne Lumber Co.
*Hilgord Lumber Co.
*Hill, J. C. Lumber Co. (Lumber & Shingles)
*Jones-Hurt Lumber Co.
*Kirby Lumber Co.
*Lake Creek Lumber Co.
*Long-Bell Lumber Co.
*Menefee, L. B. Lumber Co.
*Newton Lumber Co.
*Norris, W. H. Lumber Co. (L. & S. Leal & Yellow Pine Lumber & "Gilbert's" Shingles)
*Orange Lumber Co. (Yellow Pine)
*Palmetto Lumber Co.
*Rice, J. S. & W. M. Lumber Co.
*Sabine Lumber Co.
*Smith, C. L. Lumber Co.
§Swinford, S. T. Co. (Yellow Pine)
*Texas-Oregon Timber Co.
*Texas & Louisiana Lumber Co. (Yellow Pine & Red Cypress Lumber, Lath, Pickets, Posts, Timbers, Ties, etc.)
*Thompson Bros. Lumber Co.
*Thompson-Tucker Lumber Co. (Yellow Pine)
*Thompson & Ford Lumber Co. (Long Leaf Yellow Pine)
*Trinity River Lumber Co. (L. & S. Leaf Pine, Lumber & "Gilbert's" Shingles)
*Vaughan Lumber Co.
*Ware, Wm. Lumber Co. (L. L. Pine Lumber, Interior Finish, Flooring, Fencing,
*West Lumber Co. etc.)
*Wier, R. W. Lumber Co.
JEFFERSON—*Torrans Mfg. Co. (Yellow Pine)
KELTYS—*Angelina County Lumber Co.
KENNARD—Louisiana & Texas Lumber Co.
LONGVIEW—*Brown, R. G. (Yellow Pine)
*Castleberry & Flewellen (Yellow Pine)
LODWICK—*Lodwick Lumber Co. (Yellow Pine)
LUFKIN—*Lufkin Land & Lumber Co. (Yellow Pine)
NACOGDOCHES—*Hayward Lumber Co. (Yellow Pine)
Nacogdoches Crate & Lumber Co.
OLIVE—*Olive-Sternenberg (Yellow Pine)
ORANGE—*Gilmer, A. (Est. of) (Yellow Pine)
*Lutcher & Moore Lumber Co. (Yellow Pine)
*Miller-Link Lumber Co.
*Morgan, Robt., Sr. (Yellow Pine)
*Orange Lumber Co. (Yellow Pine)
SAN ANTONIO—*Vaughn Lumber Co. (Yellow Pine)
TENAHA—Parker, H. C. & Co. (Saw Mill)
TEXARKANA—*Buchanan, Wm. (Yellow Pine)
*Southern Pine Lumber Co. (Yellow Pine)
TRINITY—§Peyton, John B.
*Thompson, J. M. Lumber Co.
VOTH—Keith Lumber Co. (Yellow Pine)
WAUKEGAN—*Keystone Mills Co. (Yellow Pine)
WESTVILLE—*West Lumber Co. (Yellow Pine)
WILLARD—*Thompson & Tucker Lumber Co. (Yellow Pine)

## UTAH.

PROVO—*Ward, E. J. & Sons (Lumber, Lath, Shingles, etc.)

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## VERMONT.

BARTON LANDING—*Chandler, F. L. Co.
*Skinner, French & Co.
BENSON—Fowler, J. M. (Saw Mill)
BETHEL—Weston, Ephr. M.
BRATTLEBORO—*Holden & Martin (Wood Mantels, Stair Finish, Boxes, Interior Finish)
Johnson, Chas. C. (Saw Mill)
BRISTOL—Latrop, Noah (Saw Mill)
BURLINGTON—*Booth, J. R. (Lumber & House Finish)
§Crane, W. & D. G. (also Packing Boxes)
Robinson-Edwards Lumber Co. (Pine & Hard wood, Lath, Shingles & Flooring)
*Shepard & Morse Lumber Co. (Canadian & Western Pine)
CHELSEA—Goodwin & Davis (Saw Mill)
CUTTINGSVILLE—Jones, D. G. (Saw Mill)
DANBY—Risdon, D. C. & W. I. (Saw Mill)
EAST ARLINGTON—Judson Mfg. Co.
EAST BARNET—Roy Bros. (Saw Mill)
EAST DUMMERSTON—Crosby, F. F. (Saw Mill)
EAST RANDOLPH—Camp, D. J. (Saw Mill)
ESSEX JUNCTION—Brownell, S. A. & Co. (Saw Mill)
FAIRLEE—Perkins, S. W. (Saw Mill)
FOREST DALE—Churchhill, Geo. H. (Saw Mill)
GLEN—Leonard, W. C. (Saw Mill)
GREEN RIVER—Stowe, Hy. S. (Saw Mill)
GROTON—Ricker Bros. (Saw Mill)
HARDWICK—Sawyer, C. M. (Saw Mill)
HARTFORD—Pease, Horace C.
ISLAND POND—*Fitzgerald Land & Lbr. Co.
JOHNSON—Parker & Stearns (Saw Mill)
LONDONDERRY—Wait, Ch. S. (Saw Mill)
MONTPELIER—Gisborne Co. (Saw Mill)
Richardson, Orville H. (Saw Mill)
MORETOWN—*Ward, H. O.
NORWICH—Sargent, E. P. (Saw Mill)
PEACHAM—Jennison, O. M. (Saw Mill)
PERU—*Hapgood, J. J. & Co.
RANDOLPH—Bass, B. G. (Saw Mill)
Marcott & Hayes
RAWSONVILLE—Bier, Fred D. (Saw Mill)
RIPTON—Huntley, W. S. (Saw Mill)
RUTLAND—*Bissell Bros.
Chaffies', F. Sons
SHARON—*Preston, A. B. (Shingles & Lbr.)
Sawyer, Otis C.
SOUTH BARTON—Willoughby Wood & Lumber Co.
SOUTH NEWFANE—Morse, J. E. (Saw Mill)
SWANTON—*Webster Lumber Co. (Basswood)
TOWNSHEND—Willard, Chas. H. (Saw Mill)
WAITSFIELD—Billings, Geo. N. (Saw Mill)
Moriarty, W. & D. (Saw Mill)
WARREN—Parker, Pliny (Saw Mill)
WASHINGTON—Huntington, Chas. W. (Saw Mill)
WEST BRATTLEBORO—Davis, Chas. H. (Plan-
Smith, Leslie (Planing Mill) ing Mill)
WEST DUMMERSTON—Taft, John (Saw & Shingle Mill)
WILLIAMSVILLE—Bingham, W. E. & Son
Merrifield, A. M. (Saw & Shingle Mill)
WINOOSKI—White, Robt. J.
WORCESTER—Camp, A. H. (Saw Mill)
Ladd, C. M. (Saw Mill)

## VIRGINIA.

ABINGDON—*Preston & Bradley
ACHILLES—Rowe, B. A. & Son (Saw Mill)
BELFIELD—*Peart, Nields & McCormick Co. N. C. Pine, Box Shooks, Flooring, etc.)
CHARLOTTESVILLE—*Charlottesville Lumber
*King Lumber Co. Co.
CLAREMONT—*Arrington, H. J. Co. (Hardwood)
DELAWARE—*Baker-Minter Lumber Co. (Thin Box Material & Cigar Box Lumber)
FRANKLIN—*Camp Mfg. Co. (N. C. Pine)
JARRATT—Monson Mfg. Co. (Staves, Lumber & Shingles, Flooring a Specialty)
*Truitt-Vincent Co. (Lumber & Box Shooks)
LYNCHBURG—§Adams-Monroe Mfg. Co. (Mill
§Massie & Pierce Work)
*Ward Lumber Co. (Yellow Pine & Hard-
NORFOLK—*Angola Lumber Co. wood)
Baylor & Cake (Saw & Planing Mills)
§Blake, Frank W.
§Briggs, G. S. & Co. (Air Dried, Edge Stocks, Box Grades, etc.)
§Bull, C. H. & Co. (N. C. Pine)
§Crockett Lumber & Pile Co.
§Dickson Lumber Co.
*Duke & Smith (N. C. & Georgia Heart Pine)
*Fosburgh Lumber Co. (Kiln Dried North Carolina Pine, Rough & Dressed)
§Freeman, E. B. (N. C. Pine Boards)
§Johnson, Charles R.
*Littleton Lumber Co. (N. C. Pine)
§McCullough, Frank W. (Large Timber, etc.)
§McKann, M. & Co. (Inc.)
§Norfolk Hardwood Co., 63 Haddington bldg
§Reed Bros. & Co. (Hardwood)
*Richmond Cedar Works
*Roanoke, R. R. & Lumber Co. (N. C. Pine)
§Robertson, W. W. & Co.
§Roper, John L. Lumber Co. (N. C. Pine, Flooring, Ceiling, etc.)
*Southern Pine Timber Co.
§Tilley, W. M. & Co. (Saw & Planing Mills)
§Trant, John H., Jr., Sanford bldg
§Virginia-Carolina Tie & Wood Co.
Watkins, E. A. & Bros. (Saw & Planing
*West Lumber Co. Mills)
§Wilson, Wood & Lumber Co.
PENNINGTON GAP—*Pennington Lumber Co. N. C. Pine)
PORTSMOUTH—§Hart, Jno. N. Lumber Co. (Saw & Planing Mill)
*Phillips & Mahoney (Saw & Planing Mill)
RICHMOND—§Ellington & Guy (Yellow & N. C. Pine), 200 S 9th
Francis, W. R. & Bros. (Saw & Planing Mill), 1206 Taylor
§Gunn, E. G., 2211 E Main
§Gunn, W. S. & Co., 1123 W Broad
Hardwicke, Chas. W. & Co. (Saw & Planing Mill)
Heppert, Jos. (Saw & Planing Mill), Graham c Catherine
*Montague Mfg. Co. (Saw & Planing Mill)
*Richmond Cedar Works (N-C Pine, Rough & Dressed, Band Sawed, Poplar, Cypress, Gum, etc.)
Richmond Wood Working Co. (Saw & Planing Mill), 14 N 7th
Siewers, Richard A. (Saw & Planing Mill), 604 W Canal
§Sitterding-Carneal-Davis Co. (Saw & Planing Mill), Lombardy c Moore
§Taliaferro & Co., 901 E Byrd
§Woodward & Son (Yellow & White Pine, Hardwood of All Kinds, etc.), 330 S 9th
SOUTH BOSTON—*Snow Lumber Co.
SUFFOLK—*Cramer, Alfred B. (N. C. Pine)
Gay Mfg. Co.
TEMPERANCEVILLE—Jones, J. H. (Saw Mill)
THURMAN—*Meyer, George (White Oak)
WALLACETON—*Norva Land & Lumber Co.
WEST POINT—Denmead Bros. (Saw Mill)
§Richardson, R. E. (Lumber)
WOODFORD—Bowie & Vaughan (Saw Mill)
WOODSTOCK—French, M. V. (Saw Mill)
Harris, I. H. (Saw Mill)
WYTHEVILLE—Crowgey, R. H. (Saw Mill)

## WASHINGTON.

ABERDEEN—*Aberdeen Lumber & Shingle Co. (Lumber & Shingles)
*Aberdeen Mfg. Co. (Planing Mill)
*American Mills Co. (Lumber & Shingles)
*Anderson & Middleton Lumber Co.
Burrows, C. E. Lumber Co. (Saw Mill)
*Western Lumber Co.
*Wilcox Shingle Co.
*Wilson Bros. & Co. (Saw & Planing Mill)
ACME—*Anderson, Nelson & Co. (Fir Lumber & Red Cedar Shingles)
ALOHA—*Aloha Lumber Co.
ANACORTES—Anacortes Lumber & Box Co.
*Fidalgo Mill Co. (Shingles, etc.)
*Vincent & Owen (Shingles, etc.)
ARLINGTON—Brown & Kunze
*Lincoln Shingle Co. (Shingles, etc.)
*Verd Cedar Co. (Shingles, etc.)
Williams, Chas.
BALLARD—McLaughlin-Taylor Co.
*Motor Shingle Co.
*Seattle Cedar Lumber Mfg. Co. (Red Cedar Lumber & Shingles)
*Stimson Mill Co. (Lbr., Lath & Shingles)
*Sobey Mfg. Co. (Red Cedar Shingles)
*Wiley-Schoemaker Co. (Shingles, etc.)
BELLINGHAM—*Bellingham Bay Lumber Co
*Bellingham Timber & Logging Co.
*De Can, D. H. (Shingles)
*Lake Whatcom Logging Co.
*Larson Lumber Co.
*Miller Bros. Shingle Mill Co.
Morrison Mill Co.
*Pancoast Shingle Co.
*Power, F. W. Co. (Shingles, etc.)
*Siemens Lumber Co.
*Standard Mfg. Co. (Shingles)
West Coast Timber Co.
Whatcom Fall Mills Co. (Saw Mill, etc.)
*Wood, E. K. Lumber Co.
BIG LAKE—*Day Lumber Co. (Saw & Shingle Mills)
*Kellogg Shingle Co. (Shingles, etc.)
BLAINE—Blaine Shingle Co.
Eclipse Shingle Co.
*Erie Mill Co. (Shingles)
*Jenkins, H. L. Lumber Co. (Shingles, etc.)
Modern Shingle Mill
BLOCKHOUSE—Shurtz & Sons (Saw Mill)
Woods Bros. (Saw Mill)
BOTHELL—Oakville Shingle Co. (Shingles)
*Co-Operative Shingle Co. (Shingles)
BRYANT—Chapman, John
Larson, J. V.
Stimson Mill Co.
BUCKLEY—Defiance Lumber Co.
*Page Lumber Co. (Lumber & Shingles)
*Valley Mill Co. (Lumber)
BUCODA—*Mutual Lumber Co. (Shingles, etc.)
BURLINGTON—*Shaw-Cooper Shingle Co. (Shingles, etc.)
CAPE HORN—*McCrosky & Sons Lumber Co., L. P.
CASTLE ROCK—*Robin & Son (Shingles)
CEDARHOME—*Cedarhome Mill (Saw & Shingle Mills)
CENTRALIA—*Centralia Shingle Mills
Foron Bros.
Lincoln Creek Lumber Co.
Lumber Mfrs. Agency (Fir, Spruce, Cedar Lumber & Shingles, Fir Railroad & Structural Timbers, Car Materials, Yard Stock, Finish, Flooring, Ceiling, Lath & Cedar Shingles)
CHATTAROY—Sexton, J. F. & Co.
CHEHALIS—Chehalis Shingle & Lumber Co. (Cedar Posts & Shingles, etc.)
CHESAW—Richter Bros.
CHRISTOPHER—Meredith Lumber Co.
CLEARBROOK—Clearbrook Lumber Co. (Saw, Shingle & Planing Mill)
Miller, M. H. & Sons Mill Co.
CLEAR LAKE—Clear Lake Lumber Co. (Fir Lumber & Upright Swan & Clear Red Cedar Shingles)
CLE ELUM—Miller & Short (Saw Mill)
COLFAX—*Potlatch Lumber Co. (Lumber & Planing Mill)
COLVILLE—Wisner & Co. (Saw Mill)
CONCONULLY—Bolin, W. C. (Saw Mill)
COSMOPOLIS—*Grays Harbor Commercial Co. (Spruce & Red Cedar Shingles, Fir Tanks, Crossties, Poles, Dressed Lumber for Interior Finish, Ceiling, Siding, Wainscoting, Mill Work, Box Shooks, Mixed Cars of Lumber & Shingles, etc.)
COUPEVILLE—*Island Mfg. Co. Saw & Shingle Mill)
CRESTON—Peasley, J. D. & Son (Saw Mill)
CUSTER—*Willett, M. J. (Shingles, etc.)
DEER PARK—Standard Lumber Co. (Lumber, Lath & Shingles)
DEMING—*Alaska Shingle Co. (Shingles)
Dedman, M. L.
*United Shingle Co. (Shingles)
DOTY—*Doty Lumber & Shingle Co.
DRYAD—*Leudinghaus Bros. (Saw Mill)
DUNCAN—Case, G. B.
DUNGENESS—Fitzgerald, Chas.
EDGECOMBE—Edgecombe Mill Co.
Hill-Wilson Shingle Co.
EDMONDS—Brady Shingle Co.
*Edmonds Shingle Co. (Shingles)
*Mowat Lumber Co. (Shingles, etc.)
*R. & A. Mill Co. (Shingles, etc.)
Weatherproof Shingle Co.
*Yost. A. M. & Sons (Lumber & Shingles)
EHRLICH—Pingrey-Day Milling Co.
ELK—Consolidated Lumber Co.
ELMA—Cloquallum Shingle Co.
Servis & Hillis Mill Co.
*Vance Lumber Co. (Saw Mill)
*White Star Lumber Co. (Saw Mill)
ENTIAT—Gray, Geo. H. & Son (Saw Mill)
ENUMCLAW—*White River Lumber Co. (Dropsiding, Ceiling, Finish Edge, Grain
ETNA—*Harvey Mill Co. Fir Flooring)
EVERETT—*Blackman, C. A. (Shingles)
Cavalero Mill Co.
*Clark-Nickerson Lumber Co.
*Eclipse Mill Co. (Lumber & Shingles)
Everett Lumber Co.
*Everett Shingle Co. (Shingles)
*Ferry-Baker Lumber Co. (Fir Lumber & Lath, Red Cedar Beveled Siding, Shingles, etc.)
Hulbert Lumber Co. (Loggers)
*Hyena Mill Co. (Shingles, etc.)
*McWilliams & Henry
*Mitchell Lumber Co.
*Northwest Mfg. Co. (Shingles, etc.)
*Pacific Timber Co. (Fir Timbers, Deep Joist, Flooring, Ceiling, Cedar Siding & Shingles)
*Robinson Mfg. Co. (Shingles)
Seifert, H. O. & Co. (Shingle Mill)
*Weyerhauser Lumber Co. (R. R. Timbers, Car Materials, Flooring, Finish, Ceiling, Siding, Newels, Mouldings, Wagon Bottoms, etc.)
EVERSON—Erb & Swaschka
FAIRHAVEN—*Puget Sound Mills & Shingle Co. (Red Cedar Shingles & Lumber, Capacity 6,000,000 Shingles)
FALL CITY—*Fall City Lumber & Shingle
Falls Mills Co. Mill (Shingles)
FERNDALE—Clarkson Mill Co.
Nooksack River Mill Co. (Shingles)
FLORENCE—*Hals, Jno. (Shingles)
GATE—*Gate City Lumber Co.

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GETCHELL—*Eggert, E. (Shingles)
*Springfield Shingle Co.
GOLDBAR — *Goldbar Lumber Co. (Saw &
GOLDENDALE—Klatt, W. C. Planing Mill)
Klickitat Pine Lumber Co.
GRAND MOUND—Boyer, M. L.
GRANITE FALLS—Chappell & Spithill Shingle Co. (Shingles)
*Swartz, Joseph (Shingles)
HADLOCK—*Washington Mill Co.
HAMILTON—*Eagle Shingle Co. (Shingles)
*Lyman Lumber Co.
HARRINGTON—*Harrington Milling Co.
HARTFORD—*Hartford Shingle Co. (Shingles)
Hartford Mfg. Co.
*Heath Shingle Co. (Shingles, etc.)
Rucker Bros.
HOCKINSON—Rawson, A. (Saw Mill)
HOQUIAM—Coats Shingle Co.
*Endressen, C. & Son (Shingles)
*Lytle Logging & Mercantile Co. (Logging)
*Hoquiam Lumber & Shingle Co.
*National Lumber & Box Co. ("Grays Harbor" Fir & Spruce; mixed cars of Lumber, Mouldings, Columns & Lath)
*Northwestern Lumber Co. (Spruce, Fir & Cedar Shingles
*Polson Logging Co. (Loggers)
*Wood, E. K. Lumber Co. (Fir, Spruce & Box Mfrs.)
INDEX—Index Log & Lumber Co. (Saw Mill)
ISSAQUA—Eastlake & Trandum (Saw Mill)
*High Point Mill Co. (Shingles, etc.)
Vaughn, W. E. & Son (Saw & Planing
KALAMA—Kalama Lumber Co. Mill)
KELSO—Coweeman Driving & Rafting Co.
Metcalf Shingle Co. (Shingles) (Loggers)
Washington Red Cedar Mill Co.
KIRTLAND—*Kirtland Shingle Co.
KNAPPTON—*Simpson Lumber Co.
LACENTER—Brothers, James W.
Oakdale Lumber Co.
*Martin, Victor
*Wilson, Thos.
LACEY—*Russell, Thos. N. (Shingles)
*Union Lumber Co.
LAKESIDE—Sullins, A. L.
LAWRENCE—Bridge Shingle Co.
*Pinkney & Hoff
LEWISVILLE—Baccus & Blaker
LITTELL—*Wisconsin Lumber Co.
LITTLE FALLS—*Stillwater Lumber Co.
LITTLE ROCK—Viora Shingle Co.
LOOKOUT—Butters & McLeod
LOON LAKE—Holland-Horr Mill Co.
LYMAN—*Lyman Lumber Co.
Skagit Mill Co.
LYNDEN—*Heaton Bros. Co. (Shingles, etc.)
McCORMICK—*McCormick Lumber Co. (Fir Yard Stocks, Flooring, Ceiling, Dimension, Long Timbers, Cross Arms & Shingles)
McMURRAY—Bass Lumber & Shingle Co.
MACHIAS—Bolcom-Bartlett Mill Co. (Shingles)
*McCullough, James (Shingles)
MALTBY—*Gray, A. V. (Saw & Shingle Mill)
MAPLE VALLEY—Smith & Christman Co. (Fir Lumber & Red Cedar Shingles)
MARKHAM—*Markham Shingle Co.
MARYSVILLE—*Ebey Mill Co. (Shingles)
Harrington Shingle Co.
*Marysville Mill Co.
*Smith Mfg. Co. (Shingles)
Stimson Mill Co.
MILAN—*Spokane Lumber Co.
MONOHAN—*Allen & Nelson Mill Co. (Inc.), (Saw Mill, Lumber Mfrs., Piling, Loggers, Fir & Hemlock)
MONROE—Johnson, John (Saw Mill)
*Monroe Mill Co. (Shingles, etc.)
Wagner & Wilson
MONTBORNE—Nelson & Neal Lbr. Co.
MONTESANO—*Bishop, E. K. Mill Co.
Clemens, Chas. H. (Loggers)
*Liverson Lumber & Shingle Co. (Lumber &
*Musser, Wm. Lumber Co. Shingles)
Wynoochee Lumber & Shingle Co.
MOUNTAINVIEW—*Lopas, J. & E. (Shingles)
MOUNT VERNON—*Cedardale Lumber Co.
*Little Mountain Shingle Co. (Shingles, etc.)
NAPAVINE—Dittmar & Springsteen Lumber
*Hawkins, H. A. (Fir) Co
Napavine Lumber Co.
Pitcher, H. (Saw Mill)
*Somersville Bros.
NOOKSACK—*Gillies Mill & Mfg. Co.
NORMAN—*Lauderdale, R. A. (Shingles)
NORTH BEND—Tanner, L. B.
OCOSTA—Markham Shingle Co.
OLYMPIA—*Olympia Door Co. (Shingles, etc.)
*Olympia Lumber Co. (Shingles)
*Richardson, Harvey G. (Shingles)
ORILLA—*Orilla Lumber Co.
OSO—Hydraulic Power Mill Co.
OSTRANDER—Ostrander R'y & Timber Co.
PE ELL—*Yeomans Lumber Co.
PILCHUCK—*Parker, J. H.
POMEROY—*Potlatch Lumber Co. (Lumber & Planing Mill)
PORT ANGELES—*Eacreet Bros. (Shingles)
*Filion Mill & Lumber Co.
PORT BLAKELEY—*Port Blakeley Mill Co. (Telegraph Arms, Lumber, etc.)
*Walworth & Neville Mfg. Co. (Lumber & Planing Mill)
PORT CRESCENT—Puget Sound Mills & Timber Co.
PORT DISCOVERY—Lindstrom-Fisher Shin-
PORT GAMBLE—Pope & Talbot gle Co.
*Puget Mill Co.
PRAIRIE—*Cain, D. J. & Co. (Shingles)
*Hoyt, J. M. & Co. (Shingles)
PRESTON—Preston Mill Co. (Red Cedar Fir & Spruce Lumber & Red Cedar Shingles)
PUYALLUP—*Morse, F. W. Mfg. Co.
RAINIER—Burnam, H. A.
RAYMOND—*Willapo Lumber Co. (Shingles, etc.)
REDMOND—*Redmond Lumber Co. (Shingles)
SCOTIA—Graham, Chas.
SEATTLE — *Arrow Lumber & Shingle Co. (Shingles, etc.)
*Atlas Lumber & Shingle Co. (Fir, Red Cedar Lumber & Shingles), Alaska bldg
*Day-Wellwitz Lumber Co.
*Bennett, J. S. Lumber Co. (Shingles, etc.)
*Bolcom, H. C. Lumber Co. (Red Cedar Shingles), Alaska Bldg.
Brace & Hergert Mill Co. (Saw Mills)
*Bryant Lumber & Shingle Mill Co. (Lumber & Shingles)
*Carstens & Earles (Inc.) (Lumber & Shingles)
*Commercial Cedar Co. (Lumber & Shingles)
*Great Western Lumber Co. (Shingles, etc.)
§Herron Co. (R. R. Timbers, Fir & Car Materials)
*Hogue, Hugh W. Co. (Lumber, Shingles & Timber)
*Lake Washington Mill Co. (Fir Lumber, Shingles, Laths, Turned Posts, Picket & Scroll Work)
§Moran Co. (Spruce, Cedar, Lumber, Spars & Piles)
*Menz, R. J. Lumber Co. ("Buckeye," Red Cedar Shingles)
*Newell Shingle Co., Bradford & 7th av. S (Saw & Planing Mills & Shingles)
*Nichols, C. H. Lumber Co. (White Pine)
*Northwest Lumber & Shingle Co. (Shin-
*Ohio Mill Co. (Shingles, etc.) gles, etc.)
*Old Oregon Mills (Shingles, etc.)
*Pacific Fir Co. (Timber, Piling, Ties, Red Cedar, Shingles, etc.)
*Parker-Bell Lumber Co. (Fir, Cedar Lumber, Red Cedar Lumber, Dimensions &
*Pinkham Lumber Co. Timbers)
*Reliance Lumber Co.
*Roy & Roy Mill Co. (Fir, Spruce & Red Cedar Lumber & Shingles)
*Schwager & Nettleton (Inc.) ("Fir, Cedar, Spruce, Idaho White Pine, Red Cedar Shingles)
*Seattle Cedar Lumber Co. (Siding, Moulding, Columns, Newells & Shingles, etc.)
*Seattle Lumber Co. (Fir Lumber, Lath & Red Cedar Shingles)
*Shepard-Trail Co. (Red Cedar, Spruce, Fir, Cedar Shingles, etc.)
*Sound Lumber Co. (Pacific Coast Lumber & Shingles)
*Standard Lumber & Shingle Co.
*Stetson & Post Lumber Co. (Saw Mills)
*Stimson Mill Co. (Lumber, Shingles & Saw Mills)
*Tyee Lumber Co. (Pacific Coast Lumber & Shingles)
*United States Lumber Co. ("Sauk Valley" Soft Fir, Shingles, etc.)
*United States Lumber Co. (Shingles, etc.)
*Wilson, Robert S. (Lumber & Red Cedar Shingles)
SEDRO WOOLLEY—*Clark & Lennon (Shingles)
*Grand Rapids Shingle Co. (Shingles, etc.)
*Green Shingle Co. (Shingles & Loggers)
*Shrewsbury, H. H.
SEGUIN—*Seguin Shingle & Lumber Co.
SHELTON—*Hunter-Eaton Co.
*Simpson Logging Co.
*Western Washington Logging Co.
SHERLOCK—*Card, A. L. (Shingles)
SILVER BEACH—*Jerns, N. (Shingles)
Matson & Anderson
*Silver Beach Shingle Co.
SILVER LAKE—*Barnes, F. G. (Shingles)
SKYKOMISH—Skykomish Lumber Co.
SNOHOMISH—Advance Shingle Co.
*Ford-Shaw Lumber Co. (Shingles, etc.)
Morgan Bros. Co. (Saw Mill)
*Nenkirchen Bros. (Shingles, etc.)
Snohomish Lumber Co.
*Williams T. H. & Co. (Shingles)
*Wood & Iverson (Shingles)
SNOQUALMIE—Gove, G. W.
SOUTH BEND—Butz & Son, F. J.
*Cole Shingle Co.
*Columbia Box & Lumber Co.
*Kleeb Lumber Co. (Fir & Spruce Lumber, Fir Flooring, Ceiling, Stepping Fir Yard
*South Bend Mills & Timber Co. Shooks)
*Willapa Logging Co.
SOUTH PRAIRIE—Lucas Lumber Co. (Saw Mill)
*Naylor Lumber Co. (Shingles, etc.)
SPOKANE—*Buckeye Lumber Co.
*Day-Wellwitz Lumber Co.
*Day-Luellwitz Lumber Co. (Western White Pins, Factory Plank, Fir, Cedar & Spruce Lumber, Red Cedar Shingles, Tim-
§Holland-Horr Mill Co. bers, all sizes)
*McGoldrick Lumber Co. (Western Soft Pine, Idaho White Pine Lumber & Lath)
*Musser, Wm. Lumber & Mfg. Co. (Western White Pine Siding, Finish, Factory Plank, Mouldings & Box Shooks)
Robbins, H. G.
*Spokane Lumber Co.
*Stack-Gibbs Lumber Co.
*Yellow Pine Lumber Co.
STANWOOD—Becker Shingle Co.
Kent Shingle Co.
*Stanwood Lumber Co., (Shingles, etc.)
STARTUP—*Wallace Lumber & Mfg. Co.
STELLA—*Snider & Sons (Shingles)
SUMMIT—McDonald, R. R.
*Smith, I. J. (Shingles)
SUMAS—*Gillis Mill & Mfg. Co. (Lumber)
*Sumas Lumber Co. (Shingles, etc.)
TACOMA—*Atlas Lumber & Shingle Co. (Lumber & Shingles). See Seattle
*Big Creek Shingle Co. (Shingles, etc.)
*Bismark Mill Co.
*Danaher Lumber Co.
*Defiance Lumber Co.
*Dempsey Lumber Co. (Timber & Shingles)
*Far West Lumber Co.
*Foster Lumber Co. (Fir Lumber)
*Hague Box & Lumber Co.
Hill-Wilson Shingle Co. (Shingles, etc.)
*Howell-Hill Mill Co. (Shingles, etc.)
*Kanaskat Lumber & Shingle Co. (Lumber & Shingles)
*Lindstrom-Handforth Lumber Co.
*Lucas Lumber Co.
McIntyre & Kubach Co. (Shingles, etc.)
*McNeeley, E. J. & Co. (Lumber & Shin-
McPhee & McGinnity Co. gles)
*Manley Moore Lumber Co.
*Metcalf Shingle Co. (Shingles, etc.)
*Mineral Lake Lumber Co. (Shingles, etc.)
*Nebraska Bridge Supply & Lumber Co.
*Onn Lumber & Shingle Co. (Lumber & Shingles)
*Pacific National Lumber Co. (Shingles,
*Pacific Shingle Co. (Shingles, etc.) etc.)
*Pacific States Lumber Co.
*Pittsburg Shingle Co. (Shingles, etc.)
*Puget Sound Lumber Co.
*Rainier Mill Co. (Shingles, etc.)
*Raze Lumber Co.
*St. Paul & Tacoma Lumber Co. (Lumber, Ship & Bridge Timbers, Shingles, Lath,
*Savage Bros. Spars, Piling, etc.)
*Scott & Howe.
*Smith, M. R. Shingle Co. (Shingles, etc.)
*South Tacoma Mill Co. (Saw Mills, etc.)
*Tacoma Fir Door Co.
*Tacoma Mill Co. (Douglas Fir, Oregon Pine, Plank Timbers, Ship Plank, Flooring, Rustic Ceiling, Lath, Pickets, Staves, Spars, Piling, Shingles, etc.)
*Union Lumber Co.
*Washington Mfg. Co.
§West Coast Shingle Co. (Shingles, etc.)
*Wheeler, Osgood Co. (Cedar & Fir Sash,
*Wheeler-Reese Lumber Co. Doors, etc.)
THORNWOOD—Cain, D. J. & Co. (Saw & Planing Mill)
TOLEDO—Badger Lumber Co.
TOLT—Tolt Mill Co.
UTSALADDY—*Puget Mill Co.
VALLEY—Dean Lumber & Fuel Co.
*Kulzer, Jno. G.
VANCOUVER—Du Bois Lumber Co.
*Pittock-Leadbetter Lumber Co. (Saw Mill)
WALLA WALLA—*Whitehouse-Crawford Co.
WENATCHEE—*Wenatchee Lumber Co.
WEST BRANCH—Washington Mill Co. (Saw Mill)
WICKERSHAM—*Reichert, D. J., Lumber & Shingle Co.
*Wickersham Shingle Co.
WINLOCK—Veness, J. A. Lumber Co. (Saw Mill)
Cedar Lumber, Piling & Poles, Vertical Grain Flooring, Ties, Poles & Posts,
*O'Connell Lumber Co. (Wash'n Fir & Poles & Piling up to 100 ft. in length)

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WOLVILLE—*Walworth Lumber Co.
WOODENVILLE—*Grace Mill Co. (Shingles)
NORTH GAKIMA—*Cascade Lumber Co. (Kiln Dried Western Pine, Lap Siding, Finish, etc.)

## WEST VIRGINIA.

ASBURY—*Alderson, S. I. (Lumber)
BECKLEY—Calloway, C. M. (Saw Mill)
BERKLEY SPRINGS—Crossfield, Wm. (Saw Mill)
BLUEFIELD—*Georgia Lumber Co. (Saw & Planing Mill)
BUCKHANNON—*Alton Lumber Co. (Hardwood)
Henry, J. L. Lumber Co.
*Stockert, G. F. & Son
*Stockert, T. L.
CAMDEN ON GAULEY—*Cherry River Boom & Lumber Co. (Hardwood)
CENTRAL CITY—Callaway, C. M. Lumber Co.
CHARLESTON—Boone Timber Co.
*Charleston Lumber Co. (Saw & Planing Mill)
*Courtney, D. G. (Poplar & Oak Lumber, R. R. Ties, Bill Stuff Light Cooperage Stock)
*Donaldson Lumber Co.
Yellow Pine Lumber Co.
ELKINS—Cheat River Lumber Co.
Elkins Pail & Lumber Co.
Wildell Lumber Co.
GLEN JEAN—Hogg Lumber Co.
HAMBLETON—*Elk Lick Lumber Co.
*Otter Creek Boom & Lumber Co. (Hemlock)
LOCK SEVEN—*Mohler Lumber Co. (Poplar, Oak, Walnut & Ash)
MORGANTOWN—Athens Lumber Co.
Rightmire-Shriver Lumber Co.
NICOLETTE—*Nicolette Lumber Co.
PARKERSBURG—Citizens' Lumber Co.
*Everglade Cypress Lumber Co.
*Jackson, J. M., Lumber Co.
Parkersburg Mill Co.
Wilson, H. S. & Son
Withers-Van Devender Co.
PICKENS—*Holly Lumber Co.
RALEIGH—*Raleigh Lumber Co. (Cut Timber)
RICHWOOD—Cherry River Boom & Lumber Co.
ST. ALBANS—*Bowman Lumber Co.
SATTES—*Knight Lumber Co. (Yellow Pine)
SUTTON—Bright, Amos
Waggy, Henry
UPPERTRACT—Dahmer, C. E. & Bro. (Saw
WELCH—*Sudduth, E. H. Lumber Co. Mill)
WESTON—*Hinkle, S. & Co.
Weston Lumber Co.
WHITE SULPHUR SPRINGS—*Huddleston, A. E. (White Pine, Saw & Planing Mill)
WILLIAMSON—Harris, W. A. Lumber Co. (Saw & Planing Mill)

## WISCONSIN.

APPLETON—Appleton Lumber & Fuel Co.
*Fountain Lumber Co. (Saw & Shingle Mill)
§Jones, G. W. Lumber Co. (Hardwood)
ASHLAND—*Lake Superior Lumber & Box Co.
*Schroeder, John Lumber Co.
§Scott-Taylor Co.
ATHENS—*Athens Mfg. Co.
*Braun Bros. & Co. (Lumber & Staves)
*Rietbrock Land & Lumber Co.
BAILEYS HARBOR—*Pruter, Louis (Shingles)
BARRON—Interstate Lumber Co.
BAYFIELD—Bayfield Mill Co. (Saw Mill)
Boutin, Frank, Sr. (Logging, etc.)
*Wachsmith Lumber Co.
BELOIT—*Beloit Lumber Co.
BERLIN—Allen, C. W., Lumber Co.
*Wilbur Lumber Co.
BIRNAMWOOD—Andrews & Roepke Lumber Co. (Saw Mill)
BLANCHARDVILLE—Blanchardville Lbr. Co.
BRILLION—Brillion Lumber Co.
BRUCE—*Beldenville Lumber Co. (Hardwood & CABLE—Rogan Bros. (Saw Mill) Veneer)
CARTER—*Miner Bros.
CAZENOVIA—Bohn, E. A. (Saw Mill)
CEDERBURG—*Hilgen Mfg. Co. (Builders' Mill Work)
CHIPPEWA FALLS—Chippewa Lumber & Boom Co. (White Pine)
Stanley, F. G. & C. A. Co. (Saw Mill).
COLEMAN—*Bolles, E. E. & Co.
CRANDON—Carpenter Bros. (Saw Mill)
§Kieth & Hiles Lumber Co.
CUMBERLAND—*Beaver Dam Lumber Co.
DANCY—Altenberg & Stoddard (Saw Mill)
DRUMMOND—*Rust-Owen Lumber Co. (Cork, White Pine, Pattern, Box Materials, Beveled Siding & Factory Stock)
DUNBAR—*Girard Lumber Co. (Lumber, Lath, Shingles, Piling, Posts, Ties, etc.)
EAU CLAIRE—*Dells Lumber & Shingle Co.
*Northwestern Lumber Co. (White Pine & Shaw, Daniel Lumber Co. Basswood)
EDGERTON—§Heddles Lumber Co.
ELKHORN—*Elkhorn Lumber Co.
ELLSWORTH—Hines, Frank (Saw Mill)
McLeod, John & Sons (Saw Mill)
ELMHURST—Nelson, E. F. (Saw Mill)
*Wunderlach, George H.
FAIRCHILD—*Foster, N. C. Lumber Co.
FENWOOD—*Fenwood Lumber Co.
FOND DU LAC—*Moore & Galloway Lumber Co.
FORT ATKINSON—Wilcox Lumber Co.
*Zenger-Hoffman Lumber Co.
GALESVILLE—*Farrand, I. S.
GRAND RAPIDS—*Arpin Hardwood Lbr. Co. (Plain & Red Birch, Pine & Hemlock, Basswood, Siding, Ceiling & Hardwood Flooring)
*Badger Box & Lumber Co. (Resawed Lumber)
§Arpin, John Lumber Co.
§Kellogg Bros. Lumber Co.
*Pigeon River Lumber Co.
GREEN BAY—*Cleenermans Land & Lumber Co.
*Diamond Lumber Co.
*Northland Lumber Co. (Hard & Soft Lumber, Hemlock Lumber, Lath, Shingles & Posts)
*White Lake Lumber Co.
Valentine-Clark Co. (Cedar Posts, etc.)
GRESHAM—Morgan, O. E. (Saw Mill)
GURNEY—*Somers-Timm Lumber Co. (Hardwood & Hemlock)
HARTFORD—*Dennison, Liver & Coerper
HAYWARD—*North Wisconsin Lumber & Mfg. Co. (White Pine)
HAWKINS—*Ellinson Lumber Co.
HAWTHORNE—Bonnell, W. H. (Saw Mill)
*Duluth Log Co. (Shingles, Posts & Piles)
HAZELHURST—Yawkey, Bissell Lumber Co. (Box Shooks, Lumber & Egg Cases, Crates, etc.)
HORTONVILLE—Diestler Co. (Saw & Planing Mill)
HUDSON—*Central Lumber Co.
INDEPENDENCE—*Sprecher & Schafer
INGRAM—*Ingram Lumber Co.
IOLA—Wipf, J. & C.
JANESVILLE—*Thoroughgood & Co. (Cigar Box Lumber)
KENOSHA—*Montgomery Lumber Co.
KEWAUNEE—*Duvall, Jos. & Co.
KIEL—*Laun, J. B.
KIMBALL—*Kimball & Clark (Hemlock & Hardwood Lumber, White Cedar Shingles, Basswood & hemlock lath)
LAC DU FLAMBEAU—*Flambeau Lumber Co.
LA CROSSE—*Colman, C. L. Lumber Co. (Lumber, Shingles & Saw Mills)
*Segelke & Kohlhaus Mfg. Co. (Sash, Doors & Mill Work)
LADYSMITH—Corbett, Robt. Lumber Co.
LAFARGE—*Lafarge Lumber Co. (Saw Mill)
LOST CREEK—Harshman, F. L. (Saw Mill)
LOYAL—Christman, B. (Saw Mill)
Graves, A. A. (Saw Mill)
McMILLAN—*McMillan, B. F. & Bro. (Hemlock, Pine & Hardwood)
MADISON—*Brittingham & Hixon Lumber Co.
*Brittingham & Young Co. (Basswood, Birch, Soft Elm, Maple, White Pine)
MARINETTE—*Brown-Mitcheson Co.
*Hamilton & Merryman Co. (Lumber & White Pine & White Cedar, Shingles, Lath, etc.)
*Lieber & Noal Mfg. Co. (Shingles)
Ludington, N. Co. (White & Norway Pine, Lath & Shingles & Saw Mill)
*Merryman Mfg. Co. (Lumber, Lath & Shingles)
Sawyer-Goodman Co. (Pine, Hemlock, Hardwood, Lath, Shingles, Beveled Siding, Posts, etc.)
§Wright Bros. Co. (Cedar, Posts, Poles, Ties, Shingles, White Pine, etc.)
MASON—*White River Lumber Co.
MELLEN—*Foster, Latimer Lumber Co. (Saw
*Mellen Lumber Co. & Planing Mill)
MENOMONIE—*Wilson-Weber Lumber Co.
MERRILL—*Anson-Hixon Sash & Door Co. (Mouldings, Interior Finish)
*Gilkey & Anson Co. (Lumber, Lath, Shingles & Box Shooks)
*Langley & Alderson (Loggers)
*Smith Hardwood Lumber Co.
*Wright, H. W. Lumber Co.
MILWAUKEE—§Bergland, G. A., Matthews bldg
§Cooper, W. E. (Basswood Siding, Basswood, Hemlock, White Pine & Birch Lumber, Cedar Poles, Posts & Shingles)
Curtis & Yale Co. (Hardwood, Flooring, Basswood Ceiling & Siding, Pine Dimensions, Shingles, etc.), Loan & Trust bldg
Devere & Schloegel Lumber Co., 7th av c Park
Forster Lumber Co., 428 Grand Av Park
Hilty, M. Lumber Co. 1119 St. Paul av
§JOHNSON LUMBER CO. (White Pine, Pattern, Templet & Flask Stock) (See adv. index end of book)
§Landeck Lumber Co. (Hardwoods, Basswood, etc.), 120 Wisconsin
Milwaukee Lumber Co., 3002 Lisbon av
§Noble, Geo. P. (Pine & Hardwood), Wells bldg
*Rietbrock Land & Lbr. Co., 107 Wisconsin
*Schroeder, John Lumber Co., ft of Walnut
Simpson, E. B. & Co., 151 6th
§Steinman Lumber Co. (Lumber, Lath & Shingles), Park & 8th av
§Tegge Lumber Co. (Hardwood), 684 Park
§Tibbits-Cameron Lumber Co.
*Wilbur Lumber Co., Pabst bldg
MISHICOT—Rhodes, Aug. (Saw Mill)
Schimmel, N, & Co. (Saw Mill)
MORRIS—Buckstaff-Sprague Lumber Co.
MOSINEE—Mosinee Log, Land & Lumber Co. (Saw Mill, Loggers, etc.)
NEW GLARUS—*New Glarus Lumber Co.
NEW LONDON—*Hatten Lumber Co. (Hardwood)
NEW RICHMOND—*Willow River Lumber Co.
NORWALK—Walz, Geo. A. (Saw Mill)
OCONTO—*Holt Lumber Co. (Saw Mill)
ODANAH—*Stearns, J. S. Lumber Co. (White
ONTARIO—*Sandon, E. W. Pine)
OSHKOSH—*Campbell & Cameron Co. (Saw Mill)
*Gould Mfg. Co. (Wholesale Mfrs. of Mill Work)
*Hollister, Amos & Co. (Saw Mills)
*McMillen, R. Co. (Saw Mill & Wholesale Mfrs. of Mill Work)
*Morgan Co. (White Pine, Idaho Pine, Bass-Pine)
*Paine Lumber Co. (Saw Mill & Wholesale Mfrs. of Mill Work)
*Radford Bros. & Co. (Saw Mill & Wholesale Mfrs. of Mill Work)
*Wall-Spalding Lumber Co. (Wisconsin Hardwoods, Basswood, Hemlock & Cedar Shingles, etc.)
OWEN—*Owen, John S. Lumber Co. (Pine & Hardwood)
PELLA—*Grosskopff, Fred. A. (Saw Mill)
PESHTIGO—*Constine, C. & Son (Lumber & *Peshtigo Lumber Co. (Saw Mill) Cedar)
PHILIPS—*Davis, John R. Lumber Co. (Pine & Hemlock, Hardwood, etc.)
PLATTEVILLE—*Eastman, M. Lumber Co.
POLAR—Polar Mfg. Co. (Saw Mill)
Tyrell, G. & Son (Saw Mill)
RED CLIFF—*Red Cliff Lumber Co.
RHINELANDER—*Brown Bros. Lumber Co. (Hardwood, Pine & Hemlock & Boxing & Crating Lumber)
*Mason-Donaldson Lumber Co. (Hemlock &
*Queal, J. H. & Co. Hardwoods)
*Robbins Lumber Co. (Pine, Lumber, Lath & Stevens Lumber Co. (Saw Mill) Shingles)
RIB FALLS—*Baeseman, C. H.
RIB LAKE—Rib Lake Lumber Co.
RICE LAKE—*Rice Lake Lumber Co. (Lumber Mfrs., Pine, Hemlock & Hardwood, Crating & Box Lumber)
RICHLAND CENTER—*Krouskop, A. H. (Hardwood Lumber, Basswood, etc.)
SCANDINAVIA—Wrolstad, John O. (Saw Mill)
SCHLEISINGERVILLE—Kletti, John (Saw Mill)
SCHOFIELD—*Brooks & Ross Lumber Co. (Pine, Hemlock & Lath, Shingles, Pickets, etc.)
SEYMOUR—Miller & Piehl (Saw Mill)
SHEBOYGAN—Freyburg, C. B. (Lumber Co. Shingle Mills, etc.)
*Wisconsin Timber & Land Co.
SOLDIERS' GROVE—Peterson, A. (Saw & Planing Mill)
STANLEY—*Northwestern Lumber Co. (Birch Mouldings, Flooring & Interior Finish, Dry Hemlock Lumber)
STEVENS POINT—*Clifford Lumber Co.
*Stevens Point Box Co. (Box Shooks)
*Week, John, Lumber Co.
STILES—*Eldred, Anson Co.
STRATFORD—*Conner, R. Lumber Co.
STURGEON BAY—*Pankratz Lumber Co.
*Washburn, N. S. & Co.
SUPERIOR—*Rogers & Ruger Lumber Co.
*Rogers & Ruger Lumber Co.
SURING—Wagner, M. (Saw Mill)
TAUS—Boehm, Joseph (Lumber & Shingles)
TAVERA—Ellsworth, M. D. & Co. (Saw Mill)
THORP—Boardman, E. A. & Sons (Saw Mill)
Bobb, Peter E. & Co. (Saw Mill)
§Nye, Lusk & Hudson Co. (Pine & Hardwood)
TIGERTON—Badger Lumber Co. (Saw Mill)
*Tigerton Lumber Co. (Pine, Hemlock & Hardwood Lumber)
TOMAH—*Goodyear, C. A. Lumber Co.
TOMAHAWK—*Bradley Co. (Lumber, Lath &
TONY—Hein, John Co. (Saw Mill) Shingles)
WABENO—*Wabeno Lumber & Mfg. Co.
WASHBURN—*Akeley & Sprague
*Kenfield & Lomoreaux
WAUSAU—Barker & Stewart Lumber Co. (Saw & Planing Mill)
*Curtis & Yale Co. (Hardwood Flooring, Basswood, Ceiling & Siding, Pine Dimensions, Shingles, etc.)

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*Fenwood Lumber Co.
*Gooding, McCrea Lumber Co.
*Goodwillie Bros. (Resawed Lumber)
*Ingram Lumber Co.
*Mortenson, Jacob Lumber Co. (White & Norway)
*Mortenson & Stone
*Quaw Lumber Co.
*Shubring Lumber Co.
*Stewart, Alex. Lumber Co. (Lumber, Lath & Shingles)
*Thompson-Flieth Lumber Co.
*Wausau Box & Lumber Co. (Lumber & Box Shooks)
*Wisconsin Box Co. (Pine & Basswood Lbr. & Box Shooks)
*Wisconsin & Arkansas Lumber Co.
*Yawkey-Bissell Lumber Co.
WAUSAUKEE—*Bird & Wells Lumber Co. (White Pine & Cedar Lumber, Lath, Shingles, Ties, Poles & Posts)
Kuchenbecker Bros. (Saw Mill)
WAYSIDE—Haese, Aug. (Saw Mill)
WESTBORO—*Westboro Lumber Co.
WINNECONNE—*Winneconne Lumber Co.

## WYOMING.

EVANSTON—§Atkinson, J. L. (Saw Mill & Lumber)
SUNDANCE—Sluss, Ira B. (Saw Mill)

## 5840—Lumber Mfrs. & Wholesalers (Gum)

Askins & Dircks Lumber Co., Union City, Tenn.
Bacon-Nolan Hardware Co., Memphis, Tenn.
Bennett & Witte, Cincinnati, O.
Beyer, Knox & Co., Buffalo, N. Y.
Buffalo Hardwood Lumber Co., Buffalo, N. Y.
Cincinnati Cigar Box Lumber Co. (Gum Lumber Veneered), Cincinnati, O.
Cleveland Lumber & Mfg. Co., Cleveland, Tenn.
Cypress Lumber Co., Boston, Mass.
Darling, J. W. Lumber Co., Cincinnati, O.
Dillman Planing Mill Co., Kennett, Mo.
Dickson, J. W. Lumber Co., Memphis, Tenn.
Druke Hardwood Lumber Co., Main c Clinton, St. Louis, Mo.
Elias, G. & Bro., Buffalo, N. Y.
Empire Lumber Co., Buffalo, N. Y.
Farrin-Korn Lumber Co., Cincinnati, O.
Fee-Crayton Hardwood Lumber Co., Little Rock, Ark.
Himmelberger-Harrison Lumber Co. (Red Gum), Memphis, Tenn.
Hurd, O. P., Jr., Cairo, Ill. Morehouse, Mo.
Jones, G. W. Lumber Co., Appleton, Wis.
Kentucky Lumber Co., Cincinnati, O.
Lamb-Fish Lumber Co. (Band Sawed),
Little Lumber Co. (Red Gum), St. Louis, Mo.
Luehrmann, C. F. Hardwood Lumber Co., St. Louis, Mo.
McLean, Hugh Lumber Co., Buffalo, N. Y.
Miller, Anthony, Buffalo, N. Y.
Mock, W. S. (Lumber & Mfrs. Barrels, Black Gum), Hallwood, Va.
Mosberger-O'Reilly Lumber Co., 653 Morin av, St. Louis, Mo.
National Cooperage & Woodenware Co., Peoria, Ill., & 16 Exchange pl, New York
Norton Lumber Co., Richey, Miss.
Ocmulgee River Lumber Co., Lumber City, Ga.
Paepcke-Leicht Lumber Co., W Chicago av & N Sangamon, Chicago, Ill.
Perkins & Pettibone, Louisville, Ky.
Radina, L. W. & Co., Cincinnati, O.
Richmond Cedar Works, Richmond, Va.
Roper, John L. Lumber Co., Norfolk, Va.
Sanders, J. S. & J. B. (Green Gum), Islandton, S. C.
Scratcherd & Son, Buffalo, N. Y.
Smith, W. E. Lumber Co., Memphis, Tenn.
Sondheimer, E. Co., Chicago, Ill.
Standard Hardwood Lumber Co., Buffalo, N. Y.
Stewart, I. N. & Bro., Buffalo, N. Y.
Stone, T. B. Lumber Co., Cincinnati, O.
Sutherland-Innes Co., 29 B'way, New York
Taylor & Crate, Buffalo, N. Y.
Thomas & Proetz Lumber Co., St. Louis, Mo.
Thompson, James & Co., Memphis, Tenn.
Three States Lumber Co., Tennessee Trust bldg, Memphis, Tenn.
Waccamaw Lumber Co., Bolton, N. C.
Ward Lumber Co., Whiting, Mo.
Werner, Louis Saw Mill Co., St. Louis, Mo.
Wiborg & Hanna Co., Cleveland, O.
Yeager, Orson E., Buffalo, N. Y.

## 5841—Lumber (Pattern & Flash Stock)

**JOHNSON LUMBER CO., Milwaukee,** Wis. (See adv. index, end of book)
Thompson, Lewis & Co. (Mahogany), 18th & Cambria, Phila., Pa.
West Virginia Lumber Co. (Soft, Cork White Pine Pattern Lumber), Pittsburg, Pa.

## 5842—Lumber (Southern Hardwood)

Farrin, M. B. Lumber Co. ("Century" Oak Flooring, Poplar Siding, etc.), Cincinnati, Ohio
**WOOD-MOSAIC CO., Main Office & Factory, Rochester, N. Y.** (See adv. index & branch offices, end of book)

## 5843— Lumber (Templet)

**JOHNSON LUMBER CO., Milwaukee,** Wis. (See adv. index, end of book)

## 5844— Lye

Brookman Mfg. Co., 163 Wells, Chicago, Ill.
Champion Chemical Works, 208 Michigan, Chicago, Ill.
American Chemical Co., Cincinnati, O.
Auburn Soap & Chemical Co., Auburn, N. Y.
Eagle Lye Works, Milwaukee, Wis.
Hall, E. N., 396 B'way, New York
Mendelson's, A. Sons, Albany, N. Y.
Myers, E. Lye Co., St. Louis, Mo.
Penn Chemical Works ("Banner," Powdered & Crushed), Phila., Pa.
Penna Salt Mfg. Co., Philadelphia, Pa.
Philadelphia Lye & Chemical Works, Phila., Pa.
Schield, Wm. Mfg. Co., St. Louis, Mo.
Tomson, P. C. & Co., Philadelphia, Pa.

## 5845— Lyres (Music)

Moody, Geo. O. & Co. (For Marching Drums, Picolo Players), Canton, O.


# JOHNSON LUMBER COMPANY

## MILWAUKEE, WIS.

## White Pine Pattern and Templet Lumber

## Crating, Boxing, Flask Stock, etc.

**Write for Delivered Prices**


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## 5846— Macadam Plants

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## Macadam Roads

(See Contractors, General)

## 5847— Machetes

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

## 5848—Machine Parts (Finished)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Franklin, H. H. Mfg. Co. (Standard & Special, "Franklin" Metal Finished Castings), Syracuse, N. Y.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Imperial Brass Mfg. Co., 444 S Jefferson, St Louis, Mo.
Legler, Eilerman Co. (Finished Castings), Dayton, O.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
Norton Grinding Co. (& Grount to Order, Shafts, Rolls, Spindles, Piston Rods, Crankshafts, etc.), Worcester, Mass.
Richmond Forgings Corp'n, Belle Isle, Richmond, Va.

## 5849—Machine Parts (Hardened & Ground)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## Machine Screw Work

**(See Screw Machine Work)**

## 5850—Machine Shop Furniture

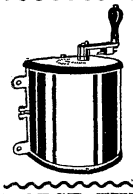
(See also Steel Factory Equipments)

**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

## 5851— Machine Tools

**(For Manufacturers of Machine Tools see the specific article; for Dealers, see Machinists' Tools & Supplies; also Machinery Dealers, New & Second-Hand)**

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)



Controllers and Starting Rheostats for all classes of motor driven machine tools. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
**VOELKNER & HARRY MANUFAC**turing Co. (Special, Designers of), 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

## 5852—Machine Work (for Automobiles)

**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## 5853—Machine Work (General Contract)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)

## Machinery

(For Dealers in Machinery, see Machinery Dealers, New & Second-Hand; also Machinists' Tools & Supplies)

Note.—For various kinds of Machinery Manufacturers see sub-classifications of this head following in their regular alphabetical order. See also Drills of various kinds; Lathes of various kinds; also Planers, various kinds; also Sugar Machinery; also Textile Machinery, etc.; also Compressors, Air; also Blowers; also Conveyors; also Cranes; also Dynamos & Motors; also Elevators; also Engines; also Locomotives; also Presses of various kinds; also Pumps. also Road Rollers of various kinds. For page numbers, see Index of Contents.

(See also Machinists & Founders)

## 5854— Abrading Machines

Clark & Mills Electric Co. (For Testing Road Making Materials), Cambridge, Mass.
International Instrument Co., 23 Church, Cambridge, Mass.

## 5855—Abrasive Metal Cutting Machines

Slack Mfg. Co., Springfield, Vt.

## 5856— Acid Cleaning Machines

Torrington Mfg. Co., Torrington, Conn.

## 5857— Adding Machines

(See also Calculating Machines; also Typewriters, Adding & Billing)

Adder Machine Co. ("Wales" Visible Listing & Adding), Wilkes-Barre, Pa.
Automatic Adding Machine Co. ("Gem" & "Automatic"), 332 B'way, New York
Barrett Adding Machine Co., Grand Rapids, Mich.
Brandt Cashier Co., 429 Dearborn, Chicago, Ill.
Brunsviga Calculating Machines ("Brunsviga" & "Burkhard"), Land Title bldg, Phila., Pa.
Burroughs Adding Machine Co., Detroit, Mich.
Comptograph Co., 1456 Dayton, Chicago, Ill.
Connecticut Computing Machine Co., New Haven, Conn.
Dalton Adding Machine Co. ("Dalton"), Poplar Bluff, Mo.
**Elliott-Fisher Co., 366 B'way, New York**
Felt & Tarrant Mfg. Co. (Comptometers, Adding, Billing), 1735 N Paulina, Chicago, Ill.
Hamburger, Felix ("Brumsviga" Computing Machines), 1 Union sq, New York
Locke, C. E. Mfg. Co., Mesilla, N. Mex.
Mechanical Accountant Co., Providence, R. I.
**Mercantile Adding Machine Co., Norwalk, Conn.**
Morschhauser, W. A. ("Millionaire"), 1 Madison av, New York
Morse, Herbert N. ("Calcumeter" Desk), Trenton, N. J.
**Muller, Oscar & Co. ("Saxonia"), 32 B'way, New York**
National Adding Machine Co., Cleveland, O.
Reuter, Carl H. ("Brunsviga" & "Burkhard"), Land Title bldg, Phila., Pa.
Standard Adding Machine Co., St. Louis, Mo.
**Universal Adding Machine Co. (Hand or Electric), St. Louis, Mo.**
Wales Adding Machine Co., Wilkes-Barre, Pa.

## 5858—Addressing & Mailing Machines

Addressing Machine Co., Buffalo, N. Y.
Addressograph Co., 901 W Van Buren, Chicago,
Boston Mailing Co. (Inc.), Boston, Mass. Ill.
Challenge Machinery Co., Grand Haven, Mich.
Elliott Co., 100 Purchase, Boston, Mass.
Molyneux Mailing Machine Co., Buffalo, N. Y.
**Montague Mailing Machine Co., Chattanooga, Tenn.**
Pollard-Alling Mfg. Co., 312 E 23d, New York
Rogers Addresser Co., 10 N Desplaines, Chicago, Ill.
Velox Mfg. Co. ("Velox"), 29 B'way, New York
Wallace & Co., 29 Murray, New York

## 5858a— Air Blasting Machines

**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)

## 5859— Air Drying Machinery

Waldron, Jno. C., New Brunswick, N. J.

## 5860—Aluminum Rolling Mill Machinery

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

## 5861—Amatite Paper Machines

Haberkamp, Wm. Machine Works, 424 N Wells, Chicago, Ill.

## 5862—Angle Iron Cutting Machines (Hand Power)

Kidder, J. F. Mfg. Co., Burlington, Vt.

## 5863—Angle Straightening Machines

Kane & Roach, Syracuse, N. Y.
Lewis Foundry & Machine Co., Coraopolis, Pa.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Gibbs-Brower Co. (Elliott), 261 B'way, New
Mesta Machine Co., Pittsburg, Pa. York
United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.
Youngstown Foundry & Machine Co., Youngstown, O.

## 5864—Angular & Rachet Drilling Machines

Millers Falls Co. (Hand), 28 Warren, New York

## 5865— Annealing Machines

(See Heating Machines; also Furnaces, Annealing & Case Hardening)

## 5866—Anvil, Vise & Drilling Machines (Combined)

Bonney Vise & Tool Works ("Gipsey"), Allentown, Pa.

## 5867—Apple Butter Machinery

**SPRAGUE CANNING MACHINERY** Co. (Hand & Power), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 5868—Apple Evaporating Machinery

Boutell Mfg. Co., Rochester, N. Y.

## 5869—Apple Grating Machines

**BOOMER & BOSCHERT PRESS CO., 379 W Water, Syracuse, N. Y. (See adv. index, end of book)**
Emeny, G. J. Co., Fulton, N. Y.
Hydraulic Press Co., Mount Gilead, O.
Kelso & Co., 559 W Quincy, Chicago, Ill.
Klotz Machine Co. ("Hero"), Sandusky, O.
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 5870—Apple Paring Machines

Boutell Mfg. Co. ("Rival," "Triumph," Hand & Power), Rochester, N. Y.
Hunt Mfg. Co. ("Pacific," Power & "Don" Hand), Sodus, N. Y.
Sinclair, Scott Co., Baltimore, Md.
**SPRAGUE CANNING MACHINERY** Co. (For Canners, Hand & Power), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 5871—Apple Quartering Machines

Boutell Mfg. Co. ("Pease"), Rochester, N. Y.

## 5872—Apple Slicing Machinery

Boutell Mfg. Co. ("Pease," "Rotary," "Rochester" Self Feed, "Perfect" Self Feed & "Sun"), Rochester, N. Y.
Hunt Mfg. Co. (Hand & Power), Sodus, N. Y.

## 5873—Armature Banding Machines

American General Engineering Co. ("A. G. E." Self-Contained), 253 B'way, New York
Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N. Y.
Device Improvement Co. ("Peerless," Combined Tension & Banding), Hanover Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Greaves, Klusman & Co., Cincinnati, O.
Ridlon, Frank Co., Boston, Mass.
Smith & Wallace, Woburn, Mass.
Wood, Chas. N. Co., Boston, Mass.

## 5874—Armature Coil Taping Machines

American General Engineering Co. ("A. G. E."), 253 B'way, New York
Griswold, Geo. M. Machine Co., New Haven, Conn.

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Oliver Electric & Mfg. Co. ("Precision"), St. Louis, Mo.
Ridlon, Frank Co., Boston, Mass.
Smith & Wallace, Woburn, Mass.

### 5875—Armature Disc Notching Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**Ferracute Machine Co., Bridgeton, N. J.**

### 5876—Armature & Field Coil Winding Machines

American General Engineering Co. (Armature & Field "A. G. E."), 253 B way. New York
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Device Improvement Co. ("Peerless"), Hanover, Pa.
Greaves, Klusman & Co., Cincinnati, O.
Oliver Electric & Mfg. Co. ("Precision"), St. Louis, Mo.
Ridlon, Frank Co., Boston, Mass.
Smith & Wallace, Woburn, Mass.

### Artesian Well Machinery

(See Well Drilling Machinery)

### 5877—Artificial Leather Making Machinery

Waldron, Jno. Co., New Brunswick, N. J.

### 5878— Ash Handling Machinery

(See Conveyors, Coal & Ash; also Coal & Ore Handling Machinery; also Coal Storage Plant Construction)

### 5879— Asphalt Machinery

(See also Mixers, Asphalt; also Heaters, Asphalt, Pitch & Tar)

**CUMMER, F. D. & SON CO., The Arcade, Cleveland, O.** (See adv. index, end of book)
Hetherington & Berner Co., Indianapolis, Ind.
Iroquois Iron Works, Buffalo, N. Y.
**LINK BELT CO., Hunting Park av & Reading Ry, Phila., Pa.** (See adv. index & branch offices, end of book)
Pioneer Machine Works (Jas. Hartley, Prop.), (Road Making), 75 Delevan, Brooklyn, N. Y.
**Warren Asphalt Paving Co. (For Asphalt Paving, etc.), Boston, Mass.**

### 5880— Auger Brick Machines

**American Clay Machinery Co., Bucyrus, O.**
**Bonnot Co., Canton, O.**
Chambers Bros. Co., 50th & Lancaster av, Phila., Pa.
Freese, E. M. & Co., Galion, O.
**Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.**
**Scott-Madden Iron Works Co., St. Louis, Mo.**
**Steele, J. C. & Son, Statesville, N. C.**

### 5881—Automatic Packaging Machines

Weyant, T. Romer ("Weyant"), Buffalo, N. Y.

### 5882—Automatic Turret Machines

**Brown & Sharpe Mfg. Co., Providence, R. I.**
**Cleveland Automatic Machine Co. ("Cleveland," also Automatic Plain Machines), Cleveland, O.**
**NEW BRITAIN MACHINE CO.** (Multiple Spindle), New Britain, Conn. (See adv. index, end of book)

### 5883—Automatic Weighing Machines

**Automatic Weighing Machine Co., Newark, N. J.**
**Avery Scale Co. ("Avery" Automatic Self-Indicating & Totalling), North Milwaukee, Wis.**
**Bond Scale Co. (Bond Automatic), Los Angeles, Cal.**
**Edtbauer, E. ("Duplex" for Groceries, etc.), 219 S Clinton, Chicago, Ill.**
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hardy, Jno. B. (Electric), 116 Broad, New York
National Automatic Weighing Machine Co., Mount Kisco, N. Y.
**New England Automatic Weighing Machine Co. (For Weighing & Bagging Cement), 275 Congress, Boston, Mass.**
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**Smidth, F. L. & Co., 50 Church, New York**
**Streeter-Amet Weighing & Recording Co., 140** Dearborn, Chicago, Ill.
**Winters-Coleman Scale Co., Springfield, O.**

### 5884—Automobile Bicycle, Sewing Machine & Typewriter Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**PRENTISS TOOL & SUPPLY CO.** (Complete Plants), 115 Liberty, New York. (See adv. index & branch offices, end of book)

### 5885—Automobile Cylinder Boring Machines

Baker Bros., Toledo, O.
Binsse Machine Co., Harrison, N. J.
Espen-Lucas Machine Works, Phila., Pa.
Lucas Machine Tool Co., Cleveland, O.

### 5886—Automobile Parts Machinery (Drop Forged & Sheet Metal)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

### 5887—Automobile Radiator Tube Machines

**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

### Axe Handle Machinery

(See Lathes, Handle Turning)

### 5888—Axle Cutting-Off & Centering Machines

**FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

### Axle Straightening Machines

(See Shaft Straightening Machines)

### 5889—Axle Upsetting Machines

Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.
Comstock, Geo. S. (Hand Power), Mechanicsburg, Pa.

### 5890—Axle Welding & Upsetting Machines

**Kane & Roach, Syracuse, N. Y.**

### 5891— Badge Pin Machinery

Baird Machine Co., Oakville, Conn.
Manville Bros. Co., Waterbury, Conn.

### 5892— Bag Filling Machines

(See also Packing Machines)

**Brown Bag Filling Machine Co. (For Filling & Sealing Flat Paper Bags), Fitchburg, Mass.**
**Deck, H. S. ("No Dust," Bag Packers for Cement, Lime, etc.), Wayne, N. J.**
**Dentler Bagger Co., Vicksburg, Mich.**
Nordyke & Marmon Co., Indianapolis, Ind.
**O'Brien, A. P. (Sacking & Weighing), Richmond, Va.**
Pratt Engineering & Machine Co. (For Fertilizers, etc.), Atlanta, Ga.
Prims Machinery Co. (Automatic Carton), Battle Creek, Mich.
**RICHARDSON SCALE CO. ("Richardson," Proportioning & Bagging), 3 Park** row, New York. (See adv. index & branch offices, end of book)
**Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.**
**Sawyer, W. H. & Sons, Americus, Ga.**
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**Vierengel, Matthew (Paper Cement), 32 S 6th. Brooklyn, N. Y.**

### 5893— Bag Making Machinery

**Crompton & Knowles Loom Works (Looms), Worcester, Mass.**
Smith & Winchester Mfg. Co., South Windham, Conn.
**Vierengel, Matthew (Cement), 32 S 6th, Brooklyn, N. Y.**

### 5893—Bag Printing Machinery

Koehler, Hy. L. Mfg. Co., Louisville, Ky.

### 5894—Bag & Sack Filling & Sewing Machines

**SCHULE, F. H. CO. (Automatic), 114-118 Liberty, New York.** (See adv. index, end of book)

### 5895— Bakers' Machinery

(See also Confectioners' Machinery)

Bakery Machine Works, Belleville, N. J.
Baum & Schoel, Waterloo, Ia.
**Day, J. H. Co. (Wire Cake Cutting Machines, etc.), Cincinnati, O.**
**Glaser, Gustave & Co., 76 Park pl, New York**
Green, Thos. L. & Co. (Biscuit Plant Equipment Exclusively), Indianapolis, Ind.
**Harton, Pembroke D. (Icing Machines, etc.), Fairmount av & 15th, Phila., Pa.**
**Lynn-Superior Co. (Mixers, Dividers, Brakes, Cake Machines, etc.), Cincinnati, O.**
Prims Machinery Co., Battle Creek, Mich.
**Read Machinery Co., York, Pa.**
**Roth, A. (Creaming & Mixing Machinery), Newport, Ky.**
**Thomson, C. A. Machine Co., Belleville, N. J.**
**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book)

### 5896— Bale Tie Machines

Collins Plow Co., Quincy, Ill.
**Dain Mfg. Co., Ottumwa, Iowa**
**Dederick's, P. K. Sons, Albany, N. Y.**
Des Moines Bale Tie Co., Des Moines, Iowa
Ertel, Geo. Co., Quincy, Ill.
Famous Mfg. Co., East Chicago, Ind.
Kansas City Hay Press Co., Kansas City, Mo.
Porter, J. E. Co., Ottawa, Ill.
Sandwich Mfg. Co., Sandwich, Ill.
Scott Hay Press Co., Kansas City, Mo.
Whitman Agricultural Co., St. Louis, Mo.

### 5897—Band Re-Sewing Machines

(See also Band Sawing Machines)

**ALLIS-CHALMERS CO. (Horizontal),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Connell & Dengler Machine Co., Rochester, N. Y.
Cordesman-Rechtin Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Filer & Stowell Co., Milwaukee, Wis.
Fischer Machine Works, 1845 Carroll av, Chicago, Ill.
Garland, M. Co., Bay City, Mich.
McDonough Mfg. Co., Eau Claire, Wis.
Mershon, W. B. & Co., Saginaw, Mich.
White, John A. & Co., Dover, N. H.
Wickes Bros., Saginaw, Mich.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

### Band Saw Brazing Machines

(See Brazing Machines, Band Saw)

### 5898—Band Saw Filing & Setting

(See also Saw Filing & Setting Machines)

American Wood Working Machinery Co. ("Rogers," "Clement"), Rochester, N. Y.
Baldwin, Tuthill & Bolton ("Bolton"), Grand Rapids, Mich.
Chicago Saw Sharpening Machinery Co., 30 W Erie, Chicago, Ill.
Cleveland Fillet Co. ("Foley"), Cleveland, O.
Covel Mfg. Co., Benton Harbor, Mich.
Disston, Henry & Sons (Revolving), Tacony, Phila., Pa.
Grimes & Harris, Leominster, Mass.
Hanchett Swage Works ("Hanchett" Automatic), Big Rapids, Mich.
**NEW BRITAIN MACHINE CO.** ("Equal Blow"), New Britain, Conn. (See adv. index, end of book)
Rotary File & Machine Co. ("New Reliable," Automatic), 200 Diamond, Brooklyn, N. Y.
Sidney Tool Co. ("Defiance"), Sidney, O.

### 5899—Band Saw Patch Machines

Baldwin, Tuthill & Bolton ("Bolton"), Grand Rapids, Mich.

### 5900—Band Saw Setting Machines

(See Band Saw Filing & Setting Machines; also Saw Filing & Setting Machines; also Saw Sharpening Machines)

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## Band Saw Sharpening Machines
(See Saw Sharpening Machines)

## 5901—Band Saw Stave Jointing Machines
Fischer Machine Works, 1845 Carroll av, Chicago, Ill.

## 5902— Band Sawing Machines
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Sawmill Machinery Co., Hackettstown, N. J.
American Wood Working Machinery Co., Rochester, N. Y.
Baker Machine Co. (Hand Power), Trenton, N. J.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Bentel & Margedant Co. (Also Bands, Re-Saws), Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Central Machine Works Co., Minneapolis, Minn.
Clark Bros. Co., Belmont, N. Y.
Clement, Frank H. Co., Rochester, N. Y.
Colladay, Jos. O., 624 Race, Phila., Pa.
Connell & Dengler Machine Co. (Band, Segment Re-Saws), Rochester, N. Y.
Cordesman, Rechtin Co. (Scroll, etc.), Cincinnati, O.
Crescent Machine Co., Leetonia, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Defiance Machine Works, Defiance, O.
Dennis Machine Co., Jackson, Mich.
Fay, J. & A. Egan Co., Cincinnati, O.
Fischer Machine Works (Band, Segment & Slab Re-Saws, etc.), 1845 Carroll av, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Gardner Machine Works (E. N. & W. H. Hobby, Prop's) (For Chair Mfrs., etc.), Gardner, Mass.
Garland, M. Co. (Self Feeding), Bay City, Mich.
Gerlach, Peter Co., Cleveland, O.
Greaves, Klusman & Co., Cincinnati, O.
Hall & Brown Woodworking Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Indiana Machine Works Co., Fort Wayne, Ind.
Kennedy, Ralph M., 117 N 7th, Phila., Pa.
McDonough Mfg. Co., Eau Claire, Wis.
Mershon, W. B. & Co., Saginaw, Mich.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.
Parks Ball Bearing Machine Co., Knowlton & Fergus, Cincinnati, O.
Power, L. & Co., 20 S 23d, Phila., Pa.
Root, B. M. Co., York, Pa.
Sidney Tool Co. ("Defiance" for Wagon Makers), Sidney, O.
Silver Mfg. Co. (Foot Power), Salem, O.
Smith, H. B. Machine Co., Smithville, N. J.
Thompson, H. G. & Son Co. ("Eureka"), New Haven, Conn.
West Side Iron Works (For Pattern Shops, etc.), Grand Rapids, Mich.
**White, John A. & Co., Dover, N. H.**
Wickes Bros. (Also Re-Sawing), Saginaw, Mich.
Wright, Chas. E. Co., Kenilworth, N. J.
Yerkes & Finn Wood Working Machine Co. (Also Re-Sawing), St. Louis, Mo.

## 5903—Band Sawing Machines for Metal
Griffin, G. W. Co., Franklin Falls, N. H.
Newton Machine Tool Wks. (Inc.), 2347 Vine, Phila., Pa.
Quality Saw & Tool Works ("Napier"), Springfield, Mass.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Thompson, H. G. & Son Co. ("Eureka"), New Haven, Conn.
Wright, Chas. E. Co., Kenilworth, N. J.

## 5904—Band Sprue Sawing Machines
Brass Founders Supply Co. (For Brass Founders), Newark, N. J.

## 5905—Band & Rip Saw Boring & Spoke Tenoning Machines (Combined)
Berlin Machine Works, Beloit, Wis.
Parks Ball Bearing Machine Co., Cincinnati, O.

## 5905a—Bandage (Surgeon's) Cutting Machines
**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)

## Bar Drawing Machines
(See Rod & Bar Drawing Machines)

## Bar Iron Cutting Machines
(See Cutters, Iron, Bar & Rod)

## 5906— Bar Pointing Machines
Brightman Mfg. Co., Columbus, O.

## 5907— Barley Machinery
**BARTLETT, C. O. & SNOW CO.** ("Pearl"), French st., Cleveland, O. (See adv. index & branch offices, end of book)

## 5908—Barrel Boring Machines
Strait, H. N. Mfg. Co. (For Boring Holes in Barrels), Kansas City, Kans.

## 5909—Barrel Hoop Driving Machines
Strait, H. N. Mfg. Co., Kansas City, Kans.
Welch, Robt., St. Louis, Mo.

## Barrel Hoop Machinery
(See Hoop Machinery)

## 5910—Barrel, Keg, Stave & Heading Machinery
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Bartlett, A. F. & Co., Saginaw, Mich.
Benson, A. M. Co., Cleveland, O.
Chapman, T. M. & Sons Co., Old Town, Me.
Chattanooga Machinery Co. ("Standard" Stave Jointer for Slack Barrels; also Stave Bolt Equalizers, Stave Bolters, etc.), Chattanooga, Tenn.
Defiance Machine Works, Defiance, O.
Dix Foundry & Machine Co., Glens Falls, N. Y.
Garland, M. Co. (Stave & Heading Only), Bay City, Mich.
Gerlach, Peter Co. (For Kegs, Pails, Tubs & Slack & Tight Barrels, Crockery Casks & Tobacco Hogsheads), Cleveland, O.
Goodspeed Machine Co. (Cylinder Stave Saws for Pail, Keg, Barrel, Tub, etc.), Winchendon, Mass.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
Mitts & Merrill, Saginaw, Mich.
Oram, Jno. S., 1314 E 53d, Cleveland, O.
Perkins & Co. ("Columbia" Heading Machines, etc.), Grand Rapids, Mich.
Phillips Barrel & Machine Co., Jamestown, N. Y.
Reed, L. M. (Stave, Crozier, Setting-Up Machines & Headers, etc.), Cleveland, O.
Rochester Barrel Machinery Works (Slack Barrel, etc.), Rochester, N. Y.
Stamm Machine Works (Stave Rejointers, etc.), Aurora, Ind.
Strait, H. N. Mfg. Co., Kansas City, Kans.
Strange, Chas. E., Taunton, Mass.
Trevor Mfg. Co. (Headings, Staves, etc.), Lockport, N. Y.
Welch, Robt., St. Louis, Mo.
Whitney, Baxter D. & Son (Stave Sawing Machinery), Winchendon, Mass.
Wickes Bros. Saginaw, Mich.

## 5911—Barrel Washing Machines
Aue, Ferdinand, 418 E 62d, New York
Cleveland Brewers' Supply Co., 317 Pearl, Cleveland O.
**LINK BELT CO. (Automatic),** Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Olson & Tilgner, 37 Ontario, Chicago, Ill.
Schock, G., 514 W 57th, New York

## 5912— Basket Machinery
Cobden Machine Wks. (Stapling Machines), Cobden, Ill.
Horton Basket Machine Co., Elmira, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
St. Joseph Iron Works (Also Package), St. Joseph, Mich.
Saranac Machine Co. ("Advance" Automatic), St. Joseph, Mich
Titus, E. E. (Automatic Power Quart Basket Stapling Machine), Petersburg, Va.

## Beading Machines
(See Crimping & Beading Machines)

## 5912a—Beading Machines (Eave Trough, Cornice, Etc.)
**CANTON FOUNDRY & MACHINE CO.** ("Universal"), Canton, O. (See adv. index, end of book)

## 5913— Beam Coping Machines
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Wickes Bros., Saginaw, Mich.

## 5914—Bean & Seed Sorting Machinery
Bacon Mfg. Co., Pontiac, Mich.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

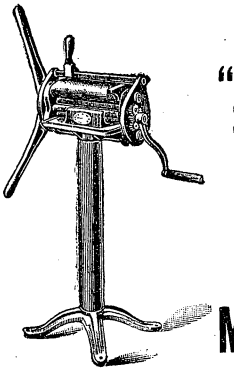
## 5915—Beef & Bacon Slicing Machines
Ams, Max Machine Co., Mount Vernon, N. Y.

## 5916— Beet Grading Machines
Invincible Grain Cleaner Co. (For Cleaners, etc.), Silver Creek, N. Y.

## 5917— Belt Cutting Machines
Luther, C. A. & Co., Pawtucket, R. I.

## 5918—Belt Folding Machines
Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.

## 5919— Belt Lacing Machines
**BIRDSBORO STEEL FOUNDRY & Machine Co.** ("Jackson"), Birdsboro, Pa. (See adv. index, end of book)
Peerless Belt Lacing Machine Co., Swanson & Moore, Phila., Pa.

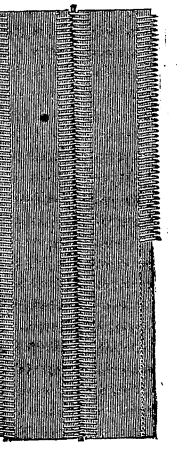



THE "JACKSON" BELT LACING MACHINE

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5-inch Belt Laced in 3 Minutes.

Cost of Material 1c.



The quickest, neatest and most durable connection ever known.

Passes over the smallest pulley without pounding, slipping or strain.

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### 5920—Belt Makers' Machinery

Birmingham Iron Foundry (For Rubber Belting, etc.), Derby, Conn.
Dennis, Jno. Machine Co., Lowell, Mass.
Turner Tanning Machine Co., Peabody, Mass.

### 5921— Belt Sanding Machines

Oakley & Jansen Mfg. Co., Parkersburg, W. Va.

### 5922—Belt Stitching Machinery

Singer Sewing Machine Co. (For Rubber Belting, etc.), 149 B'way, New York

### 5923—Belt Strapping Machines

Diamond Machine Co., Providence, R. I.
Northampton Emery Wheel Co., Leeds, Mass.

### 5924—Belt Stretching Machines

Holmes, Chas. Leather Working Machine Co., 299 Marginal, E B, Boston, Mass.

### 5925—Belt Stretching & Testing Machines (Combined)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### Bench Grinding Machines

(See Grinders, Bench)

### 5926— Bending Machines

Bethlehem Foundry & Machine Co. (For Angles, Tees, Plates, etc.), Front, South Bethlehem, Pa.
Bethlehem Steel Co., South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Chambersburg Engineering Co., Chambersburg, Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Horizontal, etc., Double Steam, Motor & Belt Driven),** Hamilton, O. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Robinson, J. M. Mfg. Co. (¼-inch Plates & Lighter), Cincinnati, O.
Wickes Bros. (Plate, etc.), Saginaw, Mich.
Williams, White & Co., Moline, Ill.

### 5927—Bending Machines (Hydraulic)

Bertsch & Co., Cambridge City, Ind.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.) (For Angles, Bars, Beams, etc.), 1600 Hamilton, Phila. Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co. (Or Bulldozer), 400 Chestnut, Phila., Pa.

### 5928—Bending Machines (Tube)

Tube Bending Machine Co., Newark, N. J.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

### Bending & Forming Machines

(See Forming & Bending Machines)

### 5929— Berry Box Machinery

Titus, E. E., Petersburg, Va.

### 5930—Bevel Gear Turning Machines

**Bridgeford Machine Tool Works (For Automobile Gears), Rochester, N. Y.**

### 5931—Bevel Sawing Machines

Connell & Dengler Machine Co., Rochester, N. Y.

### 5932— Beveling Machines

Royle, Jno. & Sons (Inc.) (Photo Engravers'), Paterson, N. J.
Sheridan, T. W. & C. B. (Bookbinders, etc.), 56 Duane, New York

### 5933— Bicycle Machinery

Adriance Machine Works, Brooklyn, N. Y.
Billings, C. Spencer Co., Hartford, Conn.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Garvin Machine Co., 137 Varick, N. Y.
Hoefer Mfg. Co., Freeport, Ill.
Langelier Mfg. Co., Providence, R. I.
Manville, E. J. Machine Co. (Nipple Machinery), Waterbury, Conn.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 5934— Bifurcating Machines

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### Billing Machines

(See Typewriters, Adding & Billing)

### 5935—Binders' Board Machines

Noble & Wood Machine Co., Hoosick Falls, N. Y.

### 5936—Blast Furnace Machinery

(See also Rolling Mill Machinery)

**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
United Engineering & Fdry Co., Pittsburg, Pa.
Weimer Machine Works Co., Lebanon, Pa.
Youngstown Engineering Co., Youngstown, O.

### 5937—Blast Hole Drilling Machines

Cyclone Drill Co., Orrville, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

### 5937a— Blasting Machines

**du PONT, E. I. de NEMOURS POWder Co.** ("U. S. Standard," "Reliable," "Pull Up"), Wilmington, Del. (See adv. index & branch offices, end of book)

### 5938—Blending & Sifting Machines

Howes, S. Co., Silver Creek, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.

### 5939—Blind Slat Crimping Machines

Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Yerkes & Finan Woodworking Machine Co. (Blind Slat Tenoning & Boring Machines, etc.), St. Louis, Mo.

### 5940—Blind Slat Sawing Machines

American Woodworking Machinery Co., Rochester, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Hayes, E. B. Mahcine Co., Oshkosh, Wis.

### 5941—Blind Wiring Machines

American Woodworking Machinery Co., Rochester, N. Y.
Cordesman, Rechtin Co., Cincinnati, O.
Fay, J. A. & Eagan Co., Cincinnati, O.
Power, L. & Co. ("Hiny"), 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. Y.

### Blue Printing Machines

(For page number see Index of Contents)

### 5942—Boat Unloading Machinery

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (For Unloading Coal, etc.), Hunting Park av & Reading Ry., Phila., Pa.** (See adv. index & branch offices, end of book)

### Bobbin Machinery

(See Spool & Bobbin Machinery)

### 5943—Boiler Cap Reseating Machines

Lagonda Mfg. Co., Springfield, O.

### Boiler Head Flanging Machines

(See Flanging Machines)

### 5944— Bolt Heading Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co. (Automatic Feed), 3830 Lakeside av, N. E., Cleveland, O.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Boynton & Plummer, Worcester, Mass.
Brown, H. B. Co., East Hampton, Conn.
Cook, Asa S. Co. (New Patent Feed for Stove & Tire Bolts, etc.), Hartford, Conn.
Howard Iron Works ("The Burdict," for Hex, Square & Carriage Bolts), Buffalo, N. Y.
National Machinery Co., Tiffin, O.
New, Doty Mfg. Co., Janesville, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Noyes, B. B. & Co. ("Noyes' "), Greenfield, Mass.
Pawtucket Mfg. Co., Pawtucket, R. I.
Putnam Machine Co., Fitchburg, Mass.
Waterbury Farrel Foundry & Machine Co. (Automatic Cold), Waterbury, Conn.

### 5945—Bolt Pointing Machines

Acme Machinery Co., Cleveland, O.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Brown, H. B. Co., East Hampton, Conn.
Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.
Howard Iron Works, 287 Chicago, Buffalo, N. Y.
Landis Machine Co. ("Landis"). Waynesboro, Pa.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
Standard Machinery Co., Bowling Green, O.
Webster & Perks Tool Co., Springfield, O.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

### 5946—Bolt Threading Machines

Acme Machinery Co., Cleveland, O.
**BIGNALL & KEELER MFG. CO.** ("Peerless"), Edwardsville, Ill. (See adv. index, end of book)
Brown, H. B. Co. ("Merriam," Automatic & Non-Automatic, Single or Double Spindle), East Hampton, Conn.
Cook, Asa S. Co. (For Stove & Tire Bolts, etc.), 80 Hayshope av, Hartford, Conn.
Detrick & Harvey Marchine Co. ("Adams"), 508 E Preston, Baltimore, Md.
Foote-Burt Co. ("Reliance"), Cleveland, O.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Hart Mfg. Co., Cleveland, O.
Howard Iron Works (Automatic), 287 Chicago, Buffalo, N. Y.
Landis Machine Co. ("Landis"), Waynesboro, Pa.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
Saunders, D. Sons, Yonkers, N. Y.
Standard Engineering Co., Ellwood City, Pa.
Webster & Perks Tool Co., Springfield, O.
**WELLS BROS. CO. ("Little Giant,"** Bench, also Automatic Opening Die Head Bolt Threaders), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Wiley & Russell Mfg. Co., Greenfield, Mass.

### 5947—Bolt Turning Machinery

Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.

### 5948—Bolt Upsetting Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.

### 5949— Bolt & Nut Machinery

**Acme Machinery Co., Cleveland, O.**
Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.
Badger State Machine Co., Janesville, Wis.
Blake & Johnston Co., Waterbury, Conn.
Boynton & Plumber, Worcester, Mass.
Brown, H. B. Co., East Hampton, Conn.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Howard Iron Works (Automobile), Buffalo, N. Y.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York

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Pawtucket Mfg. Co., Pawtucket, R. I.
Phillips & McLaren, Pittsburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Putnam Machine Co., Fitchburg, Mass.
Standard Machinery Co., Bowling Green, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Webster & Perks Tool Co., Springfield, O.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Williams, White & Co., Moline, Ill.

## 5950—Bolt & Nut Screwing Machines

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 5951— Bolting Machines

Kauffman, J. A. ("Kauffman's" Wheel Rim), Miamisburg, O
Nordyke & Marmon Co. (For Flour & Corn Mills) Indianapolis, Ind.
Ross, Charles & Son Co., 148 Classon av., Brooklyn, N. Y.
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

## 5952— Bolting Saw Machines

Gerlach, Peter Co. (Hand & Power Feed), Columbus rd & Winter, Cleveland, O.

## 5953—Book Binders' Cloth Cutting Machines

Smyth Mfg. Co., Hartford, Conn.

## 5954—Book Binders' Machinery

Anderson, C. F. & Co., 394 S Clark, Chicago, Ill.
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Blackhall Mfg. Co., Buffalo, N. Y.
Brown, R. H. & Co., New Haven, Conn.
Burton's, A. G. Son, 118 S Clinton, Chicago, Ill.
Central Machine Co., Niagara Falls, N. Y.
Crawley Book Machinery Co., Newport, Ky.
Dexter Folder Co., 200 5th av, New York
Fuller, E. C. Co., 28 Reade, New York
Goat & Hibbs (Rounding & Backing Machines), 2 Reade, New York
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Hinze, H. (Backing, Beveling, Rounding Machines, etc.), Tribune bldg, New York
Hoole Mach. & Engraving Works, 29 Prospect, Brooklyn, N. Y.
Jacques, Jno. & Son, Worcester, Mass.
Lange, Henry G., 172 N May, Chicago, Ill.
Latham Machinery Co. ("Monitor"), 306 S Canal, Chicago, Ill.
Liberty Machine Co., 31 Burling sl, New York
Marresford, Wm. F., 56 Pearl, Brooklyn, N. Y.
Marshall, Son & Co., Boston, Mass.
Oswego Machine Works (Neil Gray, Jr., Prop.), Oswego, N. Y.
Perkins Mach'y Co., 132 S Clinton, Chicago, Ill.
Robinson, Jno. T. Co., Hyde Park, Mass.
Rosback, F. P. Co., Benton Harbor, Mich.
Saranac Machine Co. (Wire Book Stitching), St. Joseph, Mich.
Seybold Machine Co., Dayton, O.
Sheridan, T. W. & C. B., 56 Duane, New York
Sigourney Tool Co., Hartford, Conn.
Smyth Mfg. Co., Hartford, Conn.
Standard Machinery Co., Mystic, Conn.
Thompson & Son, New Haven, Conn.
Ziegler, Rob't & Sons, St. Louis, Mo.

## 5955—Book Casing-in Machines

Smyth Mfg. Co., Hartford, Conn.

## 5956—Book Covering Machines

Sheridan, T. W. & C. B., 56 Duane, New York

## 5957— Book Gluing Machines

Smyth Mfg. Co., Hartford, Conn.

## 5958—Book Indexing Machines

Latham Machinery Co., 199 S Canal, Chicago, Ill.

## 5959— Book Sewing Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Sigourney Tool Co., Hartford, Conn.
Smyth Mfg. Co., Hartford, Conn.

## 5960—Book Stitching Machinery

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Central Machine Co., Niagara Falls, N. Y.
Saranac Machine Co., St. Joseph, Mich.

## 5961—Book Trimming Machines

Smyth Mfg. Co., Hartford, Conn.

## Boot Machinery

(See Shoe Machinery)

## 5962—Boring, Drilling, Tapping & Milling Machines

Rochester Boring Machine Co. ("Rochester," Horizontal), Rochester, N. Y.

## 5963—Boring, Drilling & Milling Machines (Combined)

Cleveland Machine & Tool Works, Cleveland, O.

## 5964—Boring, Drilling & Tapping Machines (Combined)

Rockford Drilling Machine Co. ("Rockford," Horizontal), Rockford, Ill.

## Boring Machines

(See Metal Boring Machines; also Wood Boring Machines; also Pneumatic Boring Machines)

## 5965—Boring Machines (Bracket)

**COATES CLIPPER MFG. CO.** ("Coates"), Worcester, Mass. (See adv. index, end of book)

## 5966—Boring Machines for Electric Wiring

Ford Auger Bit Co., Holyoke, Mass.
McCrea, Jas. & Co. ("Roberts"), 558 W Washington, Chicago, Ill.
Star Electric Co. ("The G. & E."), Binghamton, N. Y.

## 5967—Boring Machines (Hand)

Hardware Specialty Mfg. Co. ("Boss" Two-Speed), Anderson, Ind.
Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
Snell Mfg. Co. "Snell," Angular & Upright), Fiskdale, Mass.
Swan, Jas. Co. (Wood Frame for Wood), Seymour, Conn.

## 5968—Boring Machines (Locomotive Connecting Rod)

Prentice Bros. Co., Worcester, Mass.

## 5969—Boring Machines (Portable)

**CHICAGO FLEXIBLE SHAFT CO., 81** La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
**OIL WELL SUPPLY CO. (Oil Well),** 215 Water, Pittsburg, Pa. (See adv. index, end of book)
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Stow Flexible Shaft Co., N 26th c Buttonwood.
Stow Mfg. Co., Binghamton, N. Y. Phila., Pa.

## Boring & Drilling Machines

(See Mills, Boring & Turning)

## 5970—Boring & Drilling Machines (Horizontal)

American Tool Works Co., Cincinnati, O.
Barnes, W. F. & John Co., Rockford, Ill.
Beaman & Smith Co., Providence, R. I.
Betts Machine Co., Wilmington, Del.
Binsse Machine Co., Newark, N. J.
**DALLETT, THOS. H. CO. (Electric Portable), 2300 York, Phila., Pa.** (See adv. index, end of book)
Detrick & Harvey Machine Co., Baltimore, Md.
Fitchburg Machine Works, Fitchburg, Mass.
Fosdick Machine Tool Co. (& Milling), Cincinnati, O.
Franklin Machinery Co., Franklin, Pa.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Gisholt Machine Co. (Operating from Either Side), Madison, Wis.
Hoefer Mfg. Co. (Also Horizontal & Vertical Combined), Freeport, Ill.
Lucas Machine Tool Co., Cleveland, O.
McCabe, J. J., 30 Church, New York
New Haven Mfg. Co., New Haven, Conn.
Newton Machine Tool Works, 234 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Pawling & Harnischfeger Co., Milwaukee, Wis.
Poole, J. Morton Co., Wilmington, Del.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
**Rochester Boring Machine Co., Rochester, N. Y.**
Rockford Drilling Machine Co., Rockford, Ill.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
Universal Boring Machine Co. ("Universal" & "Milling"), Hudson, Mass.
Warner & Swassey Co., Cleveland, O.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

## 5971—Boring & Tapping Machines (Automatic)

Dreses Machine Tool Co. (Boring, Facing & Tapping), Cincinnati, O.

## 5972—Bottle Blowing Machines

Cox Brothers, Bridgeton, N. J.

## 5973— Bottle Cap Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

## 5974— Bottle Capping Machines

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
Crown Cork & Seal Co., Baltimore, Md.

## 5975—Bottle Corking Machines

Crown Cork & Seal Co., Baltimore, Md.
Dicke Tool Co. (Bench & Upright), Downers Grove, Ill.
Ermold, Edw. ("Ermold," Automatic Steam), 652 Hudson, New York
Weiscopf, L. ("Milwaukee," Automatic), 20 Vesey, New York

## 5976—Bottle Filling Machines (Automatic)

Bishop-Babcock-Becker Co. ("Eureka," Counter Pressure Revolving), Cleveland, O.
Bottlers' Machinery & Mfg. Co., 420 Wells, Chicago, Ill.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
Ermold, E., 652 Hudson, New York
Haller, Joseph F. Co., Sheridanville P. O., Pittsburg, Pa.
Henes & Keller Co., Menominee, Mich.
Liquid Carbonic Co. ("Monarch" Cam Lift Rotary), 420 Wells Chicago, Ill.
**Yawman & Erbe Mfg. Co., Rochester, N. Y.**

## 5977— Bottle Sealing Machines

Bond Bottle Sealing Co., Wilmington, Del.
Crown Cork & Seal Co., Baltimore, Md.
Phoenix Cork Co., 198 Chambers, New York
Star Seal Co., 55 Wall, New York

## 5978—Bottle Washing & Soaking Machines

Bailey Engine Co., Lima, N. Y.
**Goetz & Flodin Mfg. Co.** ("New Eich"), Clybourn av & Willow, Chicago, Ill.
Goldman, E. & Co. ("Tunelius" Washer, "Goldman" Pocket Soaker), 175 E Randolph, Chicago, Ill.
Haller, Joseph F. Co., Sheridanville P. O., Pittsburg, Pa.
Henes & Keller Co. (Improved & Revolving), Menominee, Mich.
Hoyt Bros. & Co., Lynn, Mass.
Kyle Bottle Washing Machine, 340 N Ashland av, Chicago, Ill.
Loew Mfg. Co. ("Economic" Soaker), Cleveland, O.
Mangus & Sons Co., 244 E Randolph, Chicago, Ill.
Nordberg Mfg. Co. (Soaking & Washing), Milwaukee, Wis.
The 20th Century Machinery Co. (Soaking & Washing), Milwaukee, Wis.
Universal Machine Mfg. Co., 2837 Susquehanna av, Phila., Pa.

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Weiscopf, L. ("Haller," for Washing Bottles After Corking), 20 Vesey, New York
Wenzell, S. S. Machine Co. ("Eick" Washing & Rinsing), 438 N 12th, Phila., Pa.
Yawman & Erbe Mfg. Co. ("Goulding" Washers), Rochester, N. Y.

## 5979—Bottle Wiring Machines

Lightning Bottle Wirer Co., Produce Exchange, New York

## 5980—Bottlers' Machinery & Supplies

(See Brewers' & Malsters' Machinery & Supplies; also Piltching Machines)
Aetna Bottle & Stopper Co. (Bottle Stoppers, etc.), Providence, R. I.
American Soda Fountain Co., Boston, Mass.
American Stopper Co., 4 Verona, B'klyn, N. Y.
Baird Machine Co. (Special Machinery & Bottle Stoppers), Oakville, Conn.
Barry-Wehmiller Machinery Co., St. Louis, Mo.
Bernardin Bottle Cap Co. (Metallic Bottle Caps, "Cyclone" Soda Neck Wires & Beer Stoppers), Evansville, Ind.
Bishop-Babcock-Decker Co. ("Eureka" Beer Bottling Machines, etc.), Cleveland, O.
Blue Seal Supply Co., 12 Portland, Boston, Mass.
Bond Bottle Sealing Co. (Bottle Sealing), Wilmington, Del.
Boston Bottle Wiring & Labeling Co., 404 Atlantic av, Boston, Mass.
Bottle Capping Machine Co. (Bottle Capping Machines), 949 B'way, New York
Bottlers' Machinery Co. ("Peerless" Labeling Machines), 79 Milk, Boston, Mass.
Bottlers' Machinery & Mfg. Co., 420 Wells, Chicago, Ill.
Brewers' & Bottlers' Machinery Works, Chicago, Ill.
Budde & Westermann, 50 Vesey, New York
**CHAIN BELT CO., Milwaukee, Wis.**
(See adv. index & branch offices, end of book)
Crown Cork & Seal Co. (Loop Seals, Bottle Stoppers, etc.), Baltimore, Md.
Day, J. H. & Co., Cincinnati, O.
Dicke Tool Co., Downers Grove, Ill.
Economic Machinery Co. ("Star" & "World" Labeling Machines), Worcester, Mass.
Ermold, Edward (Corking & Labeling Machine, etc.), 656 Hudson, New York
Federal Brass Works, 225 W Illinois, Chicago, Ill.
Frankel, Max Co. (Bottlers' Supplies, Corks, etc.), 290 Pearl, New York
Goetz & Flodin Mfg. Co., Clybourn av & Willow, Chicago, Ill.
Goldman, E. & Co. (Inc.) (Pasteurizers, Crate Soakers, "Tunelius" Bottle Washers, "Economic" Rackers, etc.), 175 E Randolph, Chicago, Ill.
Henes & Keller Co. (Bottle Fillers, Air Regulators, etc.), Menominee, Mich.
Hinde & Dauch Paper Co. ("Climax" Bottle Wrappers), Sandusky, O.
Hoyt Bros. & Co. (Bottle Washers, etc.), Lynn, Mass.
Hutter, Karl, 241 Lafayette, New York
Hygienic Bottling Machine Co., 6 Wall, New York
Independent Filter Co. ("Goldman" Bottle Filter), 175 E Randolph, Chicago, Ill.
Kyle Bottle Washing Machines (Soaking, Washing, Rinsing & Conveying, etc.), 340 N Ashland av, Chicago, Ill.
Leffler, Chas. & Co. ("Lightning"), 63 Clymer, Brooklyn, N. Y.
Loew Mfg. Co. (Bottle Cleaning Machines, etc.), Cleveland, O.
McKenna Bros. Brass Co. (Beer Bottling Faucets), 1st av & Ross, Pittsburg, Pa.
Magnus, A. Sons Co. ("Otto" Bottle Soaking, Washing & Rinsing Machines, "Colby" Rackers, "Herder" Shaving Washers, "Magnus" Conveying Tables, etc.), 244 E Randolph, Chicago, Ill.
Merkel Mfg. Co., 19 Whitehall, New York
Nordberg Mfg. Co. ("Nordberg" Bottle Soaking & Washing Wheels), Milwaukee, Wis.
Puffer Mfg. Co., 216 Centre, New York
Schneider Perfection Bottling Machine Co ("Perfection" Bottling Machines), 115 S Clinton, Chicago, Ill.
Twentieth Century Machinery Co. (Bottle Soaking Machines), Milwaukee, Wis.
**VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis.** (See adv. index, end of book)
Wenzell, S. S. Machine Co. ("Eick" Bottle Washing & Rinsing), 443 N 12th, Phila., Pa
Weiscopf, L. (Washing, Corking, Filling, Labeling, etc.), 20 Vesey, New York
Witteman Co. (Specialties), 188 William, New York
Yawman & Erbe Mfg. Co., Rochester, N. Y.
Zoller, Chas. Co., 211 E 94th, New York

## 5981— Box Blocker Machines

Fischer Machine Works ("Fischer's" Double), 1845 Carroll av, Chicago, Ill.

## 5982—Box Board Grooving Machines

Morgan Machine Co., Rochester, N. Y.

## 5983— Box Board Machines

Beloit Iron Works, Beloit, Wis.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Mich.
Carver Cotton Gin Co., East Bridgewater, Mass.
Connell & Dengler Machine Co., Rochester, N. Y.
Fischer Machine Works (Power Feed Box, Board Matcher), 1845 Carroll av, Chicago, Ill.
Gerlach, Peter Co. ("Jumbo"), Columbus rd & Winter, Cleveland, O.
Hall & Brown Woodworking Machine Co. (Power Feed Box Board Matches), 1917 N B'way, St. Louis, Mo.
Humphrey Machine Co., Keene, N. H.
Linderman Machine Co., Muskegon, Mich.
Moore & White Co., 15th & Lehigh av, Phila., Pa.
Murray, D. J. Mfg. Co., Wausau, Wis.
Wilkin-Challoner Co., Oshkosh, Wis.

## 5984—Box Board Matching Machines

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg, New York
Berlin Machine Works, Beloit, Mich.
Connell & Dengler Machine Co., Rochester, N. Y.
Fischer Machine Works (Single & Double Color), 1845 Carroll av, Chicago, Ill.
Hobbs Mfg. Co., Worcester, Mass.
Linderman Machine Co., Muskegon, Mich.
Morgan Machine Co., Rochester, N. Y.
Stevens Machine Co., Winooski, Vt.

## 5985—Box Board Printing Machines

Boston Printing Press & Machinery Co ("Prouty"), 176 Federal, Boston, Mass.
Connell & Dengler Machine Co. (One, Two & Three Colors), Rochester, N. Y.
Cross Press & Sign Co., 1508 Dayton, Chicago, Ill.
Fischer Machine Works (Cross, Single & Double Color), 1845 Carroll av, Chicago, Ill.
Grammes, L. F. & Sons (Cigar Box, etc.), Allentown, Pa.
Hall & Brown Woodworking Machine Co., St. Louis, Mo.
Hooper, F. X. (Multi-Color), Glenarm, Md.
Morgan Machine Co. (One to Three Colors), Rochester, N. Y.
Yerkes & Finan Woodworking Machine Co., St Louis, Mo.

## 5986—Box Board Scoring Machines

Hobbs Mfg. Co., Worcester, Mass.

## Box Cleating Machines

(See Box Nailing & Cleating Machines)

## 5987—Box Dressing Machines

Doig, Wm. S. (Est. of), 54 Franklin, B'klyn, N. Y.

## 5988— Box Ending Machines

Hobbs Mfg. Co., Worcester, Mass.

## 5989—Box Hand Hole Cutting Machines

Fischer Machine Works (Automatic), 1845 Carroll av, Chicago, Ill.
Chase Turbine Mfg. Co., Orange, Mass.

## 5990— Box Hinging Machines

Grammes, L. F. & Sons, Allentown, Pa.

## 5991—Box Makers' Machinery

American Woodworking Mach'y Co., Rochester.
Bentel & Margedant Co., Hamilton, O. N. Y.
Berlin Machine Works, Beliot, Wis.
Burgess Machine Co. (Nailing, Trimming, etc.), New Haven, Conn.
Connell & Dengler Machine Co., Rochester, N. Y.
Cordesman, Rechtin Co., Cincinnati, O.
Fay, J. A. & Egan Mfg. Co., Cincinnati, O.
Garland, M. Co. (Box Board, etc.), Bay City, Mich.
Grammes, L. F. & Sons (Cigar & Wooden), Allentown, Pa.
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hemingway Machine Co. (Sizing, Saw, etc.), Lynn, Mass.
Hobbs Mfg. Co., Worcester, Mass.
Humphrey Machine Co., Keene, N. H.
Luther, B. G. & Co., Worcester, Mass.
Mereen, Arno (Box Shook Band, ReSaw, etc.), Minneapolis, Minn.
Montague Iron Works Co., Montague, Mich.
Morgan Machine Co., Rochester, N. Y.
Power, L. & H. Co., 20 S 23d, Phila., Pa.
St. Paul Machinery Mfg. Co. (Dovetail Box Machines), St. Paul, Minn.
Smith, H. B. Machine Co., Smithville, N. J.
Strange, Chas. E., Taunton, Mass.
Woods, S. A. Machine Co., Boston, Mass.

## 5992—Box Nail Feeding Machines

Doig, Wm. S. (Est. of) (Automatic), 54 Franklin, B'klyn, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.

## 5993—Box Nailing & Cleating Machines

Burgess Machine Co., New Haven, Conn.
Doig, Wm. S. (Est. of) (Of All Kinds; also Double Decker Nailing & Cleating), 54 Franklin, B'klyn, N. Y.
Grammes, L. F. & Sons (Upright Power for Light & Medium Boxes, Brushes, Chains, etc.), Allentown, Pa.
Morgan Machine Co., Rochester, N. Y.

## 5994— Box Reaming Machines

Spears & Riddle Co., Wheeling, W. Va.

## 5995— Box Shook Machinery

(See also Box Makers Machinery)
Chapman's, T. M. Sons Co., Old Town, Me.

## 5996—Box Shook Weaving Machines

Box Supply Co. (Automatic), Cincinnati, O.

## Box Stapling Machines

(See Wire Stapling Machinery)

## 5997— Box Strapping Machines

Doig, Wm. S. (Est. of) (Beer Box), 54 Franklin, Brooklyn, N. Y.

## 5998— Box Trimming Machines

Burgess Machine Co., New Haven, Conn.
Fischer Machine Works (Double Box Blocker), 1845 Carroll av, Chicago, Ill.
Grammes, L. F. & Sons, Allentown, Pa.
Morgan Machine Co. (For Dressing Corners of Lock Corner Boxes), Rochester, N. Y.

## 5999—Box & Crate Making Machinery

Chase Turbine Mfg. Co., Orange, Mass.
Rogers Iron Mfg. Co., Muskegon, Mich.

## 6000— Brace Head Machines

Bradley, H. C. (For Wood Heads), Bridgeport, Conn.

## 6001—Brass Sawing Machines

Griswold, Geo. M. Machine Co., New Haven, Conn.

## 6002—Brass & Copper Rolling Mill Machinery

Farrel Foundry & Machine Co., Ansonia, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Torrington Mfg. Co., Torrington, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 6003—Brazing Machines (Band Saw)

American Woodworking Machinery Co., Rochester, N. Y., West st bldg, New York
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Chicago Saw Sharpening Machinery Co., 30 W Erie, Chicago, Ill.
Filer & Stowell Co., Milwaukee, Wis.
Rogers, S. C. & Co., Buffalo, N. Y.
Waterbury Farrel Fdy. & Machine Co., Waterbury, Conn.

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## 6004— Bread Crumbing Machines

Day, J. H. Co., Cincinnati, O.

## 6005—Brewers' & Malsters' Machinery & Supplies

(See also Bottlers' Machinery & Supplies; also Ice & Refrigerating Machinery; also Elevating & Conveying Machinery; also Heaters, Feed Water)

Adt, John B. (Brewery Only), 332 N Holliday, Baltimore, Md.

American Antiformin Co. ("Antiformin"), 168 8th, Brooklyn, N. Y.

Aue, Ferdinand, 418 E 62d, New York

Barry-Wehmiller Machinery Co., St. Louis, Mo.

Blettner, Jos. B. & Co., 1976 Central av, Cincinnati, O.

Brahm, Jos., 150 Nassau, N. Y.

Brewing Appliance Specialty Co. ("Perfection" Tapping Devices), Hartford, Conn.

British-American Co. (Inc.) ("Bishopric's Sanite Mastic"), Cincinnati, O.

Buecker, Henry F., Newport, Ky.

Buffalo Scale Co. (Brewers' Scales), Buffalo, N. Y.

**CHAIN BELT CO., Milwaukee, Wis.** adv. index & branch offices, end of book)

Cleveland Brewers' Supply Co., 1506 W 25th, Cleveland, O.

Cypress Lumber Co. (Tanks, Vats, etc.), Apalachicola, Fla., & 88 Broad, Boston, Mass.

Deckebach, F. C. Sons Co. (Cooling Apparatus, etc.), 123 W Court, Cincinnati, O.

Dundon's, F. P. San Francisco Iron Works, San Francisco, Cal.

Engel, Geo. Beer Cooler Co., 182 E Genessee, Buffalo, N. Y.

Eureka Machine Co. (Branding Machines, Pitch Spraying Apparatus, Pitching Machines, Keg Scrubbing Machines, etc.), Cleveland, O.

Galland-Henning Pneumatic Malting Drum Mfg. Co. (Pneumatic Malting Drums), Milwaukee, Wis.

Girard Iron Works (Cask Rests, Vat Supporters, Hose Passers, etc.), 22d & Master, Phila., Pa.

Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.

Goetz & Flodin Mfg. Co. (Mash Tubs, Brew Kettles, Beer Coolers, Filters, Bronze Drilled False Bottoms, etc.), 1802 Clybourne av, Chicago, Ill.

Golden Gate Mfg. Co. ("Golden Gate" Lager Beer Valves & Racking Apparatus), 9 Desbrosses, New York

Goldman, E. & Co., 175 E Randolph, Chicago, Ill.

Haggenmiller, Th. (Est. of). (Combination Pitching Machines), 827 N 4th, Phila., Pa.

Harris, Arthur & Co. (Copper & Brass Work) 212 N Curtis, Chicago, Ill.

Heiser, Wm. & Sons Co. (Manhole Doors, etc.), 114 Clinton, Buffalo, N. Y.

Hersey Mfg. Co. (Thermo-Pneumatic Malting Apparatus), 314 W 2d, Boston, Mass.

Hirsh & Schofield, 18 Water, New York

Heyman, N. H. (Keg-Scrubbing, Sprinkling Machines, etc.), 438 E 59th, New York

Howes, S. Co. (Polishing & Separating Machines), Silver Creek, N. Y.

Huetteman & Cramer Co., c Beaufait & Mack avs, Detroit, Mich.

Huntley Mfg. Co. ("Monitor" Malt Cleaner), Silver Creek, N. Y.

**JEFFERY MFG. CO. (Barrel & Keg** Elevators), Columbus, O. (See adv. index & branch offices, end of book)

Kaestner & Hecht Co. (Inc.) (Grain Removers, Mashing Machines, Pitching Machines, Malt Mills, etc.), 440 S Jefferson, Chicago, Ill.

Kast Copper & Sheet Iron Co. (Brew Kettles, Stills, Mash Tubs, Coolers, etc.), 91 Main, Buffalo, N. Y.

Keller, Robert ("Nonpariel" Stamp Paste & Isinglass, etc.), 334 3d, Phila., Pa.

Laubenheimer, Geo. E. Co. (Brew Kettles, Beer Coolers, etc.), 2904 Carroll av, Chicago, Ill.

Liquid Carbonic Co., 420 N Wells, Chicago, Ill.

Loew Mfg. Co. ("Loco Magic" Purifier), Cleve-

Mark Mfg. Co., Evanston, Ill. land, O.

Matthews, John Apparatus Co. (Carbonic Acid Gas Machinery), 449 1st av, New York

Milwaukee Brewers' Specialty Co. ("Milwaukee" Steaming Tray), Milwaukee, Wis.

National Machine Works (Pitching Machines), Sheffield and North av, Chicago, Ill.

Novelty Steam Boiler Works (Triplett & Jennings, Props.) (Mash Tubs), Baltimore, Md.

Olsen & Tilgner Mfg. Co. (Mash Machines, Non-Explosive Malt Mills, Keg & Barrel Scrubbers, Shaving Washers, Filter-Mass Washers, Keg & Barrel Rinsers, etc.), 448 W Ontario, Chicago, Ill.

Otto, J. M. (Coolers, Swimmers, etc.), 46 Maujer, B'klyn, N. Y.

Prince, John A. (Soaking, Washing & Rinsing Machines), 154 W 27th, New York

Prinz & Rau Mfg. Co. (Barley Graders & Separators), 659 E Water, Milwaukee, Wis.

Reisinger, Hugo (Filtering Apparatus), 11 B'way, New York

Rheinstrom Bros. ("Perfection" Beer Filters), 919 Martin, Cincinnati, O.

Rochester Bunging Apparatus Co. (Racking Apparatus), Rochester, N. Y.

Rochester Vacuum Valve Co. (Brewers' Valves), Rochester, N. Y.

Roos', August, Son Copper Works (Fire Kettles, Fold Bottoms, Beer Coolers, etc.), 429 E 91st, New York

Saladin Pneumatic Malting Construction Co. (Pneumatic Malting Plants), 24 N Clinton, Chicago, Ill.

Schneible Co. (Racking, Carbonating & Cooling Apparatus), Buffalo, N. Y.

Schock, Gustav (Barrel Elevators, Shaving Machines, Malt Mills, Mash Machines, etc.), 514 W 57th, New York

Seibel-Suessdorf Cooper & Iron Mfg. Co. (Barrel Washers, Isinglass Mixers, Beer Coolers, etc.), c 2d & Lombard, St. Louis, Mo.

Selg Brewery Apparatus Co. (Fermenters, Washing Apparatus, etc.), 40 Water, New York

Toepfer, W. & Sons, 76 Menomonee, Milwaukee, Wis.

**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)

Wasel's Copper Works (Kettles, Mash Tubs, False Bottoms & Copper Work of All Descriptions for Breweries, Distilleries, etc.), 50 N 3d, Brooklyn, N. Y.

Wittemann Co., 188 William, New York

Zies, Chas. & Sons, Baltimore, Md.

Zinsser, Wm. & Co. (Isinglass, Pitch, Alkalies, Acids, etc.), 197 William, New York

Zobler, Otto Mfg. Co. (Kettles, Coolers, etc.), 336 N Oakley av, Chicago, Ill.

Zoller, Chas. Co. (Barrell Washing Machines, Keg Scrubbing Machines, etc.), 211 E 94th, New York

## 6006— Briar Pipe Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

## 6007—Brick Cutting Machinery

American Clay Machinery Co. (Automatic), Bucyrus, O.

Anderson Foundry & Machine Works, Anderson, Ind.

Bonnot Co. (Rotary Automatic), Canton, O.

Brewer, H. & Co. (Rotary Automatic), Tecumseh, Mich.

Chambers Bros. Co., 52d & Lancaster av, Phila., Pa.

Fate, J. D. Co. ("Bensing," Automatic), Ply-

Freese, E. M. & Co., Galion, O. mouth, O.

Hasselback, M. R., Falls Creek, Pa.

**MARION FOUNDRY, MACHINE &** Supply Co. ("Marion"), Marion, Ind. (See adv. index, end of book)

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Scott-Madden Iron Works Co. (Endless Belt), St. Louis, Mo.

Steele, J. C. & Sons (Automatic), Statesville, N. C.

Wallace Mfg. Co. (Rotary Automatic, End Cutter, etc.), Frankfort, Ind.

## 6008— Brick Machinery (Soft Mud)

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)

## Brick Machinery & Supplies

(See the Specific Article Required)

## 6009—Brick Mould Sanding Machines

Cohoes Iron Fdry. & Mach. Co., Cohoes, N. Y.

Potts, C. & A. & Co., Indianapolis, Ind.

Waldron, Chas. ("Champion"), Haverstraw,

Wellington Machine Co., Wellington, O. N. Y.

## 6010— Brick Press Machines

**AMERICAN CLAY MACHINERY CO.** (Dry & Semi-Dry & Re-Press), Bucyrus, O.,

& Willoughby, O.

Anderson Foundry & Machine Works ("Berg," Dry Press, etc.), Anderson, Ind.

Arnold-Creager Co. (Re-Press), New London, O.

Ashland Steel Range & Mfg. Co., Ashland, O.

Bonnot Co., Canton, O.

Brazil Machine & Foundry Co., Brazil, Ind.

Brewer, H. & Co., Tecumseh, Mich.

Carnell, Geo. (Est. of) (Fire & Red), 1819 N 5th, Phila., Pa.

Chambers Bros. Co. (Re-Pressed, etc.)) 52d, below Lancaster av, Phila., Pa.

Chicago Brick Machinery Co. ("Elwood"), Great Northern bldg, Chicago, Ill.

Chisholm, Boyd & White Co. ("Boyd", Dry Press), W 57th & Wallace, Chicago, Ill.

Clearfield Machine Shops (Ltd.) (Fire Brick), Clearfield, Pa.

**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)

Craycroft, Benjamin, Vadalia, Ill.

Eastern Machinery Co., New Haven, Conn.

Fate, J. D. Co., Plymouth, O.

Fernholtz Brick Machinery Co. (Steam & Hand Power), St. Louis, Mo.

Ford, Humphrey (Upright & Horizontal), Spring-

Freese, E. M. & Co., Galion, O. field, Mass.

Hensley, Jas. W., Indianapolis, Ind.

Illinois Supply & Construction Co., St. Louis, Mo.

Manufacturers' Equipment Co. (Stiff, Plastic & Dry Press), Dayton, O.

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Means Engineering & Foundry Co., Toronto, O.

Ohio Ceramic Engineering Co. (Dry & Repress), Cleveland, O.

Ohio Machine Co. (Repress), Middleport, O.

Portsmouth Machine & Casting Co., Portsmouth, O.

Queen City Brick Machine Co., Traverse City,

Raymond, C. W. Co., Dayton, O. Mich.

Reliance Machine & Tool Works, 3333 Franklin av, St. Louis, Mo.

Scott-Madden Iron Works Co. ("Andrus"), St. Louis, Mo.

Simpson Bros. (Fire Brick), Portsmouth, O.

Stearns Co. (Sand Lime), Erie, Pa.

Steele, J. C. & Son (Represses), Statesville, N. C.

**THROPP'S, JOHN E. SONS CO. (Ro-** tary Brick Presses), ft of Lewis, Trenton, N. J. (See adv. index, end of book)

Wallace Mfg. Co., Frankport, Ind.

Wellington Machine Co., Wellington, O.

Wenger, Geo. Machinery & Supply Mfg. Co. (Dry Press, Stiff Mud, etc.), St. Louis, Mo.

Wiles, A. M. & W. H. Co., Grassy Point, N. Y.

## Brick Press Machines (Sand Lime)

(See Sand Lime-Brick Machines)

## Brick Sanding Machines

(See Brick Mould Sanding Machines)

## 6011—Bridge Machinery for Bascule Bridges

**FAWCUS MACHINE CO., 2820 Small-** man, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Bridge Operating Machinery

(See Draw Bridge Machinery)

## 6012— Briquetting Machinery

American Grondal Kjellin Co. ("Grondal"), 45 Wall, New York

Chisholm, Boyd & White Co., W 57th & Wallace, Chicago, Ill.

Commercial Artificial Fuel Co. (For Anthracite Culm, Lignite & Ores, etc.), Toledo, O.

**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)

Mashek Engineering Co. (Coal, etc.), 90 West, New York

Mill & Smelter Engineering Co. (Full), 114 Liberty, New York

Mould, Henry S. Co., Empire bldg, Pittsburg, Pa.

Olsen, Tiinus & Co. (Moulding Machines), 500 N 12th, Phila., Pa.

Stokes, F. J. Machine Co. (Presses & Compressors), Phila., Pa.

Traylor Engineering Co. (Coal etc.), Allentown, Pa.

United States Rapid-Fire Gun & Power Co. (For Coal, Clay, etc.), Derby, Conn.

## 6013— Broaching Machines

**BLISS, E. W. CO., 19 Adams, Brook-** lyn, N. Y. (See adv. index & branch offices, end of book)

Burr, John T. & Sons, 429 Kent av, Brooklyn, N. Y.

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**FREVERT MACHINERY CO., 18 Dey.** New York. (See adv. index, end of book)
Harrington, Edwin Son & Co., 17th & Callowhill, Phila., Pa.
**Lapointe Machine Tool Co., Hudson, Mass.**

### 6014— Bronzing Machines

Fuchs & Lang Mfg. Co., 29 Warren, New York

### 6015—Broom Handle Machinery

Bentel & Margedent Co., Hamilton, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Kline, Lewis T., Alpena, Mich.
Ober Mfg. Co., Chagrin Falls, O.
Trevor Mfg. Co., Lockport, N. Y.

### 6016— Broom Machinery

Cassard, Hamilton, Baltimore, Md.
Genesee Valley Mfg. Co. (Broom Making), Mount Morris, N. Y.
Hand Stitch Broom Sewing Machine Co., House bldg, Pittsburg, Pa.
Lipe & Walroth Co., Syracuse, N. Y.
Mercantile Warehouse Co. (Steam Broom Sewing Machines), 53 Beach, New York
Phillips, S. C., Schenectady, N. Y.
Pocock, Oliver, 1042 Harriet, Cincinnati, O.
Walrath, Alphonse Co., Fort Plain, N. Y.

### 6017—Brush Machinery & Tools

Grammes, L. F. & Sons (Nailing, etc.), Allentown, Pa.
Leffler, Chas. & Co., 49 Clymer, Brooklyn, N. Y.
Pickering, M. J., 238 Arch, Phila., Pa.
Young & Robinson, Frederick, Md.

### 6018— Buckle Machinery

Baird Machine Co. (Wire), Oakville, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.
**SHUSTER, F. B. CO. (Automatic),** New Haven, Conn. (See adv. index, end of book)
Special Machinery Co. (Automatic Buckle Wire), Bridgeport, Conn.

### 6019—Buckle Tongue Machines (Automatic)

Adt, Jno. & Son, New Haven, Conn.
Nilson, A. H. Machine Co., Bridgeport, Conn.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 6020— Buckwheat Machinery

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.

### Buffing & Polishing Machines

(See Lathes, Buffing & Polishing)

### Building Block Machinery

(See Clay Building Block Machinery; also Concrete Building Block Machinery)

### 6021—Bulldozer or Bending Machines

(See also Forging Machines)

Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**Rock River Machine Co.** ("Badger" Bulldozers), Janesville, Wis.
**Williams, White & Co.,** Moline, Ill.
**Youngstown Foundry & Machine Co.** (Bulldozers), Youngstown, O.

### 6022—Bun Branding Machines

Pawling & Harnischfeger ("Milwaukee"), Milwaukee, Wis.

### 6023— Burnishing Machines

**ABBOTT BALL CO., Hartford, Conn.** (See adv. index, end of book)
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**Ohl, Geo. A. & Co.,** 157 Oraton, Newark, N. J.

### 6024—Butchers' Machinery & Supplies

Adt, Jno. B. (Fat Cutting Devices), 332 N Holliday, Baltimore, Md.
Bossert, Louis & Son (Blocks), Grand & Newtown Creek, B'klyn, N. Y.
Brecht, Gus. V., Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.
Chatillon, Jno. & Sons (Complete Line), 85 Cliff, New York
Christy Knife Co. (Family Cleaners), Fremont, Ohio
Cincinnati Butchers' Supply Co., Cincinnati, O.
Daemicke, Paul J. Co., 261 S Water, Chicago,
Ehrlich, H. & Sons Mfg. Co., St. Joseph, Mo.
Fay, J. A. & Egan Co., Cincinnati, O.
Forschner, Chas. & Sons, 206 E 19th, New York
Foster Bros. & Chatillon Co., Fulton, N. Y.
Gloekler, Bernard Co., Pittsburg, Pa.
Huff Bros. Butchers' Supply Co., Decatur, Ill.
Mack & Co., Rochester, N. Y.
Murray Iron Works Co., Burlington, Ia.
Plumb, Fayette R. (Inc.) (Cleavers, Choppers & Knives), Fkd., Philadelphia, Pa.
Probeck, P. J. Co., Cleveland, O.
Randall, R. T. & Co., 333 N 2d, Phila., Pa.
St. Louis Butchers' Supply Co., 1537 N 15th, St. Louis, Mo.
Schmidt, C. Co., John & Livingston, Cincinnati, O.
Silver Mfg. Co. (& Supplies, Lard & Tallow Presses, Ham Pumps, "Wagner" Storage Stuffers, etc.), Salem, O.
Smith, H. B. Machine Co., Smithville, N. J.
Smith's, John E. Sons Co. (Meat Choppers, Steam Kettles, Lard Mixers, etc.), Buffalo,
Stevens, B. A. Co., Toledo, O. N. Y.
Wolf, Sayer & Heller, Fulton c Peoria, Chicago, Ill.
Zies, Chas. & Son, Baltimore, Md.

### 6025—Butchers' Saw Punching Machines

Nichols Bros., Greenfield, Mass.

### 6026—Butchers' Skewer Machinery

Fay, J. A. & Egan Co., Cincinnati, O.
Smith, H. B. Machine Co., Smithville, N. J.

### 6026a—Butt Drilling & Milling Machines

**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 6027— Butter Dish Machinery

Merritt Mfg. Co., Lockport, N. Y.
Saranac Machine Co. (Automatic & Stapling Mach'y), St. Joseph, Mich
Titus, E. E., Petersburg, Va.

### 6028—Butter Printing & Cutting Machines

American Butter Cutting Machine Co., 21 Jay, New York
Burrell, D. H. & Co. ("American"), Little Falls, N. Y.
Cleveland Faucet Co. ("Elgin" Butter Cutter), Cleveland, O.

### Butter Tub Machinery

(See Tub & Pail Machinery)

### 6029— Button Machinery

Barry Mfg. Co., Muscatine, Ia.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO. (Sheet Metal),** Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Button Machinery Co., Springfield, Mass.
Defiance Button Machine Co. (Button Covering), 53 E 8th, New York
Draher, John, Waterbury, Conn.
Grimes & Harris (Horn), Leominster, Mass.
Illinois Modern Machine Co., 507 W Jackson boul., Chicago, Ill.
McCordy Button Machinery Co., Amsterdam.
Manville Bros. Co., Waterbury, Conn. N.Y.
Russel, Jno. W. & Sons Co., Springfield, Mass.
Waldron, John Co. (Ivory Button Machinery), New Brunswick, N. J.
Waterbury Button Co. (Button Covering), Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 6029a—Button Sewing Machines

Union Button Sewing Machine Co., 184 High, Boston, Mass.

### 6030— Buttonhole Machines

Champion Buttonhole Machine Co., 10 High, Boston, Mass.
Lufkin, John W., 38 Chardon, Boston, Mass.
National Machine Co., Mamaroneck, N. Y., & Troy, N. Y.
Reece Buttonhole Machine Co., Boston, Mass.
Singer Sewing Machine Co., 149 Broadway, New York
Standard Sewing Machine Co., Cleveland, O.

### 6031—Cabbage Machinery (Canners')

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Shredder Mfg. Co. ("Simplex" Cabbage Cutting, etc.), Jackson, Mich.
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6032— Cabbaging Machines

Famous Mfg. Co. (Hand, for Brass Fdrs., etc.), East Chicago, Ind.

### Cable Covering Machines

(See Wire & Cable Covering Machinery)

### 6033—Cable Haulage Machinery

**LESCHEN, A. & SONS ROPE CO., 930** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Superior Iron Works, Superior, Wis.

### 6034—Cabling & Armoring Machines

Watson Machine Co., Paterson, N. J.

### Calcined Plaster Machinery

(See Gypsum Machinery)

### 6035— Calculating Machines

(See also Adding Machines)

Calculagraph Co., 9 Maiden la, New York
Duntley Mfg. Co., 234 Michigan av, Chicago,
Dupligraph Co., 43 State, Detroit, Mich. Ill.
Ensign Mfg. Co. ("Ensign," Electric), Boston, Mass.
Hamburger, Felix ("Brunsoiga"), 78 5th av, New York
Hnide, James J. Co. ("Calculus"), Ellastone bldg, Cleveland, O.
Mechanical Accountant, 8 Warren, Providence, R. I.
Morse, O. R. Mfg. Co. ("Morse"), 177 Madison, Chicago, Ill.
Morse, Herbert N. ("Calecumeter" Desk Adding Machines), Trenton, N. J.
Morschhauser, W. A. ("Millionaire"), 1 Madison av, New York

### 6036— Calendering Machines

Arthur Co., 188 Front, New York
Black-Clawson Co., Hamilton, O.
Butterworth, H. W. & Sons Co. (Embossing), Phila., Pa
Currier, Cyrus & Sons, Newark, N. J.
Curtis & Marble, Worcester, Mass.
Downington Mfg. Co., East Downington, Pa.
Farrel Foundry & Machine Co., Ansonia, Conn.
Holyoke Machine Co., (Breaker, Friction, Web, etc.), Holyoke, Mass.
Kilburn, Lincoln & Co. (Inc.), Fall River, Mass.
Lowell Machine Shop, Lowell, Mass.
Norwood Engineering Co. (Breaker, Friction Web, etc.), Florence, Mass.
Poole Engineering & Machine Co., Woodberry Sta., Baltimore, Md.
Rice, Burton & Fales Machine & Iron Co., Worcester, Mass.
Terhune, J. I., Paterson, N. J.
Textile Finishing Machinery Co. (Pressure & Friction), Providence, R. I.
**Waldron, John Co. (For Paper Mills), New Brunswick, N. J.**
Watson Machine Co. (Embossing, Pressure & Friction, etc.), Paterson, N. J.

### 6037— Calipering Machines

Rogers, Jno. M. Works, Gloucester City, N. J.

### 6038— Calking Machines

American Calking Machine Co. ("American," for Horseshoers), Perry, Ia.
L. S. P. Calking Machine Co. (For Horseshoers), Wyalusing, Pa.

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### 6039— Cam Cutting Machines

Fay Machine Tool Co. ("Fay" Automatic), 2d & Glenwood av, Phila., Pa.
Manville Bros. Co., Waterbury, Conn.
Rowbottom Machine Co., Waterville, Conn.
Standard Machinery Co., Providence, R. I.

### 6040— Can Beading Machines

(See also Crimping & Beading Machines)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL W'KS.** Buffalo, N. Y. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.

### 6041—Can Body Forming Machines

**AMERICAN CAN CO. (Mach'y Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)**
Ams, Max Machine Co., Mount Vernon, N. Y.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Jones Machine Co. (With Side Seam Soldering Attachment), Baltimore, Md.
Leffler, Chas. & Co. (Hand & Power), 49 Clymer, Brooklyn, N. Y.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.
Stevenson & Co., Baltimore, Md.

### 6042— Can Boxing Machines

**SPRAGUE CANNING MACHINERY** Co. ("Knapp," for Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6043—Can Burnishing Machines

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

### 6044— Can Capping Machines

**AMERICAN CAN CO. (Mach'y Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)**
Ams, Max Machine Co. (Power), Mount Vernon, N. Y.
Ayars Machine Co. (Hand & Power), Salem, N. J.
Chicago Solder Co. ("Chicago"), 218 N Union, Chicago, Ill.
Cottingham, Harrison (Hand), Baltimore, Md.
Jones, John T. Sons, 211 E Falls av. Baltimore, Md.
Renneburg, E. & Sons Co. (Hand), Baltimore, Md.
Robins, A. K. & Co. (Hand), Baltimore, Md.
Sherman, S. F. ("Hawkins"), Utica, N. Y.
**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Steward, L. & J. A. (Power), Rutland, Vt.

### 6045—Can Cleaning & Washing Machines

Astoria Iron Works (Inc.) ("Jansen's" for Salmon Canneries, etc.), Astoria, Ore.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6046— Can Crimping Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Jones Machine Co. (For Can Ends, etc.), Baltimore, Md.
Lewis, E. J., Middleport, N. Y.
Slaysman & Co., Baltimore, Md.

### 6047— Can Filling Machines

Ams, Max Machine Co., Mount Vernon, N. Y.
Astoria Iron Works (Inc.) (For Salmon Canneries, etc.), Astoria, Ore.
Ayars Machine Co. ("King" or "Stevens" for Tomatoes, Apples, Peas, etc.), Salem, N. J.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Climax Machinery Co. ("Climax," Automatic for Milk), Indianapolis, Ind.
Cottingham, Harrison (Fruits, Vegetables & Oysters), Baltimore, Md.
Day, J. H. Co., Cincinnati, O.
Elgin Mfg. Co. ("Elgin" Rotary Condensed Milk-Filling Machines), Elgin, Ill.
Howes, S. Co. ("Eureka"), Silver Creek, N. Y.
Haller, Joseph F. Co., Sheridanville P. O., Pittsburg, Pa.
Howes, S. Co. ("Eureka"), Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor." for Beans, Berries, etc.), Silver Creek, N. Y.
Pneumatic Scale Corp., Boston, Mass.
Robins, A. K. & Co. (Tomato, etc.), Baltimore, Md.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Sinclair-Scott Co. (Bucklin" Pea Filler), Baltimore, Md.
**SPRAGUE CANNING MACHINERY** Co. ("Moore & Bristol's," "Colbert," "Jersey Queen," "Stevens' King," for Tomatoes, Corn, etc.), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stickney, Henry R. (For Evaporated Cream, Baked Beans, Fats, Oils, Mustard, etc.), Portland, Me.
Weiscopf, L. ("Haller," Automatic for Catsup, Mustard, etc.), 20 Vesey, New York

### 6048— Can Heading Machines

Ams, Max Machine Co. (Automatic Double Seamers), Mount Vernon, N. Y.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Slaysman & Co., Baltimore, Md.

### Can Labeling Machines

(See Labeling Machines)

### 6049—Can Lacquering Machines

Burt Machine Co., Baltimore, Md.
Seeley Bros. ("Hughlett"), Blaine, Wash.

### 6050— Can Lining Machines

Ams, Max Machine Co. (Adjustable, Round, Square, Covers, etc.), Mount Vernon, N. Y.

### 6051— Can Makers' Machinery

Adriance Machine Works (Soldering & Sanitary) 254 Van Brunt, Brooklyn, N. Y
**AMERICAN CAN CO. (Mach'y Dept.),** 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
American Key Can Co. (For Key Opening Cans), 204 Dearborn, Chicago, Ill.
Ams, Max Machine Co. (Air Tight Seam without Solder or Acid, etc.), Mount Vernon, N. Y.
Astoria Iron Works (Inc.) ("E. K. & M." Can Body Making & Soldering), Astoria, Oreg.
Ayars Machine Co., Salem, N. J.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Consolidated Press & Tool Co., 127 N Canal, Chicago, Ill.
Ferraeute Machine Co., Bridgeton, N. J.
Holden Mfg. Co., 216 S Jefferson, Chicago, Ill.
Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.
McDonald Machine Co. (Automatic Lock Seamer, Can Tester, etc.), 3207 Shields av, Chicago, Ill.
Mitchell, Jno. R. Co., Baltimore, Md.
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Scandinavian Can & Machine Co., Southwest Harbor, Me.
**Slaysman & Co. (Automatic), Baltimore, Md.**
Stevenson & Co., 601 S. Caroline, Baltimore, Md.
Steward, L. & J. A. (Seamers), Rutland, Vt.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Utica Industrial Co. (Automatic Can Machinery), Utica, N. Y.
Wold, Torris & Co. ("Cameron" Lockseamer, Header, etc.), 218 N Jefferson, Chicago, Ill.

### 6051a— Can Marking Machines

**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6052— Can Polishing Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Climax Machinery Co., Indianapolis, Ind.
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

### 6053— Can Righting Machines

**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6054— Can Scoring Machines

Ams, Max Machine Co. (Adjustable Power), Mount Vernon, N. Y.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6055—Can Slitting Machines

Ams, Max Machine Co. (Gang), Mount Vernon, N. Y.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Slaysman & Co., Baltimore, Md.

### 6056—Can Stamping Machines (Automatic)

Consolidated Stamp Mfg. Co. ("Perfect"), 87 Maiden la, New York
Perfect Automatic Can Stamper Co., Le Roy, N. J.
Slaysman & Co., Baltimore, Md.
Steam Appliance Mfg. Co., Batavia, N. Y.

### 6056a—Can Sterilizing Machines

**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### Can Testing Machines

(See Testing Machines, Can)

### 6057—Can Top Folding Machines

**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

### 6058—Can Weighing Machines

Smith Cannery Machines Co. (Automatic), Seattle, Wash.

### 6059— Can Wiping Machines

Ayars Machine Co., Salem, N. J.
Jones Machine Co. (Can End Wipers), Baltimore, Md.
Morral Bros., Morral, O.
Slaysman & Co., Baltimore, Md.
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6060— Can Wrapping Machines

Burt Machine Co., Baltimore, Md.

### 6061—Can & Jar Washing Machines

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6062— Cancelling Machines

Bright, H. V. (For Ticket Chopper), Cleveland, Ohio
Cummins, B. F. Co. (Plain & Dating, etc.), 4740 W Ravenswood Park, Chicago, Ill.

### 6063— Candle Machinery

Blettner, Jos. B. & Co., Cincinnati, O.
Brewer, Wm. W., Troy, N. Y.
Brown & Patterson, 33 Marcy av, Brooklyn, N. Y.
Homan & Co. (Molds, etc.), Cincinnati, O.
Houchin, Aiken Co., 37 53d, Brooklyn, N. Y.

### 6064— Candy Floss Machines

Empire Candy Floss Machine Co. ("Empire"), 1225 Wabash av, Chicago, Ill.

### Candy Machinery

(See Confectioners' Machinery)

### Candy Vending Machines

(See Vending Machines)

### 6065—Cane-Seat Chair Machinery

(See also Chair Machinery)

Goodspeed Machine Co. (Chair Seat Grooving Machinery), Winchendon, Mass.
Purdy Machine Co. (Also Wood Seat), Ghent, O.
Remington Machine Co., Wilmington, Del.
Scow Bay Iron & Brass Works, Astoria, Ore.

### Cane Sugar Machinery

(See Sugar Machinery. For page number consult Index of Contents)

### 6066—Canners' Fruit Washing & Scalding Machines

Vance & Baker Mfg. Co. ("Grasshopper"), Muscatine, Ia.

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## 6067— Canning Machinery

Ams, Max Machine Co. (For making & Selling Tin Cans), Mount Vernon, N. Y.
Astoria Iron Works (Inc.), Astoria, Ore.
Ayars Machine Co., Salem, N. J.
**BLISS, E. W. CO. (For Making Package & Sanitary Cans), 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Burpee & Letson (Ltd.), Bellingham, Wash.
Burt Machine Co., Baltimore, Md.
Chicago Solder Co., 218 N Union, Chicago, Ill.
Climax Machinery Co., Indianapolis, Ind.
Conant, R. O. Co., Portland, Me.
Cottingham, Harrison, Baltimore, Md.
Cox Bros. & Co., Bridgeton, N. J.
Fancher Machine Co., Baldwinsville, N. Y.
Gaumer, John L. Co. ("Mudge" Canner), 22d & Wood, Phila., Pa.
Hastings Industrial Co., Lake & Lasalle, Chicago, Ill.
Hermetic Closure Co. (For Cold Products in Glass by Vacuum Process), 2444 W 16th, Chicago, Ill.
Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
Jones, John T. Sons, 211 E Falls av, Baltimore, Md.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Knapp, Fred. H. & Co., Westminster, Md.
Lang, E. M. Co. (Soldering Machines, Capping Irons, Solder, Presse, etc.), Portland, Me.
Lewis, E. J., Middleport, N. Y.
McDonald Machine Co., 3207 Shields av, Chicago, Ill.
Mitchell, Jno. R. Co., Baltimore, Md.
Morral Bros. (Corn Cutter, Silk Brushing Cooker Filler, etc.), Morral, O.
**NIAGARA MACHINE & TOOL W'KS, Buffalo, N. Y.** (See adv. index, end of book)
Renneburg, Edw. & Sons Co., Baltimore, Md.
Robins, A. K. & Co., Baltimore, Md.
Sherman, Sanford F., Utica, N. Y.
Sinclair-Scott Co., Baltimore, Md.
Stevenson & Co., Baltimore, Md.
Stickney, Henry R. (Filling & Syruping, etc.), Portland, Me.
Stiles-Morse Co. (End Seam Soldering Machines), 562 N Wash'n, Chicago, Ill.
**SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill.** (See adv. index, end of book)
Thompson Mfg. Co., Lancaster, N. H.
Vance & Baker Mfg. Co., Muscatine, Ia.
Zastrow, Geo. W., 1404 Thames, Baltimore, Md.

## 6068— Canting Machines

**ALLIS-CHALMERS CO. (Overhead),** Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 6069— Capping Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Cox Bros. & Co., Bridgeton, N. J.
Dicke Tool Co., Downers Grove, Ill.
Lang, E. M. Co., Portland, Me.
Steward, L. & J. A., Rutland, Vt.

## 6070— Capsule Machines

Colton, Arthur, Co., Detroit, Mich.
Mulford, H. K. Co., 412 S 13th, Phila., Pa.
Stokes, F. J. Machine Co., Phila., Pa.

## 6071— Car-Boring Machines

American Wood Working Machinery Co., Rochester, N. Y., & West St bldg, New York
Bentel & Bargedant Co. (Heavy Vertical, 3 & 6 Spindle), Hamilton, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.; Factory: Rockford, Ill.
Powers, L. & Co. (Est. of), 22 S 23d, Phila., Pa.

## 6072—Car Box Boring Machines

Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.
Niles-Bement-Pond Co., 111 B'way, New York
Pittsburg Machine Tool Co., N S, Pittsburg, Pa.

## 6073—Car Box Grinding Machines

Diamond Machine Co., Providence, R. I.

## 6074—Car Dumping Machinery

(See also Dumpers, Car)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

## 6075—Car Link & Pin Machines

National Machinery Co., Tiffin, O.

## 6076—Car Spring Coiling Machines

(See also Spring Coiling Machines; also Wire Spring Coiling Machines)
Coulter & McKenzie Machine Co., Bridgeport, Conn.

## 6077—Car Wheel Boring Machines

Baker Bros., Toledo, O.
Betts Machine Co., Wilmington, Del.
Bickford, H. & Co., Lakeport, N. H.
Newton Machine Tool Works, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Prentice Bros., Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

## 6077a—Car Wheel Cleaning Machines

**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## Car Wheel Molding Machines

(See Molding Machines, Foundry)

## 6078—Car & Carriage Spring Machinery

Coulter & McKenzie Machine Co. (Car), Bridgeport, Conn.
Evans', Jno. Sons, 13th & Buttonwood, Phila., Pa.
Johnston, Wm. T. & Co. (Spring Forming), Cincinnati, O.

## 6079—Carbon Cutting Machines

Lundin Electric & Machine Co. (Electrical), with Switch), 10 Thacher, Boston, Mass.

## 6080— Carbon Machinery

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)

## 6081— Carbon Paper Machinery

Waldron, Jno. Co., New Brunswick, N. J.

## 6082— Carbonating Machinery

American New System Carbonating & Dispensing Apparatus Co., 407 Broome, New York
Automatic Carbonator Mfg. Co., Minneapolis, Minn.
Goetz & Flodin Mfg. Co., Clybourn av & Willow, Chicago, Ill.
Liquid Carbonic Co., 420 N Wells, Chicago, Ill.

## 6082a—Cardboard Sawing Machines (Wood)

Grammes, L. F. & Sons (Combination Rip & Cross-Cut), Allentown, Pa.

## 6083—Cardboard Slitting Machines

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

## 6084— Card Cutting Machines

(See also Card Cutting Machines, Textile)
American Specialty Co. ("Premium" Hand Card & Paper Cutter for Office Use), Bridgeport, Conn.
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**BLISS, E. W. CO. (Playing Cards),** 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Dietz Machine Works (Rotary, for Jacquard, Index, Commercial & Slot Machine Cards & R. R. Tickets, etc.), 126 Fontain, Phila., Pa.
Grammes, L. F. & Sons ("Handy" Hand, etc.), Allentown, Pa.
Hinze, H. (Rotary), Tribune bldg, New York
Jacques, Jno. & Son, Worcester, Mass.
Marshall, Son & Co. ("Superior" Hand Card Cutter), 226 Purchase, Boston, Mass.
Otten Bros. 40 W Larned, Detroit, Mich.
Robinson, Jno. T. Co., Hyde Park, Mass.

## 6085—Cargo Transfering Machinery (Marine Transfer)

**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 6086—Carpet Cleaning Machinery

Chief Mfg. Co., Indianapolis, Ind.
Cleveland Laundry Mach'y Co., Cleveland, O.
Reed Mfg. Co. (Carpet Cleaning Wheels), Springfield, O.

## Carpet Sewing Machines

(See Sewing Machines)


# SPRAGUE CANNING MACHINERY CO.

MANUFACTURERS OF

# CANNING MACHINERY and SUPPLIES

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DANIEL G. TRENCH & CO., General Agents


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### 6087—Carriage Builders' Machinery
(See also Hub, Spoke & Rim Machinery)

Abbott & Co. (Hub Bored), Hudson, Mich.
American Woodworking Mach'y Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory, Rockford, Ill.
Heartley Machine Variety Iron & Tool Works, Toledo, O.
Kane & Roach, Syracuse, N. Y.
Williams, White & Co., Moline, Ill.

### Carriage Spring Machinery
(See Car & Carriage Spring Machinery)

### 6088—Carton Sealing Machines
American Carton Sealing Machine Co., 1520 Johnson, Chicago, Ill.
Weyant, T. Romer ("Weyant"), Buffalo, N. Y.

### 6089— Cartridge Machines
Blake & Johnson Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### Carving Machines
(See Wood Carving Machines)

### 6090—Carving Machines (Corner Block)
Fay, J. A. & Egan Co., Cincinnati, O.
Smith, H. B. Machine Co., Smithville, N. J.

### 6091—Carving Machines (Pattern Makers')
Porter, C. O. Machinery Co., Grand Rapids, Mich.

### 6092—Case Hardening Machines
(See also Furnaces, Annealing & Case Hardening)

**AMERICAN GAS FURNACE CO.,** 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

### 6093—Cast Iron Pipe Cutting Machines
Smith, A. P. Mfg. Co. ("French"). East Orange, N. J.

### Casting Machines
(See Molding Machines, Foundry)

### 6094— Catsup Machines
Cottingham Harrison, Baltimore, Md.
Howes, S. Co., Silver Creek, N. Y.
Sinclair-Scott Co., Baltimore, Md.
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### Ceiling Machinery
(See Sheet Metal Workers' Machines, Etc.)

### 6095— Celluloid Machinery
Cook, F. H. & Co., Leominster, Mass.
Farrel Foundry & Machine Co., Ansonia, Conn.

### 6096— Cement Brick Machines
(See also Concrete Building Block Machinery)

Ashland Steel Range & Mfg. Co. ("U. S."), Ashland, O.
Besser Mfg. Co., Alpena, Mich.
Burrell Mfg. Co. ("X-L-All" Hand Power), Bradley, Ill.
Cement Machinery Co. ("Favorite"), Jackson, Mich.
Colgan Machinery & Supply Co., Columbus, O.
Co-Operative Foundry Co., Detroit, Mich.
Enamel Concrete Co. (Enameled Concrete Brick), Des Moines, Ia.
Francis Mach'y Co., 109 Market, St. Louis, Mo.
Gearless Co. ("Gearless"), Gloversville, N. Y.
Helm Brick Machine Co. ("Helm"), Traverse City, Mich.
International Brick Machine Co., Binghamton, N. Y.
La Grange Specialty Co. ("Little Giant"), La Grange, Ind.
**MARSH CO. ("Miracle"), 975 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Moore Plow & Implement Co., Greenville, Mich.
Northwestern Steel & Iron Works ("Northwestern," Tin Brick), Eau Claire, Wis.
Oklahoma & Texas Cement Brick Co., Oklahoma City, Okla.
Peerless Brick Machine Co. ("Peerless")), Minneapolis, Minn.
Perfect Brick Machine Co. ("Perfect"), Kendallville, Ind.
Queen City Brick Machine Co. ("The Helm" Press), Travers City, Mich.
Schwab, R. J. & Sons Co., Milwaukee, Wis.
Western Brick Machine Co., La Crosse, Wis.

### 6096a—Cement Burial Vault Machinery
Ball & Brookshire ("Hoosier" Molds), Thorntown, Ind.

### Cement Drain Tile Machines
(See Cement Sewer Pipe Machinery)

### 6097— Cement Machinery
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Clay Machinery Co., Bucyrus, O.
Barnard & Leas Mfg. Co. (Cement Packers), Moline, Ill.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bonnot Company, Canton, O.
Bradley Pulverizer Co. ("Griffin Mill"), 92 State, Boston, Mass.
Burrell Mfg. Co., Bradley, Ill.
Century Cement Machine Co., Rochester, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th. Phila., Pa.
**CROSSLEY MACHINE CO. (Cement** Grinding Mills), State & Monmouth, Trenton, N. J. (See adv. index, end of book)
Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.
Emerick, Geo. S. (Crushers, Dryers), Nazareth, Pa.
Great Western Mfg. Co., Leavenworth, Kan.
Hancock-Holmes Fdry. & Machine Works, Atlanta, Ga.
Howes, S. Co. (Cement Packers), Silver Creek, N. Y.
Kent Mill Co. (Pulverizers, etc.), 170 B'way. New York
Learner, P. H. ("Learner" Cement Flue), Kokomo, Ind.
**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Martin, Wm. R., Lancaster, Pa.
Mashek Engineering Co., 90 West, New York
Mosser, W. F. & Son (Rotary Crushers), Allentown, Pa.
Newell Mfg. Co. (Cement Mills), 149 B'way, New York
Nordyke & Marmon Co., Indianapolis, Ind.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Prosser, Thos. & Son, 15 Gold, New York
Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.
**REEVES BROS. CO. (For Wet or Dry** Process), Alliance, O. (See adv. index, end of book)
Robins Conveying Belt Co. (Belt Conveyors), 15 Park row, New York
Sackett, August J., Baltimore, Md.
**SCHULE, F. H. CO. (Automatic** Scales), 114-118 Liberty, New York. (See adv. index, end of book)
Smidth, F. L. & Co., 50 Church, New York
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Sturtevant Mill Co., Boston, Mass.
**THROOP'S, JOHN E. SONS CO. (Tube** Mills), ft. of Lewis, Trenton, N. J. (See adv. index, end of book)
Traylor Engineering Co., Allentown, Pa.
Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.
United Iron Works Co. (Cooling Towers, Sturry Tanks, Pug Mills, Slacking Machines, etc.), Springfield, Mo.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walker & Elliott (Mixers), Wilmington, Del.
**WEBSTER MFG. CO. (Elevating &** Conveying Appliances), 2410 W 15th. Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

### Cement Moulding Machines
(See Concrete Building Block Machinery)

### 6098—Cement Porch Column Machinery
Simpson Cement Mold Co. ("Simpson" Mold), Columbus, O.

### 6099— Cement Post Machinery
Cement Machinery Co. ("Universal"), Jackson, Mich.
Cement Post & Pole Co., Cedar Rapids, Ia.
D. & A. Post Mold Co. (Inc.), Three Rivers, Mich.
Francis Machine Co., 109 Market, St. Louis, Mo.
Goodwin, H. E., Indianapolis, Ind.
Kerlin Automatic Post Machine Co. ("Kerlin," Automatic), Delphi, Ind.
Lake City Cement Machinery Co., Lake City, Ia.
**MARSH CO. ("Miracle"), 975 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

### Cement Roofing Tile Machinery
(See Cement Shingle Machinery)

### 6100—Cement Sewer Pipe Machinery
Besser Mfg. Co. (Hand & Power Machines for Drain Tile & Sewer Pipe), Alpena, Mich.
Cement Machinery Co., Jackson, Mich.
Cement Tile Machinery Co. ("Schank"), Waterloo, Ia.
Concrete Stone & Sand Co. ("Pauly"), Youngstown, O.
Diamond Concrete & Stone Construction Co., Tacoma bldg, Chicago, Ill.
Lake City Cement Machinery Co. (Drain Tile), Lake City, Ia.
**MARSH CO. ("Miracle"), 975 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Quinn Wire & Iron Works ("National" Automatic for Large Cement Tile), Boone, Ia.
Raber & Lang Mfg. Co. ("Crescent" Molds for Drain Tile), Kendallville, Ind.
Sioux City Cement Machinery Co. ("McCracken" Drain Tile Machines), Sioux City, Ia.
Smidth, F. L. & Co., 50 Church, New York
Waterloo Cement Mach. Co., Waterloo, Ia.
Wilson & Baillie Mfg. Co., 26 Court, Brooklyn, N. Y.
X-L-All Mfg. Co. ("Ferguson" Drain Tile Machines), 21 S Clinton, Chicago, Ill.

### 6101—Cement Shingle Machinery
American Cement Roofing Co., Columbus, O.
Diamond Cement Machine Co. ("Diamond"), Toledo, O.
Hansen, L. Co. ("U. S. Champion"), Kansas City, Mo.
Janesville Cement & Shingle Co., Janesville, Wis.
Learner, P. H. ("Learner"), Kokomo, Ind.
Youngstown Roofing Tile Mach'y Co., Youngstown, O.

### 6101a—Cement Sidewalk Tile Machines
**MARSH CO. ("Miracle"), 975 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6102—Cement Slacking Machines
(See also Cement Machinery)

United Iron Works Co., Springfield, Mo.

### Cement Testing Machines
(See Testing Machines, Cement)

### 6103—Cement Weighing Machines (Automatic)
Avery Scale Co. ("Avery"), North Milwaukee, Wis.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

### 6104— Centering Machines
Binghamton Machine Works, Binghamton, N. Y.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Heathcote, John & Son, Providence, R. I.
Hendey Machine Co., Torrington, Conn.
Hurlbut-Rogers Machine Co., So. Sudbury, Mass.
Kempsmith Mfg. Co. (Shaft), Milwaukee, Wis.
National Machine Co., Hartford, Conn.

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Nazel Engineering & Machine Works, 4041 N 5th, Phila., Pa.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Phoenix Mfg. Co., Hartford, Conn.
Pratt & Whitney Co., Hartford, Conn.
Wells, F. E. & Son Co., Greenfield, Mass.
Whiton, D. E. Machine Co. ("Whiton" Revolving), New London, Conn.

### 6105—Centrifugal Machines (Laboratory)

**Bausch & Lomb Optical Co., Rochester, N. Y.**
Lonergan, J. E. & Co. ("Leffman's"), 211 Race, Phila., Pa.

### Cereal Roasting Machines

(See Coffee, Peanut, Etc., Roasting Machines)

### 6106—Chain Link Coiling Machines

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

### 6107—Chain Making Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Breul, Fred G. (Automatic), Bridgeport, Conn.
Garvin Machine Co. (Bicycle), 137 Varick, New York
Rowbottom Machine Co., Waterville, Conn.
Turner, Vaughn & Taylor Co. (For Welded Chains, etc.), Cuyahoga Falls, O.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 6108—Chain Mining Machines

(See also Coal Cutting Machines)
Goodman Mfg. Co., Halsted & 48th pl, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Morgan Gardner Electric Co., 2632 Shields av, Chicago, Ill.

### Chain Testing Machines

(See Testing Machines, Chain)

### 6109—Chain Welding Machinery

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

### 6110—Chair Back Post Bending Machines

Jenkins Machine Co., Sheboygan, Wis.

### 6111—Chair Leg Bending Machines

Jenkins Machine Co. (For Front Legs, etc.), Sheboygan, Wis.

### 6112—Chair Leg Boring Machines

Jenkins Machine Co., Sheboygan, Wis.

### 6113— Chair Machinery

(See also Cane-Seat Chair Machinery)
American Wood Working Machinery Co., Rochester, N. Y.
Bancroft & Barnard Co., Gardner, Mass.
Chase Turbine Mfg. Co. (Chair Back Machines), Orange, Mass.
Cordesman, Rechtin Co., Cincinnati, O
Fay, J. A. & Egan Co., Cincinnati, O
Gardner Machine Works (E. N. & W. H. Hobby, Prop's), Gardner, Mass.
Goodspeed Machine Co., Winchendon, Mass.
Jenkins Machine Co., Sheboygan, Wis.
Linderman Machine Co., Muskegon, Mich.
McKnight, L. G. & Son, Gardner, Mass.
Nash, J. M. (Special), Milwaukee, Wis.
Purdy Machine Co., Ghent, O.
Sawin, Edw. H., Gardner, Mass.
Whitney, Baxter D. & Son, Winchendon, Mass.

### 6114— Chair Seat Machinery

Jenkins Machine Co. (Jointers, Notchers, Scoopers), Sheboygan, Wis.
Linderman Machine Co. (Dovetail Jointer), Muskegon, Mich.

### 6115—Chamfering & Crozing Machines

**Ingle Machine Co. (Tooth), Rochester, N. Y.**

### Channeling Machines

(See Stone Channeling Machines)

### 6116—Charging Machines (Open Hearth)

Alliance Machine Co., Alliance, O.
American Furnace & Machine Co. ("Swindell," for Annealing Furnaces in Tin & Sheet Mills), Pittsburg, Pa.
**MORGAN ENGINEERING CO. (For** Billets, Blooms, etc.), Alliance, O. (See adv. index & branch offices, end of book)
Wellman-Seaver-Morgan Co. ("Wellman" Open Hearth Charging Machine & Boxes), Cleveland, O.

### 6117— Cheese Box Machinery

Berlin Machine Works, Beliot, Wis.
Goo & Hopkins, Delavan, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Jones, Frank L., Utica, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
Oakes & Burger, Cattaraugus, N. Y.

### 6118—Cheese Factory Machinery

Burrell, D. H. & Co., Little Falls, N. Y.
Creamery Package Mfg. Co., 61 W. Kinzie, Chicago, Ill.
Fargo Creamery Supply House, Lake Mills, Wis.
Gehl, M. C. Co., Milwaukee, Wis.
Jones, Frank L., Utica, N. Y.

### 6119— Chemical Machinery

Hancock-Holmes Foundry & Machine Works, Atlanta, Ga.
Patterson Fdry. & Mach. Co., E Liverpool, O.
Pratt Engineering & Machine Co., Atlanta, Ga.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.
Swenson Evaporator Co., Monadnock blk, Chicago, Ill.
**WERNER & PFLEIDERER,** Saginaw, Mich. (See adv. index, end of book)

### 6120—Chewing Gum Machines

Mills, Thos. & Bro., 3108 N 4th, Phila., Pa.
Savage Bros. Co., 321 W Michigan, Chicago, Ill.

### 6121—Chocolate Dipping Machines

Annen Candy & Biscuit Co., Green Bay, Wis.

### 6122— Chocolate Machinery

American Chocolate Machinery Co., 45 E 17th, New York
Carey, Sam'l (Complete Plants), 17 State, New York
Holmes & Blanchard Co., 31 State, Boston, Mass.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

### 6123— Chucking Machines

American Tool Works Co., Cincinnati, O.
Baker Bros. (Vertical), Toledo, O.
Beckford, H. & Co., Lakeport, N. H.
Brown & Sharpe Mfg. Co. (Horizontal & Vertical), Providence, R. I.
Bullard Machine Tool Co., Bridgeport, Conn.
Colburn Machine Tool Co. (Vertical), Franklin, Pa.
Davis, W. P. Machine Co. (Horizontal), Rochester, N. Y.
Deer, A. J. Co., Hornell, N. Y.
Fay & Scott, Dexter, Me.
Garvin Machine Co., Spring & Varick, New York
Gisholt Machine Co. (Turret Lathes for Finishing Castings & Forgings), Madison, Wis.
Hamilton Machine Tool Co., Hamilton, O.
Johnson, I. H., Jr., Co. (Inc.), Philadelphia, Pa.
Jones & Lamson Machine Co., Springfield, Vt.
King Machine Tool Co., Cincinnati, O.
Le Blond, R. K. Machine Tool Co., Cincinnati, O.
Lodge & Shipley Machine Tool Co., 3055 Colerain av, Cincinnati, O.
Niles-Bement-Pond Co. (Horizontal), 111 Broadway, New York
Potter & Johnston Machine Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
Quint, A. D. (Vertical), Hartford, Conn.
Reed, F. E. Co., Worcester, Mass.
Rogers Machine Tool Co., Alfred, N. Y.
Springfield Machine Tool Co., Springfield, O.
Warner & Swasey Co., Cleveland, O.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.


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### 6124—Chucking & Turning Machines (Automatic)

Hartford Machine Screw Co., Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Potter & Johnson Machine Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.

### Cider Making Machinery

(See Wine Making Machinery)

### 6125— Cigar Box Machinery

Doig, Wm. S. (Box Nailing, etc.), 54 Franklin, Brooklyn, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Johnston, Wm. T. Co. (Lumber Imitation), Cincinnati, O.
Shirk, P. E., Blue Ball, Pa.

### 6126—Cigar Bunching Machines

National Selling Co., Allentown, Pa.

### 6127— Cigar Machinery

Detroit Cigar Machine & Tool Co., 914 Hastings, Detroit, Mich.
Ermold, E. (Branding Machine), 652 Hudson, New York
Grammes, L. F. & Sons, Allentown, Pa.
Liberman Mfg. Co., 812 Winter, Phila., Pa.
Miller, Dubrul & Peters Mfg. Co. (& Moulds, etc.), Cincinnati, O.
Strieder, J. W. (Banding Machines, Automatic), 178 Ruggles, Boston, Mass.

### 6127a—Cigar Re-Packing Machines

National Selling Co., Allentown, Pa.

### 6128—Cigarette Box Machinery (Tin)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6128a—Cigarette Box Machines

Dietz Machine Works, 126 Fontain, Phila., Pa.

### 6129— Cigarette Machinery

Comas Cigarette Machine Co., Salem, Va.
Ludington Cigarette Machine Co., Waterbury, Conn.
Miller, Dubrul & Peters Mfg. Co., Cincinnati, Ohio
United Cigarette Machine Co., Lynchburg, Va.
Winston Cigarette Machine Co., Winston, Salem, N. C.

### 6130—Circular Folding Machines

Leffler, Charles & Co. (Used in Packing Baking Powder, Medicines, etc.), 63 Clymer, Brooklyn, N. Y.

### 6131—Circular Re-Sawing Machines

Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.

### Circular Stone Sawing Machines

(See Stone Sawing Machinery, with the words Circular Sawing following their names)

### 6132—Circular Wood Sawing Machines

Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.
Berlin Machine Works, Beloit, Wis.
Comstock, Geo. S. (Steel Frame), Mechanicsburg, Pa.
Kidder, R. E. (For Ripping & Cross Cutting), Worcester, Mass.
Lyon Iron Works, Greene, N. Y.
Spangler Mfg. Co., York, Pa.

### 6133— Clapboard Machinery

Lane Mfg. Co., Montpelier, Vt.
Union Iron Works, Bangor, Me.

### 6134—Clay Building Block Machinery

(See also Brick Machinery, also Brick Press Machines)

American Clay Machinery Co., Bucyrus, O.
Anderson Foundry & Machine Works, Anderson, Ind.
Bonnot Company, Canton, O.
Brewer, H. & Co., Tecumseh, Mich.
Fate, J. D. Co., Plymouth, O.
Freese, E. M. & Co., Gallon, O.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

### 6135— Clay Cleaning Machinery

Hoffman, Richard G. ("Diesever," Clay Cleaner & Homogenizer), La Grange, Ill.
Lyle Clay Cleaner Co. (For Removal of Iron, Stone, etc. from Clays), 39 Cortlandt, New York

### 6135a—Clay Filtering Machinery

**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)

### 6136— Clay Grinding Machines

Anderson Foundry & Machine Works, Anderson, Ind.
**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Chambers Bros. Co., 52d, below Lancaster av, Phila., Pa.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Fernholtz Brick Machinery Co., St. Louis, Mo.
Rockwood Mfg. Co., Indianapolis, Ind.
Scott-Madden Iron Works Co., St. Louis, Mo.

### 6137—Clay Tempering Machinery

Carnell, Geo. (Est. of), 1819 N. 5th, Phila., Pa.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)

### 6138—Clay Washing Machinery

(See also Clay Cleaning Machinery)

**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Patterson Foundry & Machine Co., East Liverpool, O.
Raymond, C. W. Co., Dayton, O.

### Clay Working Machinery

(See Brick Press Machines, Etc.)

### 6139— Cleat Sawing Machines

Mereen-Johnson Machine Co. (Gang Cleat Saws), Minneapolis, Minn.

### 6140—Clock & Watch Makers' Machinery

**AMES, B. C. & CO., Waltham, Mass.** (See adv. index, end of book)
Blake & Johnson Co., Waterbury, Conn.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Draher, John, Waterbury, Conn.
Elgin Tool Works, Elgin, Ill.
**STARK TOOL CO., Waltham, Mass.** (See adv. index, end of book)
Waltham Machine Works, Waltham, Mass.

### 6141—Closing Machines for Friction Top Cans

**AMERICAN CAN CO. (Mach'y Dept.),** 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6142—Closing Machines for Steel Lead Kegs

**AMERICAN CAN CO. (Mach'y Dept.),** 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)

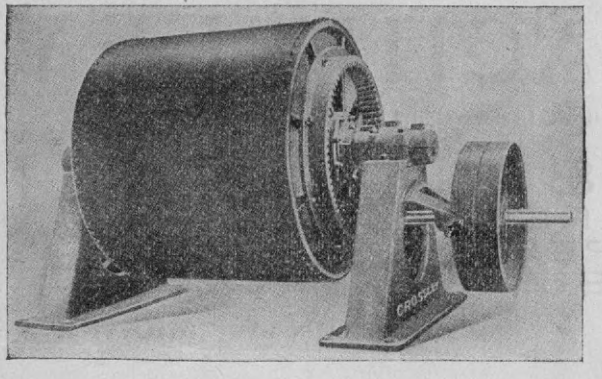
### Cloth Room Machinery

(See Textile Machinery & Supplies; for page number consult Index of Contents)

### 6143—Clothes Pin Machinery

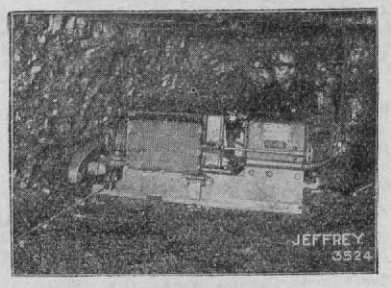
Goodspeed Machine Co., Winchendon, Mass.
Humphrey Machine Co., Keene, N. H.
Stauffer, Geo. E., East Stroudsburg, Pa.

When writing to firms whose names appear in this book please mention
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(See adv. index & branch offices, end of book)


### 6144—Coal Breaker Machinery

Finch Mfg. Co., Scranton, Pa.
Grant Iron Works, Mahoney City, Pa.
Milholland, J. & B. Co., Pittsburg, Pa.
Pennsylvania Crusher Co. ("Bradford"), Stephen Girard bldg, Phila., Pa.
Roberts & Schaeffer Co. ("Jumbo"), Old Colony bldg, Chicago, Ill.

### Coal Crushing Machinery

(See Crushers, Coal & Coke)

### 6145— Coal Cutting Machines

(See also Chain Mining Machines)

Goodman Mfg. Co. (Electric), Chicago, Ill.
Herzler & Henninger Machine Works, Belleville, Ill.
Hirst-Butler Electric Machine Co. ("Hirst-Butler," Electric), Reynoldsville, Pa.
**INGERSOLL-RAND CO. ("Radialaxe"** & "New Ingersoll"), 11 B'way, New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO. (Electric & Com**pressed Air), Columbus, O. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)
McKiernan-Terry Drill Co., 115 B'way, New York
Morgan-Gardner Electric Co. (Electric), Chicago, Ill.
Pneumelectric Machine Co. ("Pneumelectric" Coal Puncher), Syracuse, N. Y.
Prox, Frank Co. (Electric), Terre Haute, Ind.
**SULLIVAN MACHINERY CO. (Elec**tric & Air), Chicago, Ill. (See adv. index & branch offices, end of book)
Whitcomb, Geo. D. Co., Rochelle, Ill.

### 6146—Coal Mining Machinery

(See also Mining Machinery)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Morgan Co., 2015 Raymond, Chicago,
Bartlett, A. F. & Co., Saginaw, Mich. Ill.
Blair, Wakeling & Rice (Inc.) (Complete Equipment), Seattle, Wash.
Eagle Iron Works, Des Moines, Ia.
Ellison, Wm. & Sons Mfg. Co., St. Louis, Mo.
**EXETER MACHINE WORKS, Pitts**ton, Pa. (See adv. index & branch offices, end of book)
Finch Mfg. Co., Scranton, Pa.
Goodman Mfg. Co. (Electric), Halsted & 48th pl, Chicago, Ill.
Grant Iron Works (Mine & Breaker Machinery), Mahoney City, Pa.
Herzler & Henninger Machine Works, Belleville, Ill.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO. (Complete** Equipment), Columbus, O. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO., 930** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, enr of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.
Morgan-Gardner Electric Co., 2640 Shields av, Chicago, Ill.
Mount Carmel Iron Works, Mount Carmel, Pa.
Pacific Engineering Co. (Complete Equipment), Portland Ore.
Pittsburg Coal Washer Co., Pittsburg, Pa.
Prox, Frank Co., Terre Haute, Ind.
**SULLIVAN MACHINERY CO., People's** Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Tamaqua Mfg. Co., Tamaqua, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

### 6147—Coal Mining Machinery (Electric)

(See also Chain Mining Machines; also Coal Cutting Machines)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Goodman Mfg. Co., Halsted & 48th pl, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Morgan-Gardner Electric Co., 2640 Shields av, Chicago, Ill.
Ottumwa Iron Works, Ottumwa, Ia.
Pneumelectric Machine Co. ("Pneumelectric" Coal Puncher), Syracuse, N. Y.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

### Coal Punching Machines

(See Coal Cutting Machines)

### 6148—Coal Shearing Machines

**INGERSOLL-RAND CO. ("Radia**laxe"), 11 B'way, New York. (See adv. index & branch offices, end of book)

### 6149—Coal Tar Dumping Machines

**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N. E., Cleveland, O. (See adv. index & branch offices, end of book)

### 6150—Coal Washing Machinery

American Coal Washer Co., Alton, Ill.
American Concentrator Co. ("New Century"), Joplin, Mo.
Comstock, Geo. S. (Also for Ore Washing), Mechanicsburg, Pa.
Heyl & Patterson, Pittsburg, Pa.
**JEFFREY MFG. CO. ("Jeffrey"), Columbus, O. (See adv. index & branch offices, end of book)**
**LINK BELT COMPANY ("Luhrig,"** "Link Belt," "New Century" Processes), Hunting Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
Penn. Crusher Co. ("Penna. Bradford" Coal Cleaner), Stephen Girard bldg. Phila., Pa.
Pittsburg Coal Washer Co., Pittsburg, Pa.
Stroh, W. H., Mauch Chunk, Pa.
Tamapua Mfg. Co., Tamapua, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

### 6151—Coal & Ore Handling Machinery

(See also Conveyors, Coal)

Alliance Machine Co., Alliance, O.
**BARTLETT, C. O. & SNOW CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
Beaumont, R. H. & Co., Drexel bldg, Phila., Pa.
Bergen Point Iron Works, Bayonne, N. J.
**BROWN HOISTING MACHINERY CO.** (Coal Storage, Coal Unloaders, Car Dumpers, etc.), Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)
Browning Engineering Co. (Coal Unloaders, Car Dumps. etc.). Cleveland, O.
**CALDWELL, H. W. & SON CO., West**ern av & 17th, Chicago, Ill. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Conveying Machinery Co., 120 Liberty, New York
Denver Engineering Works Co., Denver, Colo.
Dodge, J. M. Co., Nicetown, Phila., Pa.
Eagle Fdry & Machine Co., Fort Scott, Kans.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairmont Mining Machinery Co. (Of All Kinds), Fairmont, W. Va.
Gifford-Wood Co., Hudson, N. Y.
Haise, Geo. Mfg. Co., 141st & Rider av, New York
Hamilton Mfg. Co. (Coal Loaders), Columbus, O.
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hoover & Mason, 9 Jackson boul, Chicago, Ill.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Illinois Stoker Co. (Coal & Ash Handling Machinery). Alton, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

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**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
McLanahan-Stone Machine Co., Hollidaysburg, Pa
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O. (Complete Plants)
Macdonald Engineering Co., Chicago, Ill
**MEAD-MORRISON MFG. CO. (Automatic),** Cambridge (Boston) Mass. (See adv. index & branch offices, end of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.
Mineral Ridge Mfg. Co., Mineral Ridge, O.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of yook)
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)
Robins Conveying Belt Co., 15 Park row, New York
Sackett, H. B. Screen & Chute Co., 1685 Elston av. Chicago, Ill.
Stephens-Adamson Mfg. Co., Aurora, Ill.
Toledo Bridge & Crane Co., Toledo, O.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Wellman-Seaver-Morgan Co. ("Hulett"), Cleveland, O.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Williams, White & Co. (Coal Handling Only), Moline, Ill.

## 6152—Coat & Hat Hook Machines (Automatic)

Morgan Spring Co., Worcester, Mass.
Nilson, A. H. Machine Co., Bridgeport, Conn.

## 6153—Coating Machines for Roofing

Moore & White Co., Phila., Pa.

## 6154—Coating Mill Machinery

Koegel, Chas. & Son, Holyoke, Mass.
Waldron, Jno. Co., New Brunswick, N. J.

## 6155— Cockle Machines

Prinz & Rau Mfg. Co., Milwaukee, Wis.
**SCHULE, F. H. CO., 114 Liberty, New** York. (See adv. index, end of book)

## 6156— Cocoa Machinery

Carey, Sam'l (Complete Plants), 17 State, New York

## 6157—Cocoa Plantation Machinery

Mason, Marcus & Co., Produce Exch, New York

## 6158—Cocoanut Oil Machinery

Pusey & Jones Co., Wilmington, Del.

## 6159—Coffee Cooling, Stoning & Elevating Machinery

Lambert Food & Machine Co., Marshall, Mich.
Prins Machinery Co., Battle Creek, Mich.

## 6160—Coffee, Peanut & Cocoa Bean Roasting Machines

(See also Peanut & Coffee Roasters)

Abele, Christian (Bean Roasting Machines), 537 W 50th, New York
Bartholomew Co., Peoria, Ill.
Burns, Jabez & Sons, 600 W 43d, New York
Dunbar & Co. (Peanut & Pop Corn Roasters), 2652 W. Lake, Chicago, Ill.
Hilbert Machine Co., Cincinnati, O.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor' Gas Coffee Roasters, etc.), Silver Creek, N. Y.
Kingery Mfg. Co., Cincinnati, O.
Lambert Food & Machine Co., Marshall, Mich.
Lange, Henry G., 172 N May, Chicago, Ill.
Milwaukee Gas Stove Co. (Perfection), Milwaukee, Wis.
Prims Machinery Co., Battle Creek, Mich.
Reuter-Jones Mfg. Co., St. Louis, Mo.

## 6161—Coffee & Rice Cleaning Machinery

Bahmann Iron Works Co., Cincinnati, O.
Blymyer Iron Works Co., Cincinnati, O.
Farquhar, A. B. Co., York, Pa.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek,
Johnson & Field Mfg. Co., Racine, Wis. N. Y.
Mason, Marcus & Co., Produce Exchange, New York
Nordyke & Marmon Co., Indianapolis, Ind.
Prims Machinery Co., Battle Creek, Mich.
Salem Iron Works (Coffee Only), Winston Salem, N. C.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

## 6162—Coffee & Rice Plantation Machinery

Bahmann Iron Works Co., Cincinnati, O.
Blymyer Iron Works Co., Cincinnati, O.
Engelberg Huller Co. (Hullers & Polishers). Syracuse, N. Y.
Mason, Marcus & Co., 329 Produce Exchange, New York
Salem Iron W'ks (Coffee Only), Winston Salem, N. C.

## 6163—Coffee & Spice Mill Machinery

Burns, Jabez & Sons (Power Machines), 600 W 43rd, New York
Marcus, Mason & Co., Produce Exch., New York
Nordyke & Marmon Co., Indianapolis, Ind.
Prims Machinery Co., Battle Creek, Mich.
Reuter-Jones Mfg. Co., St. Louis, Mo.

## Coil Taping Machines

(See Armature Coil Taping Machines)

## Coil Winding Machines

(See Armature & Feld Coil Winding Machines)

## 6164— Coin Counting Machines

Automatic Appliance Co. (Automatic Counting & Packing), Boston, Mass.
Johnson Coin Counting Machine Co. ("Johnson"), 125 Monroe, Chicago, Ill., & 1 Madison, New York

## Coin Operating Machines

(See Vending Machines

## 6165— Coin Wrapping Machines

Automatic Coin Wrapping Machine Co. ("Batdorf"), 34 Nassau, New York

## 6166— Coining Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Ferracute Machine Co., Bridgeton, N. J.
Johnson Iron Works (Ltd.), Julia & Delta. New Orleans, La.

## Coke Crushing Machinery

(See Crushers, Coal & Coke)

## 6167— Coke Oven Machinery

Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Scottdale Fdry. & Machine Co., Scottdale, Pa.
Variety Iron & Steel Works Co., Cleveland, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 6168—Cold Punched Nut Machines

National Machinery Co., Tiffin, O.

## 6169—Cold Roll Pointing Machines (Automatic)

Morgan Construction Co., Worcester, Mass.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

## 6170— Cold Rolling Machines

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index, end of book)

## 6171—Cold-Saw Cutting-Off Machines

American Die & Tool Co., Reading, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. ("Wagner"), Birdsboro, Pa.
Burr, Jno. T. & Sons, 420 Kent av, Brooklyn, N. Y.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cochrane-Bly Co., Rochester, N. Y.
Espen-Lucas Machine Works (Hight Speed, etc., for Steel & Brass Foundry, Forge, Crankshafts, Round Bars, I Beams, etc., Solid or Inserted Tooth Saw Blade), 342 N 15th, Phila., Pa.
**FREVERT MACHINERY CO., 18** Dey, New York. (See adv. index, end of
Ham, L. M. & Co., Boston, Mass. book)
Higley Machine Co., Croton Falls, N. Y.
Hub Machine Welding & Contracting Co. ("Acme"), 621 Cherry, Phila., Pa.
Kentucky Gear & Machine Co., Louisville, Ky.
Lea Equipment Co. ("Lea-Simplex"), 90 West, New York
Newton Machine Tool Works (Inc.), 2347 Vine, Phila.. Pa.
Nutter & Barnes Co., 326 A, Boston, Mass.
Pratt & Whitney Co., Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Q. M. S. Co. (Circular Saws), Plainfield, N. J.
**RYERSON, JOS. T. & SON ("Ryer**son" High Speed Friction), 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Smith & Post Co., Milwaukee, Wis.
Taylor-May Machine Co., Rochester, N. Y.
Tindel-Morris Co. ("Paragon" High Duty), Eddystone, Pa., & Ellwood City, Pa.
Union Caliper Co. ("Hill" Automatic), Orange, Mass.
United Engineering & Foundry Co. (High Speed, Heavy), Farmers' Bank bldg, Pittsburg, Pa.
Wetherill, R. & Co. (For Steel Foundries), Chester, Pa.

## 6172—Cold Saw Sharpening Machines

Cochrane-Bly Co., Rochester, N. Y.
Higley Machine Co., Croton Falls, N. Y.
Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.
Smith & Post Co., Milwaukee, Wis.

## 6173— Cold Swaging Machines

Langelier Mfg. Co., Providence, R. I.

## 6174—Collapsible Tube Closing Machines

Melberg Machine Co., Newark, N. J.

## 6175—Collar Folding Machines

Prankard, C. J. & Sons, Troy, N. Y.

## 6176—Collar Seam Dampening Machines

Prankard, C. J. & Sons, Troy, N. Y.

## 6177—Collar & Cuff Laundry Machinery

Troy Laundry Machinery Co., 33 Warren, New York, & 23d & Lasalle, Chicago, Ill.

## 6178— Color Sticking Machines

Stocker, J. W. (For Color Cards, etc.), 2541 Schubert av, Chicago, Ill.

## 6179—Column Fluting Machines

Kelley Electric Machine Co. ("Kelley," Electric Portable), Buffalo, N. Y.

## 6180—Comb & Hair Pin Machinery & Tools

Cook, F. H. & Co. (Horn, Tortoise Shell, Celluloid or Rubber), Leominster, Mass.

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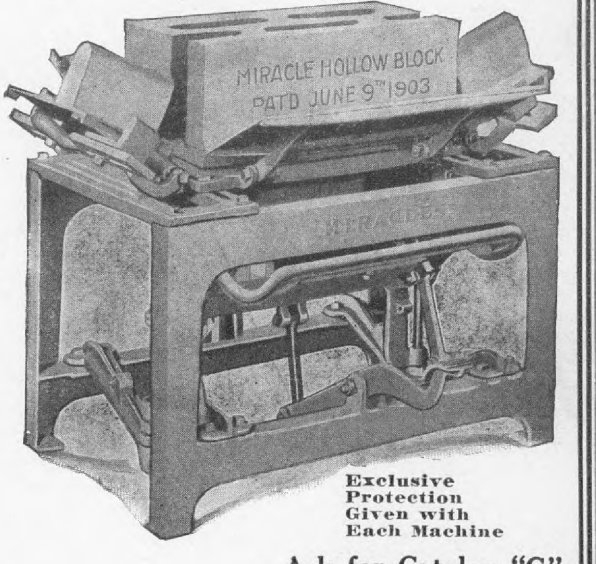
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### 6181—Commutator Slotting Machines

Device Improvement Co. ("Peerless"), Hanover, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

### 6182—Compressed Yeast Machinery

Erhart, Chris, 1237 W 6th, Cincinnati, O.

### 6183— Computing Machines

(See also Adding Machines)

Comptograph Co., 1456 Dayton, Chicago, Ill.
Hamburger, Felix ("Brunsviga"), 78 5th av, New York
Trans-Cais Time Recorder Co. (Pay Roll), Cleveland, O.

### Concentrating Machinery

(See Concentrators)

### Concrete Brick Machines

(See Cement Brick Machines)

### 6184—Concrete Building Block Machinery

American Cement Machinery Co., St. Louis, Mo.
American Foundry Co., Leipsic, O.
American Hydraulic Stone Co., Denver, Col.
Anchor Concrete Stone Co., Rock Rapids, Ia.
Architectural Hold Co., Detroit, Mich.
Ashland Steel Range & Mfg. Co. ("United States," Face Down), Ashland, O.
Besser Mfg. Co. ("Eureka"), Alpena, Mich.
Bolles Mfg. Co., Cleveland, O.
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Bragstad Bros. Co., Canton, S. Dakota
Brooklyn Concrete Machinery Co. ("Oliver," Automatic), Brooklyn, Mich.
Burrell Mfg. Co. ("X.L.-All" Traction), Bradley, Ill.
Cement Machinery Co. ("Monarch"), Jachson, Mich.
Cement Tile Machinerc Co., Waterloo, Ia.
Century Cement Machine Co. ("Hercules"), Rochester, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**Cherry Valley Iron Works, Monroe, Wash.**
Cockburn, Barrow & Co. ("Pinney," Vibrating Non-Porous), Jersey City, N. J.
Colgan Machinery & Supply Co., Columbus, O.
Coltrin-Boos Mfg. Co. ("Coltrin-Boos"), Jackson, Mich.
Concrete Machinery Co., Detroit, Mich.
Concrete Stone & Sand Co. ("Pauley." Wall Machines), Youngstown, O.
Diamond Cement Machine Co. ("Diamond"), Toledo. O.
**Diamond Concrete Machinery Co., Tacoma bldg, Chicago, Ill.**
Dunn, W. E. & Co., 1330 Grand av, Chicago, Ill.
Eclipse Concrete Machinery Co. ("Eclipse"), Wichita, Kans.
Enterprise Foundry Co. ("Perfection"), Rochester, N. Y.
Ewing Concrete Machinery Co., Akron, O.
Fate, J. D. Co., Plymouth, O.
Fisher Hydraulic Stone & Machinery Co. "Fisher," Hydraulic Ramming System), Mt. Gilead, O.
Francis Machine Co., St. Louis, Mo.
Georgetown Block Machine Co., Georgetown, Ill.
Goodwin, H. E., 208 Blake, Indianapolis, Ind.
Grumman Concrete Mach'y Co., Zanesville, O.
Hall, Jas. P., ft Henderson, Jersey City, N. J.
Hanna Engineering Works ("Schall"), 2059 Elston av, Chicago. Ill.
Hayden Automatic Block Machine Co. ("Hayden"), Columbus, O.
Hercules Mfg. Co ("Hercules"), Centerville, Ia.
Hobbs Concrete Machinery Co., Detroit. Mich.
Hydraulic Press Co., Mount Gilead, O.
Ideal Concrete Machinery Co. ("Ideal"), South Bend, Ind.
**Inman Concrete Building Block Machinery Co.,** Beloit, Wis.
Keller Cement Block & Machine Co., Kearney, Neb.
Louisville Machine Co., Louisville, O.
**MARSH CO. ("Miracle," "New Rapid"), 975 Old Colony bldg, Chicago, Ill.** (See adv. index & branch offices, end of book)
**Miles Mfg. Co., Jackson. Mich.**
**MILWAUKEE CONCRETE MIXER &** Machinery Co., Milwaukee, Wis. (See adv. **index & branch offices, end of book)**
Modern Concrete Machy. Co., Terre Haute, Ind.
Montfort & Weaver (Gen'l Sales Agts.), 45 Clinton, Newark, N. J.
Moore Plow & Implement Co., Greenville, Mich.
Multiplex Concrete Block Machine Co. ("Multiplex," Hand Lever), Elmore, O.
National Concrete Machinery Co., Chicago, Ill.
National Hollow Concrete Block & Fire-Proofing Co., 921 F, N W, Washington, D. C.
New Enterprise Concrete Machinery Co. ("Silo" for Continuous Hollow Walls), 163 Randolph, Chicago, Ill.
Newsome Crushed Stone & Quarry Co., Nashville, Tenn.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Peerless Brick Machine Co., Minneapolis, Minn.
Pettyjohn Co., Terre Haute, Ind.
Premier Concrete Block System, Marion, Ind.
Queens City Brick Machine Co., Traverse City, Mich.
Raber & Lang Mfg. Co., Kendallville, Ind.
Reed Mfg. Co., Springfield, O.
Rempis & Gallmeyer Foundry Co., Grand Rapids, Mich.
Rowell, G. D. & Son ("Samson"), Appleton. Wis.
Sanford Concrete Machinery Co. ("Sanford"), Toledo, O.
Schwab, R. J. & Sons Co., Milwaukee, Wis.
Sioux City Cement Machinery Co., Sioux City, Iowa
Somers Bros. Mfg. Co., Urbana, Ill.
Star Cement Block Machine Co., Dallas City, Ill.
U. S. Gas Machine Co. ("World Beater"), Muskegon, Mich.
X. L. Concrete Stone Machine Co., Kansas City, Mo.
Youngstown Engineering Co., Youngstown, O.

### Concrete Pipe Machinery

(See Cement Sewer Pipe Machinery)

### Concrete Post Machines

(See Cement Post Machinery)

### Concrete Roofing Tile Machinery

(See Cement Shingle Machinery)

### 6185—Concrete Structural Tile Machines

Concrete Stone & Sand Co. ("Pauly," for Floors, Spans, Partitions, etc.), Youngstown, O.

### 6186—Condensed Milk Can Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6187—Condensed Milk Machinery

Climax Machinery Co., Indianapolis, Ind.
Elgin Mfg. Co. ("Elgin" Rotary Fillers, etc.), 1Elgin, Ill.
Huetteman & Cramer Co., Detroit, Mich.
Rogers, C. T. & R. R. Co., Detroit, Mich.
Stickney, Henry R. (Can Filling & Syruping, etc.), Portland, Me.

### 6188—Conductor Pipe & Eave Trough Machinery

Armor Clad Mfg. Co. (Plain & Corrugated), Canton, O.
**CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)**
Heartlec Machine, Variety Iron & Tool Works, Toledo, O.
**NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)**

### Conduit Bending Machines

(See Benders, Conduit)

### 6189—Conduit Snaking & Wire Pulling Machines

Conduit Machine Co., 225 5th av, New York

### 6190—Confectioners' Machinery

(See also Dough Mixing & Kneading Machinery, Etc.)

American Chocolate Machinery Co., 45 E 66th, New York
Anderson, J. P. & Co. (Mixing Machines. Cutters, Graters, Rools, etc.), Phila., Pa.
Annen Candy & Biscuit Co. (Chocolate Dipping Machines, etc.), Green Bay, Wis.
Barbour-Stockwell Co., Cambridgeport. Mass.
**BEACH-RUSS CO. (Gas Furnaces),** 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
Buhr, Plaff & Co. ("Heilman" Candy Rolling Machines, etc.), Cincinnati, O.
Clad, V. & Sons (Cutters, Mixers, Copper Jacket Kettles, Revolving Pans, etc.), 239 S 12th, Phila., Pa.
Collum Mfg. Co. (Candy & Cream Coolers, Cutters, etc.), Hartford. Conn.
Confectioners' & Bakers' Supply Co. (Machinery Tools & Supplies of All Kinds), 11 E Illinois, Chicago, Ill.
Confectioners' Mach'y & Mfg. Co., Springfield, Mass.
Crandall & Godley Co., 135 Hudson, New York
Day, J. H. Co. (Bakers', etc.), Cincinnati, O.
Dopp, H. Wm. & Son, Buffalo, N. Y.
Duff, P. & Sons (Brandle & Smith Spinning Machines, etc.). 918 Duquesne, Pittsburg, Pa.
Echert, P. Co., 27 W Court, Cincinnati, O.
Hellman, Jno. C., Cincinnati, O.
Hicks, Geo. J. (Bakers' Supplies), 154 Nassau, New York
Hilbert Machine Co., Cincinnati, O.
Hildreth, Herbert L. Co. (Candy Pulling Machines, etc.), Boston, Mass.
Horton, Pembroke D. (Bakers'), 15th & Fairmount. Phila., Pa.
Kingery Mfg. Co., 131 E Pearl, Cincinnati, O.
Lange, Henry G., 172 N May, Chicago, Ill.
Magg, August Co. (Freezers, Tools & Supplies, etc.), Baltimore. Md.
Marquette, John N. (Marshmallow Machines), 509 S Eden, Baltimore, Md.
Mills, Thos. & Bro. (Mixers, Cutters, Freezers, etc.), 3108 N 4th, Phila., Pa.
Racine Engine & Machine Co. (Chocolate Mixers, Cream Beaters, etc.), Racine, Wis.
Rittenhouse, Frank (Nougat Cutting Machines, etc.), Norristown, Pa.
Rockwell, L. A. ("Bakers"), 9 Elizabeth, New York
Savage Bros. Co. (Mixers, Chewing Gum Machines, Revolving Pans, etc.). 321 W Michigan, Chicago, Ill.
Scientific Bread Machine Co. (Bread Mixing & Kneading Machinery), 52d, bel Lancaster,
Traud, Alex. Co., Newark, N. J. Phila., Pa.
Thomson, C. A. Machine Co. (Bakers'), Belleville, N. J.
Watkins, Jas. Y. & Son, 16 Catharine, New York
Werner, Jno. Machine Works (Labor Saving Confectionery Machines), Rochester, N. Y.

### Conveying Machinery

(See Conveyors of Various Kinds)

### Cooperage Machinery

(See Barrel, Keg, Stave & Heading Machinery)

### 6191— Coping Machines

Bertsch & Co., Cambridge City, Ind.
**CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O.** (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Ham, L. M. & Co. ("Ham's"), Boston, Mass.
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Beam** Coping, etc.), Hamilton, O. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way New York
**PELS, HENRY & CO., West & Albany, New York.** (See adv. index, end of book)
Quality Saw & Tool Works (Inc.), Springfield, Mass.
Williams, White & Co. (Coping & Punching Machines), Moline, Ill.

### 6192—Copper Converting Machinery

Alliance Machine Co., Alliance, O.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

### 6193—Copper Working Machinery

Portage Lake Foundry & Machinery Co., Hancock, Mich.

### Cord Wood Sawing & Splitting Machines

**(See Kindling Wood Machinery)**

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### 6194— Cordage Machinery

Birch Bros. (Rope), Somerville, Mass.
Brownell, G. L. (For Twisting & Spinning, for Twines, Lines & Cordage from All Materials), Worcester, Mass.
Finigan-Zabriskie Co., Paterson, N. J.
Haskell-Dawes Machine Co., 176 Federal, Boston, Mass. Works, Frankfort Jct., Phila., Pa.
Hoover & Gamble Co. (Hard Fibre, Sisal & Manilla, Cordage & Twine), Miamisburg, O.
Kelly, R. A. Co. (Cordage), Xenia, O.
Lockwood Mfg. Co. (Also Binder Twine & Rope), 61 Sumner, E. B., Boston, Mass.
Watson Machine Co., Paterson, N. J.

### 6195—Core Box Cutting Machines

Portland Co. ("Thomes"), Portland, Me.
Wadsworth Core Machine & Equipment Co., Akron, O.

### 6196— Core Making Machines

Acme Core Machine Co. ("Acme," Plunger Type), Cuyahoga Falls, O.
Brown Specialty Machinery Co. ("Hammer"), Jackson boul & Clinton, Chicago, Ill.
Demmler, Wm. & Bros. ("Hewlett"), Kewanee, Diamond Clamp & Flask Co., Richmond, Ind. Ill.
Elmira Foundry Co. ("Gow," Power Ramming Roll-Over), Elmira, N. Y.
McCormick, J. S. Co., Pittsburg, Pa.
Venango Mfg. Co., Franklin, Pa.
Wadsworth Core Machine & Equipment Co., Akron, O.

### 6196a—Core Sand Washing Machines

**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)

### 6197—Core Tapering Machines

Brown Specialty Machinery Co., Jackson boul & Clinton, Chicago, Ill.

### 6197a—Core Wire Straightening Machines

Blake, Geo. F. Mfg. Co. ("Climax"), 115 B'way, New York

### 6198—Cork Cutting Machinery

Barber, M. A., Norwich, Conn.

### 6199— Cork Sticking Machines

Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.

### Corking Machines

(See Bottle Corking Machines)

### 6200—Corking Machines (Preservers')

**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)

### 6201— Corn Cutting Machines

Morral Bros., Morral, O.
**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6202—Corn Husking Machines

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

### 6203— Corn Mill Machinery

Beall Improvements Co., Decatur, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**Howes, S. Co., Silver Creek, N. Y.**
Huntley Mfg. Co. (Monitor), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
Salem Foundry & Machine Works, Winston Salem, Va.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
Starr, B. F. Co., 455 North, Baltimore, Md.
Wolf Co., Chambersburg, Pa.

### 6204— Corn Mixing Machines

**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6205— Corn Oil Machinery

Buckeye Iron & Brass Works, Dayton, O.
Callahan, W. P. Co. (Inc.), Dayton, O.
**ELMES, CHAS. F. ENGINEERING** Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
French Oil Mill Machinery Co., Piqua, O.
Platt Iron Works Co., Dayton, O.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

### 6206— Corn Silking Machines

Morral Bros., Morral, O.
**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6207—Cornice Makers' Machinery

(See also Sheet Metal Workers' Machines & Tools)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Keene, Geo. C. & Co., Cincinnati, O.
Loy & Nawrath Co., Newark, N. J.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. Automatic Power Brakes, etc.), 157 Oraton, Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. Mfg. Co., Cincinnati, O.

### 6208—Corporation Cock Inserting Machines

Hays Mfg. Co., Erie, Pa.
Smith, A. P. Mfg. Co. (For Water Works), East Orange, N. J.

### 6209—Corrugated Joint Fastener Driving Machines

Saranac Machine Co. ("Advance"), St. Joseph, Mich.

### Corrugated Paper Printing Machines

(See Box Board Printing Machines)

### 6210— Corrugating Machines

(See also Sheet Metal Workers' Machines & Tools)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
Keene, Geo. C. &. Co., Cincinnati, O.
Lewis Foundry & Machine Co., Coraopolis, Pa.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. Mfg. Co., Cincinnati, O.
United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

### 6211— Corset Machinery

Adams, A. L., Bridgeport, Conn.
**BEACH-RUSS CO. (Gas Pressing** Irons), 55 Green, Brooklyn, N. Y. (See adv. index, end of book)

### 6212— Cotter Pin Machinery

Manville Bros. Co., Waterbury, Conn.
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
**SHUSTER, F. B. CO. (Automatic),** New Haven, Conn. (See adv. index, end of book)

### 6213—Cotton Ginning Machinery

Adams, W. T. Machine Co. (Handles), Corinth,
Air Blast Gin Co., Dallas, Tex. Miss.
Alsop Process Co., St. Louis, Mo.
American Machine & Mfg. Co., Charlotte, N. C.
Avery, B. F. & Sons (Handles), Louisville, Ky.
Brown Cotton Gin Co., New London, Conn.
Bushnell, Geo. H. Press Co., Thompsonville, Conn.
Carver Cotton Gin Co., East Bridgewater, Conn.
Chickasaw Iron Works (Handles), Memphis, Tenn.
Continental Gin Co. ("Winship," "Smith," "Munger," "Eagle," "Pratt"), Birmingham. Ala.
Gantt Mfg. Co., Macon, Ga.
Georgia Agricultural Works (Georgia Centennial Cotton Gin, Feeder & Condenser, Suction Elevators & Other Cotton Ginning Specialties), Fort Valley, Ga.
Gullett Gin Co., Amite, La.
Houston Car Wheel & Machine Co., Houston, Tex.
Kelly Plow Co. (Handles), Longview, Tex.
Liddell Co., Charlotte, N. C.
Lummus, F. H. Sons & Co., Columbus, Ga.
Massey Gin & Machine Works, Macon, Ga.
Means, J. L. Machinery Co. (Handles), Shreveport, La.
Murray Co., Dallas, Texas
Southern Engine & Boiler Works (Inc.) (Handles), Jackson, Tenn.
Thomas-Fordyce Mfg. Co., Little Rock, Ark.
Valk & Murdock Iron Works, Charlestown, S. C.
Van Winkle Gin & Machine Co., Atlanta, Ga.
White, S. R. & Bro. (Handles), Norfolk, Va.

### Cotton Machinery

(See Textile Machinery, etc. For page number consult Index of Contents)

### 6214—Cottonseed Oil Machinery

American Machine & Mfg. Co., Charlotte, N. C.
Bauer Bros. Co. (Crushers, Separators, Shakers & Cleaners), Springfield, O.
**BOOMER & BOSCHERT PRESS CO.,** Syracuse, N. Y. (See adv. index, end of book)
Brown Cotton Gin Co., New London, Conn.
Buckeye Iron & Brass Works (Also Linseed), Dayton, O.
**CALDWELL, H. W. & SON CO.,** 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Callahan, W. P. Co. (Inc.) (Linseed & Corn Also), Dayton, O.
Carver Cotton Gin Co., East Bridgewater, Mass.
Cardwell Machine Co., Richmond, Va.
Columbus Machinery & Foundry Co., Columbus, Miss.
Continental Gin Co. (Linter Feeders, Condensers, Presses, etc.), Birmingham, Ala. & Bridgewater, Mass.
French Oil Mill Machinery Co., Piqua, O.
Fritz, Geo. J. Foundry & Machine Co., 2008 S. 3d, St. Louis, Mo.
Houston Car Wheel & Machine Co., Houston, Tex.
Lombard Iron Works & Supply Co., Augusta, Ga.
Platt Iron Works Co. (Also Linseed), Dayton, Ohio
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
**WEBSTER MFG. CO., THE (Reels,** Beaters, Shakers, etc.), 2410 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

### 6215— Counting Machines

Durant, W. N. Co., Milwaukee, Wis.
Gem Mfg. Co. ("Gem"), Springeld, O.
Grant Mfg. & Machine Co., Bridgeport, Conn.
National Scale Co. ("National," Counting & Weighing), Chicopee Falls, Mass.
Recording Register & Fare Box Co., New Haven, Conn.
Root, Chas. J. ("Elm City," "Bristol," "Root"), Bristol, Conn.
Veeder Mfg. Co., Hartford, Conn.

### 6216—Coupling Bending Machines

United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.

### 6217—Coupling Expanding Machines

Larkin Mfg. Co. ("Buckley" Hydraulic), Dayton, O.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

### 6218—Coupling Rolling Machines

**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

### 6219—Coupling Tapping Machines

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

### 6220—Coupling & Pulley Forcing Machines

Woonsocket Machine & Press Co., Woonsocket, R. I.

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### 6221— Cow Milking Machines

Burrell, D. H. & Co., Little Falls, N. Y.
Dairy Specialty Co., Westchester, Pa.
Hinman Milking Machine Co., Oneida, N. Y.
Ideal Sanitary Milking Machine Co., Lansing, Mich.
Liberty Cow Milker Co. (Electric), Hammond, Ind.
Litchfield Mfg. Co. ("Litchfield" Automatic), Waterloo, Ind.
Mehring, Wm. M., Yorkroad, Md.
Western Milking Machine Co., Stevens Point, Wis.

### 6221a—Cracker & Biscuit Box Machinery (Sheet Metal)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6222—Cracker & Biscuit Machinery

Champion Machinery Co., Joliet, Ill.
Green, Thos. L. & Co., Indianapolis, Ind.
Horton, Pembroke D., Fairmount av & 15th, Phila., Pa.
**WERNER & PFLEIDERER, Saginaw,** Mich. (See adv. index, end of book)

### 6223—Cranberry Assorting Machines

Trenton Pattern Works, Trenton, N. J.

### 6224—Crank Boring Machines

Niles-Bement-Pond Co., 111 B'way, New York

### 6225—Crank Pin Turning Machines

Clyde Machine Works ("The Clover"), 3913 Union av, Chicago, Ill.
Niles-Bement-Pond Co., 111 B'way, New York
Stow Flexible Shaft Co., 26th & Callowhill, Phila., Pa.
Tindel-Morris Co. (Crank Pin Lathes), Eddystone, Pa., & Ellwood City, Pa.
Underwood, H. B. & Co. (Portable), 1023 Hamilton, Phila., Pa.

### 6226—Crank Shaft Cold Saw Cutting-Off Machines

Newton Machine Tool Works (Inc.) (Inserted Tooth Saw Blade), Phila., Pa.

### 6227— Crate Machinery

Chase Turbine Mfg. Co., Orange, Mass.
Merritt Mfg. Co., Lockport, N. Y.
Saranac Machine Co. ("Advance" Stapling Machines), St. Joseph, Mich.

### 6228—Crate Slat Cutting Machines

Trevor Mfg. Co., Lockport, N. Y.

### 6229— Creamery Machinery

(See also Separators, Cream)

Barclay, D. F. (And Supplies), Elgin, Ill.
**Burrell, D. H. & Co., Little Falls, N. Y.**
**Chapman, C. L., Erie, Pa.**
Creamery Package Mfg. Co., 61 W Kinzie, Chicago, Ill.
Dairy Machinery & Cons. Co., Derby, Conn.
Dairy Specialty Co. ("Babcock" Milk Tester, Milking Machines, etc.), West Chester, Pa.
De Laval Separator Co., 165 B'way, New York
Dobson Mfg. Co., Rockford, Ill.
**Fargo Creamery Supply House, Lake Mills, Wis.**
Gehl, M. C. Co., Milwaukee, Wis.
Hendy, Joshua Machine Works, San Francisco, Cal.
Jenson Mfg. Co., Topeka, Kans.
Jones, Frank L., Utica, N. Y.
National Dairy Machine Co., Newark, N. J.
Oakes & Burger, Cattaraugus, N. Y.
Read, A. H. Creamery & Dairy Supply Co., 69th & Haverford, Phila., Pa.
Rice & Adams Mfg. Co., Buffalo, N. Y.
Sharples Separator Co., 40 S Clinton, Chicago, Ill.
Vermont Farm Machine Co., Bellows Falls, Vt.

### 6230—Creaming & Mixing Machines

Roth, A. ("Roth"), Newport, Ky.

### 6231—Creasing Machines (Paper, Cloth & Strawboard)

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6233—Crimping Machines for Tops on Tooth Powder Boxes

**AMERICAN CAN CO. (Machinery** Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6232—Crimping Machines (Varnish Can Nozzle)

Consolidated Fruit Jar Co., New Brunswick, N. J.

### 6234—Crimping & Beading Machines

(See also Sheet Metal Workers' Machine & Tools)

**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel"). 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Eclipse Machine Co., Troy, N. Y.
Hibbard, Wm. H. Mfg. Co. (Beading Machines Only), 79 Washington, Brooklyn, N. Y.
Jones, W. E., 14 Water, Brooklyn, N. Y.
Keene, Geo. C. & Co., Cincinnati, O.
Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
Loy & Nawrath Co., Newark, N. J.
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. Mfg. Co., Cincinnati, O.
Slaysman & Co. (Canmakers'), Baltimore, Md.
Swaine, Fred J. Mfg. Co., 1300 N 7th, St. Louis, Mo.
Wheeler, W. A. ("Lightning" Crimper), Indianapolis, Ind.

### Cross Cut Sawing Machines

(See Saws, Drag)

### 6235— Cross Tie Machines

Standard Cross Tie Machines, New Orleans, La.

### 6236— Cupel Machines

Braun Corporation ("Braun" Produce Homogeneous Cupels), Los Angeles, Cal.
Denver Fire Clay Co. ("Ller"), Denver, Colo.

### 6236a—Curb & Gutter Machines

**MARSH-CAPRON MFG. CO., 480 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH CO., 975 Old Colony bldg,** Chicago, Ill. (See adv. index & branch offices, end of book)

### 6237— Curled Hair Machinery

Hood, R. H., 1842 Germantown av, Phila., Pa.

### 6238— Curtain Pole Machines

Bentel & Margedant Co., Hamilton, O.
Heath, W. A. Machine Co., Lestershire, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
Smith, H. B. Machine Co., Smithville, N. J.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

### 6239—Curtain Pole Sanding & Finishing Machines

Bentel & Margedant Co., Hamilton, O.
Pringle & Brodie Machinery Co., 514 S Canal, Chicago, Ill.

### 6240— Cutlery Machinery

Oakes & Burger (Cheese Knives, etc.), Cattaraugus, N. Y.

### 6241—Cutlery Polishing Machines

Dilg Mfg. & Trading Co. ("Acme," "Defiance" Renovator & Polishers), E 163d, New York

### 6241a—Cutting Machinery (Oxy-Acetylene for Steel)

**GOODYEAR, NELSON (Inc.), 50** Church, New York. (See adv. at Welding, Autogenous)

### 6242—Cutting Machines (for Fabrics)

**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)
Hurlbut-Rogers Machine Co., S Sudbury, Mass.

### Cutting-Off Machines (Cold Metal)

See Metal Cutting-Off Machines; also Cold Saw Cutting-Off Machines)

### Cutting-Off Machines (Wood)

(See Wood Cutting-Off Machines)

### 6243—Cutting & Punching Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Ohl, Geo. A. & Co. (One Operation for Cutting and Punching Strips of Tin, Iron, Fibre, etc.), 88 McWhorter, Newark, N. J.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
ter, N. Y.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### Cyanide Machinery

(See Cyanide Plants)

### 6244—Cylinder Boring Machines

Baker Bros. (Single, Two & Four Spindle), Toledo, O.
Barrett Machine Tool Co., Meadville, Pa.
Beaman & Smith Co., Providence, R. I.
Binsee Machine Co., Newark, N. J.
**ELMES, CHAS. F. ENGINEERING** Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Fisher Machine Works (Portable for Re-Boring), Leavenworth, Kan.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Jones, W. A. Foundry & Machine Co., 1401 W North av, Chicago, Ill.
Hoefer Mfg. Co., Freeport, Ill.
Mathews, Hugh (Portable Re-Boring Bars), Kansas City, Mo.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Rochester Boring Machine Co., Rochester, N. Y.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Stow Flexible Shaft Co. (Portable), Phila., Pa.
Underwood, H. B. & Co. (Portable), 1025 Hamilton, Phila., Pa.

### 6245— Dado Machines

American Woodworking Machinery Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Bordesman, Rechtin Co., Cincinnati, O.
**NEW BRITAIN MACHINE CO. (Win-**dow Frame), New Britain, Conn. (See adv. index, end of book)
Power, L. & Co. (Combination Saw & Dado Machines), 20 S 23d, Phila., Pa.
Yerkes & Finan Woodworking Machine Co. (Combination Saw & Dado Machines), St. Louis, Mo.

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## 6246— Damasking Machines

Elgin Tool Works (For Watch Parts, Time Locks, etc.), Elgin, Ill.
**STARK TOOL CO. ("Stark," Automatic)**, Waltham, Mass. (See adv. index, end of book)

## 6247— Dating Machines

**AMERICAN RAILWAY SUPPLY CO.**, 26 Park pl., New York. (See adv. index, end of book)
Hanson, C. H., 44 Clark, Chicago, Ill.
Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.
Roberts Numbering Machine Co. ("Bates," Automatic), 706 Jamaica av, Brooklyn, N. Y.

## 6248—Dial Printing Machines

Elgin Tool Works (For Watch Dials, etc.), Elgin, Ill.

## 6249— Die Casting Machines

Lake, E. T. & Co., Bayonne, N. J.
Soss Mfg. Co. ("Soss"), 435 Atlantic av, Brooklyn, N. Y.

## 6250—Die Chamfering Machines

Hartford Machine Screw Co., Hartford, Conn.

## 6251—Die Plate Hammering Machines

Bates Machine Co., Joliet, Ill.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**

## 6252—Die Sharpening Machines

National Machinery Co., Tiffin, O.

## 6253— Die Sinking Machines

Cook, Asa C. Co., 80 Huyshope av, Hartford, Conn.
**FREVERT MACHINERY CO., 18 Dey**, New York. (See adv. index, end of book)
Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.
Perkins, Henry Co. (Die Making), Bridgewater, Mass.
Pratt & Whitney Co., Hartford, Conn.
Royle, Jno. & Sons (Inc.), Paterson, N. J.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 6254—Die Sinking & Milling Machines (Combined)

Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.

## 6255—Die Slotting & Shaping Machines

**Cochrane-Bly Co., Rochester, N. Y.**
Garvin Machine Co., 137 Varick, New York

## Digging Machinery

(See Ditching Machines; also Shovels, Steam)

## 6255a—Digging Machinery (Canal)

(See also Shovels, Steam)
**HAYWARD CO., THE, 50 Church**, New York. (See adv. index, end of book)

## Disc Grinding Machines

(See Grinders, Disc)

## Disc Notching Machines (Armature)

(See Armature Disc Notching Machines)

## 6256— Disc Sanding Machines

Bentel & Margedant Co. (Single & Double), Hamilton, O
Oliver Machinery Co. (Pattern Makers, etc.), Grand Rapids, Mich.

## 6257— Dish Washing Machines

Blakeslee, G. S. & Co., 325 Dearborn, Chicago,
Crammond Mfg. Co., Waukegan, Ill. Ill.
Dunn Mfg. Co., 35 Dearborn, Chicago, Ill.
Fearless Dish Washer Co., Rochester, N. Y.
Garis-Cochrane Mfg. Co., Auditorium bldg, Chicago, Ill.
Gill, P. H. & Sons, Lorraine & Orsego. Brooklyn, N. Y.
Hamilton-Low Co. ("Vortex"), 145 E 42d, N. Y.
Insinger Co., Stenton av, above Wayne Jct., Phila., Pa.
Keeler Mfg. Co. ("Santo"), 21st & Allegheny av, Phila., Pa
National Dish Washer Co. ("Little Giant"), Binghamton, N. Y.
Success Dish Washing Machine Co., Wooster, Ohio
Wrought Iron Range Co., St. Louis, Mo.

## 6258— Disinfecting Machinery

**American Sterilizer Co. (For Hospitals, etc.), Erie, Pa.**
**Kny-Scheerer Co., 404 W 27th, New York**
McLauthlin, Geo. T. Co., Boston, Mass.
Vogel, Wm. & Bros. (Automatic Drip), 37 S 9th, Brooklyn, N. Y.

## 6259— Distillers' Machinery

**CALDWELL, W. E. CO., Brook & D**, Louisville, Ky. (See adv. index, end of book)
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Lummus, Walter E. (Automatic Machines for Volatile Liquids), Boston, Mass.
Nordyke & Marmon Co., Indianapolis, Ind.
**SCHULE, F. H. CO., 114-118 Liberty**, New York. (See adv. index, end of book)
Straub Machinery Co., Cincinnati, O.

## 6260— Ditching Machines

(See also Road Machines & Graders; also Road Scrapers, Drag & Wheel; also Shovels, Steam; also Ditching Machines, Traction)
American Ditching Machine Co., Minneapolis, Minn.
American Road Machine Co., Kennett sq, Pa
Austin, F. C. Drainage Excavator Co., R'y Exch bldg, Chicago, Ill.
Austin Mfg. Co., Manhattan bldg, Chicago, Ill.
Works, Harvey, Ill.
**Browning Mfg. Co., Cleveland, O.**
Buckeye Traction Ditcher Co. (Traction), Findlay, O.
Bucyrus Co., South Milwaukee, Wis.
Edwards, C. D. (Ditching Machinery), Albert Lea, Minn
Enterprise Mfg. Co., Columbiana, O.
Fairbanks Steam Shovel Co., Marion, O.
Good Roads Machinery Co., Kennett Square, Pa., & 114 Liberty, New York
**HAYWARD CO., THE, 50 Church**, New York. (See adv. index, end of book)
Iowa Ditching Machine Co. ("Iowa," Tile Ditcher), Mt. Pleasant, Ia.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Mahoney Railroad Ditching Machine Co. (Railroad), Vincennes, Ind.
Marion Shovel & Dredge Co., Marion, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Mayer Bros. (Inc.) ("Mayer" Straddle), Mankato, Ill
Municpal Engineering & Contracting Co., R'y Exch bldg, Chicago, Ill.
Parsons, G. T. Co., Newton, Ia.
Russell Grader Mfg. Co. ("Russell" Grader & Ditcher), Minneapolis, Minn
Smith & Sons Mfg. Co., Kansas City, Mo.
Stacey, Wm., Iowa Falls, Iowa
Vulcan Iron Works Toledo, O.
Western Wheeled Scraper Co., Aurora, Ill.

## 6261—Ditching Machines (Railroad)

(See also Ditching Machines; also Shovels, Steam)
**AMERICAN HOIST & DERRICK CO.** ("American"), St. Paul, Minn. (See adv. index & branch offices, end of book)
Austin Mfg. Co., Manhattan bldg, Chicago Ill.; Works: Harvey, Ill.
Browning Engineering Co., Cleveland, O.
Buckeye Traction Ditcher Co. ("Buckeye" Traction Ditcher), Findlay, O.
Bucyrus Co., South Milwaukee, Wis.
Mahoney Railroad Ditching Machine Co., Vincennes, Ind.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Mayer Bros. (Inc.) ("Mayer" Straddle), Mankato, Ill
Municipal Engineering & Contracting Co. R'y Exchange bldg, Chicago, Ill.
Parsons, G. T. Co., Newton, Ia.
Western Wheeled Scraper Co., Aurora, Ill.

## 6262—Ditching Machines (Traction)

(See also Ditching Machines)
Buckeye Traction Ditcher Co. ("Buckeye"), Findlay, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 6262a—Dividend Check Writing Machines

Writing Machine Co., Rochester, N. Y.

## 6263—Double Seaming Machines

(See also Sheet Metal Workers' Machines & Tools)
**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel," for Tin & Sheet Metal Works), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Ams, Max Machine Co. (For Round Cans), Mount Vernon, N. Y.
Atwood-Morrison Co., Stonington, Conn.
**BLISS, E. W. CO. (Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Jones, W. E., 14 Water, Brooklyn, N. Y.
Keene, Geo. C. & Co., Cincinnati, O.
Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
**NIAGARA MACHINE & TOOL W'KS.** ("Hulbert's"), Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. & Co., Cincinnati, O.
Swaine, Fred. J. Mfg. Co., St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.**, Toledo, O. (See adv. index, end of book)
Zeh & Hahnemann, Vanderpool & Av A, Newark, N. J.

## 6264—Dough Braking Machines

Champion Mach'y Co. (Automatic), Joliet, Ill.
Leckie, James & Co., 821 N 13th, Phila., Pa.
Lynn-Superior Co., Cincinnati, O.
Rockwell, L. A. ("Rockwell's"), 9 Elizabeth, New York
**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book)

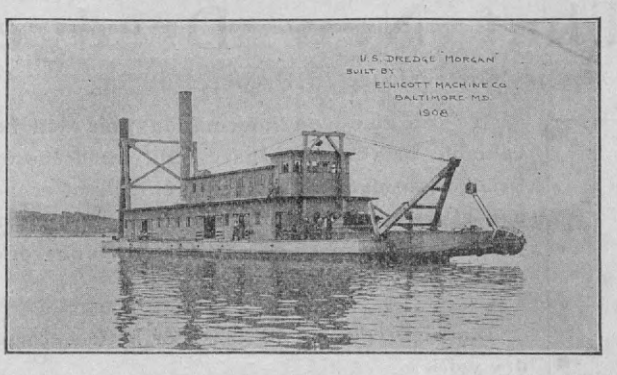
## 6265—Dough Dividing Machines

American Oven & Machine Co., 59 Clark, Chicago, Ill.
**Champion Machinery Co. ("Champion"), Joliet, Ill.**
Deutscher's Machinery Mfg. Co. ("Victoria," "Columbia"), 21 E 104th, New York
Dutchess Tool Co. ("Van Houten" Automatic), Fishkill on Hudson, N. Y.
**Glaser, Gustave & Co. ("Glaser's"), 76 Park pl, New York**
Hermann & Co., 30 E 20th, New York.
**Hicks, Geo. J. (Inc.), 154 Nassau, New York**
**Katzinger, Edw. Co. ("Ekco" Automatic), 123 N Peoria, Chicago, Ill.**
Lynn-Superior Co., Cincinnati, O.
Thomson, C. A. Machine Co. ("Goudy" Automatic), Belleville, N. J.
Triumph Mfg. Co. ("Triumph"), Cincinnati, O.
**WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)**
Zoeller, Wm. ("36 Part"), 325 N Curtis, Chicago, Ill.

## 6266—Dough Mixing & Kneading Machinery

American Oven & Machine Co. ("New Era"), Chicago, Ill.
Atlantic Stamping Co., Rochester, N. Y.
Batt & Wilson ("Daily-Bread Mixer"), South Orange, N. J.
Champion Machinery Co., Joliet, Ill.
Day, J. H. Co., Cincinnati, O.
Hicks, Geo. J. (Inc.), 154 Nassau, New York
Joliet Machinery Co. ("Gearless"), Joliet, Ill.
Landers, Frary & Clark ("Universal"), New Britain, Conn.
**Lynn-Superior Co. ("Thorobred"), Cincinnati, Ohio**
Manning, Bowman & Co. ("Eclipse"), Meriden, Conn.
Norrish, Burnham & Co. (Inc.), Glen Rock, Pa.
Oelman, Curt E., Detroit, Mich.
Prims Machinery Co., Battle Creek, Mich.
Pritchard Stamping Co., Rochester, N. Y.
Rockwell, L. A., 9 Elizabeth, New York
Read Machinery Co., York, Pa.
Stowell Mfg. & Foundry Co., Milwaukee, Wis.
Triumph Mfg. Co. ("Triumph," "Perfect"), Cincinnati, O.
**WERNER & PFLEIDERER (78 Different Classes & Types)**, Saginaw, Mich. (See adv. index, end of book)

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### 6267—Dough Moulding Machines

Thomson, C. A. Machine Co. ("Thomson," Combination Roll), Belleville, N. J.
Triumph Mfg. Co., Cincinnati, O.
**WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)**

### 6268—Dovetail Glue Matching Machines

Linderman Machine Co., Muskegon, Mich.

### 6269— Dovetail Machines

**Advance Machinery Co. (Gang), Toledo, O.**
**AMERICAN STEAM PUMP CO. ("Boult's"), Battle Creek, Mich. (See adv. index, end of book)**
Bentel & Margedant Co., Hamilton, O.
Dodds, Alexander (Gang), Grand Rapids, Mich.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer Machine Works (Singie), 1845 Carroll av, Chicago, Ill.
Goodspeed Machine Co. ("Stimpson's"), Winchendon, Mass.
**Kelley Electric Machine Co. ("Kelley." Electric Portable), Buffalo, N. Y.**
Linderman Machine Co., Muskegon, Mich.
St. Paul Machinery Mfg. Co. (For Dovetail Boxes, etc.), St. Paul, Minn.

### 6270— Dowel Door Machinery

**Hayes, E. B. Machine Co., Oshkosh, Wis.**

### 6271—Dowel Machines (Coopers')

**White, L. & I. J. Co., Buffalo, N. Y.**

### Dowel Machines

(See Rod, Pin & Dowel Machinery)

### 6272— Drafting Machines

Universal Drafting Machine Co., Blackstone bldg, Cleveland, O.

### 6273— Drain Tile Machinery

American Clay Machinery Co., Bucyrus, O.
Anderson Fdry. & Mach. Works (Vertical), Anderson, Ind.
Arnold-Creager Co., New London, O.
Besser Mfg. Co., Alpena, Mich.
Bonnot Co., Canton, O.
Brazil Machine & Foundry Co., Brazil, Ind.
Brewer, H. & Co., Tecumseh, Mich.
Fate, J. D. Co., Plymouth, O.
Freese, E. M. & Co., Galion, O.
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Raymond, C. W. Co., Dayton, O.
Scott-Madden Iron Works Co. (Auger Tile Machines), St. Louis, Mo.
Smidth, F. L. & Co., 50 Church, New York
Wallace Mfg. Co., Frankfort, Ind.

### 6274—Draw Bridge Machinery

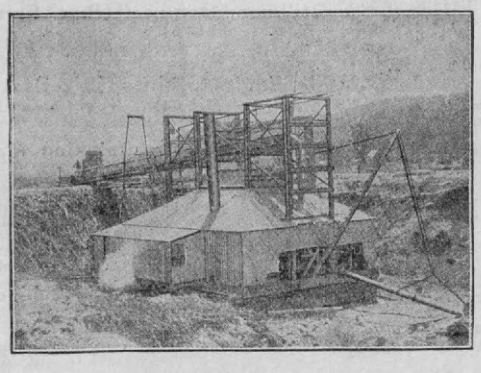
(See also Bridge Machinery for Bascule Bridges)
Currier, Cyrus & Sons, Newark, N. J.
Edwards, Jos. & Co. (For Opening Draw Bridges), 414 Water, New York
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)**
**FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa.** (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
Nichols, Geo. P. & Bro. (Electric & Equipments), Old Colony bldg, Chicago, Ill
Smith, Theodore & Sons Co., ft. of Essex, Jersey City, N. J.

### 6275—Drawer Fitting Machines

Bentel & Margedant Co. (For Fitting & Sizing Drawers), Hamilton, O

### 6276— Dredging Machinery

(See also Excavators, Steam; also Excavating Machinery)
Atlantic, Gulf & Pacific Co., Park Row bldg., New York, & San Francisco, Cal.
**American Steel Dredge Co., Fort Wayne, Ind.**
Bartlett, A. F. & Co., Saginaw, Mich.
Beatty, M. & Sons, Welland, Ontario, Canada
Bellefontaine Foundry & Machine Co., Bellefontaine, O.
Browning Engineering Co., Cleveland, O.
Browning Mfg. Co., Cleveland, O.
Bucyrus Co., South Milwaukee, Wis.
Codd, E. J. Co., Baltimore, Md.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
**ELLICOTT MACHINE CO., Bush & Severn, Baltimore, Md.** (See adv. index, end of book)
Fairbanks Steam Shovel Co. (Steam Dredges), Marion, O.
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Globe Iron Works (Inc.), Stockton, Cal.
Golden State & Miners' Iron Works, San Francisco, Cal.
Hammond Mfg. Co. (Inc.), Portland, Ore.
Hardie Tynes Mfg. Co., Birmingham, Ala.
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Houston Car Wheel & Machine Co., Houston, Tex.
Jackson-Church-Wilcox Co., Saginaw, Mich.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Krogh Mfg. Co., San Francisco, Cal.
Marine Iron Co., Bay City, Mich.
Manitowoc Dry Dock Co. (Steel & Dipper Dredges), Manitowoc, Wis.
Marion Shovel & Dredge Co., Marion, O.



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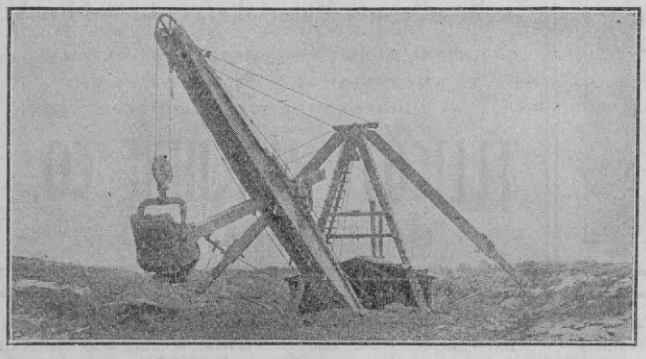
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SAN FRANCISCO: 718 Monadnock Building
MONTREAL: F. H. Hopkins & Co.


**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Mayer Bros. (Inc.) (Steam Dredges), Mankato, Minn.
Municipal Engineering & Contracting Co., R'y Exch. bldg, Chicago, Ill.
New York Engineering Co., 2 Rector, New York
Norbom Engineering Co. (Steam & Gas Power), Denckla bldg, Phila., Pa.
Ohio Steam Shovel & Dredge Co. (Dipper Dredges, etc.), Cincinnati, O.
Osgood Dredge Co., Albany, N. Y.
Portland Co., Portland, Me.
Smith, Theo. & Sons Co., Jersey City, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Stockton Iron Works (Portable), Stockton, Cal.
Superior Iron Works Co., Superior, Wis.
Toledo Foundry & Machine Co., Toledo, O.
Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.
United Iron Works, Oakland, Cal.
Vulcan Iron Works, 327 No Irving av, Chicago, Ill.
Vulcan Steam Shovel Co. (Bucket & Dipper Dredges). Toledo. O.
Wetherill Bros. Machine Co. (Hydraulic, Suction. etc.), Chester, Pa.
Willamette Iron & Steel Works, Portland, Ore.

### 6277—Dredging Machinery (Hydraulic)

Atlantic Gulf & Pacific Co., 15 Park row, New York
Bucyrus Co., S Milwaukee, Wis.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Edwards, Jos. & Co., 414 Water, New York
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Fairbanks Steam Shovel Co., Marion, O.
Great Lakes Engineering Works, Detroit, Mich.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Manitowoc Dry Dock Co. (Steel Hydraulic Bridges), Manitowoc, Wis.
Marion Shovel & Dredge Co., Marion, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
Norbom Engineering Co., Denckla bldg, Phila., Pa.
Pheling Suction Dredge Co., Whitehall bldg, New York
Springfield Boiler & Mfg. Co., Springfield. Ill.
Treadwell, M. H. Co., 90 West New York; Works: Lebanon, Pa.
Wetherill Bros. Machine Co., Chester, Pa.

### 6277a—Dried Beef & Bacon Slicing Machines

**LINK BELT COMPANY ("Link Belt"** Automatic), Hunting Park av & Reading, Ry., Phila., Pa. (See adv. index & branch offices, end of book)

### 6278—Drill Sharpening Machines

(See also Sharpeners, Drill)

Leyner, J. Geo. Engineering Works Co. ("Leyner"), Littleton, Colo.
**Shaw, C. H. Pneumatic Tool Co. ("Shaw,"** for Air Rock Drills, etc.), Denver, Col.

### Drilling Machines

(See Drills of Various Kinds; also classifications of Drilling Machines immediately following)

### 6279—Drilling Machines (Bit Brace)

McCrea, Jas. & Co. ("Century"), 558 W Wash'n, Chicago, Ill.

### 6280—Drilling Machines (Boiler)

American Tool Works Co., Cincinnati, O.
Aurora Tool Works, Aurora, Ind.
Cincinnati-Bickford Tool Co., Cincinnati, O.
**DALLETT, THOS. H. CO. (Electric),** 2300 York, Phila., Pa. (See adv. index, Foote-Burt Co., Cleveland, O. end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Prentice Bros. Co., Worcester, Mass.
Sellers, Wm. & Co., 1600 Hamilton, Phila.,Pa.
Silver Mfg. Co., Salem, O.

### 6280a—Drilling Machines (Cement)

**COATES CLIPPER MFG. CO., Wor-** cester, Mass. (See adv. index, end of book)

### 6281—Drilling Machines (Cotter & Key-Seat)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

### 6282—Drilling Machines (Pipe Pressure)

Mueller, H. Mfg. Co. ("The Eley"), Decatur, Ill.

### 6282a—Drilling Machines (Rivet)

**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 6283—Drilling & Countersinking Machines

Baush Machine Tool Co., Springfield, Mass.
Detrick & Harvey Machine Co. (Radial), Baltimore, Md.
Fitchburg Machine Works, Fitchburg, Mass.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 6284—Drilling & Milling Machines (Combined)

Fosdick Machine Tool Co., Cincinnati, O.
Knight, W. B. Machinery Co. ("Knight"), St. Louis, Mo.
Rochester Boring Machine Co., Rochester, N. Y.

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### 6285—Drilling & Tapping Machines

American Tool Works Co., Cincinnati, O.
Aurora Tool Works, Aurora, Ind.
Baker Bros., Toledo, O.
Barr, H. G., Worcester, Mass.
Barr, H. G. & Co., Worcester, Mass.
Cincinnati-Bickford Tool Co. (Upright, Heavy Pattern), Cincinnati, O.
Fay Machine Tool Co. (Drilling, Threading & Tapping). 2d & Glenwood av, Phila., Pa.
Fosdick Machine Tool Co. (Drilling, Boring, Tapping & Milling), Cincinnati, O.
Frontier Iron Works, Buffalo, N. Y.
Gang, Wm. E. Co. (Radial), Cincinnati, O.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Garvin Machine Co., 137 Varick, New York
Gould & Eberhardt. Newark, N. J.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Stow Mfg. Co. (Portable), Binghamton, N. Y.

### 6286—Drilling & Tapping Machines (Combined)

Anderson Machine Works (For Water Backs for Stoves & Ranges, etc.), Peekskill, N. Y.
Baush Machine Tool Co., Springfield, Mass.
Barr, H. G. & Co., Worcester. Mass.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.

### 6287—Drop Forging Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### Drying Machinery

(See Dryers, Various Kinds)

### 6288— Duck Slitting Machines

Thropp, William R., Trenton, N. J.

### Duplicating Machines

(See Duplicators)

### Dyeing Machinery

(See Textile Machinery)

### 6289—Eave Trough Hanger Machines

Birch & Birch (Automatic Wire), Crawfordsville, Ind.
**RICHARDS-WILCOX MFG. CO., Aurora, Ill.** (See adv. index & branch offices, end of book)

### 6290—Eave Trough Wire Hanger Twisting Machine

**CANTON FOUNDRY & MACHINE CO.** ("Universal"), Canton, O. (See adv. index, end of book)

### Eave Trough & Conductor Pipe Machinery

(See Conductor Pipe & Eave Trough Machinery)

### 6291— Edging Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Grammes, L. F. & Sons, Allentown, Pa.

### 6292—Edging or Lock-Folding Machines

**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummell," for Tin & Sheet Metal Work), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
**BLISS, E. W. CO. (For Tin & Sheet** Metal, 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

### 6293— Edging Saw Machines

**American Saw Mill Machinery Co., Hackettstown, N. J.**
American Wood Working Machinery Co., Rochester, N. Y., West St bldg, New York
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.
Filer & Stowell Co., Milwaukee, Wis.
Fisher & Davis Mfg. Co., St. Louis, Mo.
Garvin Machine Co., 137 Varick, New York
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Mach'y Co., Buffalo, N. Y.
Lane Mfg. Co., Montpelier, Vt.
Mecklenburg Iron Works, Charlotte, N. C.
Sinker-Davis Co., Indianapolis, Ind.
Union Iron Works, Bangor, Me.
Wickes Bros., Saginaw, Mich.

### 6294—Elbow Seam Closing Machines

**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

### 6295—Electric Massage Machines

**COATES CLIPPER MFG. CO.** ("Coates"), Worcester, Mass. (See adv. index, end of book)

### 6296—Electric Mining Machinery

(See Mining Machinery, Various Kinds)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Morgan-Gardner Elec. Co., 27th & Shields av, Chicago, Ill.
Pneumelectric Machine Co., Syracuse, N. Y.

### 6296a—Electric Power & Lighting Machinery

(See also Dynamos & Motors; also Generators, Various Kinds)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end end of book)
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC COMPANY,** Mansfield, O. (See adv. index, end of book)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

### 6296b—Electric Tunneling Machines

Jackson, Geo. W. (Inc.) ("Jackson"), 756 W Jackson blvd, Chicago, Ill.

### 6297—Electric Wire Making Machinery

Watson Machine Co., Paterson, N. J.

### 6297a—Electrical Goods Mfrs. Machinery (Sheet Metal)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6298—Electrical Porcelain Machinery

**CROSSLEY MACHINE CO. (Also** Dies, etc.), State & Monmouth, Trenton, N. J. (See adv. index, end of book)
Patterson Foundry & Machine Co., East Liverpool, O.

### Electrical Wire & Cable Covering Machinery

(See Wire & Cable Covering Machinery)

### 6299—Electro-Dental Machinery

Consolidated Dental Mfg. Co., 130 Washington pl, New York
Russell, Percy. 12 E 23d, New York
White, S. S. Dental Mfg. Co., 5 Union sq, New York

### 6300—Electro Plating Machines

(See also Dynamos, Electro Plating)
**GLOBE MACHINE & STAMPING CO.** (Barrel Process), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

### 6301—Electro & Linotype Sawing Machines

Kidder, R. E., Worcester, Mass.
Hoe, Rob't & Co., 504 Grand, New York
Wesel, F. Mfg. Co., 70 Cranberry, B'klyn, N.Y.

### 6302— Electrotype Machinery

Herrick & Cowell, New Haven, Conn.
Hollingsworth, Wm., Baltimore, Md.

### 6303—Electrotype Trimming Machines

Royle, Jno. & Sons (Inc.), Paterson, N. J.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER


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**Hendricks' Commercial Register**


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## 6304—Elevating & Conveying Machinery

(See also Conveyors, Various Kinds; also Cranes, Various Kinds; also Derricks, Various Kinds; also Elevators, Various Kinds; also Hoists, Various Kinds; also Tramways & Trolleys, Overhead; also Wire Rope Tramways)

See also Index of Contents for the specific article required.

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index, end of book)

**CALDWELL, H. W. & SON CO.,** 17th & Western av, Chicago, Ill. (See adv. index, end of book)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)

**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

**MEAD-MORRISON MFG. CO., Cambridge,** Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

**NORTHERN ENGINEERING WORKS,** Chene & Atwater, Detroit, Mich. (See adv. index, end of book)

**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)

**SPRAGUE CANNING MACHINERY** Co., 42 River, Chicago, Ill. (See adv. index, end of book)

**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

**WEBSTER MFG. CO. (For All Purposes),** 2410 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

**WELLER MFG. CO. ("Helicoid"), 118** North av, Chicago, Ill. (See adv. index, end of book)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 6305—Elliptic Spring Machinery

Pratt & Whitney Co., Hartford, Conn.

## 6306— Embossing Machines

**BLISS, E. W. CO. (Sheet Metal** Work), 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

Cavagnaro, Jno. J., 255 Centre, New York

Currier, Cyrus & Sons (Presses & Rolls for Leather), Newark, N. J.

Detroit Embossing Machine Co., 45 Fort, E, Detroit, Mich.

Dewes, A. Co., 243 Centre, New York

Dietz Machine Works (Paper), 126 Fontain, Phila., Pa.

Firth, Wm. Co. (Leather, Lockett, Crossland & Co.'s), Boston, Mass.

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. adv. index, end of book)

Grammes, L. F. & Sons (Lever, for Wood, Paper, Cloth, Silk, etc.), Allentown, Pa. **(See adv. index, end of book)**

Latham Machinery Co. (Bookbinders), 306 S Canal, Chicago, Ill.

Randall, J. D. Co. (Leather, etc.), Cincinnati, Ohio

Royal Machine Co. (Tin, Sheet Metal, Leather, Paper, etc.), Newark, N. J.

Seybold Machine Co., Dayton, O.

Sheridan, T. W. & C. B. Co. (Bookbinders'), 50 Duane, New York

Stimpson, Edwin B. Co. (For Leather, Card boards, etc.), 31 Spruce, New York

Traud, Alex. Co., Newark, N. J.

Union Embossing Machine Co. ("Climax" Wood), Anderson, Ind.

Waldron, John Co., New Brunswick, N. J.


**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.


## 6307—Embossing & Drop Carving Machines

Union Embossing Machine Co. ("New Automatic" & "Climax"), Anderson, Ind.

## 6308— Embroidering Machines

Ahlstrom, O. J., 711 B'way, New York

Durbrow & Hearne Mfg. Co. ("Bonnoz" & "Swiss"), 12 Wooster, New York

## Emery Grinding Machines

(See Grinders, Emery)

## 6309— Enamel Cloth Machinery

Currier, Cyrus & Sons, Newark, N. J.

## 6309a—Enamel Ware Machinery (Sheet Metal)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 6310— Engraving Machines

Diamond Machine Co., Providence, R. I.

Field, Chas. H., Providence, R. I.

Francis, A. E., 780 Cedar av, Cleveland, O.

Gorton, Geo. Machine Co. (For Engraving Name & Direction Plates), Racine, Wis.

Hope, John & Son (For Grading Steel Scales), Providence, R. I.

Keller Mechanical Engraving Co., 570 W B'way, New York

## 6311— Envelope Machines

Blackhall Mfg. Co., 196 Seneca, Buffalo, N. Y.

Brown Bag Filling Machine Co., Fitchburg, Mass.

Brown Bros., Warren, O.

Cooley & Trevor, Hartford, Conn.

Dietz Machine Works (Open End, Side Seam, etc.), 126 Fontain, Phila., Pa.

Hobbs Mfg. Co., Worcester, Mass.

Hopkinson Machine Works, Springfield, Mass.

Kidder, R. E., Worcester, Mass.

Lester & Wasley, Norwich, Conn.

Powers, Frank B., 52 Taylor, Springfield, Mass.

Royal Machine Co., Newark, N. J.

Schmidt, F. L., 11th av & 21st, New York

Sherman, John, Worcester, Mass.

## 6312—Envelope Sealing Machines

Acorn Brass Mfg. Co. ("Thexton," Hand & Power), Aurora, Ill.

Automatic Envelope Sealing & Stamping Co., Providence, R. I.

Grant Mfg. & Machine Co., Bridgeport, Conn.

Ideal Envelope Sealer Co., Cleveland, O.

**NATIONAL ENVELOPE SEALING &** Stamping Co. ("National"), New John Hancock bldg, Boston, Mass. (See adv. index, end of book)

National Envelope Sealing & Stamping Machine Co., Boston, Mass.

Reynolds, H. J. & Co., 55 State, Chicago, Ill.

Simplex Mfg. Co. ("Simplex"), 90 West, New York

**Threadeasy Needle Co. ("Jaynes"), Minneapolis, Minn.**


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### 6312a—Envelope Sealing & Stamping Machines (Combined)

**NATIONAL ENVELOPE SEALING & Stamping Co.** ("National"), New John Hancock bldg, Boston, Mass. (See adv. index, end of book)

### 6313—Envelope Stamping Machines

Automatic Envelope Sealing & Stamping Co., Providence, R. I.
Curtiss & Reichhelm ("C. & R."), Detroit, Mich.
**NATIONAL ENVELOPE SEALING &** Stamping Co. ("National," Hand), New John Hancock bldg, Boston, Mass. (See adv. index, end of book)
Office Appliance Mfg. Co. ("White"), Providence, R. I.

### 6314— Excavating Machinery

(See also Dredging Machinery; also Shovels, Steam; also Sewer & Trench Excavating Machines; also Ditching Machines)

Atlantic Gulf & Pacific Co., Park Row bldg, New York, & San Francisco, Cal.
Austin, F. C. Drainage Excavator Co., R'y Exch bldg, Chicago, Ill.
Bucyrus Co., South Milwaukee, Wis.
Carson Trench Machine Co., 16 Dorrance, Boston, Mass.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Fairbanks Steam Shovel Co., Marion, O.
**HAYWARD CO., THE, 50 Church,** New York. (See adv. index, end of book)
Heyworth, J. O. (Heyworth-Newman), Harvester bldg, Chicago, Ill.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Jackson, Geo. W. (Inc.), 756 W Jackson blvd, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kingsford Foundry & Machine Works, Oswego, N. Y.
**LAMBERT HOISTING ENGINE CO.,** Main Office & Works: 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)
Marion Shovel & Dredge Co., Marion, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Portland Co., 58 Fore, Portland, Me.
Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.
Toledo Foundry & Machine Co., Toledo, O.
Urie-Snyder Iron Works Co., Kansas City, Mo.
Vulcan Steam Shovel Co., Toledo, O.

### 6315— Excelsior Machinery

American Saw Mill Machinery Co., Hacketts-Fifield Bros., Augusta, Me. town, N. J.
Fisher & Davis Mfg. Co., St. Louis, Mo.
Howell, R. R. & Co., Minneapolis, Minn.
Humphrey Machine Co., Keene, N. H.
Indianapolis Excelsior Machinery Co., Indian-Kline, Lewis T., Alpena, Mich. apolis, Ind.

### 6316—Expanded Metal Lath Machinery

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

### 6317—Eye Bending or Eye Bolt Machines

Williams, White & Co., Moline, Ill.

### 6318— Eyelet Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
Manville Bros., Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Sheridan, T. W. & C. B. Co. (Bookbinders, etc.), 56 Duane, New York
Shipman, Geo., West Bridgewater, Mass.
Stimpson, Edwin B. Co. (Gang), 31 Spruce New York
United Shoe Machinery Co., Boston, Mass.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### Face Grinding Machines

(See Grinders)

### 6319—Facing Machines (Three-Way)

Beaman & Smith Co., Providence, R. I.

### 6319a—Faucet or Bib Re-Seating Machines

Long, Adam A., Rochester, N. Y.

### Felloe Machinery

(See Carriage Builders' Machinery)

### Felt Hardening Machinery

(See Felt Hardeners)

### 6320— Fence Machines (Wire)

**Brazil Machine & Foundry Co., Brazil, Ind.**
Carter Wire Fence & Machine Co., Mt. Sterling, O.
Cyclone Fence Co. ("Cyclone"), Waukegan, Ill.
Cyclone Woven Wire Fence Co. (Chain), Cleveland, O.
Deuscher, H. P. Co. ("Hamilton"), Hamilton, Ohio
Elliott & Reid Co. (Wire & Picket), Richmond, Ind.
Eureka Fence Mfg. Co. ("Eureka," "Little "Giant," "New Robinson," Wire & Picket), Richmond, Ind.
Gem Wire Fence Co., Pontiac, Mich.
Jackson Fence Co. ("Jackson"), Jackson, Mich.
Johnston & Jennings Co., Cleveland, O.
Kitselman Bros. (Woven Wire), Muncie, Ind.
Kokomo Fence Machine Co. (Automatic Woven Wire), Kokomo, Ind.
Lyle & Reynolds, Crawfordsville, Ind.
Missouri Anchor Fence Co., St. Joseph, Mo.
Standard Wire Fence Co. ("Standard"), Canandaigua, N. Y.

### 6321— Fertilizer Machinery

(See also Pulverizing Machinery)

Atlanta Utility Works, East Point, Ga.
Blanchard Machine Co., Cambridge, Mass.
Buffalo Engine Co., Buffalo, N. Y.
Campbell, P. F., 55 Laurel, Phila., Pa.
Codd, E. J. Co., 700 S Caroline, Baltimore, Md.
Dempwolf, C. H. & Co. (Steel Mixers, etc.), York, Pa.
Flynn & Emrich Co., Baltimore, Md.
Hancock-Holmes Fdry. & Machine Works, Atlanta, Ga.
Marquette, John N., Baltimore, Md.
Pratt Engineering & Machine Co., Atlanta, Ga.
Renneburg, E. & Sons Co., Baltimore, Md.
Sackett, August J., Baltimore, Md.
**SCHULE, F. H. CO. (Automatic** Scales), 114-118 Liberty, New York. (See adv. index, end of book)
**SMITH, T. L. CO., THE ("Smith,"** Mixers), Majestic bldg. Milwaukee, Wis. (See adv. index & branch offices, end of book)
Stedman's Foundry & Machine Works, Aurora, Ind.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Valk & Murdock Iron Works, Charleston, S. C.
Walker & Elliott, Wilmington, Del.

### 6322—Fibre Cleaning Machines

Spangler Mfg. Co. ("Smith" Automatic), York, Pa.

### 6323— Fibre Machinery

**BARTLETT, C. O. & SNOW CO.** (For Wood Fibre, Plaster, etc.), French st, Cleveland, O. (See adv. index & branch offices, end of book)
Ehrsam, J. B. & Sons Mfg. Co. (Wood), Enterprise, Kans.
Fuller Mfg. Co. ("Leonard"), Elyria, O.
Wood Fiber Machinery Co., Sandusky, O.

### 6324—Fibre Machinery (Hard Fibre)

Downingtown Mfg. Co., East Downingtown, Pa.
National Machine Co. (For Making Rods, Tubes & Sheets), Wilmington, Del.
Pusey & Jones Co., Wilmington, Del.

### Field Coil Winding Machines

(See Armature & Field Coil Winding Machines)

### 6325— File Machinery

Hess Machine Works (Also Rasp Machinery) (Jno. A. Hess), 2512 Callowhill, Phila., Pa.

### 6326—File Recutting Machinery

Daggs Mfg. Co., Rochester, N. Y.

### 6327— File Room Machinery

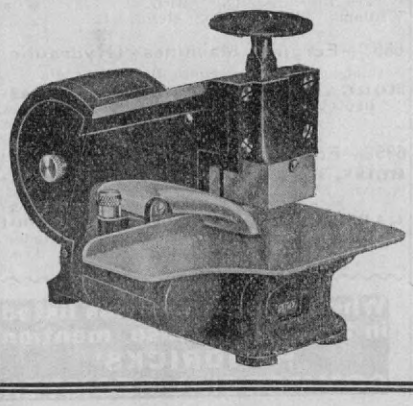
(See also Saw Filing & Setting Machines; also Band Saw Setting Machines)

Covel Mfg. Co., Benton Harbor, Mich.
Hanchett Swage Works, Big Rapids, Mich.
Rotary File & Machine Co., 200 Diamond, Brooklyn, N. Y.

### 6328—File Sharpening Machines

(See also Sharpeners, File)

Columbus Pneumatic Tool Co. ("Dunlop"), Columbus, O.
Robinson Tool Works ("Hartford"), Waterbury, Conn.

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### 6329—File Testing & Indicating Machines

Olsen, Tinius & Co. ("Herbert," Automatic), 500 W 12th, Phila., Pa.

### 6330— Filing Machines

Cochrane-Blye Co. (For Sawing Out & Filing Blanking Dies), Rochester, N. Y.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Robinson Tool Works ("Hartford" Die), Waterbury, Conn.
Simplex Mfg. Co. ("Simplex Combination"), 90 West, New York
Waltham Machine Works (For Die Work), Waltham, Mass.

### 6331—Filter Cloth & Bag Washing Machines

**American Laundry Machinery Mfg. Co., 80 Franklin, Chicago, Ill.**

### 6332— Fire Hose Machinery

**Royle, Jno. & Sons (Inc.), Paterson, N. J.**

### 6333—Fire-Proofing Machinery

American Clay Machinery Co., Bucyrus, O.
Bonnot Company, Canton, O.
Fate, J. D. Co., Plymouth, O.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

### 6334— Fish Line Machinery

Brownell, G. L., Worcester, Mass.

### 6335— Fishing Net Machinery

Fowler Net & Twine Co., 107 S 2d, Phila., Pa.

### 6336— Flanging Machines

(See also Presses, Hydraulic Flanging)

Alliance Machine Co., Alliance, O.
Ams, Max Machine Co. (Automatic for Can Makers), Mount Vernon, N. Y.
**BLISS, E. W. CO. (Sheet Metal),** 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Keene, Geo. C. & Co., Cincinnati, O.
Leffler, Chas. & Co. (Can Body, etc.), 49 Clymer, Brooklyn, N. Y.
**MORGAN ENGINEERING CO. ("Universal," Hydraulic, for Boiler Heads, etc.),** Alliance, O. (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL W'KS.** (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co. (Boiler Head, etc.), 111 B'way, New York
Wickes Bros., Saginaw, Mich.

### 6337— Flint Machines

Koegel, Chas. & Sons, Holyoke, Mass.

### 6338—Floor Polishing Machines

**Schlueter, M. L. (Tile & Composition), 103 N** Canal, Chicago, Ill.

### 6339—Floor Scraping Machines

(See also Scrapers, Floor)

Ackerman, J. B. Co. ("Ackerman's" Rapid), Grand Rapids, Mich.
Daisy Mfg. Co. ("Daisy"), South Bend, Ind.
Dosch Mfg. Co. ("Champion"), Bridgeport, Conn.
Fox Mfg. Co. ("Fox"), Brooklyn, Wis.
Hurley Machine Co. ("Little Giant"), 31 S Clinton, Chicago, Ill.
**Kepplinger, G. J. ("Boss"), Dwight, Ill.**
**MARSH CO. ("Henderson" Electric),** Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Miotke, Jos. ("Acme"), Milwaukee, Wis.**
**Phillips, T. L. ("Ideal"), Aurora, Ill.**
Triple "A" Machine Co. ("Anderson" Automatic Adjustable), 114 S Clark, Chicago, Ill.
Weber Mfg. Co. ("Weber," Double Acting), West Allis, Wis.

### 6340—Floor Scrubing Machines

Inter-State Equipment & Engineering Co. ("Little Shaver"), Old Colony bldg, Chicago, Ill.
Miotke, Joseph ("Acme"), 247 Lake, Milwaukee, Wis.

### 6341— Floor Surfacing Machines

American Floor Surfacing Machine Co., Toledo, O.
Atlas Machine Co. ("Atlas" Electric), Providence, R. I.
Dosch Mfg. Co. ("Champion"), Bridgeport, Ct.
Electric Floor Surfacer Co., 110 East 30th, New York
**MARSH-CAPRON MFG. CO. ("Henderson," Electric),** 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book
**MARSH CO. ("Henderson" Electric),** 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Miotke, Jos. ("Acme"), Milwaukee, Wis.**
Perfect Floor Surfacing Co., Cincinnati, O.
St. Louis Machine Floor Surfacing Co. (Electrical), 2636 Olive, St. Louis, Mo.
Schlueter, M. L. ("Schlueter," Rapid Electric), 103 N Canal, Chicago, Ill.
Triple "A" Machine Co. ("Triple A"), 114 S Clark, Chicago, Ill.

### 6342—Flour Blending Machinery

Day, J. H. Co., Cincinnati, O.
Hicks, Geo. J., Inc., 154 Nassau, New York
Prims Machinery Co., Battle Creek, Mich.
**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book)
Wolf Co. (For Bakeries), Chambersburg, Pa.
Wolf, Fred., Kansas City, Mo.

### 6343— Flour Mill Machinery

(See also Grain Elevator Machinery, Etc.)

Acme Mill Works, Greensboro, N. C.
Albany Iron Works, Albany, Ore.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Alsop Process Co., St. Louis, Mo.
Barnard Machinery Co., Enterprise, Kan.
Barnard & Leas Mfg. Co., Moline, Ill.
Barnard Mfg. Co., Spokane, Wash.
Barry-Wehmiller Machinery Co., St. Louis, Mo.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Bauer Bros. Co., Springfield, O.
Beall Improvements Co., Decatur, Ill.
Bullock, C. K., 1357 Ridge av, Phila., Pa.
Burrell Mfg. Co., Bradley, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Campbell, P. F., 55 Laurel, Phila., Pa.
Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.
**Essmueller Mill Furnishing Co., 1216 S 8th,** St. Louis, Mo.
Fraser Co., Milwaukee, Wis.
Great Western Mfg. Co., Leavenworth, Kan.
Gump, B. F. Co. (Rebuilt Machinery), 250 S Clinton, Chicago, Ill.
Hammond-Homberger Co., Silver Creek, N. Y.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co., Silver Creek, N. Y.
Hutchinson, Jno. Mfg. Co., Jackson, Mich.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Montpelier Cup & Metal Works, Montpelier, Ind.
Moore & Lorenz Co., 115 S Clinton, Chicago, Ill.
Munson Bros. Co., Utica, N. Y.
Nashville Machine Co., Nashville, Tenn.
Nordyke & Marmon Co., Indianapolis, Ind.
Noye Mfg. Co., 50 Lakeview av, Buffalo, N. Y.
Portland Iron Works (Inc.), Portland, Ore.
Prinz & Rau Mfg. Co., Milwaukee, Wis.
Reuter-Jones Mfg. Co., St. Louis, Mo.
Richmond Mfg. Co., Lockport, N. Y.
Salem Foundry & Machine Works, Salem, Va
Savage, W. J. Co., Knoxville, Tenn.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Silver Bros. Iron Wrks. Co., Salt Lake, Utah
Southern Engine & Boiler Wks., Jackson, Tenn.
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
Starr, B. F. Co., 455 North, Baltimore, Md.
Stauffer, Geo. E., E. Stroudsburg, Pa.
Straub Machinery Co., Cincinnati, O.
Strong-Scott Mfg. Co., Minneapolis, Minn.
Ty-sa-man Machine Co., Knoxville, Tenn.
**UNION IRON WORKS, Inc., 630 E** William, Decatur, Ill. (See adv. index, end of book)
Willamette Iron & Steel Works, Portland, Ore.
Willford Mfg. Co., 303 S 3d, Minneapolis, Minn.
Wolf Co. (Complete Plants), Chambersburg, Pa.
Ypsilanti Machine Wks., Ypsilanti, Mich.

### 6344— Flower Pot Machinery

American Clay Machinery Co., Bucyrus, O.
**CROSSLEY MACHINE CO., State & Monmouth, Trenton, N. J. (See adv. index-end of book)**
Rockwood Mfg. Co., Indianapolis, Ind.
Rookwood Pottery Co., Cincinnati, O.
Taplin-Rice-Clerkin Co., Akron, O.

### 6345—Flue Cleaning Machinery

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6346—Flue Welding Machines

(See also Furnaces, Flue Welding; also Pneumatic Flue Welders)

Hartz, H. V. Co. (Inc.), Cleveland, O.
Hauck Mfg. Co., 140 Cedar, New York
**MacLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Maddocks & Herschell (Automatic Hand & Power), Princeton, Ind.
**Princeton Machine Works ("Herschell" Automatic Hand & Power), Princeton, Ind.**
**RYERSON, JOS. T. & SON ("Ferguson"), 2558 W 16th, Chicago, Ill. (See** adv. index & branch offices, end of book)

### 6347—Fluting & Plaiting Machines

North Bros. Mfg. Co. ("Crown" & "Knox," "American" & "Eagle" Fluting Machines), Lehigh av & American, Phila., Pa.

### 6348— Fly Inserting Machines

Hobbs Mfg. Co. (For Paper Box Makers), Worcester, Mass.

### 6349—Foot Power Sawing Machines

Millers Falls Co. ("Cricket"), 28 Warren, New York; Works: Millers Falls, Mass.

### 6350— Forging Machines

(See also Hammers, Power; also Presses, Power; also Presses, Hydraulic Forging; also Bulldozer or Bending Machines)

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.
Beaudry & Co. (Inc.) (Forging Presses), 141 Milk, Boston, Mass.
Bethlehem Steel Co., South Bethlehem, Pa.
Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Chambersburg Engineering Co. (Forging Presses, Hydraulic), Chambersburg, Pa.
Consolidated Press & Tool Co., Hastings, Mich.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**MERRILL BROS. (Hammers), 5** William, Maspeth (Borough of Queens), New York. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scranton & Co., New Haven, Conn.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
United Engineering & Foundry Co., Pittsburg, Pa.
Wickes Bros., Saginaw, Mich.
Williams, White & Co., Moline, Ill.

### 6351—Forging Machines (Hydraulic)

Bethlehem Steel Co., South Bethlehem, Pa.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)

### 6352—Forging Machines (Sheet Work)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

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6353—Forging & Bending Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

**FORGING PRESSES and MACHINERY**
**BULLDOZERS SHEARS**
*A. Garrison Foundry Co.*
**901 Bingham St. Pittsburgh, Pa.**

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

6354—Forming Machines (Hydraulic)

**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

6355—Forming & Bending Machines

(See also Wire Forming Machines; also Wood Forming Machines)

Adriance Machine Works, Brooklyn, N. Y.
Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.
**AMERICAN CAN CO. (Machinery** Dept.) (For Tin & Sheet Metal), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Badger State Machine Co., Janesville, Wis.
Baird Machine Co., Oakville, Conn.
Baker, Jas. H., Pittsburg, Pa.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Consolidated Press & Tool Co., Hastings, Mich.
Coulter & McKenzie Machine Co. (For Wire & Sheet Metals), Bridgeport, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Hilles & Jones Co., Wilmington, Del.
Lang, E. M. Co., Portland, Me.
Leffler, Chas. & Co. (Can Forming, Bending, etc.), 63 Clymer, Brooklyn, N. Y.
**LONG & ALLSTATTER CO. (Horizontal),** Hamilton, O. (See adv. index, end of book)
National Machinery Co., Tiffin, O.
**NIAGARA MACHINE & TOOL** Works (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co. (Sheet Metal), Newark, N.J.
Peck, Stow & Wilcox Co. (Sheet Metal), Southington, Conn.
Pocock, Oliver (Sheet Metal), Cincinnati, O.
Robinson, J. M. Mfg. Co. (Sheet Metal), Cincinnati, O.
Royal Mfg. Co. (For Light Shapes), Lancaster, Pa.
Swaine, Fred. J. Mfg. Co. (Can Body), 1300 N 7th, St. Louis, Mo.
Wallace Supply Co., 120 N Jefferson, Chicago, Ill.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Whiting, Geo. Co. (Forming), 1701 Elston av, Chicago, Ill.
Wickes Bros., Saginaw, Mich.
Williams, White & Co., Moline, Ill.
Wood, Wm. H., Media, Pa.

6356— Foundry Machinery

(See also the Specific Article Required)

Allen, Chas. G. Co., Barre, Mass.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Foundry Molding Machines

(See Molding Machines, Foundry)

6357—Fourdrinier & Cylinder Paper Machines

Bellows Falls Machine Co., Bellows Falls, Vt.
Beloit Iron Works, Beloit, Wis.
Emerson Mfg. Co., Lawrence, Mass.
Moore & White Co., 15th & Lehigh av, Phila., Pa.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Sandy Hill Iron & Brass Works, Hudson Falls, N. J.

6358—Frasing Machines (Hot)

Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.

6359—Fraying Machines (Carpet)

Reed Mfg. Co. (Hand & Power), Springfield, O.

Freight Handling Machines

(See Conveyors, Freight)

6360— Fruit Can Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

6361—Fruit Cleaning & Breaking Machines

American Fruit Machinery Co., Drexel bldg, Phila., Pa.

6362—Fruit Grading & Packing Machines

Anderson-Barngrover Mfg. Co., San Jose, Cal.
Renneberg, E. & Sons Co., Baltimore, Md.

Fruit Package Stapling Machines

(See Wire Stapling Machinery)

Fruit Paring Machines

(See Parers, Fruit & Vegetable)

6363—Fruit & Vegetable Pulp Rubbing Machines

Kelso & Co., 559 W Quincy, Chicago, Ill.

Fuel Briquetting Machinery

(See Briquetting Machines)

6364— Fuel Gas Machines

**AMERICAN GAS FURNACE CO.** (Naphtha Gas), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

6365—Fuller's Earth Machinery

**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

Fur Dressing Machinery

(See Fur Manufacturers' Machinery)

6366—Fur Manufacturers' Machinery

Almond, David (Blowers, Mixers, Cutters, etc.), Newark, N. J.
Cory & Little (For Combing, Washing & Clipping For Skins), Gloversville, N. Y.
Piel, Bernard F. (Tramping & Tubbing Machines, etc.), 56 Humboldt, Brooklyn, N. Y.

6367—Furnace Charging Machines

(See also Furnaces, Various Kinds)

Hagan, Geo. J., Pittsburg, Pa.
**MORGAN ENGINEERING CO. (For** Both Horizontal & Vertical Furnaces), Alliance, O. (See adv. index, end of book)

6368—Furnace Pipe Seaming Machines

**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)

6369—Furniture Nail Machines

Blake & Johnson Co., Waterbury, Conn.

6370— Gaining Machines

Bentel & Margedant Co. (Automatic Traversing, Triple Axle Car & Gang), Hamilton, Ohio

6371— Galvanizing Machinery

Erie Foundry Co., Erie, Pa.
Keystone Nail Co. ("Porter" for Small Articles), 1618 Wash'n av., Phila., Pa.
Turner, Vaughn & Taylor Co. (For Wire Only), Cuyahoga Falls, O.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

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### 6372—Gang Cleat Ripping Machines

Rogers Iron Mfg. Co. (Seven Saw, for Boxes & Crates), Muskegon, Mich.

### Gang Drilling Machines

(See Wood Gang Drilling Machines; for Metal Drills, see Drills, Gang)

### 6373— Gang Slitting Machines

**NIAGARA MACHINE & TOOL W'KS.** (For Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)

### Garbage Disposal Machines

(See Garbage Disposal Plants)

### 6374— Gas Machines

American Gas Machine Co., Albert Sea, Minn.
Breiding Gas Machine Co., Sterling, Ill.
Coleman Gas Works Mfg. Co., 705 B'way, Cincinnati, O.
Davis Acetylene Co. (Carbide Feed), Elkhart, Ind.
Detroit Heating & Lighting Co. (Combination), Detroit, Mich.
Epworth Gas Light & Heating Co., Waterloo, Iowa
Gas Machinery Co. (Water), Citizens' bldg, Cleveland, O.
**GILBERT & BARKER MFG. CO.** ("Springfield"), Springfield, Mass. (See adv. index & branch offices, end of book)
Globe Light & Heat Co.. 150 Michigan av, Chicago, Ill.
Hinman Gas Machine Co., 7 Sherman, Boston, Mass.
Incandescent Light & Stove Co., Cincinnati, O.
**KEMP, C. M. CO. ("Climax," "Twentieth Century,"** for Generating Fuel Gas for Manufacturing), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)
Matthews Gas Machine Co., 40 Dearborn, Chicago, Ill.
National Light, Heat & Power Co. ("National," Air Tight Gas), 814 W Lake, Chicago, Ill.
National Light & Heating Co., Freeport, O.
Novelty Iron Works, Sterling, Ill.
Penna. Globe Gaslight Co., Broad & Arch. Phila., Pa.
**SPRAGUE CANNING MACHINERY** Co. (Underground), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Walther-Vogler Gas Machine Co., Davenport, Iowa
Walworth Mfg. Co., 132 Federal, Boston, Mass.

### 6375—Gas Machines (Acetylene)

Acetylene Apparatus Mfg. Co. ("Pilot," Model D), 157 Michigan av, Chicago, Ill.
Bay State Acetylene Generator Co., Taunton, Mass.
Beaver Mfg. Co. ("McKenzie"), Beaver, Pa.
Brauer Acetylene Lighting Co. ("Brauer"), Marshalltown, Ia.
Charbeneau, John C., Mount Clemens, Mich.
Coleman Gas Works Mfg. Co., Cincinnati, O.
Colt, J. B. Co. (Model N), 69 Warren, New York
Commercial Acetylene Co. (Safety Storage System), 80 B'way, New York
Davis Acetylene Fixture & Supply Co. (Carbide Feed), Elkhart, Ind
Eagle Generator Co. ("Eagle," Automatic) 1530 Pine, St. Louis, Mo
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book
Gem City Acetylene Generator Co., Dayton, O
General Acetylene Co. ("General"), 80 B'way New York
Hercules Mfg. Co., Chattanooga, Tenn.
Hill, Almon F. ("Hill" Storage & "White light"), Portland, Me
Hunter's Acetylene Gas Co. ("Hunter" Plunger), 59 Clark, Chicago, Ill.
Ideal Epworth Acetylene Co., Johnstown, Pa
**MILBURN, A. ALEXANDER CO.** (Generators for House Lighting, etc.), 505 W Lombard, Baltimore, Md. (See adv. index, end of book)


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Monarch Acetylene Co., Omaha, Neb.
National Welding & Mfg. Co., Buffalo, N. Y.
Norman Mfg. Co., Des Moines, Ia.
Rushmore Dynamo Works, Plainfield, N. J.
St. Clair Mfg. Co. ("Daytonia"), Dayton, O.
Sober, C. K., Lewisburg, Pa.
Sunlight Gas Machine Sales Co. ("Omega," "American"), 37 Warren, New York
Tirrill's Gas Machine Lighting Co., 509 5th av, New York
U. S. Standard Co. (Inc.) ("Commander"), Voorheesville, N. Y.
Victoria Mfg. Co., Auburn, Me.
Visser & Brown, Keokuk, Ia.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

### 6375a— Gas Machines (Fuel)

**KEMP, C. M. CO. ("Twentieth Century"),** 401 E Oliver, Baltimore, Md. (See adv. index, end of book)

### 6376—Gas Machines (Gasoline)

American Gas Machine Co., Albert Lea, Minn.
Economy Gas Lamp Co., Kansas City, Mo.
Economy Gas Machine Co. ("Economy"), Rochester. N. Y.
Freeport Gas Machine Co., Freeport, Ill.
Hawkeye Mfg. Co., Waterloo, Iowa
Incandescent Light & Stove Co., Cincinnati, O.
**KEMP, C. M. CO. ("Climax," "Twentieth Century,"** for Generating Fuel Gas for Manufacturing), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)
Matthews Gas Machine Co., 40 Dearborn, Chicago, Ill.
Stover Mfg. Co., Freeport, Ill.
Swen Gas Machine Co., Waterloo, Ia.
Walther-Vogler Gas Machine Co., Davenport, Iowa

### 6377—Gas Machines (Naphtha Gas)

**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**KEMP, C. M. CO. ("Twentieth Century,"** for Generating Fuel Gas for Manufacturing), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)

### 6378—Gas Retort House Machinery

Bronder, G. A., 229 B'way, New York

### 6379— Gas Works Machinery

(See also Gas Works Apparatus & Construction)
Gas Machinery Co. (Purifiers, Exhausters, Scrubbers, Valves, Washers, By-Product Machinery, etc.), Cleveland, O.
Isbell-Porter Co. (Charging & Discharging Machinery, Exhausters, Condensers, Scrubbers, Benches, Extractors, etc.), Newark, N. J.
Murray-Kerr Mfg. Co., Fort Wayne, Ind.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Western Gas Construction Co., Ft. Wayne, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

### 6380—Gate Hook Machines (Automatic)

Nilson, A. H. Machine Co., Bridgeport, Conn.

### 6381—Gear Cleaning Machines

Crowther, P. & Co. (Automatic), 170 Oliver, Boston, Mass.

### 6382— Gear Cutting Machines

Adams Co., Dubuque, Ia.
American Watch Tool Co. (Automatic Pinion & Wheel Cutters), Waltham, Mass.
Barber-Colman Co., Rockford, Ill.


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Blount & Lovell, 100 High, Boston, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Gear Cutting Machine Co. (Automatic), Cincinnati, O.
Eagle Tool & Machine Co. (Special Tools & Machinery), North Side, Pittsburg, Pa.
Fellows Gear Shaper Co., Springfield, Vt.
Flather, E. J. Mfg. Co., Nashua, N. H.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
Gould & Eberhardt (Automatic Steel Gear & Pinion Cutting Machines, etc.), Newark, N. J.
Herrick, Chas. E., Northampton, Mass.
Kentucky Gear & Machine Co. ("The Binder"), Louisville, Ky.
Meisselbach-Catucci Mfg. Co. ("Meisselbach-Catucci," Universal Hobbing Gear Cutter), Newark, N. J.
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
Newark Gear Cutting Machine Co. (Automatic), Newark, N. J.
Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co. (Involute & Epicycloidal), Fitchburg, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co. (Involute & Epicycloidal), Fitchburg, Mass.
Reynolds Pattern & Machine Co. (Automobile), Moline, Ill.
Slate, Dwight Machine Co. (Automatic High Speed), Hartford, Conn.
Sloan & Chace Mfg. Co. (Ltd.) (Automatic), Newark, N. J.
Spacke, F. W. Machine Co., Indianapolis, Ind.
Standard Mfg. Co. ("Standard," Automatic), Bridgeport, Conn.
Union Twist Drill Co. (Epicycloidal & Involute), Athol, Mass.
Waltham Machine Works (Small, Automatic), Waltham, Mass.
Whiton, D. E. Machine Co., New London, Conn.
Wolf Co. (Inc.), Chambersburg, Pa.
Young Machine & Tool Co., Worcester, Mass.

## 6383— Gear Hobbing Machines

**Adams Co. ("Farwell" Automatic), Dubuque,** Iowa
Barber-Colman Co., Rockford, Ill.
Gould & Eberhardt, Newark, N. J.
Lees-Bradner Co., Cleveland, O.
Meisselbach-Catucci Mfg. Co. ("Meisselbach-Catucci," Universal Hobbling Gear Cutter), Newark, N. J.
Reynolds Pattern & Machine Co. (Automobile), Moline, Ill.

## 6384—Gear Testing Machines

Adams Co. ("Farwell"), Dubuque, Ia.
**MORSE TWIST DRILL & MACHINE Co.,** New Bedford, Mass. (See adv. index, end of book)

## 6385—Gelatine Coating Machines

Colton, Arthur Co., Detroit, Mich.

## 6385a—German Silver Rolling Mill Machinery

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

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## 6386—Gin Saw Filing Machines & Gummers

Bradley Gin Saw Filer Co., Dallas, Tex.
Carver Cotton Gin Co., East Bridgewater. Mass.
Wood Gummer & Filer Co. ("Simplex," "Duplex"), Atlanta, Ga.

## 6387—Glass Beveling Machinery

(See also Glass Polishing Machines)
**COATES CLIPPER MFG. CO. ("Coates"** Glass Grinding Head), Worcester, Mass. (See adv. index, end of book)
**Lange, Henry G., 172 N May, Chicago, Ill.**

## 6388—Glass Decorating Machinery

Tilghman-Brooksbank Sand Blast Co. (Sand Blast Etching Machines), 1126 S 11th, Phila., Pa.

## 6389—Glass House Machinery

Acton, John (Glass Roughing, Smoothing, etc.), 118 John, Brooklyn, N. Y
Centre Foundry & Machine Co., Wheeling, W. Va.
Evans Mold & Machine Co., Uniontown, Pa.
Knott & Harker Co., Beaver Falls, Pa.
Muncie Foundry & Machine Co., Muncie, Ind.
Rosedale Foundry & Machine Co. (For Plate, Wire & Ribbed Glass), N. S., Pittsburg, Pa.
**SMITH, T. L. CO., THE (Glass Batch** Mixers), Majestic bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Sommerfeld Machine & Mfg. Co., Pittsburg, Pa.
Wheeling Mold & Fdry Co., Wheeling, W. Va.

## 6390—Glass Polishing Machines

Acton, John, 118 John, Brooklyn, N. Y.
**COATES CLIPPER MFG. CO. ("Coates"** Glass Grinding Head), Worcester, Mass. (See adv. index, end of book)
**Lange, Henry G., 172 N May, Chicago, Ill.**
Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa

## 6391— Glossing Machines

Chambers Bros. Co., 52d below Lancaster av, Phila., Pa

## 6392— Glove Machinery, Etc.

Corey & Little, Gloversville, N. Y.
Curtin-Hebert-Anthony Co. (Special Machine & Glove Sewing Machines, etc.), Gloversville, N. Y.
Haag, Wm. (Glove Cutting Dies, etc.), Gloversville, N. Y.

## 6393—Glue Factory Machinery

**Clyde Machine Works Co., 3911 Union av, Chicago, Ill.**
Joslin, Schmidt & Co., Cincinnati, O.

## 6394—Glue Jointing Machines

Berlin Machine Works, Beloit, Wis.
Falls Machine Co. (Automatic), Sheboygan Falls, Wis.
Linderman Machine Co. ("Linderman" Dovetail), Muskegon, Mich.

## 6395—Glue Spreading Machines

**Advance Machinery Co., Toledo, O.**
Boyle, John Machine Co., Peabody, Mass.
Fischer Machine Works (For Box Factories), 1845 Carroll av, Chicago, Ill.
**Francis, Chas. E. & Bro., Cincinnati, O.**
Grand Rapids Veneer Works, Grand Rapids, Mich.
**HAMMACHER, SCHLEMMER & CO.,** (Hand & Power), 133 4th av, New York (See adv. index, end of book)
Hayes Machine Co., Oshkosh, Wis.
**Monroe Machinery Co., Monroe, Mich.**
Towsley, Jno. T. Mfg. Co., Evans nr Gest, Cincinnati, O.

## 6396— Clycerine Machinery

Garrigues, Wm. E., Detroit, Mich.
Jobbins, Wm. F. (Inc.), Aurora, Ill.
Scott, Ernst & Co., Fall River, Mass.

## Gold Dredging Machinery

(See Dredges, Gold & Placer Mining)

## 6397—Gold Dusting Machines

Hinze, H., Tribune bldg, New York

## 6398— Graduating Machines

Altender, Theo. & Sons, 945 Ridge av, Phila., Pa.
Hope, Jno. & Sons Eng. & Mfg. Co., Providence, R. I.
LeBlond, R. K. Machine Tool Co., Cincinnati,
Oesterlein Machine Co., Cincinnati, O. Ohio

## 6399—Grain Cleaning & Grading Machinery

(See also Flour Mill Machinery)

Barnard & Leas Mfg. Co., Moline, Ill.
Beall Improvements Co., Decatur, Ill.
Best Mfg. Co., San Leandro, Cal.
Campbell, P. F., 55 Laurel, Phila., Pa.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor," for Elevators), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Johnson & Field Mfg. Co., Racine, Wis.
Messinger, S. S. & Son, Tatamy, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Owens, J. L. Co., Minneapolis, Minn.
Portland Iron Works ("The Eureka"), Portland, Ore.
Prinz & Rau Mfg. Co. (Iron Prince Scourer), Milwaukee, Wis.
Reuter-Jones Mfg. Co., St. Louis, Mo.

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**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
Stevens Mfg. Co., Joliet, Ill.
**UNION IRON WORKS, Inc. ("Western"),** 630 E William, Decatur, Ill. (See adv. index, end of book)

## 6400—Grain Elevator Machinery & Appliances

Barnard Mfg. Co., Spokane, Wash.
Barry-Wehmiller Machine Co., St. Louis, Mo.
**CALDWELL, H. W. & SON CO.,** 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Diamond Iron Works, Minneapolis, Minn.
Dodge Mfg. Co., Mishawaka, Ind.
Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kans.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gill, P. H. & Sons, Lorraine & Otsego, Brooklyn, N. Y.
Globe Machinery & Supply Co., Des Moines, Ia.
Great Western Mfg. Co., Leavenworth, Kan.
Howes, S. Co., Silver Creek, N. Y.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting Park av. & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)**
Marseilles Mfg. Co. (For Mills & Grain Elevators), East Moline, Ill.
McDonnell Boiler & Iron Wks., Des Moines, Ia.
Mey Chain Belting Engineering Works, 14 Perry, Buffalo, N. Y.
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**Moore & Lorenz Co., 2144 W Fulton, Chicago,** Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
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Skilling & Richards Mfg. Co., 46th av & Courtland, Chicago, Ill.
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Stephens-Adamson Mfg. Co., Aurora, Ill.
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**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E. North** av, Chicago, Ill. (See adv. index, end of book)
York Foundry & Engine Works, York, Neb.

## 6401—Granite Column Cutting Machines

(See also Stone Cutting Machines, Etc.)
St. Cloud Iron Works, St. Cloud, Minn.

## 6402—Granite Sawing Machines

American Sawing Machine Co. ("Chase," Patent), Worcester, Mass.

## 6403— Granulating Machines

**Colton, Arthur Co., Dtroit, Mich.**
Mulford, H. K. Co., 412 S 13th, Phila., Pa.

## 6404—Grape Stemmer & Crushing Machines

Klotz Machine Co., Sandusky, O.

## 6405— Grating Machines

Glaser, Gustave & Co. ("Glaser's" Universal, for Nuts, Vegetables, etc.), 76 Park pl, New York

## 6406—Gravity Incline Machines

Wellman-Seaver-Morgan Co., Cleveland, O.

## 6407—Green Pea Cleaning & Grading Machines

Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
**SPRAGUE CANNING MACHINERY** Co. ("Clipper," "Eureka" & "Monitor"), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 6408— Grinding Machinery

(See Grinders; also Mills, Grinding; also Paint Grinding & Mixing Machinery; also Pulverizing Machinery)

## 6409—Grinding & Polishing Machines

(See also Lathes, Buffing & Polishing; also Grinders, Various Kinds; also Polishing Machines)

Barnes, W. F. & Jno. Co. (Velocipede or Foot Power), Rockford, Ill.
Blount, J. G. Co. (Grinding, Polishing & Buffing Machines Combined), Everett, Mass.
Diamond Machine Co. (Swing Frame), Providence, R. I.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Roth Bros. & Co. (Electric), Loomis & Adams, Chicago, Ill.
Superior Corundum Wheel Co., Waltham, Mass.

## 6410—Grommet Setting Machines

Stimpson, Edwin B. Co., 31 Spruce, New York

## 6411— Grooving Machines

Chase Turbine Mfg. Co. ("Chase's" Automatic), Orange, Mass.
Savage & Love Co., Rockford, Ill.
**Valley City Machine Works (For Inlaid Work), Grand Rapids, Mich.**

## 6411a— Grubbing Machines

Caward, R. S., Cresco, Ia.
Mohland & Co., Burlington, Ia.
Smith Mfg. Co., La Crosse, Wis.

## 6412—Gun Barrel Drilling Machinery

Diamond Machine Co., Providence, R. I.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Reed, F. E. Co., Worcester, Mass.

## 6413—Gun Barrel Reaming Machines

Diamond Machine Co., Providence, R. I.
Reed, F. E. Co., Worcester, Mass.

## 6414—Gun Barrel Turning Machines

Reed, F. E. Co., Worcester, Mass.

## 6415— Gun Powder Machinery

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Scott, Olin, Bennington, Vt.
**WERNER & PFLEIDERER (Smokeless),** Saginaw, Mich. (See adv. index, end of book)

## 6416—Gutter Forming Machinery

(See also Conductor Pipe & Eave Trough Machinery)

Double Truss Cornice Brake Co., Buffalo, N. Y.
Eclipse Machine Co. ("Eclipse" Gutter Beading & Forming Machines), Troy, N. Y.
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)

## 6417— Gypsum Machinery

(See also Plaster Mill Machinery)

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Butterworth & Lowe (Inc.) (Gypsum Crushers), Grand Rapids, Mich.
**CUMMER, F. D. & SON CO., The Arcade,** Cleveland, O. (See adv. index, end of book)
**Ehrsam, J. B. & Sons Mfg. Co., Enterprise,** Kans.
McDonnell Boiler & Iron Works Co., Des Moines, Ia.
**SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)**

## 6418— Hack Saw Machines

(See also Saw Blades & Frames, Hack)

**ARCADE MFG. CO. ("Union"), Free**port, Ill. (See adv. index, end of book)
Armstrong-Blum Mfg. Co. ("Marvel"), 337 N Francisco av, Chicago, Ill.
Atkins, E. C. & Co., Indianapolis, Ind.
**Buffalo Specialty Co. ("Two in One," "Tandem," "Duplex," Hand & Power), 375 Ellicott, Buffalo, N. Y.**
Burroughs Tool Co. ("Burro"), 91 Murray, New York
**Dayton Machine Works ("Victor"), Dayton, O.**
**Diamond Saw & Stamping Works ("Sterling;" also High Speed), 357 7th, Buffalo, N. Y.**
Disston, Henry & Sons, Tacony, Phila., Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Frontier Iron Works ("Robertson," "Royal," Power Saws), Buffalo, N. Y.
**Goodell-Pratt Co. (The "G"), Greenfield, Mass.**
**Hoefer Mfg. Co. ("Hoefer," for Metal), Freeport, Ill.**


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Massachusetts Saw Works (Portable), Chicopee, Mass.
Millers Falls Co. ("Star," Power), 28 Warren, New York; Works: Millers Falls, Mass.
**North Wales Machine Co., Inc. ("North Wales" Geared Power), North Wales, Pa.**
Olmstead, L. H. ("Olmstead's," for Metal), Hasbrouck Heights, N. J.
Patterson Tool & Supply Co. ("Challenge"), Dayton, O.
**Q. M. S. Co. ("Q. & C." Power Shop), Plainfield, N. J.**
Quality Saw & Tool Works (Inc.) ("Napier" Continuous Cutting, Power), Springfield, Mass.
Racine Tool & Machine Co. **("Racine" Power),** Racine, Wis.
**RYERSON, JOSEPH T. & SON, 2558** W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Simonds File Co., Fitchburg, Mass.
Simplex Mfg. Co. ("Simplex" Combination Bench Filer & Hack Saw), 90 West, New York
**SMITH & HEMENWAY CO. ("Red** Devil," Power), 150 Chambers, New York. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. (The "Victor" Power), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Thompson, Henry G. & Son Co. ("Eureka," "Milford"), New Haven, Conn.
West Haven Mfg. Co. ("Globe," "Universal"), Springfield, O.
Western Tool & Mfg. Co. ("Champion"), Springfield, O.

## 6419—Hair Washing Machines

**Baker, G. W. Machine Co., Wilmington, Del.**

## 6420—Hand Bending Machines

Freeman, A. W., Newark, N. J.
Hinman, D. A. & Co., Sandwich, Ill.
**NIAGARA MACHINE & TOOL W'KS.** (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)

## 6421—Hand Hole Cutting Machines

**Chase Turbine Mfg. Co., Orange, Mass.**
**Fischer Machine Works (Automatic for Wood),** 1845 Carroll av, Chicago, Ill.

## 6422—Hand Shearing Machines

**New Doty Mfg. Co. (Hand Power), Janesville, Wis.**
**Niles-Bement-Pond Co., 111 B'way, New York**

## 6423—Hand Stamp Makers' Machinery

**Force, W. A. & Co. (Inc), 59 Beekman, New York**

## 6424—Handle Blank Sawing Machines

**Klotz Machine Co. (For Cutting Out Shapes or Blanks for Handles, Staves, etc.), Sandusky, O.**
**Trevor Mfg. Co. (Automatic), Lockport, N. Y.**

## 6425—Handle Chucking & Boring Machines

Loetzer Valve & Mfg. Co. ("Booth" Automatic), Monroeton, Pa.

## 6426—Handle Polishing Machines

**Klotz Machine Co. (For Spokes & Handles), Sandusky, O.**

## 6427—Handle Scroll Machines

**Klotz Machine Co. (For Wood Handles), Sandusky, O.**

## 6428—Handle Tumbling Machines

**Trevor Mfg. Co. (For Smoothing Handles), Lockport, N. Y.**

## Handle Turning Machinery

(See Lathes, Handle Turning)

## 6428a— Hardware Machinery

**BLISS, E. W. CO. (Sheet Metal), Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
**Herrick & Cowell, New Haven, Conn.**

## 6429— Harness Machinery

**Brownson, R. & Co., St. Paul, Minn.**
**Champion Shoe Machinery Co., St. Louis, Mo.**
International Harness Machinery Co., Cincinnati, O.
**Randall, J. D. Co., Cincinnati, O.**
**Boss-Moyer Mfg. Co., Cincinnati, O.**
**Smith, F. H. Mfg. Co., 321 St. John's ct., Chicago, Ill.**

## 6430—Harness Riveting Machines

Smith, F. H. Mfg. Co., 321 St. John's ct., Chicago, Ill.

## 6431—Harness Sewing Machines

(See also Sewing Machines, Harness; for page number consult Index of Contents)
Bauer Machine Co. ("Bauer" Lock Stitch, Wax Thread), Jeffersonville, Ind.
Campbell-Boswell Machinery Co. ("Campbell" Lock Stitch Wax Thread), 205 Lincoln, Boston, Mass.
Champion Shoe Machinery Co., St. Louis, Mo.
International Harness Machinery Co. (Wax Thread), Cincinnati, O.
Landis Machine Co. (Wax Thread), St. Louis, Mo.
O'Flaherty, Jno. Co. (Big Shuttle Lock Stitch, Wax Thread), Rouses Point, N. Y.
Puritan Mfg. Co. ("Puritan"), 22 Lincoln, Boston, Mass.
**Randall, J. D. Co., Cincinnati, O.**

## Harvesting Machinery

(See Harvesters, Various Kinds)

## 6432— Hat Cleaning Machines

Slotkin, Mayer Mfg. Co., 210 Canal, New York

## 6433— Hatters' Machinery

Almond, David, Newark, N. J.
**BEACH-RUSS CO. (Pressure Blowers** & Gas Irons), 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
Doran Bros., Danbury, Conn.
Dubrow & Hearne Mfg. Co., 12 Wooster, New York
Heim Machine Co., Danbury, Conn.
Morelock, Wm., Danbury, Conn.
Muller, Fred., 214 Lackawanna, Newark, N. J.
New Machine Co., Danbury, Conn.
Newark Hat Block & Machine Co., Newark.
Reed, Chas., Danbury, Conn. N. J
Turner Machine Co. (Also Hatters' Supplies), Danbury, Conn.
Yule & Carley Mfg. Co., Newark, N. J.

## 6433a—Hay Unloading Machinery

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 6434—Heading, Upsetting & Forging Machines (Combined)

Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.

## 6435— Heating Machines

**(See also Furnaces, Annealing & Case Hardening)**
**AMERICAN GAS FURNACE CO. (For Hardening, Annealing, etc.), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)**
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 6436—Hide Stamping Machines

Loegemann Bros. Co. ("Loegemann" Portable), Milwaukee, Wis.

## 6437—Hide & Leather Working Machinery

Baker, G. W. Machine Co., Wilmington, Del.
Boyle, John Machine Co. (Shaving Machine), Peabody, Mass.
Corwin Mfg. Co., Peabody, Mass.
Evans' John Sons, 13th & Buttonwood, Phila., Pa.
Hemingway Machine Co., Lynn, Mass.
Hide & Leather Wrkg. Machine Co. (Tanning & Currying Machines, Parts, Tools, etc.), Milwaukee, Wis.
Holmes, Chas. Leather Working Machine Co., 299 Marginal, E. B., Boston, Mass.
Hutchinson Hide & Leather Machine Co., Winchester, Mass.
Layman, A. C. Machine Co., Wilmington, Del.
Loy & Mawrath, 25 Runyon, Newark, N. J.
McLeod, Jno. H. (Leather Finishing Pebble Rolls), 17 Treat pl, Newark, N. J.
Martin, Wm. F. (Tan Presses, Finishing Machines, etc.), Salem, Mass.
Munkwitz, Edw. H. Co., Milwaukee, Wis.
Newark Leather Machinery Co., Newark, N. J.
Peabody Leather Machinery Co., Peabody, Mass.
Slocomb, F. F. & Co. (Stalking & Glazing Machines, etc.), Wilmington, Del.
Turner Tanning Machinery Co., Peabody, Mass.
Union Leather Measuring Machine Co. (Leather Measuring Machines), Danversport, Mass.

## 6438—Hinge Mortising Machines

**Mechanics Machine Co (For Furniture Factories), Rockford, Ill.**

## 6439—Hinge & Butt Machinery

Baird Machine Co., Oakville, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
Ferracute Machine Co., Bridgeton, N. J.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## Hod Hoisting Machines

(See Elevators, Hod)

## 6440— Hoe Rolling Machines

Birmingham Iron Foundry, Derby, Conn.

## 6441— Hoisting Machinery

(See Cranes; also Derricks; also Engines, Hoisting; also Hoists of Various Kinds)

## 6442—Hoisting Machinery (Pneumatic & Electric)

**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)

HOISTING MACHINERY
Pneumatic & Electric
DETROIT HOIST & MACHINE CO
DETROIT, MICH.

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)**

## Hollow Building Block Machinery

(See Clay Building Block Machinery; also Concrete Building Block Machinery)

## 6443—Hollow Chisel Mortising Machines

Fay, J. A. & Egan Co. (Vertical), Cincinnati, Ohio

## 6444— Hominy Machinery

**SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)**

## 6445—Hook Bending Machines

**AMERICAN CAN CO. (Machinery Dep't), (Single & Double Rail Hook; Former for Lard Pails, Paint Buckets, etc.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)**

## 6446— Hook & Eye Machinery

Baird Machine Co., Oakville, Conn.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Watbury, Conn.
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
Special Machinery Co. (Automatic), Bridgeport, Conn.

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### 6447—Hook & Eyelet Setting Machines

**Smith, F. N. Mfg. Co. ("Universal" Hand & Foot Power), 321 St. John's ct, Chicago, Ill.**

### 6448—Hoop Flaring, Punching & Shearing Machines

Glader, Wm. Machine Works ("Glader's" for Heavy Work), 210 N Ann, Chicago, Ill.

### 6449— Hoop Machinery

(See also Barrel Machinery)

Defiance Machine Works, Defiance, O.
Merritt Mfg. Co. ("Trautman," Saws, Planes, Paints & Laps), Lockport, N. Y.
Stevens Machine Co. (Shavers, etc.), Winooski, Vt.

### 6450— Hoop Nailing Machines

Gramme's, L. F. & Sons, Allentown, Pa.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.

### 6451—Hoop Punching Machines

Glader, Wm. Machine Works ("Glader's" Automatic), 210 N Ann, Chicago, Ill.

### 6452—Hoop Riveting Machines

Glader, Wm. Machine Works, 210 N Ann, Chicago, Ill.

### 6453—Hoop Stapling Machines

Holmes, E. & B. Machinery Co., Buffalo, N. Y.

### 6454—Horn Working Machinery

Cook, F. H. & Co., Leominster, Mass.

### 6455—Horse Clipping Machines

(See also Clippers, Horse; also Sheep Shearing Machines)

American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart" Ball Bearing), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**COATES CLIPPER MFG. CO.** ("Coates" Flexible Shaft, Electric, etc.), Worcester, Mass. (See adv. index, end of book)
Gillette Clipping Machine Co., 114 W 32d, New York
Stow Flexible Shaft Co., Binghamton, N. Y.

### 6456—Horse Collar Machinery

(See also Harness Machinery)

Brownson, R. & Co., St. Paul, Minn.
Foglesong Machine Co., Dayton, O.
**GLOBE MACHINE & STAMPING CO.**, 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Randall, J. D. Co., Cincinnati, O.

### 6457—Horse Grooming Machines

**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart," Reversible), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6457a— Horseshoe Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**

### 6458—Hose Machines (Rubber Mill)

Adamson Machine Co., Akron, O.
Birmingham Iron Foundry, Derby, Conn.
Farrel Fdry & Machinery Co., Ansonia, Conn.
New England Butt Co., Providence, R. I.

### 6459—Hot Forge Nut Machines

National Machinery Co., Tiffin, O.

### 6460—Hot Rolled Stock Straightening & Cutting Machinery (Automatic)

**SHUSTER, F. B. CO., New Haven, Conn.** (See adv. index, end of book)

### 6461— Hot Sawing Machines

(See also Cold Saw Cutting-Off Machines)

**Ajax Mfg. Co., 3830 Lakeside av, N. E., Cleveland, O.**
Billings & Spencer Co., Hartford, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Espen-Lucas Machine Works (High Speed, etc., for Foundry, Forge, etc.), 342 N 15th, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Mesta Machine Co., Pittsburg, Pa.
**Philadelphia Roll & Machine Co. (For Hot Metal), S 22d & Washington av, Phila., Pa.**
United Engineering & Foundry Co. (Sliding, Swinging & Stationary Saw for Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.

### 6462— Hub Boring Machines

Abbott & Co. ("Little Giant"), Hudson, Mich.
Bentel & Margedant Co., Hamilton, O.
Brecht, Gus V., St. Louis, Mo.
Defiance Machine Works, Defiance, O.
Kane & Roach, Syracuse, N. Y.
Silver Mfg. Co. ("Dole" & "Silver"), Salem, O.
Smith, Philip Co., Sidney, O.
Vulcan Iron Works, Mason City, Ia.

### 6463— Hub Boxing Machines

Bentel & Margedant Co., Hamilton, O.
Silver Mfg. Co. ("Dole" & "Silver"), Salem, O.

### 6464—Hub, Spoke & Rim Machinery

Abbott & Co. (Hub Borers), Hudson, Mich.
Bentel & Margedant Co., Hamilton, O.
Cordesman, Rechtin Co. (Boring), Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Kane & Roach (Boring), Syracuse, N. Y.
Ober Mfg. Co. (Spoke), Chagrin Falls, O.
Silver Mfg. Co. (Tenon Machines), Salem, O.
Smith, H. B. Machine Co., Smithville, N. J.
Smith, Philip Co., Sidney, O.
Stearns, E. C. & Co., Syracuse, N. Y.

### Hydrating Machines

(See Lime Hydrating Machinery)

### 6465— Hydraulic Machinery

(See Accumulators, Hydraulic; Cranes, Hydraulic; Dredging Machinery, Hydraulic; Gauges, Hydraulic; Hydraulic Rams; Jacks Hydraulic; Lifts, Hydraulic; Presses, Hydraulic, Various Kinds; Pumps, Hydraulic; Punches, Hydraulic; Riveting Machines, Hydraulic; Etc.)


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38 Church Street,

NEW YORK.


### 6466— Ice Chipping Machines

Schmidt Bros. Co., Davenport, Ia.

### 6468— Ice Cream Machines

(See also Freezers, Ice Cream)

Allman Gas Engine & Machine Co. ("Champion;" also Ice Cream Machine & Ice Breaker Combined), 461 Canal, New York

### 6467—Ice Cream Biscuit Machines

Union Machine Works & Iron Foundry, 1825 S Water, Phila., Pa.

### 6468a— Ice Crushing Machines

**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

### 6469—Ice Cube Cutting Machines

Blakeslee, G. S. & Co. ("Blakeslee"), 325 Dearborn, Chicago, Ill.
Reinhold Mfg. Co. ("Jumbo"), Detroit, Mich.

### 6470— Ice Handling Machinery

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Klotz Machine Co., Sandusky, O.
**LINK BELT COMPANY, Hunting** Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
**PITTSBURG CONVEYING MACHINery Co., Pittsburg, Pa. (See adv. index, end of book)**
Schultz, A. L. & Son (For Ice Harvesting), 1675 Elston av, Chicago, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

### 6471—Ice Machines (Portable)

Barber, A. H. Creamery Supply Co., 229 S Water, Chicago, Ill.
Brunswick Refrigerating Co., New Brunswick, N. J.
Murray Iron Works Co., Burlington, Ia.
United Iron Works Co., Springfield, Mo.
York Ice Machine Co., York, Pa.

### 6472— Ice Pick Machines

Niagara Handle & Ferrule Co., Baltimore, Md.

### 6473—Ice Recording Machines

Stevenson Co. (Ltd.), Chester, Pa.

### 6474—Ice & Refrigerating Machines

Alamo Iron Works (Inc.), San Antonio, Tex.
Althoff Mfg. Co., Denver, Col.
American Brake Shoe & Foundry Co., Mahwah, N. J., & Chicago, Ill.
American Linde Refrigeration Co., 346 B'way, New York
**AMERICAN MACHINE CO., Louisville, Ky.** (See adv. index & branch offices, end of book)
Armstrong Machinery Co. (Inc.), Spokane, Wash.
Arctic Ice Machine Co., Canton, O.
Atlanta Machine Works, Atlanta, Ga.
Automatic Refrigerator Co., Hartford, Conn.
Barker, A. H. Creamery Supply Co., 229 S Water, Chicago, Ill.
Baker Ice Machine Co. (2 to 50 ton), Omaha, Neb.
Bell, Wildman & Co., Portland, Ore.
Boland Machinery Co. ("20th Century"), 326 S Clinton, Chicago, Ill.
Bouchard, Jno. & Sons Co., Nashville, Tenn.
Brunswick Refrigerating Co., New Brunswick, N. J.
Buckeye Engine & Foundry Co., Joliet, Ill.
Buffalo Refrigerating Machine Co., 126 Liberty, New York; Works: Harrison, N. J.
Carbondale Machine Co. ("The Hendrick"), Carbondale, Pa.
Carolina Ice Machine Co., Charlotte, N. C.
Castle Refrigerating Machine Co., Indianapolis, Ind.

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Cleveland Ice Machine Co., Cleveland, O.
Columbus Iron Works Co., Columbus, Ga.
Creamery Package Mfg. Co. ("Barber"), 61 W Kefizie, Chicago, Ill.
De La Vergne Machine Co. ft E 138th, New York
Dayton Ice Machine Co. (Automatic), Dayton, Ohio
Frick Co., Waynesboro, Pa.
Goldens' Foundry & Machine Co., Columbus, O.
Great Lakes Engineering Works, Detroit, Mich.
Harris Ice Machine Works, Portland, Ore.
Huetteman & Cramer Co., Detroit. Mich.
Ice & Cold Machine Co., St. Louis, Mo.
Jarvis Engineering Co., 61 Oliver, Boston, Mass.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones Refrigerating Machine Co., Chicago, Ill.
Kroeschel Bros. Ice Machine Co., 472 W Erie, Chicago, Ill.
Larsen Ice Machine Co. (Inc.), 173 N Jefferson, Chicago, Ill.
Macdonald Engineering Co., 98 Jackson boul, Chicago, Ill.
Maynard, J. F. (For Brewers, Packers, Confectioners & Dairies), 122 Geyer av, St. Louis, Mo.
Meese & Gottfried Co. ("Linde" System), 167 Fremont, San Francisco, Cal.
Murray Iron Works Co., Burlington, Ia.
Newburgh Ice Machine & Engine Co., Newburgh, N. Y.
Niebling, F. W. Co., Norwood, Cincinnati, O.
Otto, Geo. F., 209 Buttonwood, Phila., Pa.
Peerless Ice Machine Co., Cleveland, O.
Pennsylvania Engineering Co. (Engineers & Contractors), 1119 N Howard, Phila., Pa.
Rebsamen & Almeroth, 2324 Elston av, Chicago. Ill.
Remington Machine Co., Wilmington, Del.
Roelker, H. B. ("Allen" Dense Air), 41 Maiden la, New York
Ruemmeli-Dawley Mfg. Co., St. Louis, Mo.
Spangler Mfg. Co. (Small), York, Pa.
Steel. E. & Condict (Inc.), Jersey City, N. J.
Tait-Nordmeyer Eng. Co. (Complete Plants, Including Buildings), St. Louis, Mo.
Triumph Ice Machine Co., Cincinnati, O.
United Iron Works, Oakland, Cal.
United Iron Works Co. (¼ to 50 Tons per Day), Springfield, Mo.
United Machine Co. (For Families, Butchers, Restaurants, Vessels, etc.), Angola, Ind.
United Refrigerator & Ice Machine Co., Kenoska, Wis.
Van Zandt-Moore Iron Works, Fort Worth, Tex.
**VILTER MFG. CO., 1046 Clinton.** Milwaukee, Wis. (See adv. index, end of book)
Vogt, Henry Machine Co., Louisville, Ky.
Vulcan Iron Works. San Francisco, Cal.
Wegner Machine Co., Buffalo, N. Y.
Wolf, Fred W. Co. ("Linde"), 827 Rees, Chicago, Ill.
York Ice Machine Mfg. Co., York, Pa.
Zero Refrigerating Machine Co., 200 B'way, New York

### 6475—Incandescent Lamp Making Machinery

Dwyer Machine Co., Lynn, Mass.
York Electric Machine Co., York, Pa.

### 6476— Incline Machinery

Stine, S. B., Osceola Mills, Pa.

### 6477— Index Machine

**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)

### Ink Grinding Machines

(See Mills, Ink Grinding)

### 6478— Inlaying Machines

**Kelley Electric Machine Co. ("Kelley" Portable), Buffalo, N. Y.**

### 6479—Insulator Pin, Bracket & Cross Arm Machinery

Chattanooga Machinery Co., Chattanooga, Tenn.
Defiance Machine Works, Defiance, O.

### Ironing Machines

(See Laundry Machinery)

### Irrigating Machinery

(See Pumps, Irrigating)

### Jar Ring Machines

(See Lathes, Jar Ring)

### 6480— Jewelers' Machinery

Buffalo Machine Mfg. Co., Buffalo, N. Y.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Leiman Bros., 62 John, New York
Moseley Lathe Co., Elgin, Ill.
Ruesch, H. J. Machine Co., Newark, N. J.
Standard Machinery Co., Providence, R. I.

### 6481—Jewelers' & Opticians' Machines & Tools

**Bausch & Lomb Optical Co., Rochester, N. Y.**
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Langelier Mfg. Co., Providence, R. I.

### 6482—Jogging Machines for Shipyards

**MORGAN ENGINEERING CO. (Electric, with Hand Crane), Alliance, O.** (See adv. index & branch offices, end of book)

### 6483—Joint Wiping Machines

United Brass Mfg. Co., Cleveland, O.

### 6484— Jointing Machines

Berlin Machine Works, Beloit, Wis.
Myers Machine Co. (Wood), Sheboygan, Wis.
Silver Mfg. Co. (Power), Salem, O.

### 6485—Jolly Machines for Stoneware, Etc.

Williams Foundry & Machine Co., Akron, O.

### 6486—Keel Plate Bending Machines (Hydraulic)

**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)

### Keg Machinery

(See Barrel, Keg, Stave & Heading Machinery)

### 6487— Key Filing Machines

Hess Machine Works, 2512 Callowhill, Phila., Pa.

### 6488—Keyseat Broaching Machines

Lapointe Machine Tool Co., Hudson, Mass.

### 6489— Key-Seating Machines

Baker Bros. ("Colburn"), Toledo, O.
Burr, John T. & Sons, 429 Kent av, Brooklyn, N. Y.
Chattanooga Machinery Co. (The "Catlin"), Chattanooga, Tenn.
Chicago Machine Tool Co. (Duplex Feather), 127 N Canal, Chicago, Ill.
Crompton & Knowles Loom Works, Worcester, Mass.
Davis, W. P. Machine Co., Rochester, N. Y.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Mercury Machine Co. ("Lake," Portable), 2117 N Broad, Phila., Pa.
Mitts & Merrill ("Giant"), Saginaw, Mich.
Morton Mfg. Co. (Stationary & Portable Key Way Cutters), Muskegon, Mich.
National Machine Tool Co., Cincinnati, O.
Niles-Bement-Pond Co., 111 B'way, New York
Novelty Iron Works (G. E. Davis, Prop.) (Hub), Dubuque, Ia.
Pawtucket Mfg. Co. ("Knowles"), Pawtucket, R. I.
**RYERSON, JOS. T. & SON (Portable** Automatic), 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6490—Kindling Wood Machinery

(See also Wood Sawing & Splitting Machinery)
American Sawmill Machinery Co., Hackettstown, N. J.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Badger Gas & Gasoline Engine Co. (Portable, Gasoline, Cord Wood, Sawing Machine), Kansas City, Mo.
Dederick's, P. K. Sons, Albany, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Greene Mfg. Co., 296 Oakland, Brooklyn, N. Y.
Hildreth Bros., Harvard, Mass.
Spangler Mfg. Co., York, Pa.
Stauffer, Geo. E., East Stroudsburg, Pa.

### 6491—Kneading & Mixing Machines

Day, Jas. H. Co. ("Giant"), Cincinnati, O.
Lynn-Superior Co. ("Lynn-Superior"), Cincinnati, O.
Prims Machinery Co. (Mixing & Kneading Cereal Coffee), Battle Creek, Mich.
Ross, Chas. & Son Co. (For Putty, Dough & Rubber, etc.). 148 Classon av, Brooklyn, N. Y.
Stuart & Peterson Co., Burlington, N. J.
**WERNER & PFLEIDERER ("Universal," for Food, Chemicals, etc.),** Saginaw, Mich. (See adv., index, end of book)

### 6492—Knife Balancing Machinery

Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.

### 6493—Knife Polishing & Buffing Machines

Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Luther Bros. Co. ("Rapid" Hand Power), Milwaukee, Wis.

### Knitting Machinery

(See Textile Machinery; for page number consult Index of Contents)

### Kraut Cutting Machines

(See Cutters, Kraut)

### 6494— Kraut Machines

(See also Cutters, Kraut)
**SPRAGUE CANNING MACHINERY Co.,** 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6495—Label Pasting Machines

General Utilities Co. ("Universal"), 136 Liberty, New York

### 6496—Label Varnishing Machines

Chambers Bros Co., 52d below Lancaster av, Phila., Pa.

### 6497— Labeling Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Bottlers' Machinery & Mfg. Co., 420 Wells, Chicago, Ill.
Burt Machine Co. (Can, etc.), Baltimore, Md.
Economic Mchy. Co. ("Star" & "World"), Worcester, Mass.
Ermold, Edw. ("Ermold," Bottle), 656 Hudson, New York
Girard Machine Works (Inc.), 2616 Girard av, Philadelphia, Pa.
Knapp, Fred H. & Co., Westminster, Md.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Leffler, Chas. & Co. ("Brooklyn" Bottle, Can & Package), 63 Clymer, Brooklyn, N. Y.
Morral Bros. ("Morral" Can, etc.), Morral, O.
Robins, A. K. Co. ("Hammond Can"), Baltimore, Md.
Royal Machine Co., Newark, N. J.
**SPRAGUE CANNING MACHINERY Co.** ("Knapp" Tin Can), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Weiscopf, L. (For Bottle or Cans), 20 Vesey, New York

### 6498— Laboratory Machinery

Colton, Arthur Co., Detroit, Mich.
Day, J. H. Co., Cincinnati, O.

### 6499— Lacquering Machines

Ohl, Geo. A. & Co. (For Tin, Metal & Cardboard, etc.), 157 Oration, Newark, N. J.
Seeley Bros. ("Hughlett"), Blaine, Wash.

### 6500—Lag Screw Threading Machines

Cook, Asa S. Co., Hartford, Conn.

### 6501—Lamp Burner Shaft Machinery

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

### 6502 Lapping Machines

(See also Textile Machinery)
Blake & Johnson, Waterbury, Conn.
Builders' Iron Foundry, Providence, R. I.
Diamond Machine Co., Providence, R. I.

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LeBlond, R. K. Machine Tool Co., 4609 Eastern av, Cincinnati, O.
Mitts & Merrill (For Band Saws), Saginaw, Mich.
Niles-Bement-Pond Co., 111 B'way, New York
Northampton Emery Wheel Co., Leeds, Mass.
Rhode Island Braiding Machine Co., Providence, R. I.

### 6502a—Lard & Butter Pail Machinery (Sheet Metal)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6503— Last Machinery

Kimball Bros. & Sprague, Brockton, Mass.

### 6504— Lath Mill Machinery

Abbott, D. S. Co., Olean, N. Y.
American Saw Mill Machinery Co., Hackettstown, N. J.
American Wood Working Mach'y Co., Rochester,
Bartlett, A. F. & Co., Saginaw, Mich. N. Y.
Bolton Lath & Shingle Machinery Co., Minneapolis, Minn.
Butterworth & Lowe (Inc.) (Sheathing, Lath, etc.), Grand Rapids, Mich.
Chapman's, T. M. Sons Co. (Gang Machines), Old Town, Me.
Chase Turbine Mfg. Co., Orange, Mass.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works, Minneapolis, Minn.
Garland, M. Co., Bay City, Mich.
Lane Mfg. Co., Montpelier, Vt.
Mitts & Merrill, Saginaw, Mich.
Rodgers Iron Mfg. Co., Muskegon, Mich.
Smith, Myers & Schnier Co., Cincinnati, O.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Stearns Co., Erie, Pa.
Union Iron Works, Bangor, Me.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

### 6505— Laundry Machinery

(See also Laundry Dryers, Tubs, Etc.)

Adams Laundry Machinery Co. ("Sharps" Washers, etc.), Troy, N. Y.
American Bell & Foundry Co. ("Gem" C. & C. Ironers, etc.), Northville, Mich.
American Ironing Machine Co. ("Simplex" Ironer), 28 E Lake, Chicago, Ill.
**American Laundry Machinery Mfg. Co. (Mangles, Cylinder Washes, etc.), 80 Franklin, Chicago, Ill.**
Ashler Mangle Co., Willimantic, Conn.
Atlas Laundry Machinery Co. ("C. & C." Ironers, "Hercules" Mangles, etc.), Cincinnati, O.
**BEACH-RUSS CO. (Pressure Blowers, Gas Irons),** 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
**Bishop, Geo. H. ("C. & C." Starchers & Specialties), 550 W Washington, Chicago, Ill.**
Boland Machine & Mfg. Co., New Orleans, La.
**Chicago Addition Mangle Co., 557 W Monroe,** Chicago, Ill.
Chicago Dryer Co. (Clothes Dryers, Steam, Hot Water & Gas), 381 Wabash av, Chicago, Ill.
Chicago Laundry Machinery Co. ("Floran" Seam Dampeners, Fold Collar Shaper & Edger, **"C. & C." Edgers), 119 Canal, Chicago, Ill.**
Cleveland Laundry Mach'y Co., Cleveland, O.
Columbia Mfg. Co. ("Hurry" Dryers, "F" & "C. & C." Ironers, etc.), Columbia, Pa.
Conkling Co. (Motor Driven Washers), 96th & Erie av, Chicago, Ill.
Detroit Laundry Machinery & Supply Co., Detroit, Mich.
Empire Laundry Machinery Co., Boston, Mass.
**Heim Machinery Co., Danbury, Conn.**
Hendy, Joshua Machine Works, San Francisco, Cal.
**Hoyt Mfg. Co. ("C. & C. & S." Ironers), 116 1st av. N. Minneapolis, Minn.**
**Huebsch Mfg. Co., Milwaukee, Wis.**
Lovewell-Henrici Co. ("The Henrici" Extractors, Dampening Presses, etc.), Chelsea, Mass.
Lutes, W. H. Co., 4845 Evanston av, Chicago, Ill.
**Mateer, F. W. & Co. (Extractors, C. & C. Ironers, Cylinder Washers, etc.), 637 N Franklin, Chicago, Ill.**
**Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.**
**National Laundry Machinery Co., Dayton, O.**
**Oakley & Keating, 673 Manhattan av, Brooklyn, N. Y.**
Paragon Mfg. Co., 3609 Ashland av, Chicago.
Phillips, Wm. & Co., Northville, Mich. Ill.
Poland Laundry Machinery Co., Boston, Mass.
Porter & Erwin, Cedar Rapids, Iowa
Prankard, C. J. & Sons, Troy, N. Y.
Reed Mfg. Co. (Collar Shapers), Erie, Pa.
Stebbins Mfg. Co., Denver, Colo.
Steel Roll Machine Co., 254 E Madison, Chicago, Ill.
Stone, C. F. Co., 210 S Sangamon, Chicago, Ill.
Tolhurst Machine Works, Troy, N. Y.
Triumph Laundry Machine Co., Hamilton, O.
**Troy Laundry Machinery Co. (Ltd.), 23d & Lasalle, Chicago, Ill.**
U. S. Laundry Machinery & Supply Co., Cincinnati, O.
Western Laundry Machinery Co., San Francisco, Cal.
Willey Co., Betz bldg, Phila., Pa.
Windsor Locks Machine Co., Windsor Locks, Conn.

### 6506— Lavatory Machinery

**BEACH-RUSS CO. (Vacuum Pumps),** 55 Green, Brooklyn, N. Y. (See adv. index, end of book)

### 6507—Lead Pipe & Trap Machinery

Farrel Foundry & Machine Co., Ansonia, Conn.
Robertson, Jno. & Co. (Also for Sheet Lead, etc.), 129 Water, Brooklyn, N. Y.

### 6508— Leather Board Machines

Noble & Wood Machine Co., Hoosick Falls, N. Y.

### 6509—Leather Brushing Machines

**Baker, G. W. Machine Co. (For Harness, Shoe, Russia & Sheep Leather), Wilmington, Del.**

### 6510—Leather Calculating Machines

**Baker, G. W. Machine Co., Wilmington, Del.**

### 6511—Leather Creasing Machines

**Osborne, C. S. & Co., Harrison, N. J.**
Randall, J. D. Co., Cincinnati, O.
Stimpson, Edwin B. Co., 31 Spruce, New York

### 6512—Leather Cutting Machines

Ohl, Geo. A. & Co. (Also for Fibre), 157 Oraton, Newark, N. J.

### 6513—Leather Embossing Machines

Grammes, L. F. & Sons, Allentown, Pa.
Osborne, C. S. & Co. (Harness Makers, etc.), Harrison, N. J.
Randall, J. D. Co., Cincinnati, O.

### 6514—Leather Finishing Machines

Martin, Wm. F., Salem, Mass.

### 6515—Leather Fleshing & Slating Machines

**Baker, G. W. Machine Co. ("New National"), Wilmington, Del.**

### 6516—Leather Glazing Machines

**Baker, G. W. Machine Co., Wilmington, Del.**

### 6517—Leather Measuring Machines

**Baker, G. W. Machine Co. ("Sawyer's"), Wilmington, Del.**

### 6518—Leather Punching Machines

Ohl, Geo. A. & Co. (Also for Fibre), 157 Oraton, Newark, N. J.
Randall, J. D. Co., Cincinnati, O.

### 6519—Leather Rolling & Stoning Machines

**Baker, G. W. Machine Co., Wilmington, Del.**

### 6520—Leather Setting & Stoning-Out Machines

**Baker, G. W. Machine Co. (Reversible Drum), Wilmington, Del.**

### 6521—Leather Shaving Machines

**Baker, G. W. Machine Co., Wilmington, Del.**

### 6522—Leather Skiving Machines

Fortuna Machine Co., 127 Duane, New York

### 6523—Leather Slitting & Finishing Machines

Randall, J. D. Co. (Power, Round Edge), Cincinnati, O.

### 6524—Leather Splitting Machines

American Tool & Machine Co. (Belt Knife), 100 Beach, Boston, Mass.
**Baker, G. W. Machine Co. ("Western Union"), Wilmington, Del.**
Simpson, Edwin B. Co., 31 Spruce, New York
**Stehling, Chas. H. Co., Milwaukee, Wis.**

### 6525—Leather Staking Machines

**Baker, G. W. Machine Co. ("Baker" & "Wilmington" Roller), Wilmington, Del.**

### 6526—Leather Stamping Machines

**Baker, G. W. Machine Co. (For Hides, Skins & Leather), Wilmington, Del.**

### 6527—Leather Whitening Matches

**Baker, G. W. Machine Co. (For Splits & Harness Leather, etc.), Wilmington, Del.**

### Leather Working Machinery

(See Hide & Leather Working Machinery)

### 6528—Letter Folding Machines

Dick, A. B. Co. (Automatic), 736 W Jackson blvd, Chicago, Ill.

### 6529—Leveling Machines for Sheets

Poole, J. Morton Co., Wilmington, Del.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

### 6530—Life Saving Machinery (Marine Breeches Buoy)

**LIDGERWOOD MFG. CO., 96 Liberty, New York & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**

### 6531—Lime Hydrating Machinery

American Hydrating Co. ("Hydrator"), Md. Trust bldg, Baltimore, Md.
Kritzer Co. ("Kritzer" Continuous), 115 Adams, Chicago, Ill.
National Brick Machinery Co., 138 Wash'n, Chicago, Ill.

### 6532—Lime Slacking & Mixing Machines

Deming Apparatus Co. (Lime Slacking Tanks & Pumps), 93 Wall, New York
Teal, Chas. A., 1361 Ridge av, Phila., Pa.

### 6533—Linoleum & Floor Cloth Machinery

Dienelt & Eisenhardt (Printing), 1308 N. Howard, Phila., Pa.
Farrel Foundry & Machine Co., Ansonia, Conn.
Moore & White Co. (Printing), 15th & Lehigh av, Phila., Pa.

### 6534—Linseed Oil Machinery

(See also Cotton Seed Oil Machinery)

**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book)
French Oil Mill Machinery Co., Piqua, O.

### 6535—Liquid Filling Machines

**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6536— Locating Machines

Beacon Tool Works (For Locating Centers on Dies, Jigs, etc.), Naugatuck, Conn.

### 6537—Lock Corner Box Machinery

Bentel & Margedant Co. (Single & Double End), Hamilton, O.
Chase Turbine Mfg. Co. (Automatic Box Presses), Orange, Mass.
Connell & Dengler Machine Co. (Box Trimmers, Box Pressing, etc.), Rochester, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Grammes, L. F. & Sons, Allentown, Pa.
Jordan Machine Co. (Inc.), Phila., Pa.
Morgan Machine Co., Rochester, N. Y.
Nicholls Mfg. Co., Ottumwa, Ia.

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6538—Lock Mortising Machines

**CORBIN CABINET LOCK CO. (Mortising for Locks & Keyhole Boring), New Britain, Conn.**

**Miller, A. W. Mfg. Co. ("Miller" Hand), 5th & Sycamore, Cincinnati, O.**

Perfection Mfg. Co. ("Perfection"), Columbus, Ohio

**Valley City Machine Works (Oscillating), Grand Rapids, Mich.**

Log Hauling Machines

(See Log Hauls)

6538a—Log Skidding & Loading Machines

Log Skidding & Loading Machines
MANUFACTURED BY
CLYDE IRON WORKS
DULUTH, MINN.

**CLYDE IRON WORKS ("Clyde," "McGiffert," Self-Propelling, etc.), Duluth, Minn. (See adv. index & branch offices, end of book)**

6539— Logging Machinery

Logging Machinery
MANUFACTURED BY
CLYDE IRON WORKS
DULUTH, MINN.

**CLYDE IRON WORKS, Duluth, Minn. (See adv. index & branch offices, end of book)**

**LIDGERWOOD MFG. CO. (Steam), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)**

**RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)**

6541— Macaroni Machinery

Cavagnaro, Jno. J., 255 Centre, New York

City Machine Co., Cleveland, O.

Fisher & Davis Mfg. Co., St. Louis, Mo.

**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book)

6543—Manifold Shipping Machines

Egry Autographic Register Co., Dayton, O.

6544— Mantle Machines

**Advance Machine Co. (Shaping, Hardening & Dipping Machines, Cotton Burners, etc.), Chicago, Ill.**

**Machine Mantle Sewing Co. (For Sewing Incandescent Mantle), 209 Centre, New York**

6544a—Marble Coping Machines

**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford. Ind. (See adv. index, end of book)

6545—Marble Hole Cutting Machines

**Holub-Dusha Co. (Oval Hole Cutting), 1799 1st av, New York**

**Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.**

6546—Marble Molding & Countersinking Machines

**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford. Ind. (See adv. index, end of book)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

Marble Polishing Machines

(See Stone Polishing Machines)

Marble Working Machinery

(See Stone Working Machinery, Etc.)

6547—Marking Machines for Metal

Slate, Dwight Machine Co., Hartford, Conn.

6548— Mashing Machines

**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)

6549— Match Box Machinery

Birch & Birch (All Sizes), Crawfordsville, Ind.

Dietz Machine Works, 126 Fontain, Phila., Pa.

Grammes, L. F. & Son, Allentown, Pa.

Kent Machine Co., Toledo, O.

Woodbridge Machine Works, Detroit, Mich.

6550— Match Machinery

Diamond Match Co., 111 B'way, New York

Dietz Machine Works, 126 Fontain, Phila., Pa.

Herrick & Cowell, New Haven, Conn.

Reinhold Machine Co., Detroit, Mich.

Woodbridge Machine Works, 127 Brush, Detroit, Mich.

6551—Matting Weaving Machines

Crompton & Knowles Loom Works (For Japanese Matting), Worcester, Mass.

Mattress Machinery

(See Woven Wire Mattress Machinery)

6551a—Meat Can Machinery (Sheet Metal)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

6552—Meat Can Stuffing Machines

**AMERICAN CAN CO. (Machinery Dep't), (Rotary), 135 Adams, Chicago, Ill.** (See adv. index & branch offices, end of book)

Metal Beading Machines

(See Crimping & Beading Machines)

6553— Metal Boring Machines

(See also Mills, Boring & Turning; also Boring & Drilling Machines, Horizontal)

American Tool Works Co., Cincinnati, O.

Baker Bros., Toledo, O.

**Barrett Machine Tool Co. ("Barrett" Cylinder), Meadville, Pa.**

Baush Machine Tool Co., Springfield, Mass.

Beaman & Smith Co., Providence, R. I.

**BIRDSBORO STEEL FOUNDRY & Machine Co.** ("Wagner," Cold Sawing), Birdsboro, Pa. (See adv. index, end of book)

Fitchburg Machine Works, Fitchburg, Mass.

Gardam, Wm. & Son (Inc.), 80 Park pl, New York

Garvin Machine Co., 137 Varick, New York

Harrington, E. Son & Co. (Inc.), 17th & Callowhill, Phila., Pa.

Heartley Machine Variety Iron & Tool Wks., Toledo, O.

Henley, M. C., Richmond, Ind.

Herron-Webb Engineering Co. ("Black Diamond" for Armature Bearings), Monongahela, Pa.

Lucas Machine Tool Co., Cleveland, O.

Mitts & Merrill, Saginaw, Mich.

New Haven Mfg. Co., New Haven, Conn.

Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.

Niles-Bement-Pond Co., 111 B'way, New York.

Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co., Worcester, Mass.

**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York.** (See adv. index & branch offices, end of book)

Putnam Machine Co., Fitchburg, Mass.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,

Warner & Swasey Co., Cleveland, O. Phila., Pa.

Metal Boring Machines (Horizontal)

(See Boring & Drilling Machines, Horizontal)

6554—Metal Boring Machines (Vertical)

American Tool Works Co., Cincinnati, O.

Bickford, H., Lakeport, N. H.

Bullard Machine Tool Co., Bridgeport, Conn.

Niles-Bement-Pond Co., 111 B'way, New York

Prentice Bros. Co., Worcester, Mass.

6555—Metal Culvert Machinery

**NIAGARA MACHINE & TOOL WORKS,** Buffalo, N. Y. (See adv. index, end of book)

6556—Metal Cutting-Off Machines

(See also Cold Saw Cutting-Off Machines; also Hot Sawing Machines)

Brown & Sharpe Mfg. Co., Providence, R. I.

**CLEVELAND PUNCH & SHEAR Works Co., 1306 E. 40th, Cleveland, O.** (See adv. index, end of book)

Davenport-McCullough Mfg. Co., Blissfield, Mich.

Davis Sewing Machine Co. ("Davis"), Dayton, Ohio

Gorton, Geo. Machine Works, Racine, Wis.

Higley Machine Co., Croton Falls, N. Y.

Hurlbut-Rogers Machine Co., South Sudbury, Mass.

Matson Machine & Tool Co. ("Bethel"), Bethel, Vt.

Niles-Bement-Pond Co., 111 B'way, New York

Nutter & Barnes Co., 326 A, Boston, Mass.

**PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York.** (See adv. index & branch offices, end of book)

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

**Slack Mfg. Co. (With Abrasive Wheel), Springfield, Vt.**

6557—Metal Edge Box Machines

National Metal Edge Box Co. (Automatic), 8th & Willow, Phila., Pa.

6558—Metal Furniture Machinery (Sheet Metal)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

6559—Metal Jig Sawing Machines

Grammes, L. F. & Sons, Allentown, Pa.

Thompson, H. G. & Son Co. ("Eureka"), New Haven, Conn.

6560—Metal Power Sawing Machines

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Thompson, H. G. Son Co. ("Eureka" Hack Saw Pattern), New Haven, Conn.

Metal Sawing Machines

(See Cold-Saw Cutting-off Machines; also Hot Sawing Machines)

6560a—Metal Tank Machinery

**NIAGARA MACHINE & TOOL WORKS,** Buffalo, N. Y. (See adv. index, end of book)

6561—Milk Bottle Sealing Machines

Crown Cork & Seal Co., Baltimore, Md.

6562—Milk Can Washing Machines

Dairymen's Mfg. Co., Jersey City, N. J.

Stoddard Mfg. Co., Rutland, Vt.

Milk Pasteurizing Machinery

(See Pasteurizers, Milk, Etc.)

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### 6563—Milling, Drilling & Tapping Machines (Radiator Loop.

Cincinnati-Bickford Tool Co., Cincinnati, O.
Needham, A. W., 110 E. 43d, New York.
Niles-Bement-Pond Co., 111 B'way, New York

### 6564— Milling Machines

(See also Milling Machines, Bench or Hand)
Adams Co. ("Farwell" Horizontal), Dubuque, Iowa
Aurora Tool Works (Plain & Universal), Aurora, Ind.
Barber-Colman Co. (Continuous), Rockford, Ill.
Beaman & Smith Co. (Horizontal, with One or More Spindles), Providence, R. I.
Becker Milling Machine Co. (Horizontal, Plain, Vertical, Universal, Large Hand & Planer Type), Hyde Park, Mass.
Bickford Machine Co. (Tap Threading), Greenfield, Mass.
Brown & Sharpe (Universal, Plain, Hand & Vertical Spindle), Providence, R. I.
Burr, Jno. T. & Sons (Slab Miller), 429 Kent av., Brooklyn, N. Y.
Cincinnati Milling Machine Co. (Plain, Universal & Vertical), Cincinnati, O.
Cleveland Machine Screw Co. (Worm, etc.), Cleveland, O.
Clough, R. M. (Vertical), Tolland, Conn.
Cook, Asa S. Co. ("Colt" & "Cook"), Hartford, Conn.
Covington Machine Co., Covington, Va.
Espen-Lucas Machine Works, 342 N 15th, Phila., Pa.
Fay & Scott, Dexter, Me.
Fosdick Machine Tool Co. (Horizontal), Blue Rock & Apple, Cincinnati, O.
Fox Machine Co. (Electrically Driven), Grand Rapids, Mich.
**FREVERT MACHINERY CO. (Mfrs.'** Agents & Dealers), 18 Dey, New York. (See adv. index, end of book)
Garvin Machine Co. (Universal, Plain, Vertical, Hand, Duplex, Double Face & Traverse Heads), 137 Varick, New York
Grand Rapids Machine Tool Co. (Plain), Grand Rapids, Mich.
Griswold, Geo. M. Machine Co., New Haven, Conn.
Hendy Machine Co. (Horizontal, Plain & Universal, etc.), Torrington, Conn.
Hibbard, Wm. H. Mfg. Co. (Vertical), 79 Washington, Brooklyn, N. Y.
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
Ingersoll Milling Machine Co. (Heavy, Horizontal & Vertical Spindle), Rockford, Ill.
Kearney & Trecker Co., Milwaukee, Wis.
Kempsmith Mfg. Co. (Plain, Universal & Lincoln Pattern), Milwaukee, Wis.
Le Blond, R. K. Machine Tool Co. (Plain & Universal), 4609 Easton av, Cincinnati, O.
McCabe, J. J. (Plain & Universal), 30 Church, New York
Mitts & Merrill (Keyseat), Saginaw, Mich.
Newton Machine Tool Works (Horizontal, Vertical, Universal & Slab), 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co. (Horizontal, Plain, Vertical & Universal), 111 B'way, New York
Oesterlein Machine Co., (Plain & Universal), 2850 Spring Grove av, Cincinnati, O.
Owen Machine Tool Co. (Horizontal, Plain, Duplex & Universal), Springfield, O.
Pratt & Whitney Co. (Horizontal & Vertical), Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Rochester Boring Machine Co. ("Universal"), Rochester, N. Y.
Rockford Milling Machine Co. ("Rockford," Hand & Power), Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
**SHUSTER, F. B. CO. (Double End &** Double Head for Butts & Rounding Both Ends of Wire), New Haven, Conn. (See adv. index, end of book)
Stark Tool Co., Waltham, Mass.
Stearns-Roger Mfg. Co., Denver, Colo.
**STRONG, CARLISLE & HAMMOND** Co., 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Thurston Mfg. Co. (Jewelers'), Providence, R. I.
Tindel-Morris Co. (Double Head Crank, etc.), Eddystone, Pa., & Ellwood City, Pa.
Underwood, H. B. & Co. (Portable), 1025 Hamilton, Phila., Pa.
Waltham Machine Works (Thread), Waltham, Mass.
Waltham Watch Tool Co. (Van Norman Duplex Universal & Bench), Springfield, Mass.
Warner & Swasey Co. (Valve), Cleveland, O.
Wickes Bros. (Heavy), Saginaw, Mich.

### 6565—Milling Machines (Bench)

American Watch Tool Co., Waltham, Mass.
Carter & Hakes Machine Co., Winsted, Conn.
Chicago Machine Tool Co., 127 N Canal, Chicago, Ill.
Elgin Tool Works (For Watch Mfrs., etc.), Elgin, Ill.
Hardinge Bros. ("Cataract"), 3135 N Lincoln av, Chicago, Ill.
Hartford Machine Screw Co., Hartford, Conn.
Pratt & Whitney Co., Hartford, Conn.
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
Sloan & Chace Mfg. Co., Newark, N. J.
**STARK TOOL CO. ("Stark"), Waltha**m, Mass. (See adv. index, end of book)
Waltham Watch Tool Co., Springfield, Mass.

### 6566—Milling Machines (Double Head)

Beaman & Smith Co., Providence, R. I.
Epsen-Lucas Machine Works, Phila., Pa.
Garvin Machine Co., Spring & Varick, New York
Newton Machine Tool Works, Phila., Pa.
Pratt & Whitney Co., Hartford, Conn.

### 6567—Milling Machines (Hand)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Chicago Machine Tool Co., 127 N Canal, Chicago, Ill.
Fox Machine Co., Grand Rapids, Mich.
Garvin Machine Co., Spring & Varick, New York
Pratt & Whitney Co., Hartford, Conn.
Rockford Milling Machine Co. ("Rockford"), Rockford, Ill.
Whitney Mfg. Co. (Hand & Weight, Feed & Friction Tapping Device), Hartford, Conn.

### 6568—Milling Machines (Lincoln)

Becker Milling Machine Co., Hyde Park, Mass.
Carter & Hakes Machine Co., Winsted, Conn.
Chicago Machine Tool Co., 127 N Canal, Chicago, Ill.
Cook, Asa S. Co. ("Colt" Pattern), 80 Huyshope av, Hartford, Conn.
Garvin Machine Co., Spring & Varick, New York
Hendley Machine Co. (And Double Head "Lincoln"), Torrington, Conn.
Kempsmith Mfg. Co., Milwaukee, Wis.
Pratt & Whitney Co., Hartford, Conn.

### 6569—Milling Machines (Manufacturing)

Barber-Colman Co., Rockford, Ill.
Kearney & Trecker ("Milwaukee" for Heavy Duty), 59th & National av, Milwaukee, Wis.

### 6570—Milling Machines (Plain Column Type)

Aurora Tool Works (Horizontal Spindle), Providence, R. I.
Beaman & Smith Co. (Horizontal Spindle), Providence, R. I.
Brown & Sharpe Mfg. Co. (Horizontal Spindle), Providence, R. I.
Cincinnati Milling Machine Co. (Horizontal Spindle), Cincinnati, O.
Fox Machine Co. (Horizontal Spindle), Grand Rapids, Mich.
Garvin Machine Co. (Horizontal Spindle), Spring & Varick, New York
Kearney & Trecker (Horizontal Spindle), Milwaukee, Wis.
Kempsmith Mfg. Co. (Horizontal Spindle), Milwaukee, Wis.
Le Blond, R. K. Machine Tool Co. (Horizontal Spindle), Cincinnati, O.
Oesterlein Machine Co. (Horizontal Spindle), Cincinnati, O.
Sellers, Wm. & Co. (Horizontal Spindle), 1600 Hamilton, Phila., Pa.

### 6571—Milling Machines (Planer Type)

Beaman & Smith Co. (Vertical & Horizontal Spindles), Providence, R. I.
Becker Milling Machine Co. (Horizontal & Vertical Spindle), Hyde Park, Mass.
Burr, John T. & Sons (Horizontal & Vertical Spindles), Brooklyn, N. Y.
Espen-Lucas Machine Works (Slab Type), Phila., Pa.
Ingersoll Milling Machine Co. (Vertical & Horizontal Spindles), Rockford, Ill.
Newton Machine Tool Works (Vertical & Horizontal Spindles), Phila., Pa.
Niles-Bement-Pond Co. (Vertical & Horizontal Spindles), 111 B'way, New York
Pratt & Whitney Co. (Horizontal & Vertical Spindles), Hartford, Conn.
Sellers, Wm. & Co. (Vertical & Horizontal Spindles), 1600 Hamilton, Phila., Pa.


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### 6572—Milling Machines (Universal)

Aurora Tool Works, Aurora, Ind.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Garvin Machine Co., Spring & Varick, New York
Hendey Machine Co., Torrington, Conn.
Kearney & Trecker, Milwaukee, Wis.
Kempsmith Mfg. Co., Milwaukee, Wis.
Le Blond, R. K. Machine Tool Co., Cincinnati, Ohio
Newton Machine Tool Works, Phila., Pa.
Oesterlein Machine Co., Cincinnati, O.
Owen Machine Tool Co. (Horizontal), Springfield, O.
**STARK TOOL CO. ("Stark," Pinion & Wheel Cutter Combined),** Waltham, Mass. (See adv. index, end of book)
Waltham Watch Tool Co., Springfield, Mass.

### 6573—Milling Machines (Valve)

American Tool & Machine Co., 109 Beach, Boston, Mass.

### 6574—Milling Machines (Vertical Spindle, Column Type)

Beaman & Smith Co. (Three Spindle), Providence, R. I.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Clough, R. M., Tolland, Conn.
Garvin Machine Co., Spring & Varick, New York
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Ingersoll Milling Machine Co., Rockford, Ill.
Johnson, Israel H., Jr. Co., Phila., Pa.
Kearney & Trecker, Milwaukee, Wis.
Newton Machine Tool Works, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa

### 6575—Mine Timber Framing Machines

Denver Engineering Works Co., Denver, Colo.
Hendy, Joshua Iron Works, San Francisco, Cal.

### 6576—Mine Ventilating Machinery

(See Fans, Mine Ventilating)

Miners' Sampling Machines ("Abbe"), 220 B'way, New York

### 6577— Mining Machinery

(See also Coal Mining Machinery)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Albany Iron Works, Albany, Ore.
Allentown Rolling Mills, Allentown, Pa.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Concentrator Co., Joplin, Mo.
Arizona & Sonora Mfg. Co. (Sectional), Nogales, Ariz.
Ashland Iron Works, Ashland, Ore.
Atlanta Machine Works (Gold), Atlanta, Ga.
Aurora Foundry & Machine Works (Complete Line), Aurora, Mo.
Austin Mfg. Co. (Crushers'), Manhattan bldg, Chicago, Ill.; Works, Harvey, Ill.
Barker, Samuel G. & Son, Scranton, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa. (See adv. index, end of book)
**BRADLEY PULVERIZER CO. ("Griffin Mill"),** 92 State, Boston, Mass.
Caird, C. S., Helena, Mont.
Chalmers & Williams, Chicago Heights, Ill.
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Colorado Iron Works Co., Denver, Colo.
**CUMMER, F. D. & SON CO. (Mechanical Dryers & Roasters),** The Arcade, Cleveland, O. (See adv. index, end of book)
Currier, Cyrus & Sons, Newark, N. J.
Danville Foundry & Machine Co., Danville, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Engineering Works Co. (Electric, etc.), Blake c 30th, Denver, Colo.
Dubois Iron Works, Dubois, Pa.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Elspass Eng. & Mining Mach'y Co., Denver,
Erie City Iron Works, Erie, Pa. Colo.
**EXETER MACHINE WORKS, Pittston,** Pa. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
Fulton Engine Works, Los Angeles, Cal.
Galena Foundry & Machine Co., Galena, Kans.
Galena Iron Works Co., Galena, Ill.
Galigher Machinery Co. (Callow Settling Tanks, Traveling Beet Screens, etc.), Salt Lake City, Utah
Globe Iron Works (Inc.), Stockton, Cal.
Golden State & Miners Iron Works, San Francisco, Cal.
Goodman Mfg. Co. (Electric), 48th pl & Halsted, Chicago, Ill.
Great Lakes Engineering Works, Detroit, Mich.
Hallidie Co., Spokane, Wash.
Hammond Mfg. Co., Portland, Ore.
Harron, Rickard & McCone (Inc.), San Francisco, Cal.
Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.
Hendy, Joshua Machine Works, San Francisco, Cal.
Henshaw-Buckley & Co., San Francisco, Cal.
Herzler & Henninger, Belleville, Ill.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Interstate Engineering Co., Bedford, O.
Jackson, Byron Machine Works, 411 Market, San Francisco, Cal.
Jackson-Church-Wilcox Co. (Coal, etc.), Saginaw, Mich.
**JEFFREY MFG. CO. (Coal, etc.),** Columbus, O. (See adv. index & branch offices, end of book)
Johnston & Jennings Co., Cleveland, O.
Krogh Mfg. Co., San Francisco, Cal.
Krom Machine Works, 170 B'way, New York; Works: Jersey City, N. J.
Lake Shore Engine Works (Coal, etc.), Marquette, Mich.
Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
**LIDGERWOOD MFG. CO., 96 Liberty,** New York. (See adv. index & branch offices, end of book)
Llewellyn Iron Works, Los Angeles, Cal.
McFarlane, Peter & Sons Iron Works Co., Denver, Colo.
Marine Iron Co., Bay City, Mich.
Mashek Engineering Co., 90 West, New York
Mecklenburg Iron Works (Gold, etc.), Charlotte, N. C.
Merralls Mill Co., San Francisco, Cal.
Mill & Smelter Engineering Co., 114 Liberty, New York
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.
Montgomery, J. H. Machinery Co. (New & Second Hand), 1220 Curtis, Denver, Col.
Morgan-Gardner Electric Co. (Coal, etc.), 2640 Shields av, Chicago, Ill.
Mullen, John & Son (Coal, etc.), Shamokin, Pa.
National Iron Works, Spokane, Wash.
Northwestern Iron Works, Seattle, Wash.
**ORE DRESSING MACHINERY CO.,** (Complete Concentrating Plants), 114-118 Liberty, New York
Ottumwa Iron Works (Coal, Gold & Silver), Ottumwa, Ia.
Phoenix Iron Works, Portland, Ore.
Portage Lake Foundry & Machinery Co., Hancock, Mich.
Portland Iron Works, Portland, Ore.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Prescott, Fred. M. Steam Pump Co., Milwaukee, Wis.
Prox, Frank Co., Terre Haute, Ind.
Puget Sound Iron & Steel Works, Tacoma, Wash.
Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.
Robins Conveying Belt Co., 15 Park row, New York
Rogers, Jno. M. Works, Gloucester City, N. J.
Salt Lake Engineering Works, Salt Lake City, Utah
Scottdale Foundry & Mach. Co., Scottdale, Pa.
Silver Bros. Iron Works Co., Salt Lake City, Utah
Silver, Hynum A. Fdry. & Machine Co., Salt Lake City, Utah
Snyder Steel & Iron Works Co., Kansas City, Mo.
Stearns-Roger Mfg. Co., Denver, Colo.
Steiger & Kerr Stone & Foundry Co., San Francisco, Cal.
Stroh, W. H. (Est. of) (Coal, etc.), Mauch Chunk, Pa.
Sturtevant Mill Co., Clayton c Park, Dor., Boston, Mass.
**SULLIVAN MACHINERY CO.,** Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Suppes Forge & Foundry Co., Johnstown, Pa.
Tamaqua Mfg. Co., Tamaqua, Pa.
Traylor Engineering Co., Allentown, Pa.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Union Iron Works Co. (Gold, Silver, etc.), San Francisco, Cal.
Union Iron Works (Inc.), Spokane, Wash.
United Iron Works, Oakland, Cal.
United Iron Works Co., Springfield, Mo.
Vulcan Iron Works, San Francisco, Cal.
Vulcan Iron Works, Wilkes-Barre, Pa.
Vulcan Iron Works Co., Seattle, Wash.
Webb City & Carterville Foundry & Machine Works, Webb City, Mo.


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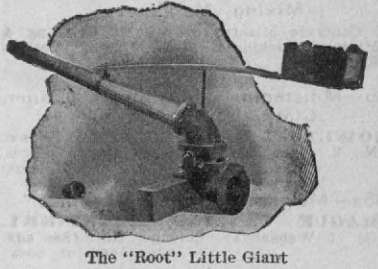
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Whitcomb, Geo. D. Co., Rochelle, Ill.
Willamette Iron & Steel Works, Portland, Ore.
Wisconsin Engine Co., Corliss, Wis.

### Mining Machinery (Electric)
(See Coal Mining Machinery, Electric)

### 6578—Mining Machinery (Hydraulic)
**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Hendy, Joshua Iron Works, San Francisco, Cal.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.

### 6579—Mining & Crushing Machinery (Portable)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

### 6579a— Minting Machinery
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6580—Mitre Blanking Machines
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)

### 6581— Mitre Cutting Machines
Loy & Mawrath Co. (Iron Metal), Newark, N. J.

### 6582—Mitre Sawing & Clamping Machines
Sheldon, E. H. & Co., 312 N May, Chicago, Ill.

### 6583— Mitreing Machines
American Woodworking Mach'y Co., Rochester, Beach Mfg. Co., Montrose, Pa. N. Y.
Bentel & Margedant Co. (Spoke), Hamilton, O.
Brandon Machine Co. (Mitreing Machine & Vise Combined), Akron, O.
Chandler & Price Co. (For Printers' Brass or Metal Rule, etc.), Cleveland, O.
Eureka Electric Mitre Machine Co. (Electric), Bloomington, Ill.
Fay, J. A. & Egan Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.
Grammes, L. F. & Sons (Mitre Saws), Allentown, Pa.
Hoe, R. & Co., 504 Grand, New York
Kirk Grindstone Co., Cincinnati, O.
Marsh, H. C. Co., Rockford, Ill.
Power, L. & Co. (Mitre Saws), 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Spilker, B. J. Mfg. Co., Cincinnati, O.
Walter's, Wm. P. Sons (And Vise Combined), 1233 Market, Phila., Pa.
Wesel, F. Mfg. Co., 10 Spruce, New York

### 6584—Mitreing Machines (Paper, Cloth & Leather)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### Mixing Machinery
(See Concrete Mixers; also Paint Grinding & Mixing Machines; also Mixers, Various Kinds)

### 6585—Moistening Machines (Paper, Cloth, Leather, Etc.)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6585a—Molasses Filling Machines
**SPRAGUE CANNING MACHINERY,** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6586—Molding Machines (Foundry)
Adams Co. ("Farwell," Universal Automatic & Multiple), Dubuque, Ia.
**ARCADE MFG. CO. ("Modern," for** Small Castings; also "Norcross," Jolt Ramming Machines), Freeport, Ill. (See adv. index, end of book)
Berkshire Mfg. Co. ("Berkshire" Automatic), Cleveland, O.
Buch's, A., Sons Co. (Gravity Moulder & "Parks" Portable Jar & Squeezer), Elizabethtown, Pa.
Buffalo Foundry Supply Co., Buffalo, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Delano, E. A. Co. (For Pulley Molding, etc.), 217 Huron, Chicago, Ill.
Demmler, Wm. & Bros. ("Kewanee," Jarring Type), Kewanee, Ill.
Hanna Engineering Works ("Rathbone"), 2059 Elston av, Chicago, Ill.
Herman Pneumatic Machine Co. ("Herman," Jarring), Zelienople, Pa.
International Molding Machine Co., 2300 S Western av, Chicago, Ill.
Killing, E. Moulding Machine Works ("Killing"), Davenport, Ia
Lawlor, J. J. Improved Jarring Molding Machine Co., Zelienople, Pa.


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McCormick, J. S. Co. ("Twentieth Century"), Pittsburg, Pa.
Midland Machine Co. (Roll-Over), Detroit Mich.
Mumford Molding Machine Co. (Rock-over), 30 Church, New York
Norcross Molding Machine Co. ("Norcross" Jar Ramming), Terre Haute, Ind.
Oregon Foundry & Machine Co. ("Stratton"), Oregon, Ill.
**OSBORN MFG. CO. ("Osborn"), 5401** Hamilton av, N E, Cleveland, O. (See adv. index, end of book)
Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
Pridmore, H. E., 1901 S Rockwell, Chicago, Ill.
Racine Engine & Machine Co. ("Racine"), Racine, Wis.
Reynolds & Co., New Haven, Conn.
Richmond Foundry & Mfg. Co., Richmond, Va.
Rowland Machine Co. ("Simplex"), Racine, Wis.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
Syracuse Malleable Iron Works ("Burns Economic" & "Blake Roll-Over"), Syracuse, N. Y.
Tabor Mfg. Co. (Shockless Jarring), 18th & Hamilton, Phila., Pa.
**TAYLOR-WILSON MFG. CO. (For** Gears, etc.), McKees Rocks, Pa. (See adv. index, end of book)
Turner Machine Co. ("McCanna," for Brass & Iron), 3632 N Lawrence, Phila., Pa.
Union Foundry & Machine Co. ("Lawlor," Jarring & Squeezing), Pittsburg, Pa.
Van Tine Molding Machine Co., Elizabeth, N. J.
Webb, J. F. Mfg. Co., Davenport, Ia.
Webster & Perks Tool Co., Springfield, O.
Woods, S. A. Machine Co., Boston, Mass.

### 6587—Molding Sander Machines
Austin & Eddy ("Pioneer"), Boston, Mass.
Yerkes & Finan Doow Washing Machine Co., St. Louis, Mo.

### 6588— Monitor Machines
Pratt & Whitney Co. (Made Only to Order), Hartford, Conn.

### Mortar Mixing Machinery
(See Mixers, Mortar)

### Mortising Machines
(Mortising Machines are classified under the Kind Descriptive Thereof)

### 6589—Mosaic Cutting Machinery
Patch, F. R. Mfg. Co. (For Cutting Mosaic Blocks), Rutland, Vt.
Roussel, Albert C., 524 W 50th, New York

### 6590—Mosaic & Tile Floor Polishing Machines
Patch, F. R. Mfg. Co., Rutland, Vt.

### 6591—Moving Picture Machines
American Moving Picture Machine Co., 102 Beekman, New York
Chicago Projecting Co., 225 Dearborn, Chicago, Ill.
Ikonograph Co. of America (For the Home), 513 W 29th, New York
Kleine Optical Co., 52 State, Chicago, Ill.

### 6592— Multigraph Machines
American Multigraph Sales Co. ("The Gammeter Multigraph," for Printing Office Forms, Fac-Simile Letters, etc.), Case av & Kelly, Cleveland, O.

### 6593—Muscle Testing & Lifting Machines
Rosenfield Mfg. Co., 585 Hudson, New York
Mills Novelty Co., cor Jackson blvd & Green, Chicago, Ill.

### 6594— Nail Mill Machinery
Ford & Donnelly, Kokomo, Ind.
Glader, Wm. Machine Works ("Glader" Wire Nail Making Machines), 210 N Ann, Chicago, Ill.
Kilby Mfg. Co. (Wire, etc.), Cleveland, O.
Miller's, H. J. Sons ("Perkins Pattern" Wire), Bridgewater, Mass.
National Machinery Co. (Wire), Tiffin, O.
Perkins, Henry Co. (Wire), Bridgewater, Mass.
Turner, Vaughn & Taylor Co. (Wire Nail Mill, etc.), Cuyahoga Falls, O.
Walton & Mackee (Wire), Kokomo, Ind.

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### 6595—Nail Oxidizing Machines
Marquette, John N., 509 S Eden, Baltimore, Md.

### Nail Pulling Machines
(See Pullers, Nail)

### Nailing Machines
(See Box Nailing Machines; also Hoop Nailing Machines)

### 6596—Name Plate Embossing Machines
Roovers Mfg. Co., 170 B'way, New York
Simplex Mfg. Co., 90 West, New York

### 6597—Needle Forming Machines
**SHUSTER, F. B. CO. (Lingoe & Jacquard, Automatic), New Haven, Conn.** (See adv. index, end of book)

### 6598—Needle Machinery (Sewing Machine)
Langelier Mfg. Co., 67 Clifford, Providence, R. I.

### 6599— Netting Machines
Fowler Net & Twine Co., 107 S. 2d, Phila., Pa.

### 6600—Nipple Cutting Machines
Williams Tool Co., Erie, Pa.

### 6601—Nipple Threading Machines
Landis Machine Co., Waynesboro, Pa.
**MURCHEY MACHINE & TOOL CO.** ("Murchey," Automatic), 52 Porter c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)
Oster Mfg. Co., Cleveland, O.

### 6602— Noodle Machines
Shellman Noodle Cutting Machine Co., 164 Randolph, Chicago, Ill.

### 6603— Notching Machines
**AMERICAN CAN CO. (Machinery** Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
**BLISS, E. W. CO. (Armature), 19** Adams, Brooklyn, N. Y. (See adv. index, & branch offices, end of book)
Leffler, Chas. A. & Co. (Also Bench Notching Machinery for Pierced Tin Ware, Can, Boxes, etc.), 63 Clymer, Brooklyn, N. Y.
**LONG & ALLSTATTER CO. (Disc Ar**mature with Turret Tools), Hamilton, O. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.

### 6604—Nougat Cutting Machines
Rittenhouse, Frank, Norristown, Pa.

### 6605— Numbering Machines
American Numbering Machine Co., 291 Essex, Brooklyn, N. Y.
**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl., New York. (See adv. index, end of book)
Bates Mfg. Co. ("Bates" & "Wizard" Automatic Hand), 50 Church, New York
Cushman & Denison Mfg. Co. ("Reliance"), 240 W 23d, New York
Force, W. A. & Co., 59 Beekman, New York
Haynes & Co., Providence, R. I.
Kastens, Henry (Consecutive), 418 W 27th, New York
Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
Roberts Numbering Machine Co. ("Bates," Automatic), 706 Jamaica av, B'klyn, N. Y.
Smith, R. H. Mfg. Co., Springfield, Mass.
Stewart & Hollhand ("Premier"), 201 B'way, New York
Wetter Numbering Machine Co., 331 Classon av, Brooklyn, N. Y.

### 6606—Numbering & Paging Machines
Hoole Machine & Engraving Works ("Champion"), 29 Prospect, Brooklyn, N. Y.
Latham Machinery Co. ("Monitor"), 306 S Canal, Chicago, Ill.
Sheridan, T. W. & C. B. Co., 56 Duane, New York

### 6607—Nut Blanking Machines
**National Machinery Co., Tiffin, O.**
**Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.**

### 6608— Nut Burring Machines
National Machinery Co., Tiffin, O.

### 6609— Nut Facing Machines
Acme Machinery Co., Cleveland, O.
Detrick & Harvey Machine Co., Baltimore, Md.
National Machinery Co., Tiffin, O.
Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Victor Tool Co. ("Victor"), Waynesboro, Pa.

### 6610— Nut Finishing Machines
Pawtucket Mfg. Co., Pawtucket, R. I.

### Nut Machinery
(See Bolt & Nut Machinery)

### 6611—Nut Machines (Hot Pressed)
Acme Machinery Co. (Automatic), Cleveland, O.
Ajax Mfg. Co. (Automatic), 3830 Lakeside av, N. E., Cleveland, O.
National Machinery Co., Tiffin, O.

### 6612— Nut Milling Machines
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
**National Machinery Co., Tiffin, O.**
**Newton Machine Tool Works Co. (Inc.), 2347 Vine, Phila., Pa.**

### 6613— Nut Tapping Machines
Acme Machinery Co. (Automatic), Cleveland, O.
Automatic Machine Co. ("Coulter," Horizontal), Bridgeport, Conn.
Brown, H. B. Co., East Hampton, Conn.
Ellers, H. P. Mfg. Co., Cleveland, O.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Howard Iron Works, Buffalo, N. Y.
Landis Machine Co. ("Landis"), Waynesboro, Pa.
National Machinery Co. (Semi-Automatic), Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Norwalk Mfg. Co., Norwalk, O.
Pawtucket Mfg. Co. (2, 3, 4, 6 & 9 Spindles), Pawtucket, R. I.)
Putnam Machine Co., Finchburg, Mass.
Reed, Francis Co. (Upright, 2 to 4 Spindles. for ½-in. Nuts and Under), Worcester, Mass.
Webster & Perks Tool Co., Springfield, O.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.

### 6614—Nut Tapping Machines (Multiple Spindle)
Acme Machinery Co., Cleveland, O.
Detrick & Harvey Machine Co., Baltimore, Md.
Pawtucket Mfg. Co., Pawtucket, R. I.
Reed, Frances Co., Worcester, Mass.

### 6615— Oat Meal Machinery
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
**Invincible Grain Cleaner Co. (Cleaning, Grading & Packing), Silver Creek, N. Y.**
Nordyke & Marmon Co., Indianapolis, Ind.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**Willamette Iron & Steel Works, Portland, Ore.**

### 6616—Oats & Rice Clipping Machines
**Huntley Mfg. Co. ("Monitor" Dustless), Silver Creek, N. Y.**

### 6617—Oil Cake Packing Machines
**French Oil Mill Machinery Co., Piqua, O.**

### 6618—Oil Cake Trimming Machines
**French Oil Mill Machinery Co., Piqua, O.**

### 6619— Oil Cloth Machinery
Currier, Cyrus & Sons, Newark, N. J.
Dienelt & Eisenhardt, 1308 N Howard, Phila. Pa
Moore & White Co. (Oil Cloth Printing Machines), 15th & Lehigh av, Phila., Pa.
Waldron, Jno. Co., New Brunswick, N. J.

### 6620— Oil Mill Machinery
Atlanta Utility Works, Atlanta, Ga.
Bauer Bros. Co., Springfield, O.
Burrell Mfg. Co., Bradley, Ill.
Bushnell, G. H. Press Co., Thompsonville, Conn.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Callahan, W. P. & Co., Dayton, O.
Cardwell Machine Co., Richmond, Va.
Chickasaw Iron Works, Memphis, Tenn.
French Oil Mill Machinery Co. (Oil Cake Trimming & Packing), Piqua, O.
Hardie Tynes Mfg. Co., Birmingham, Ala.
Lombard Iron Works & Supply Co., Augusta, Ga.
Platt Iron Works Co. (Cotton, Linseed, etc.), Dayton, O.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
Van Winkle Gin & Machine Co., Atlanta, Ga.

### Oil Well Machinery
(See Well Drilling Machinery)

### 6620a—Oil & Gas Stove Machinery (Sheet Metal)
**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6621—Oil & Waste Saving Machines
Oil & Waste Saving Machine Co., Real Estate Exchange bldg., Phila., Pa.

### 6622—Oleo & Lard Rendering Machinery
Redfield, Robt. S. & Co., 90 West, New York; Factory: Elizabeth, N. J.

### 6623—Onion Topping & Sorting Machines
**Vrooman, W. F. & Son, Plainesville, O.**

### Opticians' Machines
(See Jewelers' & Opticians' Machines & Tool)

### Ore Concentrating Machines
(See Concentrators, Ore)

### 6624—Ore Dressing Machinery
**ORE DRESSING MACHINERY CO.,** 114-118 Liberty, New York
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

### Ore Handling Machinery
(See Coal & Ore Handling Machinery)

### 6625— Ore Milling Machinery
Colorado Iron Works Co., Denver, Colo.

### 6626—Ore Reduction Machinery
Wellman-Seaver-Morgan Co., Cleveland, O.

### 6627—Ore Washing Machinery
American Concentrator Co. (For Iron Ore, etc.), Joplin, Mo.
Comstock, Geo. S., Mechanicsburg Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
McLanahan Stone Machine Co., Hollidaysburg, Pa.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Tamaqua Mfg. Co., Tamaqua, Pa.

### 6628—Oyster Canners' Machinery
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6629—Oyster Cultivating Machinery
Automatic Machine Co., Bridgeport, Conn.

### 6630—Package Handling Machines for Department Stores, Factories, Etc.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Page Engineering Co., Baltimore, Md.
**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)

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### 6631—Package Heading-Up Machines

Glader, Wm. Machine Works ("Glader" 10 to 30 Gallons), 210 N Ann, Chicago, Ill.

### 6631a—Package Sealing & Labeling Machines

McLaurin, James D. Co. (Inc.) ("Bull Dog"), 63 Park row, New York

### 6632—Package Sorting Machines (Automatic)

Avery Scale Co., North Milwaukee, Wis.

### 6632a—Packers' Can-Making Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6633—Packing House Machinery

Adt, Jno. B. (For Pork Packers, etc.), 332 N Holliday, Baltimore, Md.
Brecht, Gus V. Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Clyde Machine Works Co., 3911 Union av, Chicago, Ill.
Joslin, Schmidt & Co. (For Working up Waste Products), Cincinnati, O.
**KUTZTOWN FOUNDRY & MACHINE** Co., 116 N Broad, Phila., Pa. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY ("Link** Belt"), Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Murray Iron Works Co. (Choppers, Stuffers, Mixers, Rockers, Presses, etc.), Burlington, Iowa
Perrin, Wm. R. & Co., 46th & Loomis, Chicago, Ill.
Redfield, Robt. S. & Co., 90 West, New York; Factory, Elizabeth, N. J.
Riverside Foundry & Machine Works, Riverside, Cal.
Riverside Iron Works, Kansas City, Kans.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

### 6634— Packing Machines

(See also Bag Filling Machines)

**ALLIS-CHALMERS CO. (Flour, etc.),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Barnard & Leas Mfg. Co. ("Eureka" Sugar, Flour, Bran, etc.), Moline, Ill.
Campbell, P. F. ("Richmond" Flour), 55 Laurel Phila., Pa.
Girard Machine Works (Inc.), 2616 Girard av., Phila., Pa.
Howes, S. Co. (Cement), Silver Creek, N. Y.
Huntley Mfg. Co., ("Monitor," for Flour, Bran, etc.), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Nordyke & Marmon Co. (Bran, Flour, Sack etc.), Indianapolis, Ind.
Ross, Chas. & Son Co. (Barrel, etc.), 148 Classon av, Brooklyn, N. Y.
**SPROUT, WALDRON & CO. (For** Flour, Bran, Feed, etc.), Muncy, Pa. (See adv. index, end of book)

### 6635— Pail Handle Machines

Gerlach, Peter Co., Cleveland, O.
Goodspeed Machine Co., Winchendon, Mass.
Kline, Lewis T., Alpena, Mich.

### Pail Machinery

(See Tub & Pail Machinery)

### 6636— Paint Can Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6637—Paint Grinding & Mixing Machinery

(See also Mills, Grinding; also Machinery, Pulverizing)

Acton, John, 118 John, Brooklyn, N. Y.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Berrill's, J. A. Sons, Waterville, N. Y.
Campbell, P. F., 55 Laurel, Phila., Pa.
**CANTON FOUNDRY & MACHINE CO.** ("Canton," Mixing Only; Liquid & Semi-Paste), Canton, O. (See adv. index, end of book)
Day, J. H. Co., Cincinnati, O.
Gaston's, N. B. Sons Co., Beloit, Wis.
Holmes & Blanchard Co., Boston, Mass.
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Kent Machine Works, 39 Gold, Brooklyn, N. Y.
Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
Patterson Foundry & Machine Co., East Liverpool, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.
Ross, Chas. & Son Co., 148 Classon av., Brooklyn, N. Y.
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Waterville Foundry & Mfg. Co., Waterville, N. Y.

### 6638— Paint Roll Machines

Keene, Geo. C. & Co., Cincinnati, O.
Robinson, J. M. Mfg. Co., Cincinnati, O.

### 6639—Paint & White Wash Spraying Machines

(See also Pneumatic Painting Machines)

Acorn Brass Mfg. Co., Aurora, Ill.
Bean Spray Pump Co. ("Bean" Pneumatic), San Jose, Cal.
Brown, E. C. Co., Rochester, N. Y.
Del Solar, J. A., 108 Fulton, New York
Eureka Pneumatic Spray Co., 276 Spring, New York
**FOX, M. EWING & CO., 240 E. 136th,** New York. (See adv. index, end of book)
Hardie Mfg. Co. (Pneumatic), Hudson, Mich.
Humphreys Mfg. Co. ("Hercules," "Ajax"), Mansfield, O.
Hurst, H. L. Mfg. Co. ("Fitz-All"), Canton, Ohio
Koenigkramer, F. & F. ("Paragon"), Cincinnati, O.
McCormick Mfg. Co. ("Progress" & "Climax"), Dayton, O.
**MacLEOD, WALTER & CO. ("Buckeye"),** 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Muralo Company ("Cyclo"), New Brighton, Borough of Richmond, N. Y.
**MYERS, F. E. & BRO. ("Myers,"** "Century," "Hydraulic" & "Ratchet Handle"), Ashland, O. (See adv. index & branch offices, end of book)
Star Brass Works ("Binks Star"), 1911 Fulton, Chicago, Ill.
Wallace Supply Co., 120 S Jefferson, Chicago, Ill.

### 6640—Pamphlet Stitching Machines

Brown, R. H. Co., New Haven, Conn.

### 6641—Pan Cleaning & Greasing Machines

Gottschalk & Co. (Inc.) ("Standard," for Bakers), Reedsville, Pa.

### 6642—Pan Forming Machines

**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)

### 6643—Panel Raising Machines

American Woodworking Machine Co., Rochester, N. Y.
Andrew, M. L. & Co., Cincinnati, O.
Bentel & Margedant Co., Hamilton, O.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Heath, W. A., Machine Co., Lestershire, N. Y.
Kelley Electric Machine Co. ("Kelley" Electric Portable), Buffalo, N. Y.
Power, L. & Co., 20 S 23d, Phila., Pa.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

### 6644— Pantagraph Machines

Hope, John & Sons Engraving & Mfg. Co., Providence, R. I.

### 6645— Paper Bag Machinery

Brown Bag Filling Machine Co. (For Filling & Sealing Flat Paper Bags), Fitchburg, Mass.
Dietz Machine Works, 126 Fontain, Phila., Pa.
Fischer Machine Co., 1217 Race, Phila., Pa.
Fuller-Saxton Co., Drexel bldg, Phila., Pa.
Schmidt, F. L., 11th av & 21st, New York
Smith & Winchester Mfg. Co. (Cement, Flour, etc.), South Windham, Conn.
South Bend Paper Co., South Bend, Ind.
Williams Foundry & Machine Co., Akron, O.

### 6645a—Paper Board Lining Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)

### 6646—Paper Board Printing Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.

### 6647—Paper Box Corner Cutting Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6648—Paper Box Corner Staying Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6649—Paper Box Covering Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Stokes & Smith Co., 1011 Diamond, Phila., Pa.

### 6650—Paper Box Cutting & Scoring Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Herrick & Cowell (Rotary), New Haven, Conn.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6651—Paper Box Edging Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6652—Paper Box Ending Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6653—Paper Box Folding & Gluing Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Herrick & Cowell (Hand Fed), New Haven, Conn.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6654—Paper Box Forming Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6655—Paper Box Gumming Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
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### 6656— Paper Box Machinery

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Blessing, Louis, Jackson, Mich.
Edmands, A. B., Milford, Mass.
Grammes, L. F. & Sons, Allentown, Pa.
Griswold, Geo. M. Machine Co., New Haven, Conn.
Herrick & Cowell, New Haven, Conn. Conn.
Hinze, H., Tribune bldg, New York
Hobbs Mfg. Co. (Folding Machines), Worcester, Mass.
Inman Mfg. Co., Amsterdam, N. Y.
Jacques, John & Son, Worcester, Mass.
Kingsbury & Davis Machine Co. ("Standard" Automatic Double End Setting), 102 Pearl, Boston, Mass. Works, Contoocook, N. H.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Latham Mach'y Co., 306 S Canal, Chicago, Ill.
Leffler, Chas. & Co. (Metal Edge), 63 Clymer, Brooklyn, N. Y.
Marshall, Son & Co. (Gauge Table Shears, etc.), 226 Purchase, Boston, Mass.
Metcalf, J. C. Paper Box Machinery Co., 102 Pearl, Boston, Mass.
National Metal Edge Box Co., 8th & Willow, Phila., Pa.
Rau, Emanuel, 90 Walker, New York
Robinson, John T. Co., Hyde Park, Mass.
Saranac Machine Co. ("Advance" Stapling Machines), St. Joseph, Mich.
Sheridan, T. W. & C. B. Co., 56 Duane, New York
Stokes & Smith Co., 1011 Diamond, Phila., Pa.

### 6656a—Paper Box Printing Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.

### 6657—Paper Box Sealing Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

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### 6657a—Paper Box Thumbhole Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6658—Paper Box Topping Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hobbs Mfg. Co., Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6659—Paper Box Wire Stitching Machines

Latham Machinery Co. ("Monitor"), 206 S Canal, Chicago, Ill.

### 6659a—Paper Box Wrapping Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)

### 6660—Paper Calendering Machines

Norwood Engineering Co., Florence, Mass.

### 6661— Paper Can Machinery

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Chicago Paper Tube & Can Co. ("Williams," for Round Paper Cans & Boxes), 20 N May, Chicago, Ill.
Dayton Machine Wks. (Paper Pail), Dayton, O.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6662—Paper Clip & Fastener Machines

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Special Machinery Co. (Automatic), Bridgeport, Conn.

### 6663—Paper Coating Machines

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Moore & White Co., 15th & Lehigh av, Phila., Pa.

### 6664—Paper Covering Machines

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Watson Machine Co., Paterson, N. J.

### 6665—Paper Cutting Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Black-Clawson Co. ("Perfect"), Hamilton, O.
**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)
Challenge Machinery Co. ("Advance," "Diamond" Lever & Power), Grand Haven, Mich.
Chandler & Price Co., Cleveland, O.
Child Acme Cutter & Press Co. ("Acme" Self-Clamping), 184 Summer, Boston, Mass.
Clark, H. C. & Son Machine Co. (Revolving, for Paper Mills), Lee, Mass.
Dillon Machine Co. (Horizontal & Vertical, Single, Double Cutters), Lawrence, Mass.
Eardley & Winterbottom, 125 Worth, New York
Fuller, E. C. Co. ("White"), 28 Reade, New York
Golding Mfg Co., Franklin, Mass.
Grammes, L. F. & Sons, Allentown, Pa.
Hamblet, Geo. W. (Revolving), Lawrence, Mass.
Hinze, H., Tribune bldg, New York
Inman Mfg. Co., Amsterdam, N. Y.
Jacques, Jno. & Son, Worcester, Mass.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Langston, Samuel M. (Rotary, for Fine Card Work), Camden, N. J.
Oswego Machine Works (Niel Gray, Jr., Prop.) ("Oswego," "Brown & Carver," Hand Lever, Bench, Hand Wheel Drive, Power, etc.) Oswego, N. Y.
Prankard, C. J. & Sons (Corner Cutters), Troy, N. Y.
Rice, Barton & Fales Machine & Iron Co. ("Hill" Diagonal; also Revolving), Worcester, Mass.
Schniedewend, Paul & Co. ("Schniedewend," Lever Interchangeable), 625 W Jackson blvd, Chicago, Ill.
Seybold Machine Co., Dayton, O.

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Sheridan, T. W. & C. B. Co., 56 Duane, New York
Smith & Winchester Mfg. Co. (Undercut Trimmer for Paper Mills, etc.), S Windham, Conn.
Standard Machinery Co. ("Keystone"), Mystic, Conn.

### 6666—Paper Folding Machines
(For Bookbinders, Printers, Etc.)

Brown Folding Machine Co., Erie, Pa.
Chambers Bros. Co. (For Bookbinders & Printers), 52d, below Lancaster av, Phila, Pa.
Cleveland Folding Machine Co. ("New Idea"), Cleveland, O.
Dexter Folder Co., Pearl River, N. Y.
Eclipse Folding Machine Co., Sidney, O.
Fuller, E. C., 28 Reade, New York
Grammes, L. F. & Sons, Allentown, Pa.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Mentges Folder Co., Sidney, O.
Sheridan, T. W. & C. B. Co., 56 Duane, New York
Van Etten Machine Co., Sidney, O.

### 6667—Paper Folding Machines (Automatic)

Dick, A. B. (For Office Use), 736 W Jackson boul, Chicago, Ill.

### 6668—Paper Napkin Machinery

Waldron, John Co., New Brunswick, N. J.

### 6669— Paper Pail Machinery

Dayton Machine Works, Dayton, O.

### 6670—Paper Painting Machinery

Stocker, J. W. (For Color Cards, etc.), 2541 Schubert av, Chicago, Ill.

### 6671—Paper Punching Machinery

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Latham Machinery Co. ("Monitor" Duplex & Multiplex), 306 S Canal, Chicago, Ill.

### 6672—Paper Rewinding Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Norwood Engineering Co., Florence, Mass.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Ticonderoga Machine Works ("Warren," Double Drum), Ticonderoga, N. Y.

### 6673—Paper Rule Forming Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Herrick & Cowell, New Haven, Conn.

### 6674— Paper Ruling Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Funk Machine Co. (Disc Ruler, Sheet & Webb), 22 City Hall pl, New York
Hickok, W. O. Mfg. Co., Harrisburg, Pa.

### 6675—Paper Saturating, Coating & Water-proofing Machines

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Moore & White Co., 15th & Lehigh av, Phila., Pa.

### Paper Scoring Machines
(See Paper Box Cutting & Scoring Machines)

### 6676—Paper Shipping Case Machinery

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6677—Paper Slitting & Rewinding Machines

American Machine Co., Newark, Del.
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Bellows Falls Machine Co., Bellows Falls, Vt.
Beloit Iron Works (Rewinders), Beloit, Wis.
**CAMERON MACHINE CO., 61 Poplar,** B'klyn, N. Y. (See adv. index, end of book)
Clark, H. C. & Son Machine Co., Lee, Mass
Dietz Machine Works, 126 Fountain, Phila., Pa
Fales, L. F. (Paper Slitting), Walpole, Mass.
Hamblett Machine Co. (Top Slitters), Lawrence, Mass.
Hobbs Mfg. Co., Worcester, Mass.
Jacques, Jno. & Son (Slitting Only), Worcester, Mass.
Kidder Press Co., Dover, N. H.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Koegel, Chas. & Sons, Holyoke, Mass.
Langston, Samuel M., Camden, N. J.
Marshall, Son & Co. (For Roll Paper), Boston, Mass.
Meisel Press & Mfg. Co., Boston, Mass.
Moore & White Co., 15th & Lehigh av, Phila.,
Norwood Engineering Co., Florence, Mass. Fa.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.

### 6678—Paper Stapling Machines

Acme Staple Co. (For Bookbinders), Camden, N. J.
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Hotchkiss, E. H. Co., Norwalk, Conn.

### Paper Stock Cutting Machines
(See Rag Cutting Machines)

### 6679—Paper Tarring Machines

Pioneer Iron Wks., 149 Pioneer, B'klyn, N. Y.

### 6680— Paper Tube Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6680a—Paper Twine & Cordage Machinery

Brownell, G. L., Worcester, Mass.

### 6681—Paper & Pulp Mill Machinery

Appleton Machine Co., Appleton, Wis.
Bagley & Sewall Co., Watertown, N. Y.
Baker & Shevlin, Saratoga Springs, N. Y.
Bellows Falls Machine Co. ("Smith's"), Bellows Falls, Vt.
Beloit Iron Works, Beloit, Wis.
Bess Machine Co., Hamilton, O.
Bigelow, Cheney Wire Wks., Springfield, Mass.
Biggs Boiler Works Co. (Rotary Bleaching Boilers), Akron, O.
Black-Clawson Co., Hamilton, O.
Brownville Iron Works, Brownville, N. Y.
**CALDWELL, W. E. CO., Brook & D** Louisville, Ky. (See adv. index, end of book)
Carthage Machine Co., Carthage, N. Y.
Clark, H. C. & Son Machine Co., Lee, Mass.
**CUMMER, F. D. & SON CO., The Arcade,** Cleveland, O. (See adv. index, end of book)
Currier, Cyrus & Sons (Paper Mill Machinery), Newark, N. J.
Dayton Globe Iron Works Co., Dayton, O.
Dexter Folder Co., Pearl River, N. Y.
Dillon Machine Co., Lawrence, Mass.
Dilts Machine Works, Fulton, N. Y.
Dix Fdry & Machine Co., Glens Falls, N. Y.
Downingtown Mfg. Co., East Downingtown, Pa.
Emerson Mfg. Co., Lawrence, Mass.
Farnham Mfg. Co., 83 Wash'n, Buffalo, N. Y.
Farrel Foundry & Machine Co., Ansonia, Conn.
Friction Pulley & Machine Works, Hudson Falls, N. Y.
Fulton Machine & Vise Co., Lowville, N. Y.
Glens Falls Machine Works, Glens Falls, N. Y.
Hankey, A. & Co. (Paper Mill Engines, Bars & Plate), 2235 Vine, Phila., Pa.
Holyoke Machine Co., Holyoke, Mass., & Worcester, Mass.
Horne, J. H. & Sons Co., Lawrence, Mass.
Hutchinson, C. H., Manchester, N. H.
Improved Paper Machinery Co., Nashua, N. H.
International Process Co., 5 Beekman, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jolly, J. & W., Holyoke, Mass.
Jones, E. D. & Sons Co., Pittsfield, Mass.
Keyes, F. E. Co., 20 Broad, New York
Kidder Machine Co., Franklin Falls, N. H.
Koegel, Chas. & Son, Holyoke, Mass.
Mills Machine Co., Lawrence, Mass.
Moore & White Co., 15th & Lehigh av, Philadelphia, Pa.
National Roll & Foundry Co., Avonmore, Pa.
Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
Noble & Wood Mach. Co., Hoosick Falls, N. Y.
Norwood Engineering Co., Florence, Mass.
Penney, J. W. & Sons Co., Mechanics' Falls, Me.
Perkins, B. F. & Son, Holyoke, Mass.
Portland Co., Portland, Me.
Portland Iron Works (Inc.), Portland, Ore.
Pusey & Jones Co., Wilmington, Del.
Rice-Barton & Fales Machine & Iron Co., Worcester, Mass.
Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.
Scott, Olin, Pennington, Vt.
Seybold Machine Co., Dayton, O.
Shartle Bros. Machine Co., Middletown, Ohio.
Smith & Winchester Mfg. Co., South Windham, Conn.
Stillman, L. H., Brattleboro, Vt.
Taylor Bros. & Co. (Engine Bars & Plates), Fulton, N. Y.
Thompson Mfg. Co., Lancaster, N. H.
Ticonderoga Machine Works, Ticonderoga, N. Y.
Townsend Furnace & Machine Shop Co., Albany, N. Y.
Union Iron Works, Bangor, Me.
Union Machine Co., Fitchburg, Mass.
Valley Iron Works Co., Appleton, Wis.
**WERNER & PFLEIDERER (Paper** Pulp Machines, Rapid Dissolvers, etc.), Saginaw, Mich. (See adv. index, end of book)
Wetherill, Robert & Co., Chester, Pa.
Wheelwright Filler & Mfg. Co., Providence, R. I.
Windsor Locks Machine Co., Windsor Locks, Conn.

### 6682— Papering Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO. (Paper Box), Rochester, N. Y. (See adv. index & branch offices, end of book)**

### 6682a—Paraffine Coating Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)

### 6683— Paraffining Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Waldron, Jno. Co., New Brunswick, N. J.

### 6684— Paste Mixing Machines

Acton, John, 118 John, Brooklyn, N. Y.
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Day, J. H. Co., Cincinnati, O.
Grammes, L. F. & Sons, Allentown, Pa.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

### 6685— Pasteurizing Machines

Adt, Jno. B. (Beer), 332 N Holliday, Baltimore, Md.
Barry-Wehmiller Machy. Co. ("National"), 2042 Walnut, St. Louis, Mo.
Goldman, E. & Co. ("Universal," Beer), 175 E Randolph, Chicago, Ill.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Loew Mfg. Co. ("New Era," "Monitor," Beer), Cleveland, O.
Mangus, A. Sons & Co. ("Ruff's"), 244 E Randolph, Chicago, Ill.
Miller Pasteurizing Machine Co. ("Miller"), Canton, O.
Twentieth Century Machinery Co., Milwaukee, Wis.
Yawman & Erbe Mfg. Co. (Beer), Rochester, N. Y.

### 6686—Pasting Machines (Paper, Cloth, Leather, Etc.)

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### Pattern Letter Plate Embossing Machines
(See Presses, Type Embossing)

### 6687—Pattern Makers' Disc Grinding Machines

Gardner Machine Co. ("Gardner"), Beloit, Wis.

### Pattern Makers' Machinery
(See Lathes, Pattern Makers')

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### 6688—Pattern Shop Sawing Machines

Baker Bros., Toledo, O.
Bentel & Margedant Co., Hamilton, O.
Grammes, L. F. & Sons, Allentown, Pa.
Hobbs Mfg. Co., Worcester, Mass.
Oliver Machinery Co. (Band Saws), Grand Rapids, Mich.
West Side Iron Works (Band Sawing Machines), Grand Rapids, Mich.

### 6688a—Pea Canners' Machinery

**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### Pea Harvesting Machinery

(See Harvesters, Bean & Pea)

### 6689—Pea Hulling Machinery

Chisholm-Scott Co., Cadiz, O.

### 6690—Peach Pitting Machines

**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 6691— Peanut Machinery

Ayers, J. R., Petersburg, Va.
Cardwell Machine Co. (Pickers & Cleaners, Shellers & Separators), Richmond Va.
Hench & Dromgold Co. (Inc.), York, Pa.
Johnson & Field Mfg. Co., Racine, Wis.
Stratton & Bragg Co. (Pickers, Cleaners, etc.) Petersburg, Va.
Straub, A. W. & Co., Phila., Pa.

### Peanut Roasting Machines

(See Coffee, Peanut & Cocoa Bean Roasting Machines)

### 6692—Pearl Button Machinery & Tools

Holub-Dusha Co., 1799 1st av, New York
Northampton Emery Wheel Co., Leeds, Mass.
Skipp, Jas. & Son, Newark, N. J.

### 6693— Peat Fuel Machinery

Commercial Artificial Fuel Co., Toledo, O.

### Peeling Machines (Fruit & Vegetable)

(See Parers, Fruit & Vegetable)

### 6694— Perforating Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Burton's, A. G. Son, 118 S Clinton, Chicago, Ill.
Cross & Speirs Machine Co. (Sheet Metal), Waterbury, Conn.
Cummins, B. F. Co. ("Chicago" Hand, for Check, R. R. Ticket Dating, etc.), 4740 W Ravenswood Park, Chicago, Ill.
Dewes, A. Co., 243 Centre, New York
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Latham Machinery Co. (For Paper, etc.), 306 S Canal, Chicago, Ill.
**LONG & ALLSTATTER (Sheet** Metal), Hamilton, O. (See adv. index, end of book)
National Perforating Machine Co., Nat'l Life bldg, Kansas City, Mo.
**NIAGARA MACHINE & TOOL W'KS** (For Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Roberts Numbering Machine Co., 706 Jamaica av, Brooklyn, N. Y.
Tatum, Sam'l C. Co. (Paper, Motor Connected), Cincinnati, O.
Waterbury Farrel Foundry & Machine Co. (For Metal), Waterbury, Conn.

### 6694a—Petroleum Can Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6695—Pharmaceutical Machinery

Colton, Arthur Co., Detroit, Mich.
Hall, Albert B., Indianapolis, Ind.
Remington Mfg. Co., 514 Arch, Phila., Pa.
Stokes, F. J. Machine Co. (Dryers, Stills, Kettles, Mills, Emulsifiers, Tablet, Pill & Capsule Machinery, etc.), 1th & Cambria. Phila., Pa.
**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book)

### 6696—Phosphate Mill Machinery

Bailey-Lebby Co., Charleston, S. C.
Kehoe Iron Works, Savannah, Ga.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Walker & Elliott, Wilmington, Del.

### 6697—Photo Engravers' Machinery

Royle, Jno. & Sons, Paterson, N. J.

### 6698—Photo Mount Beveling Machines

Dietz Machine Co., 126 Fountain, Phila., Pa.

### 6699—Photo Printing Machines

Rondinella, L. F. ("Star" Sun & Electric), 4043 Walnut, Phila., Pa.

### 6700—Photograph Card Beveling Machines

Dietz Machine Co., 126 Fountain, Phila., Pa.

### 6701— Photograph Machines

Chicago Ferrotype Co. ("Wonder Cannon" & "Wonder Automatic" Photo Button), 511 Laflin, Chicago, Ill.
National Photograph Machine Co., 85 Beaver,
Rectigraph Co., Rochester, N. Y. New York

### 6702—Piano Action Machinery

Erlandsen, Julius, 172 Centre, New York
Nilson, A. H. Machine Co., Bridgeport, Conn.
Pryibil, P. (Est. of), 512 W 41st, New York
Redin, Ekstrom & Co., Rockford, Ill.

### 6703—Piano & Music String Machinery

Leffler, Chas. & Co., 49 Clymer, Brooklyn, N. Y.

### 6704—Pick Eye Forging Machines

Birmingham Iron Foundry, Derby, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

### 6705—Picket Heading & Pointing Machines

Berlin Machine Works, Beloit, Wis.
Chapman's, T. M. Sons Co., Old Town, Me.
Defiance Machine Works, Defiance, O.
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.

### 6706—Picture Frame Machinery

McFarlan & Spilker Mfg. Co., Cincinnati, O.
Marsh, H. C. Co. (And Picture Frame Vise, Combined), Rockford, Ill.
Rockford Mitre Box Co. ("Star"), Rockford, Ill.
Shawver Co. (Oval Cutter, "Springfield"), Springfield, O.

### 6707—Pie Making Machines (Automatic)

Colborne Mfg. Co., 416 W Indiana, Chicago, Ill.

### 6707a—Pieced Tinware Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6708—Pig Iron Casting Machines

American Casting Machine Co., Pittsburg, Pa.
Heyl & Patterson ("Uehling"), Pittsburg, Pa.
Weimer Machine Works Co., Lebanon, Pa.

### 6709— Pile Driving Machinery

(See also Engines, Pile Driving)

**AMERICAN HOIST & DERRICK CO.** St. Paul, Minn. (See adv. index & branch offices, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Browning Engineering Co., 50 Church, New York
Browning, Victor R. & Co., Cleveland, O.
Bucyrus Co. (Railroad), S Milwaukee, Wis.
Byers, Jno. F. Machine Co., Ravenna, O.
**CARLIN'S, THOS. SONS CO., 1610** River av (North Side), Pittsburg, Pa. (See adv. index, end of book)
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
**MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass.** (See adv. index & branch offices, end of book)
**MUNDY, J. S., 20 Prospect, Newark, N. J.** (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO.,** Harrison, N. J. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
Shaw, Willis Machinery Co., 171 La Salle, Chicago, Ill.
Toledo Foundry & Machine Co., Toledo, O.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Union Iron Works ("Arnott," for Steel Piles, etc.), Hoboken, N. J.
Vulcan Iron Works, 327 No. Irving av, Chicago, Ill.

### 6710— Pill Coating Machines

Colton, Arthur Co. (Automatic), Detroit, Mich.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.

### 6711— Pill Making Machines

(See also Tablet Machines)

Colton, Arthur (Automatic), Detroit, Mich.
Day, J. H. Co., 1144 Harrison av, Cincinnati, O.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.

### 6712—Pill & Tablet Counting Machinery

Weiscopf, L. ("Economic"), 20 Vesey, New York

### 6713— Pin Drilling Machines

Ajax Mfg. Co. (Automatic, Multiple Spindle), 3830 Lakeside av, N. E., Cleveland, O.

### Pin Machinery

(See Hook & Eye Machinery)

### 6714—Pin Pointing Machinery

Baird Machine Co., Oakville, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Manville Bros. Co., Waterbury, Conn.

### 6715— Pin Sticking Machines

Baird Machine Co., Oakville, Conn.

### 6716— Pineapple Machinery

Lewis, E. J. (Peeling), Middleport, N. Y.
Mitchell, Jno. R. Co. (Graters. Sizers, etc.), Baltimore, Md.
Sinclair-Scott Co., Baltimore, Md.
**SPRAGUE CANNING MACHINERY** Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stevenson & Co., Baltimore, Md.
Zastrow, Geo. W. ("Zastrow"), Baltimore, Md.

### 6717— Pinion Cutting Machines

(See also Gear Cutting Machines)

**STARK TOOL CO. (Automatic, Cuts** Pinion 1-16 to 5-8), Waltham, Mass. (See adv. index, end of book)

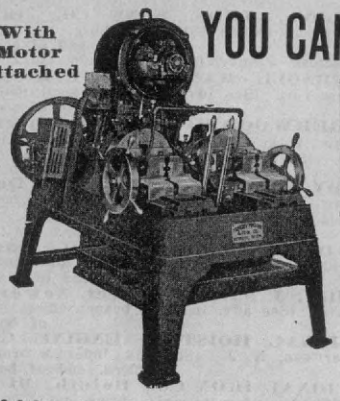
### 6718—Pinion Polishing Machines

**STARK TOOL CO. ("Stark," Rotary** Leaf), Waltham, Mass. (See adv. index, end of book)

### 6719—Pinion & Wheel Cutting Machines

**STARK TOOL CO. (Cuts from 1-16 to** 4 Inches in Diameter), Waltham, Mass. (See adv. index, end of book)

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# YOU CAN REDUCE PIPE THREADING COSTS AT LEAST 300%

**Modern Rapid Pipe Threading Machines**

**The Murchey Double Head Rapid Pipe & Nipple Threading Machines**

are guaranteed to cut as many threads as any 3 of the best single head machines on the market.

A TRIAL WILL PROVE OUR CLAIMS

## MURCHEY MACHINE & TOOL CO.

**Fourth and Porter Streets, DETROIT, MICH.**


### 6720—Pinking & Scalloping Machines

Ahlstrom, O. J., 711 B'way, New York
Durbrow & Hearne Mfg. Co., 12 Wooster, New York
Lindner & Vradenburgh (Pinking), 239 Centre, New York
Osborne, C. S. & Co. ("C. S. O. & Co." Pinking Machines for Harness Makers, etc.), Harrison, N. J.
Oswego Machine Works, Oswego, N. Y.
Rotary File & Machine Co. (Pinking Machines Only), 200 Diamond, Brooklyn, N. Y.
Stimpson, Edwin B. Co., 31 Spruce, New York

### 6721—Pipe Bending Machines

Chester Engineering & Machine Co., Chester, Pa.
**CHICAGO PNEUMATIC TOOL CO.,** ("Chicago," Hand & Power), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cox, J. Fillmore & Co. ("Cox" Pipe & Tube), Bayonne, N. J.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Standard Engineering Works, Ellwood City, Pa.
Stoever Foundry & Mfg. Co. ("Neuert"), Meyerstown, Pa.
Underwood, H. B. & Co. (Portable, Steam or Air), 1024 Hamilton, Phila., Pa.
Wallace Supply Co. (Hand Power), 120 S Jefferson, Chicago, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wrigley, Thos. & Co., 300 Dearborn, Chicago, Ill.

### 6722— Pipe Calking Machines

Smith, A. P. Mfg. Co. ("O'Neil" Steam), East Orange, N. J.

### 6723—Pipe Crushing & Shearing Machines (Combined)

United Engineering & Fdry Co., Pittsburg, Pa.

### 6723a—Pipe Cutter & Die Grinding Machines

**MURCHEY MACHINE & TOOL CO.,** 52 Porter c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)

### 6724—Pipe Cutting & Threading Machines

(See also Cutters, Pipe)

**ARMSTRONG MFG. CO., 278 Knowlton,** Bridgeport, Conn. (See adv. index & branch offices, end of book)
**BIGNALL & KEELER MFG. CO.** ("Peerless," "P. D. Q. C.," "Duplex"), Edwardsville, Ill. (See adv. index, end of book)
Borden Co. (Hand Pipe Threading Machines), Warren, O.
Clow, Jas. B. & Sons (Portable), 344 Franklin, Chicago, Ill.
Columbus Machine Co., Columbus, O.
Cox & Sons Co., Lafayette bldg, Phila., Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Curtis & Curtis Co., Bridgeport, Conn.
Detrick & Harvey Machine Co. (Pipe Threading Only), 508 E Preston, Baltimore, Md.
Fox Machine Co. (Cutting Machines Only), Grand Rapids, Mich.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Hart Mfg. Co. (Hand), Cleveland, O.
Hoefer Mfg. Co. ("Hoefer" Adjustable Pipe Threading Machine), Freeport, Ill.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Landis Machine Co. ("Landis," Threading), Waynesboro, Pa.
Loew Mfg. Co. ("Loew Victor"), Cleveland, O.
Merrell Mfg. Co. ("Apex," "Ideal"), Toledo, Ohio
Morris Engineering Co. ("Douglass" & "Eclipse" Portable Pipe Cutters up to 60 inch Pipe), 333 Walnut, Phila., Pa.
**MURCHEY MACHINE & TOOL CO.** (For Nipple & Pipe Threading; also Rapid Roller Pipe Cutters), 52 Porter c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)
National Machinery Co. (Pipe Threaders), Tiffin, O.
Niles-Bement-Pond Co. ("Cox," "Williams" Hand & Power), 111 B'way, New York
Nye Tool & Machine Works ("Nye" Hand Power, 1 to 4 inches), 108 S Jefferson, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Oster Mfg. Co., 2057 E 61st pl., Cleveland, O.
Pfaff & Kendall, Newark, N. J.
San Francisco Eng. Co., San Francisco, Cal.
Saunders, D. Sons ("I. X L."), Yonkers, N. Y.
**SIMMONS, JOHN CO., 110 Centre,** New York. (See adv. index, end of book)
Smith, A. P. Mfg. Co. ("French," Pipe Cutting Machines), East Orange, N. J.
Spring Pipe Threader & Mfg. Co. ("Spring" Pipe Cutter & Threader), St. Louis, Mo.
Standard Engineering Co. ("Standard Wieland"), Elwood City, Pa.
Standard Machinery Co. ("Wilson"), Bowling Green, O.

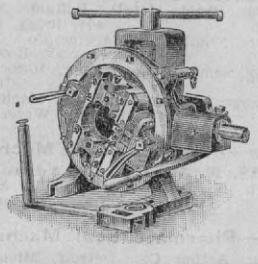
## Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.


## THE ARMSTRONG MANUFACTURING CO.

**278 Knowlton St., BRIDGEPORT, CONN.**

248 CANAL ST., NEW YORK 175 NO. JEFFERSON ST., CHICAGO, ILL.



**ARMSTRONG PIPE THREADING MACHINE**

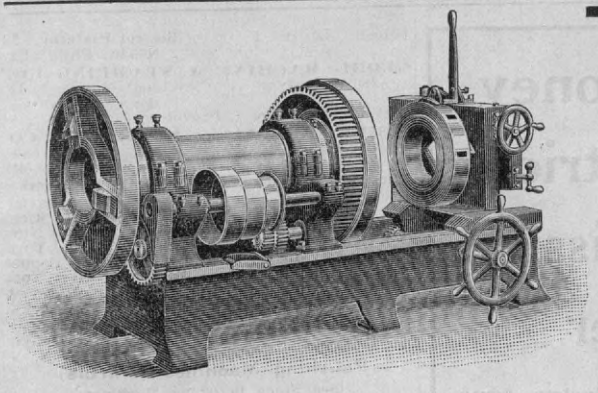
**FOR HAND OR POWER**

Made in 5 Sizes—No. 0 and 00, use our Celebrated Dies either for Pipe or Bolt.

No. 1, 1½ and 3 use Bits designed for these machines.

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## Peerless, P. D. Q. C. and Duplex

Pipe Threading and Cutting-Off Machines are made in 17 styles and sizes, for ¼-in. to 18 in. pipe, belt or motor drive. You will find among them just the thing to fit your particular requirements, with the assurance that it is a thoroughly efficient, durable and economical tool.

*Write us your requirements and let us recommend a machine to fit them*

**Bignall & Keeler Mfg. Co.**
**Edwardsville, Ill.**

Stoever Foundry & Mfg. Co., Meyerstown, Pa.
**TAYLOR-WILSON MFG. CO. (For** Pipe & Tube Mills, etc.). McKees Rocks, **Pa. (See adv. index, end of book)**
Threading Machine Co. ("Little Wonder," "Sandusky" Plain & Ratchet Threading Machines), Sandusky, O.
Toledo Pipe Threading Machine Co., Toledo, O.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Walworth Mfg. Co., Boston, Mass.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Williams Tool Co. (Pipe Cutting & Threading), Erie, Pa.

### 6725—Pipe Expanding & Flanging Machinery

Lovekin Pipe Expanding & Flanging Machine Co. ("Lovekin"), Phila., Pa.
Patterson-Allen Engineering Co. (Hydraulic), 2 Rector, New York
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6726— Pipe Jointing Machines

Bertsch & Co., Cambridge City, Ind.

### 6727—Pipe Polishing Machines

Standard Engineering Co., Ellwood City, Pa.

### Pipe Threading Machines

(See Pipe Cutting & Threading Machines)

### 6728—Pipe & Tube Mill Machinery

**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
Rosedale Foundry & Machine Co., N S, Pittsburg, Pa.
**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

### 6729—Pipe & Tube Straightening Machines

Brightman Mfg. Co., Columbus, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**TAYLOR-WILSON MFG. CO., McKees** Rocks, Pa. (See adv. index, end of book)

### 6730— Pitching Machines

Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
Gerlach, Peter Co., Cleveland, O.
Haggenmiller, Th. (Est. of) ("Haggenmiller"), 827 N 4th, Phila., Pa.
Kaestner & Hecht Co. (Inc.) ("Perfection"), 440 S Jefferson, Chicago, Ill.
National Machine Works, Sheffield & North av, Chicago, Ill.
Pawling & Harnischfeger Co. ("Milwaukee"). Milwaukee, Wis.
Rauch, Henry & Son (Inc.) ("Universal"), Mount Vernon, N. Y.

### 6731—Pivot Polishing Machines

**STARK TOOL CO. ("Stark," Wig-**Wag & Rotary Leaf), Waltham, Mass. (See adv. index, end of book)

### 6732—Placer Mining Machinery

Bucyrus Co., South Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
United Iron Works, Oakland, Cal.

### Planing Machines

(See Planers, Various Kinds)

### 6733— Plaster Mill Machinery

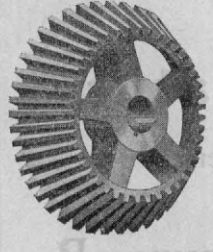
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Butterworth & Lowe (Inc.), Grand Rapids, Mich.
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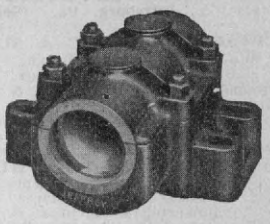
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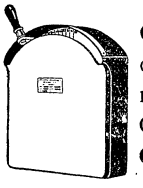
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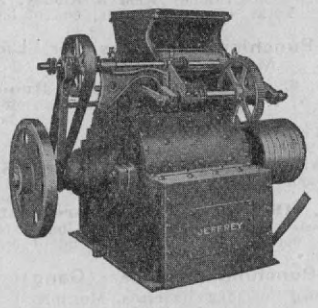
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**Kent Mill Co., 170 B'way, New York**
**Lehigh Car Wheel & Axle Wks. ("Fuller-Lehigh" Pulverizer), Catasauqua, Pa.**
McLauthlin, Geo. T. Co., Boston, Mass.
Nebel, M. A., 72 Grand av, B'klyn, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
**Patterson Foundry & Machine Co., East Liverpool, O.**
**Pennsylvania Crusher Co., Stephen Girard bldg, Phila., Pa.**
**Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.**
Pratt Engineering & Machine Co., Atlanta, Ga.
**Raymond Impact Pulverizer Co. (Clay), 1500 W Harrison, Chicago, Ill.**
**Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.**
**Sackett, A. J. (Fertilizing), 5th av & First, Baltimore, Md.**
St. Louis Pulverizer Co., 416 N Main, St. Louis
**Schutz-O'Neill Co., Minneapolis, Minn. Mo.**
**Smidth, F. L. & Co., 50 Church, New York**
**Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.**
**Stedman's Foundry & Machine Works, Aurora, Ill**
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Sturtevant Mill Co., Boston, Mass.
Thornburgh Mfg. Co., Bowling Green, O.
**THROOP'S, JOHN E. SONS CO. (Tube Mills), ft of Lewis, Trenton, N. J. (See adv. index, end of book)**
Traylor Engineering Co., Allentown, Pa.
**Valk & Murdock Iron Works, Charleston, S. C.**
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
Walker & Ellicott, Wilmington, Del.
West Tube Mill Co., 220 B'way, New York
**Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.**

### Pump Stock & Pipe Boring Machines

(See Wood Pipe Boring Machines)

### 6766— Pumping Machinery

(See also Pumps, Steam; also Engines, Pumping, Various Kinds)

**ALLIS-CHALMERS CO. ("Reynolds")** Pumping Engines, Compound & Triple Expansion), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Machine Co. ("Denney" Hot Air), Newark, Del.
**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Anderson, Carl Co. (Gas & Gasoline), Huron N W c Kingsbury, Chicago, Ill.
**BEGGS, JAMES & CO., Liberty & Church,** New York
Buffalo Steam Pump Co. (Compound), Buffalo, N. Y.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Canton-Hughes Pump Co., Wooster, O.
Columbus Steam Pump Works Co., Columbus, Ohio
Connellsville Mfg. & Mine Supply Co. (Inc.) (For Coal & Coke Works), Connellsville, Pa.
Cook Well Co. (Deep Well), St. Louis, Mo.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O., & 223 N Jefferson,** Chicago, Ill. (See adv. index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Dow, George E. Pumping Engine Co., San Francisco, Cal.
Edwards, Jos. & Co., 412 Water, New York
Epping-Carpenter Co. (Heavy Pumping Engines), Pittsburg, Pa.
Erie Pump & Engine Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N.** Y. (See adv. index & branch offices, end of book)
Guild & Garrison, Kent av c S 10th, Brooklyn, N. Y.
Hartig Standard Gas Engine Co., Newark, N. J.
Heisler Mfg. Co. (High Duty, Compensating, Horizontal Crank & Fly Wheel), St. Marys, Ohio
**HOLLY MFG. CO. (Horizontal & Vertical** Compound & Triple Expansion High Duty Cranes & Fly Wheel Pumping), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kilby Mfg. Co., Cleveland, O.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
McGowan, Jno. H. Co., Cincinnati, O.
Mietz & Weiss (Gas & Kerosene), 134 Mott, New York
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
Morris, I. P. Co. (High Duty), Beach & Ball, Phila., Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Steam Pump Co., Upper Sandusky, O.
Nordberg Mfg. Co., Milwaukee, Wis.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Platt Iron Works Co. (Corliss Pumping Engines), Dayton, O.
Prescott, Fred'k M., Steam Pump Co., West Allis, Wis.
**Providence Engineering Works (Pumping Engines), Providence, R. I.**
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Reilly, J. J. Mfg. Co., Louisville, Ky.


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Rider-Ericsson Engine Co., 35 Warren, New York
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Roots, P. H. & F. M. Co., Connersville, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Southwark Foundry & Machine Co., S 5th & Wash'n av, Phila., Pa.
Union Steam Pump Co., Battle Creek, Mich.
United Iron Works, Oakland, Cal.
Wagener Steam Pump Works, Canton, O.
Walker Mfg. Co., Fenton, Mich.
Warren Steam Pump Co., Warren, Mass.
Weimer Machine Works Co. (Pumping Engines for Blast Furnaces, Mines, etc.), Lebanon, Pa.
Weinman Pump Mfg. Co., Columbus, O.
Wells, F. C. (Est. of), 101 Clinton, Chicago, Ill.
Wetherill, Robt. & Co. (High Duty Pumping Engines), Chester, Pa.
Wheeler, C. H. Mfg. Co., Lehigh & N 18th, Phila., Pa.
Wood, R. D. & Co. (High Duty), 400 Chestnut, Phila., Pa.

### 6767—Pumping Machines (Electric)

**DEMING CO., Salem, O., & 223 N Jefferson, Chicago, Ill.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**THOMAS & SMITH (Inc.) ("Economy"), 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York.** (See adv. index, end of book)

### 6768—Pumping Machines (Gas)

(See also Pumps, Various Kinds)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa.** (See adv. index, end of book)

### 6769—Pumping Machines (Gasoline)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O., & 223 N Jefferson, Chicago, Ill.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

### Pumping Machines (Horse Power)

(See Pumping Outfits, Horse Power)

### 6770—Pumpkin Machinery (Canners')

**SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill.** (See adv. index, end of book)

### 6771—Pumpkin Peeling & Seeding Machines

**SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill.** (See adv. index, end of book)

### 6772—Punch & Die Grinding Machines

Diamond Machine Co., Providence, R. I.

### 6773—Punching, Beveling & Trimming Machines

**GARRISON, A. FOUNDRY CO., 901 Bingham, Pittsburg, Pa.** (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**LONG & ALLSTATTER CO. (Combined for Boiler Plates, etc., with Automatic Space Table, Belt, Motor or Steam Driven), Hamilton, O.** (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame) West & Albany New York. (See adv. index end of book)

### 6774—Punching Machines (Boiler-Makers')

Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
Henderer's, A. L. Sons (Cast Steel), Wilmington, Del.
**HILLES & JONES CO., East Wilmington Del.** (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Heavy** Steam, Motor or Belt Driven), Hamilton, O. (See adv. index, end of book)
New Doty Mfg. Co., Jamesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Queen City Punch & Shear Co., Cincinnati, O.
Rock River Machine Co. ("Badger," Hand Power, etc.), Janesville, Wis.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Wais-King Tool Co., Winton Place, O.
Wickes Bros., Saginaw, Mich.
Williams Bros. ("Eagle," Power, Ithaca, N. Y.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.
Young Machine & Tool Co., Worcester, Mass.

### 6775—Punching Machines (Disc)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**LONG & ALLSTATTER CO. (Heavy,** Belt, Motor, or Steam Driven), Hamilton, O. (See adv. index end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame) West & Albany, New York. (See adv. index, end of book)

### 6776—Punching Machines for Light Metal, Paper, Etc.

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Ferracute Machine Co., Bridgeton, N. J.
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**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

### 6777—Punching Machines (Gang)

(See Punching Machines, Multiple)

### 6778—Punching Machines (Horizontal)

(See also Machinery, Punching & Shearing)
Alliance Machine Co., Alliance, O.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Heavy,** Belt, Motor & Steam Driven), Hamilton, O. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
United Engineering & Foundry Co., Farmers' B'k bldg, Pittsburg, Pa.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.
Williams, White & Co., Moline, Ill.
Young Machine & Tool Co., Worcester, Mass.

### 6779—Punching Machines (Hydraulic)

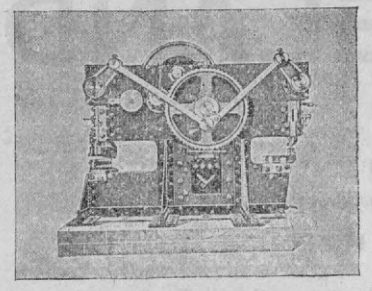
(See also Machinery, Punching & Shearing)
Alliance Machine Co., Alliance, O.
**DUDGEON, RICHARD, 24 Columbia,** New York. (See adv. index, end of book)
Henderer's, A. L. Sons, Wilmington, Del.
Long & Allstatter Co. (Belt, Motor & Steam Driven), Hamilton, O.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
United Engineering & Foundry Co., Farmers' B'k bldg, Pittsburg, Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)


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### Punching Machines (Hydraulic, Manhole)

(See Punching & Shearing Machines, Manhole)

### 6780—Punching Machines (I-Beam)

Bertsch & Co., Cambridge City, Ind.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington** Del. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Belt,** Steam or Motor Driven), Hamilton, O. (See adv. index, end of book)
New Doty Mfg. Co., Janesville, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
United Engineering & Fdry. Co., Pittsburg, Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Whiting, Geo. Co. (Beam Coping), 1701 Elston
Wickes Bros., Saginaw, Mich. av, Chicago, Ill.
Young Machine & Tool Co., Worcester, Mass.

### 6781—Punching Machines (Multiple)

Alliance Machine Co., Alliance, O.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Excelsior Tool & Machine Co., East St. Louis, Ill.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington,** Del. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Also** Heavy Belt, Motor or Steam Driven for Splice Bars, etc.), Hamilton, O. (See adv. index, end of book)
Loy & Nawrath Co. (Gang Punches), Newark, N. J.
McSherry Mfg. Co., Pittsburg, Pa.
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branches offices, end of book)
Queen City Punch & Shear Co., Cincinnati, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Southworth Machine Co. ("Portland," for Printers), Portland, Me.
United Engineering & Foundry Co Farmers' B'k bldg, Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.
Wickes Bros., Saginaw, Mich.
Williams, White & Co. (& Gate Shear), Moline, Ill.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

### 6782—Punching Machines (Rail)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington,** Del. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

### 6783—Punching Machines (Srew)

Barber Mfg. Co., Ashtabula, O.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Henderer's, A. L. Sons (Cast Steel), Wilmington, Del.
Irving Mfg. & Tool Co., 169 Chambers, New York
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Manitowoc Dry Dock Co., Manitowoc, Wis.
New Doty Mfg. Co. (Steel), Janesville, Wis.
Perkins Machine Co., Warren, Mass.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

### 6783a—Punching Machines (Stiles)

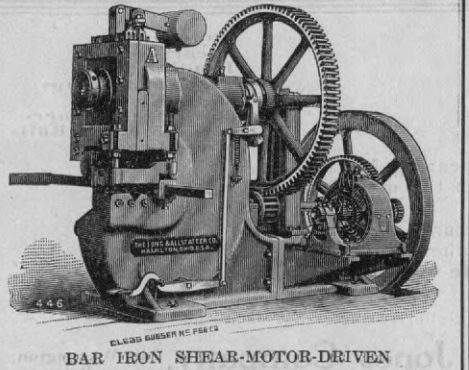
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

### 6783b—Punching Machines (Structural Steel)

**DUDGEON, RICHARD, 24 Columbia,** New York. (See adv. index, end of book)

### 6784—Punching & Cutting Machines (Combined)

Kling Bros., 1304 Hawthorne av, Chicago, Ill.
McDougall & Potter Co. (For Bar Iron, etc.), 606 W 55th, New York
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

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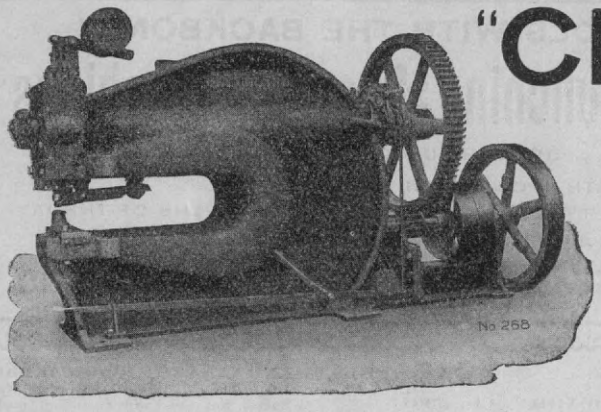
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### 6785—Punching & Shearing Machinery

(See also Punching Machines, Various Kinds; also Shears, Various Kinds)

Alliance Machine Co., Alliance, O.
Badger State Machine Co. (Hand & Belt Power), Janesville, Wis.
Beaudry & Co. (Inc.), 141 Milk, Boston, Mass.
Bertsch & Co., Cambridge City, Ind.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Covington Machine Co. ("C. C. Wais" Patent), Covington, Va.
Erie Foundry Co. (Shearing Machines Only), Erie, Pa.
Evans', Jno. Sons (Heavy), 13th & Buttonwood, Phila., Pa.
Excelsior Tool & Machine Co., East St. Louis, Ill.
Ferracute Machine Co., Bridgeton, N. J.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works (Punches & Dies), Toledo, O.
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Johnson, Israel H., Jr., Co., Phila., Pa.
Kidder, J. F. Mfg. Co., Burlington, Vt.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Lewthwaite, T. H. (Power Hand & Foot), 413 E 31st, New York
Little Giant Punch & Shear Co. ("Little Giant" Hand), Sparta, Ill.
**LONG & ALLSTATTER CO. (Deep** Throat, etc.), Hamilton, O. (See adv. index, end of book)
Luther Mfg. Co., Olean, N. Y.
McSherry, Mfg. Co., Pittsburg, Pa.
Mackintosh, Hemphill & Co., Pittsburg, Pa.
Mitts & Merrill, Saginaw, Mich.
**MORGAN ENGINEERING CO. (Electric,** Hydraulic, Steam & Power), Alliance, Ohio. (See adv. index & branch offices, end of book)
New Doty Mfg. Co. (Blacksmith & Carriage Builders), Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co. (Sheet Metal Workers), 157 Oraton, Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Queen City Punch & Shear Co. (Single & Double Throat, 4 to 48-in.), Cincinnati, O.
Robinson, J. M. Mfg. Co., Cincinnati, O.
Rock River Machine Co., Janesville, Wis.
Royersford Foundry & Machine Co. (Combined), Royersford, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila, Pa.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO. (Hydraulic,** etc.), 38 Church, New York. (See adv. index, end of book)
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.
Wickes Bros., Saginaw, Mich.
Williams, White & Co., Moline, Ill.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.
Wood, Wm. H., Media, Pa.
Young Machine & Tool Co. (Hand & Power), Worcester, Mass.

### 6786—Punching & Shearing Machines (Combined)

Bertsch & Co. (Combined Multiple Punch & Shear), Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)


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**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Royersford Foundry & Machine Co. (Power), Royersford, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila, Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.
Young Machine & Tool Co., Worcester, Mass.

PRESSES PUNCHES SHEARS
Medium and Heavy Duty
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

### 6787—Punching & Shearing Machines (Double End)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**MORGAN ENGINEERING CO. (Belt** Driven, etc.), Alliance, O. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.
Williams, White & Co., Moline, Ill.

### 6788—Punching & Shearing Machines (Manhole)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**MORGAN ENGINEERING CO. (Hydraulic),** Alliance, O. (See adv. index & branch offices, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Wickes Bros., Saginaw, Mich.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

### 6789—Punching & Shearing Machines (Plate Work)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Wickes Bros., Saginaw, Mich.

### 6790—Punching & Shearing & Bar Cutter Machines (Combined)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

### 6791—Quarrying Machinery & Supplies

(See the Specific Article Required. If not classified, write us for information desired)

### 6792— Quartering Machines

Niles-Bement-Pond Co., 111 B'way, New York

### 6793— Rack Cutting Machines

Gould & Eberhardt (Automatic & Semi-Automatic), Newark, N. J.
LeBlond, R. K. Mach. Tool Co., Cincinnati, O.
Walcott & Wood Machine Tool Co. (36 x 8, 60 x 10 & 96 x10 in., Half & Full Automatic), Jackson, Mich.

### 6794— Radiator Machinery

Bryant, O. Sons Co., Buffalo, N. Y.

### 6795— Rag Cutting Machines

Black-Clawson Co., Hamilton, O.
Clark, H. C. & Son Machine Co., Lee, Mass.
Holyoke Machine Works, Holyoke, Mass.
Mills Machine Co., Lawrence, Mass.
Noble & Wood Machine Co., Hoosick Falls, N. Y.
Norwood Engineering Co., Florence, Mass.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Sandy Hill Iron & Brass Works (For Rag, Rope & Jute), Hudson Falls, N. Y.
Taylor, Stiles & Co., Riegelsville, N. J.

### 6796—Rail Bending & Straightening Machines

(See also Benders, Rail)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Kalamazoo R'y Supply Co., Kalamazoo, Mich.
Niles-Bement-Pond Co., 111 B'way, New York
Q. M. S. Co. (Hydraulic), Plainfield, N. J.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
United Engineering & Foundry Co. (Vertical, for Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.
**WATSON-STILLMAN CO. (Hydraulic),** 38 Church, New York (See adv. index, end of book)

### 6797— Rail Cutting Machines

**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6798— Rail Drilling Machines

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foote-Burt Co. ("Universal" Adjustable), Cleveland, O.

### 6799— Rail Ending Machines

Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.

### 6800—Rail Sawing Machines

(See also Cold-Saw Cutting-Off Machines; also Hot Sawing Machines)

Buda Co. (Rail & Shop), Railway Ex. bldg, Chicago, Ill.
Higley Machine Co., Croton Falls, N. Y.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Q. & C. Co. ("Q. & C" Portable Hand Power), 90 West, New York
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### 6801—Railroad Cross Tie Machines

Greenlee Bros. Co., 9 Jackson blvd, Chicago, Ill.
Salem Iron Works (Inc.), Salem, N. C.

### 6802—Railroad Tie Adzing & Boring Machines

Greenlee Bros. Co. (Automatic), 9 Jackson blvd, Chicago, Ill.

### 6803—Railroad Track Laying Machines

Harris Track Laying Machine Co., Chicago, Ill.
Roberts Bros., 125 La Salle, Chicago, Ill.

### 6804— Raisin Machinery

Fresno Agricultural Works, Fresno, Cal.

### 6805—Rattan Weaving Machinery

Leffler, Chas. & Co., 63 Clymer, B'klyn, N. Y.

### 6806— Reaming Machines

Niles-Bement-Pond Co., 111 B'way, New York
Smith, E. G. Co. (Power), Columbia, Pa.
Stow Mfg. Co., Binghamton, N. Y.

### 6807— Reclamation Machinery

Haslehurst, W. W., San Francisco, Cal.
Krogh Mfg. Co., San Francisco, Cal.

### Reducing Machines

(See Swaging Machines)

### Refrigerating Machinery

(See Ice & Refrigerating Machines)

### 6808— Registering Machines

Root, C. J., Bristol, Conn.

### 6809— Rendering Machinery

Brecht, B. S. Co., 12th & Cass av, St. Louis, Mo.
Platt Iron Works Co. ("Powter" Process), Dayton, O.

### Re-Sawing Machines

(See Band Sawing Machines)

### 6810—Re-Sawing Machines (Horizontal)

Chase Turbine Mfg. Co., Orange, Mass.

### 6811— Re-Seating Machines

Lagonda Mfg. Co. (For Cleaning Faces, Nuts & Caps of Boiler Tubes), Springfield, O.
Liberty Mfg. Co. (For Cleaning Faces, Nuts & Caps of Water Tube Boilers), Pittsburg, Pa.

### Rice Cleaning Machinery

(See Coffee & Rice Cleaning Machinery)

### 6812— Rice Mill Machinery

Bahmann Iron Works Co., Cincinnati, O.
Barnard & Leas Mfg. Co. (Separators, Graders, Clippers, etc.), Moline, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Wolf Co., Chambersburg, Pa.

### 6813—Rice & Coffee Hulling Machinery

Barnard & Leas Mfg. Co. (Rice Hullers for Mills & Plantations), Moline, Ill.
Blymyer Iron Works Co., Cincinnati, O.
Engelburg Huller Co., Syracuse, N. Y.
Mason, Marcus & Co., Produce Exchange, New York

### 6814— Rift Flooring Machines

Filer & Stowell Co. ("Cunningham," "Stowell"), Milwaukee, Wis.

### Rim Machines

(See Hub, Spoke & Rim Machinery)

### 6815— Rim Bending Machines

Defiance Machine Works, Defiance, O.

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### 6816—Rim Polishing Machines

Ohl, Geo. A. & Co. (Wheel Rims, etc.), 157 Oraton, Newark, N. J.

### 6817—Ring Forming Machines (Automatic)

**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel"), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 6818—Ring & Loop Machinery

Reed Mfg. Co., Springfield, O.
Special Machinery Co. (Automatic), Bridgeport, Conn.

### 6819— Rip Saw Machines

American Saw Mill Machinery Co., Hackettstown, N. J.
American Woodworking Machinery Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila, Pa.
Barnes, W. F. & Jno. Co. (Hand & Foot Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer Machine Works (Self Feed), 1845 Carroll av, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Garland, M. Co., Bay City, Mich.
Grammes, L. F. & Sons (Combination Rip & Cross Cut), Allentown, Pa.
Greenlee Bros. & Co. (Self Feed), Railway Exchange bldg., Chicago, Ill.
Hermance Machine Co. (Adjustable Roll Self-Feed), Williamsport, Pa.
Holmes, E. & B. Mach'y Co., Buffalo, N. Y.
Marston, J. M. & Co. (Foot Power), 228 Ruggles, Boston, Mass.
Mershon, Wm. B. & Co., Saginaw, Mich.
Ober Mfg. Co. (Self-Fed), Chagrin Falls, O.
Root, B. M. Co., York, Pa.
Power, L. & Co. (Self-Feed), Phila., Pa.
Sidney Tool Co. ("Defiance" for Wagon Makers), Sidney, O.
Sinker-Davis Co. ("Hoosier" Self-Feed), 230 S Missouri, Indianapolis, Ind.
Yerkes & Finan Woodworking Machine Co. (Iron Frame), St. Louis, Mo.

### 6820—Rivet Drilling Machines

**Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.**

### 6821—Rivet Heading Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co. (Automatic or Hand Feed), 3830 Lakeside av, N. E., Cleveland, O.
Blake & Johnson Co., Waterbury, Conn.
Manville, E. J. Mach'y Co., Waterbury, Conn.
National Machinery Co., Tiffin, O.
Cook, Asa S. Co. (New Patent Feed), 80 Huyshope av, Hartford, Conn.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 6822— Rivet Machinery

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co. (Automatic or Hand Feed), 3830 Lakeside av, N. E., Cleveland, O.
Blake & Johnson Co., Waterbury, Conn.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Draher, Jno., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
National Machinery Co., Tiffin, O.
Waterbury Farrel Foundry & Machine Co.

### 6823—Rivet Spinning Machines

**Grant Mfg. & Machine Co., Bridgeport, Conn.**
Greiner, Chas. Co., New Haven, Conn.

### 6824—Rivet & Hoop Applying Machines

**Tubular Rivet & Stud Co., Boston, Mass.**

### 6825—Rivet & Staple Setting Machines

Standard Rivet Co., 41 Lincoln, Boston, Mass.
Thomson, Judson L. Mfg. Co. (Automatic Driving & Setting), Waltham, Mass.

### 6826— Riveting Machines

(See also Pneumatic Riveters)

Chambersburg Engineering Co., Chambersburg, Pa.
Cincinnati Pulley Machy. Co. ("National" High Speed), Covington, Ky.
**COATES CLIPPER MFG. CO.** (Portable, Electric Driven), Worcester, Mass. (See adv. index, end of book)
**FEVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Grant Mfg. & Machine Co. (Motor & Belt Driven), Bridgeport, Conn.
Greiner, Chas. Co. (High Speed), New Haven, Conn.
Heath Foundry Mfg. Co. ("Plymouth Rock"), Plymouth, O.
Heartley Machine, Variety Iron & Tool Works (For Metal Wheels), Toledo, O.
**HILLES & JONES CO. (Power), East** Wilmington, Del. (See adv. index, end of book)
Hubbell, Harvey, Bridgeport, Conn.
**LONG & ALLSTATTER CO. (Belt or** Steam Driven), Hamilton, O. (See adv. index, end of book)
Metallic Specialty Mfg. Co. (Automatic), 1616 N 21st, Phila., Pa.
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL** Works (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Perkins Machine Co. (Power), Warren, Mass.
Rock River Machine Co. ("Badger," Stake), Janesville, Wis.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
**SHUSTER, F. B. CO. (Elastic Rotary** Blow, etc.), New Haven, Conn. (See adv. index, end of book)
Stimpson, Edwin B. Co. (Leather), 31 Spruce. New York
Townsend, H. P. Mfg. Co. (Multi-Blow High Speed), Hartford, Conn.
Whiting, Geo. Co. (Belt Power), 1701 Elston av,
Wickes Bros., Saginaw, Mich. Chicago, Ill.
Williams, White & Co., Moline, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

### 6827—Riveting Machines (Electric)

Hanna Engineering Works ("Ajax", Motor or Belt Driven, Bench, Pedestal, Portable & Hold-On), 2059 Elston, Chicago, Ill.
**MECHANICAL APPLIANCE CO.** ("Ajax"), Milwaukee, Wis. (See adv. index, end of book)

### 6828—Riveting Machines (Fire Door)

**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

### 6829— Riveting Machines (Hand)

Albree, Chester B. Iron Works Co., Pitts-
Arcade Mfg. Co., Freeport, Ill. burg, Pa
**CHICAGO PNEUMATIC TOOL CO.** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis Mfg. Co., Milwaukee, Wis.
**Heath Foundry & Mfg. Co. ("Plymouth Rock"), Plymouth, O.**
Smith, F. H. Mfg. Co. ("Best Yet," "Pomeroy," "Improved Sight Feed," "Pony," "Rex," "Simplex," Hand & Foot Power for Tubular or Bifurcated Harness & Shoe Riveting, etc.), 321 St. Johns ct, Chicago,
Williams, A. C., Ravenna, O. Ill.

### 6830—Riveting Machines (Hoop)

Smith, F. H. Mfg. Co. (Hand Power), 321 St. Johns, Chicago, Ill.
Strait, H. N. Mfg. Co., Kansas City, Kans.

### 6831—Riveting Machines (Hydraulic)

Albree, Chester B. Iron Works, N S, Pittsburg, Pa.
**Alliance Machine Co., Alliance, O.**
**Chambersburg Engineering Co., Chambersburg, Pa.**
**FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Macintosh, Hemphill & Co., ft. of 12th, Pittsburg, Pa.
**MORGAN ENGINEERING CO. (Solid** Stake, Loose Head; also Two-Piece Stake, etc.), Alliance, O. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1000 Hamilton, Phila., Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co. (Stationary & Portable), 400 Chestnut, Phila., Pa.
**Wood, W. H., Media, Pa.**

### 6832—Riveting Machines (Hydraulic Lifting)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

### 6833—Riveting Machines (Hydraulic Portable)

**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)

### Riveting Machines (Pneumatic)

(See Pneumatic Riveters)

### 6834—Riveting Machines (Portable)

(See also Pneumatic Riveters)

**MORGAN ENGINEERING CO. (Hydraulic), Alliance, O.** (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Wickes Bros., Saginaw, Mich.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.
Wood, Wm. H., Media, Pa.

### 6835—Riveting Machines (Rotary Blow)

Adt, Jno. & Son (Elastic), New Haven, Conn.

### 6836—Riveting Machines (Spoke)

Williams, White & Co., Moline, Ill.

### 6837—Riveting Machines (Steam)

**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Pusey & Jones Co., Wilmington, Del.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

### 6838—Riveting Machines (Wheel)

**LONG & ALLSTATTER CO. (Belt,** Motor or Steam Driven), Hamilton, O. (See adv. index, end of book)

### 6839— Road Making Machinery

(See Asphalt Machinery; Concrete Mixers; Ditching Machines; Plows, Contractors'; Road Machines & Graders; Road Scrapers, Drag & Wheel; Rock & Ore Crushers; Rollers, Steam Road)

(For all other Road Making Specialties see Index of Contents)

### 6840—Rock Drill Sharpening Machines

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Numa Rock Drill Sharpener Co. ("Numa"). Salt Lake City, Utah.

### 6841—Rocker Cut-Off Sawing Machines

**Connell & Dengler Machine Co., Rochester, N. Y.**

### 6842—Rod Heading Machines

Manville, E. J. Machine Co., Waterbury, Conn.
National Machinery Co., Tiffin, O.

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### 6843—Rod or Bar Drawing Machines

Brightman Mfg. Co., Columbus, O.
Morgan Construction Co., Worcester, Mass.
Waterbury Farrel Foundry & Machine Co. (Rod Drawing), Waterbury, Conn.

### 6844—Rod, Pin & Dowel Machines

**American Wood Working Machine Co.,** Ro-
Baker Bros., Toledo, O. chester, N. Y.
**Bentel & Margedant Co. (Power or Hand Feed), Hamilton, O.**
Cordesman, Rechtin Co., Cincinnati, O.
**Cowdrey, C. H. Machine Works, Fitchburg, Mass.**
**Fay, J. A. & Egan Co., Cincinnati, O.**
Frank Machinery Co., Buffalo N. Y.
Goodspeed Machine Co., Winchendon, Mass.
Jenkins Machine Co. (Dowel Boring Machines), Sheboygan, Wis.
Merritt Mfg. Co., Lockport, N. Y.
Pringle & Brodie Machinery Co., 514 S Canal, Chicago, Ill.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Trevor Mfg. Co., Lockport, N. Y.

### 6845—Rod & Tube Drawing Machines

**Richard Mfg. Co., Bloomsburg, Pa.**

### 6846—Rod & Tube Pointing Machines

Excelsior Needle Co., Torrington, Conn.
Morgan Construction Co., Worcester, Mass.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WRIGHT WIRE CO. (Rod Pointing),** Worcester, Mass. (See adv. index, end of book)

### 6847— Roll Covering Machines

Turner, J. S. Mfg. Co., Lowell, Mass.

### Roll Grinding Machines

(See Grinders, Roll)

### 6848—Roll Grooving Machines

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
**Pratt & Whitney Co., Hartford, Conn.**

### 6849—Roll Straightening & Finishing Machines

Brightman Mfg. Co., Columbus, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

### 6850—Roll Threading Machines

National Machinery Co. (Vertical), Tiffin, O.

### 6851a—Rolling Machines (Paper, Cloth, Leather, Etc.)

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6852— Rolling Mill Machinery

(See also Tin Plate Mill Machinery, Etc.)

**Aetna Foundry & Machine Co., Warren, O.**
**Allentown Rolling Mills, Allentown, Pa.**
**Alliance Machine Co., Alliance, O.**
**American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.**

ROLLING MILLS
Rolling Mill Machinery
CHILLED and SAND ROLLS
PRESSES--PUNCHES--SHEARS
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

**Atlas Car & Mfg. Co., Cleveland, O.**
**Bertsch & Co., Cambridge City, Ind.**
Bethlehem Steel Co., South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Birmingham Iron Foundry, Derby, Conn.
Blake & Johnson Co., Waterbury, Conn.
**Braddock Machine & Mfg. Co. (Bar, Sheet, Plate, Rod, Wire, Tin Plate & Mill Construction, Braddock, Pa.**
Bruce-Macbeth Engine Co., Cleveland, O.
Centre Foundry & Machine Co., Wheeling, W. Va.
Cleveland Machine & Mfg. Co., Cleveland, O.
Danville Foundry & Machine Co., Danville, Pa.
Davenport Foundry Machine Co., Davenport, Iowa.
**Farrel Foundry & Machine Co. (For Brass, Copper, Zinc, Brittania, etc.), Ansonia, Conn.**
**FAWCUS MACHINE CO. (Gears &** Special Machinery), 2820 Smallman, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Ferracute Machine Co. (For Coining Strips), Bridgeton, N. J.
Fischer Foundry & Machine Co., Ford City, Pa.
**FRASSE, PETER A. & CO. ("Poldi"** Alloy Steel Rolls), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Heppenstall Forge & Knife Co., Pittsburg, Pa.
**HILLES & JONES CO., East Wil-**mington, Del. (See adv. index, end of book)
Hyde Park Foundry & Machine Co., Hyde Park, Pa., & Frick bldg, Pittsburg, Pa.
Johnston & Jennings Co., Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
Lingle, J. H. Bellefonte, Pa.
Mackintosh, Hemphill & Co., ft 12th, Pitts-
Mesta Machine Co., Pittsburg, Pa. burg, Pa.
Morgan Construction Co., Worcester, Mass.
**MORGAN ENGINEERING CO., Alli-**ance, O. (See adv. index & branch offices, end of book)
National Roll & Foundry Co. (For Sheet & Tin Plate Mills), Avonmore, Pa.
Newbold, R. S. & Son Co., Norristown, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
Penna. Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Phillips & McLaren, Pitesburg, Pa.
Poole Engineering & Machine Co., Baltimore,
Reading Iron Co., Reading, Pa. Md.
**REEVES BROS. CO., Alliance, O. (See** adv. index, end of book)
Rosedale Foundry & Machine Co., N S, Pitts-burg, Pa.
Seaman Sleeth Co. (Sand & Chilled Rolls Only). Pittsburg, Pa.
Standard Engineering Works (To Order), Ell-wood City, Pa.
Standard Machinery Co., Providence, R. I.
Sterrit-Thomas Foundry Co., 32d & Smallman,
Stevenson Co., Wellsville, O. Pittsburg, Pa.
Tod, Wm. Co. (Engines, Mills, etc.), Youngs-town, O.
**TRETHEWEY, SAM'L & CO. (Ltd.),** 47th st, Pittsburg, Pa. (See adv. index, end of book)
Tyrone Foundry & Machine Co., Tyrone, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg. Pittsburg, Pa.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Weimer Machine Works Co., Lebanon, Pa.
Wellman-Seaver-Morgan Co., Cleveland, O.
Wheeling Mold & Foundry Co., Wheeling, W.
Wolf Co. (Inc.), Chambersburg, Pa. Va.
Youngstown Engineering Co., Youngstown, O.
Youngstown Foundry & Machine Co., Youngs-town, O.

### 6853— Roofing Machines

**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)

### 6854— Roofing Paper Machines

Haberkamp, Wm. Machine Works (Two or Three Ply), 424 Wells, Chicago, Ill.
Moore & White Co., 15th & Lehigh av, Phila., Pa.

### 6855—Roofing Tile Machinery

American Clay Machinery Co., Bucyrus, O.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Fate, J. D. Co., Plymouth, O.
Illinois Supply & Construction Co., St. Louis,
Mueller Bros., St. Louis, Mo. Mo.
Raymond, C. W. Co., Dayton, O.

### 6856—Rope Transmitting Machinery

(See also Power Transmitting Machinery)

Barnard & Leas Mfg. Co., Moline, Ill.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON, 17th &** Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., Allegheny av W of 17th, Pittsburg, Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Mach'y Co., Cuyahoga Falls, O.
Howard Iron Works, Buffalo, N. Y.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
**LINK BELT COMPANY (Manila Rope,** etc.), Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
**MINNEAPOLIS STEEL & MACHINE-**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moore & Lorenz Co., 2144 W Fulton, Chicago Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Stephens-Adamson Mfg. Co., Aurora, Ill.
Tamaqua Mfg. Co., Tamaqua, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E. North** av, Chicago, Ill. (See adv. index, end of book)
Wood's, T. B. Sons Co., Chambersburg, Pa.

### Rope & Twine Machinery

(See Cordage Machinery)

### 6857—Rosette & Corner Block Machines

**AMERICAN STEAM PUMP CO., Bat-**tle Creek, Mich. (See adv. index, end of book)
Pringle & Brodie Machinery Co., 514 S Canal, Chicago, Ill.
Valley City Machine Works, Grand Rapids, Mich.

### 6858—Rotary Printing & Rewinding Machines

Kidder Press Co., Dover, N. H.

### 6859—Round Cornering Machines

Southward Bros. ("The Sterling"), Portland, Me.

### 6860— Routing Machines

Bentel & Margedant Co., Hamilton, O.
Cordesman, Rechtin Co., Cincinnati, O.
**Kelley Electric Machine Co. ("Kelley" Electric Power), Buffalo, N. Y.**
Royle, Jno. & Sons (Inc.), Paterson, N. J.
Smith, H. B. Machine Co., Smithville, N. J.
Valley City Machine Works, Grand Rapids, Mich.

### 6861—Routing & Mortising Machines (Gang)

Bentel & Margedant Co., Hamilton, O.

### 6862—Rubber Band Cutting Machines

Adamson Machine Co., Akron, O.
Birmingham Iron Foundry, Derby, Conn.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)

### 6863—Rubber Belt Making Machinery

Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.

### 6864—Rubber Calendering Machines

Farrel Foundry & Machine Co., Ansonia, Conn.
Thropp, Wm. R. & Sons Co., Trenton, N. J.

### 6865—Rubber Grinding & Mixing Machines

Birmingham Iron Foundry, Derby, Conn.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Thropp, Wm. R. Sons Co., Trenton, N. J.

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### 6866—Rubber Hose Making Machines

Baker Machine Co., Trenton, N. J.
Birmingham Iron Foundry (For Rubber & Other Hose). Derby, Conn.
Royle, Jno. & Sons (Inc.), Paterson, N. J.

### 6867—Rubber Hose Wiring Machines

Baker Machine Co., Trenton, N. J.

### 6868— Rubber Mill Machinery

Adamson Machine Co., Akron, O.
American Tool & Machine Co. (Spreaders & Mixers), 109 Beach, Boston, Mass.
Bay State Machine Co., Erie, Pa.
Birmingham Iron Foundry, Derby, Conn.
Clark, Edred W. (For Making Carriage Tires, Wire Covering). Hartford, Conn.
Coleman, W. C. Co., Boston, Mass.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
Mackenzie's, Duncan Sons Co., Hamilton av, Trenton, N. J.
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Royle, John & Sons, Paterson, N. J.
**THROPP'S, JOHN E. SONS CO. (Complete** Line of Rubber Mill Machinery), ft of Lewis, Trenton, N. J. (See adv. index, end of book)
Thropp, Wm. R. Sons Co., Trenton, N. J.
Trenton Machine Specialty Co., Trenton, N. J.
**WERNER & PFLEIDERER, Saginaw,** Mich. (See adv. index, end of book)
Williams Foundry & Machine Co., Akron. O.

### 6869—Rubber Reclaiming Machinery

Birmingham Iron Foundry, Derby, Conn.
Royle, Jno. & Sons (Inc.), Paterson, N. J.

### 6870—Rubber Refining Machines

Farrel Foundry & Machine Co., Ansonia, Conn.
Thropp, Wm. R. Sons Co., Trenton, N. J.

### 6871—Rubber Shoddy Washing Machines

Baker Machine Co., Trenton. N. J.

### 6872—Rubber Strip Cutting Machines

New England Butt Co., Providence, R. I.
Trenton Machine Specialty Co., Trenton, N. J.

### 6873—Rubber Tire Applying Machinery

Enterprise Foundry ("Burlington," for Applying Carriage Tires), Harvey, Ill.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Williams Foundry & Machine Co., Akron, O.

### 6874— Rubber Tire Machines

Clark, Edred W. (Tubing, Tire & Electric, etc.), Hartford, Conn.
Royle, Jno. & Sons (Inc.), Paterson, N. J.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Williams Foundry & Machine Co., Akron, O.

### 6875—Rubber Tube Making Machines

Adamson Machine Co., Akron, O.
Bay State Machine Co., Erie, Pa.
Clark, Edred W., Hartford, Conn.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
Royle, Jno. & Sons, Paterson, N. J.
Textile Machine Works, Reading, Pa.
Trenton Machine Specialty Co., Trenton, N. J.

### 6876—Rubber Tubing Machines

Housatonic Machine & Tool Co., Bridgeport, Conn.

### 6877—Rubber Varnishing Machines

Birmingham Iron Foundry, Derby, Conn.

### 6878—Rubber Warming Machines

Thropp, Wm. R. Sons Co., Trenton, N. J.

### 6879—Rubber Washing Machines

Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Thropp, Wm. R. Sons Co., Trenton, N. J.
Turner, Vaughn & Taylor Co. (Tubs Only), Cuyahoga Falls, O.
Watson Machine Co., Paterson, N. J.

### 6880— Rule Cutting Machines

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)

### 6881— Ruling Machines

Blackhall Mfg. Co., Buffalo, N. Y.
Century Machine Co., Hoboken, N. J.
Hickox, W. C. Mfg. Co., Harrisburg, Pa.
Hope, John & Sons' Engraving & Mfg. Co., Providence, R. I.
McAdams, John & Sons, 978 Kent av, Brooklyn, N. Y.
Piper, E. G. (Paper), Springfield, Mass.
Royle, Jno. & Sons (Inc.) (Engravers), Paterson, N. J.
Wesel, F. Mfg. Co., 70 Cranberry, Brooklyn, N. Y.

### 6882— Saddle Seat Machines

Gardner Machine Works (E. N. & W. H. Hobby, Prop's). Gardner, Mass.

### 6883— Safety Pin Machinery

Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 6884— Salt Making Machinery

Bartlett, A. F. & Co., Saginaw, Mich.
**SCHULE, F. H. CO. (Automatic** Scale), 114-118 Liberty, New York. (See adv. index, end of book)

### 6885— Salt Well Machinery

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Bartlett, A. F. & Co., Saginaw, Mich.
Garland, M. Co., Bay City, Mich.
Great Western Mfg. Co. (For Salt Mills), Leavenworth, Kan.
Manistee Iron Works Co., Manistee, Mich.
Wilcox Engineering Co. (For Salt Works), Saginaw, Mich.

### 6886— Sand Blast Machines

American Diamond Blast Co., 50 Church, New
Betton, J. M. ("Drucklieb," Injector), 178 Wash'n, New York
Chester Engineering & Machine Co., Chester, Pa.
**CLAYTON AIR COMPRESSOR W'KS** (Air Sand Blasts), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farnham Sand Blast Co., 1 Madison av, New York
High Pressure Sand Blast Co. ("Kelly"), 20 Broad, New York
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Jorn, A., Jr. ("Jorn"), Waukegan, Ill.
**LAIDLAW-DUNN-GORDON CO. (Air** Sand Blasts), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Leiman Bros. (For Brass Workers, Jewelers, Blacksmiths, Platers, etc.), 2 John, New York
**MacLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Mott Sand Blast Mrf. Co., 24 Clinton, Chicago, Ill.
Nichols, D. M. Iron Works ("Danic"), Gouverneur & South, New York
Paxson, J. W. Co. ("Paxson-Warren" for Cleaning Steel & Castings), 1021 N Delaware av, Phila., Pa.
Pettinos Bros. ("Cyclone"), Bethlehem, Pa.
Sippel, Theo. A. (For Brass Workers, Nickel Platers, etc.), Newark, N. J.
Tilghman-Brooksbank Sand Blast Co. ("Tilghman," "Matthewson"), 1126 S 11th, Phila., Pa.

### 6886a—Sand Conveying Machinery for Continuous Molding

(See also Conveyors, Various Kinds)
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

### 6887— Sand Drum Machines

Bentel & Margedant Co., Hamilton, O.

### 6888—Sand-Lime Brick Machinery

(See also Brick Press Machines, Etc.)
**AMERICAN CLAY MACHINERY CO.,** Bucyrus, O., & Willoughby, O.
American Sand-Lime Brick Co., 77 Jackson boul, Chicago, Ill.


# Rubber Mill Machinery

## JOHN E. THROPP'S SONS CO.

## TRENTON, N. J.

**One Cure Open Steam Auto. Tire Molds**

**Machinery of Every Description Castings**


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American Sandstone Brick Machinery Co. ("Komnick"), Saginaw, Mich.
International Sand-Lime Brick Machinery Co., 90 West, New York
Jackson-Church-Wilcox Co., Saginaw, Mich.
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Wiebe Engineering Co. ("Wiebe"), 170 B'way, New York
Wilmington Iron Works (Mixers), Wilmington, N. C.

### 6889— Sand Mixing Machines

Auto Sand Mixer Co., Piqua, O.
Barbour-Stockwell Co. ("Boston"), Cambridge, Mass.
**CENTRAL IRON WORKS, Quincy,** Ill. (See adv. index, end of book)
Bilz Sand Mixing & Sifting Machine Co. (Mixing & Sifting), 1314 Findlay av, New York
Erie Machine Shops, Erie, Pa.
Frost Mfg. Co., Galesburg, Ill.
Gould & Eberhardt, Newark, N. J.
Hayden Automatic Block Machine Co., Columbus, O.
McCormick, J. S. Co., Pittsburg, Pa.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Paxson, J. W. Co., 1021 Delaware av, Phila., Pa.
Sand Mixing Machine Co. ("Auto"), 220 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Sly, W. W. Mfg. Co. ("Sly" Incorporator), Cleveland, O.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
**SMITH, T. L. CO., The, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
U. S. Chaplet & Supply Co., 140 Cedar, New York
Wadsworth Core Machine & Equipment Co., Akron, O.

### 6889a—Sand Mixing Machines (For Steel, Iron & All Kinds of Founders)

**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

### Sand Molding Machines

(See Molding Machines, Foundry)

### 6890—Sand Paper Making Machinery

Waldron, Jno. Co., New Brunswick, N. J.

### 6891— Sand Papering Machines

American Wood Working Machine Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Clemons Machine Co. ("Clemons" Belt Sander), Hornell, N. Y.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Driver, C. H., Racine, Wis
Eureka Sander Machine Co., Racine, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.
Grammes, F. L. & Sons, Allentown, Pa.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Jenkins Machine Co. (For Sanding the ends of Chair Seats, Etc.), Sheboygan, Wis.
Moore Carving Machine Co. ("Victor," "Imperial"), Minneapolis, Minn.
Nash, J. M. ("Nash" Automatic Sanders & Polishers), Milwaukee, Wis.
Oliver Machinery Co., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Redin, Ekstrom & Co. (Also Belt & Roller Sanders), Rockford, Ill.
Smith, H. B. Machine Co., Smithville, N. J.
White, Jno. A. & Co., Dover, N. H.
Winship Mfg. Co., Racine, Wis.

### Sand Sifting Machines

(See Sand Sifters)

### 6892— Sand Washing Machines

Bidwell, R. O., Sr., Dennisville, N. J.
Garrison, H. S., Cedarville, N. J.

### 6893—Sander & Boring Machines

Bentel & Margedant Co. (Flexible Arm), Hamilton, O.

### 6894—Sanding Machines (Picture Frame Moulding)

Oakley & Jansen Machinery Co., Parkersburg, W. Va.
Shawver Co. (Mitre Sander), Springfield, O.

### 6895—Sanding & Polishing Machinery

Bentel & Margedant, Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Bicknell Mfg. & Supply Co. ("Bicknell's" Belt), Janesville, Wis.
Fischer Machine Works (Double Disc Sander for Box Factories, etc.), 1845 Carroll av, Chicago, Ill.
Valley City Machine Works ("Champion" Bench Sander for Spindle Carvings), Grand Rapids, Mich.
West St. Louis Machine & Tool Co., 606 Manchester av, St. Louis, Mo.

### 6895a—Sanitary Can-Making Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

### 6896— Sash Chain Machines

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

### 6897—Sash, Door & Blind Machinery

American Woodworking Mach'y Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory, Rockford, Ill.
Hayes, E. B. Machine Co., Oshkosh, Wis.
Hendy, Joshua Machine Works, San Francisco, Cal.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. H.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

### 6898— Sash Grooving Machines

Smith & Phillips Mfg. Co., 412 N Sangamon, Chicago, Ill.

### 6899—Sash Trimmer Machines

Berlin Machine Works, Beloit, Mich.
Heald Machine Co. ("American" for Diamond & Irregular Sash), Worcester, Mass.

### 6900—Saturating Machinery for Paper Mills

Haberkamp, Wm. Machine Works, 424 Wells, Moore & White Co., Phila., Pa. Chicago, Ill.

### 6901—Sausage Making Machines

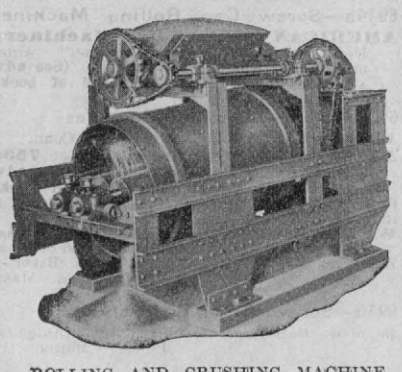
Smith's, Jno. E. Sons Co. ("Buffalo Silent"), Buffalo, N. Y.

### 6902—Saw Filing & Setting Machines

(See also File Room Machinery; also Band Saw Filing & Setting Machines)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Baldwin, Tuthill & Bolton ("Bolton" Filer), Grand Rapids, Mich.

When writing to firms whose names appear in this book please mention
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Chicago Saw Sharpening Machinery Co., 30 W Erie, Chicago, Ill.
**Bishop, Geo. H. & Co., Lawrenceburg, Ind.**
**Covel Mfg. Co. (Power Setting), Benton Harbor, Mich.**
Detrick & Harvey Machine Co., Baltimore, Md.
Edge, Frank & Co.
**Grimes & Harris (For Band Saws), Leominster, Mass.**
Hanchett Swage Works ("Hanchett," for Band Saws), Big Rapids, Mich.
**Hess Machine Works, 25th & Callowhill, Phila., Pa.**
**NEW BRITAIN MACHINE CO.** ("Equal Blow" Power Setting), New Britain, Conn.
**Nutter, Barnes & Co.** (Automatic), Boston, Mass.
**Rotary File & Machine Co. ("New Reliable" Automatic, for Circular Saws), 200 Diamond, Brooklyn, N. Y.**
**SIMONDS MFG. CO., Fitchburg,**
American Saw Mill Machinery Co., Hackettstown, N. J.
**Wright, Chas. E. & Co., Kenilworth, N. J.**

## 6903— Saw Fitting Machinery

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.

## 6904— Saw Making Machinery

Hess Machine Works (Saw Setting & Cutting Machines), 2512 Callowhill, Phila., Pa.

## 6905— Saw Mill Machinery

(See also Saw Mills, Various Kinds; also Shingle Mill Machinery; also Lath Mills & Bolters; also Lath & Picket Mills)

Abbott, D. S. Co., Olean, N. Y.
**Adams, W. T. Machine Co., Corinth, Miss.**
**Alabama Iron Works, Mobile, Ala.**
**Albany Iron Works, Albany, Ore.**
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Saw Mill Machinery Co., Hackettstown, N. J.
**Ashland Iron Works, Ashland, Ore.**
**Atlanta Machine Works, Atlanta, Ga.**
**Aultman & Taylor Machinery Co., Mansfield, O.**
**Baldwin, Tuthill & Bolton, Grand Rapids, Mich.**
**Barnard Mfg. Co., Spokane, Wash.**
**Bartlett, A. F. & Co., Saginaw, Mich.**
**Bartley, Wm. & Son, Bartley, N. J.**
**Bartlett-Tewksbury Machine Mfg. Co., Birmingham, Ala.**
**Burpee & Letson (Ltd.), Bellingham, Wash.**
**Challoner Co., Oshkosh, Wis.**
**Chambersburg Engineering Co., Chambersburg, Pa.**
**Chandler & Taylor Co., Indianapolis, Ind.**
**Chapman, T. M. Sons Co., Old Town, Me.**
**Chase Turbine Mfg. Co., Orange, Mass.**
**Chattanooga Machine Co., Chattanooga, Tenn.**
**Chickasaw Iron Works, Memphis, Tenn.**
**Clark Bros. Co., Belmont, N. Y.**
**Cole Mfg. Co., Lakeport, N. H.**
**Columbia Engineering Works, Portland, Ore.**
**Columbian Iron Works ("Columbian"), Chattanooga, Tenn.**
**Corinth Engine & Boiler Works, Corinth, Miss.**
**Curtis & Co., Mfg. Co., St. Louis, Mo**
**Diamond Iron Works (Full Line), Minneapolis,**
**Dubois Iron Works, Dubois, Pa. Minn.**
**Enterprise Mfg. Co., Columbiana, O.**
**Farquhar, A. B. Co. (Ltd.), York, Pa.**
**Filer & Stowell Co., Milwaukee, Wis.**
**Frick Co., Waynesboro, Pa.**
**Gaar, Scott & Co., Richmond, Ind.**
**Gainesville Iron Works, Gainesville, Ga.**
**Garland, M. Co., Bay City, Mich.**
**Geiser Mfg. Co., Waynesboro, Pa.**
**Georgia Iron Works, Augusta, Ga.**
**Giddings & Lewis Mfg. Co., Fond du Lac, Wis.**
**Heilman Machine Works, Evansville, Ind.**
**Hench & Dromgold Co., Inc., York, Pa.**
**Henderson, W. K., Iron Works & Supply Co., Shreveport, La.**
**Hendy, Joshua Machine Works, San Francisco, Cal.**
**Hill, W. B. & Co., Kalamazoo, Mich.**
**Howell, R. B. & Co., Minneapolis, Minn.**
**Humphrey Machine Co., Keene, N. H.**
**International Endless Chain Saw Co., 34 University pl, New York**
**Kehoe Iron Works, Savannah, Ga.**
**Kline, Lewis T., Alpena, Mich.**
**Knight Mfg. Co., Canton, O.**
**Lake Shore Engine Works, Marquette, Mich.**
**Lane Mfg. Co., Montpelier, Vt.**
**Lexington Engine & Saw Mill Works, Lexington, Ky.**
**Liddell Co. (Inc.), Charlotte, N. C.**
**Lufkin Foundry & Machine Co., Lufkin, Tex.**
**Lombard Iron Works & Supply Co., Augusta, Ga.**
**Lyon Iron Works, Greene, N. Y.**
**McDonough Mfg. Co., Eau Claire, Wis.**
**Mallary Bros. Machinery Co., Macon, Ga.**
**Manistee Iron Works, Manistee, Mich.**
**Mecklenburg Iron Works, Charlotte, N. C.**
**Memphis Machine Works, Memphis, Tenn.**
**Mitts & Merrill, Saginaw, Mich.**
**Moltz, Jacob J., Williamsport, Pa.**
**Murray, D. J. Mfg. Co., Wausau, Wis.**
**Murray Iron Works Co., Burlington, Ia.**
**Myrick Machine Co., Olean, N. Y.**
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
**Phoenix Iron Works, Portland, Ore.**
**Phoenix Mfg. Co., Eau Claire, Wis.**
**Port Huron Engine & Thresher Co., Port Huron, Mich.**
**Portland Iron Works, Portland, Ore.**
**Robinson & Co., Richmond, Ind.**
**Russell & Co., Massillon, O.**
**Salem Iron Works, Winston Salem, N. C.**
**Sinker-Davis Co., Indianapolis, Ind.**
**Smith-McDonough Co., Portland, Ore.**
**Smith, Myers & Schnier Co., Cincinnati, O.**
**Southern Engine & Boiler Works (Inc.), Jackson, Tenn.**
**Soule Steam Feed Works (Steam Feeds, Dogs, Dollies, Stackers, Conveyors, etc.), Meridian, Miss.**
**Standard Saw Mill Machinery Co., Erie, Pa.**
**Stearns Co., Erie, Pa.**
**Stellman, L. H. & Son, Brattleboro, Vt.**
**Sumner Iron Works, Everett, Wash.**
**Trevor Mfg. Co. (Short Log), Lockport, N. Y.**
**Union Iron Works, Bangor, Me.**
**Vulcan Iron Works, 604 Mission, San Francisco, Cal.**
**Vulcan Iron Works Co., Seattle, Wash.**
**Wheland Machine Works, Chattanooga, Tenn.**
**Wickes Bros., Saginaw, Mich.**
**Wilkin-Challoner Co., Oshkosh, Wis.**
**Wisconsin Engine Co., Corliss, Wis.**

## 6906—Saw Mill Machinery (Elevating & Conveying)

**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill.** (See adv. index & branch offices, end of book)

## Saw Setting Machines

(See Saw Filing & Setting Machines; also Band Saw Filing & Setting Machines; also File Room Machinery)

## 6907—Saw Sharpening Machines

(See also Sharpeners, Saw; also Band Saw Filing & Setting Machines; also Saw Filing & Setting Machines)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Berlin Machine Works, Beloit, Wis.
Chicago Saw Sharpening Machinery Co., 30 W Erie, Chicago, Ill.
Cochrane-Bly Co. (For Metal Saws), Rochester

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

**Covel Mfg. Co. (For Automatic Band, Gang, Circular & Metal Saws, etc.), Benton Harbor, Mich.**
Crown Iron Works Co. ("Blackmer"), Minneapolis, Minn.
Diamond Machine Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Espen-Lucas Machine Works (Power, Automatic), 342 N 15th, Phila., Pa.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**Higley Machine Co., Croton Falls, N. Y.**
**Hunter Saw & Machine Co., Pittsburg, Pa.**
**Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.**
Nutter & Barnes Co. (14 to 30-in. Automatic), 326 A, Boston, Mass.
**Q. M. S. Co., Plainfield, N. J.**
**Rogers, Sam'l C. & Co. ("Buffalo" Band & Circular), 10 Lock, Buffalo, N. Y.**
**Rotary File & Machine Co. (Automatic for Band & Circular Saws), 200 Diamond, Brooklyn, N. Y.**

## 6908—Saw Stretching Machines

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Berlin Machine Works, Beloit, Wis.
Chicago Saw Sharpening Machinery Co., 30 W Erie, Chicago, Ill.
Covel Mfg. Co., Benton Harbor, Mich.
Hanchette Swage Works, Big Rapids, Mich.

## 6909—Saw & Chuck Machines

Nash, J. M. ("Nash" Automatic), Milwaukee, Wis.

## 6910— Scarfing Machines

Mitts & Merrill (Band Saw), Saginaw, Mich.
**United Engineering & Foundry Co. (Movable Motor Driven for Pipe & Tube Mills), Pittsburg, Pa.**

## 6910a— Scouring Machines

**CROSSLEY MACHINE CO. (For Pot**teries), State & Monmouth, Trenton, N. J. (See adv. index, end of book)

## 6911— Scow Machinery

Superior Iron Works Co., Superior, Wis.

## 6912—Scrap Reclaiming Machines

Ajax Mfg. Co., 3830 Lakeside, N. E., Cleveland, O.

## 6913— Screening Machinery

Batavia Engineering Works, Batavia, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
Stephens-Adamson Mfg. Co., Aurora, Ill.
**WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill.** (See adv. index & branch offices, end of book)

## 6914—Screw Blank Heading Machines

Manville, E. J. Machine Co., Waterbury, Conn.

## 6914a—Screw Cap Rolling Machines

**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel" Automatic), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)

## 6915—Screw Cutting Machines

Automatic Machine Co., Bridgeport, Conn.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Potter & Johnson Machine Co., Pawtucket, R. I.
Rivet-Dock Co., Boston, Mass.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 6916—Screw Driving Machines

Reynolds Pattern & Machine Co. (Automatic Power), Moline, Ill.

## 6917—Screw Heading Machines

Cook, Asa S. Co., Hartford, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.

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### 6918— Screw Machines
(See also Lathes, Turret)

Acme Machine Tool Co., Cincinnati, O.
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co. (Plain, Wire Feed, Automatic, etc.), Providence, R. I.
Cleveland Automatic Machine Co. (Automatic), 131 2d av, Cleveland, O.
Dreses Machine Tool Co., Cincinnati, O.
Davis Sewing Machine Co. ("Lester" Multiple Spindle, Automatic), Dayton, O.
Fay & Scott (Hand), Dexter, Me.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
Hartford Machine Screw Co. (Automatic. Threading), Hartford, Conn.
Jones & Lamson Machine Co., Springfield, Vt.
Landis Machine Co., Waynesboro, Pa.
Meriden Machine Tool Co., Meriden, Conn.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL WKS.,** (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co. (Automatic), 111 B'way, New York
Pratt & Whitney Co. (Automatic Shaping), Hartford, Conn.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Smurr & Kamen Machine Co. (Plain Head), 313 Sacramento ct, Chicago, Ill.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Warner & Swasey Co. (Turret), Cleveland, O.
Windsor Machine Co. ("Gridley" Automatic), Windsor, Vt.
Wood Turret Machine Co. (Tilted Turret), Brazil, Ind.

### 6919—Screw Machines (Automatic)
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
Cleveland Automatic Machine Co., Cleveland, O.
Davenport Machine Tool Co. (Multiple Spindle), New Bedford, Mass.
Davis Sewing Machine Co., Dayton, O.
Hartford Machine Screw Co. (Turning & Threading), Hartford, Conn.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
National Sewing Machine Co., Belvidere, Ill.
Peerless Automatic Machine Co., Cleveland, O.
Pratt & Whitney Co. (With Magazine Attachment, etc.), Hartford, Conn.
Universal Machine Screw Co. ("Universal," 5 Spindle), Hartford, Conn.
Wells, F. E. & Son Co., Greenfield, Mass.
Windsor Machine Co. ("Gridley"), Windsor, Vt.

### 6920—Screw Machines (Gimlet Pointing)
Manville, E. J. Machine Co., Waterbury, Conn.
National Machinery Co., Tiffin, O.
Pawtucket Mfg. Co., Pawtucket, R. I.

### 6921—Screw Machines (Hand)
Bardons & Oliver, Cleveland, O.
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
Dreses Machine Tool Co., Cincinnati, O.
Fay & Scott, Dexter, Me.
Foster Machine Co., Elkhart, Ind.
Garvin Machine Co., Spring & Varick, New York
Pratt & Whitney Co., Hartford, Conn.
Warner & Swasey Co., Cleveland, O.
Wells, F. E. & Son Co., Greenfield, Mass.

### 6921a—Screw Machines (Multiple Spindle)
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)

### 6922—Screw Machines (Sheet Metal)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

### 6922a—Screw Making Machines (Automatic)
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)

### 6923—Screw Polishing Machines
Brown & Sharpe Mfg. Co., Providence, R. I.

### 6924— Screw Shaving Machines
Brown & Sharpe Mfg. Co., Providence, R. I.
Garvin Machine Co., 137 Varick, New York
Manville, E. J. Machine Co. (Shaving & Slotting Combined), Waterbury, Conn.
Pawtucket Mfg. Co., Pawtucket, R. I.
Potter & Johnson (Shaving & Turning), Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.

### 6925— Screw Slotting Machines
(See also Slotting Machines)

Brown & Sharpe Mfg. Co., Providence, R. I.
Davis Sewing Machine Co. ("Lester" Three Spindle Automatic), Dayton, O.
Garvin Machine Co., 137 Varick, New York.
Grant Mfg. & Machine Co., Bridgeport, Conn
Hartford Machine Screw Co., Hartford, Conn.
Hubbell, Harvey, Bridgeport, Conn.
Manville, E. J., Machine Co., Waterbury, Conn.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Pratt & Whitney Co., Hartford, Conn.
Taylor & Fenn Co. (Automatic, 15,000 to 18,000 Screws a Day), Hartford, Conn.
Waterbury Farrel Foundry & Machine Co. (Automatic), Waterbury, Conn.

### 6925a—Screw Spike Driving Machines
Greenlee Bros. Co., 9 Jackson boul, Chicago, Ill.

### 6926—Screw Thread Rolling Machines
Blake & Johnson Co., Waterbury, Conn.
Leffler, Chas. & Co. (For Sheet Metal Screws, etc.), 63 Clymer, Brooklyn, N. Y.
Manville, E. J. Machine Co. (Automatic), Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

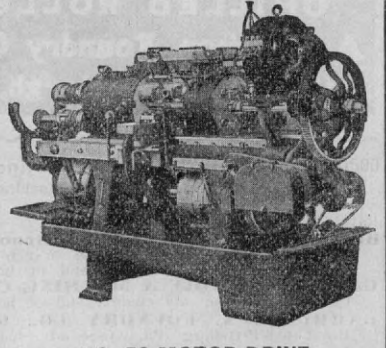
### 6927— Scroll Sawing Machines
American Woodworking Mach'y Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Grays Ferry rd, Phila, Pa.
Barnes, W. F. & Jno. Co. (Foot & Power), Rockford, Ill.
Beach Mfg. Co., Montrose, Pa.
Bentel & Margedant Co., Hamilton, O.
Colladay, Jos. O., 624 Race, Phila., Pa.
Cordesman, Rechtin Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Power, L. & Co., 20 S 23d, Phila., Pa.
Seneca Falls Mfg. Co. ("Victor," Foot & Power), Seneca Falls, N. Y.
Seymour & Whitlock, Newark, N. J.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

### 6928— Scythe Rolling Machines
Birmingham Iron Foundry, Derby, Conn.

### 6928a— Sealing Machinery
Johnson Automatic Sealer Co., Battle Creek, Mich.

### 6929— Seaming Machines
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.** (Power, for Long Length Pipe), Canton, O. (See adv. index, end of book)

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NO. 56 MOTOR DRIVE

THE ACME AUTOMATIC

MULTIPLE SPINDLE SCREW MACHINE performs all the operations on the piece (up to eight or more) in the time required for the longest cut. There are four spindles, the machine is driven by **one belt** (or motor) and controlled by **one lever.** Built in sizes from ¼ to 2¼" chuck and 2½ to 10½" feed. The method is rapid, accurate and economical

THE NATIONAL-ACME MFG. CO., CLEVELAND, OHIO

NEW YORK, 77 White St.; BOSTON, 141 Milk St.; DETROIT, 1222 Majestic Bldg.; CHICAGO, 549 Washington Blvd.; ATLANTA, Candler Bldg.; MONTREAL, Canada.
Foreign Representatives, A. H. Schutte, Schuchardt & Schutte.

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### 6930—Seat Back Bending Machinery

Bentel & Margedant Co., Hamilton, O.

### Seine Making Machinery

(See Netting Machines)

### 6931—Separating Machinery (Cotton Seed)

Buckeye Iron & Brass Works, Dayton, O.

### 6932— Sewer Cleaning Machines

Healey Sewer Machine & Construction Co., 21 Park row, New York
Northern Mfg. Co. ("Kuhlman"), Hammond, Ind.
Shannon, J. H. & R. Co. ("Shannon"), 538 Bergen av, Jersey City, N. J.

### 6933— Sewer Pipe Machinery

American Clay Machinery Co., Bucyrus, O.
Besser Mfg. Co., Alpena, Mich.
Freese, E. M. & Co., Galion, O.
Means Engineering & Foundry Co., Toronto, O.
Stevenson Co., Wellsville, O.
Taplin-Rice-Clerkin Co., Akron, O.
Turner, Vaughan & Taylor Co., Cuyahoga Falls, Ohio

### 6934—Sewer & Trench Excavating Machines

Bucyrus Co. (Steam Shovel Type), South Milwaukee, Wis.
Carson French Machine Co., 16 Dorrance, Boston, Mass.
Fairbanks Steam Shovel Co., Marion, O.
Heffron Trenching Co. ("Heffron" Trenching Machines), Cleveland, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Municipal Engineering & Contracting Co. ("Chicago"), R'y Exch bldg, Chicago, Ill.
Noble, H. A. (Odorless Excavating), 203 Dock, Phila., Pa.
Parsons, G. W. Co. ("Parson's" Newton, Ia.
Potter Mfg. Co., Indianapolis, Ind.

### Sewing Machines

(For Page Number, Consult Index of Contents)

### 6940—Shading Machines (Lithographers' & Photo-Engravers')

American Shading Machine Co., 164 Rans, Buffalo, N. Y.

### 6941— Shaft Boring Machines

Pratt & Whitney Co., Hartford, Conn.

### 6942—Shaft Polishing Machines

Brightman Mfg. Co., Columbus, O.

### 6943—Shaft Straightening Machines

Brightman Mfg. Co., Columbus, O.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Fitchburg Machine Works (Shaft, etc.), Fitchburg, Mass.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Logemann Bros. Co. ("Logemann." Hydraulic Shaft & Pipe Straightener), Milwaukee, Wis.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.) (Hand or Power), 1600 Hamilton, Phila., Pa
Springfield Machine Tool Co., Springfield, O.
**WATSON-STILLMAN CO. (Hydraulic),** 30 Church, New York. (See adv. index, end of book)

### Shaft Turning Machines

(See Lathes, Shaft Turning)

### 6944— Shafting Machinery

Brightman Mfg. Co., Columbus, O.
Franklin Machine Co., Providence, R. I.

### 6945—Shaping Machines for Steel Foundries

Wetherill, R. & Co., Chester, Pa.

### 6946—Shaping Machines (Metal)

American Tool Works Co. (Crank & Geared), Cincinnati, O.
Barker, Wm. & Co. (Crank & Geared), cor Pioneer & Culvert, Cincinnati, O.
Boynton & Plummer (Hand & Power), Worcester, Mass.
Cincinnati Shaper Co. (Crank, Geared, Traverse & Open Side), Cincinnati, O.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Fellows Gear Shaper Co. (Gear), Springfield, Vt.
Fitchburg Machine Works, Fitchburg, Mass.
Flather & Co., Nashua, N. H.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
Gould & Eberhardt (Double Triple Quick Stroke, Extension Base Shaper), Newark, N. J.
Hamilton Machine Tool Co. (16, 20 & 24-inch). Hamilton, Ohio
Hendey Machine Co. (Pillar), Torrington, Conn.
Juengst, Geo. & Sons (Crank), Croton Falls, N. Y.
Queen City Machine Tool Co. (Back Geared Crank Shaft, etc.), Cincinnati, O.
Kelly, R. A. Co. (Crank), Xenia, O.
Lutter & Gies ("Milwaukee," 16 & 24-inch Back Geared Crank Shapers), Milwaukee, Wis.
Morton Mfg. Co. (Draw Cut), Muskegon Heights, Mich.
Newark Gear Cutting Mach. Co., Newark, N. J.
New Haven Mfg. Co., New Haven, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Perkins Machine Co. (Friction), Warren, Mass.
Potter & Johnson Machine Co. (Universal), Pawtucket, R. I.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Queen City Machine Tool Co., Cincinnati, O.
Reed, J. B. (Triple Gear, etc.), Cairo, Ill.
Rhodes, L. E. (Crank), Hartford, Conn.
Rockford Machine Tool Co. ("Rockford," Single Geared Crank, Back Geared Crank, etc.), Rockford, Ill.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Shepard Lathe Co., 129 W 2d, Cincinnati, O.
Smith & Mills (Crank & Geared), Cincinnati, O.
Springfield Machine Tool Co. (Crank & Geared), Springfield, O.
Steptoe, Jno. Shaper Co. (Crank & Geared), Cincinnati, O.
Stockbridge Machine Co. (Two-Piece Crank & Geared Drive), Worcester, Mass.
Walcott & Wood Machine Tool Co. (15, 22, 26, 30, 34 & 48-inch Geared & 16 & 18-inch Elliptical Gear Crank Shaper, with Back Gear; also 20 & 24-inch Elliptical Gear Crank), Jackson, Mich.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

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### 6947— Shaping Machines (Wood)

(See also Wood Carving Machines)

Advance Machinery Co., Toledo, O.
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
American Woodworking Machinery Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila, Pa.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Colladay, Joseph O., 656 Race, Phila., Pa.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Crescent Machine Co., Scetonia, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hayes, E. B. Machine Co. (Single & Double End), Oshkosh, Wis.
Heath, W. A. Machine Co., Lestershire, N. Y.
Jenkins Machine Co. (Two Spindle Vertical Shaper), Sheboygan, Wis.
Klotz Machine Co., Sandusky, O.
Ober Mfg. Co. (Combined Shaper, Saw & Jointer), Chagrin Falls, O.
Porter, C. O. Machinery Co., Grand Rapids,
Power, L. & Co., 20 S 23d, Phila., Pa. Mich.
Smith, H. B. Machine Co., Smithville, N. J.
Whitney, Baxter D. & Son (Double Spindle), Winchenden, Mass.
Yerkes & Finan Woodworking Machine Co. (Double Spindle Shaper, etc.), St. Louis, Mo.

### 6947a—Shear Knife Grinding Machinery

**TRETHEWEY, SAM'L & CO. (Ltd.),** 47th st, Pittsburg, Pa. (See adv. index, end of book)

### 6948—Sheep Shearing Machines

American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.
**CHICAGO FLEXIBLE SHAFT CO.** ("Stewart," Ball Bearing), 81 Lasalle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**COATES CLIPPER MFG. CO.** ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)
Gillette Clipping Machine Co., 110 W 32d, New York
Goes, Oscar & Co. ("Allen" & "Pioneer-American"), 121 N Canal, Chicago, Ill.

### 6949—Sheet Lead Rolling Machines

Farrel Foundry & Machine Co., Ansonia, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

ROLLING MILL MACHINERY
For Non-Ferrous Metals
CHILLED ROLLS
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

### 6950—Sheet Metal Forming Machinery

(See also Sheet Metal Workers' Machines & Tools)

Baird Machine Co., Oakville, Conn.
**BLISS, E. W. CO., 19 Adams, Brook**lyn, N. Y. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

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### 6951—Sheet Metal Lath Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

### 6952—Sheet Metal Molding Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6953—Sheet Metal Workers' Machines & Tools

(See also Punching Machines, Various Kinds; also Presses, Various Kinds; also Shears, Various Kinds)
Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
Armor-Clad Mfg. Co., Canton, O.
Ayars Machine Co., Salem, N. J.
Berger Bros. Co., 237 Arch, Phila., Pa.
Bertsch & Co., Cambridge City, Ind.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Brown, F. S. & G. L. Machine Co., Baltimore, Md.
Burritt, O. W. & Bros., Weedsport, N. Y.
**CANTON FOUNDRY & MACHINE CO.,** ("Universal"), Canton, O. (See adv. index, end of book)
Consolidated Press & Tool Co., Hastings, Mich.
Double Truss Cornice Brake Co., Buffalo, N. Y.
Dreis & Krump Mfg. Co., 2911 S Halsted, Chicago, Ill.
Eclipse Machine Co. ("Eclipse," Gutter Beading & Forming Machines), Troy, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Heartley Machine, Variety Iron & Tool Wks., Toledo, O.
Keene, Geo. C. & Co., Cincinnati, O.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.
Lethwaite, T. H., 413 E. 31st, New York.
Loy & Nawrath Co., Newark, N. J.
Michigan Machinery Mfg. Co., Ypsilanti, Mich.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
Packham Crimper Co., Mechanicsburg, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Perkins Machine Co., Warren, Mass.
Pocock, Oliver (Forming Machine), 1042 Harriet, Cincinnati, O.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Robinson, J. M. Mfg. Co., Cincinnati, O.
Slaysman & Co., Baltimore, Md.
Swaine, Fred. J. Mfg. Co., 1300 N 7th, St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
United Shoe Machinery Co., 205 Lincoln, Boston, Mass. Works: Beverly, Mass.
V. & O. Press Co., Glendale Station, Long Island, N. Y.
Verdin, Kappes & Verdin, Cincinnati, O.
Weiss, H. & Co., 20 Cliff, New York
Whelan, D. J. (Est. of), Troy, N. Y.
Wold, Torris & Co., 218 N Jefferson, Chicago, Ill.
Zeh & Hahnemann, Newark, N. J.

### 6954— Sheet Mill Machinery

(See also Rolling Mill Machinery)
Aetna Foundry & Machine Co., Warren, O.
Braddock Machine & Mfg. Co., Braddock, Pa.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO.** (Shears & Levelers), East Wilmington, Del. (See adv. index, end of book)
National Roll & Foundry Co., Avonmore, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

### 6955—Sheet Pasting Machines

Blessing, Louis (For Strawboard or Pulp Sheet Pasting), Jackson, Mich.

### Sheet Pile Driving Machines

(See Pile Drivers, Sheet)

### 6956—Sheeting Machines (Paper, Cloth, Leather, Etc.)

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 6957— Shingle Mill Machinery

Abbott, D. S. Co., Olean, N. Y.
Adams, S. & Son (Saw & Shingle Mill Machinery), Rome, N. Y.
Adams, W. T. Machine Co., Corinth, Miss.
American Sawmill Machinery Co. ("American" & "Climax"), Hackettstown, N. J. Hackettstown, N. J.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Bolton Lath & Shingle Machinery Co., Minneapolis, Minn.
Butterworth & Lowe, Grand Rapids, Mich.
Challoner's, Geo. Sons Co., Oshkosh, Wis.
Chase Turbine Mfg. Co., Orange, Mass.
Curtis & Co. Mfg. Co. ("Dixie"), St. Louis, Mo.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Filer & Stowell Co., Milwaukee, Wis.
Georgia Foundry & Machine Works, Rome, Ga.
Gerlach, Peter Co., Cleveland, O.
Gibbs Machinery Co., Columbia, S. C.
Hendy, Joshua Machine Works, San Francisco, Cal.
Howell, R. R. & Co., Minneapolis, Minn.
Lane Mfg. Co., Montpelier, Vt.
Lovell, F. S. Machine Works, Fitchburg, Mass.
Lyon Iron Works ("Ireland"), Greene, N. Y.
Murray, D. J. Mfg. Co., Wausau, Wis.
Novelty Iron Works (G. E. Davis, Prop.), ("Triumph," "Evarts"), Dubuque, Iowa
Perkins & Co., Grand Rapids, Mich.
Phoenix Mfg. Co., Eau Claire, Wis.
Rochester Barrel Machine Works, Rochester, N. Y.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Street Bros. Machine Works, Chattanooga, Tenn.
Sumner Iron Works, Everett, Wash.
Trevor Mfg. Co., Lockport, N. Y.
Union Iron Works, Bangor, Me.
United States Machine Co., Williamsport, Pa.
Vulcan Iron Works Co., Seattle, Wash.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.
Wilkin-Challoner Co., Oshkosh, Wis.

### 6958— Ship Building Machinery

**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)

### 6959— Shoe Machinery

Adams, Jno. J., Worcester, Mass.
Allen Machine Co., Haverhill, Mass.
Bartlett, E. E., 326 A, Boston, Mass.
Booth Bros. Co., Rochester, N. Y.
Bresnahan Shoe Machinery Co., Lynn, Mass.
Carver Cotton Gin Co., East Bridgewater, Mass.
Champion Shoe Machinery Co. (Wax Thread Sewing or Stitching Machine, etc.), St. Louis, Mo.
Cilley, W. W. & Co. (Stitchers), Lynn, Mass.
Essex Machine Co., Lynn, Mass.
Freeman, Louis G., 212 E 9th, Cincinnati, O.
Freeman & Duckworth, Lawrence, Mass.
Heald Machine Co. (Crimping Machines), Worcester, Mass.
Keighley, Wm. B., Vineland, N. J.
Lufkin, R. H. (Vamp Marking Machines), 38 Chardon, Boston, Mass.
Mitchell, Robert Machinery Co. (Electrical Shoe Ironers, Wax Pots, etc.), 11 Jefferson av, Detroit, Mich.
Rogers, John F. (Vamp Marking Machines), Belfast, Me.
Ross-Moyer Mfg. Co. (Heel Building Machines), Cincinnati, O.
Seelye Mfg. Co., 118 South, Boston, Mass.
Shrines, Hannah A., Lynn, Mass.
Specialty Shoe Machinery & Tool Co., St. Joseph, Mo.
Stanbon, Chas. P. & Co., Lynn, Mass.
Stewart Bros., Lynn, Mass.
Stimpson, Edwin B. Co., (& Supplies), 31 Spruce, New York
Stanley Co., Lawrence, Mass.
Tower Bros., Hudson, Mass.
United Shoe Machinery Co., 205 Lincoln, Boston, Mass.
Wellman Co., Medford, Mass.
Young, W. J. Machine Co., Lynn, Mass.

### 6960— Shoe Nailing Machines

Champion Shoe Machinery Co., St. Louis, Mo.
Specialty Shoe Mach'y & Tool Co. ("Crowe"), St. Joesph, Mo.
United Shoe Machinery Co. ("Pettingill"), Boston, Mass.

### 6961— Shoe Peg Machinery

Cowdrey & Co., Fitchburg, Mass.
Humphrey Machine Co., Keene, N. H.

### 6962—Shoe Shining Machines (Automatic)

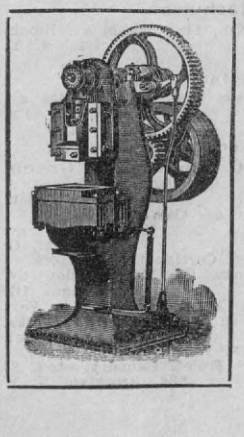
Westmoreland Automatic Machine Co., Irwin, Pa.

### 6963— Shoe Stitching Machines

Champion Shoe Machinery Co., St. Louis, Mo.

### 6964—Shop Sawing Machines (Iron)

(See Cold-Saw Cutting-Off Machines; also Hot Sawing Machines; also Rail Sawing Machines)

# Machinery for Working Sheet Metal

**PRESSES DIES PUNCHES**

**Tinsmiths' Tools & Machines—Squaring, Rotary & Lever Shears**

OUTFITS FOR MAKING ARTICLES OF SHEET METAL

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# NIAGARA MACHINE & TOOL WORKS

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6965— Shot Machines
Fanning, J. P., 678 Jefferson av, B'klyn, N. Y.

6966—Shovel Handle Machinery
**UNION FOUNDRY & MACHINE CO.** (Handle Forming & Bending), Pittsburg, Pa. (See adv. index, end of book)

6967— Shovel Machinery
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO. (Sheet Metal),** Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Frankford Foundry & Machine Works, Frankford, Phila., Pa.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
West St. Louis Machine & Tool Co. (Also Sanding & Polishing Machines), 606 Manchester av, St. Louis, Mo.

6968— Shuttle Machinery
Carey, W. W. Co., Lowell, Mass.

6969— Side Sawing Machines
Connells & Dengler Machine Co. (Self Centering, etc.), Rochester, N. Y.

6970— Sieve Machines
Wolf Co., Chambersburg, Pa.

6971— Sifting Machinery
**CROSSLEY MACHINE CO. (For Wet** Clay), State & Monmouth, Trenton, N. J. (See adv. index, end of book)
**ESTEY WIRE WORKS CO. (For** Any Material), 59 Fulton, New York. (See adv. index, end of book)
Great Western Mfg. Co. (For Flour Mills), Leavenworth, Kans.
Nordyke & Marmon, Indianapolis, Ind.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

6972— Sizing Machines
United Engineering & Foundry Co. (For ⅝ to 4-inch Butt Wind Pipe), Farmers' Bank bldg, Pittsburg, Pa.

6973—Sizing or Spooling Machines
Lang, E. M. Co. (Canners), Portland, Me.

6974—Skidding Machines (Steam Log Skidders)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

6975—Skiving Machines (Strawboard)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

6975a—Slab Slashing Machines
**LINK BELT COMPANY (Gang, etc.),** Hunting Park av. & Reading Ry, Phila, Pa. (See adv. index & branch offices, end of book)

6976— Slabbing Machines
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Slack Barrel Machinery
(See Barrel, Keg, Stave & Heading Machinery)

6977—Slag & Cinder Machines
Heyl & Patterson (For Blast Furnaces), Pittsburg, Pa.

6978—Slate Dressing Machines
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)

6979—Slate Drilling & Countersinking Machines
**FLORY S. MFG. CO. ("Flory" Power),** Bangor, Pa. (See adv. index, end of book)

6980— Slate Grooving Machines
**FLORY S. MFG. CO. (Hand Power),** Bangor, Pa. (See adv. index, end of book)

6981— Slate Machinery
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Fulmer, J. H. ("Universal" Slate Punches & Shapes), Nazareth, Pa.
Lincoln Iron Works, Rutland, Vt.
Patch, F. R. Mfg. Co., Rutland, Vt.
Ruggles Machine Co. (Planers, Saws, Groovers, Trimmers, Drills, etc.), Poultney, Vt.

6982—Slaughter House Machinery
(See also Packing House Machinery)
Smith, Theo. & Sons Co. (Digesters, etc.), ft. of Essex, Jersey City, N. J.

6983—Slicing Machines (Bread, Meat, Etc.)
Crescent Fixtures Co. ("Economy"), Grand Rapids, Mich.
Deer, A. J. Co. (Meat "Royal"), Hornell, N. Y.
Enterprise Mfg. Co. (of Pa.) ("Enterprise" Rotary), Phila., Pa.
Johnson, A. W., New Brunswick, N. J.

6984— Slip Joint Machines
**CANTON FOUNDRY & MACHINE CO.** ("Universal"), Canton, O. (See adv. index, end of book)

6984a—Slip Roll Moving Machines
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

6985— Slitting Machines
(See also Sheet Metal Workers' Machines & Tools)
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Heartley Machine, Variety Iron & Tool Wks., Toledo, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
Kidder Press Co., Dover, N. H.
Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
**LONG & ALLSTATTER CO., Hamil-** ton, O. (See adv. index, end of book)
Mitchell, Jno. R. Co. (Gang Slitters), Baltimore, Md.
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Norton-Jones Machine Tool Works, Plainville, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.
**Standard Machinery Co. (Gang Patterns, etc.),** Providence, R. I.
**TOLEDO MACHINE & TOOL CO.** Gang Pattern, etc.), Toledo, O. (See adv. index, end of book)
**Waterbury Farrel Foundry & Machine Co.,** Waterbury, Conn.

Slot Machines
(See Vending Machines)

6986— Slotting Machines
(See also Screw Slotting Machines)
Baker Bros., Toledo, O.
Betts Machine Co. (8 to 26-inch Stroke), Wilmington), Del.
Clough, R. M., Tolland, Conn.
Dill, T. C. Machine Co. (Inc.) ("Dill"), Fairhill P. O., Phila., Pa.
Espen-Lucas Machine Works (Stationary & Portable), 342 N 15th, Phila., Pa.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
Grant Mfg. & Machine Co., Bridgeport, Conn.
Hartford Machine Screw Co., Hartford, Conn.
Hendy, Joshua Machine Works, San Francisco.
Hendey Machine Co., Torrington, Conn. Cal.
Morton Mfg. Co. (Portable), Muskegon Heights, Mich.
New Haven Mfg. Co., New Haven, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles Bement-Pond Co. (Crank, Geared & Frame), 111 B'way, New York
Pottstown Machine Co., Pottstown, Pa.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Standard Mfg. Co. ("Standard" Automatic Disc), Bridgeport, Conn.
Tindel-Morris Co. (Cold Saw Eddystone, Pa. & Ellwood City, Pa.
Waterbury-Farrel Foundry & Machine Co. (Screw Head), Waterbury, Conn.

6987—Slotting Machines (Locomtive Frame)
Niles-Bement-Pond Co., 111 B'way, New York
Sellers, William & Co., 1600 Hamilton, Phila., Pa.

6987a—Slotting Machines (Paper, Cloth, Leather, Etc.)
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

6988—Slotting Machines (Portable)
Espen-Lucas Machine Works, Phila., Pa.
Morton Mfg. Co., Muskegon Heights, Mich.
Newton Machine Tool Works (Inc.), Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York

6989— Smashing Machinery
Sheridan, T. W. & C. B. Co. (Bookbinders), 56 Duane, New York

6990— Smelting Machinery
(See also Mining Machinery)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Colorado Iron Works Co., Denver, Col.
Denver Engineering Works Co., Denver, Col.
Hendy, Joshua, Machine Works, San Francisco, Cal.
Mashek Engineering Co., 90 West, New York
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Salt Lake Engineering Works, Salt Lake City, Utah
Silver, Hynum A. Foundry & Machine Co., Salt Lake City, Utah
Traylor Engineering Co., Allentown, Pa.

6991— Smoke Test Machines
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Beekman Sanitary Specialty Co., 312 W 34th, New York
**BERNZ, OTTO ("Always Reliable"),** 21 Ashland av, Newark, N. J. (See adv. index, end of book)
Gunster & Forsyth, Scranton, Pa.
Knapp Mfg. Co., 20 Warren, New York
Vanderman Mfg. Co., Willimantic, Conn.

Smoked Beef Shaving Machines
(See Slicing Machines, Bread, Meat, etc.)

6992—Smokeless Powder Mixing Machines
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

6993— Snuff Factory Machinery
Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.

6994— Soapmakers' Machinery
**BEACH-RUSS CO. (Pumps), 55 Green,** Brooklyn, N. Y. (See adv. index, end of book)
Blanchard Machine Co., Cambridge, Mass.
Blettner, Jos. B. & Co., 1976 Central av, cinnati, O.
Bowman, Walker, 39 Cortlandt, New York
Clyde Machine Works Co., 3911 Union av, Chicago, Ill.
Condon, Thos. F. & Co., 50 Church, New York
Dundon's, F. P. San Francisco Iron Works, San Francisco, Cal.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Houchin, Aiken Co. (Toilet, Laundry, etc.), 37 53d, Brooklyn, N. Y.

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Rutschman, Oscar F. (Toilet Soap, Chippers, Presses, Plodders, Cutters, etc.), 426 Berks, Phila., Pa.
Sowers Mfg. Co., Buffalo, N. Y.
Wetherill Bros. Machine Co. (Clippers & Cutters), Chester, Pa.

### 6995— Soap Mixing Machines

Blanchard Machine Co., Cambridge, Mass.
Dundon's, F. P. San Francisco Iron Works, San Francisco, Cal.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Houchin, Aiken Co., 37 53d, Brooklyn, N. Y.
Sowers Mfg. Co., Buffalo, N. Y.

### 6995a—Socket Threading Machines

**TAYLOR-WILSON MFG. CO. (For** Pipe & Tube Mills), McKees Rocks, Pa. (See adv. index, end of book)

### 6996—Soft Metal Cap & Capsule Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6996a—Solder Cap Hemming Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 6997— Soldering Machines

Astoria Iron Works (Inc.) (Side Seam, Chain & Special), Astoria, Ore.
Benedict, L. ("Leiger" Lock Seam Body Forming & Soldering Machines), 128 S Clinton, Chicago, Ill
**BLISS, E. W. CO. (Tin Cans), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Consolidated Press & Tool Co., Hastings, Mich.
Fanning, J. P. (Triangular), 678 Jefferson av, Brooklyn, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Hubbard, W. H. Mfg. Co., Brooklyn, N. Y.
Jones Machine Co. (Can End), Baltimore, Md.
Lang, E. M. Co. (Wire, Drop & Stick, Single & Double Wire & Segment), Portland, Me.
Leffler, Chas. & Co., Brooklyn, N. Y.
Marquette, Jno. N., 507 S Eden, Baltimore, Md.
**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.

### 6998— Sole Cutting Machines

Wellman Co., Medford, Mass.

### 6999—Sole Leather Rolling Machines

Baker, G. W. Machine Co., Wilmington, Del.

### 7000— Sounding Machines

Hand, Jno. & Sons ("Sir Wm. Thompsons"), 222 Walnut, Phila., Pa.

### 7001— Special Machinery

**ABENDROTH & ROOT MFG. CO.,** (Made According to Specifications), Newburgh, N. Y. (See adv. index & branch offices, end of book)
Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
Adt, Jno. B., 332 N Holliday, Baltimore, Md.
Aetna Foundry & Machine Co., Warren, O.
Alliance Machine Co., Alliance, O.
American Foundry & Machine Co., Hamilton, O.
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
Atlantic Works, East Boston, Boston, Mass.
Automatic Machine Co., Bridgeport, Conn.
Baker Bros., Toledo, O.
Barbour-Stockwell Co., Cambridge, Mass.
Beaman & Smith Co., Providence, R. I.
Bender, Ph. J. & Sons, 87 Frankfort, New York
Bentel & Margedant Co., Hamilton, O.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bethlehem Steel Co. (Heavy), S Bethlehem, Pa.
Bigelow Co. (Special Heavy), New Haven, Conn.
Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.
Birch & Birch, Crawfordsville, Ind.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Birmingham Iron Foundry (For Agricultural Implement Makers, etc.), Derby, Conn.
Black & Clawson Co., Hamilton, O.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Boucher, H. E. Mfg. Co., Front & Fulton, New York
Brandt-Dent Co., Watertown, Wis.
Bridgeford Machine Tool Works (Heavy), 225 Mill, Rochester, N. Y.
Brooks, Chas. J., New Haven, Conn.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Brown, F. S. & G. L. Machine Co., Baltimore, Md.
Bryant, O. Sons & Co., Buffalo, N. Y.
Buchel Machine Works, New Orleans, La.
Budd & Ranney Mfg. Co., Columbus, O.
Buescher Band Instrument Co., Elkhart, Ind.
Buffalo Forge Co., Buffalo, N. Y.
Buffalo Steam Pump Co., New York
Builders' Iron Foundry, Providence, R. I.
Burgess Machine Co. (& Inventions Perfected), New Haven, Conn.
Cameron-Tennant Machine Wks., Richmond, Va.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Carroll Foundry & Machine Works, Bucyrus, O.
Carter & Hakes Machine Co., Winsted, Conn.
Center Foundry & Machine Co., Wheeling, W. Va.
Chester Engineering & Machine Co., Chester, Pa.
Colthar, Wm. U., Springfield, O.
Columbus Die, Tool & Machine Co., Columbus, Ohio
Cook, Asa S. Co., Hartford, Conn.
Cook, Henry C. Co., Ansonia, Conn.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Cowdrey, C. H. Machine Works, Fitchburg, Mass.
**CRESCENT NOVELTY MFG. CO.** (Also Experimental), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Currier, Cyrus & Sons, Newark, N. J.
Curtis & Marble Machine Co., Worcester, Mass.
Davis-Johnson Mfg. Co., 4518 Lexington, Chicago, Ill.
Davis, W. P. Machine Co., Rochester, N. Y.
Deane, H. C. Machine Co., Fitchburg, Mass
Detrick & Harvey Machine Co., Baltimore, Md.
Dienelt & Eisenhard, 1308 N Howard, Phila., Pa.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Dodge Bros., Detroit, Mich.
Dodge Machine Works, Syracuse, N. Y.
Eagle Tool & Machine Co. (Special Machinery & Tools), N S, Pittsburg, Pa.
Eastern Machine & Stamping Co., Providence, R. I.
Eastwood, Benj. Co., Paterson, N. J.
Eastwood Wire Mfg. Co. (Heavy & Fine), Belleville, N. J.
Eickmeyer Machine Co. (Experimental, etc.), Yonkers, N. Y.
**ELMES, CHAS. F. ENGINEERING** Works (Mills, Linseed & Oil Machinery). Fulton, cor Sangamon, Chicago, Ill. (See adv. index, end of book)
**FAWCUS MACHINE CO. (Heavy),** 2820 Smallman, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Fernyak & Stavenik Machine Co., Mansfield, O.
Flynn & Emrich Co., Baltimore, Md.
**FOOTE BROS. GEAR & MACHINE CO.** (Engineers' & Machinists'), 210 N Carpenter, Chicago, Ill. (See adv. index, end of Franklin Machine Co., Providence, R. I. book)
**GANSCHAW, WM. CO. (Engineers' &** Machinists'), 1011-1013 Washington boul, Chicago, Ill. (See adv. index, end of book)
Gardam, Wm. & Son (Inc.), 80 Park pl, New
Garvin Machine Co., 137 Varick, New York
Gazzam, H. P. Machine Co., Pittsburg, Pa.
Geier, P. A. Co., Cleveland, O.
Girard Machine Works (Inc.) (Automatic & Special), 2616 Girard av, Phila., Pa.
Gisholt Machine Co. (Turret Lathes, Vertical & Horizontal Boring Mills & Tool Grinders). Madison, Wis.
**GLOBE MACHINE & STAMPING CO.** (Machinery & Parts), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Gould & Eberhardt, Newark, N. J.
Gregg Mfg. Co. (Foundry), Cleveland, O.
Griswold, G. M. Machine Co., New Haven, Conn.
Hancock-Holmes Foundry & Machine Works, Atlanta, Ga.
Harrington, Edwin Son & Co. (Inc.), 17th & Callowhill, Phila., Pa.
Hartz, Henry V. Co. (Inc.), Cleveland, O.
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Hilbert Machine Co., Cincinnati, O.
Hoefer Mfg. Co., Freeport, Ill.
Hollingsworth, Wm., Baltimore, Md.
Hummer Tool & Mfg. Co., Springfield, Ill.
Hurd & Haggin (Automatic Machinery & Experimental Work & Models), 316 Hudson, New York
Ideal Tool & Specialty Works, Cleveland, O.
Ingle Machine Co. (Automatic), Rochester, N. Y.
Johnston & Jennings Co., Cleveland, O.
Keagy & Lear Machine Co., Coshocton, O.
Kent Machine Works, 39 Gold, Brooklyn, N. Y.
Kilby Mfg. Co. (Heavy), Cleveland, O.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)
Konigslow, E. Stamping & Tool Works (Light), Cleveland, O.
Langelier Mfg. Co., 67 Clifford, Providence, R. I.
Lazenby, F. A. & Co., Baltimore, Md.
Leffler, Chas. & Co. (Experimental), 63 Clymer, Lipe, C. E., Syracuse, N. Y. Brooklyn, N. Y.
Love Bros. (Inc.), Aurora, Ill.
McCarthy Bros. & Ford (Electrical), Buffalo,
Marvin & Casler Co., Canastota, N. Y. N. Y.
Manville Bros. Co., Waterbury, Conn.
Modern Machinery Co., Wilmington, Del.
Montague Iron Works, Montague, Mich.
Morris, I. P. Co. (Heavy), Beach & Ball, Phila., Pa.
Morris Engineering Co. (Heavy, Hydraulic & High Speed, etc.), 333 Walnut, Phila., Pa.
Morristown Spring Winding Machine Co., Morristown, Pa.
Mossberg, Frank Co. (Light Machinery & Tools), Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
Mueller Machine Tool Co., Cincinnati, O.
National Automatic Tool Co., Richmond, Ind.
National Machine Co., Hartford, Conn.
National Machine Co., Wilmington, Del.
**NESTOR MFG. CO. (Inc.), 40 W 13th,** New York. (See adv. index, end of book)
Newark Gear Cutting Machine Co., Newark, N. J.
Newbold, R. S. & Son Co., Norristown, Pa.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Nilson, A. H. Machine Co., Bridgeport, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Nugent Tool Co., Cincinnati, O.
Otis, Frank H., Rochester, N. Y.
Phila. Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Poole, J. Morton Co., Wilmington, Del.
Portland Co., Portland, Me.
Pratt & Whitney Co., Hartford, Conn.
Pringle & Brodie Machinery Co., 514 S Canal, Chicago, Ill.
Richard Mfg. Co. (For Tubing, Sheet Metal & Wire & Rod), Bloomsburg, Pa.
Rittenhouse, Frank, Norristown, Pa.
Rosedale Foundry & Machine Co. (Heavy Rolling Mill, etc.), Pittsburg, Pa.
Rowbottom Machine Co. (Automatic Machinery a Specialty), Waterville, Conn.
Rowland Machine Co., New Haven, Conn.
Royersford Foundry & Machine Co., Royersford, Pa.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
S. & I. Co. (Light Automobile & Interchangeable), Springfield, Mass.
Salem Iron Works (Inc.) (Also Experimental, Including Details, Drawings, etc.), Winston Salem, N. C.
Schaeffer Machine Works (Heavy), 35th & Grays Ferry rd, Phila., Pa.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
Shawver Co., Springfield, O.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. for Particulars Regarding the Manufacture of All Kinds of Special Machinery). (See adv. index, end of book)
Simonds Mfg. Co., Pittsburg, Pa.
Sipp Electric & Machine Co., Paterson, N. J.
Smith & Williams, Columbus, Ohio
Squier, Geo. L. Mfg. Co., 490 B'way, Buffalo,
Tacony Iron Co., Tacony, Phila., Pa. N. Y.
Taft-Peirce Mfg. Co. (& Mechanical Devices of All Kinds), Woonsocket, R. I.
Taylor & Fenn Co. (Small Machinery a Specialty), Hartford, Conn.
Taylor-Shantz Co., Rochester, N. Y.
**TAYLOR-WILSON MFG. CO. (Pipe &** Tube Mill & Heavy), McKees Rocks, Pa. (See adv. index, end of book)

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Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
Thurston Mfg. Co., Providence, R. I.
Torrington Mfg. Co. (Dies & Tools), Torrington, Conn.
Treadwell, M. H. Co., 90 West, New York
Trump Bros. Machine Co. (Light), Wilmington, Del.
Turner Machine Co., Newark, N. J.
**UNION FOUNDRY & MACHINE CO.** (Made According to Specifications), Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (For Rolling Mills & Tube Mills), Pittsburg, Pa.
Van Dorn & Dutton Co., Cleveland, O.
Verdin, Kappes & Verdin, Cincinnati, O.
**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)
**VOELKNER & HARRY MANUFACturing Co.,** 282 Woodbridge, E, Detroit, Mich. (See adv. index, end of book)
V. & O. Press Co., Glendale, L. I., N. Y.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Webster & Perks Tool Co., Springfield, O.
Wellman Co. (Automatic Machinery Designed & Constructed), Medford, Mass.
Wetherill Bros. Machine Co., Chester, Pa.
Willard Machine & Tool Co., Cincinnati, O.
Williams, White & Co., Moline, Ill.
Wilson, W. A. Machine Co., Rochester, N. Y.
Wishart-Burge Machine Works, 218 N Jefferson, Chicago, Ill.
Wold, Torris & Co. (For Sheet Metals), 218 N Jefferson, Chicago, Ill.
York Electric & Machine Co., York, Pa.

### 7002— Spike Machinery

National Machinery Co. (Hand Feed, etc.), Tiffin, O.

### 7003—Spinach Canners' Machinery

Huntley Mfg. Co. ("Monitor" Whirlpool Blanchers, Washers & Coolers), Silver Creek, N. Y.

### 7004—Spindle Carving Machines

Jenkins Machine Co., Sheboygan, Wis.
Porter, C. O. Machinery Co., Grand Rapids, Mich.
Valley City Machine Works, Grand Rapids, Mich.

### 7005—Spindle Drilling Machines

American Watch Tool Co. (Bench), Waltham, Mass.

### 7006—Spiral Twist Moulding Machines

Valley City Machine Works (For Rope & Twist Mouldings), Grand Rapids, Mich.

### 7007— Splitting Machines

(See also Leather Splitting Machines)

**LONG & ALLSTATTER CO. & Cross-**Cutting Shears for Plate & Round or Flat Bar Iron or Steel, Belt, Motor or Steel Driven), Hamilton, O. (See adv. index, end of book)

### 7008— Spoke Auger Machines

House Cold Tire Setter Co. ("Ever-Ready," Self-Feeding), St. Louis, Mo.

### Spoke Machinery

(See Hub, Spoke & Rim Machinery)

### 7009—Spoke Tenoning Machines

Bentol & Margedant Co., Hamilton, O.
Silver Mfg. Co. ("Dole & Demings"), Salem, O.

### 7010—Spool Stock Sawing Machinery

Chapman's, T. M. Sons Co., Old Town, Me.

### 7011—Spool Stranding Machines

Watson Machine Co., Paterson, N. J.

### 7012—Spool Stranding & Armoring Machines

Watson Machine Co., Paterson, N. J.

### 7013—Spool & Bobbin Machinery

Cole Mfg. Co., Lakeport, N. H.
Defiance Machine Works, Defiance, O.
Goodspeed Machine Co., Winchendon, Mass.
Kline, Lewis T. (General Line), Alpena, Mich.
Wurkland, J. W. Barton, Vt.

### 7014— Spoon & Fork Machinery

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)

### 7015— Spraying Machines

(See also Paint Spraying Machines; also Pumps, Spray)

American Sprayer Co. ("Wallace"), Minneapolis, Minn.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Champion Mfg. Co., Pontiac, Mich.
Childs, Chas. H. & Co. ("Standard," Centrifugal, 52 & 120 Gallons), Utica, N. Y.
Eureka Pneumatic Spray Co. (Pneumatic), 276 Spring, New York
**FAIRBANKS, MORSE & CO.** (Power, Portable Spraying Outfits), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Field Force Pump Co. (Hand & Horse Power), Elmira, N. Y.
**GOULDS MFG. CO. (Field & Or-**chard, etc.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hardie Mfg. Co. (Field & Orchard), Hudson, Mich.
Hurst, H. L. Mfg. Co. ("Fitz-All"), Canton, O.
McCormick Mfg. Co. ("Nixon-Climax" for Lawn & Field), Dayton, O.
Morris Sprayer Co. ("Sure Spray" For Fields, Orchards, Whitewashing, etc.), Rochester, N. Y.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Niagara Sprayer Co., Middleport, N. Y.
Steam Carriage Boiler Co., Oswego, N. Y.
Wright, N. A., Pontiac, Mich.

### 7016— Spring Bed Machinery

Ivens, Wm. H. Sons Co., Trenton, N. J.
Wells, Frank L., Kenosha, Wis.

### 7017—Spring Clamping Machines

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7018— Spring Closing Machines

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7019—Spring Coiling Machines

**AMERICAN CAN CO. (Mach'y Dept.),** ("Rudolphi & Krummel"), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Baird Machine Co. (Automatic), Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Evans', Jno. Sons (Light & Heavy), 13th & Buttonwood, Phila., Pa.
Garvin Machine Co., 137 Varick, New York.
Morgan Spring Co., Worcester, Mass.
Pratt & Whitney Co., Hartford, Conn.
**SHUSTER, F. B. CO. (Wire), New** Haven, Conn. (See adv. index, end of book)

### Sprue Cutting Machines

(See Cutters, Sprue, Foot & Power)

### 7020—Stair Routing Machines

Smith & Phillips Mfg. Co., 412 N Sangamon, Chicago, Ill.

### 7020a—Stamp Affixing Machines

**NATIONAL ENVELOPE SEALING &** Stamping Co. ("National"), New John Hancock bldg, Boston, Mass. (See adv. index, end of book)

### 7021— Stamping Machinery

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

### 7022—Stamping Machines (Adjustable)

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)
Dewes, A. Co., 243 Centre, New York
Smith, M. D. (For Stamping Name on Spoons & Metal), Bristol, Conn.

### 7023— Staple Machines

Acme Staple Co., Camden, N. J.
Adt, Jno. & Son, New Haven, Conn.
Baird Machine Co., Oakville, Conn.
Bates Machine Co., Joliet, Ill.
Morgan Spring Co., Worcester, Mass.
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
**SHUSTER, F. B. CO. (Shear & Barb-**ed Point, Automatic), New Haven, Conn. (See adv. index, end of book)
Special Machinery Co. (Special Automatic), Bridgeport, Conn.
Turner, Vaughn & Taylor Co. (Iron Fence Staples), Cuyahoga Falls, Ohio


# MYERS SPRAY PUMPS, NOZZLES, Etc.

Fig. 1364

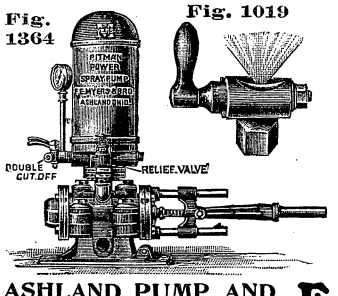



Fig. 1019

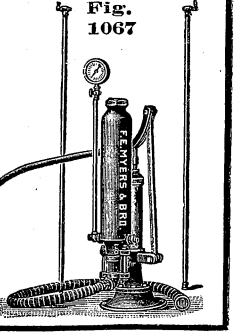


A Complete Line of Hand and Power Spray Pumps, Nozzles, Fittings, Etc., for Painting, Whitewashing, and Spraying Fruit Trees. We are Headquarters for Pumps for Every Service including Hand, Windmill and Power Pumps, House Pumps, Tank Pumps, Pressure Tank Pumps, Cylinders, Etc.

Fig. 1318



Fig. 1067



ASHLAND PUMP AND HAY TOOL WORKS **F. E. MYERS & BRO.** ASHLAND, OHIO


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### 7024— Stapling Machines
(See also Wire Stapling Machinery)

Saranac Machine Co., St. Joseph, Mich.
Stimpson, Edwin B. Co., 31 Spruce, New York

### 7025—Starch Factory Machinery

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Remmers, B. & Sons (Consulting & Constructing Engineers, Complete Equipments), Bourse bldg, Phila., Pa.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Straub Machinery Co., Cincinnati, O.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

### 7026—Static Electric Machines

Ajax Conductor & Mfg. Co., 412 N Sangamon, Chicago, Ill.
Birtman Electric Co., 12 S Clinton, Chicago, Ill.
Dodd & Struthers, Des Moines, Ia.
Harvard Electric Co., 523 W Van Buren, Chicago, Ill.
King, Geo. M. Mfg. Co., Des Moines, Ia.
Knott, L. M. Apparatus Co., 15 Harcourt, Boston, Mass.
McElliott, D. P., 41 State, Chicago, Ill.
McIntosh Battery & Optical Co., 39 W Randolph, Chicago, Ill.
Moore Bros. Lightning Rod Co., Maryville, Mo.
National Cable & Mfg. Co., Niles, Mich.
**QUEEN & CO. (Inc.), 1211 Arch,** Phila, Pa. (See adv. index, end of book)
Van Houten & Tenbroeck Co. ("Norton"), 214 E. 23rd, New York
Waite & Bartlett Mfg. Co. ("Ranney"), 115 W 31st, New York

### 7027— .Stave Cutting Machines

Trevor Mfg. Co., Lockport, N. Y.

### 7028—Stave Equalizing Machines

Trevor Mfg. Co., Lockport, N. Y.
Oram, Jno. S., Cleveland, O.

### 7029—Stave Jointing Machines

American Sawmill Machinery Co., Hacketts-
Mack & Co., Rochester, N. Y. town, N. J.
Oram, Jno. S., Cleveland, O.
Rochester Barrel Machine Works ("Widdowson"), Rochester, N. Y.
Strait, H. N. Mfg. Co., Kansas City, Kans.
Trevor Mfg. Co., Lockport, N. Y.
Union Foundry & Machine Co. ("Eureka" Slack Barrel), Memphis, Tenn.

### 7030—Stave Rounding Machines

Trevor Mfg. Co., Lockport, N. Y.
Oram, Jno. S., Cleveland, O.

### 7031—Stave Sawing Machines

American Sawmill Machinery Co. ("American"), Hackettstown, N. J.
Whitney, Baxter D. & Son, Winchendon, Mass.

### Stave & Heading Machinery
(See Barrel, Keg, Stave & Heading Machinery)

### 7032—Staybolt Drilling Machines

Foote-Burt Co. (4 Spindle), Cleveland, O.

### 7033—Staybolt Threading Machines

Acme Machinery Co., Cleveland, O.
Foote-Burt Co. ("Reliance"), Cleveland, O.
Harrington Edwin Son & Co., 17th & Callowhill, Phila., Pa.
Landis Machine Co., Waynesboro, Pa.
Modern Tool Co., Erie, Pa.

### 7034—Staying Machines (Automatic)

National Metal Edge Box Co. (For Setting up Paper Boxes with Metal Stay), 8th & Willow, Phila., Pa.

### 7035— Stearine Machinery

Blettner, Jos. B. & Co., Cincinnati, O.
Brecht, Gus V. Butchers' Supply Co. (Oleo Stearine), St. Louis, Mo., & 102 Pearl. New York

### 7036—Stencil Cutting Machines

American Diagraph Co., 11 N 2d, St. Louis, Mo.
Bradley, A. J. Mfg. Co., 101 Beekman, New York
Bradley Stencil Machine Co., St. Louis, Mo.
Diagraph Co., 9th & Clinton. St. Louis, Mo.
Elliott Co., 299 B'way, New York
New York Stencil Works ("National"), 100 Nassau, New York
Roovers Mfg. Co., 170 B'way, New York

### 7037— Stereoscopic Machines

Rosenfield Mfg. Co. ("Victoria." Automatic), 585 Hudson, New York

### 7038—Sterilizing & Disinfecting Machines (Clothes)

Troy Laundry Machinery Co., 33 Warren, New York, & 23d & Lasalle, Chicago, Ill.

### 7038a—Stock Sizing Machines

Grammes, L. F. & Sons (For Small Wooden Boxes, etc.), Allentown, Pa.

### 7039—Stone Channeling Machines

**INGERSOLL - RAND CO. (Steam or** Air, Bar, Track & Undercutting), 11 B'way, New York. (See adv. index & branch offices, end of book)
Lord, Bowler & Co., Cleveland, O.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.
Steam Stone Cutter Co. ("Wardwell" Single & Double Gang. etc.), Rutland, Vt.
**SULLIVAN MACHINERY CO., Peo**ples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

### 7040—Stone Channeling Machines (Steam & Electric-Air)

**INGERSOLL-RAND CO., 11 B'way,** New York (See adv. index & branch offices, end of book)

### Stone Crushing Machinery
(See Crushers, Rock & Ore)

### 7041—Stone Cutting Machinery

Gilmour, J., 99 Nassau, New York
Lincoln Iron Works, Rutland, Vt.

### 7042—Stone Gadder or Drilling Machines

**INGERSOLL - RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Steam Stone Cutter Co. ("Standard" for Quarrying Stone), Rutland, Vt.

### 7043—Stone Gang Sawing Machines

Anderson, Geo. & Co., Newark, N. J.
Glover Machine Works (For Marble, etc.),
Hinds, Thomas, Malone, N. Y. Marietta, Ga.
Lincoln Iron Works ("Merriman" Screw Feed, etc.), Rutland, Vt.
Lord, Bowler & Co., 1004 Center, Cleveland, O.
New Albany Mfg. Co., New Albany, Ind.

### Stone Planing Machinery
(See Planers, Stone)

### 7044—Stone Polishing Machinery

Badger, L. K. & Co., Quincy, Mass.
Concord Axle Co. ("Jenny Lind"), Penacook, N. H.
Granite City Iron Works Co., St. Cloud, Minn.
Hanna Engineering Works ("Ajax", Electric Variable Speed Combined Polisher & Drilling Machines), 2059 Elston av, Chicago, Ill.
Harrison Supply Co., 5 & 7 Dorchester av, Extension, Boston, Mass.
Hinds. Thos., Malone, N. Y.
**INGERSOLL - RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Lincoln Iron Works, Rutland, Vt.
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Patch, F. R. Mfg. Co., Rutland, Vt.
Pittsburgh Crushed Steel Co. (Ltd.), Pittsburgh, Pa.
St. Cloud Iron Works (Jenny Lind & Coluna Polishers). St. Cloud. Minn.
Smith, Whitcomb & Cook Co., Barre. Vt.

### 7045— Stone Sawing Machines

Anderson, Geo. & Co., 420 Ogden, Newark, N. J.
Frenier & Son, Rutland, Vt.
Gilmour, J., 99 Nassau, New York
Hawley, E. J. & C. H., Manchester, Vt.
Hinds, Thos., Malone, N. Y.
Lincoln Iron Works (Also Circular Sawing), Rutland, Vt.
Lord, Bowler & Co. (Rubbing Beds, Gang Saws, etc.), 1004 Center, Cleveland, O.
New Albany Mfg. Co., New Albany, Ind.
Patch, F. R. Mfg. Co. (Also Circular Sawing), Rutland, Vt.
Pattin Bros. Co., Marietta, O.
St. Cloud Iron Works, St. Cloud, Minn.
Seward & Co., Bloomington, Ind.
Trevor Mfg. Co., Lockport, N. Y.
United States Rapid-Fire Gun & Power Co., Derby, Conn.
Walton, P. M., 1023 Gtn. av, Phila., Pa.

### 7046— Stone Sifting Machines

Clark & Mills Electric Co., Cambridge, Mass.

### Stone Surfacing Machines
(See Pneumatic Stone Surfacing Machines)

### 7047—Stone Working Machinery

Anderson, Geo. & Co. (Ltd.), Newark, N. J.
Atlanta Machine Works (For Marble), Atlanta, Ga.
Birmingham Iron Foundry (Stone Planers, Rubbing Beds, etc.), Derby, Conn.
**DALLETT, THOS. H. CO. (Pneumat**ic), 2300 York, Phila., Pa. (See adv. index, end of book)
Dennis Mfg. Co., Newark, N. J.
Farrel Foundry & Machine Co (Planers, Headers, etc.), Ansonia, Conn.
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Flynn & Emrich Co., Baltimore, Md.
Gilmour, J., 99 Nassau, New York
Glover Machine Works (Gang Saws & Rubbing Beds for Marble), Marietta, Ga.
Hawley, E. J. & C. H., Manchester, Vt.
**INGERSOLL - RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Lincoln Iron Works, Rutland, Vt.
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)
New Albany Mfg. Co., New Albany, Ind.
Patch, F. R. Mfg. Co., Rutland, Vt.
Ruggles Machine Co. (For Soft Stone, such as Slate, Soap & Sandstone). Poultney. Vt.
St. Cloud Iron Works Co., St. Cloud, Minn.
Seward & Co., Bloomington. Ind.
Smith, Whitcomb & Cook Co., Barre, Vt.
United States Rapid-Fire Gun & Power Co., Derby, Conn.

### 7048—Stove Pipe & Elbow Machines

Alexander Bros., Carnegie, Pa.

### Straightening Machines
(See Index of Contents for Specific Kind Required)

### 7048a—Straightening & Cutting Machines (Strip Metal)

**NIAGARA MACHINE & TOOL W'KS,** Buffalo, N. Y. (See adv. index, end of book)

### 7049— Stranding Machines

Watson Machine Co., Paterson, N. J.

### 7050—Strawboard Lining Machines

Hobbs Mfg. Co., Worcester, Mass.

### 7051—Street Flushing Machines

Connelly, D. Boiler Co., Cleveland, O.
Kindling Machinery Co. ("Kindling," Sprinkler, Sweeper & Flusher Combined), Milwaukee, Wis.
Sanitary Street Flushing Machine Co., Carleton bldg. St. Louis, Mo.
Studebaker Corp., South Bend, Ind.

### 7052—Street Railway Sweeping Machines
(See also Plows, Snow)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Consolidated Car Fender Co. ("Campbell"), Providence, R. I.

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Indiana Road Machine Co., Fort Wayne, Ind.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Menzies Street Cleaner Co., Glens Falls, N. Y.
Smith & Wallace (Electric), Woburn, Mass.
Wendell & MacDuffie, 50 Church, New York

### 7053—Street Sweeping Machines

Abbott Downing Co., Concord, N. H.
Acme Road Machinery Co., Frankfort, N. Y.
Campbell, P. F., 55 Laurel, Phila., Pa.
Duplex Mill & Mfg. Co. ("Pick-Up"), Springfield, O.
Good Roads Machine Mfg. Co., Kennett Square, Pa.
Greene Mfg. Co. (Hand), Springfield, O.
Hvass, C. & Co., 509 E 18th, New York
Modern Machine Co. ("Modern"), Belleville, Ill.
Monarch Road Roller Co. ("Monarch"), Groton, N. Y.
Sanitary Street Sweeping Co. ("Pick-up"), 504 Virginia av, S. E., Washington, D. C.
Strain, J. H. Co. ("Improved Barnard Castle"), 85 Front, New York
Studebaker Corp., South Bend, Ind.
Walker, H. B. ("Iron Clad" Pick-Up), Tarrytown, N. Y.
Western Wheeled Scraper Co., Aurora, Ill.

### 7054—Stretcher or Rod Machines

Jenkins Machine Co. (Single & Double Head, for Chair Makers, etc.), Sheboygan, Wis.

### 7055— Striking Machines

Herschell-Spillman Co. (For Parks & Pleasure Grounds), North Tonawanda, N. Y.

### 7056—String Bean Machinery

Howes, S. Co. (For Canners), Silver Creek, N.Y.
Huntley Mfg. Co. (For Canners), Silver Creek, N. Y.
Invincible Grain Cleaner Co. (For Canners), Silver Creek, N. Y.
Lewis, E. J. ("Lewis" Cutting for Canners), Middleport, N. Y.

### 7057— Stucco Machinery

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Butterworth & Lowe (Inc.), Grand Rapids, Mich.
Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kans.
McDonnell Boiler & Iron Wks., Des Moines, Ia.

### Sugar Machinery

(All Machinery & Appliances for the manufacture of Beet & Cane Sugar will be found under the heading "Sugar Machinery," followed by sub-classifications in the letter "S." For page number see Index of Contents)

### 7058—Sulphite Fibre Machinery

Bellows Falls Machine Co. (For Paper Mills), Bellows Falls, Vt.
Carthage Machine Co., Carthage, N. Y.

### 7059—Sulphuric Acid Machinery

Atlanta Utility Works, East Point, Ga.
Church Appliance Mfg. Co., La Salle, Ill.
Hancock-Holmes Foundry & Machine Works, Atlanta, Ga.
Pennsylvania Salt Co., 115 Chestnut, Phila., Pa.
Pratt Engineering & Machine Co., Atlanta, Ga.

### 7060— Suppository Machines

Colton, Arthur Co. (Cold Compressed), Detroit,
Stokes, F. J. Machine Co., Phila., Pa. Mich.

### 7061— Swaging Machines

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
**BLISS, E. W. CO. (for Sheet Metal),** 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Excelsior Needle Co. ("The Dayton"), Torrington, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Langelier Mfg. Co. (Cold Swaging, Hammering & Reducing Machines), Providence, R. I.
Standard Machinery Co. (Rotary), Providence, R. I.
Swaine, F. J. Mfg. Co., 1300 N 7th, St. Louis, Mo.
Thurston Mfg. Co., Providence, R. I.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 7062—Syrup Filling Machines (Canners')

**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 7063— Syruping Machines

Ams, Max Machine Co., Mount Vernon, N. Y.
Sinclair-Scott Co., Baltimore, Md.
**SPRAGUE CANNING MACHINERY CO.,** 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stickney, Henry R., Portland, Me.

### 7064— Tablet Machines

(See also Pill Making Machines)

Colton, Arthur Co., Detroit, Mich.
Day, J. H. Co., Cincinnati, O.
Hess & Barker ("Richard's" Universal Automatic), 605 Sansom, Phila., Pa.
Mulford, H. K. Co., 412 S 13th, Phila., Pa.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.

### 7065— Tabulating Machines

Tabulating Machine Co. ("Hollerith"), 1054 31st, Washington, D. C.

### 7066— Tack Machinery

Kimball Bros. & Sprague, Brockton, Mass.
Miller's, H. J. Sons, Bridgewater, Mass.
Perkins, Henry Co. ("Improved Perkins"), Bridgewater, Mass.

### 7067— Tag Machinery

American Machine Co. ("Denney"), Newark, Del.
Rittenhouse, Frank, Norristown, Pa.

### 7068—Tag Stringing Machines

Hobbs Mfg. Co., Worcester, Mass.

### 7069—Tailors' Pressing Machines

Geyer, Edward J. ("Champion"), Rochester, N. Y.
Lufkin, Jno. W., 38 Chardon, Boston, Mass.
Timmis & Clissold, Boundbrook, N. J.

### 7070— Talking Machines

American Graphophone Co., 154 Nassau, New York, & Bridgeport, Conn.
Columbia Phonograph Co., 154 Nassau, New York
Edison Phonograph Works, Orange, N. J.
National Phonograph Co., Orange, N. J.
Victor Talking Machine Co., Camden, N. J.

### 7071—Tan Bark Packing Machines

Eureka Bark Mill Co., Lancaster, Pa.

### 7072— Tannery Machinery

Baker, G. W. Machine Co., Wilmington, Del.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Carley Heater Co., Olean, N. Y.
Burrell Mfg. Co., Bradley, Ill.
Desuris, John, Co., Lowell, Mass.
Dubois Iron Works, Dubois, Pa.
Barry & Zecher Co., Lancaster, Pa.
Dennis, John Machine Co., Lowell, Mass.
Hemingway Machine Co., Lynn, Mass.
Hide & Leather Working Machinery Co., Milwaukee, Wis.
Holmes, Chas. Leather Working Machine Co. (Tan Presses, Scouring Machines, etc.), 299 Marginal, E B, Boston, Mass.
Horn, Wm. H. & Bro. (Bark Mills, Splitting Machines & Tanners' & Curriers' Tools), 451 N 3d, Phila., Pa.
Hutchinson Hide & Leather Machine Co. (Unhairing, Fleshing & Working-Out Machines, etc.), Winchester, Mass.
Munkwitz, Edw. H. Co. ("Leidgen" Unhairing Machines), Milwaukee, Wis.
Myrick Machine Co., Olean, N. Y.
Shapley & Wells, Binghamton, N. Y.
Slocomb, F. F. & Co., Wilmington, Del.
Smith's, Jno. E. Sons Co. (Steam Jacket Kettles, Stuffing Mixers, Rendering Tanks, etc.), Buffalo, N. Y.
Stauffer, Geo. E., Stroudsburg, Pa.
Stehling, Chas. H. Co., Milwaukee, Wis.
Turner Tanning Machine Co., Peabody, Mass.
Whitney Machine Co. (Unhairing, Fleshing & Working-Out Machines), Winchester, Mass.

### 7073— Taper Rolling Machines

Coulter & McKenzie Machine Co., Bridgeport, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Waterbury Farrel Fdry. & Machine Co., Waterbury, Conn.
Williams, White & Co. (For Tapering or Forging Shapes), Moline, Ill.

### 7074—Taper Threading Machines

Acme Machinery Co., Cleveland, O.

### 7075—Taper Tube Spinning Machines

Langelier Mfg. Co., Providence, R. I.

### 7076— Tapping Machines

(See also Nut Tapping Machines; also Tapping Machines for Gas & Water Mains)

Allen Machine Co., Cleveland, O.
American Watch Tool Co. (Bench), Waltham, Mass.
Baker Bros., Toledo, O.
Beaman & Smith Co. (Tapping Attachments, Drill Press, Safety Friction Type), Providence, R. I.
Blair Tool & Machine Works ("Champion"), 24 West, New York
**FREVERT MACHINERY CO., 18** Dey, New York (See adv. index, end of book)
Garvin Machine Co. (Automatic etc.), 137 Varick, New York
Grant Mfg. & Machine Co. (Automatic), Bridgeport, Conn.
Harrington, Edwin Son & Co., 17th Callowhill, Phila., Pa.
Hartford Machine Screw Co., Hartford, Conn.
Hays Mfg. Co., Erie, Pa.
Hub Machine Welding & Contracting Co. ("Acme," Hand), 621 Cherry, Phila., Pa.
Hubbell, Harvey, Bridgeport, Conn.
National Machine Co. (Horizontal), Hartford, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
**MURCHEY MACHINE & TOOL CO.** (For Flanges, Fittings, Valves, etc.), 52 Porter c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)
Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Partridge, Edw. O., 2047 Lake, Chicago, Ill.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Quint, A. D., Hartford, Conn.
Sloan & Chace Mfg. Co. (Ltd.) (Bench), Newark, N. J.
**STARK TOOL CO. (Small), Waltham,** Mass. (See adv. index, end of book)
Stewart, S. A. Co. (Bench), Waltham, Mass.
United Engineering & Foundry Co. (For Tube Mills), Farmers' Bank bldg, Pittsburg, Pa.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.

### 7077—Tapping Machines (Dry Pipe)

Hays Mfg. Co., Erie, Pa.
Lennox Machine Co., Marshalltown, Iowa
Mueller, H. Mfg. Co., Decatur, Ill.

### 7078—Tapping Machines (Gas & Water Main)

Boust, A. C., Northumberland, Pa.
Carr, Chas., 7 Exchange pl, Boston, Mass.
Hardesty, J. M. & Son, Tamaqua, Pa.
Hays Mfg. Co. ("Original-Payne's"), Erie, Pa.
Lennox Machine Co. (For Tapping Water Mains Under Pressure), Marshalltown, Ia.
Mueller, H. Mfg. Co., Decatur, Ill.
Saunders, D. Sons, Yonkers, N. Y.
Smith, A. P. Mfg. Co., East Orange, N. J.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waterworks Equipment Co. (Gasoline Motor Driven), 50 Church, New York

### 7079—Tapping Machines (Horizontal)

Pratt & Whitney Co., Hartford, Conn.

### 7080—Tapping Machines (Multiple)

Williams, White & Co. (For Pipe Fittings), Moline, Ill.

### Tapping Machines (Nut)

(See Nut Tapping Machines)

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### 7081 Tapping Machines (Pipe-Socket)

Harrington, Edwin, Son & Co., Phila., Pa.
Saunder's Sons, Yonkers, N. Y.

### Tapping & Reaming Machines (Pneumatic)

(See Pneumatic Hammers)

### 7082—Tapping & Reaming Machines (Portable)

**CHICAGO FLEXIBLE SHAFT CO.,** La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gem Mfg. Co. ("Gem," for use with **Flexible Shafts**), **Pittsburg, Pa.**
Stow Flexible Shaft Co., N 20th & Buttonwood, Phila., Pa.
Stow Mfg. Co., Binghamton, N. Y.

### 7083—Tapping & Threading Machines

Jenks, H. F. (For Operating Taps & Dies), Pawtucket, R. I.

### 7084—Telephone Core Machines

Watson Machine Co. (For Telephone & Telegraph, etc., Parts), Paterson, N. J.

### Tenoning Machines

(See Wood Tenoning Machines)

### 7085— Tension Machines

Device Improvement Co. (For Band Wire & Magnet Wire, also for Strapp Copper), Hanover, Pa.

### 7086—Test Hole Drilling Machines

Loomis Machine Co. (For Foundations, Test Holes, Blast Holes, etc.), Tiffin, O.

### 7087— Testing Machines

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
**SHORE INSTRUMENT & MFG. CO.** For Testing Strength & Hardness of Materials), 557 W 22d, New York. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

### 7088—Testing Machines (Anchor)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7089—Testing Machines (Axle, Draw-Bar, Etc.)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

### 7090—Testing Machines (Belt)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7091—Testing Machines (Brick)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Strait, H. N. Mfg. Co., Kansas City, Kans.

### 7092—Testing Machines (Can)

Ayars Machine Co., Salem, N. J.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Jones Machine Co., Baltimore, Md.
Lewis, E. J., Middleport, N. Y.
McDonald Machine Co. (Automatic), 3207 Shields av, Chicago, Ill.
**Slaysman & Co., Baltimore, Md.**
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stevenson & Co. ("Mann-Stevenson" Automatic), Baltimore, Md.

### 7093—Testing Machines (Car Wheel)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

### 7094—Testing Machines (Cement)

Bausch & Lomb Optical Co., Rochester, N. Y.
Clark & Mills Electric Co. (Also for Testing Stone & Road Materials), Cambridge, Mass.
Eimer & Amend, 205 3d av, New York
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
International Instrument Co. (Also for Testing Stone & Road Materials), Cambridge, Mass.
Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N. 9th, Phila., Pa.

### 7095—Testing Machines (Chain)

Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

### 7096—Testing Machines (Concrete)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7097—Testing Machines (Fruit Can)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 7098—Testing Machines (Hardness)

**SHORE INSTRUMENT & MFG. CO.,** 557 W 22d, New York. (See adv. index & branch offices, end of book)

### 7099—Testing Machines (Hydraulic)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

### 7100—Testing Machines (Leather)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7101—Testing Machines (Oil)

Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

### 7102—Testing Machines (Paper)

Morrison, Howard L. ("Morrison" "Herron"), P. O. Box 297, Washington, D. C.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7103—Testing Machines (Pipe)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
**TAYLOR-WILSON MFG. CO.** (Hydraulic), McKees Rocks, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (For 2 to 12 Inch Pipe), Farmers' Bank bldg, Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

### 7104—Testing Machines (Power)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Perkins, B. F. & Son, Holyoke, Mass.

### 7105—Testing Machines (Rubber)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

### 7106—Testing Machines (Spring)

Evans', John Sons, 13th & Buttonwood, Philadelphia, Pa.
Johnston, Wm. T. Co. (Vehicle), Cincinnati, O.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
**SHORE INSTRUMENT & MFG. CO.** (For Testing Spring Metals), 557 W 22d, New York. (See adv. index & branch offices, end of book)

### 7107—Testing Machines (Steel)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
**SHORE INSTRUMENT & MFG. CO.** (For Testing Strength of Materials), 557 W 22d, New York. (See adv. index & branch offices, end of book)

### 7108—Testing Machines (Stone)

Clark & Mills Electric Co., Cambridge, Mass.
International Instrument Co., Cambridge, Mass.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

### 7108a—Testing Machines (Strength)

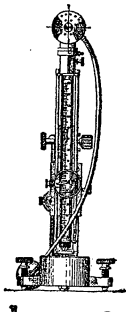
**SHORE INSTRUMENT & MFG. CO.** (Strength & Hardness Testing), 557 W 22d, New York. (See adv. index & branch offices, end of book)

### Testing Machines (Textile)

(See Testing Machines, Cloth; also Testing Machines, Yarn)

### 7109—Testing Machine (Traction)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

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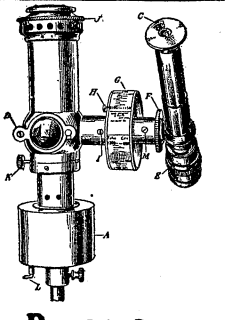


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### 7110—Testing Machines (Water Meter)
Mueller, H. Mfg. Co., Decatur, Ill.

### 7111—Testing Machines (Wire)
Coldwell-Wilcox Co., Newburgh, N. Y.
Morgan Construction Co., Worcester, Mass.
Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

### Textile Machinery
(See Specific Article Wanted)

### 7112—Thread Cut-Off Machines
Morley Button Sewing Machine Co. (Automatic for Bars & Tacks in Shoes & Clothing), 68 Essex, Boston, Mass.

### 7113—Thread Rolling Machines
Acme Machinery Co. (Rotary), Cleveland, O.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Manville, E. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co. (Reciprocating), Bridgeport, Conn.
Triumph Electric Co. (Reciprocating), Oakley, O.
Waterbury Farrel Foundry & Machine Co. (Reciprocating), Waterbury, Conn.

### 7114—Threading Machines (Sheet Metal)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Leffler, Chas. & Co., 49 Clymer, Brooklyn, N. Y.

### Threshing Machinery
(See Threshers)

### 7115—Thumbhole Cutting Machines
Chase Turbine Mfg. Co. ("Chase's" Automatic), Orange, Mass.
Hobbs Mfg. Co. (For Paper Box Makers), Worcester, Mass.

### Ticket Cancelling Machines
(See Cancelling Machines)

### 7116—Tie Dowelling Machines
Greenlee Bros. Co., 9 Jackson blvd, Chicago, Ill.

### 7117—Tiering Machines (Portable)
(See also Elevators, Revolving Portable)
Economy Engineering Co., 415 S Washlenan av, Chicago, Ill.
Minnich Machine Works, Landisville, Pa.

### 7118—Tile Ditching Machines
Bennett, H. L. & Co., Westerville, O.
Municipal Engineering & Contracting Co., R'y Exch bldg, Chicago, Ill.
St. Paul Machinery Mfg. Co. ("Hovland"), St. Paul, Minn.

### 7119— Tile Facing Machines
Lincoln Iron Works, Rutland, Vt.

### 7120— Tile Making Machines
(See also Drain Tile Machinery)
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Hetherington & Berner Co. (Encaustic Ceramic), Indianapolis, Ind.
Hill, Jas. B. (Traction), Deshler, O.
Patterson Foundry & Machine Co., East Liverpool, O.
Queen City Punch & Shear Co., Cincinnati, O.
Raymond, C. W. Co., Dayton, O.
Trenton Machine Specialty Co., Trenton, N. J.

### 7121— Tile Sizing Machines
Lincoln Iron Works, Rutland, Vt.

### Timber Dressing Machines
(See Wood Surfacing Machines)

### 7122—Timber Graining Machines
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.

### 7123—Timber Preserving Machinery
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

### Timber Sizing Machines
(See Planers & Matchers)

### 7124— Tin Can Machinery
(See Can Makers' Machinery; also Sheet Metal Workers' Machines & Tools)

### 7125— Tin Foil Machinery
Blake & Johnson Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 7126—Tin Plate Lacquering & Varnishing Machines
Ohl, Geo. A. & Co. (For Coating Tin, Iron, Metal, Cardboard, etc.), 157 Oraton, Newark, N. J.

### 7127—Tin Plate Mill Machinery
(See also Rolling Mill Machinery, Etc.)
Aetna Foundry & Machine Co., Warren, O.
American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.
Anderson Foundry & Machine Works (Pickling & Tinning Machines, Branners, Dusters, etc.), Anderson, Ind.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Braddock Machine & Mfg. Co., Braddock, Pa.
Elwood Iron Works, Elwood, Ind.
**FAWCUS MACHINE CO., Pittsburg,** Pa. (See adv. index, end of book)
Hyde Park Foundry & Machine Co., Hyde Park, Pa.
Mesta Machine Co., Pittsburg, Pa.
National Roll & Foundry Co., Avonmore, Pa.
Newbold, R. S. & Son Co., Norristown, Pa.
Pennsylvania Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., S 23d & Washington, av, Phila., Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Stevenson Co., Wellsville, O.
**UNION FOUNDRY & MACHINE CO.** (Picklers, Tin Machines, Branners, Polishers, etc.). Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Fdry Co., Pittsburg, Pa.
Swindell, Wm. C. & Bro., Pittsburg, Pa.
Wheeling Mold & Fdry Co., Wheeling, W. Va.

### 7128—Tinners' Grooving Machines
Barber Mfg. Co., Ashtabula, O.

### Tinners' Tools & Machinery
(See Sheet Metal Workers' Machines & Tools)

### 7129— Tinning Machinery
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)

### 7129a—Tinware Making Machinery (Pieced & Seamless)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 7130— Tipping Machines
Kester Electric Mfg. Co. (Improved Automatic), 251 S Jefferson, Chicago, Ill.
Chicago Solder Co. (Improved Automatic), 218 N Union, Chicago, Ill.

### 7131— Tire Applying Machines
Nelson & Le Moon, 605 W Monroe, Chicago, Ill.
Ross Machine Mfg. Co. ("Linn"), Jamestown, N. Y.

### 7132— Tire Bolting Machines
Nelson & Le Moon, 605 W Monroe, Chicago, Ill.
Bentel & Margedant Co. (& Bolt Clipping), Hamilton, O.
National Steam Pump Co. ("Reynolds"), Upper Sandusky, O.

### 7133— Tire Drilling Machines
Reed, Francis Co., Worcester, Mass.

### 7134— Tire Rolling Machines
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Williams, White Co., Moline, Ill.

### Tire Setting Machines
(See Setters, Tire)

### 7135— Tire Trueing Machines
Bentel & Margedant Co., Hamilton, O.

### 7136— Tire Welding Machines
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Kane & Roach, Syracuse, N. Y.
**LONG & ALLSTATTER CO., Hamil**ton, O. (See adv. index, end of book)
Williams, White & Co., Moline, Ill.

### 7137— Tissue Paper Machines
Beloit Iron Works, Beloit, Wis.

### 7137a—Tobacco Box (Tin) Machinery
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 7138—Tobacco Cutting Machines
(See also Cutters, Tobacco)
Adt, Jno. B., 332 N Holliday, Baltimore, Md.
Buckeye Iron & Brass Works ("Pease"), Dayton, O.
Himoff Machine Co., 128 Mott, New York
Ludington Cigarette Machine Co., Waterbury, Conn.

### 7139—Tobacco Farming Machinery
Ball, Mitchel & Co., Maysville, Ky.
Belcher & Taylor Agricultural Tool Co. (Ridgers), Chicopee Falls, Mass.
Cardwell Machine Co., Richmond, Va.
Fuller & Johnson Mfg. Co. (Hoes), Madison, Wis.
Iowa Farming Tool Co. (Hoes), Fort Madison, Iowa
Nagley Mfg. Co. (Spears), Lyons, N. Y.

### 7140—Tobacco Hoeing Machines
Allen, S. L. & Co., 1071 Market, Phila., Pa.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Fuller & Johnson Mfg. Co., Madison, Wis.

### 7141—Tobacco Knife Grinding Machines
Diamond Machine Co., Providence, R. I.
Superior Corundum Wheel Co., Waltham, Mass

### 7142— Tobacco Machinery
Adt, Jno. B. (Granulators, Separators, Cutters, Dryers, Coolers, Stem Rollers & Packers), 332 N Holliday, Baltimore, Md.
Buckeye Iron & Brass Works (Cutting), Dayton, Ohio
Cardwell Machine Co. (Granulators, Packers, Dyers, Cutters, Shapers or Moulds & Casing Machines), Richmond, Va.
Danbery Foundry Co. ("Parker" Portable Presses, Steamers, Stationary Screws, etc.)
Erie Specialty Co., Erie, Pa. Ripley, O.
Ermold, Edw., 652 Hudson, New York
Ludington Cigarette Machine Co., Waterbury, Conn.
McGowan, Jno. H. Co., Cincinnati, O.
Mayo, Hysore & Co., Richmond, Va.
Miller, Dubrul & Peters Mfg. Co., Cincinnati, O.
Petersburg Iron Works Co., Petersburg, Va.
Phila. Textile Machinery Co. (Automatic Dryers, Coolers, Orderers & Softeners, etc.),
Titus, E. E., Petersburg, Va. Phila., Pa.
Westbrooks Elevator Co., Danville, Va.

### 7143— Toilet Paper Machines
Dietz Machine Works (Slitting, Separating & Rewinding), 126 Fontain, Phila., Pa.

### 7144— Toilet Pin Machinery
Baird Machine Co., Oakville, Conn.

### 7144a— Toilet Soap Machinery
Rutschman, Oscar F., 426 Berks, Phila., Pa.

### Tomato Can Filling Machines
(See Can Filling Machines)

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### 7145—Tomato Canners' Machinery

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### 7146—Tomato Transplanting Machines

**SPRAGUE CANNING MACHINERY** Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

### Tool Grinding Machinery

(See Grinders, Plain Tool; also Grinders, Wet Tool)

### 7147— Tow Mill Machinery

New Winona Mfg. Co. ("Diamond" for Coarse, Fine or Medium Tow), Winona, Minn.

### 7148— Towing Machines

American Ship Windlass Co. (Automatic Steam), Providence, R. I.
Chase Machine Co. (Automatic Steam), Cleveland, O.

### 7149— Trace Trimming Machines

Campbell-Bosworth Machinery Co. ("Boston" Automatic), Boston, Mass.

### 7150—Transfer Issuing Machines

Automatic Appliance Co., Boston, Mass.
Ohmer Fare Register Co., Dayton, O.
Transfer Issuing Machine Co., 53 State, Boston, Mass.

### 7151—Traveling Bed Planing Machines

Berlin Machine Works, Beloit, Wis.
Chase Turbine Mfg. Co. (Planers, 24-in. Wide to 12-in. Thick), Orange, Mass.

### Trench Machines

(See Sewer & Trench Excavating Machines)

### 7152—Trimming Machines, (Paper, Cloth, Leather, Etc.)

**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 7153— Tripping Machines

Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.

### 7154— Trunk Machinery

Ohl, Geo. A. & Co. (Slat Machines for Staining Trunk Slats, etc.), 157 Oraton, Newark, N. J.
Sutton, C. E. Co. (For Turning Grooves in Trolley Wheels, etc.), Toledo, O.
Titus, E. E., Petersburg, Va.

### 7155—Trunk Slat Staining & Varnishing Machines

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

### 7156— Tub & Pail Machinery

**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Gerlach, Peter Co. (Also for Churn, Ice Cream Freezer, Fish Kit, etc.), Cleveland, O.
Goodspeed Machine Co., Winchendon, Mass.
Humphrey Machine Co., Keene, N. H.

### 7157— Tubbing Machines

Grammes, L. F. & Sons, Allentown, Pa.
Smith & Richardson (Or Polishing Tank), Attleboro, Mass.

### 7158— Tube Cutting Machines

Grant-Lees Machine Co., Cleveland, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

### 7159— Tube Filling Machines

Ross, Chas. & Son Co. (For Paste, Oil & Cosmetics), 148 Classon av, Brooklyn, N. Y.

### 7160—Tube Machinery (Soft Metal)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### Tube Mill Machinery

(See Pipe & Tube Mill Machinery)

### 7161—Tube Polishing Machines

Blevney, Jno. C. ("Blevney"), Newark, N. J.
Tube Bending Machine Co., Newark, N. J.

### 7162—Tube Reducing Machines

Standard Machinery Co., Providence, R. I.

### 7163—Tube Rolling & Cutting Machines (Paper)

Chicago Paper Tube & Can Co. ("Williams"), 20 N May, Chicago, Ill.

### 7164— Tube Tapering Machines

Excelsior Needle Co., Torrington, Conn.

### 7165— Turnable Machinery

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

### 7166— Turpentine Machinery

Victor Turpentine Machine Co., Jacksonville, Fla.

### Twine Making Machinery

(See Cordage Machinery)

### 7167—Twisting Machines (Steel Rod)

**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

### 7168— Type Casting Machines

Universal Automatic Type Casting Machine Co. ("Nuernberger-Rettig" Automatic), 323 Sheldon, Chicago, Ill.

### 7169—Type Setting & Type Distributing Machines

Brown, R. H. & Co., New Haven, Conn.
Lanston Monotype Machine Co. (Typesetting), 1231 Callowhill, Phila., Pa.
Mergenthaler Linotype Co., Tribune bldg, New York
Rotary Composing Machine Co., 261 B'way, New York; Works: 159 Water, Brooklyn, N. Y.
Unitype Co. ("Simplex"), 150 Sands, Brooklyn, N. Y.

### Universal Grinding Machines

(See Grinders, Universal)

### 7170—Upsetting & Forging Machines

(See also Upsetters, Tire)

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co. (Axle), 3330 Lakeside av, N. E., Cleveland, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Williams, White & Co. ("Moline" Upsetting & Forging), Moline, Ill.

### 7171— Vacuum Machinery

**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book)

### 7172—Valve Inserting Machines

Hoefer Mfg. Co., Freeport, Ill.
Smith, A. P. Mfg. Co. ("French" & "Sherred"), East Orange, N. J.

### 7173—Valve Re-seating Machines

Crowell, D. J. ("Nold"), 61 Terrace, Buffalo, N. Y.
General Pump Appliance Co., 149 B'way, New York
Howes, S. Co., Silver Creek, N. Y.
Huxley Valve Co. ("Huxley" Valve Refacing & Valve Remodeling Machines), 753 7th, Buffalo, N. Y.
Lagonda Mfg. Co. ("Weinland"), Springfield, O.
Leavitt Machine Co. ("The Morse" & "Dexter"), Orange, Mass.
Long, Adam A. ("Sterling"), Rochester, N. Y.
Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

### 7174—Valve Seat-Milling Machines

American Tool & Machine Co., 109 Beach, Boston, Mass.
Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

### 7175—Valve Seat Planing Machines

Niles-Bement-Pond Co., 111 B'way, New York
Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa.

### 7176—Valve Wheel Machinery

Bradley, H. C. (For Wood Wheels), Bridgeport, Conn.

### 7177— Vanning Machines

Power & Mining Machinery Co. (For Line Concentration), Cudahy, Wis.

### 7178—Variety Moulding Machines

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
American Woodworking Machine Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Carey, W. W. Co., Lowell, Mass.
Pryibil, P., 506 W 41st, New York
Sidney Tool Co. (Molding & Shaping), Sidney, Ohio

### 7179—Variety Sawing Machines

American Woodworking Machine Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Rechtin Co., Cincinnati, O.
Greaves, Klusman & Co., Cincinnati, O.
Root, B. M. Co., York, Pa.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

### 7180—Variety Wood Turning Machines

(See Also Lathes, Variety Turning)

American Woodworking Machine Co., Rochester, N. Y.
Berlin Machine Works, Beloit, Wis.
Mattison, C. Machine Works ("Universal"), Beloit, Wis.

### 7181— Varnish Can Machinery

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 7182—Varnish Makers' Machinery

Kent Machine Works, 39 Gold, Brooklyn, N. Y.
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

### 7183— Varnishing Machines

Chambers Bros. Co., 52d bel. Lancaster av, Philadelphia, Pa.
**KNOWLTON, M. D. CO., Rochester,** N. Y. (See adv. index & branch offices, end of book)

### 7184—Varnishing Machines for Rubber Mills

Birmingham Iron Foundry, Derby, Conn.

### 7185—Vegetable Cutting Machines

Smith's, Jno. E. Sons, Buffalo, N. Y.

### 7186— Vending Machines

Advance Machine Co., 4645 E Ravenswood pk, Chicago, Ill.
American Automusic Co., 53 B'way, New York
American Stamp & Ticket Vending Machine Co. (Stamp & Ticket), 162 Wooster, New York
Automatic Machine & Tool Co., 210 N Ann, Chicago, Ill.
Automatic Perfume Vending Co. (Perfume), 609 Asquith, Baltimore, Md.

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Automatic Target Machine Co. (Target), 203 Fulton, New York
Automatic Vending Co., 240 W 23d, New York
**Becker, P. A. (Collar Button), 451 Hudson av, Brooklyn, N. Y.**
Bennett & Co. (Cigar), Kalamazoo, Mich.
Boston Coin Machine Co., 381 Albany, Boston, Mass
Caille Bros. Co. (Coin Operating), 1300 2d av, Detroit, Mich.
Cowper Mfg. Co. (Coin Operating), 1300 2d av,
Griswold Mfg. Co. (Card, Gum, etc.), Rock Island, Ill.
Grover & Haskell (Slot), 381 Albany, Boston, Mass.
Gum & Sweetmeat Co., 60 Murray, New York
Hilo Gum Co., 123 West 46th, Chicago, Ill.
Joy, Chas. H., 450 S Jefferson, Chicago, Ill.
Machine Mfg. Co. ("Vending"), Hoboken, N. J.
Mills Novelty Co. (Candy, Cigar, Cigarette. Gum, Peanut, Package, etc., Coin Operating), 221 S Green, Chicago, Ill.
Mitchell Mfg. Co., Portsmouth, O.
National Automatic Weighing Machine Co. (Coin Operating), 60 Murray, New York
National Photograph Machine Co. (Photograph), 85 Beaver, New York
Price Collar Button Machine Co. (Collar Button), 42 Chauncey, Boston, Mass.
Public Sales Co., 165 B'way, New York
Puritan Machine Co. (Ltd.), Detroit, Mich.
Roovers Mfg. Co. (Name Plate. etc.), 170 B'way, New York
Rosenfield Mfg. Co. (Coin Operating, etc.), 585 Hudson, New York
Sicking Mfg. Co. (Card Playing). Cincinnati, Ohio
Star Gum Co., 750 W Van Buren. Chicago, Ill.
True Blue Gum Co. (Gum), Lansing, Mich.
Turner Brass Works, Sycamore, Ill.
United Centadrink Mfg. Co., 1440 B'way, New York
**VOELKNER & HARRY MANUFAC**turing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
Waddell Woodenware Works Co.. Greenfield, O.
Watling Mfg. Co. (Coin Operating), 728 W Jackson boul, Chicago, Ill.

## 7187—Veneer Cutting Machines

Bentel & Margedant Co. (Rip & Cross Cut Saws), Hamilton, O
Berlin Machine Works, Beloit, Wis.
Capital Machine Works, Indianapolis, Ind.
Coe Mfg. Co. (Rotary, Slicing & Sawing). Painesville, O
Hubbard's, Norman Sons ("Rochow"), 26 Water, Brooklyn, N. Y
Merritt Mfg. Co. (Rotary, a Six-Bearing Veneer Lathe & Direct Feed Automatic Veneer Clipper), Lockport, N. Y
St. Joseph Iron Works (Veneer Lathes), St Joseph, Mich
Titus, Elmer E., Petersburg. Va.
Trevor Mfg. Co. (For Crate Slats, etc.), Lockport, N. Y.

## 7188— Veneer Drying Machines

Coe Mfg. Co. (Automatic), Painesville, O.
Merritt Mfg. Co. ("Merit-Gale"), Lockport, N. Y.

## 7189— Vermicelli Machinery

City Machine Co., Cleveland, O.
**WERNER & PFLEIDERER, Saginaw, Mich.** (See adv. index, end of book

## 7190— Vinegar Machinery

Kaestner & Hecht Co. (Inc.), 440 S Jefferson Chicago, Ill

## 7191— Voting Machines

Bardwell Votometer Co., 17 Park row, New York
Davis Voting Machine Co., 15 Park Row, New York
Grant Mfg. & Machine Co., Bridgeport, Conn.
International Voting Machine Co., Elgin, Ill.
National Voting Machine Co., Adrian, Mich.
Triumph Voting Machine Co., Pittsfield, Mass

## Wagon Builders' Machinery

(See Carriage Builders' Machinery)

## 7192— Wall Paper Machinery

Marresford, Wm. F., 56 Pearl, Brooklyn, N. Y
Waldron, Jno. Co., New Brunswick, N. J.

## 7193—Washer Cutting Machines

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
National Machinery Co., Tiffin, O.
Pawtucket Mfg. Co., Pawtucket, R. I.

## Washing Machines

(See Washing Machines in the Letter W)

## 7194—Waste Product Machinery for Packing Houses

Joslin, Schmidt & Co. (Glue Works, Soap Factories, etc.), Cincinnati, O.

## 7195— Watch Case Machinery

Cavagnaro, Jno. J., 255 Centre, New York

## Watchmakers' Machinery

(See Clock & Watchmakers' Machinery)

## 7196—Waxing Machines (Paper, Cloth, Leather, Etc.)

**KNOWLTON, M. D. CO., Rochester.** N. Y. (See adv. index & branch offices end of book

## Weighing Machines (Automatic)

(See Automatic Weighing Machines)

## 7197—Weighing, Packing & Bagging Machines (Automatic)

Automatic Machine & Tool Co., 210 N Ann. Chicago, Ill.
**SCHULE, F. H. CO., 114-118 Liberty**, New York. (See adv. index, end of book)

## 7198— Welding Machines

Sanford, F. C. Mfg. Co. ("Sanford," Portable), Bridgeport, Conn.

## 7199—Welding Machines (Electric)

Brown, Will H., 600 Schofield bldg, Cleveland, Ohio
Electric Railway Improvement Co., Cleveland, Ohio
Thomson Electric Welding Co., Lynn, Mass.
Toledo Electric Welding Co., Cincinnati, O.
Warren Electric Mfg. Co., Sandusky, O.
Winfield Mfg. Co., Warren, O.

## 7200— Well Drilling Machinery

Ajax Iron Works, Corry, Pa.
Alamo Iron Works, San Antonio, Tex.
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Armstrong-Quam Mfg. Co., Waterloo, Ia.
Austin Mfg. Co., Manhattan bldg, Chicago, Ill.; Works: Harvey, Ill.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Brockett, C. A. Cement Co., 121 W 8th, Kansas City, Mo.
Cyclone Drill Co., Orrville, O.
Dempster Mill Mfg. Co., Beatrice, Neb.
Everhard Co., Massillon, O.
**Flint & Walling Mfg. Co., Kendallville, Ind.**
Fort Smith Well Drill Mfg. Co., Fort Smith, Ark.
Hardy Machine Co. (Oil & Gas), North Baltimore, O.
Howell, R. R. & Co., Minneapolis, Minn.
Indiana Road Machine Co., Fort Wayne, Ind.
Keystone Driller Co., Beaver Falls, Pa.
Keystone Pump Mfg. Co., Beaver Falls, Pa.
La Crosse Well Drill Works, La Crosse, Wis.
**Leidecker Tool Co., Marietta, O.**
**Lisle Mfg. Co., Clarinda, Ia.**
Loomis Machine Co. ("Clipper"), Tiffin, O.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Novelty Iron Works (G. E. Davis, Prop.) ("Dubuque"), Dubuque, Iowa
**OIL WELL SUPPLY CO. (Oil Well,** etc.), 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Pech, Gus Foundry & Mfg. Co., Le Mars, Ia
Red Cross Mfg. Co., Bluffton, Ind.
Rockford Engine Works (Well Drilling Outfit on Wheels Equipped with Gasoline Engine), Rockford, Ill.
Rockford Iron Works, Rockford, Ill.
St. Louis Well Machine & Tool Co., St. Louis.
Sparta Iron Works Co., Sparta, Wis.
Star Drilling Machine Co. (Portable), Akron, O
Titusville Iron Co., Titusville, Pa.
United Iron Works Co., Springfield, Mo.
Van Zandt-Moore Iron Works, Fort Worth, Tex
Williams Bros., Ithaca, N. Y.

## 7201— Well Drilling Machinery (Adamantine Coring)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 7202—Well Drilling Machinery (Rotary Boring)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 7203—Well Machines (Belt Driven)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 7204—Wet Machines (Paper Mill)

Bagley & Sewell Co., Watertown, N. Y.
Beloit Iron Works, Beloit, Wis.
Carthage Machine Co., Carthage, N. Y.
Clark, H. C. & Son Machine Co., Lee, Mass.
Dilts Machine Co., Fulton, N. Y.
Emerson Mfg. Co., Lawrence, Mass.
Friction Pulley & Machine Works, Hudson Falls, N. Y.
Holyoke Machine Works, Holyoke, Mass.
Improved Paper Machinery Co., Nashua, N. H.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.

## 7205— Wheel Facing Machines

Bentel & Margedant Co., Hamilton, O.

## 7207— Wheel Machinery

Bentel & Margedant Co., Hamilton, O.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.

## 7208—Wheel Polishing Machines

Bentel & Margedant Co., Hamilton, O.

## 7209—Wheel-Rim Turning Machines

Pratt & Whitney Co., Hartford, Conn.

## 7210—Wheel Tenoning Machines

Bentel & Margedant Co., Hamilton, O.

## 7211—Wheel Thread Sanding Machines

Bentel & Margedant Co., Hamilton, O.

## 7212—Whip Makers' Machinery

Moore, M. E. & Son, Westfield, Mass.

## 7213—Whisk Broom Machinery

(See also Broom Machinery)
Cassard, Hamilton, Baltimore, Md.

## 7215— White Lead Machinery

Campbell, Peter F., 51 Laurel, Phila., Pa.
Cresson, Geo. V. Co., Allegheny, av, W of 17th, Phila., Pa.
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Greenwald, I. & E. Co., Cincinnati, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N.Y.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Thompson & Campbell, 1030 Germantown av, Phila., Pa.

## Whitewash Spraying Machines

(See Paint & Whitewash Spraying Machines)

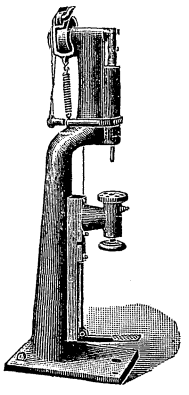
## 7216—Whiting Machines for Picture Frames

Andrew, M. L. & Co., Cincinnati, O.

## 7217—Whiting Works Machinery

Campbell, P. F., 55 Laurel, Phila., Pa.

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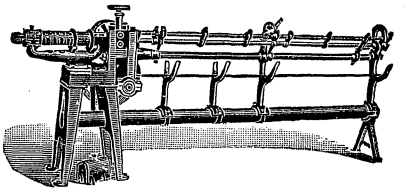
**Automatic Labor Saving Machinery for Wire and Sheet Metal Goods a Specialty.**

**BUILDERS OF MACHINERY FOR HARDWARE MANUFACTURE.**

Butt Milling Machinery. Butt Drilling Machinery. Riveting Machines. Wire Straightening Machines. Foot Presses. Sprue Cutters, etc.

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Automatic Wire Straightening and Cutting Machine.


### 7218—Winding Machines (Paper, Cloth, Leather, Etc.)

**KNOWLTON, M. D. CO., Rochester** N. Y. (See adv. index & branch offices end of book)

### 7219—Window Frame Machinery

**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
Smith & Phillips Mfg. Co., 412 N Sangamon Chicago, Ill.
Wachusett Machine Co., Fitchburg, Mass.

### 7220—Wine Making Machinery

Emeny, G. J. Co. (Cider Mill Machinery), Fulton, N. Y.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Klotz Machine Co., Sandusky, O.
Krogh Mfg. Co., San Francisco, Cal.

### 7221—Wiping & Packing Waste Machinery

Ford, H., Springfield, Mass.

### 7223— Wire Barbing Machines

Bates Machine Co., Joliet, Ill.
Emery, Wilber (High Speed), Wilmington Del.

### 7224—Wire Barrel Hoop Machines

Gilmour Hogshead Machine Co., Owensboro, Ky.

### 7225—Wire Bound Box Machinery

Wirebounds Corp., 105 W 40th, New York

### 7226—Wire Cloth Measuring Machines

Schriver, O. P. & Co. ("I. X. L."), Cincinnati, Ohio

### 7227—Wire Cloth Weaving Machines

Crompton & Knowles Loom Works, Worcester
Diamond Wire Web Co., Columbus, O. Mass.

### Wire Covering Machinery

(See Wire & Cable Covering Machinery)

### 7228— Wire Crimping Machines

Automatic Machine Co., Bridgeport, Conn.
Blake & Johnson Co., Waterbury, Conn.
Cady Machine Co. (Automatic), Cleveland, O.
Diamond Wire Web Co. ("McCallip" Automatic), Columbus, O.
**FRANKLIN MFG. CO., New Haven,** Conn. (See adv. index, end of book)
Manville, E. J., Machine Co., Waterbury, Conn
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)
Smurr & Kamen Machine Co. (Crimping, Cutting & Counting Combined), 313 Sacramento ct, Chicago, Ill.
Standard Machinery Co., Providence, R. I.
Waterbury Farrel Foundry Co., Waterbury. Conn
**WRIGHT WIRE CO., Worcester,** Mass.

### 7229— Wire Drawing Machinery

Bates Machine Co., Joliet, Ill.
Currier, Cyrus & Sons, Newark, N. J.
**FRANKLIN MFG. CO., New Haven,** Conn. (See adv. index, end of book)
Ford & Donnelly, Kokomo, Ind.
Humphrey & Sons ("Humphrey," Wire Drawing Benches, etc.), Joliet, Ill.
McWilliams, Thos. Draw Benches), Providence, R. I.
MacKenzie's, Duncan Sons Co., Trenton, N. J.
Morgan Construction Co., Worcester, Mass.
Richard Mfg. Co., Bloomsburg, Pa.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)
Standard Machinery Co., Providence, R. I.
Torrington Mfg. Co., Torrington, Conn.
Turner, Vaughn & Taylor Co., Cuahoga Falls, Ohio
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WRIGHT WIRE CO. (Wire Drawing** Frames), Worcester, Mass.

### 7230—Wire Forming Machinery

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
Atlas Machine Co., Waterbury, Conn.
Automatic Machine Co., Bridgeport, Conn.
Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Cady Machine Co. (Automatic), Cleveland, O.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
**FRANKLIN MFG. CO., New Haven,** Conn. (See adv. index, end of book)
Leffler, Chas. & Co., 49 Clymer, Brooklyn, N. Y.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J., Machine Co., Waterbury, Conn.
Morgan Spring Co., Worcester, Mass.
Nilson, A. H., Machine Co. (Automatic). Bridgeport, Conn.
**SHUSTER, F. B. CO. (Automatic),** New Haven, Conn. (See adv. index, end of book)
Smurr & Kamen Machine Co., 313 Sacramento ct, Chicago, Ill.
Special Machinery Co., Bridgeport, Conn.
Standard Machinery Co., Providence, R. I.
Up-to-Date Mfg. Co., Terre Haute, Ind.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wire Specialty Works, 549 Fulton, Chicago, Ill.

### 7231—Wire Galvanizing Machinery

Bates Machine Co., Joliet, Ill.
Morgan Construction Co., Worcester, Mass.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
**WRIGHT WIRE CO., Worcester,** Mass.

### 7232— Wire Handle Machines

**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel" Automatic), 135 Adams, Chicago, Ill. **(See** adv. index & branch offices, end of book)

### 7233— Wire Heading Machines

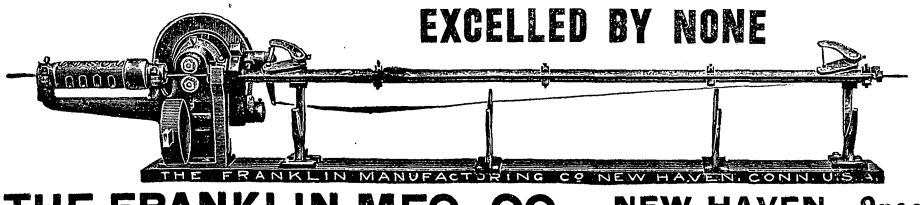
Blake & Johnson Co., Waterbury, Conn.

### Wire Insulating Machinery

(See Wire & Cable Covering Machinery)

### 7234— Wire Machinery

Aetna Foundry & Machine Co. (Wire Mill), Warren, O.
**AMERICAN CAN CO. (Mach'y Dept.),** 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Bates Machine Co., Joliet, Ill.
**FRANKLIN MFG. CO., New Haven,** Conn. (See adv. index, end of book)
Hinkley, A. H., Providence, R. I.
Humphrey & Sons (Everything for Wire Mills), Joliet, Ill.
Kilby Mfg. Co., Cleveland, O.
MacKenzie's Duncan Sons Co. (Draw Benches & Annealers), Trenton, N. J.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
Richard Mfg. Co., Bloomsburg, Pa.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)
Turner, Vaughn & Taylor Co. (Wire Mill), Cuyahoga Falls, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Watson Machine Co., Paterson, N. J.
**WRIGHT WIRE CO., Worcester,** Mass.


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Our Automatic Wire Straightening and Cutting Machine, SPEEDY, DURABLE, ECONOMICAL, and cuts ACCURATE LENGTHS. Handles wire 3-16 in. to 1-16 in. diameter, cutting 6 foot lengths and shorter.

**THE FRANKLIN MFG. CO., NEW HAVEN, CONN.** **Special Automatic Machinery**


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### 7235—Wire Mattress Machinery
(See also Woven Wire Mattress Machinery)
Cavagnaro, John J., 255 Center, New York
Houchin, Aiken Co., 37 53d, B'klyn, N. Y.
Hunter, Jas. Machine Co., N. Adams, Mass.
Ivens, Wm. H. Sons Co., Trenton, N. J.

### 7236—Wire Measuring Machines
Anderson, Homer, Peekskill, N. Y.
Minneapolis Electric & Construction Co., Minneapolis, Minn.
Moore, S. L. & Sons Corp., Elizabeth, N. J.
New England Butt Co., Providence, R. I.
Root, C. J. Co., Bristol, Conn.
Textile Machine Works, Reading, Pa.
Watson Machine Co., Paterson, N. J.

### 7237—Wire Nail Barbing Machines
Bates Machine Co., Joliet, Ill.
Miller's, H. J. Sons ("Improved Perkins"), Bridgewater, Mass.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

### 7238—Wire Nail Cleaning Machines
Spicer Mfg. Co., New Philadelphia, O.

### Wire Nail Machinery
(See Nail Mill Machinery)

### 7239—Wire Pointing Machinery
(See also Swaging Machines)
Baird Machine Co., Oakville, Conn.
Bates Machine Co., Joliet, Ill.
Excelsior Needle Co., Torrington, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 7240— Wire Rivet Machines
Cook, Asa S. Co., Hartford, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Perkins, Henry J., Bridgewater, Mass.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 7241—Wire Rolling or Flattening Machines
**WRIGHT WIRE CO., Worcester,** Mass.

### 7242—Wire Rope Making Machinery
Watson Machine Co., Paterson, N. J.

### 7243— Wire Spooling Machines
Cady Machine Co., Cleveland, O.
Koegel, Chas. & Sons, Holyoke, Mass.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Watson Machine Co., Paterson, N. J.
**WRIGHT WIRE CO., Worcester,** Mass.

### 7244—Wire Spring Coiling Machines
(See also Spring Coiling Machines)
Baird Machine Co., Oakville, Conn.
Garvin Machine Co., 137 Varick, New York
Manville Bros. Co., Waterbury, Conn.
Manville, F. J. Machine Co., Waterbury, Conn.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 7245— Wire Spring Machinery
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

### 7246—Wire Stapling Machinery
Cobden Machine Works, Cobden, Ill.
Merritt Mfg. Co., Lockport, N. Y.
St. Joseph Iron Works (For Baskets, Packages, etc.), St. Joseph, Mich.
Saranac Machine Co. ("Advance" for Baskets. Boxes, Fruit Package, Butter Dish, etc.), St. Joseph, Mich.

### 7247— Wire Stitching Machines
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Brown, R. H. & Co., New Haven, Conn.
Hinze, H., Tribune bldg, New York
Latham Machinery Co. ("Monitor"), 306 S Canal, Chicago, Ill.
N. J. Wire Stitching Machine Co., Camden, N. J.
Saranac Machine Co. ("Advance" for Books & Pamphlets), St. Joseph, Mich.
Sheridan, T. W. & C. B. Co., 56 Duane, New York

### 7248—Wire Straightening Machines Roll & Rotary)
Morgan Spring Co., Worcester, Mass.
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

### 7249—Wire Straightening & Cutting Machines
Adt, Jno. & Son (Automatic), New Haven, Conn.
**AMERICAN CAN CO. (Machinery** Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Baird Machine Co., Oakville, Conn.
Chandler & Farquhar Co., Boston, Mass.
Cross & Speirs Machine Co. (Automatic), Waterbury, Conn.
**FRANKLIN MFG. CO. ("Cracker Jack" Straightening Machine),** New Haven, Conn. (See adv. index, end of book)
Gregg Mfg. Co. ("Gregg" Automatic Core Wire), 1318 W 4th, Cleveland, O.
Greiner, Chas. Co. (Automatic), New Haven, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Morgan Spring Co. (Automatic), Worcester, Mass.
Nilson, A. H. Machine Co., Bridgeport, Conn.
**SHUSTER, F. B. CO. (Automatic),** New Haven, Conn. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WRIGHT WIRE CO., Worcester,** Mass.

### 7250—Wire Straightening & Forming Machines
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 7252—Wire Stranding Machines
New England Butt Co., Providence, R. I.
Textile Machine Works, Inc., Reading, Pa.
Watson Machine Co., Paterson, N. J.

### Wire Testing Machines
(See Testing Machines, Wire)

### 7253— Wire Twisting Machines
Bates Machine Co., Joliet, Ill.
Watson Machine Co., Paterson, N. J.

### 7254—Wire Weaving Machinery
(See Wire Cloth Weaving Machines)
Crompton & Knowles Loom Works, Worcester, Mass.

### 7255—Wire Winding Machinery
American Insulating Machinery Co., Hancock & Oxford, Phila., Pa.
Koegel, Chas. & Sons, Holyoke, Mass.
Morgan Construction Co., Worcester, Mass.
New England Butt Co., Providence, R. I.
**WRIGHT WIRE CO. (Winding-Up),** Worcester, Mass.

### 7256—Wire & Cable Covering Machinery
American Insulating Machinery Co., Hancock & Oxford, Phila., Pa.
Brooks, Chas. J., New Haven, Conn.
Clark, Edred W., Hartford, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
Knoblock-Heideman Mfg. Co., South Bend, Ind.
Moore, S. L. & Sons Corp., Elizabeth, N. J.
New England Butt Co., Providence, R. I.
Rhode Island Braiding Machine Co., Providence, R. I.
Royle, John & Sons (Inc.), Paterson, N. J.
Textile Machine Works (Inc.), Reading, Pa.
Tunelius Machine Co., 232 S Clinton, Chicago, Ill.
Universal Winding Co., Boston Mass.
Watson Machine Co., Paterson, N. J.
**WATSON-STILLMAN CO. (Cable Covering),** 38 Church, New York. (See adv. index, end of book)

### 7257—Wire & Cable Polishing Machines
New England Butt Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

### Wood Band Sawing Machines
(See Band Sawing Machines)

### 7258—Wood Barking Machines
Appleton Machine Co., Appleton, Wis.
Baker & Shevlin Co. ("C. Bachewug," Barking Drum), Saratoga Springs, N. Y.
Bellows Falls Machine Co., Bellows Falls, Vt.
Holyoke Machine Co., Holyoke, Mass.
Kline, Lewis T., Alpena, Mich.
Portland Co., Portland, Me.
Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.
Scott, Olin, Bennington, Vt.
Trevor Mfg. Co., Lockport, N. Y.
Valley Iron Works Co., Appleton, Wis.

### 7259—Wood Bending Machines
American Woodworking Machine Co., Rochester, N. Y.
Defiance Machine Works (Rim, Felloe, etc.), Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Root, B. M., Co., York, Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Superior Iron Works Co., Superior, Wis.

### 7260— Wood Boring Machines
(See also Pneumatic Wood Boring Machines)
American Woodworking Mach'y Co., Rochester, N. Y.
Andrew, M. L. & Co. (Multiple Spindles), Cincinnati, O.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Carey, W. W. Co., Lowell, Mass.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Cowdrey, C. H. Machine Works, Fitchburg, Mass.
Defiance Machine Works, Defiance, O.
Dennis Machine Co., Jackson, Mich.
Eagle Square Mfg. Co. (Carpenters' Hand), South Shaftsburg, Vt.
Erie Machine Shops, Erie, Pa.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer Machine Works (Multiple Adjustable), 1845 Carroll av, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Garvin Machine Co., Varick & Spring, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.; Factory: Rockford, Ill.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hayes, E. B. Machine Co., Oshkosh, Wis.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Jenkins Machine Co. (Upright Iron Post), Sheboygan, Wis.
Nash, J. M. ("Universal" Power Feed Multople Spindle), Milwaukee, Wis.
Ober Mfg. Co. (Combined Boring & Chucking), Chagrin Falls, O.
Oliver Machinery Co., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Pringle & Brodie Machinery Co. (Multiple Spindle, Vertical & Horizontal), 514 S Canal, Chicago, Ill.
Smith, H. B. Machine Co., Smithville, N. J.
Superior Iron Works, Superior, Wis.
Valley City Machine Works (Double Spindle, Radial & Vertical), Grand Rapids, Mich.
White, Jno. A. Co., Dover, N. H.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

### 7261—Wood Boring Machines (Hand Power)
Ajax Mfg. Co. ("Ajax," "Phillips," Self-Withdrawing), Pittsburg, Pa.

### 7262—Wood Boring Machines (Multiple)
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Fischer, E. Machine Works (Adjustable), 345 Canal, Chicago, Ill.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.

### 7263— Wood Carving Machines
**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)
American Woodworking Mach'y Co., Rochester, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.

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Hall & Brown Wood Working Machine Co., St. Louis, Mo.
**Moore Carving Machine Co. ("Lochman," "Moore"), Minneapolis, Minn.**
Porter, C. O. Machinery Co., **Grand Rapids, Mich.**
Valley City Machine Works ("Flying Dutchman," "Invincible," "Peerless," "Challenge," Carving Lathes), Grand Rapids, Mich.

## 7264—Wood Chucking Machines

Jenkins Machine Co. (Double), Sheboygan, Wis.

## 7265—Wood Clipping Machines

Wetherill, Robt. & Co. (Inc.), Chester, Pa.

## 7266—Wood Cutting-Off Machines

**Adams, W. T. Machine Co., Corinth, Miss.**
**ALLIS-CHALMERS CO. (Steam Feed** Cutting-Off Saws), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Saw Mill Machinery Co., Hackettstown, N. Y.
American Woodworking Mach'y Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & **Gray's Ferry rd, Phila., Pa.**
Barnes, W. F. & John Co. (Foot & Power), Rockford, Ill.
**Bentel & Margedant Co., Hamilton, O.**
Berlin Machine Works, Beloit, Wis.
**Carey, W. W. Co., Lowell, Mass.**
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Dodds, Alexander, Grand Rapids, Mich.
Farquahar, A. B. Co., York, Pa.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer Machine Works (Double & Automatic Self-Feed Cut-Off Saws), 1845 Carroll av, **Chicago, Ill.**
**Frank Machinery Co., Buffalo, N. Y.**
Garland, M. Co. (Combined with Conveyors), Bay City, **Mich.**
Hall & Brown Woodworking Machine Co. (Carriage Cut-Off Sawing Machines), St. Louis, Mo.
Hayes, E. B. Machine Co., Oshkosh, Wis.
**Hobbs Mfg. Co., Worcester, Mass.**
Holmes, E. & B. Machinery, Co., 59 Chicago, Buffalo, N. Y.
**Hurlbut-Rogers Machine Co., South Sudbury, Mass.**
Jenkins Machine Co. (Swing Saw), Sheboygan, **Wis.**
**Kline, Lewis T.,** Alpena, Mich.
Lane Mfg. Co., Montpelier, Vt.
Lovell, F. S. Machine Works, Fitchburg, Mass.
Luther, B. G. & Co. (Double Cut-off), Worcester, **Mass.**
Marston, J. M. & Co. (Hand), Boston, Mass.
Mecklenburg Iron Works, Charlotte, N. C.
**Power, L. & Co., 20 S 23d, Phila., Pa.**
**Ransom Mfg. Co., Oshkosh, Wis.**
**Sidney Tool Co.** (Cut-Off Saws for Wagon Makers), Sidney, O.
**Smith, H. B. Machine Co.** (Also Pendulum or Swing), **Smithville, N. J.**
**Union Iron Works, Bangor, Me.**
Wickes Bros., Saginaw, Mich.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

## 7267—Wood Embossing Machines

(See Embossing Machines)

## 7268— Wood Fibre Machinery

(See Fibre Machinery)

## 7269— Wood Flooring Machines

American Woodworking Mach'y Co., Rochester, Berlin Machine Works, Beloit, Mich.
Fay, J. A. & Egan Co., Cincinnati, O. N. Y.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
**Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.**
Moltz, Jacob J., Williamsport, Pa.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Woods, S. A. Machine Co., 445 Dorchester av, Boston, Mass.

## 7270— Wood Fluting Machines

**Shawver Co., Springfield, O.**

## Wood Gang Boring Machines

(See Wood Boring Machines, Multiple)

## 7271—Wood Gang Drilling Machines

Bentel & Margedant Co., Hamilton, O.
**Fay, J. A. & Egan Co., Cincinnati, O.**
**Williams, White & Co. 6 to 10 Holes), Moline, Ill.**

## 7272—Wood Gang Sawing Machines

Bentel & Margedant Co., Hamilton, O.
Bradley, H. C. (To Cut Up Stock), Bridgeport, Conn.
**Fischer Machine Works (Cutting-Up Saws), 1845 Carroll av, Chicago, Ill.**
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Wickes Bros., Saginaw, Mich.

## 7273—Wood Graining Machines

**Grand Rapids Panel Co., Grand Rapids, Mich.**

## 7274— Wood Mitreing Machines

McFarlan & Spilker Mfg. Co., Cincinnati, O.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.

## 7275—Wood Mortising Machines

American Woodworking Mach'y Co., Rochester, N. Y.
**Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.**
Barnes, W. F. & Jno. Co. (Hand & Foot Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
**Cordesman, Meyer & Co., Cincinnati, O.**
**Cordesman, Rechtin Co., Cincinnati, O.**
**Defiance Machine Works, Defiance, O.**
**Fay, J. A. & Egan Co., Cincinnati, O.**
**Frank Machinery Co., Buffalo, N. Y.**
**Greenlee Bros. & Co., Railway Exchange bldg. Chicago, Ill. Factory, Rockford, Ill.**
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Health, W. A., Machine Co. (Chair), Lester
**Hobbs Mfg. Co., Worcester, Mass. shire, N. Y.**
**Jenkins Machine Co.** (6 or 8 Bit), Sheboygan, Wis.
Oliver Machinery Co. ("Oliver"), Grand Rapids,
Power, L. & Co., 20 S 23d, Phila., Pa. Mich.
**Princess Mfg. Co. ("Princess" Automatic), 456 E 2d, Cincinnati, O.**
Seneca Falls Mfg. Co. ("Diamond," Foot Power), Seneca Falls, N. Y.
**Smith, H. B. Machine Co., Smithville, N. J.**
**STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W Cleveland, O.** (See adv. index, end of book)
Wysong & Miles Co. (Square Chisel), Greensboro, N. C.
Yerkes & Finan Woodworking Machine Co. (Cabinet, Hollow, Chisel, etc.), St. Louis, Mo.

## 7276—Wood Moulding Machines

**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)
American Woodworking Mach'y Co., Rochester, N. Y.
**Barnes, W. F. & Jno. Co. (Hand & Foot Power), Rockford, Ill.**
**Bentel & Margedant Co., Hamilton, O.**
**Berlin Machine Works, Beloit, Wis.**
Central Machine Works Co. (Double Spindle Shaping & Variety Moulding Machine), Minneapolis, Minn.
**Colloday, Jos. O., 626 Race, Phila., Pa.**
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
**Fay, J. A. & Egan Co., Cincinnati, O.**
Frank Machinery Co., Buffalo, N. Y.
Greenlee Bros. & Co., Railway Exchange, Chicago, Ill.
**Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.**
Hayes, E. B. Machine Co. (Outside Moulders), **Oshkosh, Wis.**
Marseilles Mfg. Co., East Moline, Ill.
**Newman Machine Co. (For Outside Moulding), Greensboro, N. C.**
**Power, L. & Co. (Est. of), 22 S 23d, Phila., Pa.**
Seneca Falls Mfg. Co. ("Rex." Hand & Foot Power), Seneca Falls, N. Y.
**Seymour & Whitlock, Newark, N. J.**
Shawver Co. (Twist Moulding, etc.), Springfield, O.
Smith, H. B. Machine Co., Smithville, N. J.
Thomson, W. S., 418 W 27th, New York
White, Jno. A. & Co., Dover, N. H.
Woods, S. A. Machine Co., Boston, Mass.
Yerkes & Finan Wood Working Machine Co., 3143 N 9th, St. Louis, Mo.

## 7277— Wood Paneling Machines

**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)
Berlin Machine Works, Beloit, Wis.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.

## 7278—Wood Paving Block Machines

Chattanooga Machinery Co., Chattanooga, Tenn.

## 7279—Wood Pipe Boring Machines

**Bentel & Margedant Co., Hamilton, O.**
Hall & Brown Wood Working Machine Co., St. Louis, Mo.

## 7280—Wood Polishing Machines

American Woodworking Mach'y Co., Rochester,
Bentel & Margedant Co., Hamilton, O. N. Y.
**Berlin Machine Works, Beloit, Wis.**
**Builders' Iron Foundry, Providence, R. I.**
**Fay, J. A. & Egan Co., Cincinnati, O.**
**Klotz Machine Co., Sandusky, O.**
**Nash, J. M., Milwaukee, Wis.**
Smith, H. B. Machine Co. (Sand), Smithville, N. J.

## Wood Printing Machines

(See Box Board Printing Machines)

## 7281—Wood Pulp Wet Machines

Dilts Machine Works, Fulton, N. Y.

## 7282—Wood Ring & Valve Handle Machines

**Pringle & Brodie Machinery Co., 514 S Carrol, Chicago, Ill.**

## 7283— Wood Sawing Machines

**Althouse-Wheeler Co.** (Sawing Machines **with Swing Saw Table), Waupun, Wis.**
American Saw Mill Machinery Co., Hackettstown, N. J.
Baker Mfg. Co., Evansville, Wis.
**Baldwin, Tuthill & Bolton, Grand Rapids,**
Bentel & Margedant, Hamilton, O. Mich.
Burlingame, A. Co., Worcester, Mass.
**Challenge Co. (All Steel, Tilting & Sliding Table), Batavia, Ill.**
**Chattanooga Machine Co.** (Splitting), **Chattanooga, Tenn.**
**Comstock, Geo. S.** (Circular), **Mechanicsburg,**
**Connor, J. W. & Son (Farmers), Orangeville,**
**Davis, Geo. E., Dubuque, Ia. Pa.**
**Ellis Keystone Agricultural Works** (Circular Saw), Pottstown, Pa.
**FAIRBANKS, MORSE & CO.** (Jack of All Trades, Belted to a Tilting Table), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Farquhar, A. B. Co. (Ltd.), York, Pa.**
Fay, J. A. & Egan Co., Cincinnati, O.
Foos Gas Engine Co. (Circular Saw for Cord Wood), Springfield, O.
**Gehl Bros. Mfg. Co., West Bend, Wis.**
**Globe Foundry & Machine Co.** (Circular & Pole Saw for Cord Wood), **Sheboygan, Wis.**
**Gowanda Agricultural Works Co.** (Wood Mill with Jack), **Gowanda, N. Y.**
**Greenville Implement Co., Greenville, Mich.**
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hemingway, Jno., Lynn, Mass.
Heebner & Sons ("Daisy"), Lansdale, Pa.
Hill, W. E. & Co., Kalamazoo, Mich.
**Howell, R. R. & Co., Minneapolis, Minn.**
**Huntsville Fdy. & Machine Works, Huntsville,**
Kline, Lewis T., Alpena, Mich. Ala.
Lyon Iron Works, Greene, N. Y.
**Messinger Mfg. Co.** (Swinging & Sliding Table), Tatamy, **Pa.**
**Perkins Wind Mill Co., Mishawaka, Ind.**
**Port Huron Engine & Thresher Co.** (Sawing Only), **Port Huron, Mich.**
**Rowell, I. B. Co., Monomonee Falls, Wis.**
Sandwich Mfg. Co. (Sawing), Sandwich, Ill.
Seneca Falls Mfg. Co. ("Union," Foot, Hand & Power), Seneca Falls, N. Y.
**Smith & Pomeroy Windmill Co. ("Eureka"),** Kalamazoo, **Mich.**
**Spangler Mfg. Co.** (Quickel's Splitting & Sawing), **York, Pa.**
**Thompson, J. & Sons Mfg. Co., Beloit, Wis.**
**Wheland Machine Works, Chattanooga, Tenn.**

## 7284—Wood Sawing & Splitting Machinery

(See also Kindling Wood Machinery)

**Baker Machine Co. ("Baker" Splitting), Trenton, N. J.**
Codd, E. J. Co. (Splitting Only), Baltimore, Md.

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**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Glascock Stove & Mfg. Co. (Sawing & Splitting), Greensboro, N. C.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hill, W. E. & Co. (For Pulp Mills), Kalamazoo Mich
New Winona Mfg. Co. (Portable Wood Saws of Various Kinds), Winona, Minn.
Smalley Mfg. Co. ("Battle Creek" Splitting & Sawing), Manitowoc, Wis.
Spangler Mfg. Co. (Quickel's Splitting & Sawing), York, Pa.

## 7285—Wood Scraping Machines

Whitney, Baxter D. & Son, Winchendon, Mass.

## 7286— Wood Screw Machinery

Cook, Asa S. Co., Hartford, Conn.
Manville, E. J., Machine Co., Waterbury, Conn.

## Wood Shaping Machines

(See Shaping Machines, Wood)

## 7287—Wood Shaping & Variety Moulding Machines

Berlin Machine Works, Beloit, Wis.
Central Machine Works Co. (Double Spindle), Minneapolis, Minn
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Sidney Tool Co., Sidney, O.

## 7288—Wood Surfacing Machines

American Saw Mill Machinery Co., Hackettstown, N. J.
American Woodworking Mach'y Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Connell & Dengler Machine Co., Rochester, N. Y.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Dennis Machine Co., Jackson, Mich.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer Machine Works, 1845 Carroll av, Chicago, Ill.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Oliver Machinery Co., Grand Rapids, Mich.
Power, L. & Co., 20 S. 23d, Phila., Pa.
Sidney Tool Co., Sidney, O.
**STRONG, CARLISLE & HAMMOND Co.,** 336-344 Frankfort av, N W, Cleveland, Ohio. (See adv. index, end of book)
Valley City Machine Works, Grand Rapids, Mich.
Whitney, Baxter D. & Son (Single & Double Surfaces), Winchendon, Mass.

## 7289— Wood Tenoning Machines

American Woodworking Mach'y Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila., Pa.
Barnes, W. F. & John Co. (Hand Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works (Chucking & Tenoning), Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Greenlee Bros. & Co. (Car Tenoner, etc.), Railway Exchange bldg, Chicago, Ill.; Factory: Rockford, Ill.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hayes, E. B. Machine Co. (Single & Double End), Oshkosh, Wis.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hobbs Mfg. Co., Worcester, Mass.
Kane & Roach, Syracuse, N. Y.
Power, L. & Co., 20 S. 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
**STRONG, CARLISLE & HAMMOND Co.,** 336-344 Frankfort av, N W, Cleveland, Ohio. (See adv. index, end of book)
Vulcan Iron Works ("Universal" Tenon & Boring Machines), Mason City, Ia.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

## 7290—Wood Trimming Machines

Adams, W. T. Machine Co., Corinth, Miss.
Berlin Machine Works, Beloit, Wis.
Chattanooga Machinery Co. (Ironsides), Chattanooga, Tenn.
Fox Machine Co., Grand Rapids, Mich.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Lane Mfg. Co., Montpelier, Vt.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.
Perkins & Co. ("Perkins" Bench Draw Stroke Trimmer), Grand Rapids, Mich.
Washburn Shops of the Polytechnic Institute, Worcester, Mass.

## 7291—Wood Twisting Machines

Shawver Co., Springfield, O.

## Wood Working Machinery

(See Specific Article Required)

## 7292—Wood Working Machinery (Hand & Foot Power)

Barnes Tool Co., New Haven, Conn.
Barnes, W. F. & Jno. Co. (Circular Sawing Machines), Rockford, Ill.
Berlin Machine Works, Beloit, Wis.
Crescent Machine Co., Leetonia, O.
Marston, J. M. & Co., Boston, Mass.
Parks Ball Bearing Machine Co., Cincinnati, O.
Seneca Falls Mfg. Co. (Foot Power), Seneca Falls, N. Y.
Sidney Tool Co. ("Universal" Wood Worker, etc.), Sidney, O.

## 7293—Wood Working Machines (Universal)

Bentel & Margedant Co., Hamilton, O.
Buffalo Forge Co. ("Crain," for Blacksmith & Wagon Makers' Plants), Buffalo, N. Y.
Crescent Machine Co., Leetonia, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Grimm Mfg. Co. ("Grimm," Portable, 9 Machines in 1), Buffalo, N. Y.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Littlefield, Henry W. ("Grimm," "Simplex") Buffalo, N. Y.
Loveland & Monahan, 527 W Van Buren, Chicago, Ill.
Parks Ball Bearing Machine Co. (Combination), Cincinnati, O.
Sidney Tool Co. ("Famous," 16 Machines in 1), Sidney, O.

## 7293a—Wooden Corking Machines

Redlich Mfg. Co., 637 W Oak, Chicago, Ill.

## Woolen Machinery

(See Textile Machinery. For page number consult Index of Contents)

## 7294—Woven Wire Fence Machines

Kitselman Bros., Muncie, Ind.
Peerless Fence Co., Holly, Mich.

## 7295—Woven Wire Mattress Machinery

(See also Wire Mattress Machinery)

Erlandsen, Julius, 172 Centre, New York

## 7295a—Wrapper Cutting Machines

Shirk, P. E., Blue Ball, Pa.

## 7296—Wrapping Machinese (Fruit & Merchandise)

Condon, Thos. F. & Co. (Soap, etc.), 50 Church, New York
Consolidated Wrapping Machine Co., Springfield, Mass.

## 7297—Wrapping Machines (Rubber Mill)

Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
Housatonic Machine & Tool Co., Bridgeport, Conn.

## 7298— Wrench Machinery

Gould & Eberhardt, Newark, N. J.

## 7298a—Zinc Rolling Mill Machinery

**GARRISON, A. FOUNDRY CO.,** 901 Bingham, Pittsburg, Pa. (See adv. index, end of book)

ROLLING MILL MACHINERY
For Non-Ferrous Metals
CHILLED ROLLS
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

(END OF MACHINERY)

## 7299—Machinery Dealers (New & Second Hand)

(See also Mill & Factory Supplies)

### ALABAMA.

BIRMINGHAM—Birmingham Machine & Fdry Co.
Hardie-Tynes Mfg. Co.
Lum, Geo. E. Machine & Supply Co. (Engines, Boilers, Saw Mill & Mining Machinery, etc.)
Moore & Handley Hardware Co. (Engines, Boilers, Pumps, etc.)
Shook & Fletcher (Machinery, Boilers, etc.)
Yates, J. A. & Co. (Mining Machinery)
BRIDGEPORT—De Loach Mill Mfg. Co.
MOBILE—Alabama Iron Works
Barney, Cavanagh Hdw. Co.
Mellett, Richard
MONTGOMERY—Cardwell, W. R.
Janney, A. A. & Co.
Lum Machinery Co. (Engines, Boilers, Pump, etc.)
SELMA—Union Iron Works Co.

### ARIZONA TERRITORY.

NOGALES—Roy & Titcomb (Inc.)
PHOENIX—Thayer, Ezra W. (Engines, Mining Machinery & Agricultural Implements, etc.)

### ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co. (Engines, Pumps, Saw Mill Mach., etc.)
DARDANELLE—Cox, Thos. Machinery Co.
LITTLE ROCK—Cox, Thos. & Sons Machinery Co.
Jones, D. E. Co.
Rosenbaum, C. E. Machinery Co.
Wehrfritz, E. C. Machinery & Supply Co.
MORRILTON—Delong Machinery Co.
PINE BLUFF—Dilley Foundry Co.
Fox-Harris Machine & Supply Co.
STUTTGART—Whaley, J. F.

### CALIFORNIA.

LOS ANGELES—Baker Iron Works, 950 Buena Vista
Baker & Hamilton (Engines, Boilers, etc.)
Busch, A. H. Co.
**FAIRBANKS, MORSE & CO.** (Engines, Boilers, Pumps, etc.), 136 Los Angeles. (See adv. index, end of book)
Fulton Engine Works (Engines, etc.)
Harper & Reynolds Co.
Harron, Rickard & McCone (Inc.) (Engine, Electrical, Woodworking, Mach., etc.)
Llewellyn Iron Works (Boilers, Engines, Pumps, etc.)
Machinery & Electrical Co., 353 N Main
Moore, Chas. C. & Co. (Pumps, Mining & Mill Machinery)
**Pacific Coast Mfg. Co.,** 126 S Los Angeles
Smith-Booth-Usher Co.
Union Iron Works of Los Angeles, Molino, c
United Iron Works Palmetto
OAKLAND—United Iron Works
RIVERSIDE—Riverside Foundry & Machine Works
SACRAMENTO—Baker & Hamilton (Engines, Boilers, etc.)
SAN DIEGO—Sterne Bros. Co.
SAN FRANCISCO—Baker & Hamilton (Engines, Boilers, etc.)
California Saw Works
Compressed Air Mach'y Co., Jessie & Ecker

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Doble, Abner Co., Fremont & Howard
Dunham, Carrigan & Hayden Co. (Hydraulic Machinery, etc.), 131 Kansas
Eby Machinery Co., 268 Market
Eccles & Smith Co. (Machine Shop Tools, Air Compressors, Pneumatic Tools, etc.)
**FAIRBANKS, MORSE & CO. (Engines,** Boilers, Pumps, etc.), 158 1st. (See adv. index, end of book)
Garratt, W. T. & Co. (Inc.) (Engines, Boilers, Pumps, etc.)
Globe Engineering Co.
Harron, Rickard & McCone (Inc.) (Engines, Electrical & Wood Working Machinery, etc.)
Hendy, Joshua Iron Wks. (Engines, Pumps, & Mining Machinery)
Henshaw, Bulkley & Co., 19 Fremont
Judson Mfg. Co., 819 Folsom
Krogh Mfg. Co., 159 Beale
Livermore, Norman B. & Co. (Engines, Boilers, Pumps, Steam Shovels, Dredges, etc.), Metropolis Bank bldg
Marwedel, C. W., 258 9th
Moore, Chas. C. & Co. (Pumps, Mining & Mill Machinery), 99 1st
Moore & Scott Iron Works (Mining & Hoisting Machinery)
Pacific Tool & Supply Co. (Metal Working Machinery & Supplies)
United Iron Works
Wagner, Jos. Mfg. Co. (Flour Mill, etc.), 165 Beale
Ward, Fred & Son, 200 1st
White, H. S. Machinery Co., 9th & Bryant
Woodin & Little (Steam Pumps, Gasoline Engines, etc.)
SAN JOSE—Wight, David

## COLORADO.

DENVER—Burnite Machinery Co. (Mining & Milling Machinery, etc.)
Colorado Iron Works Co. (Mining, etc.)
Denver Engineering Works Co.
Denver Metal Co. (Machinery Jobbers)
Dispass Eng. & Mining Machy. Co. (Specialty Mining Machy.)
**FAIRBANKS, MORSE & CO. (Engineer, Boilers, Pumps, etc.), 1600 17th.** (See adv. index, end of book)
Flint Lomax Electric & Mfg. Co.
Great Western Machinery Co.
Mine & Smelter Supply Co. (Engines, Boilers, Pumps, etc.), 17th & Blake
Morse Bros. Machinery & Supply Co. (Mining Machinery, Hoisting Engines, etc.)
S-H Supply Co. (Mining Machinery, Engines, Boilers, Compressors, Drills, etc.)
Scott Supply & Machinery Co. (Engines, Boilers, Pumps, etc.), 1725 Blake
Stearns-Roger Mfg. Co., 1718 California
Wilkes, Gilbert & Co., 502 McPhee bldg
LEADVILLE—McCarty & Moore

## CONNECTICUT.

HARTFORD—Pickering, W. H. & Co.

## DELAWARE.

**WILMINGTON—Delaware Electric & Supply Co. (Engines, Pumps, etc.)**
Speakman Supply & Pipe Co., 113 Market

## DISTRICT OF COLUMBIA.

WASHINGTON—Littlefield, Alvord & Co., 26th & D N W
National Electrical Supply Co. (Machinery, Pumps, Engines, Dynamos, etc.)

## FLORIDA.

JACKSONVILLE—Christopher, Jno. G. Co.
Florida Electric Co. (Engines, Boilers, Dynamos, etc.)
Hubbard, S. B. Co.
LAKE CITY—Johnson, L. W.

## GEORGIA.

ATHENS—Athens Foundry & Machine Works
ATLANTA—American Machinery Co.
Austin, W. E. Co. (Concrete, Stone & Ore Crushing Machinery, etc.)
Avery & Co. (Saw Mill, etc.), 70 S Forsyth
Malsby Co., 41 S Forsyth
AUGUSTA—Georgia Iron Works
Lombard Iron Works & Supply Co. (Engines, Boilers, Saw Mills, etc.)
BRUNSWICK—Bay Iron Works
COLUMBUS—Columbus Iron Works Co.
Golden's Foundry & Machine Co.
MACON—Findlay Iron Works Co. (Inc.)
Mallary Bros. Machinery Co. (Engines, Boilers, Cotton Gins, Saw Mill Mach., etc.)
Schofield's, J. S. Sons Co. (Engines, Pumps, Saw Mills, etc.)
ROME—Battey Machinery Co.
SAVANNAH—Georgia Supply Co.
Hartfelder-Garbutt Co. (Engines, Boilers, etc.)
Kehoe Iron Works (Machinery of All Kinds, Boilers, etc.)
Rourke, Jno. & Sons
TOCCOA—Simpson & Co.

## HAWAII.

HONOLULU—Von Hamm-Young Co. (Ltd.)

## ILLINOIS.

BLOOMINGTON—Keiser-Van Leer Co. (Engines, Pumps, etc.)
BRADLEY—Burrell Mfg. Co.
BRIDGEPORT—Illinois National Supply Co.
CAIRO—Reed, J. B. (Iron Working Tools, etc.)
CASEY—Illinois National Supply Co.
CHICAGO—Adkins, Young & Allen Co., 109 N Canal
**AMERICAN HOIST & DERRICK** Co., 17 N Canal. (See adv. index, end of book)
Burrell Mfg. Co., 2 S Clinton
Chicago Brick Mach'y Co., 77 Jackson blvd
Chicago Engineer Supply Co., 112 Lake
Chicago House Wrecking Co., 35th & Iron
Chicago Machine Tool Co., 127 N Canal
Chicago Pulley & Shafting Co. (Power Transmission), 32 S Clinton
Chicago Woodworking Machinery Co. (Woodworking), 162 N Clinton
Cook & Chick Co., 20 E Kinzie
Curtis & Co. Mfg. Co., 215 N Desplaines
Erwin & Co., 56 Dearborn
Essley, E. L. Machinery Co. (Machine Tools, etc.), 555 Washington blvd
**FAIRBANKS, MORSE & CO. (Engines,** Boilers, Pumps, etc.), 481 Wabash av. (See adv. index, end of book)
Gould Co. (Pumps, etc.), Ohio & Franklin
Gregory Electric Co. (Electric), 16th & Lincoln
Harris, Sam'l & Co. (Machine Shop Machinery, Tools, etc.), 114 N Clinton
Henion & Hubbell (Pumps, Steam, Power, Electric, Hand, etc.), 223 N Jefferson
Hill, Clarke & Co., 125 N Canal
Hill, J. B. Co., 111 S Jefferson
Hodgart & Co. (Air Compressors, Steam Engines, Pumps, etc.), 150 Michigan av
Kaestner & Hecht Co. (Inc.) (Engines, Boilers, Pumps, Power Transmission, Shafting, Pulleys, etc.), 440 S Jefferson
Latham Machinery Co., 306 S Canal
Loveland & Monahan Co. (Wood Working & Saw Mill Machinery & Supplies), 527 W Van Buren
McDowell, Stocker & Co. (New & Second Hand Machine Tools, etc.), 121 N Jefferson
Machinery Exchange, 159 N Canal
Machinists' Supply Co. (Machine Shop Machinery, Tools, etc.), 17 N Jefferson
Manning, Maxwell & Moore, 111 N Canal
Marshall & Huschart Machinery Co. (Machine Tools & Miscellaneous Machy.), 17 S Jefferson
Packard, O. L. Machinery Co., 101 N Canal
Pfannmueller Engineering Co. (Engineers & Power Equipment), 37th & Ashland av
**RYERSON, JOS. T. & SON (Inc.)** (New & Second-Hand Machinery, Machine Tools, etc.), 2558 W 16th. (See adv. index, end of book)
Scully Steel & Iron Co. (Heavy Mach'y), Ashland av & 24th
Shaw, Willis Machinery Co. (New & Second-Hand), 171 Lasalle
Skillin & Richards Mfg. Co. (Engines, Boilers, Pumps, Grain Elevator Machinery & Supplies), 46th av & Courtland
Station Equipment Co. (Electric, etc.), 1228 Marquette bldg
Stocker, H. A. Machinery Co. (Machine Tools, etc.), 570 W Randolph
Street, R. R. & Co. (Engines, Boilers, etc.), 184 Washington
White, A. D. Machinery Co. (Machine Tools & Machy.), 108 N Jefferson
Williams, E. O. (Second-Hand), 31 N
DECATUR—Union Iron Works
ELGIN—Hawthorne Hardware Co.
FLAT ROCK—Illinois National Supply Co.
HOOPESTON—Sprague Canning Machinery Co.
LAWRENCEVILLE—Illinois National Supply Co.
MENDOTA—Mendota Mfg. & Transfer Co.
PEORIA—Armstrong, Jas. C. Machine & Foundry Co. (Engines, Pumps, etc.),
QUINCY—Hollister-Whitney Co.

## INDIANA.

BLOOMINGTON—Seward & Co. (Engines, Pumps, etc.)
EVANSVILLE—Grote Mfg. Co.
Mooney, Jno. B.
FORT WAYNE—National Mill Supply Co. (Engines, Boilers, etc.)
INDIANAPOLIS—Chandler, Geo. M. (Machine Tools, Cranes, Air Compressors, Hoists, etc.)
**FAIRBANKS, MORSE & CO., 140 S** Meridian. (See adv. index, end of book)
Indiana Machine Supply Co., Saks bldg
Kenney Machinery Co. (Agricultural Machinery), 124 Capitol av S
Vonnegut Machinery Co.
LAFAYETTE—Wallace Mach. & Fdry Co.
PRINCETON—Maddocks & Herschel

## IOWA.

CEDAR RAPIDS—Carmody Foundry & Machine Co.
Fawcett, C. E.
COUNCIL BLUFFS—Sprague Foundry & Mfg. Co.
DES MOINES—Beckman Bros.
Des Moines Mfg. & Supply Co.
Globe Machinery & Supply Co. (Engines, Boilers, Pumps, etc.)
Iowa Machinery & Supply Co.
LE MARS—Trenery, C. L. & Co.
MARSHALLTOWN—Lennox Machine Co.
OTTUMWA—McDaniel, C. E.
TIPTON—Tipton Hardware Co.

## KANSAS.

ENTERPRISE—Ehrsam, J. B. & Sons Mfg. Co.
LEAVENWORTH—Fisher Machine Works Co.

## KENTUCKY.

LOUISVILLE—American Machine Co.
Brandeis Machinery & Supply Co.
**FAIRBANKS, MORSE & CO. (Engines,** Boilers, Pumps, etc.), (See adv. index, end of book)
Grainger & Co., 141 10th
Hilpp, Meyer H. (New & Second Hand)
Joseph, Herman, 316 E Main
Kockenrath, C. A., 311 E Main
McWilliams, Jos. & Co. (Engines, Pumps, Boilers, etc.), 719 W Market
Pyne, Harry B & Co., 1109 W Main
Pyne, W. T., Mill & Supply Co.
Urwick Machinery & Supply Co.
Vogt, H. Machine Co., 10th & Ormsby av
OWENSBORO — Gunther Wright Machine Co. (Engines, Boilers, Saw Mills, etc.)

## LOUISIANA.

**NEW ORLEANS—AMERICAN HOIST &** Derrick Co., Hennen bldg. (See adv. index, end of book)
Baldwin, A. & Co. (Ltd.), Camp & Common
Boland Machine & Mfg. Co. (Engines, Pumps, etc.)
Burt, C. S. Co. (Ltd.) (Engines, Boilers, Cotton Gins, Ginning Plants, etc.), 826 Union
Fairbanks Co., Camp & St. Joseph
Gibbens & Stream, 213 Canal
Haubtman & Loeb Co. (Ltd.) (Engines, Boilers, Pumps, etc., New & Second-Hand)
Lockett, A. M. & Co. (Engines, Boilers, Pumps, etc.), 533 Baronne
McArdle, Peter H., Erats & Clara
Murphy, Jno. H. (Engines, Boilers, Pumps & Sugar & Saw Mill Machinery, etc.)
Patterson, C. T. Co. (Ltd.), 404 Carondelet
Payne & Joubert (Engines, Boilers, Sugar Machinery, etc.), 423 Carondelet
Sammons, E. A. Co. Ltd.) (Engines, Boilers, Saw Mill Machinery, etc.)
Wilmot Machinery Co., 722 Gravier
Woodward, Wight & Co. (Ltd.), 406 Canal
SHREVEPORT—Henderson, W. K. Iron Works & Supply Co.
Means, J. L. Machinery Co. (Engines, Boilers, etc.)

## MAINE.

CALAIS—Elliott Machine Co.
PORTLAND—Adde & Co. (Engines, Boilers, Pumps, Iron & Wood Working Mach'y)
Blake, W. L. & Co. (Inc.)
Portland Co. (Engines, Boilers & General Machinery)

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## MARYLAND.

BALTIMORE—Adt, John B. (Engine, Boilers, Pumps, etc.), 332 N Holliday
Aumen Machinery & Supply Co. (Iron & Woodworking Machinery, Engines, Boilers, Pumps & Power Transmission Machinery), 324 N Holliday
Basshor, Thomas C. Co. (Engines, Boilers, Pumps, etc.)
Carey Machinery & Supply Co. (Engines, Pumps, etc., & Metal & Woodworking Machinery), 119 E Lombard
Chatard & Norris, Continental bldg
Coggins & Owens, 19 S Charles
Crook-Kries & Co. (Engines, Boilers, Pumps, etc.)
Cuyler & Mohler (Machine Tools, etc.)
Dugan, Cumberland & Co. (Iron & Woodworking), Howard & Barre
DuKehart, Morton McI. (Engines, Boilers, etc.), Continental bldg
Fadum, Fred'k, 408 W German
Mallory Machinery Co. (Engines, Boilers, Pumps. Machine Tools, etc.)
Meyer, Henry H. Co. (Engines, Boilers, Pumps & Contractors' Machinery, etc.)
Morton, Richard (Steam Electric Hydarulic & Pneumatic Machy.), Equitable bldg
Simpson, J. B. (Power Transmitting & Conveying Mach'y, etc.), Calvert bldg
Stebbins, Wallace & Sons
Zies, Chas. & Sons (Engines, Pumps, Brewers' & Butchers' Machy., etc.)
CUMBERLAND—McKaig. Merwin.
SALISBURY—Grier, Robt. D. (Engines, Boilers, Saw Mills, Power Transmitting Mchy, etc.)

## MASSACHUSETTS.

BOSTON—Bond, Harold L. Co. (Engines. Pumps, etc.), 140 Pearl
Byers & Smith, 103 Haverhill
Chandler & Farquhar Co., 36 Federal
Coleman, W. C. Co. (Specialty Rubber Mill Mach'y)
Cutter, Wood & Stevens Co. (Machine Tools, etc.), 68 Pearl
Cutter-Wood Supply Co. (Machine Tools, etc.)
Fairbanks Co. (Machine Tools, Machinery, Firth, Wm. (Textile). 79 Milk etc.)
Hill, Clarke & Co. (Machine Tools, etc.)
Holmes & Blanchard Co. (Engines, Boilers, etc.), 31 State
Holt, Shattuck & Co. (Engines, Boilers & Wood Working Machinery, etc.), 47 Washington, N
Houghton, J. H., 77 Oliver
Jarvis Engineering Co. (Engines, Boilers, etc.), 61 Oliver
McLaughlin, Geo. G. Mfg. Co., 24 Wash-
Mason, J. M., 81 Haverhill ington, N
Moore, Frank K. (Woodworking), 259 Dorchester av
Morton, A. M. & Co. (Engines, Boilers, etc.), 25 Washington
Perrin, Seamans & Co., 57 Oliver
Pratt, R. W. & Son, 111 Haverhill
PRENTISS TOOL & SUPPLY CO. (New & Second-Hand Machine Tools), 145 Oliver. (See adv. index, end of book)
Ridlon, Frank Co. (New & Second Hand Dynamos, Motors, Engines, Pumps, etc.)
Riley, C. E. Co. (Textile), 65 Franklin
Sampson, Geo. H. Co. (Rock Drills, Air Compressors, etc.), 13 Pearl
Sherburne & Co. (Hydraulic Machinery, etc.). 53 Oliver
Stoddard, Haserick, Richards & Co. (Textile), 152 Congress
Taylor Machine Co., 42 Oliver
Walworth Mfg. Co., 134 Federal
Wickes Bros., 37 Fansworth
FALL RIVER—Dun, Wm. J.
FITCHBURG—Wachusett Machinery Co. (Iron & Woodworking)
LOWELL—Bartlett, W. T. S. (Metal Wood-Working Power Transmissions, etc.)
Scannell Boiler Works
ORANGE—Chase Turbine Mfg. Co. (Engines, Boilers, etc.)
PITTSFIELD—Howard & Morrow
Robbins, Gamwell & Co. (Engines, Pumps. etc.)
SPRINGFIELD—Bacon & Donnovan Engine Co. (Engines, Agr'l Implements, etc.).
Ehrlich, A. B. & Co. (Second Hand Machinery, etc.)
Ford, H. (Engines, Pumps, Brick Machinery, etc.)
Hannan-Finton Co. (Engines, Boilers, Pumps. Machy., etc.)
Russell, Jno. W. & Sons Co. (New & Second Hand Engines, Shafting, Pulleys, etc.), 47 Taylor
Stacy, E. S. Machine Co. (Engines, Boilers, Mach'y, etc.)
WORCESTER—Buxton, W. A. Machinery Co.
Dawson Machine Co.
Knight, E. O., 86 Foster
McMahon, Bernard H. (Second Hand)

## MICHIGAN.

ALMA—Montingel, J. M.
ALPENA—Kline, Lewis T.
ANN ARBOR—Post, Edward C.
BAY CITY — MacKINNON BOILER & Machine Co. (See adv. index, end of book)
Meister, R. & Sons
DETROIT—Commercial Supply Co. (Electrical, New & Second-Hand), 47 Park pl., W
Concrete Machinery Co. (Cement Brick Machines for Sand Cement Brick), Majestic bldg
Detroit Shipbuilding Co. (Brass Dept.)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 86 Jefferson. (See adv. index, end of book)
Harvey, A. Sons Mfg. Co.
Jefferson Iron Works Co., 7 Jefferson av
Kerr Machinery & Supply Co.
Mitshkun, M. Co. (Engines, Boilers, Pumps etc.), Isabella av & E
Motch & Merryweather Machinery Co. (Machine Tools, etc.), Majestic bldg
Strelinger, Chas. A. Co. (Machine Tools & General Machinery), 98 Bates
Wormer, C. C. Machinery Co. (Engines, Boilers, Pumps, Iron & Wood Working. etc.), 97 Woodbridge, W.
Wray-Austin Machinery Co. (Engines, Machinery, Boilers, etc.), 173 Woodbridge, W.
GRAND RAPIDS—Adams & Hart
JACKSON—Hutchison, Jno. Mfg. Co.
LANSING—Michigan Supply Co.
OWOSSO—Steggall, A.
SAGINAW—Bartlett, A. F. & Co.
Heginbottom & Sons
Jackson-Church-Wilcox Co.
Wickes Bros. (Engines, Boilers, etc.)

## MINNESOTA.

DULUTH—Duluth Machinery Co.
MINNEAPOLIS—Enterprise Machine Co., 1118 S 3d
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 220 Nicollet av. (See adv. index, end of book)
Harris Machinery Co. (Engines, Boilers, Pumps, Wood & Iron Working Machy.)
Hillman & Pettengill (Engines, Boilers, Pumps, Saw Mill Machinery, etc.)
Howell, R. R. & Co., Malcolm av & 5th
PETELER CAR CO., 30th av, S E, & N. P. R. R. (See adv. index, end of book)
Link Belt Supply Co. (Flour & Saw Mill Machy.)
Northern Machinery Co., 213 S 3d
ST. PAUL—CONTRACTORS' SUPPLY & Equipment Co. (Engines, Pumps, Rock Crushers, etc.), German American Bank bldg. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 234 E 3d. (See adv. index, end of book)
Robertson, J. G., 433 Gilfillan
Robinson & Cary & Sands Co., 4th & Wacouta
South Park Foundry & Machine Co., 212 Gilfillan blk
Waterous Engine Co., 62 S Robert

## MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
MERIDIAN—Hyde, Chas. J.

## MISSOURI.

CLINTON—Industrial Iron Works (Engines, Pumps, Boilers, etc.)
JOPLIN—English Iron Works Co. (Hydraulic Machinery, etc.)
Manley & Landreth Machinery Co.
United Iron Work Co. (Engines, Boilers, Pumps & Mining Machinery)
KANSAS CITY—Black, F. B. Co.
Burton, C. A. Machinery Co.
Creamery Package Mfg. Co., 1215 W 10th
Equipment Co. (Machinery, Machine Tools, Iron & Steel Specialties & General Machine Shop & Railroad Supplies)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 1217 Union av. (See adv. index, end of book)
Great Western Mfg. Co., 1221 Union av
Lewis Supply Co., 1300 W 11th
Liggett, J. W. & Son, 601 W 5th
U. S. Water & Steam Supply Co., 1311 W 12th
MOBERLY—Faessler, J. Mfg. Co.
ROCKVILLE—Meyer & Walker
ST. JOSEPH—Richardson, Geo. O. Mach'y Co.
ST. LOUIS—Barry-Wehmiller Machinery Co.
Bowman, Albert B. (Metal Working Machinery of All Kinds, Cranes, etc.), 720
Brown Machinery Co., 934 N 1st N 2d
Colcord, W. R. Machinery Co. (Machine Tools & Machinery), 823 N 2d
Ellison, Wm. & Sons Mfg. Co., 1018 N 6th
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps), 8th c Clark av. (See adv. index, end of book)
Fisher & Davis Mfg. Co. (Engines, Boilers, Pumps, etc.), 1024 N Main
Gruendler Machine Co., 928 N Main
Johnson-Robinson Machinery Co. (Engines, Boilers, Pumps, etc.), 715 N 2d
Johnson, Wm. C. Sons Mach. Co., 210 Wash'n av
Kingsland Mfg. Co., 1521 N 11th
Manning, Maxwell & Moore (All Kinds), 906 Olive
Reuter-Jones Mfg. Co. (Power Transmission, Conveying & Elevating Machinery, etc.)
Rumsey, L. M. Mfg. Co. (Engines, Pumps, Machine Tools, etc.)
Rumsey & Sikemeier Co., 1900 Pine
St. Louis Belting & Supply Co., 509 S 4th
St. Louis Machinists' Supply Co. (Machine Tools), 1118 Pine
Smith, Geo. F. (Contractors' Machinery & Equipment of All Kinds)
Teuscher & Son Mach'y Sup. Co., 527 N 2d
Thompson, C. A. & Co. (Iron Workings, Tools, etc.), 516 N 3d
Willey, G. A., 117 Market
Wright, J. W. & Co., 800 N 2d
Yerkes & Finan Woodworking Machine Co. (Woodworking Machinery)
Zelnicker, Walter A. Supply Co. (Saw Mills, Engines, Boilers, Cranes, etc.), 225 Locust
SPRINGFIELD—United Iron Works Co. (Engines, Boilers, Heaters, Pumps, etc.)

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Anaconda Copper Mining Co.
Montana Hardware Co.
GREAT FALLS—Lowery Engineering Co.
HELENA—Holter, A. M. Hardware Co.

## NEBRASKA.

LINCOLN—Cooper & Cole Bros.
Smith, R. L.
OMAHA—Ely, Allen P. & Co.
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 1102 Farnum. (See adv. index, end of book)
Lehmer, Jos. R. (Engines, Boilers, Pumps. etc.), 1218 Farnum
U. S. Supply Co., 1108 Harney
Western Electrical Co., 1212 Farnam

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

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## NEW HAMPSHIRE.

CLAREMONT—Burns, Jno. W.
KEENE—Hubbard, H. W. (Engines, Boilers, etc.)
LANCASTER—Thompson Mfg. Co.
MANCHESTER—Drew Machinery Co.
Hutchinson, C. H.

## NEW JERSEY.

HARRISON—**WALSH'S SONS & CO.** (See adv. index, end of book)
JERSEY CITY—**GRISCOM-SPENCER CO.** (Boilers, etc.), Grand & Sussex. (See adv. index, end of book)
Rossiter, MacGovern & Co. (Dynamos & Motors, Engines, Boilers, Pumps, etc.)
NEWARK—McCune, P. & Sons, 334 Ferry
Millington & Bradshaw (New & Second Hand Engines & Machinery), 69 N. J. R. R. av
Newark Second Hand Machinery Co., 93 Chestnut
Skinner & Leary (Engines, Gearing, etc.)
Tidey, M. B. (Woodworking Machinery, etc.), 249 Plane
NEW BRUNSWICK—Brunswick Refrigerating Co. (Electric Motors, Gasoline), Engines, Ammonia Compressors, Grate Bars, etc.)
PATERSON—Van Winkle, J. A. Co. (Engines, Boilers, etc.)
TRENTON—McFarland Foundry & Machine Co.

## NEW YORK.

ALBANY—Nicholson, Aaron, 11 Church
BINGHAMTON—Gaylord & Eitapence Co. (Engines, Boilers, etc.)
Shapley & Wells
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Buffalo Machinery Co. (Engines, Boilers, Pumps, etc.), 26 Burwell pl
Buffalo Tool & Machine Co. (General Dealers), 176 Terrence
Fairbanks Co., 145 Seneca
**General Mercantile Co.** (Engines, Boilers, Mach'y, etc., New Only), 255 Washington
Lenahan, Frank & Son, 45 Fulton
**PRENTISS TOOL & SUPPLY CO.** (New & Second Hand Machine Tools), 607 D. S. Morgan bldg. (See adv. index, end of book)
Root, Neal & Co. (New & Second Hand, Pumps, Compressors, Machinery, Conveying, Elevating & Power Transmitting Appliances), 178 Main
Stimson, Henry B., 137 Wash'n
Whitman Mfg. Co., 178 Ohio
KINGSTON—Lawton, Wm.
MIDDLETOWN—Coleman, Galen (Engines, Boilers, Mill & General Machinery, etc.)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Brown, Jas. H. (And Second Hand Machinery), 139 Third
McCabe Machine Co. (New & Second-Hand Machine Tools, etc.), 35 Rapelyea
Saladin, Louis, 1143 DeKalb av
Smith, T. & Son (Second Hand), 410 3d av
Thomson-Bonney Co. (Inc.) (Electric), 45 York

### Boroughs of Manhattan & Bronx.

NEW YORK—Affleck, Geo. E. (Iron & Brass Working Machy.), 136 Liberty
Alexander, Leo & Co. (Purchasing Agents & Exporters), 17 State
American Machinery & Export Co. (Purchasing Agents & Exporters), 50 Church
Andrews, Phalon & Co. (Engines, Boilers, & Machinery), 239 West
Atwood-Rearick Co. (Steam Turbines, Pumps, etc.), 30 Church
Bacon, Earle C. (Rock Crushers, Hoisting & Mining Mchinaery), 26 Cortlandt
**BEGGS, JAS. & CO.** (Engines, Boilers, Pumps, Tools & Supplies), Liberty & Church
Bender, Geo. (Electric), 82 Center
Borne, Chas. A. (Electric), 62 Grand
Brown, Jas. H. (Engines, Boilers, Pumps & Second Hand Machinery), 50 Beekman
Chase, H. M. & H. F., 95 Liberty
**CONTRACTORS' SUPPLY & EQUIPMENT** Co. (Engines, Pumps, Rock Crushers, etc.), 170 B'way. (See adv. index, end of book)
Donegan & Swift (Engines, Boilers, Pumps, Blowers, etc.), 6 Murray
Dustin, Chas. E. Co. (Electrical & Steam Machinery), 11 B'way
Duzets & Son (Steam & Electric), 50 Church
Eaton, S. Edw. & Co. (Electric), 660 Hud-
Eddy, Geo. B., 398 Madison
Fairbanks Co., Lafayette & Broome
**FAIRBANKS, MORSE & CO.** (Engines, Boilers, Pumps, etc.), 30 Church. (See adv. index, end of book)
**FREVERT MACHINERY CO.** (New & Second Hand), 18 Dey. (See adv. index, end of book)
Garrett, W. D. & Co. (Machine Tools & Woodworking Machinery, etc.), 136 Liberty
Garvin Machine Co. (Metal Working, eec.), 130 Varick
**GODFREY-KEELER CO.** (Engines, Boilers, Pumps, Blowers, etc.), 70 Warren. (See adv. index, end of book)
Granger, A. D. Co. (Engines, etc.), 90 West
**GRISCOM-SPENCER CO.** (Boilers, etc.), 90 West. (See adv. index, end of book)
Hampson, Edw. P. Co. (Engines, etc.), 149
Haring, Wm. F., 126 Liberty B'way
Harper Machinery Co. (Engines, Boilers, Pumps, etc.), 50 Church
Hill, Clarke & Co., 136 Cedar
Holcomb, D. S. (Electric), 60 Centre
Humbert, J. S. (Pumping, etc.), 114 Liberty
International Electric & Engineering Co. (Machinery & Tools), 148 Chambers
International Engineering Corporation, 1779
Iredell, F. W., 11 B'way B'way
Lenher Engineering Co. (Stationary & Hoisting Engines, Boilers, etc.), 149 B'way
Leonard & McCoy (Engines, Boilers, Pumps, etc.), 161 Wash'n
Linder, H. J. (Electric, etc.), 39 Cortlandt
Love, William, 175 Grand
Ludeman, Edwin & Co., 165 B'way
McCabe, Jas. J. (Machine Tools), 30 Church
McSwegan, F. & Sons, Dover & Franklin sq
MacGovern, Archer & Co. (Steam & Electric Machinery, etc.), 114 Liberty
Manhattan Mach'y Exchange, 415 W B'way
Manning, Maxwell & Moore (All Kinds),
Miller, J. D., 39 Cortlandt 85 Liberty
Miller, Thos. C. (Motors, Dynamos, Fans), 10 Bible House
Mine & Smelter Supply Co., 42 B'way
Monarch Machinery Co. (Engines, Boilers, Saw Mills, etc.), 30 Church
Montgomery & Co. (Machinery & Tools), 105 Fulton
Moore, Chas. C. & Co. (Pumps, Mining & Mill Machinery), Fulton bldg
Motley, Green & Co., 68 Broad
New York Machinery Exchange (Engines, Boilers, Pumps, Machine Tools, etc.), 50 Church
Niles-Bement-Pond Co. (Machinery, Tools, etc.), 111 B'way
Olney & Warrin (Machinery, Tools & Supplies), 66 Centre
Patterson, Gottfried & Hunter (Ltd.) (Machinery & Tools, etc.), 211 Center
Perkins & Frecker (New & Second Hand Metal Working Machinery), 136 Liberty
Perkins, W. L., Jr. & Co. (Machine Tools, etc.), 136 Liberty
Pinner, R. A. (Engines & Boilers, Metal & Wood Working Machy., etc.), 122 Water
**PRENTISS TOOL & SUPPLY CO.** (New & Second Hand Machine Tools), 115 Liberty. (See adv. index, end of book)
Reilly's, James Sons Co. (Electric), 122
Reiss, Edw. S. & Co., 32 B'way Center
Roberts, Geo. I. & Bros., 471 4th av
Rossiter, MacGovern & Co. (Engines, Boilers, Pumps, etc.), 90 West
Rumsey Pump & Machine Co. (Pumps, etc.), 75 Warren
Schuchardt & Schutte (Mfrs., Exporters & Importers), 90 West
Schutte, Alfred H. (Exporters & Importers), West & Cedar
Stephens & Conrow Co., 136 Liberty
Sullivan, Jno. W. (Engines), 827 E 9th
Thompson, Jos. H., Jr. (Second Hand, Electric. etc.), 30 Church
Vandyke, Churchill Co., 91 Liberty
Van Loan, I. S. Co., Park av & 131st
Vermilye & Power (Contractors, Plantation, Mine, etc.), 50 Church
Walls, Bray & Co., 83 Walker
Wickes Bros. (New & Second Hand), 90 West
Williams & Wells Co. (Engines, Pumps & Machinery), 250 Fulton
Wilson & Roake, 261 Front

### (End of New York City)

PEEKSKILL—Naylor Bros.
ROCHESTER—Belting & Machinery Co.
Michel, Geo. J.
Wilson, Wm. H. (Engines, Boilers, etc.)
SYRACUSE—**PRENTISS TOOL & SUPPLY Co.** (New & Second Hand Machine Tools), 520 University Bk. (See adv. index, end of book)
Syracuse Supply Co. (Boilers & Engines a Specialty)
Wood, C. H. Co.
TROY—Prankard, C. J. & Sons (Engines, Pumps, Power Transmission, etc.)
Tolhurst Machine Works (Engines, Boilers, etc.)

## NORTH CAROLINA.

BURLINGTON—Cates Machine & Bridge Co. (Saw Mill Machinery, Engines, etc.)
CHARLOTTE—Alexander & Garsed
American Machine & Mfg. Co. (Textile Machinery, etc.)
Charlotte Supply Co. (Engines, Boilers, Cotton Mill Machinery, etc.)
Cramer, Stuart W.
Liddell Co.
Mecklenburg Iron Works
Moffatt Machinery Mfg. Co.
Robbins, O. A.
Southern Hardware Co.
Washburn, A. H.
DUNN—McKay, Jno. A. Mfg. Co.
GOLDSBORO—Dewey Bros.
GREENSBORO—Pritchett Machinery Co.
NEWBERN—Hyman Supply Co.
RALEIGH—Raleigh Iron Works Co. (Engines, Boilers & Power Plant Installation & Specialty)
SALISBURY—Thompson, P. H.
WILMINGTON—Wilmington Iron Works

## OHIO.

AKRON — American Scrap Iron Co. (Second-Hand Engines, Boilers, Pumps, etc.)
CANTON—Canton Engineering & Electric Co. (Engines, Boilers, Metal Working Machinery, etc.)
CINCINNATI—Barnes, Chas. Co., 55 Main
Cincinnati Iron Store Co.
Economy Machinery Co. (J. H. Flynn, Prop.) (New & Second Hand Engines, Machine Tools, Woodworking & Saw Mill Machinery, etc.)

NEW AND OLD MACHINERY, SCRAP IRON & STEEL, BRASS, COPPER, TIN AND LEAD
BELTING, PACKING AND HOSE
WALSH'S SONS & CO., Harrison, N. J.

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**FAIRBANKS, MORSE & CO.** (Engines, Boilers, Pumps, etc.), 307 Walnut. (See adv. Index, end of book)
Johnston, Wm. T. Co. (Engines, Pumps, Blowers, etc.)
Kinsey, E. A. Co. (Metal Working Machinery, etc.)., 331 W 4th
Motch & Merryweather Machinery Co. (Machine Tools, etc.)
Norton Machinery Co., 826 W 6th
Queen City Supply Co., (Machine Tools & Machinery), Pearl & Elm
Randle Machinery Co. (All Kinds of New & Second Hand Re-Built Machinery)
Western Machinery Co., 828 W 6th
CLEVELAND—**BARTLETT, C. O. &** Snow Co. (See adv. index, end of book)
Cleveland Belting & Machinery Co. (Second-Hand Only)
**FAIRBANKS, MORSE & CO.** (Engines, Boilers, Pumps, etc.), 99 Water (See adv. index, end of book)
Kaltenbach & Griess, Chamber of Com. bldg
Manning, Maxwell & Moore (All Kinds)
Motch & Merryweather Machinery Co. (Machine, Tools, etc.)
National Machinery & Wrecking Co. (Second-Hand Engines, Boiler & Electrical Machinery, etc.)
Osborne, Don M. (Machine Tools & Machinery)
**PATTISON, W. M. SUPPLY CO.** (Engines, Boilers, etc.), 197-211 St. Clair av. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND** Co. (Machine Tools, Engines, etc.), 336-344 Frankfort av, N W. (See adv. index, end of book)
White Tool & Supply Co., 1313 6th
Worthington, Geo. Co., 814 St. Clair av, N W
COLUMBUS—Columbus Equipment Co.
Eaton Machine Works (Engines, Boilers & Machinery)
Hamilton Mfg. Co. (Mach'y & Mfrs. Ag'ts)
Kilbourne, A. W. (Mach'y & Mfrs. Ag'ts)
Osborne & Sexton Machinery Co. (Machine Tools & Machy.)
Sackett Mine Supply Co. (Mining Machinery, etc.)
DAYTON—Patterson Tool & Supply Co. (Machine Tools & Machinery of All Kinds)
GREENVILLE—Ross Supply Co. (Gasoline Engines, Pumps, Wind Engines, etc.)
LIMA—Golley & Finley Iron Works
MARIETTA— Pattin Bros. Co.
SPRINGFIELD—Casey, D. L. Machine Co.
TOLEDO—Arbuckle-Ryan Co. (Inc.) (Engines, Boilers, Pumps, etc.)
National Supply Co.
Shaw-Kendall Engineering Co. (Engines, Boilers, etc., New), Superior & Swan Creek

## OKLAHOMA.

BARTLESVILLE—Frick-Reid Supply Co. (New & Scond Hand)
NOWATA—National Supply Co. (of Kansas)
OKLAHOMA—National Supply Co. (of Kansas)
Sherman, N. S. Machine & Iron Works
TULSA—National Supply Co. (of Kansas)

## OREGON.

CANBY—Kocher, Andrew
PORTLAND—Arthur, J. M. & Co., ft. E Taylor
Bell, Wildman & Co.
Caldwell Machinery Co.
Dayton Hdw. Co., 1st & Taylor
Eccles & Smith Co. (Machine Shop Tools, Air Compressors, Pneumatic Tools, etc.)
**FAIRBANKS, MORSE & CO.** (Engines, Boilers, Pumps, etc.), 1st & Stark. (See adv. index, end of book)
Gauld Co. (Engines, Pumps, etc.)
Honeyman Hardware Co.
Mitchell, Lewis & Staver Co., 1st & Taylor
Moore, Chas. C. & Co. (Pumps, Mining & Mill Machinery)
Pacific Engineering Co. (Mach'y for All Purposes)
Portland Iron Works, 495 Northrup
Portland Machinery Co., 62 1st
Simonds Mfg. Co.
Tatum & Bowen, 35 1st
Western Supply Co. (Flour & Saw Mill Machinery)
Zimmerman-Wells-Brown Co. (Engines, Boilers, Pumps, Mach'y, etc)

## PENNSYLVANIA.

ALLENTOWN—Grammes, L. F. & Sons (Engines & Power Transmitting Appliances.
McDermott Engineering Co. etc.)
Taylor, Wm H. & Co. (Engines, Boilers
Yeakel, S. H. Pumps, etc.)
BRADFORD—Bovaird & Seyfang Mfg. Co.
CHESTER—Birtwell, H. B.
DOYLESTOWN—Rufe Bros.
ERIE—Erie Machine Shops
Erie Mfg. & Supply Co. (Engines, Boilers,
HARRISBURG—Gardner, Chas. H. etc.)
McKillips, A. (Mach'y, Pulleys, Hangers, Mather, Edmund etc.)
HAZLETON—Hazleton Mach'y & Supply Co.
HOLLIDAYSBURG—McLanahan Stone Machine Co.
LANCASTER—Hahn, J. F. (Engines, Boilers, Pumps & Machinery)
LATROBE—Saxman, P. H.
MAUCH CHUNK—Stroh, W. H. (Est. of)
OIL CITY—Logan, Robert (Engines, Boilers & Machinery)
PHILADELPHIA—Baily, R. M. & Co. (Locomotive Cranes, Steam Shovels, Hoisting Engines, Boiler Making, Ship Building, Structural Work, Machinery, etc.), Arcade bldg
Bowman, H. L. & Co., 31 S 4th
Burchfield, T. T. Co. (Engines, Boilers, Pumps, etc.), 54 N 6th
Campbell, T. J., 974 Beach
Collom, J. A. & Co. (Engines, Boilers, Pumps, Wood Working Machy., etc.)
Conard, Thos. P. & Co. (New & Second Hand), Harrison bldg
Dallett & Co. (Locomotives, Steam Shovels, etc.), Harrison bldg.
Eckbold, Wm. Sons, 707 E. Girard av
Fairbank Co., 701 Arch
Francis Bros. & Jellett (Inc.), 315 N 15th
Fraser, E. L. (Machinery & Tools), 48 N 6th
Gifford, C. H. & Co., 135 N 3d
Haddock, Chas., 343 N. 3d
Henning, Jno. & Son, 1016 E Susquehanna av
Hill, Clarke & Co. (Iron & Woodworking), 512 Arch
Hitner's, Henry A. Sons Co., Huntington Aramingo av
Jefferson, Edw. & Bro. (Machine & Mill Furnishers), 127 S 2d
Kaiser, A. V. & Co. (Second Hand Engines, Pumps, Locomotive Boilers, Air Compressors, etc.), Drexel bldg
Lamb, J. K. (Textile), 246 Chestnut
Latimer, R. L. & Co. (Engines, Boilers, Pumps, etc.), 24 N Front
Lovegrove & Co. (Engines, Boilers, Machinery & Machine Tools), 143 N 3d
Manning, Maxwell & Moore (All Kinds),
Nuttall, Jno., 1748 N 5th 721 Arch
Philadelphia Machinery & Supply Co.
Purves Machinery & Iron Co., South c Water
Rich, J. & G., 120 N 6th
Schmitt, Jos. L., 1501 N 2d
Seyfert's, L. F. Sons (New & Second Hand Air Compressors, Engines, Boilers, Electrical, Iron & Woodworking), 437 N 3d
Shipley, W. E. Machinery Co. (Machine Tools), Bourse bldg
Swoboda, H. Co., 419 N 3d
Toomey, Frank (Engines, Pumps & Machinery), 127 N 3d
Watt's Jno. M. Sons, 54 N 2d
Winterer, Herman L. (Engines, Boilers, Compressors, etc.), 908 Beach
Yearsley, Thos. (Electric, etc.), 211 N 3d
PITTSBURG—Baird Machinery Co., 123 Water
Brown & Zortman Machinery Co. (Machine Tools, etc.)
Carlin Machinery & Supply Co.
**CARLIN'S, THOS. SONS CO., 1610** River av. (See adv. index, end of book)
**CONTRACTORS' SUPPLY & EQUIP**ment Co. (Engines, Pumps, Rock Crushers, etc.), Victoria bldg. (See adv. index, end of book)
Dravo, Doyle Co., Lewis blk
Frick & Lindsay Co. (Engines, Boilers, Pumps, etc.), 109 Wood
Green, L. A. & Co., Park bldg
Manning, Maxwell & Moore (All Kinds)
**OIL WELL SUPPLY CO., 215** Water. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY** Co. (Pumps, etc.), 30th & Liberty av. (See adv. index, end of book)
Rees, Jas. & Sons Co., 18 4th
Renton, Wm., 101 Water
Russell Machine Co., 28th & A. V. R. R.
Schlelein, F. P. Machinery Co. (Machine Tools. etc.), N. S.
Smith, Chas. G. Co., Park bldg.
Somers, Fitler & Todd Co. (Engines, Boilers, Pumps & Mach'y), 327 Water
Tranter Mfg. Co. (Engines, New & Second Hand, Pumps, etc.), 105 Water
Williams & Co., 220 Penn av
Young, John S.
POTTSVILLE—Sparks & Parker
READING—Seibert, Jno. H. (Engines, Pumps, Xander Machine & Supply Co. (Ltd.) etc.)
SCRANTON—Derry, A. L. & Co. (Engines, Boilers, etc.)
**PRENTISS TOOL & SUPPLY CO.** (Machine Tools), 720 Prescott av. (See adv. index, end of book)
Scott, Chas. B.
Scranton Supply & Machinery Co. (Engines, Pumps & Machinery)
SMITHS FERRY—Childs, Jno. (Oil & Gas Well, etc.)
TUNKHANNOCK—Billings, Paul & Sons
WILKES-BARRE—Eastern Penna. Supply Co. (Engines, Pumps & Machinery)
Huntington Machinery & Supply Co. (Electric, etc.)
Penna. Supply Co. (Engines, Pumps, & Machinery)
WILLIAMSPORT—Darling Pump & Mfg. Co.
Link, Jas. H. Machinery Co. (Second Hand Saw Mill)
Moltz, Jacob J. (Engines, Boilers, etc.)

## RHODE ISLAND.

PROVIDENCE—Thomas & Lowe Machinery Co. (Engines, Pumps, Boilers, etc.)
Thornton, J. T. Machinery Co.

## SOUTH CAROLINA.

ANDERSON—Anderson Machine & Foundry Co.
CHARLESTON—Bailey-Lebby Co.
Cameron & Barkley Co. (Engines, Pumps & Machinery)
Charleston Iron Works (Engines, Pumps & Machinery)
Riverside Iron Works
Valk & Murdoch Iron Works (Engines, Boilers, Pumps, etc.)
COLUMBIA—Gibbes Machinery Co. (Engines, Boilers, Saw Mills, etc.)
SPARTANBURG—Morgan Wood & Iron Works
Russell-Compton Co.
Spartanburg Machinery Co. (Engines, Boilers, Pumps, etc.)

## TENNESSEE.

CHATTANOOGA—Chattanooga Machinery Co.
James Supply Co. Montgomery av
Walsh & Weidner Boiler Co., Montgomery av & Sycamore
KNOXVILLE—McClung, C. M. & Co. (Boilers, Engines, Pumps, etc.)
Southern Brass & Iron Co.
MEMPHIS—Chickasaw Iron Works (Engines, Pumps & Machinery)
Riechman-Crosby Co. (Pumps, Logging Tools & Lumber Mfrs. Supplies, etc.)
NASHVILLE—Dale, Jno. P. (Engines, Pumps, Nashville Machine Co. etc.)
Stewart-Bruckner Co.

## TEXAS.

BEAUMONT—National Supply Co. (of Kansas)
Wilson, E. L. Hardware Co.
BRENHAM—Roff & Miller
BRYAN—Chatham Machinery Co.
CUERO—Runge, H. & Co.
DALLAS—American Well Works
Briggs-Weaver Machinery Co.
Graber, H. W. Machinery Co.
Keating Imp. & Machine Co.
Mosher Mfg. Co.
Wolfe, Ben. F. & Co.
EL PASO—Mine & Smelter Supply Co.
FORT WORTH—Axtell Co. (Wind Mills, Tanks, Southern Trading Co. etc.)
Texas Mfg. Co.
Van Zandt-Moore Iron Works (Engines, Boilers, Pumps, Dynamos, Motors, etc.)
HOUSTON—Barden Electric & Machinery Co.
Burks, L. H. & Son, Inc. (Rice Machy., etc.)
Girten-Russ Supply Co. (Engines, Boilers, etc.)
Grant Locomotive & Car Wks. (Engine & Saw Mill Machy., etc.)
Hawkins, Geo. W. (Engines. Pumps, etc.)
Hayes, D. J. Co. (Engines, Boilers, General Mill Transmission Machy., etc.)
Heitmann, F. W. Co. (Machinery & Supplies)
Houston Car Wheel & Machine Co. (Dredge, Oil Mill, Saw Mill & Compress Machy., etc.)
Paine, H. A. (Pumping & Saw Mill Machy., etc.)
Pennington, Harry Co. (Power Plant Machy., etc.
Simon, Louis F. & Co. (Machy., Engines, Pumps, etc.)

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Smith-Howard Co. (Engines, Steam Pumps, Rice & Cotton Gin Machy., etc.)
Southern Gas & Gasoline Engine Co. (Gas & Gasoline Engines, etc.)
Texas Machinery & Supply Co. (Steam & Gas Engines, Pumps, Motors, Generators, etc.)
Union Iron Wks. (Pumps, Oil Well Supplies, etc.)
HUMBLE—National Supply Co. (of Kansas)
LUFKIN—Lufkin Foundry & Machine Co.
PALESTINE—Dilley, Geo. M. & Son
PARIS—Collins & Dulaney
SAN ANTONIO—Alamo Iron Works
Axtell-Altgelt Co. (Engines, Boilers, Pumps, etc.)
San Antonio Machine & Supply Co.
TYLER—Connally, Walter & Co.

## UTAH.

SALT LAKE CITY—**FAIRBANKS, MORSE** & Co. (Engines, Boilers, Pumps, etc.), 218 S W Temple. (See adv. index, end of book)
Galigher Machinery Co.
Mine & Smelter Supply Co.
Moore, Chas. C. & Co. (Pumps, Mining & Mill Machinery)
Richmond, F. C. Machinery Co. (Mine, Mill & Contractors' Machinery)
Salt Lake Hdw. Co.
Silver Bros. Iron Wks Foundry
Silver, Hyram Foundry & Machine Co. (Mining, Milling, Smelting, etc.)
Trent Engineering & Machinery Co.

## VERMONT.

BENNINGTON—Scott, Olin
CHESTER—Stearns, F. H. Mfg. & Supply Co.

## VIRGINIA.

NORFOLK—Dodson, H. C.
Duvall, Geo. W. & Co.
Hobbs-Ives Equipment Co. (Boilers, Engines, Cranes, Saw Mill Mach'y, etc.)
Lumley-Dodson Co.
Price, S. M. Machinery Co.
Walke, Henry Co. (Engines, Boilers, etc.)
Westbrook, Jno. D.
PETERSBURG—Stockwell-Myers Hdw. Co.
Stratton & Bragg Co. (Engines, Boilers, Pumps, etc.)
RICHMOND—Frischkern, H. B., 801 E Cary
Morrison Mach'y & Sup. Co. (All Kinds)
Smith-Courtney Co. (Engines, Boilers, etc.)
Sydnor Pump & Well Co. (Engines, Pumps & Saw Mill Machinery)

## WASHINGTON.

OLYMPIA—Mason, C. Z.
SEATTLE—Adair, Geo. & Son Co. (Engines, Dynamos, Motors, etc.)
Blair, Wakeling & Rice (Inc.) (Engines, Boilers & Coal Mining Machinery)
Caldwell Machinery Co. (Saw Mill & Woodworking)
Eliott Bay Iron Works (Saw Mill Mach'y, etc.)
Hallidie Machinery Co. (Mining & Mill Machinery)
Hofius Steel & Equipment Co. (Locomotives, Steam Shovels, etc.)
Meese & Gottried Co. (Power Transmitting, etc.)
Moore, Chas. C. & Co. (Pumps, Mining & Mill Machinery)
Perine Machinery Co. (Inc.)
Puget Sound Machinery Depot (Saw & Shingle Mill Machinery, etc.)
Simonds Mfg. Co.
Star Machinery Co. (All Kinds)
Tatum & Bowen (Machinery of All Kinds)
United Iron Works
SPOKANE — **FAIRBANKS, MORSE &** Co. (Engines, Pumps, Boilers, etc.) (See adv. index, end of book)
Hallidie Company (Engineers & Contractors for Complete Plants & Equipment)
Mitchell, Lewis & Staver Co.
National Iron Works
Starbird, W. D. (Engines, Boilers, Saw Mill Machinery, etc.)
Union Iron Works (Inc.) (Mining Machinery, Engines, etc.)
United Iron Works
TACOMA—Baley Grader Co.
Caldwell Machinery Co. (Saw Mill & Woodworking)
Holmes Machinery & Saw Works (Jno. W. Holmes, Prop.) (Woodworking Mach'y)
Nickerson-MacFarland Machinery Co.
Puget Sound Iron & Steel Works
Puget Sound Machinery Depot
Thomas-Hammond Machinery Co.
Washington Machinery Depot

## WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.
South Side Foundry & Machine Works
CLARKSBURG—Osborn's, J. F. Sons
HUNTINGTON—Miller Supply Co.
PARKERSBURG—Stiles Mfg. Co.
WESTON—Danser Mfg. & Supply Co.

## WISCONSIN.

ASHLAND—Bretting, C. G. Mfg. Co. (Mill Machinery, etc.)
GREEN BAY—Hartman's Machinery Exchange (Carl Hartman, Prop.)
LA CROSS—McKenzie & Rodemyer Machine Co.
MILWAUKEE—American Machinery & Construction Co. (Power Transmitting & Conveying Machinery, etc.)
Galland-Henning Pneumatic Malting Drum Co., 97 Wisconsin
Grotenrath, Fred, 111 W Water
Hide & Leather Working Mach. Co. (Hide & Leather Working Machinery, etc.)
Lauson, C. P. & J. Co. (Mill Mach'y), 30th
Mertes Machinery Co. (New & Second Hand Machine Tools, Boilers, Pumps, Engines, Hoisting Engines, Brick Machinery, etc.)
Milwaukee Machinery Co., 31st & Walnut
Packard, O. L. Machinery Co. (Wood & Iron Working Machinery), 165 W Water
**SMITH, T. L. CO. THE (Engines,** pumps, Rock Crushers, etc.), Majestic bldg. (See adv. index, end of book)
Wisconsin Machinery & Mfg. Co.
Yale, H. P. & Co. (Wood & Iron Working Machinery, Engines, Boilers, etc.)
PINE RIVER—Kimball, A. M. & Son.
RACINE—Racine Engine & Machinery Co.
WAUSAU—Murray, D. J. Mfg. Co.

# Machinery (Second Hand)

(See Machinery Dealers, New & Second Hand)

# Machinists' Fine Tools

(See Specific Article Wanted)

# 7300—Machinists & Founders

Star (*) indicates Machinists.
Dagger (†) indicates Founders.
Star & Dagger (*†) indicates Machinists & Founders.
Section Mark (§) indicates Brass & Composition Founders.

All Manufacturers of Machinery, Castings, etc., who have a machine shop or foundry are classified under this heading and sub-classified in other parts of the book under the specific article they produce, such as:

Agricultural Implement Manufacturers.
Brick Machinery, Etc.
Cars, Various Kinds.
Cast Iron Pipe, Various Kinds.
Castings, Various Kinds.
Cranes, Various Kinds.
Drills, Various Kinds.
Dynamos & Motors.
Elevators.
Engines, Various Kinds.
Flour Mill Machinery.
Gears, Various Kinds.
Grinders, Various Kinds.
Hammers, Various Kinds.
Harrows, sub-classification of Agricultural Implements.
Heaters, Steam & Hot Water.
Ice & Refrigerating Machinery.
Lathes, Various Kinds.
Mining Machinery.
Paper & Pulp Mill Machinery.
Plow Manufacturers, sub-classification of Agricultural Implements.
Presses, Various Kinds.
Radiator Manufacturers.
Rolling Mill Machinery.
Saw Mill Machinery.
Special Machinery.
Steel Structural Work.
Stove Manufacturers.
Textile Machinery.
Valve Manufacturers, Various Kinds.
Wheels, Various Kinds, and hundreds of other articles too numerous to mention.

For correlative trades not included under head of Machinists & Founders see:

Automobile Builders.
Boilers, Tubular, Etc.
Bolt & Nut & Rivet Manufacturers.
Chains, Various Kinds.
Cutlery Manufacturers.
Forgings, Various Kinds.
Furnace Manufacturers, Hot Air, Etc.
Gas & Electric Fixture Manufacturers.
Hardware Manufacturers.
Rolling Mills & Steel Manufacturers.
Saw Manufacturers.
Screw Manufacturers.

For all other kindred classifications consult Index of Contents.

## ALABAMA.

ALEXANDER CITY—*§Tallapoosa Foundry & Machine Co.
ANDALUSIA—*†Andalusia Foundry & Machine Shop
ANNISTON—*†Central Foundry Co. (See New York
*†Kilby Locomotive & Machine Works (Logging Locomotives, Cars, Wheels & Axles)
*†Pan American Mfg. Co. (Staves, etc.)
*†Union Foundry Co. (Cast Iron Pipe & Fittings, etc.)
*†U. S. Cast Iron Pipe & Foundry Co. (See New York)
ATTALLA—*†Attalla Foundry & Mach. Co.
BESSEMER—*†Bessemer Foundry & Machine Co.
†Bessemer Soil Pipe Co. (Cast Iron Soil Pipe)
†Central Foundry Co. (See New York)
†Ragan Foundry & Hollow Ware Co.
*†§U. S. Cast Iron Pipe & Foundry Co. (See New York)
BIRMINGHAM—*§Ajax Metal Co. of the South
*†Alabama Consolidated Coal & Iron Co.
†Alabama Mfg. Co. (Hollow Ware)
*†American Cast Iron Pipe Co. (Cast Iron
†American Casting Co. Pipe Mfrs.)
†Avondale Stove & Foundry Co.
*Beatty, E. T.
*†Beggs Pipe & Foundry Co. (Cast Iron Pipe Mfrs.)
*†Birmingham Car & Mfg. Co. (Cars, etc.)
*†§Birmingham Foundry Co.
*†Birmingham Machine & Foundry Co. (Steam Engines, etc.)
*†Birmingham Railway, Light & Power Co.
*†Caldwell-Watson Fdry. & Mach. Co.
*Cannon Pump Mfg. Co.
*†Continental Gin Co. (Cotton Gins, etc.)
*†Coosa Pipe & Foundry Co. (Soil Pipe,
*†Decatur Car Wheel & Mfg. Co. etc.)
*†Dimmick Pipe Co. (Cast Iron Pipe for Gas & Water, Hydrants, Valves, etc.)
*†Empire Plow Co. (See Cleveland, O.)
*§Gilb, Valentine & Son. (Brass Foundry)
*†Hardie Tynes Mfg. Co. (Corliss Engines,
*Johns, J. H. etc.)
*†Kilby Frog & Switch Co.
*†Payne & Joubert Machine & Foundry Co.
*Perryman & Co. (Inc.) (Cotton Seed Machinery)
*†Republic Iron & Steel Co. (See Chicago,
*†Richards-Ingalls Iron Works Ill.)
*†Sloss-Sheffield Steel & Iron Co. (Also Mfrs. of Iron & Steel)
*Southern Bridge Co.
*†Southern Foundry & Machine Co.
†Southern Pipe & Fdry. Co. (Cast Iron Pipe)
*Steward-Witherill Machine Co.
*†Stockham Pipe & Fittings Co. (Cast Iron Soil Pipe & Fittings, Steam Fittings, etc.)
*†Tennessee Coal, Iron & R. R. Co. (Iron & Steel Castings, etc.)
*†Union Foundry & Mfg. Co.
BOAZ—*Steele, E. J.
BREWTON—*†§Brewton Iron Works
BRIDGEPORT—†Williams Stove & Range Co.
COLUMBIA—*†Jones, A. A. (Stoves)
CULLMAN—*†§Ehrensperger, J. J. (Brass Foundry)
DECATUR—*†§Jervis Foundry & Machine Co.
DEMOPOLIS—*†Demopolis Foundry & Machine Co.
DOTHAN—*†§Dothan Foundry & Machine Co.
FLORENCE—†Cohen Stove & Range Co. (Stoves, Ranges, etc.)
*†Florence Machine & Ry. Supply Co.
*†§Thoele, Phillips Mfg. Co.
FORT PAYNE—†Fort Payne Stove & Foundry Co. (Stoves, etc.)
GADSDEN—†A. & J. Mfg. Co. (Stove)
†Alabama Iron & Steel Co.
*†Campbell Mfg. & Supply Co. (Plumbers'
*†Gadsden Car Works Supplies, etc.)
†Gadsden Foundry Co.
*†Gadsden Pipe & Foundry Co. (Soil Pipe,
*Ward, Weller Mfg. Co. etc.)
GREENVILLE—*Henderson, C. C. Machine Co.
HARTSELLS—*†§Hartsells Machine Co.
HOLT—*†Central Foundry Co. (See New York)
HUNTSVILLE—*†§Huntsville Foundry & Machine Works (Iron & Brass Fdrs.)

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MOBILE — *†§Alabama Iron Works (Iron & Brass Fdrs.)
*Buerger, August (Machinist)
*†§Home Industry Iron Works
*†Louisville & Nashville R. R. Foundry &
*†§Mobile Foundry Co. Machine Shops
*†Mobile Stove & Pulley Mfg. Co. (Stoves,
*†Ollinger-Bruce Dry Dock Co. etc.)
MONTGOMERY—*Capitol City Machine Wks.
*†Hartley Boiler Works (Boiler Fronts, Grate Bars, etc.)
*†Janney & Co. (Engines, Saw Mills, Grate Bars, Brass & Iron Castings, etc.)
NEW DECATUR—*†L. & N. Ry. Foundry
*New Decatur Machine Co.
OPELIKA—*†§Collins Machine Works
OZARK—*Valentine, I. M.
PRATTVILLE—*†Continental Gin Co. (See Birmingham)
SELMA—*†Union Iron Works Co. (Engines, Locomotives rebuilt, etc.)
SHEFFIELD—*†Gilb, V., & Co. (See Birm-
*†King Stove & Range Co. ingham)
*†Lowman Lizzie Co. (Stoves)
*†Sheffield Cast Iron Pipe & Foundry Co. (Cast Iron Pipe for Gas & Water)
*†Sheffield Casting & Mfg. Co. (Castings
*†§Sheffield Iron Works etc.)
*†Sheffield Steel Range & Stove Co. (Stoves)
TALLADEGA—*†§Birmingham & Atlantic Ry. Foundry
*†§Talladega Foundry & Machine Co.
TUSCALOOSA—*Strickland Bros. Machine Co.
TUSCUMBIA—*†Rowland, T. T. & Son (Cultivators)
WHISTLER—*†Mobile & Ohio R. R. Foundry

## ALASKA TERRITORY.

KETCHIKAN—*Schlotham, W. F.
SKAGWAY—*†§White Pass & Yukon Ry.
TREADWELL—*†Alaska Treadwell Gold Mining Co.

## ARIZONA TERRITORY.

CLIFTON—*†§Arizona Copper Co.
DOUGLAS — *†§Copper Queen Consolidated Mining Co.
JEROME—*†United Verde Copper Co.
NOGALES—*†Arizona & Sonora Mfg. Co. Mining Machinery, Castings, etc.)
*Roy & Titcomb (Inc.) (Gasoline Engines)
PHOENIX—†Arizona Iron Works
*Kunz Bros. & Messinger
*Phoenix Machine & Cold Storage Co.
†Williscroft, Geo. R.
PRESCOTT—*Prescott Iron Works
*Tilton, B. (Machine Shop)
TUCSON—*Derrig, M. W.

## ARKANSAS.

BATESVILLE—*Kealer, G. H.
BRINKLEY—*†Brinkley Car Works & Mfg.
CAMDEN—*†Waters Foundry Co. Co.
CORNING—*Booser & Sigler
DARDENELLE—*Cox, Thos. Machinery Co.
*†Partin, W. E.
FAYETTEVILLE—*Sandford & Son.
FOREMAN—*†Ames Shovel & Tool Co. (of Boston, Mass.)
FORT SMITH—*†Ketcham Iron Co. (Engines, etc.)
*†Mehlberger Iron Co.
HELENA—*Allin Machine Works
HOT SPRINGS—†Bauer. J. A.
Shelton, W. H. & Sons
JONESBORO—*†Jonesboro Iron & Engine Co.
LITTLE ROCK—*†Dickinson Ball Bearing Wheel & Vehicle Co. (Ball Bearing Wheels)
*†§Thomas-Fordyce Mfg. Co.
*†Wing & Stephens Co. (Engines, etc.)
MORRILLTON—*†De Long Machinery Co.
*†Lachowsky, A. A.
PARAGOULD—†Roy Plow Co. (Plows, etc.)
PINE BLUFF—*†Dilley Foundry Co. (Saw Mill Machinery, Castings, etc.)
*†Lelaurin, A. A.
*†§Pine Bluff Iron Works (Iron & Brass
RECTOR—*§Harper, J. C. Founders)
RUSSELLVILLE—*†§Russellville Iron Works
*Sauerman & Ball
TEXARKANA—*De Marce, Mrs. A. (Engines, Castings, etc.)
VAN BUREN—*Engineering Works. (Industrial Cars, etc.)
*†§Morell, Jas.

## CALIFORNIA.

ALAMEDA—*†§Delanoy Mfg. Co. (Plumbers' Fittings, etc.)
*Gorham Engineering Co. (Marine Gas Engines, etc.)
*Hercules Gas Engine Works (Gas Engines, etc.)
*†United Iron Works (See San Francisco)
ALTAVILLE—*†Angels Iron Works
BAKERSFIELD—*†Bakersfield Iron Works
BENICIA—*†Benicia Iron Works (Plows, Cultivators, Harrows, etc.)
BERKELEY—*†Berkeley Iron Works, W. B.
†Macauley, H. C. Foundry Co.
*Schuyler Co. (Tools, etc.)
*†Van Emon Elevator Co.
CHICO—*Bullard, Walter (Hay Presses, etc.)
*†Chico Iron Works
*†Diamond Match Co. (Engineering Dept.)
*†Mery, M. L. (Castings & Machy.)
COALINGA—§Axelson Machine Co.
*†§Bunting Iron Works
*†Coalinga Iron Works
COLUSA—†Wulff, Frank
DANVILLE—*Mitchell, A. H.
ETNA MILLS—*†Knight, Elias & Son
EUREKA—*†Eureka Foundry Co.
*Lane, J. R. (Gas Engines, etc.)
†Victor, Wm. A.
FRESNO—*Central California Machine Wrks.
†Burnett, J. H. (Gas Engines, etc.)
*†Fresno Agricultural Works (Inc.) (Agricultural Implements)
†Novelty Iron Works (Jos. Halford, Prop.)
*†Traves, Chas. E. (Machinist & Foundry)
*†Valley Foundry & Machine Works
*Woodward Co. (Machinists & Agricultural Implements)
FULLERTON—*Hiltscher, J. F. & Co.
GOLETA—*Maiers, G. F.
GRASS VALLEY—*†George Bros.
*†§Taylor Foundry & Engineering Co. Vacuum Filters, Steam Engines, etc.)
GREENVILLE—*†Anderson, Alex.
HANFORD—*Braden Mfg. Co. (Agr'l Impl's, Gasoline Pumps, etc.)
LOS ANGELES—*†§Acme Brass Foundry Co. (Brass & Bronze Castings, etc.)
*†Advance Machine Co.
*†§Axelson Machine Co. (Brass Fdrs. & Machinists)
*†§Bailey Ornamental Iron Co.
*†Baker Iron Works
†§Bruce, Thos. P. Mfg. Co. (Plumbers' Goods)
*†California Lock & Hardware Co. (Hardware Mfrs.)
*California Well Tool & Machine Works
*Commercial Engine Co., 953 N Main
*Dixon Machine Works (Oil Burners, etc.)
*Enterprise Machine Works
*†Fruhling, A. G.
*†§Fulton Engine Works (Inc.) (Mining, Oil Well & Saw Mill Machinery & Iron &
*Harrison, C. W. Brass Castings, etc.)
†§Hutchison, W. G. Co. (Brass Fdrs. etc.)
*†Johnson Foundry & Machine Works
*§Jones, Jas. Co. (Brass Fdrs.)
*†Keystone Iron Works
*†Kilerfer Mfg. Co. (Cultivators, etc.)
*Livingston & Lee. (Gas Engines, etc.)
*†§Llewellyn Iron Works (Mining Mchy., Iron & Brass, etc.)
*Los Angeles Engine Works
*†Los Angeles Foundry Co.
*Los Angeles Mfg. Co. (Pipes, Tanks, etc.)
*†§McCan Mechanical Works (Iron & Brass Foundry, Pattern Shop, Machine Shop,
*Maine Machine Works etc.)
*Meese & Gottfried Co. (Pulleys, etc.)
*Mills Iron Works
*†§O'Neil, A. S. Co.
*Pacific Coast Mfg. Co.
*†Pacific Electric Railway Co.
*†Pacific Surgical Mfg. Co. (Surgical In-
*§Parmelee, Z. L., Co. struments)
*†Phillips Heating, Vent. & Mfg. Co. (Hot Air Furnaces, etc.)
*Pilgrim Iron Works (Rock Crushers, Power Transmission, Hoists & All Kinds of Mining Machinery)
*Pioneer Boiler & Machine Works (Machin-
*Sjostrom, Victor ists)
*Speer Gas Machinery Mfg. Co. (Gas Machines)
*Stearns Gas Engine Works (Engines, Plows
*Stewart, A. C. Co. & Pumps)
*Thacker, F. L.
*Trinkkeller, E. (Ornamental Iron)
*Union Iron Works (of Los Angeles)
*†Union Tool Co. (Oil Well Tools)
†United Casting Co.
*Vulcan Iron & Tool Works
*†Washington Iron Works
*†§Western Gas Engine Co.
*Wigmore, John, & Sons Co. (Machine
*Wilgus Mfg. Co. Tools, etc.)
MARYSVILLE—*†§Empire Foundry (Harvesters, Castings, etc.)
*Marysville Machine Works (Pumps. Mining
*Ogden, J. G. Machinery, etc.)
*Yuba Construction Co. (Machine & Structural Work)
MONTAGUE—*Florencio, John
*McClellan, A. H.
MONTEREY—*Langdon, Horace
NAPA—*Jacobson, J. C.
*Lindow, W. J.
*Napa Pump Mfg. Co. (Pumps, Pruning Shears, etc.)
NEEDLES—*Needles Machine Works
NEVADA—*†Miner's Foundry & Supply Co.
NEWARK—*†Graham, James Mfg. Co. (See San Francisco, Cal.)
NILES—*†§Ames, A. T. Mfg. Co. (Pumps, etc.)
OAKLAND—*Atlas Gas Engine Co. (Gas Engines, etc.)
*Bowen & French Mfg. Co. (Agr'l Imple-
*†Dalton, Henry & Sons Co. ments, etc.)
*Duck Cycle & Motor Co. (Motor Cycles,
†Empire Foundry Co. Bicycles, etc.)
*†§Judson Mfg. Co. (See San Francisco)
*†§Matthews, F. I. (Iron & Brass Founder
*Oakland Machine Works & Machinist)
*§Oakland Traction Co.
*†§Phoenix Iron Works (Iron & Brass Founders, Machine Castings, etc.)
§Pioneer Brass Foundry
*Scoville Iron Works
*§Standard Brass Casting Co. (Brass
†Standard Foundry Castings, etc.)
*Stearns Bros.' Spraying Machine Co. (Spraying Machines & Automobiles)
*†Union Gas Engine Co. (Gas & Oil En-
*Union Machine Works gines)
*United Iron Works. (Dredging, Mining & Pumping Machinery, etc.)
*§Young, R. S. Supply Co. (Brass Foun-
OAK PARK—*Latourette & Fical Co. ders)
ONTARIO—*†§Pacific Electric Heating Co. (Laundry Irons, etc.)
OROVILLE—*Boston Machine Shop Co.
*Indiana Machine Shop Co.
*New York Machine Shop
PASADENA—*†Reliance Machine Works
*Wingren, Chas. O.
PLACERVILLE—*†El Dorado Foundry Co.
POMONA—*†§Pomona Mfg. Co. (Traction Engines, etc.)
RED BLUFF—§Diamond Match Co.
†Hammer, H. H.
REDLANDS—*†Osbun Iron Works
RIVERSIDE—*†California Iron Works
SACRAMENTO—*Capital Machine & Auto Co.
†Chapin, W. W.
*Davies, John G.
*†§Peerless Iron Works
*†§Root, Neilson & Co. (Iron & Brass Founders & Machinists
*†§Sacramento Foundry & Machine Works
*†§Southern Pacific Railway Foundry
*Veach, F. H.
SALINAS—*Iverson Bros. (Machinists, etc.)
*Lacey, Geo. E.
ST. HELENA—*Grant, P. S.
SAN BERNARDINO—*†Hanford, J. J.
*†Parker Iron Works
SAN DIEGO—*†Clarke Machinery E Electrical Co.
*Hunt Automobile Co.
†Ingle Mfg. Co. (Stoves, etc.)
†McCoy, Thos. & Sons
*†Standard Iron Works
*†Sterne Bros. Co.
*Wilson, James D.
SAN FRANCISCO—*Acme Iron & Wire Works, 35 Boardman pl
*†§Ajax Brass & Iron W'ks, 45 Clementina
*Aicher, Gustave A., 1650 Stockton
*Aicher Machine Works, 1650 Stockton
*American Tool Works (Well Boring Tools, etc.), 109 Mission
*†§Atlas Brass Works, 827 Folsom
*Bailey-Smith Machine Co., 71 1st
*Bay City Iron Works, 1243 Harrison
*†Betts Spring Co. (Carriage, Wagon & Car Springs), 218 Fremont
*Binns, Wm. H. (Machines & Tools), 416 Harrison
*Blasauf & Sunpkel, 81 City Hall av
*†Brode Iron Works (Founders & Machinists), 621 Howard
*Brunigs, Robert, 516 Brannan
*†California Adding Machine Co. (Adding Machines), Flood bldg
*§California Artistic Metal & Wire Co., 347 7th
*California Plating & Machine Works, 25 Zoe
*California Saw Works (Saws & Machinery), 721 Brannan
*California Tool Works (J. Weichhart, Prop.) (Machinists & Dies & Models. etc.), 143 Beale
*†Carr Foundry & Machine Works, 932
†Central Iron Works, 631 Florida Folsom
*Cereghino, D. (Pumps, etc.), 4445 Mission
*Christie Machine Works, 191 Fremont
*Clot & Christ Mach. Co. (Steam & Power Pumps, etc.), 940 Bryant

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*Columbia Machine Works (Machinists), 215 Spear
†Columbia Steel Co. (Open-Hearth Steel
*Compressed Air Machinery Co. Castings)
*Corliss Gas Engine Co. (Gasoline & Oil Engines), 227 Folsom
*Cyclops Iron Works (Brewery Machinery, Engines, Ice & Refrigerating Machinery, Printing Presses, etc.), 223 Main
*§Day, Thos. Co. (Brass Fdrs. & Finishers), 719 Mission
*§De Rome, Louis (Brass & Bronze Founder), 126 Main
*†Doble, Abner Co. (Tools & Machinery)
*†Dow, Geo. E. Pumping Engine Co. (Pumps & Hydraulic Machinery, etc.)
*†Dundon's, F. P. San Francisco Iron Works (Engine, Boilers, etc.), 223 Folsom
*Dyer Bros. (Bldrs. Iron Work), 17th & Kansas
*†Enterprise Foundry Co., 19th & Florida
*Evans, C. H. & Co. (Engines, Pumps, etc.), 187 Fremont
*Falls Mfg. Co. (Hdware, Specialties, etc.)
*§Farrenkopf, Chas. & Sons, 623 Main
*Gali Machine Works (Machinists)
*†§Garratt, W. T. & Co. (Brass & Bell Founders & Machinists), 138 Fremont
*†Golden State & Miners Iron Works (Engines & Mining Machinery), 231 1st
*†Graham, Jas. Mfg. Co. (Stove & Range Mfrs. & Light & Grey Iron Castings), 27 Minna
*Gray, J. A. Co. (Presses, Dies, Tools, etc.), 18th & Bryant
*§Greenberg, M. & Sons (Brass Foundry & Plating Works), 225 Beale
*†Hammond, J. & Co. (Car Bldrs., Electric Elevators, Machine Work, etc.), 7th &
*Haslehurst, W. W., 2122 Folsom King
†Hedley, John, 215 Harrison
*†Hendy, Joshua Iron Wks. (Mining & Woodworking Machinery, Castings, etc.)
*Hicks, Jas. L. (Gasoline Engines, Tools, etc.), 967 Howard
*Imperial Gas Engine Co. (Gas & Oil Engines), 60 Clementina
*Irvin Machine Works, 335 Golden Gate av.
*†Jackson, Byron Machine Works (Engines, Pumps, etc.)
*Jackson, P. H. & Co. (Inc.) (Arch's Iron & Steel Work, Sidewalk Lights, etc.), 225 1st
*Johnson Gear Co. (Cut Gears, Tools, etc.)
*Johnson, S. T. & Co. (Oil Pumps, etc.), 1334 Mission
*†Judson Mfg. Co. (Machine & Bridge Work & Castings), 819 Folsom
*§Kingwell, Vincent (Brass & Bell Foundry), 1038 Mission
§Krenz, Oscar, Copper & Brass Works (Brewers Supplies, etc.), 212 Fremont
*Krogh Mfg. Co. (Irrigating, Mining, Mill & Wine Making Machinery, etc.), 149
†Liberty Iron Works, 229 Main Beale
†Lutge, Richard (Iron Founders), 3153 18th
†McCormick Bros. Iron Works, Main & Folsom
*Main Street Iron Works (Wm. Deacon, Prop.) (Engines, etc.)
*†Meese & Gottfried Co. (Engines, Ice Machines, Power Transmitting, etc.), 19th & Harrison
†Mission Fdry. & Stove Works (Stoves, etc.), 19th & Treat av.
*†Moore & Scott Iron Works (Boilers, etc.), 638 2d
*†Muir & Symon (Inc.) (Marine Iron
*Murray Bros. Works), 1015 Battery
*North Machine Co., 324 Main
*North Star Iron Works, 1271 Folsom
*†Ocean Shore Iron Works (Boilers, Tanks, Structural Work), 550 8th
*†Ohmen Engine Works (Steam Engines), 17th & Capp
*Orton, C. K. Machine Co., 315 Fremont
†Pacific Foundry Co., 18th & Harrison
*Pacific Gear & Tool Works (Cut Gears, etc.), 1265 Folsom
†Pacific Jupiter Steel Co. (Steel Foundry)
*†Pacific Rolling Mill Co., 17th & Mississippi
*†Pacific Ship Yard & Ways Co., 48 Steuart
*†Pacific Structural Iron Works, 1021 Bryant
*Pacific Tank & Pipe Co. (Mining Machinery), 318 Market
*Parsons & Blackmon Machine Co., 311 Harriett
*†Pelton Water Wheel Co. (Water Wheels for Power, etc.), 19th & Harrison
†Potrero Foundry (Inc.), Indiana & 22d
†Ralston Iron Works (Builders' Iron Work & Castings), 20th & Indiana
*Rix Compressed Air & Drill Co. (Rock Drills, Air Compressors, etc.), 219 Spear
*†§Rudgear-Merle Co. (Brass & Iron Bedsteads, Art Metal Work & Castings)
§Sanders & Co.s Copper W'ks, 304 Howard
*†San Francisco Stove Works (Stoves, Ranges, Castings, etc.), 244 Townsend
*San Francisco Engineering Co. (Machinery), 322 6th
§San Francisco Zinc & Brass Foundry, 48 Clementina
†§Sartorius Co. (Arch'l Iron Works), 15th & Utah
*Schilling, Adam & Sons, 211 Main
†Schrader's Iron Works, 1249 Harrison
*Speck, Wm. (Gear Cutting, Laundry Machinery, etc.), 2132 Folsom
*†Standard Gas Engine Co. (Gas Engines), 436 Market
*†Steiger & Kerr Stove & Fdy. Co. (Stoves, Mining Machinery, Bridge and Building Castings, etc.)
†Stoesser, F. & Son, 39 Shotwell
*†Sunset Iron Works, 1057 Folsom
*Swain Hadwen Mfg. Co. (Gas Engines, etc.), 92 7th
†Thompson Bros. (Iron Fdrs.), 625 Brennan
*Todt & Peters, 322 Main
*Toulouse & Delorieux (Machinists), 489 8th
*§Troy Laundry Machinery Co., Ltd. (Laundry Machy.)
*Union Gas Engine Co. (Gas & Gasoline Engines)
*†§Union Iron Works Co. (Ship Builders, Steel & Iron Castings & Steam Engines)
*Union Machine Co., 934 Brannan
*United Engineering Works (Ship Builders, Marine Engines, etc.), 254 Spear
*†United Iron Works (Centrifugals, Pumps & Mining Machinery, etc.)
*†§U. S. Navy Yard Fdry., Mare Island
*†Van Emon Elevator Co. (Electric & Hydraulic Elevators)
*†Vulcan Iron Works (Engines, Ice & Refrigerating, Mining & Saw Mill Machinery), 604 Mission
*Welshons & Symon, 3648 18th
*†Western Iron Works (Fire & Burglar Proof Doors, Shutters, Bank Vaults, Fire Escapes, etc.), 123 Beale
†Withington, C. W. (Ornamental Iron Work), 416 2d
*Woodin & Little (Windmills, Pumps & Brass Goods), 70 Fremont
SAN JOSE—*†Anderson-Barngrover Mfg. Co. (Fruit Grading & Packing Machines)
*†Caton's Foundry & Machine Co.
*†Holmes Machine & Tool Mfg. Co.
*†Kuchenbeiser, F. Co.
*§Ostenberg Mfg. Co. (Gas Engines, etc.)
*§San Jose Brass Foundry
*†San Jose Foundry
*Wight, David (Machinist)
SAN LEANDRO—*†Best Mfg. Co. (Harvesters, Binders, Traction Engines, etc.)
*Junior Monarch Hay Press Co. (Hay Presses, etc.)
SANTA BARBARA—*Higgins Machine Co.
*†Wood-Redington Machinery Co.
SANTA MARIA—*Roemer & Roemer (Pipe Wrenches)
SELMA—*Vincent, M. (Agr'l Implts.)
SONORA—*Damas Machine Works
STOCKTON—*Geiger, J.
*†§Globe Iron Works (Inc.) (Engines & Dredging Machinery)
*Harris Mfg. Co. (Harvesters)
*†Holt Mfg. Co. (Agricultural Implements, Traction Engines, etc.)
*†Houser & Haines Mfg. Co. (Harvesters, Grain Drills, etc.)
†§Monarch Foundry Co.
*†Samson Iron Works (Inc.) (Gas Engines, Irrigating Pumps, Castings, etc.)
*Shaw, H. C. Co. (Harrows & Plows)
*Stockton Gas Engine Co.
*†§Stockton Iron Works (Dredges, Engines, Castings, etc.)
SUNNYVALE—*†Goldy Machine Co. (Woodworking Mach'y, etc.)
SUTTER CREEK—*†Knight & Co. (Water Wheels, 100 to 2500 h. p., Castings, etc.)
TERMINAL—*Warner, C. D.
TUOLUMNE—*†Holman, F. C.
VENTURA—*†Ventura Mfg. & Implement Co. (Agrl. Implts., etc.)
VISALIA—*†Coats, J. R.
WALNUT CREEK—*Kirsch, Michael
WOODLAND—†Faulkner, Peart & Langenour

## COLORADO.

ASPEN—*†§Mellor, Jos.
BLACK HAWK—*†§McFarlane & Co.
*Stroehle, Geo. & Son
BOULDER—*Boulder Iron Works Co.
*†Devline Foundry & Machine Shop
CANON CITY—*†Canon Foundry & Machine Co.
CENTRAL CITY—*†McFarlane & Co. (Mining Machinery, etc.)
COLORADO CITY—†Progressive Stove & Furnace Co. (Stoves, Furnaces, etc.)
COLORADO SPRINGS—*Bumstead, Frank F. & Co.
*†§Hassell Iron Works Co. (Rock & Ore Crushers, Horse Power Hoists & Iron &
*Strang, C. G. Brass Castings, etc.)
DELTA—*†§Mundry. Peter
DENVER—*Althoff Mfg. Co. (Refrigerating Machinery & Supplies, 1540 16th
*Anderson, Chas. M., 1831 Blake
*Card, C. S. Iron Works Co.
*Carnahan, C. T. Mfg. Co. (Rock Drills,
*†Clark Foundry Co. (J. S. Clark) etc.)
*†§Colorado Fuel & Iron Co. (Iron, Steel & Brass Castings, All Comsumed by the Company; also Machines for Roll Turning Repairs, etc.)
†Colorado Gray Iron Foundry Co.
*†Colorado Iron Works Co. (Mining & Smelting Machinery, Iron Forgings, etc.),
†Cox, Thos & Son 33d & Wynkoop
*†Davis, F. M. Iron Works Co. (Mining & Power Transmitting)
*§Denver Brass Works Co. (Brass Founders & Finishers), 1307 Lawrence
*†Denver Engineering Works Co. (Mining Machinery, Iron Forgings, etc.)
*†Denver Iron Works & Foundry Co.
*†Denver Rolling Mills & Foundry Co.
*Dillon Iron Works Co.
*†Enz & Orr, 1741 Blake
*Flint-Lomax Electric & Mfg. Co. (Electrical Machinery & Repairs)
*Gair & Binderup
*Gartman, C. E. (Machinists), 1414 15th
*†Great Western Machinery Co.
*†Griffin Wheel Co. (See Chicago, Ill.)
*Havens Bros. Mfg. Co.
*Hendrie & Bolthoff Mfg. & Supply Co. (Mining & Mill), 1621 17th
*Hingsley, J. A. (Machinist)
*†Iler Fdry. & Machine Co.
*Leavitt, W. S. (Tools, etc.)
*McFarlane, Peter & Sons Iron Works Co. (Mining & Milling Mach'y, etc.)
*†Maclear Mfg. & Supply Co.
*†Mine & Smelter Supply Co. (Mining Machy. & Castings), 17th & Blake
*Nock & Garside (Elevators, etc.)
†Pioneer Iron & Wire Works Co.
*Plattner Implement Co. (Rakes, Harrows, etc.)
*†Queen City Foundry Co., 4th & Wazee
*Sachs-Lawlor Machine & Mfg. Co., 1543 Lorimer
*Scott Supply & Machin'y Co. (Machinists)
*Shaw, C. H. Pneumatic Tool Co. (Pneumatic Tools), Wazee cor 35th
*†Slack-Horner Brass Mfg. Co. (Brass, Copper, Gold, Nickel, Silver, etc.)
*Southard & Fish, 1932 Curtis
*Star Boiler & Sheet Iron Works
*†Stearns-Roger Mfg. Co. (Crushing Rolls, Machinery for Smelting, Sampling, Milling & Concentrating Ores, etc.), 1718 California. Works: Pueblo, Colo.
*Traylor, John A. Machinery Co.
*Truax Mfg. Co. (Steel Ore & Service
*Vulcan Iron Works Co., 1722 Wazee Cars)
*†Walker Mfg. Co., 2156 15th
§Western Brass Works Co.
†Western Iron Foundry Co.
DURANGO—*†Ball Foundry & Machine Works
*†§Vulcan Foundry Co.
FLORENCE—*†Florence Iron Works Co. (Gas Engines, etc.)
GREELEY—*Brown, Peter (Potato Harvesting & Sorting Machinery)
*Lester, W. E.
LEADVILLE—*†Engelbach Machine Mfg. Co.
*†McCarty & Moore
LITTLETON—*Leyner, J. Geo. Engineering Works Co. (Compressors, Rock Drills, Pneumatic Tools, etc.)
LONGMONT—*†Longmont Foundry & Machine Co.
MONTE VISTA—*Elliott, D. J.
PUEBLO—*†§Colorado Fuel & Iron Co. (See
*Hochenauer, Joseph Denver, Colo.)
*Mead Hay Press Co. (Harrows. Cultivators, etc.)
*†§Ortner, Geo. J. (Brass Fdry., etc.)
*†§Pueblo Foundry & Mach. Co.

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ROCKY FORD—*†§Goodner Pump & Mfg. Co.
TELLURIDE—*†Sackett, H. M.
TRINIDAD—*Hawkins & Barnett
*†Trinidad Fdry. & Machine Works
VICTOR—*†McCool, Robt.
WALSENBURG—*†Walsenburg Foundry & Mfg. Co.

## CONNECTICUT.

ANSONIA—*§Ansonia Brass Fdry. Co.
*Ansonia Electrical Co. (Electrical Specialties)
*Ansonia Mfg. Co. (Brass Goods) etc.)
*Cameron, H. P. Elec. Mfg. Co. (Electrical Specialties)
*§Cook, Henry C. Co. (Special Machinery & Brass Novelties)
*†Farrel Foundry & Machine Co. (Paper & Pulp Mill, Rolling Mill, Rubber, Stone Sawing, Veneer Cutting, Wire Insulating, Wire Straightening & Cutting, Machinery, etc.)
*§Excelsior Faucet Mfg. Co.
§Gaylord, F. L. Co. (Light Brass & Bronze Castings)
*Otis, Fred W.
†§Phelps, H. D. (Brass Foundry)
BANTAM—*Bantam Anti-Friction Co. (Ball & Roller Bearing, Motors & Motor Vehicles, etc.)
BRANCHVILLE—*Grumman Ice Tool Works, Inc. (Ice Tools, etc.)
BRANFORD—*†Hammer & Co. (Malleable Iron Castings & Hdwe. Specialties, etc.)
*†Malleable Iron Fittings Co. (Malleable Iron Pipe Fittings & Semi-Steel & Steel Castings)
BRIDGEPORT — *Acme Shear Co. (Shears)
*Acme Oil Engine Co. (Oil Engines)
*Adams, A. L. (Corset Machinery)
*§American Graphophone Co.
*§American Specialty Co. (Hardware Specialties)
*American Tube & Stamping Co. (Drop Presses, etc.)
*†American & British Mfg. Co. (Corliss Engines, Driving Wheels, etc.) (See also Providence, R. I.)
*ARMSTRONG MFG. CO. (Pipe Cutting & Threading Machines, etc.) 278 Knowlton. (See adv. Index, end of book)
*†§Ashcroft Mfg. Co. (Steam Gauges, etc.)
*Atlas Shear Co. (Shears, etc.)
*Automatic Machine Co. (Automatic & Special Machy.)
*Beers, P. M. & Son (Needles, etc.)
*§Belknap Mfg. Co. (Brass Fdrs. & Brass Goods for Steam, Gas & Water)
*Black Rock Machine Co. (Marine Engines, etc.)
*Bradley, H. C. (Wood Turning Mach'y, etc.)
*Breul, Fred G. (Punch & Die Work, Machinery, etc.)
*Bridgeport Brass Co. (Brass Tubing, Lamps, etc.)
*Bridgeport Chain Co. (Chains, etc.)
*§Bridgeport & De-Oxidized Bronze & Metal Co. (Deoxidized Bronze Ordnance, Comp. Castings, etc.)
*Bridgeport Forge Co. (Machine Jobbing)
*†§Bridgeport Foundry & Machine Co. (Brass, Bronze & Iron Castings, etc.)
*Bridgeport Hardware Mfg. Corp. (Hardware Specialties)
†Bridgeport Malleable Iron Co.
*Bridgeport Motor Co. (Gasoline Motors, etc.)
*Bridgeport Safety Emery Wheel Co. (Emery Wheel Machy.)
*Bryant Electric Co. (Electrical Specialties.)
*Bullard Machine Tool Co. (Machine Tools, etc.)
*§Burns & Bassick Co. (Brass & Bronze Castings & Furniture Trimmings)
*Challenge Cutlery Corp. (Cutlery, etc.)
*Coe-Stapley Mfg. Co.
*Columbia Nut & Bolt Co. (Bolts, Nuts,
*Connecticut Clasp Co. (Clasps, etc.) etc.)
*Consolidated Safety Valve Co.
*Cornwall & Patterson Mfg. Co. (Piano Hdw., etc.)
*†Coulter & McKenzie Machine Co. (Rivet & Spring Machy., Presses, Punches, Shears, Drop Hammers, etc.)
*†§Crane Valve Co. (Brass & Iron Valves, Fittings, etc.)
*Curtis & Curtis Co. (Pipe Cutting & Threading Machines, Stocks & Dies, etc.)
§Donovan, P. J., Brass Foundry Co.
*Fairfield Motor Co. (Gasoline Motors, etc.)
*Farist Steel Co. (Steel Car Springs, Railroad & Machy. Forgings)
*Fray, Jno. S. & Co. (Ratchet & Drill Braces & Tool Sets)
*Gaynor & Mitchell Mfg. Co. (Brass Novelties)
*Grant Mfg. & Machine Co. (Screw Slotting Machines & Tool Post Grinders,
*Hall, C. W. Carriage Co. etc.)
*§Hamilton, Jno. Brass Works (Brass Fdry & Finisher, Plumbers' Brass Goods)
*Hatheway Mfg. Co. (Metal Goods & Dies)
*Hawthorne Mfg. Co. (Inc.) (Talking Machine Supplies, etc.)
*Hitchcock Gas Engine Co. (Gas Engines, etc.)
*Hotchkiss, E. S. (Light Hardware, etc.)
*Hubbell, Harvey (Inc.) (Screw Slotting & Riveting Machines)
*Hurley, John A. (Inc.) (Lanterns & Food Choppers)
*Ives Mfg. Corp. (Hardware Specialties, etc.)
*Kinsley Mfg. Co. (Steam Whistles, etc.)
*Knapp, Geo. S. (Hardware Specialties, Art Metal Goods, etc.)
Lake Torpedo Boat Co. (Submarine Torpedo Boats)
*Liberty Cycle & Motor Mfrs. (Bicycle
Locke Steel Belt Co. Mfrs.)
†Manufacturers' Iron Foundry
§Monumental Bronze Co. (Bronze Monuments, etc.)
*Nilscn, A. H. Machine Co. (Special Automatic Machinery, etc.)
†Parsons, R. E. Co. (Grey Iron Castings, etc.)
†Pequonnock Foundry (Inc.) (Gray Iron Castings, etc.)
*Perkins Electric Switch Mfg. Co. (Electrical Supplies)
*Ready Tool Co. (Lathe Tools)
*Reliable Machine Co.
*Royal Engine Co. (Gasoline Engines, etc.)
*Royal Equipment Co. (Auto Brakes, etc.)
*§Sanford, David C. Co.
*Sanford, F. C. Mfg. Co. (Welding Machines, etc.)
*Singer Mfg. Co. (Sewing Machines, etc.) (See New York)
*Smith & Egge Mfg. Co. (Hdw. Specialties, etc.)
*Somers, Jas. M. & Co. (Brass Rules)
*Special Machinery Co. (Automatic Machy., etc.)
*Sprague Meter Co. (Gas Meters, etc.)
*Spring Perch Co. (Springs, etc.)
*Springfield Mfg. Co. (Emery Wheel Machinery)
*Standard Coupler Co. (Car Couplers & Steel Platforms)
*Standard Mfg. Co. (Slotting & Gear Cutting Machines, etc.)
*Union Metallic Cartridge Co.
*Union Typewriter Co. (Typewriters)
*Walter, Edw. P. (Metal Plating & Shaping Machines, etc.)
*Weidlich Bros. Mfg. Co. (Metal Goods & Novelties
*Weld Mfg. & Supply Co. (Air Compressors, Automatic Machy.)
*Wheeler Engine Works (Tools, etc.)
*White Mfg. Co. (Carriage Lamps & Mountings, etc.)
*Wolverine Motor Works (Marine Engines,
*Yates & Underhill (Machinists) etc.)
BRISTOL—*Barnes, Wallace Co. (Steel Springs, etc.)
*§Bristol Brass Co. (Brass & Bronze Fdrs.)
*Bristol & Plainville Tramway Co.
†Clayton Bros. (Inc.) (Shears, Light Hdwe., etc.)
*Dunbar Bros. (Cock Springs, etc.)
*Horton, Everett (Clock Machinery & Dies)
*Horton Mfg. Co. (Steel Fish Rods, etc.)
*Ingraham, E. Co. (Clock Mfrs.)
*Ladd, W. C. (Clocks, Bells & Light Hdw.)
*§New Departure Mfg. Co. (Bell Founders & Mfrs.)
*Penfield Saw Works (Saws, etc.)
*Root, C. J. (Registering Machines, Wrought Brass Hinges, etc.)
*†Sessions Foundry Co. (Grey Iron Castings)
*Smith, Marshall I. (Dies, Punches & Tools)
*Snyder, L. H. & Co. (Floor & Ceiling Plates)
*Thompson, H. C. Clock Co. (Clock Movements)
†Turner Heater Co. (Hot Air Furnaces, etc.)
*Turner & Deegan (Bit Braces, etc.)
BROOKFIELD — *Lennox Shear Co. (Shears, etc.)
CENTERBROOK—*Connecticut Valley Mfg. Co. (Bits)
CHESTER—*Chester Mfg. Co. (Augers, Bits,
*Deuse, J. S. (Gimlets, etc.) etc.)
*Jennings, Russell, Mfg. Co. (Augers, Bits, etc.)
COLLINSVILLE—*Collins Co. (Plows, Tools, etc.)
COS COB—†Oarr, H. J. & Son (Iron Castings,
*Palmer Bros. (Gasoline Motors, etc.) etc.)
CROMWELL—*§Stevens, J. & E. Co. (Toys, Hardware, etc.)
*Warner Hammer Co. (Hammers, etc.)
DANBURY—*Albert, Ferdinand (Machinist)
*Boesch Mfg. Co. (Tools, etc.)
*Doran Bros. (Hat Machy.)
*Heim Machine Co. (Hatting Machy.)
§Henebry, Thos. F. (Brass Foundry)
*Morlock, Wm. (Machinist)
*New Machine Co. (Machinists)
*Rogers Telephone & Electric Co. (Electric Goods)
*Russel Electric Co. (Electrical Goods)
*†Turner Machine Co. (Hat Machy.)
DANIELSON—*Bradford, Thos.
DEEP RIVER — *Jennings Russell Mfg. Co. (Augers, Bits, etc.)
DERBY—†Automatic Electric Time Switch Co.
*†Birmingham Iron Foundry (Rubber Mill & Rolling Mill Machinery, Iron & Semi-Steel Castings, etc.)
*Dairy Machinery & Construction Co.
*Graham Mfg. Co. (Hdw. & Locksmiths'
*Housatonic Motor & Machine Co. Supplies)
*O. K. Tool Holder Co. (Tool Holders & Lathe & Planer Tools, etc.), Shelton
*Secor Typewriter Co. (Typewriters)
*Shelton Co. (Tacks, Carriage Bolts, etc.)
*Star Pin Co. (Pins, etc.), Shelton
*U. S. A. Co. (Pins, Hooks & Eyes, etc.)
*United States Rapid Fire Gun & Power Co. (Engineers & Machinists, "Francke" Four Ported Steam Engines, Hydraulic Presses, Stone Working Machinery, etc.).
*†§Whitcomb Metallic Bedstead Co. (Metallic Bedsteads)
*†Whitlock Printing Press Mfg. Co. (Printing Presses)
*Williams Typewriter Co. (Typewriters)
EAST HAMPTON—*†§Bevin Bros. Mfg. Co. (Bell Fdrs. & Mfrs.)
*Brown, H. B. Co. (Bolt & Nut Machy.)
*§East Hampton Bell Co. (Bell Fdrs. & Mfrs.)
*§Gong Bell Mfg. Co. (Bell Fdrs. & Mfrs.)
*§Hill, N. N. Brass Co. (Bell Fdrs. & Bell Mfrs.)
*§Starr Bros. Bell Co. (Bells, Gongs, etc.)
ESSEX—*Hayden, L. S.
FARMINGTON—*Wallace, N. (Lightning Rods)
FORESTVILLE—*Sessions Clock Co. (Clocks, etc.)
*§Young Bros. (Brass Novelties, etc.)
GEORGETOWN—*†Gilbert & Bennett Mfg. Co. (Wire Goods, etc.)
GUILFORD—*†§Spencer's, I. S. Sons (Grey Iron Castings, etc.)
HAMDEN—*Henry, John T. Mfg. Co. (Garden Implements, etc.)
HARTFORD—*Billings & Spencer Co. (Machinists' Tools, etc.)
§Blake, Edwin J. (Brass, Phosphor & Manganese Bronze Castings, etc.)
*†Capewell Horse Nail Co. (Horse Nails,
†Capitol Foundry Co. etc.)
*Clark, E. R. (Air Motors, etc.)
*Clark, Edred W. (Rubber Mach'y)
*Colts Patent Firearms Mfg. Co.
*Cook, Asa S. Co. (Wood Screw Mach'y, etc.)
*Cooley & Trevor Mfg. Co. (Envelope
§Craig, Jno. M., 71 Arch Machy., etc.)
*Cushman Chuck Co. (Lathe & Drill Chucks, etc.), 189 Allyn
*Davis, I. B. & Son (Steam Heaters, Pumps, etc.)
*Evarts Machine Co. (Gas & Gasoline Engines, etc.)
*Gray & Prior Machine Co. (Universal Joints, etc.)
*HART MFG. CO (Electric Switches, etc.) (See adv. index, end of book)
*Hart & Hegeman Mfg. Co. (Electric Switches, etc.)
*Hartford Engine Works (Steam Engines, etc.)
*†Hartford Foundry Corporation (Grey Iron Castings, Catch Basins, etc)
*Hartford Knuckle Works (Universal Joints, etc.)
*Hartford Machine Screw Co. (Automatic Screw Machinery, etc.), 476 Capitol
*Henry & Wright Mfg. Co. (Machine Tools)

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*§Howard, Jas. L. & Co. (Brass Founders & Finishers, Plating, Polishing, Lacquered, etc.), 438 Asylum
*Jacobs Mfg. Co. (Drill Chucks, etc.)
*Johns-Pratt Co. (Electrical Goods, etc.)
†Laragy, P. (Gray Iron Castings)
*Law, F. A. Machine Co. (Marine, Stationary & Automobile Engines)
*Lee, H. K. (General Machine Work)
*Merrow Machine Co. (Sewing Machines,
*Mutual Machine Co., 25 Wells etc.)
*National Machine Co. (Machine Tools & Printing Presses)
*Organ Power Corporation (Organ Motors, etc.)
*Paradox Gas Engine Co. (Gas Engines, etc.)
*Phoenix Mfg. Co. (Centering Machines)
*Pickering, W. H. & Co. (Eng. & Machinists), 110 Commerce
*Pope Mfg. Co. (Bicycles, Motor Bicycles, Automobiles)
*Post & Lester Co. (Auto Supplies)
*§Pratt & Cady Co. (Brass & Grey Iron Castings, Valves, etc.)
*†§Pratt & Whitney Co. (Machine Tools & Small Tools, etc.)
*Quilt, A. D. (Machine Tools, etc.)
*Rhodes, L. E.
*Sigourney Tool Co. (Drill Presses, etc.)
*Smyth Mfg. Co. (Bookbinders' Machy.)
*Springfield Elevator & Pump Co. (Elevators, etc.)
†§Standard Foundry Co. (Aluminum & Bronze Castings)
*Sterling Blower & Pipe Mfg. Co. (Blowers, Fans, etc.), 60 Huyshope av
*Taylor Mfg. Co. (Lathe & Planer Tools)
†*Taylor & Fenn Co. (Machine Tools, Drills, etc.), 54 Arch
*Tucker, W. W. & C. F. (Oil Hole Covers & Cups, etc.), 302 Asylum
*Universal Machine Screw Co. (Automatic Screw Machines, etc.)
*Vanderbeek Tool Works (Machine Tools, etc.)
*†Veeder Mfg. Co. (Cyclometers, Counters & Die Castings)
*†§WHITLOCK COIL PIPE CO. (Pipe Benders, Brass & Sheet Metal Work). (See adv. index, end of book)
*Whitney Mfg. Co. (Machine Tools, etc.)
HIGGANUM—*†Cutaway Harrow Co. (Harrows, etc.)
*Scoville, D. & H. (Planters, Hoes, etc.)
HIGHLAND PARK—*Case, A. W. & Son
*Case Machine Co. (Propeller Wheels, etc.)
HOTCHKISSVILLE—*American Shear & Knife Co. (Pocket Cutlery, Shears, etc.)
IVORYTOWN—*Behrens & Bushnell (Machinists)
LAKEVILLE—*Holley Mfg. Co. (Cutlery, etc.)
LIME ROCK—*†Barnum-Richardson Co. (Car Wheels, Castings, etc.)
MANCHESTER—*Johnson Carlyle Machine Co. (Friction Clutches, etc.)
*Lydall, H. & Foulds (Machine Needels, etc.)
*Norton Elec. Instrument Co. (Elec. Instruments, etc.)
MARION—*Frost, L. D. (Est. of) (Bolts, etc.)
MERIDEN—*†Bradley & Hubbard Mfg. Co. (Gas Fixtures, Bronze Goods, etc.)
*Browne & Dowd Mfg. Co. (Can Openers,
*Dayton, Chas. L. etc.)
*Foster, Geo. A. (Ice Machines)
*§Foster, Merriam & Co. (Cabinet Hardware, Brass Fdrs., etc.)
*Kelsey Press Co. (Printing Presses, etc.)
*Manning, Bowman & Co. (Bottlers' Machinery, etc.)
*†Meriden Firearms Co. (Firearms, etc.)
*Meriden Machine Tool Co. (Lathes & Screw Machines)
*§Miller, Edw. & Co. (Brass Fdrs., Hardware, Lamps, etc.)
*Parker Bros. (Guns, etc.)
*†Parker, Chas. Co. (Vises, Coffee Mills,
*Parker Clock Co. etc.)
*†§Schenck, M. B. Co. (Casters & Iron & Brass Fdrs.)
*§Wallace, F. J. (Saddlery Hdw., etc.)
*Wusterbarth Bros.
MIANUS—*Mianus Motor Works
MIDDLEFIELD—*†Lyman Gun Sight Corporation (Gun Sights, etc.)
MIDDLETOWN—*†§Chapman, W. H. Co. (Saddlery Hdw.)
*†Douglas, W. & B. (Pumps, Garden Engines, etc.)
*†Hubbard Motor Co. (Gasoline Motors)
*§Kirby Mfg. Co. (Bells, Toys, etc.)
*New England Enameling Co.
*Noiseless Typewriter Co. (Typewriters)
*†§Wilcox, Crittenden & Co. (Marine & Awning Hdw. & Grey & Malleable Iron Castings)
MILFORD—*§Rostrand Mfg. Corp'n (Racks, Brass Goods, etc.)
MILLDALE—*†Clark Bros. Bolt Co. (Bolts, Nuts, etc.)
*Ellis Mfg. Co. (Machinists & Small Hdw.)
MOODUS—*Brockway & Meckenstrum Machine Co. (Cotton Mach'y)
MOUNT CARMEL—*†§Woodruff, Walter W. & Sons Co. (Brass Fdrs., etc.)
MYSTIC—*†Lathrop, J. W. Co. (Gas Motors)
*†Standard Machinery Co. (Book Binders' Machy.)
NAUGATUCK—*†Naugatuck Malleable Iron Co.
*Russell, J. M. Mfg. Co. (Chains, Brass & Bronze Castings, etc.)
NEW BRITAIN—*†American Hardware Corporation Hardware Mfrs.)
*†Beaton & Bradley Mfg. Co. (Ceiling Plates, Plumbers' Supplies, etc.)
*Brady, Thos. H. (Electric Ry. Supplies, etc.)
*†Corbin Cabinet Lock Co. (Locks, etc.)
*†Corbin Screw Corporation (Screws, Bolts, etc.)
*†§Corbin, P. & F. (Builders' Hdw., etc.)
§Flannery, Patrick J.
*HART & COOLEY CO. (Hot Air Registers, etc.) (See adv. index, end of book)
*†§Humason & Beckley Mfg. Co. (Brass & Iron Fdrs. & Hardware)
*Judd, R. D. (Builders' & Saddlery Hdw.)
§Kinne, W. A. (Brass Fdry.)
§†*Landers, Frary & Clark (Brass & Iron Fdrs., Hardware, Cutlery, etc.)
*†Malleable Iron Works (Malleable & Grey Iron Castings)
*National Spring Bed Co. (Spring Beds)
*†§Neumann & Alling (Patters & Models & Iron & Brass Castings, etc.)
*New Britain Machine Co. (Engines & Wood Working Machinery)
*†§North & Judd Mfg. Co. (Saddlery, Hardware Fdrs., etc.)
*North & Pfeiffer Mfg. Co. (Motors, etc.)
*†§Russell & Erwin Mfg. Co. (Builders' Hdw., etc.)
*Skinner Chuck Co. (Chucks, etc.)
*Stanley Rule & Level Co. (Planes, Try Squares, Gauges, etc.)
*STANLEY WORKS (Grey Iron & Air Furnace Castings). (See adv. index, end of book)
*†Taplin Mfg. Co. (Hdw. Specialties, etc.)
*Traut & Hine Mfg. Co. (Patent Novelties)
*†Union Mfg. Co. (Drill & Lathe Chucks, Light Grey Iron Castings, etc.)
*†Vulcan Iron Works (Malleable & Grey Iron Castings, etc.)
NEW HAVEN—*Acme Cash Railway Co. (Cash Carriers)
*Atlas Mfg. Co. (Special Hardware)
*Barnes Tool Co. (Pipe Cutters, Hand Sawing Machines, Wrenches & Tools, etc.)
†Barnum, S. H. (Iron Fdrs., Grey Iron Castings, etc.), 20 Whitney av
*Belden Machine Co. (Dies & Models, Tools & Hardware Specialties, etc.)
*Bigelow Co. (Special Heavy Machinery, etc.)
*Bishop, Walter S. (Electro Plating Machinery, etc.)
*Brooks, Chas. J. (Wire Covering & Special Mach'y), 22 Maple
*Brown, R. H. & Co. (Chucks, Machy. & Hdw. Specialties)
*Burgess Machine Co. (Special Mach'y., Dies, Box Nailing & Trimming Mach'y, etc.)
*Colburn, Albert L. (Drilling & Grinding Mach'y, etc.)
*Cowles, C. & Co. (Carriage & Auto Hdw., etc.)
*†Dreisbach, C. A., Fdry. & Machine Co. (Iron Castings, etc.), 19 Poplar
*†Eastern Machinery Co. (Brick Machy., Freight Elevators, Friction Clutches, etc.)
§Ely, C. Upham, 573 Dixwell av
*English & Merrick Co. (Carriage & Auto Hdw., etc.)
§English & Mersick Lamp & Fdry. Co. (Coach Lamps & Trimmings, etc.)
*†§Fitch, W. & E. T. Co. (Sash, Locks, Malleable Iron Castings & Carriage Hdw., etc.)
*†Fosket & Bishop Co. (Steam Traps & Steam Specialties, etc.)
*Foster Motor Co. (Yacht Propellers, etc.)
*†Fuller Mfg. Co. (Printers & Bookbinders' Machy., etc.)
*Geometric Tool Co. (Special Machy., Screw Cutting, Die Heads, Hollow Milling Tools, etc.)
§Graham, Jas. & Co. (Brass Fdrs.), 299 Wooster
*Greiner, Chas. Co. (Riveting Machines, etc.)
*Greist Mfg. Co. (Sewing Machine Attachments, etc.), Westville
*Griswold, Geo. M., Machine Co. (Paper Box Machy., Dies, Tools, etc.)
*Hemming Bros. Co. (Polishing & Grinding Machy., 190 East
†§Hendryx, Andrew B. Co. (Brass & Bronze Fdrs.), 80 Audubon
*Henn, A. S. & Co. (Punches, Dies, etc.),
*Herrick & Cowell (Paper Box, Hardware, Electrotype & Special Machy.), 39 Artizan
*Heggson & Pettis Mfg. Co. (Chucks, Dies, Tools & Special Machy., etc.)
*†§Ives, Hobart B. Co. (Brass & Bronze Fdrs. & Bldrs.' Hdw. Specialties)
*Kilborn & Bishop Co.
*†McLagon Foundry Co. (Machine Molded Furnace & Machy. Castings, Pulleys, etc.)
§Magnus Metal Co. (Babbitt & Anti-Friction Metals, etc.), 248 Cedar
*†Mallory-Wheeler Co. (Padlocks Mfrs.)
*†Marlin Fire Arms Co. (Rifles, Guns, etc.)
*Miner & Peck Mfg. Co. (Drop Presses & Drop Hammers, etc.), 419 Chapel
*†NEW BRITAIN MACHINE CO. (Engines, Woodworking Machinery, etc.) (See adv. index, end of book)
*New Haven Clock Co. (Clock Movements, etc.), 133 Hamilton
*New Haven Machine Screw Co. (Screws, etc.)
*†New Haven Mfg. Co. (Machine Tools, etc.), 50 Whitney av
*†New Haven Mfg. Co. (Machine Tools, etc.)
*Norman & Gruener Co. (Printers' Machy., etc.)
*†§North, O. B. & Co. (Saddlery & Carriage Hardware & Malleable Iron Fdrs.)
*Ochsner, A. & Sons Co. (Carriage Locks & Specialties), 1060 State
*†§Peck Bros. & Co. (Brass Fdrs. & Plumbers' Brass Goods & Supplies)
*Peck, John L. & Co.
*Pfleghar, F. P., Hardware Specialty Co. (Light Hdw., etc.)
*†Recording Fare Register Co. (Ry. Specialties, etc.)
*†§Reynolds, Jas. Mfg. Co. (Sand Molding Machines & Brass Fdrs.), 99 Mill River
*Reynolds & Co. (Screws, Bolts & Nuts)
*Rowland Machine Co. (Steam Engines)
*†§Sargent & Co. (Bldrs' Hdw.)
*Schollhorn, Wm. Co. (Pliers, Nippers, Punches & Hdw. Specialties), Wooster & Wallace
*Scranton & Co. (Machy. & Hardware)
*SHUSTER, F. B. CO. (Machine Tools, etc.), 133 Mill River. (See adv. index, end of book)
*Sigel, Edwd, Hooker Bldg.
*Smith, Andrew H. & Co. (Needles, etc.)
*Smith, W. J. & Co. (Reamers, Special Mach'y, Tools, etc.)
*Snow & Petrelli Mfg. Co. (Yacht Cannon, Marine Reversing Gears, etc.)
*Thompson, Henry G. & Son Co. (Tool Holders, Hack Saws, etc.), 6 Elm
*Twiss, Nelson W. (Steam Engines, etc.)
*†Warner, G. F. Mfg. Co. (Grey Iron Castings, etc.), James & East
*Winchester Repeating Arms Co. (Rifles, Guns, etc.), 195 Winchester av
*†Yale Safe & Iron Co. (Iron Fdrs. & Bldrs.' Iron Work), West Haven
NEW LONDON—*Babcock Printing Press Mfg. Co. (Printing Presses, etc.)
*†Brown Cotton Gin Co. (Cotton Gins, etc.)
*†Hopson & Chapin Mfg. Co. (Heating Apparatus, Grey Iron Castings, etc.)
*New London Vise Wks. (Vises, etc.)
*†§New London Marine Iron Works (Fdrs., Machinists, Marine Railway)
*New London Motor Co. (Motors, etc.)
*Thames Towboat Co.
*†Whiton, D. E., Machine Co. (Machine Tools, etc. (Lathes & Drill Chucks)
NEW MILFORD—*Arcade Machine Works
NORTH WINDHAM—*Hartson, L. M., Co.
NORWALK—*†Arnold Co. (Textile Machy.)
*†Meeker's Union Foundry
*§Norwalk Brass Co. (Brass, Aluminum & Bronze Castings, Rough & Finished)
*†Postal Typewriter Co. (Typewriters)

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NORWICH—*Barber, M. A. (Cork Cutting)
*§Bard Union Co. (Unions, etc.)
*Chelsea File Works (Files)
*Crescent Fire Arms Co. (Shot Guns, etc.)
*Davenport, W. H. Fire Arms Co. (Fire Arms)
*Gould, Augustus, Industrial Bldg.
*Hopkins & Allen Arms Co. (Fire Arms)
*†McCrum-Howell Co. (Radiators & Heating Apparatus, etc.), Main Office, New
§Pequot Brass Foundry Co. York
*Sterling Machine Co.
*†Tobin Arms Mfg. Co. (Fire Arms, etc.)
*§Tracy, C. Oscar (Brass Fdr.)
*Uncas Specialty Co. (Auto Parts, etc.)
*†Vaughn Foundry Co. (Grey Iron Castings)
*Wasley, F. R. (Est. of) (Envelope Mchy.)
OAKVILLE — *Baird Machine Co. (Safety, Toilet & Badge Pin Mach'y)
*Oakville Co. (Wire & Metal)
*Smith, Seymour & Son (Hardware)
PLAINVILLE—§Carter, E. T. (Brass Foundry)
*§Clark, A. N. & Son (Bicycle Sundries, Brass Castings to Order)
*Clark Caster Co. (Casters, etc.)
§Elm City Brass & Rivet Co. (Brass Fire Place Furnishings, Brass Castings, etc.)
*Hills, Edwin (Hardware, Shovels, Axes, etc.)
*Lamb, Benj.
*§Osborne & Stephenson Mfg. Co. (Brass Goods, etc.)
*Trumbull Electric Mfg. Co. (Electric Specialties)
PLANTSVILLE—*Atwater Mfg. Co. (Carriage Hdw., etc.)
*Thompson Drop Forging Co.
PORTLAND—*Anderson Coupling Co.
*†§Pickering Governor Co. (Governors)
PUTNAM—*†Putnam Fdry. & Mach. Corp. Machine Tools)
ROCK FALL—*Smith, O. A. (Fire Arms, etc.)
ROCKVILLE—*†Murless, H. B.
ROCKY HILL—*†Champion Mfg. Co. (Grey Iron Castings, etc.)
ROXBURY—*†Bronson, W. & H.
SAUGATUCK—*†Computing Scale Co. (Scales) etc.)
SEYMOUR—*†Church, S. B. (Windmills, etc.)
*†Humphreysville Mfg. Co. (Boring Instruments & Edge Tools)
†Klatt, E. A. (Iron Fdry.)
*Matthews, H. A. Mfg. Co. (Bicycle Parts & Stove Trimmings)
*Smith, James M. (Lathes, etc.)
*Swan, Jas. Co. (Augers, Bits, Drawing
SHELTON—(See Derby) Knives, etc.)
SOUTH COVENTRY—*Kingsbury & Davis Machine Co. (Set Machines, etc.)
SOUTHINGTON—*†§Peck, Stow & Wilcox Co. (Hdwe., Tools, etc.)
SOUTH NORWALK—*Argand Boiler Co. (Heating Apparatus)
§Artistic Bronze Co. (Bronze Specialties)
*Le Count, Wm. G. (Lathe Dogs, etc.)
*†Lockwood Mfg. Co. (Hardware, Locks,
*Miller, Julius W. (Machinist) etc.)
*†NORWALK IRON WORKS CO. (Air Compressors, etc.). (See adv. index end of book)
*†Norwalk Lock Co. (Hardware, etc.)
*Robertson, Edwin B.
*Specialty Mfg. Co.
*†§Wheeler Bros.
SOUTHPORT—*Jeliff, C. O. Mfg. Corp'n (Harrows, etc.)
SOUTH WINDHAM—*†§Smith & Winchester Mfg. Co. (Paper Bag Machinery)
STAMFORD—*Blickensderfer Mfg. Co. (Typewriters, etc.)
§Brown, Christian (Brass Foundry)
†Davenport-Treacy Co. (Piano Plates)
*Muench, Geo.
*Oven Equipment & Mfg. Co.
†Stamford Foundry Co. (Stoves, etc.)
*†Stamford Gas Stove Co. (Stoves, Heaters, etc.)
*†§Stamford Iron & Brass Foundry (Building & Mill Construction, Castings, etc.)
*Stamford Motor Co. (Gasoline Engines)
*†§Yale & Towne Mfg. Co. (See New York City)
STONINGTON—*†Atwood-Morrison Co. (Silk & Spool Cotton Machy.)
†Miller's A. B. Sons.
STONY CREEK—*Beach, O. B. (Gas Engines)
TERRYVILLE—*†§Eagle Lock Co. (Locks, etc.)
†Terry, Andrew Co. (Malleable Iron Fdrs.)
THAMESVILLE—(See Norwich)
THOMASTON — *Thomas, Seth Clock Co. (Clocks, etc.)
THOMPSONVILLE—*Bushnell, G. H. Press Co. (Oil Mill Machinery & Presses, etc.)
*§Westfield Plate Co. (Coffin Trimmings, etc.)
TOLLAND—*Clough, R. M. (Machine Tools)
TORRINGTON—*Excelsior Needle Co. (Wire Rod & Tube Pointing Machy., etc.)
*†Hendey Machine Co. (Machine Tools)
*†Hotchkiss Foundry Co.
*Perkins, E. A. Electric Co.
*Progressive Mfg. Co. (Screws, Gas Engines, etc.)
*Torrington Mfg. Co. (Brass & Copper Rolling Mill Machy., etc.)
*†TURNER & SEYMOUR MFG. CO. (Hardware Mfrs., Castings, etc.) (See adv. index, end of book)
UNIONVILLE—*Mosher & Hogarty (Harness Snaps & Saddlery Hardware)
*Union Nut Bolt Co. (Bolts, Nuts, etc.)
*Upson Nut Co.
WALLINGFORD—*Ives, W. A. Mfg. Co. (Bits Augers, etc.)
*†Judd, H. L. Co. (Small Hardware)
WATERBURY—§American Brass Co.
*§American Pin Co. (Brass & Bronze Castings, Pins, etc.)
*§American Ring Co. (Rings, etc.)
*Atlas Machine Co. (Screw Presses, etc.)
*Benedict & Burnham Mfg. Co. (Brass Mfrs.)
*Blake & Johnson Co. (Power & Foot Presses, Rivet, Bicycle & Wire Forming Machinery, etc.)
*§BRISTOL CO. (Recording Instruments, etc.) (See adv. index, end of book)
§Chase Rolling Mill Co. (Brass Mfrs.)
§Connecticut Mfg. Co. (Brass Castings, etc.)
*Draher, Jno. (Power Presses, Rivet, Screw & Button Mach'y Dies, etc.)
*Henderson Bros. (Machinists & Tumbling Barrels)
*Ludington Cigarette Machine Co. (Cigarette & Tobacco Machinery)
*†§Manufacturers Foundry Co. (Grey Iron & Brass Castings, Water Jacketed Cylinders, etc.)
*Manville Bros. Co. (Power Presses, Watch Machy & Special Automatic Machy)
*Manville, E. J. Machine Co. (Power Presses, Wire Working, Rivet or Heading Machinery)
*§Matthews & Willard Mfg. Co. (See Scoville Mfg. Co.)
*Noera Mfg. Co. (H'dware Specialties)
§Novelty Mfg. Co. (Brass Goods)
§Platt Bros. & Co. (Buttons, etc.)
*Plume & Atwood Mfg. Co. (Brass Goods, etc.)
*Risdon Tool & Machine Co. (Dies, Light Machy. Tools, etc.)
*Robinson Tool Works (Die Filing Machines, etc.)
*†§Scoville Mfg. Co. (Grey Iron & Semi-Steel Castings, etc.)
*§Smith & Griggs Mfg. Co. (Brass & Metal Goods)
*§Steele & Johnson Mfg. Co. (Brass Castings, etc.)
§Waterbury Brass Co.
§Waterbury Brass Goods Corp'n (Brass Specialties)
*†Waterbury Castings Co.
*§Waterbury Clock Co. (Clock Mfrs.)
*†Waterbury Farrel Foundry & Machine Co. (Drop, Power, Hydraulic & Foot Presses, Brass & Copper Rolling Mill Machy, etc.)
†Waterbury Foundry Co. (Grey Iron Castings, Grate Bars, Floor Plates, etc.)
*†Waterbury Mfg. Co. (Brass Goods)
*Waterbury Tool Co. (Small Tools)
*Waterbury Wire Die Co. (Dies, etc.)
WATERVILLE — *§American Pin Co. (See Waterbury)
*§Berbecker & Rowland Mfg. Co. (Brass Specialties, etc.)
*†Rowbottom Machine Co. (Special Automatic Machy of every description. Presses, Grinders, Lathes, Machines, etc.)
WEST HAVEN—*Yale Safe & Iron Co.
WEST MYSTIC—*Holmes Motor Co. (Gasoline Engines)
WESTPORT—*Bradley's, G. W. Sons (Axes & Edge Tools)
WEST STAFFORD—*Bradway, C. P.
WILLIMANTIC—*Asher Mangle Co. (Mangles, etc.)
*†Vanderman Mfg. Co. (Grey Iron Castings, etc.)
*Willimantic Machine Co. (Silk & Thread Mach'y, etc.)
WINDSOR LOCKS—*Clark, Geo. P. Co. (Hand Trucks, Casters, etc.)
*Eddy, A. H.
*†Horton, E. & Son Co. (Lathe Chucks, etc.)
*Windsor Locks Machine Co. (Paper & Pulp Mill Machy.)
WINSTED—*Carter & Hakes Machine Co. (Machine Tools)
*Gilbert, Wm. L. Clock Co. (Clocks, etc.)
*Goodwin & Kintz Co.
*†§Moore, Franklin Co. (Hoists, Cranes, Brass & Light Grey Iron Castings)
*Richards, T. C. Hardware Co. (Hardware, etc.)
*Winsted Edge Tool Works (Edge Tools,
*Winsted Mfg. Co. (Scythes) etc.)
YALESVILLE—†Parker, Charles Co.
*Yale, C. I., Mfg. Co. (Spoons & Edge Tools)

## DELAWARE.

DOVER—*†§Jones, E. L. & Co. (Machy.)
EDGE MOOR—*Edge Moor Iron Co. (Boilers,
HOCKESSIN—*Williamson, Thomas etc.)
LAUREL—*Oldfield, Jas. W. (Machinist)
MILFORD—*Matthews, L. J.
NEWARK—*American Machine Co. (Hot Air Pumping Engines, etc.)
NEW CASTLE—*Allan, Edgar American Manganese Steel Co. (See New York)
*†Baldt Steel Co. (Steel Castings, etc.)
†Brylgon Steel Castings Co. (Steel Castings, Crankshafts, etc.)
†Deemer Steel Casting Co. (Steel Castings)
WILMINGTON — *†American Car & Foundry Co. (See St. Louis, Mo.)
*Baker, G. W. Machine Co. (Leather Working Machinery)
*†Betts Machine Co. (Machine Tools, etc.)
Christiana Machine Co. (Jobbing)
†Davis, L. D. (Iron Railings, etc.)
†Delaware Foundry Co. (Grey Iron Castings, etc.)
*Delaware Machine Works (Gasoline Engines)
*†§Delaware Marine Supply Mfg. Co.
*†Diamond State Steel Co.
*Green Elevator Co. (Elevators, etc.)
*†Harlan & Hollingsworth Corp'n (Steel Ships, Marine Engines, Car Buildings, etc.)
*Hastings, W. C. (Repairs, etc.)
*Henderer's, A. L. Sons
*Hickman, Franklin B.
*†HILLES & JONES CO. (Machine Tools, etc.). (See adv. index, end of book)
*Jones & Schumacher (Gasoline Engines)
*Layman, A. C. Machine Co. (Leather Working Machinery)
*†Lobdell Car Wheel Co. (Car Wheels & Chilled Rolls, etc.)
*Modern Machinery Co. (Special Machinery, Repairs, etc.)
*National Machine Co. (Fibre & Special Machinery)
*†§Poole, J. Morton & Co. (Paper Mill Machy. & Castings, etc.)
*†§Pusey & Jones Co. (Iron & Brass Fdrs., Engines, Paper Mill Machy., Steel Steamboats, etc.)
*†§Remington Machine Co. (Brass Fdrs. & Ice Machines)
*SHAW, BENJ. F. CO. (Iron and Steel Plate Work & High Pressure Piping) (See adv. index, end of book)
*Slocomb, F. F. & Co. (Leather Working Machy & Pneumatic Tools, etc.)
*§Speakman Supply & Pipe Co. (Brass Fdrs. & Plumbers Supplies)
*Trump Bros. Machine Co. (Textile Machinery, etc.)
*Walker & Elliott (Phosphate Mill & Machinists)
*†Wilmington Brass Co. (Brass Founders & Finishers)
*†Wilmington Malleable Iron Co.

## DISTRICT OF COLUMBIA.

TWINING—†Columbian Iron Works
WASHINGTON—*Carl, Frederick (Insts. & Model Maker), 631 G, N. W.
*Catlin, E. H. & Co., 309 13th, N W
*†Cragg, H. C. Mfg. Co., 228 K, S W
*Doremus Machine Co. (Machinists), 300 13th, N W
†§Douglas, W. H., 1210 E., N. W.
*Farrow Arms Co., 210 2d, N W
§Firth-Sterling Steel Co. (Ordnance Works, Giesborg Point)
*Forsberg, Gustave W. (Machinist), 526 13th, N W
†Gichner, Fred S. (Iron Fdry), 1214 D, N W

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*†Gray, E. N. & Co. (Iron Fdrs. & Machinists), 316 Main av, S W
*Hurley, Jno. E. (Machinist), 1219 Ohio av, N W
†Jorss, A. Fred (Iron Fdry & Builders' Iron Work), 315 13th, N W
*§National Electric Supply Co., 1330 N. Y. av., N. W.
*†Schneider's, C. A. Sons (Fdrs. & Machinists), 212 12th, N W
§†Somerville, Thos., Co. (Plumbers' Supplies, etc.), 316 13th, N. W.
*†Springman, J. T. Sons, 904 7th, S W
*†White, Chas. & Co., 418 O, S W
*†White, Fred J., 462 Main av., S W

## FLORIDA.

APOPKA—†Florida Iron & Wood Works
ARCHER—*†Maddox Foundry & Machine Works
EUSTIS—*Miller, W. H.
GAINESVILLE—*†Gainesville Foundry & Machine Works
JACKSONVILLE—*†Florida Machine Works.
†Jacksonville Iron Works
*†Merrill-Stevens Co.
*†Murphy, Timothy, Iron Works
LAKE CITY—*Johnson, Lott W.
LIVE OAK—*†Robbins & McGehee.
MIAMI—*†§Lyne, C. H.
OCALA—*Ocala Gas Engine Works
*†Ocala Iron Works (Inc.)
ORLANDO—*†South Florida Fdry. & Mach.
PALATKA—*†Hanley, R. H. Works
*†§Stanton Foundry & Machine Co.
PENSACOLA—*†§Gulf Machine Co.
*Pensacola Iron Works & Supply Co.
ST. PETERSBURG—*Ramm Machine & Boiler Repair Works
TALLAHASSEE—*†Tallahassee Iron Works
TAMPA—*Gulf Iron Works
*†Tampa Foundry & Machine Co.
*†Tampa Steam Ways Co. (Ship Builders)
WEST PALM BEACH—*Fowler Bros.

## GEORGIA.

ALBANY—*Southern Machine Works & Supply Co.
ATHENS—*†Athens Foundry & Machine
*Umbach, F. G. (Harrows, etc.) Works
ATLANTA—*†Atlanta Agricultural Works, 1200 Marietta
*†Atlanta Car Wheel & Mfg. Co. (Car Wheels, etc.). Equitable Bldg.
*†Atlanta Machine Works (Marble & Gold Mining Machy., Engines Castings, etc.)
*†Atlanta Stove Works (Stoves), Irwin & Krog
*†§Atlanta Utility Works (Oil Mill Machy., etc.)
*†Continental Gin Co. (See Birmingham, Ala.)
†Crown Mfg. Co. (Iron Beds, etc.)
*†Decatur Car Wheel Co. of Ga. (Car Wheels)
*†General Pipe & Foundry Co.
*†§Georgia Car & Locomotive Co.
*†§Hancock-Holmes Fdry. & Machine Works (Brass & Grey Iron Castings, Machinery, etc.)
*Houchin Machine Co. (Tools)
†Kehoe Iron Works (Grey Iron Castings)
*Pearl Laundry Machinery Co.
*†§Pratt Engineering & Machine Co. (Chemical & Fertilizer Machinery, etc.)
*Riddell Bros.
*Schroeter, J. H. & Bro.
*†§Southern Iron & Equipment Co. (Brass & Iron Castings, Cars, Locomotives, etc.)
*Southern Laundry Machinery Co.
*†§Spalding Foundry Co.
*†Van Winkle, E. Gin & Machine Works (Cotton Seed Oil, etc.)
*†Vulcan Fdry. & Iron Works, 515 Mahietta
*†§Withers Foundry & Machine Works (Iron & Brass Fdrs.), Empire bldg
AUGUSTA—*†Georgia Iron Works (Saw Mill Machinery, etc.)
*†Lombard Iron Works & Supply Co. (Engines & Saw Mill Machy., etc.)
BAINBRIDGE—*†§Sutherland, D. T.
BREMEN—*†§Bremen Machine Works
BRUNSWICK—*†Bay Iron Works
*†Parker-Hensel Engineering Co.
BUFORD—*Lowe, T. F.
CARTERSVILLE—*†Withers Foundry & Machine Works
CEDARTOWN—*†§Alabama & Georgia Iron Co.
COLUMBUS—*†Columbus Iron Works Co. (Ice & Refrigerating Machy., etc.)
*†Golden Foundry & Machine Co. (Power Transmitting, etc.)
*†Lummus Cotton Gin Co. (Cotton Gins, etc.)
*†Pekor Iron Works (Inc.)
*†Southern Plow Co. (Cultivators, Plows, etc.)
†§Standard School Desk Mfg. Co.
CORDELE—*†§Tomlin-Harris Machine Co. (Iron & Brass Castings, Presses, etc.)
COVINGTON—*Turner, W. G.
DALTON—*†Dalton Fdry. & Machine Works
*Finley & Son
*Manly Jail Works
*Mascot Stove Mfg. Co. (Stoves, etc.)
*†Nancy Hanks Hay Press & Foundry Co. (Hay Presses, Pea Threshers, etc.)
DEMOREST—*†Demorest Foundry & Machine
DICKEY—*Parkins Machine Works
DOUGLAS—*§Douglas Foundry & Machine Works
EAST POINT—*†Atlanta Utility Works (Machinery, etc.)
*Southern Saw Works
FITZGERALD—*†§Atlanta, Birmingham & Atlantic Ry. Co.
*Burkhart, H. A.
*†§Fitzgerald Iron Works
FORT VALLEY—*Georgia Agricultural Works (Cotton Gin Machinery)
GAINESVILLE—*†Gainesville Iron Works
GRIFFIN—†Gresham Mfg. Co.
LUMBER CITY—*Day, John L., Son
MACON—*†Findlay's Brass Works Co.
*†Mallary & Taylor Iron Works
*†Massey Gin & Machine Works (Cotton Gins, etc.)
*†Schofield's, J. S. Sons Co. (Sugar Machinery, etc.)
MARIETTA—*†§Glover Machine Works (Locomotives, Hoisting Engines, etc.)
MILLEN—§Millen & Southwestern Ry. Brass Fdry.
MONTICELLO—*Benton Mfg. Co. (Agricultural Implements)
MORELAND—*Camp, E. N. & Son (Inc.)
NEWNAN—*†Cole, R. D. Mfg. Co. (Engines, etc.)
NORCROSS—*Buchanan Plow & Implement Co.
OCILLA—*Sikes Mfg. Co. (Hay Presses, etc.)
QUITMAN—*†Quitman Foundry & Machine Co.
ROME—*†Bowie Stove Co. (Stoves)
*†Davis Fdry. & Machine Works
*†Georgia Fdry. & Machine Works (Shingles & Saw Mill, etc.)
*†Hanks Foundry Co.
*†§Rome Machine & Foundry Co.
*†Rome Scales Co. (Scales, etc.)
†Rome Soil Pipe Co. (Cast Iron Soil Pipe, etc.)
*†Southern Co-operative Fdry. Co. (Stoves)
*†Towers & Sullivan Mfg. Co. (Cultivators, Harrows, Plows, etc.)
SANDERSVILLE—*†Lang's Variety Works.
SAVANNAH—*†Decatur Car Wheel & Mfg. Co. (See Birmingham, Ala.)
*†§Kehoe Iron Works (Iron & Brass Fdrs. & Saw & Prosphate Mill Machy., etc.)
*Mingledorff & Co.
*†§Rourke, Jno. & Sons (Iron & Brass Fdrs., Machinists, Heavy Forgings, etc.)
*†§Savannah Locomotive Works & Supply Co. (Locomotives Rebuilt, etc.)
*†Seaboard Pipe Foundry Co.
TALLAPOOSA—*†Greene, M. A.
THOMASVILLE—*†Thomasville Iron Works.
TIFTON—*†Tifton Foundry & Machine Co.
VALDOSTA—*†§Valdosta Foundry & Machine Co.
WAYCROSS—*†Atlantic Coast Line Ry. Fdry.
*†§South Atlantic Car Mfg. Co.
WAYNESBORO—*Mobley Bros. (Machinery)
WEST POINT—*†West Point Iron Works
WINDER—*†§ Woodruff Machinery Mfg. Co. (Agr'l Implts.)

## HAWAII.

HILO—*†§Hilo R. R. Co.
HONOLULU—*†§Catton, Neill & Co.
*†Honolulu Iron Works Co.

## IDAHO.

BOISE—*†§Baxter, Jas., Foundry & Mach. Co.
*†Briggs, W. T.
MOSCOW—*Michaelson Mfg. Co.
NAMPA—*†Nampa Iron Works.
NEZPERCE—*Richardson, D. B.
POCATELLO—*†Union Pacific R. R. Shops
WALLACE—*†§Coeur d'Alene Iron Works.
WEISER—*†§Waters, L. E.

## ILLINOIS.

ABINGDON—*†American Sanitary Mfg. Co. (Plumbers Brass Goods)
ALLENVILLE—*†Ideal Car Loader Co.
ALTON—*Beall Bros. (Inc.) (Miners' Tools, Shovels & Specialties)
*†Duncan Fdry. & Machine Works (Box Car Loaders & Car Wheels, etc.)
*Hapgood Plow Co. (Agl. Implts., Plows, Drills, Planters, etc.)
*Hayden, Geo. D. Machine Co.
*Illinois Glass Co. (Machine Shop for their own use)
*Illinois Stoker Co. (Coal & Ash Handling Machinery)
*Sparks, C. F. Machine Co. (Gasoline Engines)
ANNA—*Hargrave, Allen.
ARLINGTON HEIGHTS—*†Peter & Volz.
ASSUMPTION—*Consolidated Electric & Mfg. Co. (Electric Specialties)
*McClure, J. W.
AURORA—*§Acorn Brass Mfg. Co. (General Machinists & Brass Fdrs. & Finishers)
*†American Woodworking Machinery Co. (See Rochester, N. Y.)
*Aurora Automatic Machinery Co. (Pneumatic Tools, Motor Cycles, etc.)
*†Aurora Foundry Co. (Grey Iron & Machine Pulley Castings, etc.)
*†§Aurora Metal Co. (Brass & Bronze Castings & Metallic Piston Packing)
*†§C. B. & Q. R. R. Co. (Iron & Brass Shops)
*†Fox River Iron Co.
*Hinckley, C. C.
*†Love Bros. (Inc.)
§Peters, Henry Brass Foundry Co. (Brass Castings, etc.)
*Phillips, T. L. (Feed Mills, Hot Water Heaters, etc.)
*†Rathbone, Sard & Co. (Stoves, etc.)
*†Richards-Wilcox Mfg. Co. (Door Hangers, Hdwe. Specialties, etc.)
*RICHARDS STANDARD MFG. Co. (Door Hangers, Hardware Specialties, etc.), 3d & Q. (See adv. index & branch offices, end of book)
*†Stephens-Adamson Mfg. Co. (Conveying & Power Transmitting Machinery, etc.)
*Udstad, S. (Machinist)
*Vindex Electric Co. (Transformers, etc.)
*Western Wheeled Scraper Co. (Street Sweeping Machines & Road Scrapers, etc.)
AVA—*Spiner, E. F.
*Underwood, Wm. J.
BATAVIA—*†Appleton Mfg. Co. (Agl. Implts.)
*Batavia Engineering Works (Inc.) (Conveying, Elevating & Screening Mchy.)
*†§Challenge Co. (Gas & Gasoline Engines, Windmills, etc.)
*Newton Wagon Co. (Heavy Farm Wagons, etc.)
*†Shumway, C. W. & Sons (Machinery Castings, etc.)
*†Sperry, D. R. & Co. (Hollow Ware
§Stuttle Brass Mfg. Co. Founders)
*†U. S. Wind Engine & Pump Co. (Wind-Mills, Pumps, Feed Mills & Corn Shellers, etc.)
BELLEVILLE—*†Baker Stove Works (Stoves, †Belleville Foundry Co. etc.)
*Belleville Implement & Motor Co. (Agrl. Implements, Motors, etc.)
*†Belleville Stove & Range Co. (Stoves, etc.)
*†Born, J. C. & Bro. (Grinding & Polishing Mchy., Countershafts, etc.)
†Crown Foundry Co. (Iron Founders)
*†Eagle Foundry Co. (Stoves)
*†Enterprise Foundry Co. (Iron Fdrs.)
*†Excelsior Foundry Co.
*Gundlach Machine Co. (Agrl. Implts.)
*†§Harrison Machine Works (Threshers & Engines)
*†§Herzler-Henninger Machine Works (Coal
*Modern Machine Co. Mining Mach'y)
*†Neverbreak Range Co. (Stoves & Ranges)
†Oakland Foundry Co.
*†Orbon Stove & Range Co. (Stoves, Ranges, etc.)
*†Quality Stove & Range Co.
*†St. Clair Foundry (Iron Fdrs.)
BELVIDERE—*†National Sewing Machine Co. (Sewing Machines & Screw Machines)
BENTON—*Gray, J. W.
BLOOMINGTON—*†American Foundry & Furnace Co. (Hot Air Furnaces & Castings, etc.)
*†§Bloomington Iron & Brass Foundry
*†Chicago & Alton R. R. (Iron Fdry.)
*Constant, B. S. Co. (Elevator & Grain Machinery, etc.)
*†Co-operative Stove Co. (Stoves)
*Keiser, Van Leer Co.
*†Ma Girl, P. H. (Hot Air Furnaces, etc.)
BLUE ISLAND—*Bronson, E. & Co.
BRADLEY—*†Bradley, David Mfg. Co. (Plows, Cultivators, Planters, etc.)
*†Burrell Mfg. Co. (Flour Mill Machy.)
*†Turk. Jos. Mfg. Co. (Iron Beds, etc.)
BURNHAM—Western Steel Car & Foundry Co. (See Chicago, Ill.)
BUSHNELL—*Bushnell Pump Co. (Pumps, etc.)
*Norcross, C. S. & Son (Garden Plows, etc)

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CAIRO—*†McCarthy & Malinski
*†§Reed, J. B. (Machine Tools & Castings, etc.)
*†§Rennie, Jno. T.
CAMPBELL HILL—*Shaw, Hans (Machinist & Plows)
CANTON—*†Parlin & Orendorff Co. (Plows, Cultivators, Planters, Listers, etc.)
*†Savill & Chandler Co. (Stoves, etc.)
CARBON HILL—*†Wilmington Foundry & Machine Co. (Fdrs. & Machinists). (See Chicago)
CARLINVILLE—*Brown, L. H. Mfg. Co. (Ratchet, Drill & Wrench)
CARLOCK—*Shad, S. H.
CARMI—*Graham Mfg. Co. (Machinists)
CARPENTERSVILLE—*†Illinois Iron & Bolt Co. (Presses, Jacks, Vises, Drills, etc.)
*†Star Mfg. Co. (Steel Castings & Plows)
CARROLLTON—*†Enterprise Iron Works (Oswald Jackson, Prop.)
CARTERVILLE—*Coal Belt Machine Works
*Illinois Engineering & Machine Co.
CARTHAGE—*Leader Mfg. Co. (Grain Separators & Cleaners)
CHAMPAIGN—Bonner, C. E. Mfg. Co. (Nail Pullers, Wrenches, etc.)
*†Burr, E. M. Co. (Manhole Covers, Sewer Inlets, Municipal Castings, etc.)
Covers, Sewer Inlets, Municipal Castings,
*Wallace Machinery Co. etc.)
CHARLESTON—*Merritt & Mason
CHESTER—*†Dauer, L. A.
*A. A. 1. Av., 2959 Michigan av
CHICAGO—*Aaron Electric Co. (Dynamos & Motors), 124 S Clinton
*§Acme Metal Mfg. Co. (Brass Fdrs.), 551 W. Monroe
***ACME STEEL GOODS CO. (Steel** Goods, etc.), Archer av & Farrell. (See adv. index, end of book)
*Adams Bros. (Special Machy., etc.), 1716 N. Kedzie av
*§Adams & Westlake Co. (Railroad Specialties, Brass Fdrs., Finishers, etc.) Ontario & N Franklin
*Adapt Machinery Co. (Special Machinery), 1630 Wabash av
*Addressograph Co. (Adressing Machines), 901 W Van Buren
*Advance Machine Co. (Slot Machines), 4645 E Ravenswood pk
*†Aeromotor Co. (Windmills), Campbell av n of 12th
*Ajax Forge Co. (Frogs, Crossings, etc.), Blue Island & Hoyne
*Ajax Valve Co. (Valves, etc.), 1115 W Lake
*Allbright-Nell Co. (Packers' Machinery), 4019 Wentworth av
*§Allen, Edgar American Manganese Steel Co. (Brake Shoes & Miscellaneous Iron & Steel & Grey Iron Castings), 193 Michigan av
*§Allen, W. D. Mfg. Co. (Brass Founders' Brass Specialties, Finishers, etc.), 151 Lake
***†§ALLIS-CHALMERS CO. (See Milwaukee, Wis.)**
*†American Bridge Co. (Bridge Bldrs., etc.), 115 Adams
*§American Bronze Foundry Co. (Bronze Founders & Tablets, etc.), 73d & Woodlawn av
*†American Building Foundry Co. (Structural & Arch'l Castings), 1338 W 22d
***AMERICAN CAN CO. (Mach'y Dept.) (Can Makers & Canners' Machinery, etc.), 135 Adams**
*†American Car & Equipment Co. (Freight Cars, etc.), 84 Van Buren
*†American Car & Foundry Co., 2238 S Paulina (See St. Louis, Mo.)
*American Carton Sealing Machine Co., 1520 Johnson
*American Cutlery Co. (Cutlery, Scales, etc.), 732 Mather
*American Iron & Wire Works, 1622 Carroll av
*American Laundry Machinery Mfg. Co., 80 Franklin
*American Metalware Co. (Brass Bedsteads, etc.), 368 W Huron
*American Meter Co. (Gas Meters & Appliances), 34 S Jefferson
*American-Morgan Co. (Mining Machy), 2015 Raymond
*American Motor Cycle Co., 1356 Wells
*†American Radiator Co. (Radiators, etc.), 282 Michigan av
†American Steel Foundries (Steel Castings), 115 Adams
*American Steel & Wire Co., 115 Adams
*American Stove Co., 82 Michigan av
*†American Woodworking Machy. Co., 279 Dearborn. Factory, Aurora, Ill.
*Amundsen, A. & Co. (Tools & Dies), 542 W Jackson boul
§Anderson Bros. (Brass Founders & Finishers), 404 S Clark
*Anderson, Carl Co. (Gas & Gasoline Engines), 510 Huron
§Anderson, Chas. B., 120 Clinton
*Anderson, Chas. L., 569 W Van Buren
*Anderson, C. F. & Co. (Printers' & Binders' Machinery), 394 S Clark
*Anderson, Chris. W., 555 W Monroe
*Anderson Machine Co. (Machinists), 216 Jefferson
*Archer Iron Works (Wheelbarrows, Trucks, etc.), 164 Dearborn
*Armstrong-Blum Mfg. Co. (Punches & Shears, Rod Cutters, etc.), 334 N Francisco av
*Armstrong Bros.' Tool Co. (Tool Holders, Ratchet Drills, etc.), 339 N Francisco av
*Arnold, Schwinn & Co. (Bicycles, etc.), 1716 N 43d av
*†Art Bedstead Co., 37th & Rockwell
*Atlantic Tool & Machine Co. (Tools, Dies & Special Machy.), 517 W Jackson boul
*Austin Mfg. Co. (Road Grading & Well Drilling Machy), 315 Dearborn. Works, Harvey, Ill.
*Auto Machine Works Co., 331 S Clinton
*Automatic Machine & Tool Co. (Coin Operating Machines), 210 N Ann
*Automatic Racking Machine Co., ft. 28th
*Ayes & Co. (Lathe Dogs, Pipe Cutters, etc.), 1812 Ellen
*B. & A. Machine Works, 317 S Clinton
§Babbitt, R. M. Brass Foundry Co., 562 W Washington
*Bannister, H. G., 7334 Woodlawn av
*Barber, A. H. Creamery Supply Co. (Ice & Refrigerating Machy. & Dairy Supplies), 229 S Water
*Barbieri & Dellenbarger Co. (Mach'y & Tools, etc.), 2267 Clybourn av
***BARCO BRASS & JOINT CO.** (Brass Finishers), 226 N Jefferson. (See adv. index, end of book)
†Barr & Kellerman Fdry. Co., 473 W Erie
*§Bastain-Blessing Co. (Brass Fdrs. & Finishers), 125 W Michigan
*Bay State Trading Co., 1944 Carroll av
*§Beardslee Chandelier Mfg. Co. (Gas & Electric Fixtures), 225 S Clinton
*Bell & Howell (Moving Picture Machines) 213 W Illinois
§Berchem, Jules & Co. (Bronze Statuary, etc.), 4921 W Lake
*Bergholtz, Strodz & Co. (Tools, etc.), 2230 Ogden av
*Bergbom & Roberg (Machinists & Tool Makers), 441 W Randolph
*Besley, Chas. H. & Co. (Disc Grinders. Tapper Taps, etc.), 124 N Clinton
*Blakeslee, G. S. & Co. (Dish Washing Machines), 2866 Quinn
*Blomfeldt & Rapp (Special Machy., Dies. etc.), 108 N Jefferson
*Boland Machy. Co. (Ice & Washing Machinery), 326 S Clinton
*Boller, Peter (Machinist), 124 N Curtis
*†Bolter's, A. Sons, Belden & Ward
*Bottlers' Machinery Mfg. Co. (Labelling Machines, etc.), 420 N Wells
†Brady, Jas. A. Foundry Co. (Machinery Castings), 35th & Ashland av
*Brandes, Carl (Arch'l & Structural Iron), 1323 Otto
*†Brighton Foundry Co., 3306 Artesian av
*Bromm, Fred. J. (Tools), 2564 S Halsted
***†BROWN BROS. MFG. CO. (Builders'** Iron Work & Castings & Sidewalk Lights), W 22d & Campbell av
*Brown Specialty Machinery Co. (Core Making Machines, etc.), Jackson boul & Clinton
*†Brucker, Michael (Fdry. & Stove Repairs), 820 N Lincoln
*Brunner & Lay (Stone Jacks, ools, etc.). 570 W Polk
*†§Buda Co. (Railway Cars, Axles, Wheels. Track Equipments, etc.), 9 Jackson boul. Works, Harvey, Ill.
*Buissono Bros.' Mfg. Co. (Machinists). 3146 Wentworth av
*†§Burdette-Rowntree Mfg. Co. (Brass. Bronze & Aluminum Castings & Elevator Fixtures, Finishers, etc.), 515 Laflin
*†Burrell Mfg. Co. (Flour Mill Machy.). 2 S Clinton
*Burton's, A. G. Son (Safe Locks, etc.), 118 S Clinton
†Butler St. Foundry & Iron Co. (Iron Fdry.), 3422 Butler
***†CALDWELL, H. W. & SON CO.** (Elevating & Conveying, Grain Elevator & Power Transmitting Machinery), Western av & 17th. (See adv. index, end of book)
*Carmichael Range Co. (Stove & Range Mfrs.), 50 W Kinzie
§Casey Aluminum Foundry Co., 3806 S Halsted
*Cassady-Fairbank Mfg. Co. (Automatic & Bicycle Parts, etc.), 6126 La Salle
*Central Architectural Iron Works, 4103 La Salle
*Central Chandelier Co., 1547 Fulton
*Central Specialty Mfg. Co. (Bathroom & Laundry Fittings), 508 S Peoria
*Central Iron Works (Fire Escapes, etc.), 939 W Lake
§Chicago Aluminum Castings Co., 1513 Carroll av
*Chicago Apparatus Co. (Scientific Apparatus), 559 W Quincy
*§Chicago Bearing Metal Co. (Journal Bearings, Brass Castings, etc.), 193 Michigan av
*§Chicago Brass Co. (Brass Fdrs. & Finishers), 42 Madison
*Chicago Bridge & Iron Works, Throop c W 105th
§Chicago Bronze Mfg. Co., 134 E Lake
*Chicago Car & Equipment Co., 48th av & 68th
*†§Chicago City Ry. Co. (Fdry. Dept.), 77th & Wentworth
*Chicago Die & Machine Works, 568 Fulton
*Chicago Die & Stamping Co., 4740 W Ravenswood park
*Chicago Faucet Co. (Brass Goods, etc.), 200 S Clinton
*Chicago Fire Apparatus Co. (Fire Apparatus), 22 5th av
*Chicago Flexible Shaft Co. (Flexible Shafts, etc.), La Salle av & Ontario
†Chicago Foundry Co., 2122 N 58th
*Chicago Gas & Electric Fixture Co., 128 N Jefferson
*†§Chicago Hardware Foundry Co., 546 W Wash
†Chicago Iron Foundry, 2313 Austin av
*§Chicago Journal Bearing Co. (Car Brasses, Brass & Bronze Castings), 519 W Van Buren
*Chicago Laundry Machinery Co., 119 N Canal
*Chicago Machine Repair Co., 762 W Quincy
*Chicago Machine Tool Co., 127 N Canal
*Chicago Machine & Washer Co., 2625 W 15th
*Chicago Machinery Mfg. Co. 440 South Jefferson
†Chicago Malleable Castings Co. (Refined Malleable Castings), W 120th & Centre av
*Chicago Motor Cycle Works, 732 Sheridan
*†§Chicago Ornamental Iron Co., 37th & Stewart av
***†CHICAGO PNEUMATIC TOOL** Co. (Pneumatic Tools, Air Compressors, etc.), Fisher bldg. (See adv. index, end of book)
*Chicago Pump Co. (Pumps, etc.), 1071 Fulton
*†Chicago Railway Equipment Co. (Brake Beams, Bolsters, Side Bearings, Railway Specialties, etc.), 46th & Rodney
*Chicago Rival Machine Co., 2751 Lincoln
*Chicago Saw Sharpening Machinery Co. (Saw Sharpening Mach'y), 30 W Erie
*Chicago Scale Co., 1021 W Jackson boul
*Chicago Ship Building Co. (Marine Engines, Ship Builders, etc.), 101st & Calumet river
***CHICAGO SIDEWALK LIGHT** Co. (Sidewalk Lights, etc.), Shields av & 33d. (See adv. index, end of book)
*Chicago Spring Butt Co. (Hardware Specialties & Brass Fdrs.), 339 Union Park pl
*Chicago Steel & Brass Works, 1121 Washn boul
*Chicago Steel Car Co., 119 Monroe
†Chicago Steel Foundry Co. (Crucible, Manganese, Nickel, Canadian & Chrome-Vanadium Steel Castings), 217 La Salle
*Chicago Steam Specialties Co., 98 Jackson boul
*†Chicago Stove Works (Stoves, etc.), Blue Island av & W 22d

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*†Chicago Stove & Range Co. (Ranges, etc.), 2920 S Park av
*Chicago Time Lock Co., 2519 N Francisco
*Chicago Watch Tool Co., 1956 Grand av
*Chicago Water Motor & Fan Co. (Water Motors, etc.), 40 Dearborn
*Chicago Wood Working Machinery Co. (Wood Working Machinery, etc.), 162 N Clinton
*Chisholm, Boyd & White Co. (Brick Machinery, etc.), W 57th & Wallace
*Clark Dredge Mfg. Co. (Gold Dredges), 2036 Dominick
†Cleveland & Barr Foundry Co., 465 W Erie
*†§Clow, Jas. B. & Sons (Inc.) (Cast Iron Pipe & Plumbers' Supplies), 342 Franklin
*Clyde Machine Works (Crank Pin Machinery, etc.), 3913 Union av
*Colborne Mfg. Co. (Pie Bakers' Machinery, etc.), 416 W Indiana
*Cole Mfg. Co. (Stoves & Ranges), 3218 S Western av
*Comptograph Co. (Adding & Listing Machines), 1456 Dayton
*Confectioners' & Bakers' Supply Co. (Confectioners' & Bakers' Machy.), 11 E Illinois
*Continental Bridge Co., 98 Jackson boul
*Continental Engine Co. (Steam Engines), 131 N Canal
*Cook & Chick Co. (Jobbing & Repairing a Specialty), 18 E Kinzie
†Co-Operative Foundry Co., 505 S Clinton
*†Coughlin Pipe & Wrench Co., 2800 Woodlawn av
*†§Crane Co. (Steam Specialties & Cast Iron & Brass Goods). (See adv. index, end of book)
*Crary Machine Works, 408 W Indiana
*†Creamery Package Mfg. Co. (Ice & Refrigerating Machines & Creamery Supplies), 61 W Kinzie
*†Cribben & Sexton Co. (Stoves & Plumbers' Enameled Ware, etc.), 800 N Sacramento blvd
*Cross Press & Sign Co. (Wood Printing Machines), 1508 Dayton
*†Crown Stove W'ks (Stoves), 4631 W 13th
*Cullman Wheel Co. (Sprockets for Roller & Block Chains), 1346 Greenwood ter.
†Cummings, T. A. Foundry Co., 1338 Clybourne pl
*Cummins, B. F. Co. (Check Perforators, etc.), 4740 W Ravenswood pk
*Curran, M. J., 22 Custom House pl
*†Dauchy Iron Works (Builders' Iron Work, Castings & Vault Lights), 223 W Illinois
*Davis, G. M. Regulator Co. (Valves, etc.), 422 Milwaukee av
*†§Davis, Horwich & Steinman (Brass & Iron Beds), 2236 La Salle
*Davis-Johnson Mfg. Co. (Hydraulic Presses & Pumps, etc.), 4518 Lexington
*†Davison Fdry Co. (Light & Heavy Grey Iron Castings, etc., Manhole & Conduit Covers, Catch Basins, etc.), 144th & R R av
*†Dawson Bros. (Grates & Metal Trimmings), 319 N Halsted
*†Dearborn Foundry Co. (Builders' Iron Work & Castings), 1525 Dearborn
*Dearborn Machine Works, 296 Dearborn
*Dee, Wm. E. Co. (Castings, Sewer, Covers, Gratings, etc.), 108 La Salle
*Delano, E. A. Co. (Shafts, Hangers & Pulleys), 217 W Huron
*Dick, A. B. Co. (Copying & Duplicating Machines), 736 W Jackson boul
*Dobbins, C. E. & Co. (Axles & Springs), 460 N Halsted
*†Domestic Sewing Machine Co. (Sewing Machines), 1323 Mich av. Works, Kankakee, Ill.
*Donaldson & Fisher Co., 218 W Kinzie
†Dopp, J. W. Foundry Co., 132 S Clinton
*Drake Standard Machine Works (Brick Machinery & Concrete Mixers. etc.), 1025 W Jackson boul
*Dreis & Krump Mfg. Co. (O K Cornice Brake, etc.), 2911 S Halsted
*†Duffin's Iron Works (Arch'l Iron, etc.), 40th & Wentworth av
*Dunbar & Co. (Peanut & Pop Corn Roasting Machines), 2652 W Lake
*Dunn, Wm. E. & Co., 1328 Grand av
*Dunne, Geo. W. & Co., 1814 Carroll av
*Duplex Vacuum Engine Co., 256 Madison
*Eastham Mfg. Co., 146 S Water
*Economic Specialty Co., 2128 W 39th pl
*†Eddy, R. M. Foundry Co. (Boiler & Machinery Castings, etc.), 372 W Indiana
*†§**ELEVATOR SUPPLY & REPAIR** Co. (Brass & Iron Casting), 561 W Monroe. (See adv. index, end of book)
†Elizabeth Street Foundry (Iron Fdry.), 5837 S Elizabeth
**ELMES, CHAS. F. ENGINEERING** Works (Hydraulic, Fire Boat & Rubber Machinery), Fulton & Morgan. (See adv. index, end of book)
*§Empire Brass Works (Brass Founders, Finishers, etc.), 701 Fulton
*Emrath, Louis, 218 Washington
*Enterprise Tool & Metal Works (Machinists), 126 S Clinton
Erb, W. B. & Co. (Machinists), 405 S Clinton
*Erwin & Co. (Hydraulic Pumps, etc.), 56 Dearborn
*Essley, E. L. Machinery Co., 555 W Washn
*Excel Die & Machine Works, 617 W Jackson blvd
*Excelsior Steel Furnace Co. (Furnaces, etc.), 517 W Monroe
*Fahey, Chas. W., 604 W Lake
*†Fairbanks, Morse & Co., 481 Wabash av
*§Faunt Bros. (Brass Founders, Finishers, etc.), 159 N Jefferson
†Fearon-Tillotson Foundry Co., 741 Townsend
*†Federal Brass Works (Brass Fdrs. & Finishers, Fire Dept. Supplies & Castings), 22 W Illinois
*†§Federal-Huber Co. (Plumbers' Goods, etc.), 234 N Halsted
*Federal Machine Mfg. Co., 117 N Canal
*Federal Mfg. Co. (Geyser Cocks, etc.), 158 State
*Felt & Tarrant Mfg. Co. (Comptometers, etc.), 1717 N Paulina
†Ferguson & Lange Foundry Co. (Grey Iron, Ammonia, Chilled & Hydraulic Castings & Chilled Car Wheels, etc.), Claybourn av & Willow
*Fischer Machine Works (Woodworking Machinery), 1845 Carroll av
*Folding Sawing Machine Co., 158 Harrison
*Foley, J. L., 540 W Jackson boul
*†Foley & Williams Mfg. Co. (Sewing Machines), 48 Jackson boul
*Force, Wm. A. & Co. (Inc.) (Stamps, Dies, etc.), 75 Market
*FOOTE BROS. GEAR & MACHINE Co. (Engineers' & Machinists' Special Machinery, Cut Gears, etc.), 210 N Carpenter. (See adv. index, end of book)
†Forster, Waterbury & Co., Lombard & Belmont
*Fort Dearborn Mfg. Co. (Special Machy., etc.), 1574 Crossing
§*Fowler Brass Works (Plumbers' Brass Goods), 2333 Wabahs av
†Frake, Jas. (Iron Fdry.), 1420 W Kinzie
*Franke, Edwin, 323 West Mich
†Francis & Nygren Foundry Co. (Semi-Steel & Iron Fdrs.), 2524 Fillmore
*†Franklin Pipe & Foundry Co., 2438 S Paulina
*Furness Bros.' Co. (Machinists, Pumps, etc.), 172 N Desplaines
*Gallaher & Speck (Machinists), 184 E Congress
*Gaus, J. C., 1351 W Van Buren
*GANSHOW, WM. CO. (Engineers' & Machinists' Special Machinery, Cut Gears, etc.), 1011 Washington boul. (See adv. index, end of book)
†Garden City Foundry, 616 W Monroe
*†Garden City Fan Co. (Iron Fdrs. & Blowers, Exhaust Fans, etc.), Fisher bldg. Works, Niles, Mich.
†Garden City Foundry (Iron Founders), 616 W Monroe
*Garvy Co. (Iron Beds), 49th av & Bloomingdale rd
*Glader, Wm., 210 N Ann
*Globe Special Machinery Co., 108 N Jefferson
*Goetz & Flodin Mfg. Co. (Brewery & Bottle House Mchy.), 1802 Claybourn av
*†Golden Novelty Mfg. & Foundry Co. (Art Metal Works), 126 N Union
*†Goss Printing Press Co. (Printing Presses), 1535 S Paulina
*§Grant, Michael F. & Co. (Brass Fdrs. & Finishers), 330 S Clinton
†Gray Iron Foundry Co., 319 W Michigan
*†Green Engineering Co. (Traveling Link Grates, etc.), Com'l Nat'l Bank bldg
*†Greenlee Bros. & Co. (Woodworking Machinery, etc.), Railway Ex bldg
†Greenlee Foundry Co. (Iron Fdrs.), 622 West 12th
*Gregory Electric Co. (Electric Machinery), 16th & Lincoln
*†Griffin Wheel Co. (Car Wheels), 138 Jackson boul. Works, Sacramento av & C. & N. W. Ry
*Grotnes, Chas. (Machy.), 128 N Jefferson
*Gruendel, Geo. (Machinist), 105 N Canal
*Guarantee Electric Co. (Dynamos & Motors), 260 S Clinton
*Gump, B. F. Co. (Rebuilt Flour Mill Machinery), 315 Dearborn
*Haberkamp, Wm. Machine Works (Saturating & Roofing Paper Mach'y, etc.), 424 Wells
*Halsted, Jos. C. (Builders' Iron), 1233 W Randolph
*Hanna Engineering Works, 2059 Elston av
*†Hansell-Elcock Co. (Iron Founders & Builders' Iron Works), Archer av & Butler
*Hardinge Bros. (Sensitive Drills & Watchmakers' Tools, etc.), 3135 N Lincoln av
*Hardinge, H. H., 1133 Newport av
*§Harris, Arthur & Co. (Brass Founders & Finishers for Breweries, Distillers, etc.), 212 N Curtis
*Harvard Electric Co. (Electrical Specialties), 523 W Van Buren
*Harvard Tool Mfg. Co. (Dies, etc.), 426 W Madison
*†Hawley Down Draft Furnace Co. (Mechanical Stokers' Melting Furnaces, etc.), 164 Dearborn
*Heath, Edw. H. Machinery Co., 115 Water
§Hecht, Jere M., 208 Kinzie
*Hedfeldt Co., 301 W Indiana
*Heerey Machine & Battery Works, 918 E 43rd
*Heinemann, Louis, 1535 Melrose
*Helmold, J. F. & Bro. (Machine Tools), A & Dominick
*†Herbert, M. E. Heater Co. (Boilers, etc.), Root & La Salle
*Hennebohle Co. (Steam & Hydraulic Specialties), S Chicago & Erie avs
*Hermetic Closure Co. (Canning Machinery), 2444 W 16th
*§Hewitt Mfg. Co. (Brass Founders & Finishers), 9 Jackson boul
*Hiles, C. A. & Co. (Saws, Tools, etc.), 14th & Western av
*Hill, J. B. Co. (General Machine Work), 111 S Jefferson
§*Hills-McCanna Co. (Brass Fdrs. & Engineers' Supplies), 153 W Kinzie
*Hine-Watt Mfg. Co. (Automobile Lamps, etc.), 45 Randolph
*§Hodgson, Jno. & Co. (Brass Fdrs. & Finishers), 2014 W 13th
*Hoeft & Co. (Special Machy., Dies, Tools, etc.), 141 W Michigan
*Hoffmann, Emil R. (Special Machinery), 542 W Jackson blvd
*Holden Mfg. Co. (Automatic Presses & Special Wire & Tin Working Machy.), 216 S Jefferson
*†Holland Radiator Co. (Radiators, etc.), 38 Dearborn
*Holland, Wm. Brass Works (Brass Founder & Finisher), 616 W Monroe
*Holliday Mfg. & Eng. Co. (Gasoline Engines), 749 Bunker
*Holmes Bros. (Molds, etc.), 546 W Jackson boul
*†Holmes, Pyott & Co. (Builders' Iron Work & Foundry & Machinists), 159 N Jefferson
*†Home Stove Works (Stoves), W 18th & S Rockwell
*†Hughson Steam Specialty Co. (Steam Specialties, etc.), 5021 S State
*Hydraulic Engineering Works (Hydraulic Press & Pumps), 218 N Jefferson
*Ilg Electric Ventilating Co. (Blowers, Fans, etc.), 154 Whiting
*Illinois Car & Mfg. Co., 77 Jackson boul
*Illinois Cutlery Co., 171 Washn
*Illinois Die & Tool Works, 162 N Desplaines
*Illinois Engineering Co., 98 Jackson boul
*Illinois Gas & Elec. Fixture Co., 2649 W North av
*Illinois Heater & Mfg. Co., 35 Dearborn
*†§Illinois Malleable Iron Co. (Iron & Brass Fdrs., Pipe Fittings & Plumbers' Supplies), 1801 Diversey boul
*Illinois Maintenance Co., 135 Adams

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*†Illinois Sewing Machine Co. (Sewing Machines, etc.), 35 Randolph. Works, Rockford, Ill.
*†§Illinois Steel Co. (Iron, Steel & Brass Castings, All Consumed by the Company; also Machine Shops), 115 Adams
§Illinois Smelting & Refining Co., 410 N Peoria
*†§Illinois Steel Co. (Iron, Steel & Brass Castings, All Consumed by Company; also Machine Shop), 115 Adams
*§Imperial Brass Mfg. Co. (Brass Fdrs. & Finishers), 444 S Jefferson
*Inland Steel Co., 1st National Bank. Works, Chicago Heights, Ill.; Indiana Harbor, Ind.
*International Filter Co., 1702 Wabash av
*†§**INTERNATIONAL HARVESTER** Co. of America (Agricultural Implements, Iron, Steel & Brass Castings; All Consumed by the Company), 230 Harvester bldg. (See adv. index, end of book)
*International Register Co., 625 W Jackson boul
*Interstate Equipment & Engr. Co., 84 Van Buren
*†§Jackson, Geo. W. (Inc.) (Excavating & Tunneling Machinery, Iron & Brass Founders), 756 W Jackson boul
James, D. O. Mfg. Co. (Gear Cutting), 1120 W Monroe
*Jann & Shank Mfg. Co., 619 W Jackson
*JENNINGS PUMP & DREDGE Co. (Dredging Mach'y, Pumps, etc.), 305 N Michigan. (See adv. index, end of book)
*Johnson, Chas. & Son (Fire Escapes, etc.), 320 Indiana
†Johnston & Jennings Co., 1020 W 38th. (See Cleveland, O.)
*†Jones, W. A. Foundry & Machine Co. (Power Transmitting Machinery & Castings), 18 N Jefferson
*Jones Refrigerating Machine Co. (Refrigerating Machines, etc.). Works, Elgin, Ill.
*Joy, C. H. (Slot Machines), 450 S Jeff'n
*Kaestner & Hecht Co. (Elevators, Brewers' & Malsters', Paint Grinding & Mixing Machinery), 440 S Jefferson
*Kapsa, B. A., 2316 S Sawyer av
*Karas Electric Co. (Electric Specialties), 215 W Illinois
*Karbatzke, J. G. & Son, 1338 W 22nd
*Kellogg Switchboard & Supply Co., 434 S Green
§Kelly Brass Works, 543 Orleans
*Kelly, Thomas & Bros. (Water Closets & Sanitary Brass Goods), 422 S 45th st
*KENNICOTT CO. (Steel Plate Work of all Kinds), Corn Exchange B'k bldg. (See adv. index,end of book)
*Kimble Electric Co. (Variable Speed Motors), 1121 Washington boul
*Kimball & Chappell Co. (Metal Bedsteads, etc.), 2834 Loomis
*Kimber, G. A., 557 W Jackson boul
*Kitten, Jos. W., 626 W Kinzie
*Klemm, E. R. (Stone Jacks), 616 W Monroe
*Klein, Mathias & Sons (Tools), 562 W Van Buren
*Kling Bros. (Punches, Shears, Plate Rolls & Boilermakers), 1304 Hawthorne
*Klipfel Mfg. Co. (Valves, Regulators, etc.), 214 N Carpenter
*Knode, Brown & Co. (Hair Pickers, etc.), 4432 Dover
*Koehl, Geo. J. (Rug Machy.), 1903 Milwaukee av
*Kohler Die & Specialty Co. (Tools, Dies, Presses, Special Machy., etc.), 817 Washington boul
*Kreiter, Louis & Co., 313 S Clinton
*Kroeschell Bros. Ice Machine Co., 474 W Erie
*Kroeschell Bros.' Ice Machine Co. (Ice Machines, etc.), 440 W Erie
*Kyle Bottle Washing Machine Co. (Bottle Washing & Soaking Machines, etc.), 340 N Ashland av
*Lammert & Mann (Gas & Gasoline Engines, etc.), 216 S Jefferson
*Lamson Cutter Head Co. (Woodworking Machy.), 30 N Jefferson
*Lang, J. Electric Co. (Elec. Machy.). 423 N Lincoln
*Lange, Henry G. (Glass Beveling & Coffee Roasting Machinery), 172 N May
*Larsen Ice Machine Co. (Inc.) (Ice Machines), 173 N Jefferson
*Larsen, Ivert (Special Machy., Dies, etc.), 221 N Elizabeth
*Latham Machinery Co. (Bookbinders' Wire Stitching & Perforating Machines, etc.), 306 S Canal
*Lathey Steel Type Co. (Steel Type, etc.), 27 W Illinois
*Latrobe Steel & Coupler Co. (Car Couplers & Steel Castings), 7 Jackson blvd
*Lidseen & Eckholm Mfg. Co., 617 Fulton
*Lindahl, Henry Machine Co., 954 W Lake
*†**LINK BELT COMPANY, Main** Office, Philadelphia, Pa. (See adv. index, end of book)
*§Liquid Carbonic Co. (Soda Fountains), 440 Wells
*Loveland & Monahan (Wood Working Machinery), 527 W Van Buren
*Lovejoy Tool Works (Tools, Jacks, Punches, etc.), 335 W Ohio
*Lubinsky, Paul, 1029 W 12th
*†M. & D. Range Co. (Ranges, etc.), 100 Lake
*McCanna Mfg. Co. (Lubricators, etc.), 216 N Jefferson
*McClure, E. P. & Co., 559 W Lake
*McCrea, Jas. & Co. (Steam Specialties & Boring Machines for Electric Wiring), 558 W Washington
*McDonald, J., 37 S Clinton
*McDonald Machine Co. (Can Making Machinery, etc.), 3207 Shields av
*Machine Perfecting & Mfg. Co. (Special Machy., etc.), 150 N Desplaines
*Marchant, Geo. F. (Punches, Dies, etc.), 219 N Elizabeth
*Marine Iron Works (Paddle Wheel & Marine Machy.), 2036 Dominick
*Marsh, Jas. P. & Co. (Steam Gauges, etc.), 224 Washington
*Martin & Anson Co. (Air Compressors), 2226 Indiana av
*Massey Vise Co. (Vises, etc.), 9 W Michigan
*Mateer, F. W. & Co. (Laundry Machy.), 637 N Franklin
*Metal Novelty Works Co. (Special M'ch'y, Dies, Tools, etc.), 85 W Lake
*Metal Specialties Mfg. Co., 427 W Randolph
*Miehle Printing Press & Mfg. Co. (Printing Presses, etc.), 14th & Robey
*Miller Chemical Engine Co., 222 W Huron
*Mills Novelty Co. (Coin Operating Machines), 221 S Green
*Mitchell, F. C., 418 Dearborn
*†**MONIGHAN MACHINE CO. (Hoisting** Engines, Steam Hammers, Grey Iron Castings, etc.), 2034 Carroll av. (See adv. index, end of book)
*Moore & Co. (Special Machy., Dies, Tools, etc.), Indiana & Franklin
*Moore-Master Mfg. Co. (Power Transmission), 320 W Indiana
*Moore & Lorenz Co. (Flour Mill & Grain Elevator Machy.), 2144 W Fulton
*Morden Frog & Crossing Works (Frogs, Switches, Crossings, etc.), Com'l Nat'l Bank bldg
*Morgan Coke Machine Co., 2015 Raymond
*Morgan-Gardner Electric Co. (Electric Mining Machinery), 2642 Shields av
*Moyer & Sholes, 118 Harrison
*Mulvey, Chas. Mfg. Co., 1331 35th
†Munro, Daniel (Iron Fdrs.), 433 S Jefferson
*Murray, W. B. (Gasoline Engines), N Winchester & Wabansia av
*†National Car Coupler Co. (Car Couplers, Buffers, Steel Platforms, etc.), Monadnock blk. Works, Attica, Ind.
*National Hollow Brake Beam Co., 46 Winchester av
*National Iron Works, 5926 S Ashland av
*National Jack & Mfg. Co., 130 Clinton
*National Laundry Machy. Co., 1043 W Randolph
*National Light, Heat & Power Co. (Gasoline Lamps, Dies, Tools, Svrew Machine Work, etc.), 814 W Lake
*National Machine Works (Brewers' & Maltsters' Machy.), Sheffield & North av
†National Malleable Castings Co. (Malleable Iron Castings for R. R., etc.). 2610 W 25th pl
*National Sewing Machine Co., 53 Wabash av
*National Stamping & Electric Works (Electric & Special Machinery, Dies, Tools, etc.), 410 Clinton
*National Steam Specialty Co. (Steam Gauges, Valves, etc.), 14 S Clinton
*Nelson, A. Mfg. Co. (Bicycle & Auto Parts), 564 W Randolph
*Nelsin & Le Moon (Machinists), 605 W Monroe
*Nicholas, T. E. & Co., 548 W Jackson boul
*Nichols, Geo. P. & Bro. (R. R. & Special Machy., etc.), 614 S Canal
*Novelty Machine Works, 2646 Sheffield av
*Nye Steam Pump & Machy. Co., 567 W Washington
*Nye Tool & Machine Works (Mechanical & Electrical Machy.), 108 N Jefferson
*O'Leary, Arthur J. & Son Co. (Iron & Steel Articles), 644 W Lake
*Oliver Tyewriter Co. (Typewriters), 55 Dearborn. Works, Woodstock, Ill.
*Olsen & Tilgner Mfg. Co., 448 W Ontario
*Orton-Steinbrenner Crane Co. (Cranes, etc.), 181 La Salle
*Ostrander-Seymour Co. (Printing Machy.), 143 Dearborn
*†Otis Elevator Co., 9 Jackson boul
*Owen, E. H. & Co. (Dies, etc.), 101 N Jefferson
*Paragon Mfg. Co. (Laundry Machinery), 3609 Ashland av
*Partridge, Edw. O., 2047 Lake
*Peerless Electric Co. (Dynamos & Motors), 127 S Green
*Pelouze Scale & Mfg. Co. (Scales, etc.), 232 E Ohio
*Perkins Machinery Co. (Bookbinders' & Printers' Machinery), 132 S Clinton
*†Perrin, Wm. R. & Co. (Power & Hydraulic Presses, etc.), 46th & Loomis
*Pettibone, Mulliken & Co. (R. R. Frogs, Crossings, Switches, etc.), Marquette bldg
*†Phoeix Foundry Co. (Sash Weights, etc.), 1455 S Jefferson
*†Pilsen Foundry & Iron Works, 1530 W 22d
*†Plamondon, A. Mfg. Co. (Power Transmitting Machy., etc.), 24 N Clinton
*Plunket, Jas. E. (Drill Press, Milling Machine Vises, Gas Engines, etc.), 1342 W Lake
*Pollard Engineering Co. (General Machinists Punches, Dies & Presses, etc.), 165 N Jefferson
*Pondelick Bros., 215 S Leavitt
*Pratt, Henry (Machinists & Boiler Makers), 2222 S Halsted
*†§Pratt, Wm. E. Mfg. Co. (Malleable Iron Castings, Hdwe. Specialties, etc.), 91 Lake. Works, Joliet, Ill.
*†Pridmore, Henry E. (Molding Machines), 1901 S Rockwell
*Pringle & Brody Machinery Co. (Wood Working Machinery, etc.), 514 S Canal
*Printers' Chase & Machine Works (Special Machy.), 159 N Jefferson
*Printers' Mfg. Co. (Printers' Machy.), 340 Dearborn
*†§Pullman Co. (Car Builders, etc.), Pullman bldg. Works, West Pullman, Chicago
*†Pyott Foundry Co. (Iron Fdrs. & Bldrs.' Iron Work), 945 Carroll av
*Quadriga Mfg. Co. (Special Machy.), 119 N Canal
§Quincy Brass Works (Brass Fdrs. & Finishers), 132 S Clinton
*Railroad Supply Co. (Railroad Specialties), 215 Dearborn. Works, Chicago Heights, Ill.
*†Railway Foundry Co., 9390 S Chicago av
*Raymond Bros.' Impact Pulverizer Co. (Brick, Cement, Mining, Paint, Pulverizing, etc.), 150 W Harrison
*Rebsamen & Almeroth (Brewers' Machy.), 2324 Elston av
*Rebuilt Typewriter Co. (Typewriters Rebuilt), 328 N May
†Reder Foundry Co. (Machy. & Builders' Castings), 2125 Canalport av
*Redington, F. B. Co. (Special Machy., Gears, etc.), 112 S Sangamon
*†Reedy Foundry Co., 4600 Iowa
*Reedy Mach. & Electric Co., 316 W Mich
*†Reedy, J. W. Elevator Mfg. Co. (Passenger & Freight Elevators & Iron Founders), 212 W Illinois
*Reichel & Drews (Special Machy.), 559 W Lake
*Reliance Elevator Co. (Elevators, etc.), 312 W Ontario
†Rempe Co. (Cast Iron Pipe & Coils), Sacramento & Carroll avs
*Rhodes Watch Tool Co., 101 N Jefferson
*Risser Mfg. Co. (Dies, Tools & Special Machinery), 1033 W Lake

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*Rissling & Mahnke, 115 S Clinton
*Ristenbatt, Jno. C., 557 W Jackson boul
*†§Riverside Iron Works, 106th & Buffalo
*†Roos, Henry Fdry. Co., 1752 N Kimball av
†Root Street Foundry Co. (Grey Iron Castings), 140 Root
*Roth Bros. & Co. (Dynamos & Motors & Electric Drives), Loomis & Adams
*Rouse, H. B. & Co. (Printers' Tools, etc.) 2214 Ward
*Rowe, Jas. (Machinists), 444 S Jefferson
*§Ryan, J. J. & Co. (Brass Founders & Finishers), 104 S Jefferson
*Saal, H. G. (Dies & Tools), 4410 W Ravenswood pk
*Sackett, H. B. Screen & Chute Co. (Coal Handling Machy., etc.), 1685 Elston av
*Sandberg, Adolph L. (Sand Forging, etc.), 173 S Clinton
*Sargent, E. H. & Co. (Laboratory Apparatus, etc.), 143 Lake
*Savage Bros. Co. (Confectioners' Machy.), 321 Michigan
*Schaefer Bros.' Co. (Electrical Machy.), 1111 Julius
*Schindler, A. J. (Machinery), 1314 W 21st
*Schniederwend, Paul & Co. (Paper Cutting Machines, Proof Presses, etc.), 625 W Jackson blvd
*Schultz, Richard A., 212 W Ontario
*Schultz, A. L. & Son Iron Works (Power Transmitting Mchy.), 1675 Elston av
*Schultz, Walter L., 29 S Clinton
*Schureman, J. L. Co. (Elec. Specialties), 541 W Jackson boul
*Shapiro, Sam'l, 197 Randolph
†Sheffield Foundry Co. (Iron Fdrs.), Clybourn av & Herndon
*Sheldon, E. H. & Co. (Woodworking Machinery, etc.), 312 N May
*Shniedewend, Paul & Co. (Photo Engravers' Machy.), 619 W Jackson boul
*Shone Co. (Ejectors), 851 Black Hawk
*Sim, Geo., 421 S Clinton
*Sinclair Laundry Machinery Co., 224 N Clinton
*†Simplex Railway Appliance Co. (Car Bolsters, Roller Side Bearings, etc.), Com'l Not'l Bank bldg. Works, Hammond, Ind.
*Simpson & Ashton, 319 S Clinton
*†Skillin & Richards Mfg. Co. (Grain Elevator Machinery), 46th av & Courtland
*§Smeeth-Harwood Co. (Bronze & Copper Castings for Blast Furnaces), 2401 W 22nd
**†§SMITH, F. P. WIRE & IRON** Works (Builders' Iron Work & Iron & Bronze Castings), 100 Lake. (See adv. index , end of book)
†Smith, Chas. Co. (Furnaces, etc.), 101 Lake
*Smith, F. H. Mfg. Co. (Hand & Foot Power Riveting Machines, etc.), 321 St. Johns ct
*Smith & Phillips Mfg. Co. (Woodworking Machinery), 412 N Sangamon
*Smurr & Kamen Machine Co. (Wire Crimping, Cutting & Counting Combined Machines, etc.), 313 North Sacramento ct
*†South Halsted Street Iron Works (Fdrs.' & Bldrs.' Iron Work), 2611 S Halsted
*†Sprague-Davis Iron Works, 321 W Michigan
*†Standard Architectural Iron Works, 2300 Bloomingdale av
*Standard Brake Shoe Co., 277 Dearborn
*Standard Car Truck Co. (Car & Locomotive Trucks, etc.), Old Colony bldg
*Standard Co., 9 Jackson boul
*Standard Coupler Co., 279 Dearborn
*Standard Earth Auger Co., 1128 Newport av
*Standard Elevator & Mfg. Co., 550 W 15th
*Standard Stove & Furnace Repair Co., 2752 Lincoln av
*Star Brass Works (Whitewash Machines, Finishers, etc.), 1911 Fulton
*Staver Carriage Co. (Feed Mills. Carriages, etc.), 76th & Wallace
*Stearns Steel Range Co. (Steel Ranges), 188 Lake
*Stewart & Clark Mfg. Co. (Speedometers, etc.), 1848 Diversey blvd
*§Stier, Herman Mfg. Co. (Brass Founders & Finishers), 1332 N Halsted
*§Street & Kent Mfg. Co. (Brass Fdrs., Plumbers' Brass Specialties), 549 Fulton
*Strohm, W. A. & Bro. (Bicycles & Novelties), 1612 W Lake
*Stromberg Motor Devices Co. (Carbureters, etc.), 66 E 25th
*Stroud, E. H. & Co. (Cement & Paint Machy., Grinding Mills, etc.), 55 West Kinzie
*Strube Machine Works (Machinists, Special Machinery), 337 W 25th
*Superior Machine Works (Machinists), 611 W 12th
*Superior Machine & Boiler Works (Machinists), 848 W Superior
*Superior Stove Works (Laundry Stoves), 832 W Superior
*Surerus & Greenhill (Milling Cutters, etc.), 502 W Division
*†Tarrant Foundry Co. (Iron Fdrs., Light & Heavy Grey Iron Castings, etc.), 373 W Indiana
*Tarrant, Robt. (Marine Engines, etc.), 331 W Illinois
*Temple Pump Co. (Engines, Pumps & Windmills), 418 W 15th pl
Templeton, Kenly & Co. (Track Jacks, etc.), 1335 Sloan
*Thomas Bros.' Mfg. Co. (Hardware Specialties, etc.), Fillmore & Rockwell
*Thomas Elevator Co. (Hod Hoisting Machinery, etc.), 20 S Hoyne
***THOMAS & SMITH (Inc.) ("Economy" Hot Air Pumping Engines), 116 N Carpenter. (See adv. index, end of book)**
*Tietgen, Falk & Co. (Gas & Electric Fixtures), 550 W Van Buren
*Tillotson & Stout Co., 735 Townsend
*Toles, W. C. Co. (Spiral Machinery & Vises), 4034 N 43rd av
*§Tronkhorst, Frank Mfg. Co. (Brass Fdrs. & Finishers), 902 Larrabee
*Trini, A. & Co., 557 W Jackson boul
*Troy Laundry Machinery Co. (Ltd.) (Laundry Machinery), 23rd & La Salle
*Tunelius Machine Co., 411 S Clinton
*Union Drop Forge Co. (Drop Forging & Machinists), 358 W Indiana
*Union Elevator & Machine Co. (Elevators & Machinery), 144 E Ontario
***UNION FOUNDRY WORKS (Iron** Founders & Builders' Iron Work), 38 S Dearborn
*Union Special Machine Co. (Sewing Machines), 300 W Kinzie
*†Union Wire Mattress Co., Cherry av & Black Hawk
*United Pump & Power Co. (Compressors, Pumps, etc.), 84 Van Buren. Works: Clyde, Ill.
†United Stock Yards Fdry. Co., 834 W 49th pl
*Universal Automatic Type Casting Machine Co. (Type Casting Machines), 323 Sheldon
*†Variety Mfg. Co., Sacramento & Carroll avs
*†§Vaughn & Bushnell Mfg. Co. (Hardware Mfrs.), 3130 Carroll av
*Venn-Severin Machine Co., 1317 W North av
*†Vierling Iron Works (Founders & Bldrs.' Iron Work), 23rd & Stewart av
*†Vulcan Iron Works (Fdrs. & Machinists, Dredging & Pile Driving Machinery etc.), 327 N Irving av
*Wabash Machine Works, 1926 Wabash av
*Wachs, E. H. Co., 149 W Indiana
*Walsh Press & Die Co. (Presses, Dies, Special Machinery, etc.), 4709 W Kinzie
*Walworth, A. O. & Co., 30 S Clinton
*Watling Mfg. Co. (Coin Operating Machines), 728 W Jackson
*Weber Bros.' Metal Works, 108 N Jefferson
*†§**WEBSTER MFG. CO. (Elevating** & Conveying, Grain Elevators Appliances, Mining, Phosphate Mill, Power Transmission, etc.), 2410 W 15th. (See adv. index, end of book)
*†§Weir & Craig Mfg. Co. (Steam Specialties, etc.), 2421 Wallace
*†§Welch, E. J., Foundry Co. (Brass & Iron Castings, etc.), 24th pl. & Wallace
***†WELLER MFG. CO. (Elevating,** & Conveying, Grain Elevator, Power Transmitting Machinery, etc.), 853 E North av. (See adv. index, end of book)
*Wells, F. C. (Est. of) (Steam Pumps), 101 S Clinton
*West Pullman Car Works (Freight Car Construction & Repairs)
*Westerlin & Campbell Co. (Refrigerating Machy.), 26 N Clinton
§Western Brass Mfg. Works (Brass & Bronze Hardware, Plumbers' Brass Goods & Brass & Composition Castings), W 21st pl c S Rockwell
*†§Western Electric Co. (Electric Machinery & Specialties), 500 S Clinton
†Western Foundry Co. (Iron Fdrs., Soft Grey Iron Castings), 3634 S Kedzie av
*†Western Steel Car & Foundry Co. (Steel Cars & Castings), Old Colony bldg
*Whipple Car Co. (Car Bldrs.), 115 Adams
†*White Brass Castings Co. (Die Moulded Castings), 1656 Austin av
*White Bros., 2917 Fulton
*Whiting, Geo. Co. (Punching & Shearing Machy.), 1701 Elston av
*Willard Sons & Bell Co. (Steam Forging & Machinists), 98th & Erie av
*Wire Specialty Works (Wire Forming & Rotary Machines), 549 Fulton
*Wishart-Burge Machine Works (Special Machinery, Vulcanizers, etc.), 218 N Jefferson
*Wold, Torris & Co. (Canners' & Special & Experimental Mach'y & Models), 218 N Jefferson
*†Wolf, Fred W. Co. (Ice Making Machy., etc.), 827 Reas
*†§Wolff, L. Mfg. Co. (Iron & Brass Fdrs., Plumbers' Supplies, Cast Iron Pipe & Plumbers' Brass Goods, etc.), 601 W Lake
*Wood, Morris & Sons (Moulding & Carving Machines), 5108 W Lake
*Woodlawn Repair Co., 867 E 63rd
*Woods Machine Co., 2344 S Robey
*Worlein (Special Machinery), 1513 Diversey
*Wrigley, Thos. & Co. (Printing Presses & Special Machy.), 302 Dearborn
*Yeomans Bros. (Pumps, etc.), Monadnock blk
Zehrbaugh & Fry, 11 W Kinzie
*Zoeller, Wm. Co. (Machinist), 325 N Curtis

CHICAGO HEIGHTS — *†§American Brake Shoe & Foundry Co. (Brake Shoes, Steel Castings, etc.), Main Office, Mahwah, N. J.
*†American Car & Equipment Co. (of Chicago)
*Ayer, Fred H. Mfg. Co. (Electrical Appliances, etc.)
*†Bonnet-Nance Stove Co. (Stoves, Ranges, etc.)
*†Canedy, Otto, Mfg. Co. (Anvils, Vises, Forges, Blowers, Drills, etc.)
*†Canedy, A. E. (Pumps, Electrical Specialties, etc.)
*†Chalmers & Williams (Mining Machy. & Rock Crushers, etc.)
*Funk Bros. (Miners' Tools & Supplies, etc.)
*Inland Steel Co. (See Chicago, Ill.)
*Kennicott Water Softener Co. (Water Softeners, etc.)
*†King & Andrews Co. (Steel Castings & Iron Founders, etc.)
*Morden Frog & Crossing Works (See Chicago, Ill.)
*Phoenix Fire Extinguisher Co. (See Chicago, Ill.)
*†Quaker Mfg. Co. (Hot Air Furnaces & Heaters, etc.)
*Van Doren Mfg. Co. (Tool Holders, etc.)
*Wood, Smith & Co. (Carriage & Wagon Axles, etc.)

CHILLICOTHE—*Slinn, H. H.
CISSNA PARK—†Gerard, Michael
CLAYTON—*†Birkett, A. S.
CLYDE—*Coonley Mfg. Co. (Tinware Mfrs., etc.)
United Pump & Power Co. (See Chicago, Ill.)
COBDEN—*Ede, Geo. A. (Machinist)
COLLINSVILLE—*†Bernhardt, Niehaus & Co. (Inc.)
*†Blum Mfg. Co. (Stock Bells, etc.)
CONCORD—*Rayborn, J. J.
COULTERVILLE—†Bouas, E.
DANVILLE—*Chicago & Eastern Ry.
*†§Danville Foundry & Machine Co.
*§Fairweight Standard Scale Co.
*Holmes, Robert & Bros. (Inc.)
DECATUR—*Beall Improvement Co. (Grain Cleaning & Corn Mill Machy., etc.)
*Bold, Wm. M. (Machinist)
*Brett, Wm. P. (Machinist)
*†Central Malleable Iron Co. (Malleable Iron Castings)
*Chambers – Bering – Quinlan Co. (Agt. Implts.)
*Curtis Motor Truck Co. (Car Wheels, Axles & Car Trucks)
*†Decatur Foundry, Furnace & Machine Co. (Catch Basins, Hot Air Furnaces, etc.)

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*†§Faries Mfg. Co. (Hdw. Specialties, etc.)
*Hartley, C. J. Co. (Grain Weighers, etc.)
*§Mueller, H. Mfg. Co. (Drilling & Tapping Machines, Brass Fdrs. & Plumbing
*Oakes, W. L. (Engines, etc.) Gas)
*†**UNION IRON WORKS (Inc.)** (Agr'l Implts., Flour Mill Mach'y, etc.), 630 E William. (See adv. index, end of book)
*Williams Mfg. Co. (Corn Planters, etc.)

**DE KALB**—*†Haish, Jacob Co. (Barb Wire & Agricultural Implements)
*†Standard Foundry & Mfg. Co.

**DIXON**—*Clipper Lawn Mower Co. (Gasoline Engines, Lawn Mowers, etc.)
*†Grand Detour Plow Co. (Agrl. Implts., Plows, etc.)

**DOWNERS GROVE**—*Dicke Tool Co. (Linemen's Construction Tools, etc.)

**DU QUOIN**—*†Blakeslee Mfg. Co. (Steam Pumps, etc.)

**DWIGHT**—*†Spencer, J. A. (Hay Presses, etc.)

**EAST MOLINE**—*Midland Motor Co. (Automobiles)
*†Marseilles Mfg. Co. (Agrl. Implts., etc.)
*Moline Automobile Co. (Automobiles, Motors, etc.)
*†§Moline Scale Factory (Platform & Wagon Scales, etc.)
*†Root & Van Der Voors Engineering Co. (Gas, Hoisting, Stationary Engines, etc.)
†Union Malleable Iron Co. (Malleable Castings)
*†Walsh Brake Shoe & Foundry Co. (Brake Shoes, etc.)

**EAST ST. LOUIS**—†American Steel Foundries Co. (See N. Y. City)
†American Steel Foundries Co. (See N. Y. City)
*†American Car & Foundry Co. (See St. Louis, Mo.)
*East St. Louis Locomotive & Machine Shop Co. (Locomotives & Steam Shovels, etc., Rebuilt)
*Economy Machine & Forging Co.
*Ellicott Frog & Switch Co. (Frogs, Switches, Railroad Specialties, etc.)
*†Excelsior Tool & Machine Co. (Band & Angle Iron Brake)
*MacGowan & Finnigan Fdy. & Machine Co. (See St. Louis)
*†Marseilles Mfg. Co. (Agr'l Implts., etc.)
*Missouri Bridge & Iron Co.
*†§Missouri Malleable Iron Co. (Malleable Iron Castings)
*Railway Steel Spring Co.
*St. Louis Bed & Mfg. Co. (Iron & Brass Beds)
*St. Louis Rail & Equipment Co. (Railway Supplies)
*St. Louis Steam Forge & Iron Works
*†Standard Railway Equipment Co.
*Standard Railway Equipment Co. (See St. Louis, Mo.)
*Swift & Co. Car Shops
*†Symonds, Alfred F. (Registers)

**EDWARDSVILLE**—*Bignall & Keeler Mfg. Co. (Pipe Cutting, Threading & Shaping Machinery)
*Desmond Mfg. Co.
*Dunstedler, J. (Machinist)
*§Edwardsville Brass Co. (Brass Fdrs. & Plumbers' Brass Goods)

**EFFINGHAM**—*Alt, Fred

**ELDORADO**—*†Clark & Williams (Fdrs. & Machinists)

**ELGIN**—*Elgin Brass & Electrical Mfg. Co. (Gas & Electric Fixtures)
*†Elgin Mfg. Co. (Cream Separators, etc.)
*Elgin Metal Novelty Co.
*Elgin National Watch Co. (Watches & Metal Cases)
*Elgin Tool Works (Machinery, Tools, etc.)
*Elgin Wind Power & Pump Co. (Windmills & Pumps)
*Jones Refrigerating Co. (See Chicago, Ill.)
†Hasty Mfg. Co.
*§Moody, Chas. J.
*Moseley Lathe Co. (Bench Lathes)
†Western Casket Hardware Co. (Casket Hdw., etc.)
*†Woodruff & Edwards Co. (Coffee Mills & Grey Iron Castings, etc.)

**ELSA**—*†Larimer Mfg. Co. (Hdw. Specialties, etc.)

**EVANSTON**—*†Comstock, A. S. (Air Pumps, Gas Forges, etc.)
*†Mark Mfg. Co. (Artesian & Tabular Well Specialties, etc.)

**FAIRFIELD**—*Heidinger, Frank (Machinist)

**FILLMORE**—*Whitten & Ludewick

**FRANKLIN PARK**—*Franklin Park Foundry Co. (Malleable Iron Fdrs.)

**FREEPORT**—*†§**ARCADE MFG. CO.** (Molding Machines & Hardware Specialties, etc.) (See adv. index, end of book)
§Freeport Brass Works (Brass Castings)
*†Freeport Gas Machine Co. (Gas Engines,
*Freeport Motor Mart (Jobbing) etc.)
*Hoefer Mfg. Co. (Machine Tools, etc.)
*Jastram, Fred'k (Gasoline)
*Kochsmeier, H. P. (Jobbing)
*Nieman, C. H. (Jobbing)
*Ritchie & Lukemann (Jobbing)
*Schofield & Co. (Potato Planters, etc.)
*†Stover Engine Works (Gasoline Engines) Engines, Castings, etc.)
*†Stover Mfg. Co. (Hdw. Specialties, Windmills, Pumps & Light Grey Iron Castings, etc.)
*†Woodmanse Mfg. Co. (Pumping & Power Steel & Wooden Windmills & Iron & Brass Fdrs.)
*§Ziegler-Schreyer Mfg. Co. (Gasoline Engines, Grey Iron Castings, Windmills, etc.)

**FULTON**—†Mississippi Valley Stove Works (Stoves, etc.)

GALENA—*†§Galena Iron Works Co. (Iron Founders & Mining Machinery, etc.)
*†Westwick, Jno. & Son (Machinists & Fdrs.)

GALESBURG—*Chicago Writing Machine Co. (Typewriters, Adjustments, etc.)
*†Colton, G. D. & Co.
*†Frost Mfg. Co. (Steam Engines, Boilers, Dry Pans, etc.)
*†Galesburg Machine Works (Grey Iron Castings & Jobbing Machinists)
†Galesburg Malleable Castings Co. (Malleable Iron Castings)
*May Bros. (Windmills, etc.)
§Merrick, J. A. (Aluminum & Brass Castings)
*Robson Mfg. Co. (Special Machinery, etc.)
*†Walton-Van Huffel Mfg. Co. (Grey Iron Castings & Jobbing Machinists)
*†Wenzelmann Mfg. Co (Farm Elevators & Wagon Dumps)

GALVA—*†Collinson, Frank J. (Fdry. & Machinists)
*†Hayes Pump & Planter Co. (Pumps, Cultivators, Planters, etc.)
*†Mulford Heater Co. (Steam Heaters & Corn Planters)
*†Wistrand Mfg. Co. (Pumps, Corn Planters, etc.)

GENEVA—*Burgess-Norton Mfg. Co. (Hdw. Specialties, etc.)
*†Geneva Foundry & Machine Co. (Mining Machinery)
*†Howell, W. H. Co. (Sad Irons, etc.)

GENOA—*Eureka Electric Co. (Telephones, etc.)

GIBSON CITY—*†Gibson Iron Works (Radiators & Iron Fdrs.)
*Roth & Augspurger (Heavy Machy., etc.)

GRAFTON—*Rippley Hardware Co. (Steam Feed Cookers, Sprayers & Metal Boats)

GRANITE CITY—*†American Steel Foundries (Steel Cars, Trucks & Castings). (See Chicago, Ill.)
*†Commonwealth Steel Co. (Steel Castings, Car Tracks, etc.). (See St. Louis,
*Hoyt Metal Co. Mo.)
*Lile & Williams
*National Enameling & Stamping Co. (See New York City)

GREENVILLE—*Kruger, P. J. (Machinist))

HARVARD—*†Hunt-Helm-Ferris & Co. (Haying Tools, etc.)

HARVEY—*American Stove Co. (of St. Louis), Stoves, Steel Ranges, etc.)
*Austin Mfg. Co. (See Chicago.)
*Bliss & Laughlin (Key Seating & Shafting)
*†§Buda Co. (See Chicago)
†Enterprise Foundry Co. (Iron Castings & Machinists & Pattern Makers)
†Koch Bros.
*†**WHITING FOUNDRY EQUIPMENT** Co. (Fdry. Equipments, Electric Cranes, etc.) (See adv. index, end of book)

HAVANA—*Crescent Forge & Shovel Co. (Shovels, etc.)
*†Havana Mfg. Co. (Gas Engines, etc.)
*†Havana Metal Wheel Co. (Metal Wheels, Plow Shares, Cultivators, Shovels, etc.)
*Schmidt & Harsman

HIGHLAND—*Leutwiler Bros. (Machinists)

HINCKLEY—*Davis, L. E.

HOOPESTON—*†Sprague Canning Machinery Co. (See Chicago.)

JACKSONVILLE—†Bambrook, A. W.
*Illinois Steel Bridge Co.
*†C. P. & St. Louis Railway Shops
*Kellogg Bros. & Co. (Machinists)

JOLIET—*Adams Steel & Wire Works (Archl. Iron Work, etc.)
*†Bates Machine Co. (Steam Engines & Wire Mill Machy., etc.)
*†Buckeye Engine & Foundry Co. (Gas & Gasoline Engines, etc.)
*†Champion Machinery Co. (Bakers' Machinery, etc.)
*Ditto, G. M. (Agrl. Implements)
*Hardy, Wallace L. (Machinist)
*Humphrey & Sons (Wire Mill Mchy.)
*†Illinois State Prison
*†§Illinois Steel Co. (See Chicago)
*Joliet Bridge & Iron Co.
*†Joliet Mfg. Co. (Corn Shellers, etc.)
*Joliet Railway Supply Co. (Brake Beams, Side Bearings, etc.)
*Monahan Bros. (Inc.)
*Moore Bros. Co. (Hot Air Furnaces, etc.)
*†§Pratt, Wm. E. Mfg. Co. (See Chicago)
*Taylor Husker & Shredder Co. (Huskers & Shredders, etc.)
*Van Fleet Mfg. Co.
*†Western Steel Car & Foundry Co. (See Chicago, Ill.)

KANKAKEE—*†Beaumont Valve & Hydrant Works (Valves, Hydrants, etc.)
*†Domestic Sewing Machine Co. (See Chi-
†Kankakee Foundry Co. cago, Ill.
†Kankakee Mfg. Co. (Grey Iron Castings)
*Pratt, Edwin
*Soper, Geo. E.
*Tait Mfg. Co. (Machy., etc.)

KEWANEE—*Demmler, Wm. & Bros. (Foundry Plant Machy., etc.)
*†**KEWANEE BOILER CO. (Heating Apparatus.)** (See adv. index, end of book)
*Kewanee Water Supply Co. (Gasoline Engines)
*†Peters Pump Co. (Agrl. Implts., Pumps, etc.)

LADD—*Erickson, Andrew L.

LA SALLE—*La Salle Machine & Tool Co. (Presses, Grinders, etc.)
*Western Clock Mfg. Co. (Clock Mfrs., etc.)

LEROY—*Jones, Chas. D. (Machine)

LIBERTYVILLE — *Laycock, Wm. Co. (Engines, etc.)

LINCOLN—*Cottingham, Wm. S.
*†Iles, Edw.
*Mohn, H. & Son (Machinists)
*Moos, Jno., Sr.

LITCHFIELD—*†American Radiator Co. (See Chicago)
*†§Litchfield Fdry. & Machine Co. (Machinery & Grey Iron Castings)

LOCKPORT—*†Barrows Lock Co. (Bldrs.' Hardware & Specialties)

McHENRY—*Engeln, M. & Son

MACOMB—*†Fisher, Arch. (Fdry. & Machinist)

MADISON—*†American Car & Foundry Co. (See St. Louis, Mo.)

MARENGO—*†Marengo Foundry & Machine Co. (Gas Engines, etc.)

MARION—*Crain, Benj.

MAROA—*Maroa Mfg. Co. (Agrl. Implts., Cultivators, Car Loaders, etc.)

MARSEILLES—*Goodell, J. H. & Son
*Marseilles Harrow Mfg. Co. (Harrows, etc.)
*†Swanson Mfg. Co. (Agrl. Implts., etc.)

MARTINSVILLE—*Rowe, M. A. (Machinist)

MASCOUTAH—*Liebig, H. J.
*Schnebelin, Fred (Jobbing)

MATTOON—*†Chuse Engine & Mfg. Co. (Engines, Fdrs., Machinists, etc.)
*Thatcher, Jas. A. & Sons

MENDOTA—*Black Bros.' Machinery Co.
*†§Mendota Mfg. & Transfer Co.
*Tower, J. D. & Sons Co. (Agrl. Implts.)

MOLINE—*†Barnard & Leas Mfg. Co. (Flour Mill & Grain Elevator Machy.)
*Borg & Beck (Woodworking Machy.)
*Central Machine & Metal Co.
*†Cooper, H. W. Saddlery Hdw. Mfg. Co. (Saddlery, Hdw. & Grey & Malleable Iron Castings)
*†Deere & Co. (Inc.) (Agrl. Implts.)
*†Deere & Mansur Co. (Agrl. Implt. Mfrs.)
†Moline Foundry Co. (Grey Iron Castings)
*†Moline Plow Co. (Agrl. Implts., Plows,
*Moline Tool Co. (Gang Drills) etc.)
*Reynolds Pattern & Machine Co.
*§Schmidt, Henry (Brass Fdry & Finishers)
*§Schmidt, Joseph (Brass Fdry.)
*Sechler, D. M. Carriage & Implement Co. (Carriages & Agrl. Implts.)
*Velie Motor Vehicle Co. (Automobiles, etc.)
*†Williams, White & Co. (Inc.) (Heavy Machy.)

MONMOUTH—*†McIntosh Fdry. & Mach. Co.
*Milne Mfg. Co. (Stump Pullers, etc.)
*Monmouth Plow Co. (Plows, Cultivators, Harrows)

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*†Pattee Plow Co. (Agrl. Implts., Plows, etc.)
MORRIS—*†Coleman Hardware Co. (Door Hangers & Bldrs., Hdw., etc.)
*Ferguson, C. D.
MOUNT CARROLL—*Kneale & Kessler
MOUNT VERNON—*†Mount Vernon Car Mfg. Co. (Car Builders, Car Wheels, Castings, etc.)
MURPHYSBORO—*Fisher Slack Adjuster & R. R. Equipment Co.
*†Southern Illinois Machine & Fdry. Co. (Mine Ventilating Fans, etc.)
NAPERVILLE—*Goetsch, Frank S. & Son (Plows, etc.)
NEW ATHENS—*†Auto Stove Works (Stoves, etc.)
NOKOMIS—*Elvers, H. W. (Machine Shop)
NORTH AURORA—†Sperry, D. R. & Co.
NORTH CHICAGO—*Chicago Hardware Co. (Hardware Mfrs.)
*†§Chicago Hardware Fdry. Co. (Light Grey Iron, Brass & Aluminium Castings, etc., Gas Engines, etc.)
*North Chicago Machine Co. (Gas Engines, etc.)
O'FALLON—*†§Willard, Wm. G. (See St. Louis, Mo.)
OLNEY—*Remy, N. T. (Machinist)
OREGON—*American Lock Nut Co. (Lock-Nuts, etc.)
*Barden, J. A.
*†Oregon Fdry. & Mach. Co. (Molding Machines)
OTTAWA—*King & Hamilton Co. (Agrl. Implts., etc.)
*†Knowles Foundry & Machine Co. (Builders' Iron Work & Castings)
*†§Porter, J. E. Co. (Pumps, Haying Tools & Iron & Brass Castings)
PANA—*Progressive Mercantile & Mfg. Co. (Machinery Dies, etc.)
PARIS—*†§McGuire-Cummings Mfg. Co. (See Chicago)
*†Paris Foundry & Machine Co. (Baling Presses, etc.)
*†Reese, F. W. Foundry & Machine Co.
*Robertson, J. L., Machine Co.
PEKIN—*§Duisdicker Fdry. & Mfg. Co.
*†Pekin Engine & Machine Co.
*†Pekin Hdw. Co. (Hdw. & Farm Machy.)
PEORIA—*†Acme Harvesting Machine Co. (Agrl. Implts.)
*Armstrong, Jas. C. Fdry & Machine Co.
*†Avery Co. (Agrl. Implts., etc.)
*Bartholomew Co. (Coffee & Peanut Roasting Machines & Automobiles)
*§Brass Foundry & Heating Co. (Brass Fdrs. & Machinists)
*†Culter & Proctor Stove Co. (Stoves, etc.)
*Engel, J. A. & Co. (Agrl. Implts.)
†Excelsior Foundry Co. (Grey Iron Castings)
*Hagerty Bros. Co.
*†§Hart Foundry Co.
*Herschel, R. Mfg Co (Agrl Implts)
*Illinois Electrical Mfg. Co.
*Illinois Pump & Brass Co. (Pumps, etc.)
*†Kingman Plow Co. (Agrl Implts, Plows, etc.)
*§Kinsey & Mahler Co. (Steam Specialties & Brass Fdrs.)
*†Lucas, Adam & Sons (Iron Fdrs., Builders' Iron Work and Machinists)
*McAleenan Boiler Co (Boiler Makers' Machinery)
*Meyer Furnace Co. (Hot Air Furnaces & Founders, etc.)
*†Nichols & Shepard Co. (See Battle Creek, Mich.)
†O'Rorke & Co. (Iron Founders)
*Oltmanns, Schmidt & Co. (Ornamental Iron Work, Blacksmith, Machinist, etc.)
*†Peoria Drill & Seeder Co. (Agrl. Implts.)
†Peoria Foundry Co (Iron Fdrs, Bldrs' Castings, etc.)
*Schneider & Metzger (Machinists)
*Smith, E. M. & Co.
*Tichenor, F. C. (Tools, etc.)
*Turnbull, W.
*Wantling Mfg. Co. (Coal Drills)
*Whittemore, C. & Son
*Wright Machine Co (Threshing Machines, Saw Mills, Etc.)
PERU—*†Brunner Foundry & Machine Co. (Gas Engines, Scales & Castings)
*Peru Plow & Wheel Co. (Agrl. Implts., Plows, etc.)
PINCKNEYVILLE—*†Eaton Plow Works (V. A. Stookey & Son, Props. (Plow Mfrs. etc.)
PLANO—*†Independent Harvester Co. (Agricultural Implts., Iron Castings, etc.)
*†Sears, A. H. Co. (Agrl. Implts., etc.)
PONTIAC—*†Spartan Mfg. Co. (Grey Iron Castings, Feed Mills, etc.)
PRINCETON—*Evans, Coppins & Starks Co. (Ball Bearing Axles, etc.)
PROPHETSTOWN—*Eclipse Lawn Mower Co. (Lawn Mowers, etc.)
QUINCY—*Barmier, B. (Machinist)
*†Bush, Clement (Metal Wheels & Castings)
*†§**CENTRAL IRON WORKS (Tumbling Mills, Castings, etc.)** (See adv. index, end of book)
*Chadwick, J. S. (Jobbing)
*†Channon-Emery Stove Co. (Stoves, etc.)
*Collins Plow Co. (Agricultural Implts.)
*†Comstock-Castle Stove Co. (Stoves & Ranges)
*†**ELECTRIC WHEEL CO.** (Metal Wheels, Cars, Carts, etc.). (See adv. index, end of book)
*Empire Mfg. Co. (Metal Wheels)
*Ertel, Geo. Co. (Hay Presses, etc.)
*†Excelsior Stove & Mfg. Co. (Stoves & Ranges)
*†§**GARDNER GOVERNOR CO.** (Air Compressors, Steam Pumps, etc.) (See adv. Index, end of book)
*†Gem City Stove Mfg. Co. (Stoves, Heaters & Furnaces)
*Hollister-Whitney Co. (Elevators, Power Transmissions, etc.)
*Kurz Machine Co.
*†Lahan Stove & Mfg. Co. (Stoves, etc.)
*†Leader Foundry & Machine Co. (Grey Iron & Bldrs.' Castings)
*†**LITTLE, J. R. METAL WHEEL** Co. (Steel Wheels for All Purposes). (See adv. index, end of book)
*Massie, S. B. & Son (Jobbing)
*†Modern Iron Works (Plumbers' Cast Iron Specialties, Pumps, etc.)
†Orinda Stove & Mfg. Co. (Stoves, Ranges, etc.)
†Quincy Casting Co.
*Quincy Elevator Gate Co. (Elevator Gates, etc.)
*†Quincy Foundry & Novelty Co. (Stoves, etc.)
*†Quincy Stove Mfg. Co. (Stoves)
§Reese, W. J. Brass Fdry.
*†Sheridan Stove Mfg. Co. (Stoves)
*Travilla, M. (Stoves, etc.)
*§Van Doorn Co. (Ornamental Iron & Brass Work & Brass Castings)
*†White, Thos. Stove Co. (Stoves)
*Wiebmer, Anton (Jobbing)
ROBINSON—*Warren Machine Co. (Oil Well Machinery, etc.)
ROCHELLE—*Billmire Bridge & Iron Works Co.
†Whitcomb, Geo. D. Co. (Mining Mach'y, Stopcock Valves, etc.)
ROCK FALLS—*Eureka Co. (Working Machines)
*†International Harvester Co. (Keystone Works). (See Chicago)
*†Sterling Mfg. Co. (See Sterling, Ill.)
*Ulrich Mfg. Co. (Agrl. Implts.)
ROCKFORD—†American Foundry Co. (Grey Iron Castings)
*Andrews Wire & Iron Works
*Atwood Vacuum Cleaner Co. (Vacuum Cleaners)
*Automatic Lock Nut Co. (Lock-Nuts)
*†Barber-Colman Co. (Textile Machinery, Milling Cutters, etc.)
*Barnes Drill Co. (Machine Tools)
*†Barnes, W. F. & Jno. Co. (Mach. Tools & Woodworking Mach'y)
*Billstrom, Nels J. (Gluing Clamp Corners, etc.)
*Burson Mfg. Co. (Knitting Machines)
*Dickenson, H. G. (Jobbing Machinist)
*†Dobson Mfg. Co. (Creamery Supplies & Brass Castings)
*Eclipse Gas Stove Co. (Gas Stoves & Ranges)
*†Emerson-Brantingham Co. (Agrl. Implts., Mowers, Plows, Cultivators, etc.)
*Forest City Bit & Tool Co. (Boring Tools, etc.)
*†Free Sewing Machine Co. (Sewing Machinery)
*†Greenlee Bros. & Co. (See Chicago)
*Houston Mfg. Co. (Vacuum Cleaners)
*†Illinois Sewing Machine Co. (See Chicago)
*Ingersoll Milling Machine Co. (Mach. Tools)
*†Love, M. A. Mfg. Co. (Pumps, Castings, etc.)
*Marsh, H. C. Co. (Mitre Machines, etc.)
*Mechanics Machine Co. (Machine Tools)
*National Lock Co. (Locks & Furniture Hardware)
*Redin, Eckstrom & Co. (Piano Action Machinery, etc.)
*Redin, Jno. E. (Light Mach'y & Tools)
*§Rockford Brass Works (Plumbers' Brass Goods, etc.)
*†Rockford Drilling Machine Co.
*Rockford Engine Works (Machine Tools, Gasoline Engines, etc.)
*†Rockford Iron Works (Power Presses)
*Rockford Lathe & Drill Co. (Machine Tools)
*Rockford Machine Tool Co. (Machine Tools, etc.)
*†Rockford Malleable Iron Works (Inc.)
*†Rockford Mfg. Co. (Agrl. Implts., Plows, Harrows, etc.)
*Rockford Milling Machine Co. (Hand Miling Machines)
*Rockford Tool Co. (Bench Tools)
*Rockford Watch Co. (Watches, etc.)
*Savage & Love Co. (Jobbing, etc.)
*Spengler Bros. Co. (Machinists & Special Machinery
*†Trahern Pump Co. (Pump, Castings, etc.)
*†Union Foundry & Machine Co. (Grey, Iron Castings, etc.)
*†Ward Pump Co. (Pumps, Castings, etc.)
*Wessman Tool Co. (Boring Tools, etc.)
*Woodward Governor Co. (Water Wheel Governors, etc.)
ROCK ISLAND — *BLAKE SPECIALTY Co., 2412 3d av. (See adv. index, end of book)
*Davis, Thomas B.
*Electrical Construction & Machinery Co.
*†Kuhner Engine & Machine Co. (Gasoline Engines)
*Rock Island Machine Shop
*†ROCK ISLAND MFG. CO. (Grey Iron Castings, Bench Vices, etc.). (See adv. index, end of book)
§Rock Island Metal Foundry (Aluminum, Brass & Bronze Castings)
*†Rock Island Plow Co. (Plows, Cultivators, Harrows, Planters, etc.)
†Rock Island Stove Co. (Stove Mfrs.)
*Schott, Wm. G.
*Twin City Die & Tool Works
*§U. S. Arsenal (Fdry. Dept.)
†Walsh Brake Shoe & Foundry Co. (Brake Shoes)
ROSELLE—*Becker & Leiseberg
RUSHVILLE—*Rushville Machine Works
ST. CHARLES—*§Crown Electrical Mfg. Co. (Chandeliers, Bicycle Chains, etc.)
*Doig File Co. (Files, etc.)
*Faultless Mfg. Works (Steel Ranges, etc.)
*†§Glenn Mfg. Co. (Soil Pipe, etc.)
†Moline Malleable Iron Co
*Switzer, W. R. (Machinist)
SALEM—*Merz, John & Son
SANDWICH—*†Enterprise Windmill Co.
*Hinman, D. A. & Co. (Angle Benders, etc.)
*Sandwich Electric Co. (Electrical Specialties)
*†Sandwich Mfg. Co. (Agrl Implts, Harvesters, Mowers, etc.)
*Sandwich Pole-Changer Co. (Electrical Instruments, etc.)
SAVANNA—*Oyster, L. A. (Agrl. Implts.)
SHAWNEETOWN—*†Quick, James A.
SHELBYVILLE — *Sturgis, W. B. & Son
SHELDON—*Harris, F. F. (Plows, etc.)
SIDELL—*Cross & Parham
SOMONAUK—*California Windmill Co.
SPARTA—*Little Giant Punch & Shear Co.
*Sproul, Matt. (Punches, Shears, etc.)
SPRINGFIELD—*Ansell, Oscar (Machinist)
*Bleser, Jacob (Machinist)
†Farris, Joseph
*Fetzer, Wm. Co. (Agl. Implts., etc.)
*Hass, R. Electric & Mfg. Co. (Electrical Supplies, etc.)
*Heineke & Co. (Inc.) (Straw Stackers, etc.)
*Hummer Tool & Mfg. Co. (Special Mchy.)
*†Ide, A. L. & Sons (Steam Engines, etc.)
*Illinois Watch Co. (Watches, etc.)
*Lourie Mfg. Co. (Hydraulic Tire Setters)
*Mussillon, J. A. & Bro.
*Otto & Scherf.
*Racine-Sattley Co. (See Racine, Wis.)
*†§Springfield Boiler & Mfg. Co. (Dredging Mach'y)
*†Springfield Bridge & Iron Co.
*Springfield Harrow Co.
*Young & Murphy
STERLING—*Bauder, Ervin (Machinist)
*Carolus Mfg. Co. (Bolt & Nut Cutters)
*†Charter Gas Engine Co (Gas Engines)
*Lawrence Bros. (Door Hangers, Hardware, etc.)
*Meister & Cochran (Radiators, etc.)
*National Mfg. Co. (Builders' Hardware, etc.)
*†Novelty Iron Works (Grey Iron Castings, Fountains, etc.)
*†Sterling Foundry Co. (Castings & Hdwe. Specialties)
*Sterling Machine Works (Power Hammers, etc.)
*†Sterling Mfg. Co. (Agrl. Implts.)
*Sterling Pattern Works (Corn Planters)

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STREATOR—*Crawford Locomotive & Car Co. (Steel Car Underframes & Steel Cars Rebuilt)
*G. & D. Mfg. Co. (Portable Grain Elevators, Hardware Specialties, etc.)
*Graves, L. L. (Jobbing)
*†Patch, S. B. & Sons Co.
*Streator Motor Car Co. (Motor Cars)
SYCAMORE—*†§Turner Brass Works (Vending Machines, Castings of all kinds, Brass Specialties, etc.)
TAMPICO—†West, De Witt
TAYLORVILLE—*Baughman, S. E. & Sons (Agrl. Implts.)
*Hollis, N. F. (Machinist)
TINLEY PARK—*Boldt, George
TRENTON—*Leutwiler, John H.
URBANA—*C. C. C. & St. Louis R. R. Shops
*†§Leavitt Mfg. Co. (Cattle Dehorners, Lawn Mowers, etc.)
VANDALIA—*†Craycroft, Benj. (Brick Machy. & Fdry.)
VAN ORIN—*Zimmerline, (Pumps, etc.)
VERMILION—*Downing, Thos. D. & Co.
WATSEKA—*†Henderson, Wm.
WAUKEGAN—*†American Steel & Wire Co. (See Chicago, Ill.)
*Chicago Recording Scale Co. (Piano Motors, Novelties, etc.)
*Nelson, Nicholay
*§Northern Brass Mfg. Co. (Plumbers Brass Goods)
WEST CHICAGO — *Chicago Crossing Co. (Crossings, etc.)
WINTHROP HARBOR—*Willard, Chas. P. & Co. (Marine Engines, etc.)
WOODSTOCK—*Abbott, C. T.
*Griebel, E. G. (Machinists)
*Oliver Typewriter Co. (See Chicago)
XENIA—*Peirce, Jno A. (Machinist)

## INDIANA.

ALEXANDRIA—*†American Steel Wheel Co. (Steel Wheels, etc.)
ANDERSON—*Anderson Computing Scale Co. (Computing Scales, etc.)
*†Anderson Foundry & Machine Works (Tin & Brick Machinery & Castings)
*Anderson Knife & Bar Co.
*Anderson Tool Co.
*†Buckeye Mfg. Co. (Engines, etc.)
†Frazier Stove Co. (Stoves)
*Hardware Specialty Mfg. Co. (Hdw. Specialties, etc.)
*†§Hill Machine Co. (Pumping Machinery)
*Jenney Electric Mfg. Co. (Dynamos & Motors)
*Lambert Gas & Gasoline Engine Co. (Engines & Well Machinery, etc.)
*§Lavelle Foundry Co. (Brass Fdrs.)
*Reliable Machine Co. (Machinists)
*Remy Electric Co.
*Reynolds Gas Regulator Co. (Gas Regulators)
*Westerfield Motor Co.
ANGOLA—*Angola Engine & Foundry Co. (Gasoline Engines)
*†Cary, Chas. (Machinist & Founder)
*United Machine Co. (Ice & Refrigerating Machines)
ATTICA—*Attica Bridge Co. (Bridge & Steel Structural Work, etc.)
*†National Car Coupler Co. (See Chicago, Ill.)
AUBURN—*Auburn Automobile Co. (Automobiles, etc.)
*Standard Mfg. Co. (Cigar Lighters, Cheese Cutters, etc.)
*Zimmerman Mfg. Co. (Windmills, Pumps, etc.)
AURORA—*Aurora Tool Works (Milling Machines, Upright Drill Presses, etc.)
*Cheek, M. B.
*Stamm Machine Works (Stave Rejoiners & Woodworking Machinery)
*†Stedman's Foundry & Machine Works (Crushing & Pulverizing Mach'y)
BEDFORD—*†Bedford Fdry & Machine Works
BERNE—*Moser, A. J. & Co. (Inc.)
BLOOMFIELD—*†Bloomfield Mfg. Co.
*Star Jack Co. (Jacks, etc.)
*Union Jack Co. (Jacks, etc.)
BLOOMINGTON—*†§Seward & Co.
BLUFFTON—*†§Grimes Co. (Engines & Fdry., etc.)
*†§Red Cross Mfg. Co. (Windmills, Well Tools, etc.)
BOONVILLE—*†Boonville Foundry & Machine Co.
BRAZIL—*†Crawford & McCrimmon Co. (Machinists' & Founders' Clay Working & Wire Fence Machinery, etc.)
*Shaw, Wm. M. Co. (Machinists)
*Wood Turret Machine Co. (Machine Tools, etc.)
BREMEN—*†Holland Radiator Co. (See Chicago, Ill.)
*May, William (Machinist)
BUTLER—*†Butler Co. (Windmills, Wind Engines, Pumps, etc.)
CAMBRIDGE CITY—*Bertsch & Co. (Punching & Shearing, Mach'y, etc.)
*National Drill Co. (Cultivators, Grain Drills, etc.)
*†Scott Stove & Furnace Co.
CANNELTON—*†Cannelton Iron Works
CARTHAGE—*Butler Mfg. Co.
CICERO—*Arduser Bros.
COLUMBIA CITY—*Columbia City Machine Works
*Lawrence, John F.
COLUMBUS—*†Caldwell & Drake Iron Works (Iron Fdrs. & Bldrs. Iron Work)
*Columbus Machine Works
*†§Reeves & Co. (Agrl. Implts., Saw Mills, etc.)
CONNERSVILLE—*Ansted Spring & Axle Co. Carriage & Wagon Axles & Springs, etc.)
*†Connersville Blower Co. (Pumps, Rotary Blowers, etc.)
*†Roots, P. H. & F. M. Co. (Pumps & †Smith Stove Co. Rotary Blowers, etc.)
§Stant, Geo. Machine Works (Hardware Specialties & Brass & Bronze Castings)
*Triumph Safe & Lock Co. (Bank Vaults, Safes, etc.)
*Wainwright, W. W. & Son (Gas Engines,
CONVERSE—*†Fink, A. W. etc.)
CRAWFORDSVILLE—*Birch & Birch (Speed Drills, Mach Box Machinery, etc.)
*Crawfordsville Wire & Nail Co.
*†Lyle & Reynolds
DECATUR—†Decatur Furnace Co.
DELPHI—*Delphi Machine Co.
DUBLIN—*Morgan, E. S. (Machinist)
DYER—*Batterman, Henry C.
EAST CHICAGO—*†Famous Mfg. Co. (Hay Presses & Gasoline Engines)
*†Goodman Mfg. Co. (Electric & Mining (Machinery, etc.); (See Chicago, Ill.)
*Graver, Wm. Tank Works
*†Green Engineering Co. (See Chicago, Ill.)
*Hubbard Steel Foundry Co. (Steel Castings, etc.)
ELKHART—*Angldile Computing Scale Co. (Scales)
*Automatic Heat Regulator Co. (Heat Regulators, etc.)
*Buescher Band Instrument Co. (Band Instruments, etc.)
*Cable Machine & Tool Co. (Repairs, etc.)
*Chicago Telephone Supply Co. (Telephone Supplies)
§Conn, Chas. G. Co. (Band Instruments)
*Davis Acetylene Co. (Gas Machines, etc.)
*§Elkhart Brass Mfg. Co. (Brass Goods for Fire Departments, Plumbers, etc.)
*Elkhart Bridge & Iron Co.
*Foster Machine Co. (Lathes, etc.)
*†Forward Bros.
*†Kibbe-Workinger Co.
*Kuhlman Elec. Co. (Electrical Specialties)
*†§L. S. & M. S. Ry. Shops
§Northern Indiana Brass Works (C. Schweitzer, Prop.)
*Noyes Carriage Co. (Agrl Implts & Carriages)
*Strubler Computing Scale Co. (Computing Scales)
*Warren, G. B.
*Waterson, J. C.
§Williams Brass Foundry
ELWOOD—*†Dawson, Chas. (Machinist & Founder)
*†Elwood Iron Works
*Elwood Lawn Mower Co. (Lawn Mowers)
EVANSVILLE—†Advance Stove Works (Stoves, etc.)
*Bernardin Bottle Cap Co. (Bottlers' Machinery)
*Blount Plow Works (Agrl. Implts., Plows, etc.)
*†Carmody, J. D. (Boilers, Steam Heaters, etc.)
†Crescent Stove Works (Stoves, etc.)
*†Davidson & Dietrich Plow Co. (Plows
§Evansville Brass Works & Castings)
†Evansville Metal Bed Co.
*†Evansville Stove Works (Stoves, Ranges & Hollow Ware)
*†Evansville Tool Works (Axes, Hammers, Picks & Castings, Steel)
*†Grote Mfg. Co. (Iron Fdrs., Bldrs., Iron Work, etc.)
*Hartig-Becker Plow Co. (Plows, Cultivators, etc.)
§Healey, Peter (Brass Fdry.)
*†Heilman Machine Works (Engines, Saw Mills, Threshers, etc.)
*†§Holtz, Ferd, Co. (Iron Fdry., Saw Mills, etc.)
*†Indiana Stove Works (Stoves, Ranges & Hollow Ware)
*†Mesker, Geo. L. & Co. (Iron Fdrs & Bldrs Iron Work)
§Peerless Tank & Seat Works
*Smith, John C., Hoe & Tool Co. (Agrl. Implts., etc.)
*†Southern Stove Works (Stoves, Ranges & Hollow Ware)
*†Vulcan Plow Co. (Plows, etc.)
FORT BRANCH—*†Lintz Bros.
FORT WAYNE—*Adams-Taylor Machine Co.
*†Bass Foundry & Machine Co. (Corliss Engines, Forgings, Iron & Steel, Castings, Grey Iron, Car Wheels, etc.)
*American Steel Dredge Co. (Dredges & Steam Shovels)
*Bowser, S. F. & Co. (Oil Tanks & Pumps, etc.)
†Central Foundry Co. (Window Weights, etc.)
*Deister Concentrator Co. (Mining Machinery)
*§Fort Wayne Electric Works (Dynamos, Motors, etc.)
*Fort Wayne Engineering & Mfg. Co. (Pumps, etc.)
*Fort Wayne Foundry & Machine Co. (Engines, Saw Mills, etc.)
§Fort Wayne Smelting & Refining Works
*Hanna Brackenridge Co. (Machinists)
§Hattersley, A. & Sons
*Horton Mfg. Co. (Agrl. Implts., Corn Planters, etc.)
*Indiana Road Machine Co. (Road Making Machinery, etc.)
*†Kerr-Murray Mfg Co. (Gas Works Apparatus & Mach.
Knott-Van Arnam Mfg. Co. (Plumbers' Supplies, etc.)
*§Kunkle, E. B. & Co. (Brass Fdrs. & Machinists, Safety Valves, etc.)
†§Menefee Foundry Co. (Iron Fdrs.)
*Stenger, Peter
*Wayne Oil Tank & Pump Co.
*†Western Gas Construction Co. (Gas Works Apparatus & Mach'y)
FOWLER — *Navity-Sleeper Co. (Ignition Magnetos, etc.)
FRANKFORT—*§Frankfort Brass Mfg. Co. (Radiator Valves, Unions, etc.)
*Model Machine Works (Machinists)
*Smith, Orlando B.
*Toledo, St. Louis & Western Ry. Shops
*†Wallace Mfg. Co. (Brick & Drain Tile
FREMONT—*Ewing, James Mach'y)
GAS CITY—*†§American Sheet & Tin Plate
GENEVA—*Cross, W. D. Co.
GOSHEN—*Fuller, Otis L. (Slitting Shears, etc.)
*†Goshen Motor Works (Gasoline Engines, Launches, etc.)
*§Harwood, L. A. (Brass Foundry)
*†Kelly Foundry & Machine Co. (Boiler Fronts, Grate Bars, etc.)
*National Dairy Machine Co. (Dairy Machinery, etc.)
*Oswald Motor Co. (Gasoline Engines)
*Thomas-Albright Co. (Hydraulic Presses)
GREENCASTLE—§Cole Bros. Lightning Rod
GREENFIELD—*†§Abbott, J. R. Co.
GREENSBURG—*†Hilland, W.
*Luchte & Bowman Co.
HAGERSTOWN—*Light Inspection Car Co. (Light Inspection Cars, Gas Engines, etc.)
HAMMOND—*Betz, Frank Co. (Surgical & Dental Instruments)
*Champion Potato Machinery Co. (Potato Machinery)
*†Simplex Railway Appliance Co. (Car Bolsters, Roller Side Bearings, etc.)
*§Stewart Machinery Mfg. Co. (Special Machinery & Aluminum & Brass Castings)
*†United Boiler Heating & Foundry Co.
HARTFORD CITY—*Ford, Edwin H. (Meter Boxes, etc.)
HUNTINGTON—†Hensley Trolley Co. (Trolley Wheels, etc.)
*§Majestic Furnace & Foundry Co. (Hot Air Furnaces, Coal Chutes, etc.)
*Newcomb, C. E.
INDIANA HARBOR—*†American Steel Foundries (Inc.) (See Chicago, Ill.)
*Inland Steel Co. (See Chicago, Ill.)
*Standard Forging Co. (Rough Machine & Finished Forgings)
INDIANAPOLIS—§Acme Brass Foundry (Brass Castings)
*†American Car & Foundry Co. (See St.
*†American Foundry Co. Louis, Mo.)
*Atkins, E. C. & Co. (Saws, Tools & Mach'y), 402 S Illinois
*†Atlas Engine Works (Engines & Machy.)
*†§Brown-Ketcham Iron Works (Castings & Structural Steel Work)

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*Capital Gas Engine Co. (Gas Engines, etc.)
*Capital Machine Works, 502 S Penn
*Central Machine Works (Machinists & Portable Boring Bars, etc.), 240 W Henry
*Central States Bridge Co. (Steel Bridges, etc.)
*†Chandler & Taylor Co. (Engines & Saw Mill Mach'y, etc.)
*Climax Machy Co. (Farm & Dairy Machines)
*Dean Bros Steam Pump Works (Steam Pumps, Condensers, etc.)
*†Enterprise Foundry & Fence Co. (Grey Iron Castings)
*†§Fairbanks-Morse Electrical Mfg. Co.
†Frazer Stove Co. (Stoves, Ranges, etc.)
*Geiger & Peters Ornamental Iron Works (Archl. Iron Work, etc.)
*Green, Thos. L. & Co. (Bakers' Machy),
*Hall, Albert M. & Co. (Laboratory Mchy.)
*Hensley, Jas. W. (Clay Working Machy), Lemcke bldg
*†Hetherington & Berner Co. (Asphalt Machy & Foundry), 19 W South
*†Home Stove Co. (Stoves & Ranges)
*Howard, Michael E. (Machinist), 374 S Senate av
*†Indiana Brass & Iron Bed Co.
*Indiana Fan Co. (Blowers, Exhausters, Water Motors, Fans, etc.)
*Indiana Mfg. Co. (Straw Stackers)
*Indianapolis Excelsior Machinery Co. (Excelsior Machinery, etc.)
*†Indianapolis Foundry Co. (Light Grey Iron Castings, 151 Harding
*Indianapolis Lock Co. (Post Office Equip-
*†Indianapolis Stove Co. ments, etc.)
*Indianapolis Tool & Mfg. Co. (Special Machy., Tools & Dies), 518 S. Capitol av
*Insley Mfg. Co. (Concrete Dump Buckets, Hoists, etc.)
*†Inter-State Car Co. (Contractors, Cars & Repair Work)
*Kennedy, Patrick W., 1119 Beecher
*§Keyless Lock Co. (Post Office Equipments, etc.)
*Knight & Jillson Co. (Plumbing Specialties, etc.)
*†§Langsenkamp-Wheeler Brass Works (Brass Founders & Finishers)
*†Laycock, T. B. Mfg. Co. (Iron & Brass Bedsteads, etc.)
*†LINK BELT COMPANY (Ewart Works) (Main Office, Phila., Pa.) (See adv. index, end of book)
†McNamara-Koster Fdry. Co. (Grey Iron Castings), 408 S Penn
†National Malleable Castings Co. (See Cleveland, O.)
*†Noelke-Richards Iron Works (Builders Iron Work & Castings), 180 E. Palmer
*†§Nordyke & Marmon Co. (Flour Mill Machy, etc.)
†Over, Ewald (Grey Iron Castings), 426 S Penn
†Peerless Foundry Co. (Castings & Stove Repairs), 710 E Maryland
*§Pioneer Brass Works (Brass, Bronze & Aluminum Founders, Finishers & Plumbers' Goods), 418 S Penn
*Potter Mfg. Co. (Trench Machinery, etc.)
*†Potts, C. & A. & Co. (Clay Mach'y)
*Rexroth, Louis (Machinist), 144 S Delaware
*Roch, Tobias (Arch'l Iron Work, etc.), 225 E. Pearl
*†Rockwood Mfg Co. (Founders & Machinists), 1801 English av
*Russell Wind Stacker Co. (Straw Stackers), 1001 Shelby
*†Shirley Radiator & Foundry Co. (Radiators), Indiana Trust bldg
*Simon, Louis P. (Machinist), 371 S Meridian
*†Sinker-Davis Co. (Engines & Saw Mill Mach'y), 230 S Missouri
*Spacke, F. W., Machine Co. (Air Compressors, etc.)
*Standard Machine & Electric Co. (General Machinists), 33 W Chesapeake
JASPER—*†Jasper Machine Works
JEFFERSONVILLE—*American Vending Machine Co.
*†§Anderson, Geo. S. & Co. (Machine
*Bauer Machine Co. Work, etc.)
*†Indiana Mfg. Co. (Hollow Ware, etc.)
KENDALLVILLE—*Baker, J. R. & Sons Co. (Specialties)
*†Flint & Walling Mfg. Co. (Windmills, Engines, Pumps, etc.)
*Raber & Lang Mfg. Co. (Concrete Ma-
*†Wallace Mfg. Co. chinery)
KNIGHTSTOWN—*Albertson, E. J.
*Columbia Electric Co. (Automobiles, Telephones, etc.)
*Parrish, Alford Fence & Machine Co. (Fence Machines, etc.)
KOKOMO—*Apperson, Elmer
*Byrne, Kingston & Co. (Auto Accessories,
*Chandler, B. H. etc.)
*Ford, Chas. A.
†Globe Stove & Range Co. (Steel Ranges, etc.)
*§Kokomo Brass Works (Plumbers' Brass Goods)
*Kokomo Fence Machine Co. (Fence
*Rockford Bit Co. (Bits) Machinery)
*Walton & Macke (Wire Nail Machines)
LAFAYETTE—*Barbee Wire & Iron Works (Bldrs. Iron Work & Castings, etc.)
*Biggs, B. F. Pump Co. (Pumps, etc.)
*Duncan Electric Mfg. Co. (Electric Meters)
*Lafayette Fence & Machine Co. (Fence
*†McGrath, R. H. Machines)
*Motsinger Device Mfg. Co. (Auto Parts)
Ross Gear & Tool Co. (Tools, Auto Gears)
*†Schwab Safe & Lock Co. (Bank Vaults, Safes, etc.)
*Sterling Electric Co. (Telephone Supplies, etc.)
*†Wallace Machine & Foundry Co. (Castings, Manhole Covers, etc.)
LAPEL—*Wright, George (Gas Regulators, Pumps, etc.)
LA PORTE—*Gangwer & Roberts
*La Porte Gas Meter (Gas Meters)
†Niles & Scott Co. (Wheels, etc.)
*†Rumely, M. Co. (Engines, Threshers, Stackers, etc.)
LAWRENCEBURG—*†§Cook, A. D. (Steam Pumps, etc.)
LEAVENWORTH—*Jenner, John H.
LEBANON—*†Lebanon Foundry Co.
LIBERTY—*†Rude Bros. Mfg. Co. (Grain & Corn Drills, Cultivators, etc.)
LIGONIER—*Haney Gas Engine Co.
LOGANSPORT—*McAllister, E. A. (Jobbing, Mfrs.)
*Oberchain & Boyer (Boiler Cleaners, Fire Extinguishers, etc.)
*†§Western Motor Co. (Gasoline Motors, Brass & Grey Iron Castings)
MADISON—*†§Johnson Foundry & Machine Shops
*†Madison Machine Co. (Machinists)
*†Madison Stove Co. (Stoves)
MARION—*American Drill Co. (Grain Drills,
*Custer Mfg. Co. etc.)
*†Hoosier Stove Co.
*†§Hulley Foundry & Machine Works
†Marion Grey Iron Foundry Co. (Grey Iron Castings, etc.)
*Marion Iron & Brass Bed Co.
*†§MAHION MACHINE, FDR, & Supply Co. (Gas & Steam Engines, Repair Works & Brass & Iron Castings) (See adv. index, end of book)
*†§Marion Malleable Iron Works
*†Marion Stove Co. (Stoves)
*National Sweeper Co.
*Western Drop Forge Co.
MELTZER—*Meltzer, F. (See Chicago, Ill.)
MICHIGAN CITY—*Eichstaldt, Roman (Machinist)
*†§Haskell & Barker Car Co. (Car Bldrs., Brass, Steel, Grey & Malleable Iron Castings)
*Michigan City Iron Works (Machinery)
*Western Launch & Engine Works (Inc.) (Gasoline Engines, Launches, etc.)
MISHAWAKA—*Clark, Geo. C., Metal Last Co.
*†§Dodge Mfg. Co. (Power Transmitting Machinery)
*Landgraf Machine Co. (Machinists)
*Mishawaka Machine Co.
*Mishawaka Plow Co. (Plows, etc.)
*†Perkins Windmill Co. (Gasoline Engines, Pumps, Jacks, etc.)
MONTEZUMA—*Montezuma Machine Works
MONTPELIER—*†§Montpelier Cup & Metal Works (Flour Mill Machinery)
*†National Steel Casting Co. (Steel Castings, Car Couplers, etc.)
MOUNT VERNON—*†Keck, Gonnerman Co. (Iron Fdrs. Threshers, etc.)
MUNCIE—*†§American Lawn Mower Co. (Lawn Mowers & Castings)
*Broderick & Quinlan Mfg. Co. (Boilers, etc.)
*Carpenter, Albert (Engines, Boilers, etc.)
*Crozier, Cary (Gas Pumps & Engines,
*Dyer Bros. etc.)
*§Eagle Brass & Iron Foundry Co.
*Hanika, C. & Son Co. (Structural & Ornamental Iron Work)
*Indiana Steel & Wire Co.
*Kitselman Bros. (Inc.) (Fence Machines,
*†Machinists' Foundry Co. etc.)
*Meeks, J. Arthur (Scrap Shears, Special
*Moon Bros. Machinery, etc.)
*†Muncie Fdy. & Machine Co. (Gas House Mach'y, Castings, etc.)
*Muncie Gas Engine & Supply Co. (Gas Engines & Oil & Gas Well Supplies)
*§Murphy, Patrick (Castings)
*Warner Electric Co. (Electric Specialties)
*Warner Gear Co. (Gears, etc.)
*†Whitely Malleable Castings Co. (Steel & Malleable Iron Castings & Car Couplers, etc.)
†Whiteley Steel Co. (Steel Castings)
NAPOLEON—*Schleuter, Stephen
NAPPANEE—*Nappanee Iron Wks. (Punches, Shears, etc.)
NEW ALBANY—*American Hame & Mfg. Co. Machinery, etc.)
*†Anchor Stove & Range Co. (Stoves, etc.)
*†Gardner, S. J.
†Gohmann Bros. & Kahler Co. (Stoves, etc.)
*Goetz-Coleman Mfg. Co. (Gasoline En-
*†Hegewald, Chas. Co. gines, etc.)
*†New Albany Mfg. Co. (Stone Working Machy)
NEW CASTLE—*†Allen, B. F. & Son
*Carr, E. M. Pump Governor Co. (Pumps, Governors, etc.)
*Indiana Rolling Mill Co. (Machine Shop for Use of the Company)
*†New Castle Foundry Co. (Iron Fdrs., Grey Iron Castings)
*New Castle Machine Works (Machinists)
*Pan-American Bridge Co. (Bridge & Structural Steel Work, etc.)
*Safety Shredder Co. (Corn Shredders, etc.)
*Shopp, W. A. & Co. (Machinists)
NEW MOUNT PLEASANT—*Steed Bros.
NEW HARMONY—*Trethway, W. O.
NOBLESVILLE—*Hare, J. H.
*Never-Slip Clutch Co. (Friction Clutches, etc.)
*†Union Sanitary Mfg. Co. (Cast Iron Enameled Sanitary Ware)
NORTH MANCHESTER — *Manchester Mfg.
†Martin & Garwood Co. (Boiler Cleaners)
*†§Miller, Jesse E. (Pumps, etc.)
NORTH VERNON—*†§Hicks, Harry (Machinist & Fdry.)
OSGOOD—*†§King, H. P. Foundry & Machine Works
PERRYSVILLE—†Cummingore, H. S. & Son
PERU—*McAllister, Thos. H. (Stoves, etc.)
*Model Gas Engine Works (Gas & Gasoline engines, etc.)
*†Peru Foundry & Machine Co.
PLYMOUTH—*Clizbe Bros. Mfg. Co. (Tool Grinders, etc.)
*Keller & Jeffries (Machinists)
PORTLAND—*†Portland Foundry & Mach. Co.
PRINCETON—*Herschell, J. T.
RED KEY—*Fiers, W. T. (Pumps, etc.)
*†Runyan, B.
RICHMOND—*†American Seeding Machine Co. (Agr'l Implts.) (Hoosier Branch) (See
*†Border, G. S. Springfield, O.)
*Dille & McGuire Mfg. Co. (Lawn Mowers)
*Draver Bros. (Special Mach'y, etc.)
*Elliott & Reid Co. (Fence Machines, etc.)
*F & N Lawn Mower Co. (Lawn Mowers)
*†§Gaar, Scott & Co. (Threshing Mach'y, Traction Engines & Saw Mills, etc.)
*Gartside, W. N. (Fdry. Supplies, etc.)
*Henley, M. C. (Roller Skates, Boring Ma-
*Jones, J. E. ch'y, etc.)
*Kiser, Daniel (Machinist)
*Marlatt, Samuel (Machinist)
*National Automatic Tool Co. (Special Machinery, Drills, etc.)
*Quaker City Machine Co. (Jno. A. Evans, Propt.) (Ventilating Apparatus, etc.)
*Richmond Mfg. Co. (Carriage Lamps)
*Richmond Safety Gate Co. (Safety Gates, etc.)
*†§Robinson & Co. (Engines, Threshers, Beling Presses, Saw Mills, etc)
§Standard Pattern & Mfg. Co.
*†§Wayne Works (Agrl. Implts.)
ROCHESTER—*†§Ross Foundry & Machine Co.
ROCKPORT—*†Pfeifer, John C. (Fdry. & Mach)
RUSHVILLE—*Francis, Chas. E. & Bros.
*Long & Case Machine Co.
*†Scott-Madden Iron Works Co. (See St.
SALEM—*Bellows Bros. Louis, Mo.)
SARATOGA—*†§Harshman, John F. & Sons
SEYMOUR—*§Buhner, R. F.

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SHELBYVILLE—*†Shelbyville Fdry. & Machine Works
SHIRLEY—*†Shirley Radiator & Foundry Co. Radiators, etc.)
SOUTH BEND—§Bednarowicz, Teofil
*Birdsell Mfg. Co. (Clover Huers, Straw Stackers, Wagons, etc.)
*†Bowsher, N. P. Co. (Fdrs & Machinists)
*Clover Leaf Machine & Axle Co. (Concrete
§Fulton, F. H. Mixers, etc.)
*Haberle, John B. (Bolt Cutting Machines, Etc.)
*Ideal Concrete Machy. Co. (Concrete Block Machy)
*Iwan Bros. (Ditching Machines, etc.)
*Knoblock-Heideman Mfg. Co. (Electrical Mach'y & Specialties)
†Malleable Steel Range Mfg. Co. (Steel Ranges, etc.)
*Maurer, Wm. & Co. (Steam Specialties, etc.)
*†Meyer Foundry & Mfg. Co. (Street & Building Castings, etc.)
*†Oliver Chilled Plow Works (Plows, etc.)
*§Rockhoff Foundry Co. (Aluminum Castings, Crank Cases, etc.)
*†Schock Mach'y Co. (Power Drills, etc.)
*†Sibley Machine Tool Co. (Mach. Tools, Power Drils, etc.)
*†South Bend Chilled Plow Co. (Plows, etc.)
*†South Bend Foundry Co. (Grey Iron Castings, Street & Building Castings, etc.)
*South Bend Machine Tool Co. (Machine Tools)
*†South Bend Pulley Co. (Cast Iron Pulleys)
*South Bend Watch Co. (Watches, etc.)
*†§Studebaker Bros. Mfg. Co. (Wagons, Carts, Automobiles, etc.)
*Westervelt, Herbert E. (Paper Bag Machy)
SUMMITVILLE—*Custer Mfg. Co. (Punches, Shears, etc.)
TELL CITY—*†§Tell City Foundry & Machine Works
TERRE HAUTE—*†American Car & Foundry
*Buettner & Shelbourne Machine Co. (Repair Parts for Coal Mining Machines, etc.) Co. (See St. Louis, Mo.)
*†Eagle Iron Works Co.
†Gartland Foundry Co. (Grey Iron Castings, etc.)
*†Government Standard Scales Works (Scales, etc.)
*Hazledine, Edw. T. Co. (Machinist)
†Inland Steel Castings Co. (Steel Castings)
*Kester Electric Co. (Electric Motors)
*Pettyjohn Co. (Artificial Stone Machines)
*†§Prox, Frank, Co. (Coal Mining Machy,
†Springer-Whitaker Foundry Co. etc.)
*Standard Wheel Co. (Bicycles)
§Terre Haute Bronze & Brass Co.
†Terre Haute Malleable & Mfg. Co.
*†§United States Scale Factory
§Vandalia R. R. Brass Fdry.
†Wallis Stoker & Mfg. Co. (Mechanical Stokers, etc.)
UNION CITY—*Backstay Mach. & Leather Co.
*Union City Wheel Co. (Machinists)
UPLAND—*Wise, R. S.
URBANA—*Speicher, D. E. (Seed Sowers, etc.)
VALPARAISO—*McGill Mfg. Co. (Electric
*†Patrick, J. H. & Son Specialties)
VANBUREN—*Boss Pulley Machine Co.
*Mills Machine Co.
*Primm Oil Engine Co. (Oil Engines)
VEEDERSBURG—*Walter Bros.
VERNON—*Reed & Rogers Mfg. Co. (Harrows & Rakes, etc.)
VINCENNES—*†§Central Foundry Co. (See New York.)
*Hartman Mfg. Co. (Agrl. Implts., Cultivators, etc.)
*Mahoney R. R. Ditching Machine Co. (R. R. Ditching Machines)
*National Rolling Mill Co.
*†§Vincennes Foundry & Machine Co.
*Webb Motor Fire Apparatus Co. (Gasoline Chemical Fire Engines)
WABASH—*Rettig & Son
*†Wabash Foundry & Machine Co.
WAKARUSA—*† Gall, James E.
WARSAW—*†Maish Mfg. Co. (Iron Castings, etc.)
*†§Wentz, O. W. Fdry. & Machine Works
WASHINGTON—*Clore, Wm. A. Mfg. Co. (Cultivators, Harrows, Plows, etc.)
†Cole, W. E. (F'dry.)
*†§Denver, Frank
WINAMAC—*Winamac Bridge Co. (Structural Steel Work, etc.)
WINCHESTER—*Fitzmaurice, Wm. (Machinist)
WOLCOTTVILLE—*†§Morel, J. L. & Co.

## IOWA.

ADEL—*Vaughn Mfg. Co. (Printing Presses,
AKRON—*Hilliker, C. M. & Son etc.)
ALTA—*Bensene, Eli, & Son
AMES—*Loughran Machine Co. (Agricultural Implements)
AURELIA—*Mummert, Jonas S.
AVOCA—*†Jacobs Bros.
BELLE PLAINE—*†§Palmer Bros.
BELLEVUE—*Brandt, J. M. (Gasoline Engines)
BOONE—*Quinn Wire & Iron Works (Cement Drain Tile Machy., etc.)
*†§Sample, J. F.
BRITT—*†§Interstate Drainage & Investment
*National Mfg. Co. (Slot Machines) Co.
BURLINGTON—*Mohland & Co. (Grubbing Machines)
*†§Murray Iron Works Co. (Corliss Engines, Ice & Refrigerating Machy., etc.)
§Swedish Sleigh Bell Mfg. Co.
CARROLL—*Heider Mfg. Co. (Equalizers, etc.)
CEDAR FALLS—*Monarch Self-Feeder Co. (Straw Stackers, etc.)
*Rice & Dayton Mfg. Co. (Auto Vulcanizers)
*Wagner Mfg. Co. (Hdw. Specialties)
CEDAR RAPIDS—*†§Carmody Foundry & Machine Co. (Engines, Castings & Structural Work)
*†Cedar Rapids Foundry & Mach. Co. (Power Shears, etc.)
*†§Cedar Rapids Pump Co. (Iron Pumps, etc.)
*†Chandler Pump Co. (Iron Pumps, etc.)
*§Dearborn Brass Co. (Brass Founders' & Finishers' Plumbing Goods, etc.)
*Eureka Stone & Ore Crusher Co. (Rock & Ore Crushers)
*Fawcett, C. E. (Machinists)
*Hawkeye Mfg. Co. (Power Hammers, etc.)
*†Iowa Radiator Co. (Radiators, etc.)
*Iowa Windmill & Pump Co.
*Long. Mfg. Co. (Machy.)
*Porter & Erwin (Laundry Machy.)
*Rabus & Toeller (Machinists)
*Schmidt, Geo. R. (Machinist)
*†Stary, F. (Iron Fdry.)
*Tokheim Mfg. Co. (Oil Pumps, etc.)
CENTREVILLE—*†§Goss, Jos.
CHARITON—*†§Johnson Bros.
CHARLES CITY—*†Daley, M. H. (Disc Harrows)
*†Hart-Parr Co. (Traction, Stationary & Portable Gasoline Engines)
*†§Moss, W. E.
CHEROKEE—*†§Caswell Bros. (Belt Guides,
*†§Cherokee Mfg. Co. etc.)
CLARINDA—*Lisle Mfg. Co. (Well Drilling
CLARION—*Snyder & Henry Mach'y)
CLINTON—*Clinton Bridge & Iron Works
*Fish Bros. Mfg. Co. (Wagons, etc.)
*Iowa Machine Works (Inc.)
*Lamb Boat & Engine Co. (Engines, etc.)
COUNCIL BLUFFS—*Bradley, Merriam & Smith (Agrl. Implts.)
*†Children's, E., Sons Mfg. Co. (Agrl. Implts.)
*Clark Implement Co. (Agrl. Implts.)
*†§Kimball Bros. Co. (Elevator Scales, Elevators, etc.)
*†§New Specialty Mfg. Co. (Scales, Gasoline Lamps, etc.)
*Pioneer Implement Co. (Agrl. Implts.)
*†§Sprague Foundry & Mfg. Co.
*†Walker Mfg. Co. (Agrl. Implts., etc.)
DAVENPORT—*§Bettendorf Axle Co. (Steel Cars & Steel Castings)
*†§Davenport Machine & Foundry Co. (Grey Iron & Brass Castings & Special Heavy Machinery, etc.)
*†Davenport Locomotive Works (Light Locomotives, etc.)
*†§Frank, H. J. Foundry Co.
*†French & Hecht (Metal Wheels & Castings)
*†§Killing, E., Moulding Machine Co. (Moulding Machines, Grey Iron & Brass
*Krone, Charles (Jobbing) Castings)
*Newmann, H. W., Machine Co.
*†Red Jacket Mfg. Co. (Pumps & Grey Iron Castings)
*Roeske & Sindt (Machine & Novelty Works)
*Schmidt Bros. Co. (Gasoline Engines & Ice Clipping Machines)
*Wahle Fdry & Machine Works (Washing Machines, etc.)
DECORAH—*Johnson, Peter & Son (Machinists)
*†Swenson Valve Co.
DES MOINES—*†American Iron Works
*†Beckman Bros. (Pumps, Windmills, Scales, etc.)
*†Centaur Wire & Iron Works (Inc.)
*†§Dempster Mfg. Co. (Pumps, Windmills,
*†Des Moines Stove Repair Co. etc.)
*†§Des Moines Street Ry. Co.
*Dodd & Struthers Electrical Co. (Static Electrical Machines, X-Ray Apparatus, etc.)
*†Eagle Iron Works (Mining & Brick Machinery, etc.)
*Eldridge, Geo. G. (Machinist)
*Globe Machinery & Supply Co.
*†Green Fdry. & Furnace Works (Hot Air Furnaces, etc.)
*Jewett Typewriter Co. (Typewriters)
*†Keith Furnace Co. (Furnaces & Heaters)
*McDonnell Boiler & Iron Works (Boilers & Mchy.)
*Monarch Machine Co. (Gas & Electric Engines, etc.)
*Spieth & Son (Plows, etc.)
*Standard Safe & Lock Co.
*Turner & Brownlie (Boilers, Tanks, etc.)
*†Wood Bros. Thresher Co. (Agrl. Implements, etc.)
DUBUQUE—*†§Adams Co. (Machine Tools, Founders, etc.)
*†Cooper, A. A. Wagon & Buggy Co. (Plows, Cultivators, etc.)
*Dubuque Boat & Boiler Works
*Gordon, C. C., Co.
*High Speed Drill Co. (High Speed Drills,
*Key City Iron Works etc.)
*†Loetscher-Ryan Mfg. Co. (Hdwe. Specialties)
*†§McDonald, A. Y. Mfg. Co. (Pumps, Brass Goods & Iron & Brass Founders)
*Novelty Iron Works (G. E. Davis, Prop.)
(Trip Hammers, Shingle Machy., etc.)
*Ragatz & Son (Machinists)
*Scheppele Machine Works (Machinists)
*†Schmid Mfg. Co. (Casket Hdw.)
*†§Smedley Steam Pump Co. (Steam
*Voggenthaler, E. J. Co. Pumps, etc.)
ELDORA—*†Brown Bros. Foundry & Machine
ELKADER—†Allen Bros. Co.
FAIRFIELD—*†Louden Machinery Co. (Haying Tools, etc.)
†Iowa Malleable Iron Co.
*Pence, W. H.
FORT DODGE—*†Iowa Foundry & Mfg. Co.
FORT MADISON—Fort Madison Plow Co. (Agricultural Implements)
*Iowa Farming Tool Co. (Haying Tools)
GRINNELL—*†Grinnell Mfg. Co. (Power
GUTTENBERG—*Fuerste, Chas. Hammers)
HARLAN—*†Deen Loom Co.
*†§Nelson Gas Engine & Auto Co.
INDEPENDENCE—*Iowa Mfg. Co. (Tread-
INWOOD—*Hansen, Joe. mills, etc.)
IOWA CITY—*Kelly, O. S. Western Mfg. Co. (Gas Engines, etc.)
†Tuloss, I. E. (Foundry)
IOWA FALLS—*Gade Bros. Mfg. Co. (Gasoline Engines)
KEOKUK—*†Amer Stove & Range Co. (Stoves)
*Brown, L. (Acetylene Gas Machines)
*Decker Mfg. Co. (Hog Rings, Curry Combs, etc.)
*†§Kollmyer & Talbot (Machinists & Fdrs.)
*†McElroy Iron Works Co.
*†§Scott-Madden Iron Works Co. (See St. Louis, Mo.)
*Weber-Kirch Mfg. Co. (Hdw. Specialties & Cream Separators)
LAKE MILLS—*Geving, J. B.
LAURENS—*Kreul Bros.
LEMARS—*†§Pech, Gus, Foundry & Mfg. Co. (Well Drilling Machinery, etc.)
LONE TREE—*†§Zimmerman Steel Co. (Stump Pullers, Feed Mills & Wagon Scales)
LYONS—*Lyons Mfg. Co. (Hdwe. Specialties,
*Pelton Gasoline Engine Works etc.)
†Sewell, W. A. & Co. (Furnaces, etc.)
*†U. S. Steel Lock Co.
MASHALLTOWN—*Dunham, C. A. Co. (Steam Traps)
*Fisher Governor Co. (Pump Governors, etc.)
*†Lennox Furnace Co. (Stoves, Ranges & Heaters)
*†§Lennox Machine Co. (Gas & Water Tapping Machines & Gasoline Engines, etc.)
†Marshalltown Furnace Co. (Foundry)
*†§Shorthill, A. E. Co. (Iron Fdrs. & Bldrs. Iron Work, etc.)
MASON CITY—*Beecher, A. H. (Machinist)
*†§Vulcan Iron Works (Tenon & Boring Machines, Power Hammers, etc.)
MECHANICSVILLE—*Davisson, O. J.
MILTON—*Milton Mfg. Co. (Harrows, etc.)
MONTICELLO—*†Page, Frank W.
MONTOUR—*Downs, W. A.
MOUNT PLEASANT—*Iowa Ditching Machine Co.

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MUSCATINE—*†Barry Mfg. Co. (Button Machinery)
*†Giesler & Co. (Malleable Iron Wagon Brakes, etc.)
*Heitz, Louis R. (Button Mach'y, etc.)
*Miller, J. W. (Button Machinery)
*†§Niver Iron Works Co. (Grey Iron Castings, Building Fronts, Machine Castings, etc.)
*Stohr & Freund
*Vance & Baker Mfg. Co. (Machy)
MYSTIC—*Ford, Geo.
NEWTON—*†Maytag Co. (Agr'l Implts., etc.)
*Parsons, G. W. Co. (Trench Excavating Mach'y)
†Randolph Coupler Co. (Couplers, etc.)
*†Skow Bros.
NORA SPRINGS—*†Hof & Ladwig
NORTHWOOD—*†Nelson, Henry
ODEBOLT—*Kitsler & Skepstedt
OELWEIN—†§Oelwein Foundry Co.
OSKALOOSA—*Ideal Heating Co. (Heating Apparatus, etc.)
*Interstate Mfg. Co. (Furnaces, etc.)
*†§Iowa Mfg. Co. (Heating Apparatus & Plumbers' Supplies)
†Martin, J. D. & Co. (Drinking Fountains,
*†Seevers Mfg. Co. (Heaters, etc.) etc.)
OTTUMWA—*American Mining Tool Co. (Mining Tools, etc.)
*†Dain Mfg. Co. (Hay Loader, Haying Tools, etc.)
*Hardscog Mfg. Co. (Coal Drills, etc.)
*Hardscog Wonder Drill Co. (Rock Drills, etc.)
*Johnston & Sharp Mfg. Co. (Ball Bearing Sash Pulleys & Hdw. Specialties, etc.)
*†McCarroll, Chas. T. (Stoves, etc.)
*Nicholls Mfg. Co. (Carpenters' Squares, etc.)
*†Ottumwa Box Car Loader Co. (Car Loaders)
*†Ottumwa Iron Works (Mining Machinery)
PELLA—*†Buerkens Mfg. Co. (Wagons, etc.)
*†Pella Stacker Co. (Hay Stackers, etc.)
PRAIRIE CITY—*†Dowden Mfg. Co. (Potato Harvesting Machy)
*Jenks & Son (Gas Generators, etc.)
RED OAK—*†§Kerrihard Co. (Power Hammers, etc.)
*Red Oak Bridge & Iron Works
ROCKFORD—*Ayers, C. E.
ROCK RAPIDS—*Anchor Concrete Stone Co. (Cement Block Machy)
SAC CITY—*†Martin Co.
SHENANDOAH—*†Smith, Benjamin
SIOUX CITY—*Central Machine Shops
Herman & Savage (Machinists)
†§Iowa Foundry Co.
†Sioux City Fdry. & Mfg. Co.
SPENCER—*Maurer, F. X. Co. (Hay Presses)
VAN HORN—*Wicks, J. A.
WASHINGTON—*McClean, T. H.
WATERLOO—*†Armstrong-Quam Mfg. Co. (Well Drilling Machy., Gasoline Engines, etc.)
†Bovee Grinder & Furnace Works (Inc.)
*†Cascadian Mfg. Co.
*Cement Tile Machinery Co. (Cement Tile Mach'y, etc.)
*Chamberlain Machine Works
*Galloway, Wm. Co. (Agr'l Implts., Gasoline Engines, etc.)
*†Gibson, David, Foundry Co.
*†Goodman, W. A.
†Headford Bros. & Hitchins Foundry Co.
*Iowa Dairy Separator Co. (Cream rators)
*Iowa Gasoline Engine Co. (Gasoline Engines)
*†Iowa Stove & Range Co. (Stoves & Ranges)
*†Litchfield Mfg. Co. (Farm Machinery)
*Maytag-Mason Co. (Automobiles, etc.)
*†Swift Mfg. Co. (Feed Grinders, etc.)
§Waterloo Brass Foundry
*Waterloo Cement Machinery Corp. (Hoisting Engines, etc.)
*†Waterloo Furnace & Feed Mill Co. (Feed Mills, etc.)
*†Waterloo Gasoline Engine Co. (Gasoline Engines, etc.)
Waterloo Malleable Iron Works (Grey & Malleable Iron Castings)
*†Waterloo Register Co. (Hot Air Registers)
*†Zeising & Son
WAUKON—*Johnson, John S. & Son
WEBSTER CITY—*Brown Spring Ice Skate Co. (Ice Skates)
*Closz & Howard Mfg. Co. (Grain Separators, etc.)
WHAT CHEER—*What Cheer Tool Co.

## KANSAS.

ABILENE—*†§Parker, C. W. (Novelties, etc.)
*Toliver, L. H. & Co.
ATCHISON—*†Seaton Foundry & Mfg. Co.
*†§Thayer Foundry Co.
*U. S. Windmill Mfg. Co. (Chas. A. Wright, Prop.)
BELLE PLAINE—*Owens, J. A.
BUNKER HILL—*†Shaffer, C. (Agrl. Implts., etc.)
BURLINGTON—*Electric Appliance Co.
BUSHTON—*Shonyo, B. C. & Co.
CHEROKEE—*Webster, Frank L.
CHERRYVALE—*†§Cherryvale Iron Works
*Kansas Cultivator Shovel Co.
CLAY CENTER—*Watts, I. R.
COFFEYVILLE—*†§Coffeyville Foundry & Machine Co
*†Coffeyville Implement & Mfg. Co. (Agrl. implts.)
EMPORIA—*†§Jones', Jos. C. Sons
ENTERPRISE — *†Barnard Machinery Co. (Flour Mill Machy.)
*†§Ehrsam, J. B. & Sons Mfg. Co. (Flouring Mills, Cement & Plaster Mill Machy., etc.)
FORT SCOTT—†Anderson, R. K.
*†Eagle Foundry & Machine Co. (Feed
*†Eller, Charles Mills)
*†Kite Bros.
FREDONIA—Belt, P. P.
GALENA—*†Galena Foundry & Machine Co. (Mining Machinery, Grey Iron Castings,
*Kennedy, T. etc.)
*Rauch Mfg. Co. (Mining Mach'y)
*Stone & Pinson.
GIRARD—*†Hitz, C., Foundry Co.
HAYS—*†Goodall, J. W.
HIAWATHA—*†§Cash, W. F. & Co.
HUTCHINSON—*Livengood, J. K.
*Nelson Mfg. & Supply Co.
INDEPENDENCE—*Bovaird Supply Co. (Oil Well Supplies)
*†Independence Iron Works
*†§United Iron Works Co. (See Springfield, Mo.)
IOLA—*†§United Iron Works Co. (See Springfield, Mo.)
KANSAS CITY—†Armourdale Foundry Co.
*Badger Gas and Gasoline Engine Co. (Gas & Gasoline Engines)
*†Griffin Wheel Co. (See Chicago, Ill.)
*Home Embroidery Machine Co. (Embroidery Machines)
*Kansas City Foundry Co.
*§Prier Brass Mfg. Co. (Plumbers' Brass Goods, etc.)
*†Strait, H. N. Mfg. Co. (Corliss Engines, Cooperage Machinery, etc.)
†West Side Foundry Co. (Iron Fdrs.)
*§Weston Wheel Barrow & Mfg. Co. (Steel Barrows, Trucks, etc.)
LAWRENCE—*†§Lawrence Iron Works
LEAVENWORTH—*†§Fisher Machine Works Co.
*†Great Western Mfg. Co. (Grain Elevator & Flour Mill Machy., etc.)
*†Great Western Mfg. Co. (Grain Elevator & Flour Mill Mach'y, etc.)
*Hesse, W. G. & Son Mfg. Co. (Wagons, Hdw., etc.)
*Missouri Valley Bridge & Iron Co.
*†Tholen Bros. (Machinists & Fdrs.)
MANHATTAN—*†§Blue Valley Mfg. Co. (Agl. Implts.)
NEWTON—Nellans, G. M.
*†Newton Foundry & Machine Co.
*Prairie Queen Mfg. Co. (Grain Separators, etc.)
NORWICH—*Dobson, J. V.
OBERLIN—*Bradley, Perry
OTTAWA—*†§Ottawa Foundry Co.
PAOLA—*†U. S. Radiator Corp. (See Detroit.
PARSONS—†M. K. & T. Ry. Shops Mich.
*†Smith, Millard F.
PITTSBURG—*§K. C. P. & G. Ry. Shops
*†§United Iron Works Co. (Springfield, Mo.)
ST. PAUL—*Sheffer, Frank
SALINA—*Knons, Wesley (Agricultural Implements)
SEDAN—*Sedan Machine Shop Co.
SENECA—*†Butler, Wm. M. & Son
STAFFORD—*†Milton Garvin Steam Plow Co. (Steam Plows, etc.)
TOPEKA—*†Capital Iron Works
†Currie Windmill Co.
§Hewitt Mfg. Co. (of Chicago, Ill.)
*Jensen Mfg. Co. (Creamery Machy., etc.)
*Jones, W. C. R.
*Perine, A. B. & Sons (Plows, etc.)
*Semprez, John
*Topeka Bridge & Iron Co.
*†§Topeka Foundry & Mfg. Co.
*†§Western Fdry. & Machine Works (R. L. Coffran, Prop.)
WAKEENY—*Spena, John
WICHITA—*Atchison, Topeka & Santa Fe Ry. Shops
*Brooks Tire Machine Co. (Tire Setters, etc.)
*Brown Mfg. Co. (Hdw. Novelties, etc.)
*†Faries, R. P.
†Moore Bros. (Iron Fdrs. & Stoves)
†Sharon, W. J.
*†§Western Iron & Foundry Co.
WILSON—*†Wolfe, W. S.
WOODSTON—*McNutt, Ira

## KENTUCKY.

ASHLAND—*Ashland Foundry & Machine Works
*†Ashland Iron & Mining Co. (Grey Iron Castings & Machine Shop)
†Ashland Steel Co.
*†§Norton Iron Works
AUGUSTA—†Augusta Stove & Range Foundry. (See E. H. Huenefeld, Cincinnati, O.)
*Margroff Mfg. Co. (Mach'y)
BOWLING GREEN—*†Bowling Green Machine Co.)
*†§Roemer-Worrick Machine Co.
CANE VALLEY — †Dudgeon Co. (Stoves, Ovens, etc.)
CENTRAL CITY—*†§Central City Foundry & Machine Co.
CLOVERPORT—*†§Cloverport Foundry & Ma-
COVINGTON—*Anthe, Frank D. chine Co.
*Cincinnati Pulley Machinery Co. (Pulley Lathes, etc.)
*Covington Archl. Iron Works
†Germania Supply & Foundry Co.
*Hollingsworth, W. T. (Machine Tools, etc.)
*†Houston, Stanwood & Gamble Co. (Steam Engines)
†Insurance Stove, Range & Foundry Co. (All Kinds of Light & Heavy Machine Castings)
*Sebastian Lathe Co. (Machine Tools)
†Star Foundry Co. (Stoves and General Iron
*Stewart Iron Works Co. Fdrs.)
EARLINGTON—Earlington Machine Works
FRANKLIN—*Enterprise Machine & Garage
FULTON—*†Webb, C. E. Co.
HICKMAN—*Bluck, G. C. (Machinist)
*Smith, Chas. F. & Son
HOPKINSVILLE—*†Forbes Mfg. Co. (Agrl. Implts., Hdw., etc.)
LEXINGTON—*†American Metallic Packing Co. (Metallic Packings, Brass Castings & Gen'l Machinists)
*†Lexington Engine & Saw Mill Works
*Timmons, Jos. (Machinist)
LOUISVILLE—*†AMERICAN MACHINE Co. (Elevators, etc.) (See adv. index, end of book)
†Anchor Stove & Range Co.
*†Avery, B. F. & Sons (Agrl. Implts.)
*†Balke & Co. Iron Works
*†Bridgeford & Co. (Stoves)
*†Brinly-Hardy Co. (Agrl. Implts., Plows, etc.)
*†CALDWELL, W. E. CO. (Machinery & Fdrs.) (See adv. index, end of book)
*Clark, Jas. Jr. Electric Co. (Machine Tools, Dynamos, Motors)
*Continental Car & Equipment Co. (Cars, etc.)
*Cook, C. Lee
§Cowles, John H., & Co.
†Dow Wire & Iron Works Co.
*†Drummond Mfg. Co.
†Fischer-Leaf Co.
*†Graf-Webb Iron Mfg. Co. (Stoves)
*†Grainger & Co.
*Kentucky Gear & Machine Co.
†Kentucky Stove Co. (Stoves)
*†Kentucky Wagon Mfg. Co.
*Knobel-Kappa Machine Co.
*Kochenrath, C. A. & Son
*†§L. & N. Ry. Shops
†Louisville Car Wheel & Railway Supply Co. (Car Wheels, etc.)
*†Louisville Drying Machinery Co. (Drying Machinery)
*Moran Flexible Steam Joint Co.
*†National Foundry & Machine Co, (Steam Pumps, etc.)
†O K Stove & Range Co. (Stoves)
*†§Peerless Mfg. Co. (Iron & Brass Fdrs., Grates & Iron & Brass Goods)
*Pyne, W. T. Mill & Supply Co.
*Reilly, J. J. Mfg. Co. (Pumping Mach'y)
*Sheppard, S. C. (Jobbing)
*†Snead Archl. Iron Works (Builders' Castings & Iron Work)
*†§Standard Sanitary Mfg. Co. (See Pittsburg, Pa.)
*§Stege, E. A. Mfg. Co. (Brass Fdrs. & Finishers & Platers)
†Stiglitz, Chas. G. & Sons (Iron Fdrs.)

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*†U. S. Cast Iron Pipe & Foundry Co. (See New York City)
*†§Vogt, Henry Machine Co. (Ice & Refrigerating Machy., etc.)
LUDLOW—§Carran, R. B. & Sons Co.
MAYFIELD—*†Mayfield Foundry Co.
MAYSVILLE—*†Hall, Jas. H. Plow Co. (Plows, etc.)
*†Maysville Fdry. & Engineering Co.
McHENRY—*†McHenry Mfg. & Machy. Co.
NEWPORT—*Crawley Book Machy. Co. (Bookbinders' Machy., etc.)
*†Dean Mfg. Co. (Foundry & Gas Engines)
†Newport Fdry. Co.
*Roettinger, Wm. & Son (Tools)
*Roth, A. (Bakers' Machinery)
OLMSTEAD—†Wyatt Furnace Mfg. Co.
OWENSBORO—*Gilmour Hogshead Machine (Wire Hoop Machines, etc.)
*†Guenther-Wright Machine
*Kentucky Electrical Co. (Dynamos & Motors)
*Owensboro Hydrant Co. (Hydrants, etc.)
*Owensboro Shovel & Tool Co.
*†§Southern Foundry Co. (Castings & Bldrs., Iron Work, etc.)
PADUCAH—*†Jackson Fdy. & Machine Co.
†Lack Malleable Iron Co.
*†§Shelton Bros. (Iron Fdry. & Machinists)
SHELBYVILLE—*Wayne & Crapster (Machinists)
WINCHESTER—*Conway, J. P.
†§Eagle Casting Co.
*Hagans, Chas.
*†Hagans Gas Engines & Mfg. Co. (Gas Engines, etc.)

## LOUISIANA.

ABBEVILLE—*Ritter Co.
ALEXANDRIA—*†Alexandria Iron Works
ALGIERS—*†§U. S. Government Shops
AMITE—*†Gullett Gin Co. (Cotton Gins)
BATON ROUGE—*Hogue, S. D. Co. (Ltd.)
*†§Pearce, A. C.
BERWICK—*†§Watkins, Chas. & Bro. Co.
CROWLEY—*†Acadia Iron Works (Ltd.)
*†Crowley Iron & Machinery Co.
DONALDSONVILLE—*†Allen, F. H.
FRANKLIN—†Le Blanc, C. J.
JEANERETTE—*†Moresi, Antoine Co.
JENNINGS—*†Oil City Iron Works (Ltd.)
LAKE CHARLES—*†Cobb Car Co. (Ltd.)
*Michael, James
*†§Reiser Machine Shop (Ltd.), (Fdry. & Machinists)
LE COMPTE—*Wiley, E. W. Jr.
LEESVILLE—†Vernon Iron Works (Inc.)
MANSFIELD—*†§De Soto Foundry & Machine Co.
MONROE—*†§Weaks Iron Works & Supply Co. (Iron & Brass Foundry & Machinists)
MORGAN CITY—*†Johnston & Hamilton
NEW IBERIA—*Bernard, A. M.
*†§Simon, Geo.
NEW ORLEANS—*†§Bancroft, Ross & Sinclair Co. (Ltd.) (Saw Mill Machy., etc.)
*Boland Mchy. & Mfg. Co. (Ltd.) (Rice & Sugar Machinery)
*†§Connell, J. D. Iron Works
*Crescent City Machine & Mfg. Works
*Elmer Iron Works
*Hinderer, Fred (Arch'l Iron, etc.)
*Johnson Iron Works (Ltd.)
†Killeen's Foundry
*§Koretke, F. H. Brass & Mfg. Co. (Brass Fdrs. & Finishers)
*Kron, Geo. F. (Scales)
*†McArdle, Peter H. (Mach'y., Pulleys etc.)
*McDonald, Jno. S.
*§Moore's Brass Foundry (Brass Specialties, etc.)
*†§Murphy, Jno. H. (Sugar Machinery & Castings)
*†Orleans Metal Bed Co. (Iron Bedsteads, etc.)
*§Payne & Joubert
*†§Southern Pacific Ry. Shops
*†§Stern Fdry. & Mach' Co.
*Sulpice, L. F.
†Sutton, Jas. P.
†Sutton & McLean
*†Sutton's F'dry & Iron Works
*†Swoop, Julian M.
*†Whitney Iron Works Co. (Fdrs. & Machinists, Sugar Machy., etc.)
PLAQUEMINE—*†§Nadler, Henry.
RAYNE—*Stamm, Scheele Mfg. Co.
RUSTON—*†§Ruston F'dry & Machine Shop (Ltd.)
SHREVEPORT—*†Henderson, W. K. Iron Works & Supply Co. (Saw Mill Mach'y, Castings, etc.)
†McKittrick Engineering Co.
*†Means, J. L. Machinery Co. (Cotton Plantation Machy., etc.)
*†White, Benj. S.
THIBODAUX—*†Jeffries, Wm.
*†Keefe, Lawrence
WASHINGTON—*McNicoll, Leroy
WELSH—*Armstrong Machine & Well Works
*Van Ness, M. B. Co. (Inc.)
WINNFIELD—*†Winnfield Iron Works & Supply Co.

## MAINE.

AUBURN—*§Androscoggin Foundry Co.
*Crawshaw, J. M.
*Ray, Wm. A.
*Reynolds, Frank O.
AUGUSTA—*Fifield Bros. (Gasoline Engines, etc.)
*Gay, Geo. E. (Machinist & Engineer)
*Skehan, W. J. & Co.
BANGOR—*†Noyes & Nutter Mfg Co (Stoves
*†§Penobscot Machinery Co. & Castings)
*Purington, Andrew B.
*†§Union Iron Works (Iron & Brass Fdrs. & Paper & Pulp Mill & Wood Working,
*†Wood & Bishop Co. (Stoves, etc.) etc.)
BATH—*†Bath Automobile & Gas Engine Co. (Automobiles, Gas Engines, etc.)
*§Bath Iron Works (Ship Builders & Marine Engines & Brass Fdrs.)
*†§Hyde Windlass Co. (Windlasses, etc.)
*†Jackson, J. S., Jr., Son (Roller Bushings, Automatic Lathe Work, etc.)
*§Torrey Roller Bushing Works (Roller Bearing Bushings, Iron & Brass Cstgs.)
*§Watson, Frye & Co. (Inc.) (Pulp Mill Castings, Plug Cock & Valves)
BETHEL—*Herrick Bros.
BIDDEFORD—†McDermott, Thos. J.
*†§Saco & Pettee Machine Shops (Cotton Machinery) (See Newton, Upper Falls, Mass.
BOOTHBAY HARBOR—*Thurston, H. T. Co.
BRIDGTON—*†Bridgton Machine & Lumber
*Halkett, J. H. (Machinist) Co.
BRUNSWICK—*Brunswick Mfg. Co. (Ferrules, etc.)
BUCKFIELD—*Damon, Arlington (Machinist)
CALAIS—*Elliott Machine Co.
†§McCullough & Tait
CAMDEN—*†Camden Anchor-Rockland Machine Co. (Anchors & Gasoline Engines)
*†§Knowlton Bros. (Brass & Iron Fdrs. & Machinists)
CARIBOU—*†Getchell, J. S. & Son
CORINNA—*†Burrill & Weed
DEXTER—*†§Fay & Scott (Machine Tools & Iron & Brass Fdrs.)
EAST BOOTHBAY—*†Booth Bay Gas Engine Co. (Gas Engines, etc.)
*†Rice, Frank L. Motor Co. (Motors, etc.)
EAST WATERFORD—*Haskell, J. B.
ELLSWORTH—*†§Ellsworth Fdry. & Machine Works
GARDINER—*§Newell, J. F. & Co. (Journal Bearings & Brasses, etc.)
*Scribner, Harvey (Est. of)
HALLOWELL—*†§Fuller's, Geo. Sons, (Brass & Iron Fdrs. & Machinists, Engines, etc.)
*North Wayne Tool Co. (Scythes, Axes & Tools, etc.)
HARRISON—*†Ricker, T. H. & Sons (Wood Working Mchnry.)
HOLLIS CENTER—*Colclough, C. A. (Mchst)
HOULTON—*Cates, H. M.
*†Houlton Fdry. & Machine Co. (Fdrs & Machinists)
KENNEBUNK—*†Varnay, Geo. (Agrl. Implts.
LEWISTON—*Harvey, Geo. B. & Castings)
King, Arthur B.
*Rand Machine Co. (Machinists)
LIVERMORE FALLS—*Allen, Albert (Machst)
MECHANIC FALLS—*†§Penney, J. W. & Sons Co. (Steam Engines & Iron & Brass Fdrs.
MILBRIDGE—*Foster, A. V. etc.)
MILLTOWN—*McDonald, Wm & Son (Machsts)
NORTH BERWICK—*†Hussey Plow Co. (Agl. Implts., etc.)
NORWAY—*Murdock, Frank W.
OAKLAND—*Bates, A. B. & Co.
*Dunn Edge Tool Co. (Axes, etc.)
*Emerson-Stevens Mfg. Co. (Axes, Scythes.
*King Axe Co. (Axes, etc.) etc.)
OLD TOWN—*†Chapman, T. M. Sons Co. (Wood Working Machy. etc.)
ORONO—*Mansfield, Edw. & Co. (Cantdogs.
PORTLAND—*Adde & Co. etc.)
†§Babbit, Chas. E. (Brass & Iron Fdrs. & All Kinds of Copper Work)
*Conant, R. O. Co. (Canning Machy, etc.)
*Dunn, M. E. (Machst)
†Fletcher & Crowell Co. (Iron Fdrs & Bldrs Iron Work)
§Knight Bros. (Brass Fdrs., etc.)
*Lang-Cobb Mfg. Co. (Canning Specialties, Dies & General Mchnsts)
*Laughlin, Thos. Co. (Marine Hdw., etc.)
*Maine Electric Co. (Dynamos, Motors, Engines, etc.)
*†§Megquier & Jones Co. (Bldrs Iron Work & Castings)
*Mills & Gilmour (Machinsts)
*Orr & Jennings (Machsts)
*†§Portland Co. (Steam Engines, Paper & Pulp Mach'y & Iron & Brass Fdrs., etc.)
†Portland Stove Foundry Co. (Stoves, etc.)
*Smith & Langmaid
*Southworth Machine Co. (Printers' Mach.)
*Stickney, Henry R. (Can Filling Machines, etc.)
*Westcott, Daniel & Son (Machsts.)
*Westcott, Reuben (Radiators, etc.)
ROCKLAND—*†§Camden Anchor Rockland Machine Co. (See Camden)
*Livingston Mfg. Co. (Stone Working Tools)
*Shuman, I. J.
RUMFORD FALLS—*†§Clark Foundry Co. (Punches & Shears, etc.)
*†§Record Foundry & Machine Co. (See Livermore Falls)
SKOWHEGAN—*†Hackett & Witham
SOUTH PARIS—†Cummings Mfg. Co.
SOUTH PORTLAND STATION — *†Marine Hdw. & Equipment Co. (Marine Hdw., etc.)
SOUTH UNION—†Jones, Stephen W.
WATERVILLE—*Lombard, A. O. (Machinist)
†Noyes Stove Co. (Stoves)
*Waterville Iron Works (Pulp Wood Mchy)
WESTBROOK—*†Foster & Brown Co. (Mchsts.)
†Jordan, Rufus K. (Iron Fdry.)
*Knowlton Jno J (Mchst)
WEST GARLAND—*Gordon, H. L. (Mchsts.)
YORK—*Young, Chas.

## MARYLAND.

BALTIMORE—*Adt, Jno. B. (Brewers & Malsters, Tobacco Machy., etc.), 332 N Holliday
*American Compressor & Pump Co. (Air Compressors, Vacuum Presses, etc.)
†Arundel Iron Works, 757 W Pratt
*†Baltimore Car-Wheel Co. (Electric Car Trucks & Wheels), Payson & Patterson av
*†Baltimore Car & Foundry Co., Continental
*†Baltimore & Ohio R. R. Shops bldg
†Bartlett, Hayward & Co. (Sugar Machy., Iron Fdrs., etc.)
*Basshor, Thos. C. Co., 28 Light
*†Bates, Jas. Sons (Elevator Builders, Castings, etc.), Pratt & President
*†Bibb, B. C. Stove Co. (Stoves, etc.), 109 Light
§Boehm, Henry E. & Co., 207 North
*Brown, F. S. & G. L. Machine Co. (Presses, Dies & Sheet Metal Tools), 20 E Fort av
*Burt Machine Co. (Canning Machy), 327 N Holiday
*Cahill, W. S. Co. (Ship Builders, Engines, etc.)
*Calvert Machine Co., 1606 Thames
†Carr, Stuart R. & Co. (Iron Fdrs.), Essex & Montford av
†Central Foundry Co. (See New York)
*Chesapeake Iron Works (Builders' Iron Work & Castings), Bayard & Severn
†Clark, Jas. Co., ft. Webster
*Codd, E. J. Co. (Machinists, etc.)
*Cottingham, Harrison (Canning Mach'y.)
*Crook-Kries & Co.
*§Crown Cork & Seal Co.
*Detrick & Harvey Machine Co. (Machine Tools, etc.), 508 E Preston
*†De Ved & Sons' Sash Weight Co. (Builders' Castings, 813 S Howard
Dickey, Chas. H. & Co. (Gas Meters, etc.)
*Dietrich Bros. (Jail Guards, Bridge Rods, Plates, etc.), 344 North
*Dix Mfg Co (Door Hangers & Hdw Specialties), 1021 Guilford av
*Dixie Mfg. Co. (Dust Collectors, Exhaust Fans, etc.), Stockholm & Russell
*ELLICOTT MACHINE CO. (Dredging Machinery, Grey Iron Castings, etc.), Bush & Severn, Baltimore, Md. (See adv. index, end of book)
*Fadum, Fred'k (Machinist), 408 W German
§Farrell, Edw. P. (Brass Fdry. & Finishers), 1412 Philpot
*Faunt Le Roy Elevator Co. (Elevators, etc.), 8th nr. Lombard
*Fluskey, Jno. B., cor Dugan's Wharf & Wood
*†Flynn & Emrich Co. (Founders, Engines & Machinists), cor Holliday & Saratoga
†Foster Bros. Mfg. Co. (Iron Beds, etc.)
*Frank, E. T. & Son (Ice & Refrigerating Machy., etc.), 642 W Pratt
*Friedenwald Bros. (Special Machy., etc.), 216 N Holliday

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*Friez, Julien P. (Elec. & Meteorological Insts., etc.), 1230 E Balto
*§Gibson & Kirk Co. (Brass Fdrs., etc.), 517 E Montgomery
†Greenmount Iron & Mfg. Co. (Stoves, Ranges, Machine Castings, etc.), 883 Greenmount av
*Hollingsworth, Wm. (Gas Engines, etc.), 227 W North
*Hutcheson, Wm. (Brass Finisher & Machinist), 212 N Holliday
*†Hutchinson Bros. (Stoves, Furnaces, etc.)
†Jones Hollow Wore Co.
*Jones, Jno. T. Sons (Canning Machinery, etc.), 211 E Falls av
*KEMP, C. M. CO. (Gas Machines, Cellar Drainers, etc.), 401 E Oliver. (See adv. index, end of book)
†Kennedy's, P. Foundry & Baltimore Malleable Iron & Steel Casting Co. (Grey Iron & Steel Castings)
†§Kugler & Shane, Baltimore, Md.
†Lacey, Jas. J. Co. (Propeller Wheels, Grey Iron Castings, etc.), 1401 Block
*†Larrabee, H. C. & Co. (Chemical Eggs, Pyrites Furnaces, etc.), 23 S Caroline
†§Latobre Fdry Co. (Brass & Iron Castings)
*Lazenby, F. A. & Co., Bush & Wicomico
*†Levering Bros. (Sash Weights), 230 Hughes av
*§Liberty Brass Works (Brass Castings, etc.), 305 W Lombard
*Loane, Hiltz Engineering Co. (Machy., etc.), 306 Hanover
*McClenahan, H. J. & Co., 613 Water
*§McShane Bell Foundry Co. (Bell Founders, etc.)
*§Mackin, F. M. & Co., 509 N Spring
*MacRae, Hector C. (Electrical Storage Batteries, etc.), 316 St. Paul
*Marine Ry. Machine & Boiler Works (Engines, Steam Boilers, etc.), 1301 Philpot
*Marquette, Jno. N. (Fertilizer, Mach'y, etc.), 507 S Eden
§Maryland Brass & Metal Works (Brass Fdrs. & Finishers), 1529 Guilford
*†Maryland Car Wheel Works (Car Wheels, etc.), Curtis Bay
*Maryland Dredging & Contracting Co. (Marine Repairs), Fidelity bldg
†Meiser, H. & Son (Iron Fdrs., Bldrs.' Iron Work, etc.), 210 Clay
*Miller, L. H. Safe & Iron Works
*Michell, Jno. R. Co. (Pineapple Machinery, etc.)
*Monarch Engineering & Mfg. Co., 5 W Lombard
*Monitor Mfg. Co. (Electric Motor Controllers, etc.), 106 S Gay
*Montford Machine Casting Co., Montford av, nr Chase
*Moore Machinery Co. (Special Machinery, etc.)
*Murrill & Keizer Co. (Light Machy., Pattern & Model Work, Special Machy., etc.), 200 N Holliday
*†§National Supply Co. (Bolts, Nuts, Rivets, Casters, Brass Fdrs. & Finishers, etc.)
*Page Engineering Co. (Marine Gas Engines), 119 E York
*†§Poole Engineering & Machine Co. (Power Transmitting, Rolling Mill Mach'y, etc.)
*†§Poole, E. H. Co., 1513 Orleans
*Renneburg, Edw. & Sons Co. (Canning House Machinery, etc.)
*§Richardson, Edro, Brass Co. (Castings, etc.), 316 N Holliday
*Rittenhouse Bros., 312 N Holliday
*Robins, A. K. & Co. (Stove & Canning Machinery)
*Rowland Telegraphic Co. (Special Machinery, Jigs, Tools, etc.)
*†Sackett, A. J. (Fertilizer Machy., etc.), 5th av & E 1st
†Sexton, S. B. Stove & Mfg. Co. (Stoves, etc.), 7 S Gay
*Shaffer Mfg. Co. (Machinists & Pattern Makers), 408 N Calvert
*†Sheppard, Isaac A. & Co. (Furnaces, Stoves, etc.). Eastern av & Chester (See Phila., Pa.)
*Sinclair-Scott Co. (Canning Machy., etc.), Wells & Patapsco
*†§Skinner Ship Building & Dry Dock Co. (Ship Builders, etc.)
*Slaysman & Co. (Can Makers' Mach'y),
*Spedden Ship Bldg Co. (Ship Builders)
*Starr, B. F. Co. (Grinding Mills, etc.), 455 North
*Stebbins, Wallace & Sons, Charles & Lomb'd
*Stevenson & Co. (Can Makers' Mach'y), 601 S. Caroline
*†Symington, T. H. Co. (Railway Specialties, etc.) Works: Rochester, N. Y.
*Towson, W. W. & Co., 1028 Hillen
*§Walther, G. W. & Co.
*†§Weiskittle, A. & Sons (Stoves, Ranges, Porcelain Enameled Bath Tubs, Iron & Brass Founders), 2000 Aliceanna
*White & Middleton Gas Engine Co. (Gas
*Young, Conrad (Specialties) Engines)
*Zastrow, Geo. W. (Pineapple Machinery, etc.)
*Zies, Chas. & Sons (Brewers' & Butchers' Machinery, etc.)

CAMBRIDGE—*Shackelford, Edgar
CANTON—*Canton Iron & Steel Co. (Office Baltimore)
CUMBERLAND—*†§McKaig, Merwin Co.
†Maryland Foundry
*†§Potomac Engineering Co.
EASTON—*†Withgott, W. H. & Co.
EIKTON—*McQuilkin, Geo. (Machinist)
*McQuilkin, Geo. (Electrical Appliances, etc.)
†Powers, Jas. F. Fdry. Co. (Iron Fdry.)
ELLICOTT CITY—*Patapsco Elec. & Mfg. Co.
EMMITSBURG—*†Fraley Bros. (Iron F'dry)
FREDERICK—*Abbott, Jno. H. & Son (Machinists)
*†Frederick Iron Works
*Zimmerman, G. F. S. & Co. (Shutter Fasteners, etc.)
GALENA—†Hyland, Wm. A. (Wood Printing
GLENARM—*Hooper, Francis X. Machines)
HAGERSTOWN—*†Foltz, H. C. (Iron Fdry. & Machinist)
*†Hagerstown Foundry Co.
*†Hulls', D. F. & Sons (Agrl. Implts.)
HANCOCK—*†Hancock Fdry. & Machine
LAUREL—†Fairall Foundry Co. Works
MANCHESTER—*†Shower, Wm. H.
ORANGEVILLE—*†§Weiskittle, A. & Sons Co. (See Baltimore)
PERRYVILLE—*†Armstrong Stove & Mfg. Co. (Stoves, etc.)
FORT DEPOSIT—†Bibb, B. C. Stove Co. (See Baltimore, Md.)
SALISBURY—*Grier, F. A. & Son
*†§Grier, R. D.
SOUTH BALTIMORE—(See Baltimore)
SPARROWS POINT—*†§Maryland Steel Co.
WESTERN PORT—*†White, P. F. (Iron Fdry.)
WESTMINSTER—*†Haller, L. A. (Machinist & Fdr.)
*§Regester Co. (Brass Goods for Steam & Water, etc.)

## MASSACHUSETTS.

ABINGTON—*American Worsted Machy. Co. (Worsted Machy., etc.)
*Lamson, E. F. (Machinery, etc.)
AMESBURY—*§Amesbury Brass & Foundry Co. (Brass, Manganese Bronze, etc., Castings)
*Atlantic Co. (Marine Motors, etc.)
*Pettingill Machine Co.
ARLINGTON—*Birch, A. (Textile Machy,
*Safford & Co. (Hinges) etc.)
ASHBURNHAM—*Almond, T. R. Mfg Co. Drill Chucks Countershafts, etc.)
ASHLAND—*Lombard Governor Co. (Water Wheel Governors, etc.)
*Ray, Albert H. (Printing Presses)
ASSONET—*Davis, N. R. & Sons (Fire Arms, etc.)
ATHOL—*†Athol Machine Co. (Machinists' Fine Tools, etc.)
*§Athol Pump Co. (Pumps & Brass Castings)
*Gerry, Geo. & Son (Textile Mach'y)
*STARRETT, L. S. CO. (Machinists' Fine Tools, etc.) (See adv. index, end of book)
*Union Twist Drill Co. (Gear & Milling Cutters, etc.)
ATTLEBORO—*†Howard & Bullough American Machine Co. (See Boston)
*Mossberg, Frank Co. (Dies, Special Machinery & Tools)
*Wilmarth, W. D. & Co. (Hardware, etc.)
ATTLEBORO FALLS—*Barnett, W.
AYER—*Chandler Machine Co.
*Chandler Planer Co. (Machine Tools)
BARRE—*Allen, Chas. G. Co. (Drill Presses, Self-Opening, Dies, etc.)
BEVERLY—*Baker, John S. (Brake Handles & *Smith, Ira A. Wheels, etc.)
*†United Shoe Machinery Co. (See Boston)
Naumkeag Buffing Machine Ass'n
*Reid Machine Co. (Linotype Parts & Accessories)
BOSTON—*Allington & Curtis Mfg. Co. (See Saginaw, Mich.)
*American Postal Machines Co. (Stamp Cancelling), 140 Pearl
*American Soda Fountain Co., 278 Congress
*†§American Steam Gauge & Valve Mfrs. (Gauges, Valves, etc.), 208 Camden
*†§American Tool & Machine Co. (Centrifugals, Brass Workers' Lathes, Brass & Iron Castings ,etc.), 109 Beach
*†Ames Plow Co. (Agl. Implts. & Machines), Faneuil Hall Market
*Ames Shovel & Tool Co., Ames Bldg.
*§Anderson, Albert & J. M. Mfg. Co. (Elec. Ry. Light & Power Mach'y & Brass Fdrs., etc.), 289 A
*Angell, E. E. & Co. (Check Perforators), 370 Atlantic av
*Arbetter Felling Machine Co., 242 Dover
*Armstrong, F. A. W. & Co. (Machine Screws, etc.), 364 Atlantic av
*§Ashton Valve Co. (Steam, Gas & Water Specialties & Brass Fdrs), 271 Franklin
*Atlantic Works (Shipe Engine Builders), 72 Border, E B
*Barr, Jno. A. & Co. (Machinists), 91 Wareham
*Barrett Bros. (Special Mach'y), 43 Haverhill
*§Barrett, Jas. Mfg. Co. (Plumbers' Iron & Brass Specialties), 211 Franklin
*Bartlett, Edwin E. (Bench Planers, Arbor Presses, etc.), 326 A
*Bassill, Louis (Brass Finisher)
§Bay State Brass Foundry, 155 A
*Beaudry & Co. (Power Hammers, etc.)
*Bertelsen & Petersen Engineering Co. (Ship Machinists), 140 Border, E B
*Blount & Lovell (Gear Cutting Machinery), 100 High
*Boston Bolt Co. (Bolts, Clamps, Jack Screws, etc.), 40 Farnsworth
*§Boston Brass Andiron Co. (Brass Fdrs. & Finishers), 104 Utica
*§Boston Brass Co. (Plumbers' Brass Work, Finishers & Platers), 36 Oliver
*Boston Bridge Works (Inc.) (Traveling Structural Steel Work, etc.), 47 Winter
*Boston Coin Machines Co., 381 Albany
*§Boston Coupling Co. (Machinists & Brass Finishers), 156 Pearl
*†Boston Machine Works (Marine Engines, Motor Vehicles, etc.), 65 Franklin
*Boston Motor Co. (Machinists)
*Boston Nickel Plating Co. (Brass Finishers), 160 Portland
*Boston Printing Press & Machinery Co. (Printing Machy.), 176 Federal
*§Boston Steam Specialty Co. (Steam Traps, Separators, Indicators, Lubricators, etc.), 168 Congress
*Boston & Lockport Block Co. (Tackle Blocks, Diaphragm Pumps, Differential Hoists, etc.),100 Condor
*Boylston Mfg. Co. (Shoe Mach'y, etc.
*Bradley Pulverizer Co. (Cement & Pulverizing Machinery), 92 State
*Brown, E. R., Beer Pump Co. (Brewers' Supplies), 11 Chardon
*Brown-Talbot Machinery Co. (Motors, etc.), Old South bldg
*Burke, P. F. (Toe Calks, etc.), Dow & Dorchester av
*Buzzell, J. G. & Co. (Boot & Shoe Machy), 102 High
*Cahill, Michl. F. (Brass Ferrules, etc.), L E 1st, S. B.
*Campbell-Bosworth Machinery Co. (Harness Machinery), 205 Lincoln
*Carpenter, Lewis A. (Machinist), 27 Purchase
*Carson Trench Machine Co. (Trench & Excavating Machy. etc.), 16 Dorrance
*Champion Buttonhole Machine Co., 16 High
*†Chilson Furnace Co. (Hot Air Furnaces, Stoves & Ranges), 88 Wash'n
§Clark, D. W. & Co. (Brass Fdrs.) 280 W 1st, S. B.
*Codman, F. L. & J. C. (Buff Wells, etc.), 108 K, S. B.
*†Coffin Valve Co. (Valves, Sluice Gates, etc.), Tolman St. Dor
*§CROSBY STEAM GAGE & VALVE Co. (Steam Specialties), 95 Oliver. (See adv. index, end of book)
*Cross Paper Feeder Co., 185 Summer
*Cummings Machine Works
†Cunningham, J. H. Co., 269 Congress
§Dahlquist Mfg. Co.
*Dalrymple & Brissette (Machinists)
*†Dalton-Ingersoll Mfg. Co. (Plumbers' Brass Goods), 173 High
*§D'Este, Julian Co. (Steam & Plumbing Specialties, Brass Fdrs. & Finishers), 24 Canal

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*†Edson Mfg. Co. (Diaphragm & Force & Lift Pumps, etc.), 255 Atlantic av
*Electric Blower Co. (Blower Mfrs., etc.), 352 Atlantic av
*Electric Goods Mfg. Co. (Electrical Goods, etc.), 144 Pearl
*Elliott Co. (Addressing Machines), 100 Purchase
*Empire Laundry Machinery Co. (Laundry Mach'y). Works: Newton, Mass.
*Ensign Mfg. Co. (Calculating Machines)
†Estabrook's, R. Sons (Soil Pipe & Fittings & Castings, etc.), 204 W 1st, S. B.
*Eyelet Tool Co., 40 Lincoln
*Finch, J. H. (Brass Finisher)
*Fitzhenry, E. L. & Co. (Yacht & Launch Engines, etc.), 49 Washington N
*Fowler, W. H., 38 Chardon
†Foxboro Foundry Co., 19 Congress
*Fraser Machine & Mfg. Co., 70 Freeport
*†§Gibby Foundry Co. (Brass Fdr.), 96 Condor, E B
§Gilchrist, Geo. E. Co. (Brass Fdrs & Finishers), 106 High
*Gillette Safety Razor Co. (Safety Razors), 41 W 1st
*Gilmore Electric Co. (Elec. Bench Grinders & Elec. Lamps, etc.), 625 E 1st, S. B.
*§Granular Metal Co. (Brass Fdrs), 77 Farnham, Rox.
*Grant Gear Works (Gears & Pinions, etc.), 6 Portland
*Grant Nail & Supply Co. (Adjustable Reamers, etc.)
*§Grundy, J. E. & Co. (Brass Finishers), 82 Sudbury
*†Gurney Heater Mfg. Co. (Heaters, Radiators, etc.), 188 Franklin
*†Gurney, Jas. & Co. (Castings), 202 Border
*§Hall, Wm. & Co. (Brass Fdrs & Finishers), 7 Dock sq
*Ham, L. M. & Co. (Cold Iron Sawing & Coping Machines, etc.), 158 Portland
*§Hamlin & Emery Brass Co. (Brass Goods & Castings), 26 Island, Rox.
*§Hancock Inspirator Co. (Injectors & Ejectors, etc.), 23 Watson
*Hart Mfg. Co., 352 Atlantic av
*Hart, Thos. H. & Co., 563 Rutherford av
*†§Hayden & Derby Mfg. Co., 1 Watson. Main Office: New York)
*§Hersey Mfg. Co. (Sugar & Soapmakers§ Machy, Water Meters, etc.), 314 West Second
*†Highland Foundry Co. (Stoves, Furnaces, etc.), 1341 Columbus av
*Highland Machine Co. (Machinists' & Pattern Makers, etc.), 56 Kemble, Rox.
*§Hodgdon Brass Works (Brass Finishers, etc.), 421 Atlantic av
*Holmes, Chas. Leather Working Machine Co. (Hide & Leather Working Machinery), 209 Marginal, E B
*Howard & Bullough American Machine Co. (Ltd.) (Cotton Machinery, etc.), 65 Franklin
*Howe & Clausen (Machinists), 208 Summer
†Howes, S. M. Co. (Stoves, etc.), 40 Union
*§Hunt, Harry (Brass Finisher, Dies, etc.), 97 Haverhill
†§Hunt-Spiller Mfg. Corp. (Gun Iron Castings), 383 Dorchester av, S. B.
*Isele, Ambrose W. & Son (Tools, etc.), 51 Pitts
*Jones Mfg. Co. (Water Filters), 243 Franklin
*Knapp, Gardner & Co., 62 Sudbury
*Knapp, James M., 12 Bowker
†Krasser F. & Co. (Iron Fdrs.), 31 George
*†Laconia Car Co. Works (Electric Cars & Trucks & Malleable & Grey Iron Castings), 100 Boylston. Works: Laconia, N. H.
*Lang, J. A. & Sons (Dies, Tools & Light Mach'y), 280 Dover
†Lincoln, Geo. H. & Co. (Iron Fdrs.)
†Livermore, Homer F. (Steel & Malleable Castings), 85 Pearl
*†Lockwood Mfg. Co. (Marine Engines,
*†§Lumsden & Van Stone (Heating, Specialties, etc.), 1 Dorchester, S. B.
*Lundin Electric & Machine Co. (Electrical Specialties), 10 Thacher
*Lunt, Moss Co. (Gasoline Engines, etc.), 43 S. Market
§McCafferty, J. H. & Co. (Brass & Bronze Founders, etc.), 434 Harrison av
§McGann, T. F. & Sons Co. (Brass Fdrs. & Finishers), 104 Portland
*†McLaughlin, Geo. T. Co. (Machinery Builders), 120 Fulton
*§Macallan Co. (Electric Specialties & Brass Fdrs.), Foundry & Division
*†Magee Furnace Co. (Heating & Cooking Apparatus), 38 Union
*Marshall, Son & Co. (Book Binders & Paper Box Machy.), 226 Purchase
*Marston, J. M., & Co. (Saws, Wood Working Machinery, etc.), 226 Ruggles
*Mason Regulator Co. (Regulators, etc.), 158 Summer
*Mass. Oilless Bearing Co., 84 State
*†Mechanics Iron Fdry. Co. (Grate Bars, etc.), 38 Kimble, Rox
*Meisel Press & Mfg. Co. (Printing Presses & Slitting & Winding Mach'y), 944 Dorchester av
*Metcalf, J. C. Paper Box Machinery Co. (Paper Box Machy.), 102 Pearl
*§Mitchell, R. & Co. (Brass Finishers), 380 Atlantic av
*Moore, Geo. W. (Piano Hdw. & Tools, etc.), 15 Chardon
*Moore & Wyman Elevator & Machine Works, 72 Granite
†Morandi-Proctor Co. (Cooking Apparatus), 48 Union
§Morse, Andrew J., & Son (Fire Dept. Supplies & Brass Finishers), 221 High
*Morrison, Angus (Machinist & Elevators etc.), 18 Harvard pl
*Murray & Tregurtha Co. (Steam & Gasoline Launch Engines), 340 W 1st, S. B.
*Nary, F. E. (Brass Finisher), 51 Chardon
*National Machine & Tool Co. (Machy, Jigs, Tools, Dies, etc.), 253 A
*New England Buff Co. (Cotton Buffs, etc.), 95 Albany
*Nicholas & Stephenson (Machinists), 208 Summer
*Norton, A. O. (Ratchet Screw & Track Jacks), 286 Congress
*Nutter & Barnes Co. (Cold Saw Cutting-Off Machines, etc.), 326 A
*†Otis Elevator Co., S. Boston
*Pattinson Mfg. Co., 48 Stanhope
*†Pilgrim Foundry Co. (Stoves, etc.), 53 Locust
*Poland Laundry Machinery Co. (Laundry Machy), 49 Kemple, Rox.
*Porter-Whidden Co.
*Puritan Mfg. Co. (Harness Machinery), 22 Lincoln
*Reece Button Hole Machine Co., 502 Harrison av
*Renim Specialty Co. (Electrical Specialties), Brighton Station
*Ridlon, Frank Co. (Electrical Appliances), 251 A
*Rivett Lathe Mfg. Co. (Watch Tools, etc.), 1 Brooks, Brighton
§Rogers, C. E. (Brass & Bronze Fdry.), 34 Beach
§Scrannage Bros. (Brass Fdrs. & Finishers), 77 Travers
Seelye Mfg. Co. (Shoe Machinery), 118 South
*Shawmut Machinery Co. (Shoe Machy.), 82 Lincoln
*†Smith, G. W. & F., Iron Co. (Iron Fdrs. & Builders' Iron Wks), Gerard St. Rox
*†§Smith & Anthony Co. (Stoves & Plumbers' Supplies), 54 Union
*†Smith & Lovett Co. (Inc.) (Builders' Castings & Machine Work), 129 Albany
*Souther, John & Co. (Dredging Machines, etc.), 185 Summer
*†Standard Rivet Co. (Rivets, Rivet & Staple Setting Machines, etc.), 41 Lincoln
*§Star Brass Mfg. Co. (Steam Specialties & Brass Fdrs.), 108 E Dedham
§Star Refining Co. (Brass Fdrs., Babbitt Metal, etc.), 50 State
*Stone, Henrie D. (Engineer & Mchnst.), 7 Sherman, Chsn
§Strater, Herman, & Sons (Brass Fdrs. & Finishers, Bar Fixtures, etc.), 74 Sudbury
*§Sturtevant Mill Co. (Cement & Pulverizing Machy), Clayton c Park, Dor.
*Tarbett & Fraser, 172 Oliver
*Textile Machinery Co. (Flyers, etc.), 60 India
*Trimont Mfg. Co. (Wrenches), 55 Amory av, Rox.
*Tucker, Frank S. (Metal Specialties), 1 Hartford
*Tufts, Nathaniel, Meter Co. (Gas Meters), 455 Commercial
*Underhill Bros. (Edge Tools), 6 Sherman, Chsn
*United Printing Machinery Co. (Photo-Engraving Machy, etc.), 246 Summer
*†United Shoe Machinery Co. (Shoe Machinery), 205 Lincoln
*†§U. S. Navy Yard, Charlestown
*Universal Winding Co. (Textile Machy), 95 South
*Wade Machine Co. (Punches, Dies, etc.)
*Walker, G. A. Machine Co. (Bench Vises, etc.), 51 Chardon
*†Walker & Pratt Mfg. Co. (Stoves, Furnaces, Radiators, Cooking Apparatus, etc.), 33 Union
*†§Walworth Mfg. Co. (Pipe Cutting & Threading Machines, Stocks & Dies, & Iron & Brass Fdrs, etc.), 132 Federal
*Welch, T. F. & Co. (Gears & Specialties), 55 Sudbury
*Whitney, Frank E., 65 Sudbury
*†Whittier Machine Co. (Elevators, Iron Fdrs., etc.), 53 State
*Wold Machine Co., 14 L
*†Wollaston Foundry Co. (Machy, Piano Plate & Light Castings), 185 Summer. Works, Wollaston, Mass.
*Woods, S. A. Machine Co. (Woodworking Machy, etc.), Dorr st, S. B.

BRAINTREE—*Dow Portable Electric Co. Spark Plugs, etc.)

BRIDGEWATER—*Continental Gin Co. (Cotton Gins, etc.)
*†§Perkins, Henry, Co. (Iron Fdrs. & Wire Nail Machy.)
*§Stanley Works (See New Britain, Conn.)

BROCKTON—*Postock, Thos. & Sons (Machinists)
*Brockton Die Co.
*Donnelly Machine Co.
*Independent Die Co.
*Kimball Bros. & Sprague (Nail Mill & Tack Machy, etc.)
*Knight, Geo. & Co. (Machinists)
*Pickard Bros. Motor Car Co.
†Pratt Foundry Co.
*Scott, Geo. V. Co. (Machinists)
*Tuck Mfg. Co. (Shoe Knives, etc.)
*†United Shoe Machinery Co. (Shoe Machy). (See Boston, Mass.)

BROOKLINE—*†Holtzer-Cabot Electric Co. (Electric Machy. & Specialties)

CAMBRIDGE—*†Barbour-Stockwell Co. (Street Railway Specialties & Castings)
*Blanchard Machine Co. (Fertilizer & Soap Makers' Machinery)
*Boston Bridge Works (Inc.). (See Boston)
*Boston Tool Co. (Tools, etc.)
*§Boston Woven Hose & Rubber Co. (Hose Couplings, Nozzles, etc.)
†Broadway Iron Foundry Co. (Iron Fdrs.)
*†Cambridge Iron Works (Castings, etc.)
*Clark & Mills Elec. Co. (Electric Specialties)
*Davis, F. H. (See Boston, Mass.)
*Field, Walter W. (Hoisting Engines, etc.)
§Hayden, Geo. W. (Brass Fdry.)
*†§International Steam Pump Co. (Knowles Steam Pump Works Dept.)
*†MEAD-MORRISON MFG. CO. (Hoisting & Conveying Machinery). (See adv. index, end of book)
*†Roberts Iron Works Co. (Fdrs., etc.)
*†Riverside Boiler Works
*Seelye Mfg. Co. (Shoe Machy., etc.)
*Shaw, Hamlin J.
*Simplex Electric Heating Co. (See Boston, Mass.)

CHELSEA—*†Griffin Wheel Co. (Car Wheels) (See Chicago, Ill.)
*International Heater Co. (of Utica, N. Y.)
*†Lovewell-Henrici Co. (Laundry Machy.)
†Lundin Steel Casting Co. (See Boston, Mass.)
*†Magee Furnace Co. (See Boston, Mass.)
*†Snow, W. A. Iron Works (Stable Fixtures & Ornamental Iron Works, etc.)

CHICOPEE—*§Ames Sword Co.
§Mosman, M. H. (Bronze Fdr.)
*National Scale Co. (Computing Scales & Counting Machines)
*Page-Storms Drop Forge Co.
*†§Spalding, A. G. & Bros. Mfg. Co.

CHICOPEE FALLS—*†Belcher & Taylor Agricultural Tool Co. (Agrl. Implts. & Tools)
*†Lamb Knitting Machinery Co. (Textile Mach'y)
*National Scale Co. (Computing Scales & Counting Machines)
*Stevens, J. Arms & Tool Co. (Fire Arms & Machine Tools, etc.)

CLINTON—*†§Clinton Foundry Co. (Machinists' Iron & Brass Castings for Builders & Machinery)
*Clinton Wire Cloth Co.

CONCORD—*Hancock, W. C.

CONWAY—*Conant & Donelson Co. (Screw Cutting Tools, etc.)

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DALTON—*Jordan, G. J. (Machinists)
*†Pittsfield Spark Coil Co. (Coils, Dyna-
DANVERS—*Nightingale, J. Ellis mos, etc.)
DEDHAM—*Shatswell, H. K. & Co. (Machinists & Power Launches)
EAST BRIDGEWATER—*†—Carver Cotton Gin Co. (Cotton Gins, etc.)
†§Old Colony Foundry Co.
EAST BRIMFIELD—*Snell Mfg. Co. (Ship Augers, etc.)
EAST DOUGLASS—*American Axe & Tool Co. (Axes, Edge Tools, etc.)
EASTON—*†Belcher Malleable Iron Co. (Malleable Iron & Steel Castings)
EAST TEMPLETON—Bay State Metal Wheel Co.
EVERETT—*Bent, G. W. & Co. (Iron & Brass Bedsteads)
*Blount, J. G. & Co. (Machine Tools)
*†Massachusetts Steel Casting Co. (Steel Castings, etc.)
*†New England Structural Co. (Builders' Iron & Steel Work)
*Porter, Henry K. (Bolt Clippers, etc.)
*Waters Governor Co. (Governors, Valves, etc.)
FAIRHAVEN—*†Fairhaven Iron Foundry Co. (Iron Fdrs. & Steam Motors, etc.)
FALL RIVER—*Bates, Geo. A., & Son (Machinists)
*Belcher Motor Co. (Gasoline Engines,
†Cote Piano Co. Models, etc.)
*Covel Machine Co. (Machinists)
§Creighton, Thos. J. Co. (Brass Fdrs.)
*†§Fall River Fdry. & Machine Co. (Iron & Brass Castings & Cotton Machy.)
*Fall River Steam & Gas Pipe Co. (Machinists, etc.)
*Fyans, Fraser & Blackway Co.
*Kay, H. E. (Est. of) (Lathes, Chucks)
*†Kilburn, Lincoln & Co. (Textile Machy., Looms & Water Wheels, etc.)
*†§Mechanics' Foundry & Machine Co. (Iron & Brass Fdrs. & Machinists)
*Shea Bros. (Machinists)
*Thurston, A. G. & Son (Machinists)
FISKDALE—*Snell Mfg. Co. (Augurs, Bits, Countersinks, Nails, etc.)
FITCHBURG—*Bath Grinder Co. (Emery Grinding Machy)
*Blake Pump & Condenser Co. (Steam Pumps & Condensers)
*Brown Bag Filling Machine Co. (Paper Bag & Envelope Machines, etc.)
*Brown, C. H. Engine Co. (Engines, etc.)
*Cowdrey, C. H. Machine Works (Woodworking & Special Machiner)y
*Deane, Herbert C. Machine Co. (Special Mach'y, etc.)
*†Fitchburg Machine Work (Machine Tools, etc.)
*Fitchburg Steam Engine Co. (Engines, etc.)
*†Goodnow, L. H. Foundry Co. (Iron Fdrs, Heavy Fly Wheels, Engine or Machine Castings)
*§Hardy, Wm. A. & Sons Co. (Brass & Bronze Castings, Screen & Suction Plates, etc.)
*†Johnson's, Iver Arms & Cycle Works (Fire Arms, Bicycles, etc.)
†Perault, Moses J. (Iron Castings, Fly Wheels, Pulleys, etc.)
*†§Putnam Machine Co. (Machine Tools, Woodworking Machy, Steam Engines, Brass Fdrs, etc.)
*Sawyer Tool Mfg. Co. (Tools, etc.)
*Simonds File Co. (Files, etc.)
*SIMONDS MFG. CO. (Saws, Machine Knives, etc. (See adv. index, end of book)
*Thomson, Alex. (Boiler Makers' Tools)
*Tyrrell, Harlan P.
*†Union Foundry Co.
*†Union Machine Co. (Paper & Pulp Mill Machinery & Iron Fdrs)
*§Union Screen Plate Co. (Brass Fdrs, Screen & Suction Plates, etc.)
*Wachusett Machine Co. (Woodworking Machinery)
*Waymouth, A. D. & Co. (Variety Wood-Turning Lathe)
§Welch, E. J. & Co. (Brass Fdrs.)
*Wilder, Chas. W. (Wood-Turning Lathes,
*Wilder, Levi (Lathes, etc.) etc.)
FLORENCE—*†Florence Co. (Oil Stoves, etc.)
*†Norwood Engineering Co. (Iron Fdrs. & Machinists, Fire Hydrants, Water Fittings for Mills, etc.)
FOXBORO—*†§Foxboro Foundry Co.
*†§STANDARD GAUGE MFG. CO. (Electrical Specialties, Steam Gauges, etc.). (See adv. index, end of book)
FRANKLIN—*†§Golding Mfg. Co. (Printing
*Rose, Jas. F. Machinery)
GARDNER—*Alzinger, Napoleon
*Bancroft & Barnard Co. (Machy.)
†Central Oil & Gas Stove Co. (Gas & Oil Stoves & Heaters)
†§Gardner General Foundry Co.
*Gardner Machine Works (E. N. & W. H. Hobby, Props.) (Chair Machy., etc.)
†Hoglund, G. E., Foundry Co.
*†§McKnight, L. G. & Son Co. (Chair & Woodworking Machinery)
*Sawin, Edw. H. (Special & Chair Machy.)
*Simplex Time Recorder Co. (Time Recorders)
GLOUCESTER—*† Cape Ann Anchor Works
†§Reed, Geo. A. & Son
*Stoddard, Adam P. & Co. (Machinists)
GRANITEVILLE—*†Sargent's, Chas. G. Sons (Wool Mach'y, etc.)
GREENDALE—†Morrison Construction Co.
GREENFIELD—*AMERICAN TAP & DIE Co. (Taps, Dies, etc.) (See adv. index, end of book)
*Bickford Machine Co. (Machinists' Tools, etc.)
*Butler Chuck Co. ("Chucks, Drills," etc.)
*Goodell Mfg. Co. (Machinists' Small Tools, etc.)
*†Goodell-Pratt Co. (Drills, Hack Saws, etc.)
*Greenfield Machine Co (Machine Tool Grinders)
*Massachusetts Tool Co. (Surface Gauges, Micrometers, etc.)
*†Noyes, B. B. & Co. (Drills, Vises, etc.)
*SMART, A. J. MFG. CO. (Taps & Dies) (See adv. index, end of book)
*WELLS BROS. CO. (Machinists' Fine Tools, etc.) (See adv. index, end of book)
*Wells, F. E. & Son Co. (Pipe Tools, Taps, Dies, Machine Tools, etc.)
*†Wiley & Russell Mfg. Co. (Machine Tools, etc.)
†Wing, Chauncey (Pattern Works, etc.)
HARVARD—*Hildreth Bros. (Kindling Wood Mach'y, etc.)
HATFIELD—*Porter Machine Works (Lathes, etc.)
*Shattuck, C. S. (Fire Arms, Hammerless, etc.)
HAVERHILL—*Beckett & Hammond Machine
*Briggs Belmar Edge Tool Co. Co.
*Busfield. Jas. (Machinist)
*Haverhill Fire Appliance Co.
HAYDENVILLE—*†§Haydenville Co. (Brass & Iron Goods, for Water, Steam & Gas)
HOLLISTON—*Wilder, Sidney & Co. (Pumps, etc.)
HOLBROOK—*C. A. C. Axe Co. (Edge Tools, etc.)
HOLYOKE—§Barlow Mfg. Co. (Brass Castings & Metal Works)
*†Coburn Trolley Track Mfg. Co. (See adv. index, end of book)
*†Dean Steam Pump Co. (See International Steam Pump Co., New York City)
§Higgins & Co. (Composition, Brass, Aluminum, Aluminum Bronze, Phospor Bronze, Castings, etc.)
*Holyoke Bar Co. (Machine Knives, etc.)
*†Holyoke Machine Co. (Paper & Pulp Mill, Cotton Mill, Power Transmitting & Wood Barking Machy)
*†Holyoke Motor Foundry Co.
*§Holyoke Valve & Hydrant Co. (Valves Hydrants, etc.)
*†Jolly, J. & W. (Paper & Pulp Mill Machinery, etc.)
*Judson & Williams (Screen Plates, etc.)
*Koegel, Chas. & Son (Wire Spooling Machines, etc.)
§Paper City Brass Foundry
*†Perkins, B. F. & Son (Paper & Pulp Mill Machy.)
HOPEDALE—*†§Draper Co. (Textile Machy.,
*§Roper, C. F. & Co. Looms, etc.)
*Westcott, A. A. & Sons (Spindles, etc.)
HUDSON—*Lapointe Machine Tool Co. (Keyseat Broaching Machines, Adjustable Reamers, Toolmakers, etc.)
*Tower Bros. (Machinists)
*Universal Boring Machine Co. (Boring
*Woodward Machine Co. Machines)
HYDE PARK—*†§American Tool & Machine Co. (See Boston)
*†Becker Milling Machine Co. (Machine Tools, etc.)
*†New England Steel Casting Co.
*Robinson, John T. Co. (Book Binder, Card Cutter & Paper Box Machy.)
*§†STURTEVANT, B. F. CO. (Blowers, Engines, Generating Sets, etc.) (See adv. index, end of book)
INDIAN ORCHARD — *†§CHAPMAN Valve Mfg. Co. (Valves, Hydrants, Water Works Supplies, etc.) (See adv. index, end of book)
*Hough Cash Recorder Co.
*Metallic Drawing Roll Co. (Textile Machinery, etc.)
LAWRENCE—*Co-Operative File Co. (Files,
†Davis Foundry Co. (Iron Fdrs.) etc.)
*Dillon Machine Co. (Paper Mill Machy.)
*Emerson Mfg. Co. (Paper & Pulp Mill
§Fallon, T. F. & Co. Machy.)
*†Hamblet Machine Co. (Paper Mill Machinery)
*†Horne, J. H. & Sons Co. (Paper Mill Machy., etc.)
*†Lawrence Pump & Engine Co. (Pumps,
*McCabe, E. & Co. (Machinists) etc.)
*McCaffrey, John (Machinist & Loose Pul-
†Merrimack Iron Foundry leys, etc.)
*Mills Machine Co. (Machinists)
*Sprague, L. Co. (Bobbins, etc.)
*Stanley Co. (Gasoline Engines)
*§Watts Regulator Co. (Machinists & Brass Finishers)
LEE—*†§Clark, H. C. & Son Machine Co. Paper Mill Machinery, etc.)
LEEDS—Northampton Emery Wheel Co. (Emery Wheels & Grinding & Polishing Machy.)
LEOMINSTER—*Cook, F. H. & Co. (Comb & Hairpin Machy.)
Grimes & Harris (Button Machy.)
*Smith, A. A. (Machinist)
*Stowell, J. A. Co. (Saw Benches, Buzz Planers, Polka Machines, etc.)
LEXINGTON—*§Jefferson Union Co. (Brass Fdrs., Flange Couplings, Pipe Unions, etc.)
LOWELL—*American Mason Safety Tread Co.
*Bagshaw, W. H. (Estate) (Textile Mach'y, etc.)
*Barker, H. R. Mfg. Co. (Machinists)
*Bennett Bros. Gas Engine Co. (Windmills, Gasoline Engines, etc.)
*Cady, Geo. L. & Sons (Machine Tools, Book Trimming Machines, etc.)
*Carey, W. W. Co. (Woodworking Machy.)
†City Iron Foundry
*Dennis, John Machine Co. (Textile Machy.)
*Dodge, Chas. S. (Textile Machy., Pick-
†Doherty Bros. (Iron Fdrs.) ers, etc.)
*Entwhistle, T. C. Co. (Textile Machy.)
*Fifield, Geo. W. (Heavy Lathes, etc.)
*Gee, Chas. E. (Machinist)
*Hope, Wm. A. & Co. (Milled Screws, etc.)
*†Kitson Machine Shop (Special Machy.)
*Knapp, Arthur P.
*Knowles Scale Works (Scales & Weigh-
*Labue, M. M. & Co. ing Machines)
*Lovejoy, Daniel & Son (Machine Knives, etc.)
*†§Lowell Machine Shop (Cotton Machy.,
*Lowell Shuttle Co. etc.)
*McBride Machine Co. (Wool Machy., etc.)
*Middlesex Machine Co. (Machinists)
*New England Motor Co. (Dynamos & Motors)
†§Nichols Foundry Co. (Iron & Brass Fdrs.,
*Parker, Frank etc.)
*Perkins, Francis S. Co. (Lathes, etc.)
†§Pevey Foundry Co. (Iron & Brass Fdrs.,
†Robinson, James P. etc.)
*Turner, J. S. Mfg. Co. (Worsted Roll Covering Machines)
†Union Iron Foundry Co.
§Union Brass Fdry. Co. (Brass & Com-
*U. S. Cartridge Co. position Castings)
*Upton & Gilman
*Wilson, D. H. & Co. (Textile Machy.,
*Wrigley, Wm. & Co. etc.)
LYNN—Boston Machine Works
†Central Iron Foundry Co.
*Bresnahan Shoe Machinery Co. (Shoe Machinery)
*Cilley, W. W. & Co. (Shoe Stitchers)
§Dempsey, John F. & Co.
*Dwyer Machine Co.
*Embree, W. F. & Co. (Machinists)
*Essex Machine Co. (Machinists)
*Essex Engine Co.
*Gallagher Mfg. Co. (Ratchets, Drills, etc.)
*†§GENERAL ELECTRIC CO. (Thomson-Houston Plant). (See Schenectady, N. Y. (See adv. index, end of book)
*Hart, T. F. Machine Co.
*Hemingway Machine Co. (Leather Mach'y)
*Holmes, E. M. (Machinist)
*Knox, Joseph E. & Co. (Rubber Cutting Dies, etc.)
*Osborne, J. W. & Co. (Shoe Stitchers)
*Quarmby & Hilliker (Shoe Machy., etc.)
*Robinson, Henry (Est. of) (Dies, etc.)

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†Smith Iron Foundry, Inc. (All Kinds of Light and Heavy Castings)
*Sanborn, Chas. P. & Co. (Shoe Machy.)
*Stephenson, Chas. H. (Plumbers' Specialties)
*Stewart Bros. (Shoe Machy.)
*Thomson Electric Welding Co. (Elec. Welding Apparatus)
*Young, W. J. Machinery Co. (Shoe Machinery)

MANSFIELD—*Bay State Tap & Die Co. (Taps, Dies, etc.)
*Card, S. W. Mfg. Co. (Dies, Taps, Reamers, etc.)
*†Chilson Furnace Co. (Hot Air Furnaces, Stoves & Banges) (See Boston)
†Mansfield Furnace & Coal Co.
†Shields Foundry Co. (Iron Fdrs.)

MARBLEHEAD—*Burgess, W. Starling (Ltd.) (Ship Repairing, etc.)

MARLBORO—†Beaudry, T. J. (Rubber Cutting Dies, etc.)
*Marlboro Electric Machine & Lamp Co.
*†Parsons Machinery Co. (Special Machy., etc.)

MEDFORD—*†Chelmsford Foundry Co. (Bldrs.' Iron Work & Castings)
*Scott & Sons Co. (Chucks, etc.)
*Wellman Co. (Shoe & Special Machinery)

MERRIMAC—*England, Geo. W.
*§Jonah & George (Brass Specialties)
§Murphy, Geo. W. J., Co.
§Murphy, John H.

METHUEN—*†Sanborn Furnace Co. (Hot Air Furnaces, etc.)

MILFORD—*Damon, J. F. (Machinist)
*Edmands, A. B. (Paper Box Machinery)
†Milford Iron Foundry (Iron Fdrs.)

MILLBURY—*Buck Bros. (Edge Tools, etc.)
*Buck, Chas. Edge Tool Co. (Edge Tools, etc.)
†Millbury Steel Foundry Co. (Steel Castings, Rail Bonds, etc.)

MILLERS FALLS—*†Millers Falls Co. (Machinists' Fine Tools & Hardware Specialties, etc.)

NATICK—*Brewer, A. G. (Machinist)

NEW BEDFORD—†Acishnet Iron Foundry Co.
*Baker Machine Co. (Machinists)
*Davenport Machine Tool Co. (Automatic Machy.)
*MORSE TWIST DRILL & Machine Co. (Twist Drills, etc.) (See adv. index, end of book)
*†§New Bedford Boiler & Machine Co. (Valves & Machinists, etc.)
*†New Bedford Foundry & Machine Co.
*New Bedford Shuttle Co. (See Boston, Mass.)
*Rankin & Arnold
†Swift, Augustus
*Tripp, Frank S.

NEWBURYPORT—*†§Russell, Albert & Sons Co. (Iron Fdrs. & Machinists)

NEWTON—*Empire Laundry Machinery Co. (Laundry Mach'y). (See Boston, Mass.)

NEWTON CENTER—*EVANS FRICTION Cone Co. (Pulleys, etc.) (See adv. index, end of book)
*Gooch, Arthur M.

NEWTON UPPER FALLS—*Gamewill Fire Alarm Telegraph Co.
*†Saco & Pettee Machine Shops (Textile Machinery)

NORFOLK DOWNS—*BOSTON GEAR Works (Gears, Bearings, etc.) (See adv. index, end of book)

NORTH ADAMS—*Arnold Print Works
*†§Hunter, Jas., Machine Co. (Power Transmitting & Textile Machy.)

NORTHAMPTON—*Herrick, Chas. E. (Mchst.)

NORTH ANDOVER—*†§Davis & Furber Machine Co. (Textile Machy.)

NORTHBORO—*Printing Mfg. Co. (Cash Registers, etc.)

NORTH DIGHTON—†North Dighton Co-Operative Stove Co. (Stoves)

NORTH CHELMSFORD—*†Chelmsford Fdry. Co.
*North Chelmsford Machine & Supply Co.

NORWOOD—*†Plimpton, J. E., & Co.

OAKHAM—†Dean, Walter R. (Furnaces, etc.)

ORANGE—*†Chase Turbine Mfg. Co. (Machinists, Millwrights & Fdrs.)
*†§Hunt, Rodney, Machine Co. (Textile Machinery, Pumps, etc.)
*Leavitt Machine Co. (Valve Re-Seating Machy.)
*†New Home Sewing Machine Co. (Sewing Machines)
Union Caliper Co. (Lathe Dogs, Tool Holders, Key Seating Tools, etc.)

OTTER RIVER—†Lord, Stone & Co. (Stoves, etc.)

PALMER—*†Francis, Ralph D.

PEABODY—*Boyle, John Machine Co. (Machinists)
†Marine Hardware Co. (Marine Hdw., etc.)
*Newell & Knowlton, Inc. (Grease Extractors, etc.)
*†Peabody Leather Machy Co. (Leather Machy, etc.)
*†Turner Tanning Machinery Co. (Hide & Leather Working Machinery)

PEPPERELL—*Blake, H. & Son (Machinists)

PITTSFIELD—*†Chapel, A. M. Machine Co.
*†§GENERAL ELECTRIC CO. (See Schenectady, N. Y. (See adv. index, end of book)
*†Jones, E. D. & Sons Co. (Paper Mill & Power Transmitting Machy.)
*Triumph Voting Machine Co.

PLYMOUTH—*Mixter, J. W., Saw Tool Co. (Saws, Gummers, Swages, etc.)
*†Plymouth Foundry (Gas & Oil Stoves, etc.)

QUINCY—*Badger, L. K. & Co. (Stove polishing Machines)
*†Fore River Ship Building Co. (Iron & Steel Ships & Marine Engines, etc.)
*Lizotte, Jos. & Co. (Gas & Gasoline Engines)
*†Wollaston Foundry Co. (See Boston, Mass.

READVILLE—*†Stafford Co. (Textile Weaving Machinery, etc.)

ROCHDALE—*Hankey, A. & Co. (Knives, etc.)

ROCKLAND—*Arnold, H. H.

SAGAMORE—*Keith Car & Mfg. Co. (Car Mfrs.)

SALEM—*Atwood & Morrill (Steam Specialties)
†Central Iron Foundry Co.
*Dinsmore Mfg. Co. (Textile Machy.)
†Eagle Iron Foundry (Inc.)
*Goodell, Zina (Machinist)
*†§Locke Regulator Co. (Steam Specialties)
*Martin, Wm. F. (Leather Finishing Machines)
*Patten, Paul B. (Motors, Car Lifts, etc.)
*Salem Elevator Works (Elevators, etc.)
†Salem Iron Foundry (Inc.)
*§Spencer Regulator Co. (Steam Specialties, etc.)
§Waters, Andrew S.

SALISBURY—*Weare, Samuel W.

SHELBURNE FALLS—*Ducharmes & Co. (Small Tools, etc.)
*Goodell Tool Co. (Small Tools, etc.)
*Mayhew, H. H. Co. (Small Tools, etc.)

SHREWSBURY—*Bennet, Frank

SOMERSET—†Somerset Stove Foundry Co. (Stoves)

SOMERVILLE—*Berry, Charles E.
*Birch Bros. (Textile Machy.)
*Forg, Peter (Machinist & Machy.)
*Phillips Co. (Lubricators, Oil Cups, etc.)
*Roberts Mfg. Co. (Bolt & Wire Clippers, etc.)
†Somerville Iron Foundry (Iron Fdrs, etc.)

SOUTHBRIDGE—*Putney, Newton E.

SOUTH EASTON—*White, F. H. & Co.

SOUTH EGREMONT—*Bliss, W. L.

SOUTH FRAMINGTON — *Manufacturing Equipment & Engineering Co. (Steel Factory Equipment Co.)
*†Robb Engineering Co. (Inc.) (Steam Boilers & Machinists)

SOUTH SUDBURY — *†Hurlbut-Rogers Machine Co. (Machine Tools, etc.)

SPENCER—*Goddard, John E. (Machinist)

SPRINGFIELD—*American Electric Switch Co. (Electric Switches)
*Antiseptic File Co. (Files, etc.)
*Armstrong Machine Co. (Special Machy.)
*Atlas Motor Car Co. (Automobiles)
*Barney & Berry (Skates, etc.)
*†Bausch Machine Tool Co. (Machine Tools & High Grade Castings, etc.)
*Bay State Elevator Co. (Elevators)
*†Bemis Car Truck Co. (Electric Car Trucks, etc.)
*Bemis & Call Hardware & Tool Co. Tools, etc.)
*Blair Mfg. Co. (Lawn Mowers)
*Bullock Mfg. Associates (Watchmakers' Tools, etc.)
*Button Machinery Co. (Button Machinery)
*†Confectioners' Machinery & Mfg. Co. (Confectioners' Machinery)
*Consolidated Wrapping Machine Co. (Wrapping machines)
†Davitt Iron Foundry
*Eldredge Elec. Mfg. Co. (Elec. Specialties)
*§Emory, P. P. Mfg. Co. (Brass Finishers & Fdrs., etc.)
*Ford, Humphrey (Brick Machinery, Castings, etc.)
*GILBERT & BARKER MFG. CO. (Gas Machines). (See adv. index, end of book)
*Hamilton, Thos. W. (Repairer)
§Hampden Brass Co. (Brass & Composition Castings)
*†Hampden Corundum Wheel Co. (Emery & Corundum Wheels, Machinery, etc.)
*Hampren Machine Screw Co. (Screw Machine Products, etc.)
*Hannan-Finton Co. (Machinists)
*Harley Machine Co. (Specialties)
†Hawkins, R. F. Iron Works (Builders' Iron Work, Grey Iron Castings, Engines, Forgings, Bridges, etc.)
*Hendee Mfg. Co. (Motor Cycles)
*§Hercules Float Works (Aluminum & Brass Castings)
*Hopkinson Machine Works (Envelope Machines & Drill Vises), 23 Taylor
*International Machine & Screw Co. (Screw Machines)
*Knox Automobile Co. (Automobiles)
*Marcil & Smith (Jack Screws, etc.)
Millet Brass Co. (Brass, Bronze & Aluminum Castings, etc.)
*†§MONARCH VALVE & MFG. CO. (Valves, Waterworks Supplies, etc.) (See adv. index, end of book)
*†New England Roller Grate Co. (Grate Bars & Castings of All Descriptions)
*OTIS ELEVATOR CO. (See New York City. (See adv. index, end of vook)
*Piper, E. J. (Paper Ruling Machines, etc.)
*Quality Saw & Tool Works (Saws, etc.)
*§Rider-Bagg Co. (Brass Fdrs. & Machinists)
*Russell, John W. & Son Co. (Button Machines & Special Machinery)
*S. & I. Co. (Automatic Machinery, etc.)
*Smith & Wesson (Revolvers, etc.)
†Springfield Foundry Co. (Builders' Ifon Work, etc.)
*Springfield Iron Works (Machine & Drop Forgings, Elevators, Machine Work of All Kinds)
*Springfield Machine Co. (Machinists)
*Stacy, E. S. Machine Co. (Machine Work of all Kinds), 41 Taylor
*§Stebbins, E. Mfg. Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods)
*Swaine, Jno (Machinist & Blacksmith, Iron & Steel Forgings, etc.)
*United Sewing Machinery Co.
†Walsh Boiler & Iron Works
*Waltham Watch Tool Co. (Machine & Watchmakers' Tools, etc.)
*†Wason Mfg. Co. (R. R. Cars, etc.)

STOCKBRIDGE—*Yale, L. M. (Machinist)

SUTTON—*Rice, H. F. (Mill Machy., etc.)

TAUNTON—*Campbell Printing Press Mfg. Co. (Printing Presses, etc.)
*†Cell Drier Machine Co. (Drying Machines, etc.)
*Dary Ring Traveler Co. (Ring Travelers, etc.)
*†Dighton Foundry Co. (Stoves, Furnaces.
*Etna Co. (Twist Drills, etc.)
*†Huber-Hodgman Printing Press Co. (Printing Presses)
*Lincoln-Williams Twist Drill Co. (Drills, etc.)
*†§Mason Machine Works (Textile Machinery)
*New Process Twist Drill Co. (Twist Drills, etc.)
*Strange, Chas. E. (Box Makers', Stave & Heading Machy., etc.)
*Strange, E. W. & Co. (Machinists)
*Taunton-New Bedford Copper Co.
†Thomas, Oscar G. (Stoves & Iron Fdry.)
§Trefethen, Daniel A. (Brass Fdry.)
*†Weir Stove Co. (Stoves)
*†White-Warner Co. (Stoves, etc.)

WAKEFIELD—*Purrington, Elwin I.
*§Sanitas Mfg. Co. (Plumbers' Specialties)
*†§Smith & Anthony Co. (Stoves, Ranges & Plumbing Specialties)

WALPOLE—*†Fales, L. F. (Paper Slitting Machines, Swing Machines, etc.)

WALTHAM—*American Watch Tool Co. (Watchmakers' Machines & Tools)
*AMES, B. C. & CO. (Watch & Clock Machy., etc.) (See adv. index, end of book)
*†Davis & Farnum Mfg. Co. (Cast Iron Pipe, etc.)
*STARK TOOL CO. (Clock & Watchmakers' Tools, Precision Lathes, etc.) (See adv. index, end of book)
*Superior Corundum Wheel Co. (Grinding & Polishing Machinery, etc.)
*Waltham Emery Wheel Co.
†§Waltham Foundry Co. (Iron & Brass Castings, etc.)
*Waltham Machine Works (Watch & Clock Machy.)
*Waltham Watch Co. (Watches, etc.)

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WARREN — *†§**MONARCH VALVE & Mfg. Co.** (Valves, Waterworks Supplies, etc.) (See adv. index, end of book)
*†§Perkins Machine Co. (Drop Hammers, Power Presses, Punching & Shearing Machy., etc.)
*†Warren Steam Pump Co. (Steam Pumps, etc.)

WATERTOWN—*Massachusetts Fan Co. (Blowers, Fans, etc.)
*§Non-Corrosive Metal Co. (Carriage Hardware, Rustless Nickel Steel & Phosphor Bronze Castings)
*†§U. S. Arsenal Foundry
*†§Walker & Pratt Mfg. Co. (Stoves, Furnaces, Radiators, Cooking Apparatus, etc.). Office, Boston, Mass.

WEBSTER—*†§Prescott, J. B., & Son

WEST BOYLSTON—*Ovenden, W. C.

WESTFIELD—*Foster Machine Co. (Machinists & Textile Machy.)
*Lounsbury, Chas. J.
*Moore, M. E. & Son (Whip Machy.)
*Palmer, Henry A. (Machinist)
*†Pope Mfg. Co. (Bicycles, etc.)
*Rogers & Whiting Co. (Hardware, etc.)
*†Smith, H. B. Co. (Steam Heating Apparatus, Radiators, etc.)

WEST MANSFIELD—*Richardson & Bottomley (Shuttle Irons, etc.)

WEST WAREHAM—*†§Tremont Nail Co.

WHITINSVILLE—*†§Whitin Machine Works (Textile Machy.)
*Whitinsville Spinning Ring Co.

WHITMAN—*Pearson, Walter, & Co. (Machinist)

WILLIAMSBURG—*Thayer Mfg. Co. (Small Tools, etc.)

WINCHENDON—*†Alaska Freezer Co. (Ice Cream Freezers, etc.)
*Goodspeed Machine Co. (Woodworking Machinery)
*†§Hill & Bosley (Iron Founders)
*New England Lock & Hinge Co.
*†Whitney, Baxter D. & Son (Woodworking Machy.)

WINCHESTER—*Whitney Machine Co. (Machinists)

WOBURN—*Clemson Knife Co. (Hack Saw, Knives, etc.)
*†§Smith & Wallace (Elec. R. R. Supplies)
*†§Woburn Machine Co. (Machinists & Millwrights)

WOLLASTON—*Emery, V. J. (Gasoline Marine Engines)

WORCESTER—*Adams, John J. (Dies, Shoe Machy., etc.), 81 Mechanic
*†**AMERICAN STEEL & WIRE CO.** of New Jersey (See Chicago, Ill. (See adv. index, end of book)
*†Ames Plow Co. (See Boston)
†Arcade Malleable Iron Co. (Malleable Iron & Steel Castings), Washington sq
*Barr, H. G. & Co. (Machine Tools)
*Boynton & Plummer (Machine Tools, etc.)
*Brown, Wm. H. Co. (Carders' Tools), 81 Mechanic
*Brownell, G. L. (Spring Twisting & Spinning Machy., etc.), 49 Union
*Burlingame, A. Co. (Steam Engines, etc.)
§Cahill Mfg. Co. (Brass Fdrs. & Finishers)
*COATES CLIPPER MFG. CO. (Sheep Clippers, Flexible Shafts, etc.) (See adv. index, end of book)
*COES, LORING & CO., Inc. (Machine Knives, etc.) (See adv. index, end of book)
*COES WRENCH CO. (Wrenches, etc.), Coes sq. (See adv. index, end of book)
†Colvin, J. A. (Iron Fdry.)
*†Crompton & Knowles Loom Works (Textile Machy.), Grand & Tainter
*†Curtis & Marble Machine Co. (Textile)
*Dawson Machine Co.
*Desper, M. A. Mfg. Co.
*Eagan, Thomas F. Hardware Co.
*Economic Machinery Co. (Label Machy.)
*Elliot & Hall (Cloth Folders)
*Fairbanks, Geo. L. & Son, 166 Union
*Gessner, David (Textile Machinery), 172 Union
*Greendale Gas Engine Co. (Gas & Oil Engines), W Boylston & Fales
*Hardy, L. Co. (Machine Knives, etc.)
*Harrington & Richardson Arms Co. (Fire Arms, etc.)
*Harris Car Co. (Automobile & Lunch Wagons)
*Harwood & Quincy Machine Co. (Woolen Machines)
*Heald Machine Co. (Machine Tools & Grinding Machy.)
*Hobbs Mfg. Co. (Paper Box & Woodworking Machy., etc.)
*†Holyoke Machine Co. (See Holyoke, Mass.)
*Jacques, John & Son (Shears & Cord Cutting Machy.), 95 Webster
*Jenckes, E. Mfg. Co. (Wire Goods)
*Johnson & Bassett (Wool Spinning Machines)
*Kidder, R. E. (Envelope Machines, etc.)
*Knight, E. O. (Gas Engines, etc.), 86 Foster
*Leland, Wm. H. & Co. (Crankshafts, Tool Grinders, etc.)
*Lowell Wrench Co. (Ratchet Die Stocks, Drills, etc.)
*Lombard Machine Co. (Woolen Machinery), 64 School
*Luther, B. G. & Co. (Woodworking Machy., etc.), 91 Foster
*Mason, Marcus & Co. (See New York City)
*Massachusetts Machine Shop (Inc.) (Crankshafts, Dies, Tools, etc.)
*McMahon & Co. (Friction Clutches, Pulleys, etc.)
*Matthews Mfg. Co. (Stove Trimmings, etc.), 104 Gold
*Miller, Horatio L. (Card Grinders, etc.)
*†Morgan Construction Co. (Wire & Rolling Mill Machy., etc.), 21 Lincoln
*Morgan Spring Co. (Agl. & Machy. Springs, etc.), W. Boylston, Barber's
*National Mfg. Co. (Wire Goods, Wire Work, etc.)
*Norton Grinding Co. (Grinding Wheels, Grinding & Polishing Machinery, etc.)
*Parker, Jno. L. & Co. (Ferrules, etc.)
†Pero Foundry Co., 23 Hermon
*§Pond, L. W. Machine & Fdry. Co. (Grey Iron Castings, etc.)
*Prentice Bros. Co. (Machine Tools, etc.),
†Reed Foundry Co. 667 Cambridge
*Reed, Francis Co. (Upright Drills, etc.)
*Reed, F. E. Co. (Machine Tools), 122 Gold
*Reed & Curtis Machine Screw Co., 108 Gold
*!Reed & Prince Mfg. Co. (Machine Screws, etc.), Duncan av, nr Cambridge
*†§Rice, Barton & Fales Machine & Iron Co. (Paper & Pulp Mill Machinery), 65 Tainter
*†Richardson Mfg. Co. (Mowing Machines, etc.)
*Robbins Machine Co. (Lathes, etc.)
*Roy, B. S. & Son (Textile Machy., etc.)
*Savels, O. M. & Co. (Dies, etc.), East Worcester
*Sawyer, Thos. J., 47 Hermon
Smith, Thos. & Co. (Bolts, Nuts, Link Chains, etc.)
*Snyder, J. E. & Son (Machine Tools)
†Standard Foundry Co. (Machy. Castings, etc.), Tainter & Gardner
*Standard Plunger Elevator Co. (Elevator Builders, etc.)
†Steel, W. M. Switchboard Co. (Switches & Switchboards)
*Stockbridge Machine Co. (Shaping Machines, etc.)
*Stoddard, Haserick, Richards & Co. (Tex-
§Taylor, Walter B. tile Machy.)
*§**UNION WATER METER CO.** (Meters, Regulators, etc.) (See adv. index, end of book)
*W. & S. Mfg. Co. (Dies, Discs, etc.)
*Walker Grinder Co. (Machine Tool Grinders), 25 Union
*Walker, Oakley S. & Co. (Machine Tool Grinders, etc.), 25 Union
§Wells Chemical Bronze Works (Brass, Copper, Tin, Zinc, Comp. & Bronze Castings), 219 Summer
†Wheeler Foundry Co.
*†Whitcomb-Blaisdell Machine Tool Co. (Machine Tools, etc.), 134 Gold
*Windle, J. E. (Textile Machinery)
*Winslow, Samuel Skate Mfg. Co.
*Woodward & Powell Planer Co. (Machine Tools, etc.), 99 Webster
§Worcester Brass Co.
*Worcester Electric Mfg. Co. (Electric Switches, etc.), 42 Lagrange
*Worcester Lawn Mower Co. (Lawn Mowers, etc.)
*Worcester Machine Screw Co. (Screws, Engine Studs, etc.)
*†Worcester Plunger Elevator Co. (Elevator Builders, etc.)
*WORCESTER PRESSED STEEL Co. (Stove Trimmings, Auto & Bicycle Parts, Ferrules, etc.), 100 Beacon. (See adv. index, end of book)
*Worcester Pressed Steel Pulley Co. (Pressed Steel Pulleys)
*Worcester Textile Machine Co. (Textile Machinery)
*Worcester Warp Compressing Machine Co.
*Young Machine & Tool Co. (Machinists' Tools, etc.)

WRENTHAM—*Winter Bros. Co. (Taps & Dies, etc.)

## MICHIGAN.

ADRIAN—†Adrian Steel Casting Co. (Light Crucible Steel Castings, etc.)
*Bond Steel Post Co. (Steel Posts, etc.)
*§Breedon, Jacob
*Church Bros. (Pumps, Gas Engines, etc.)
*†§Kells Foundry & Machine Co. (Brick & Drain Tile Machy., etc.)
*Page Fence Gas Engine Co.
*Page Woven Wire Fence Co. (Machine Shop for the Company's Own Use)
*Riverside Co. (Dairy & Cheese Machinery)

ALBA—*Jones Mfg. Co.

ALBION—†Albion Malleable Iron Co. (Agl. Implts. & Carriage Castings)
*†Cook Mfg. Co. (Gas & Gasoline Engines)
*†Gale Mfg. 5Co. (Agl. Implts., etc.)
*Prouty, T. C. Co. (Ltd.) (Door Hangers, etc.)

ALMA—*Alma Mfg. Co. (Gasoline Engines, etc.)
*†Montingel, J. M. (Agricultural Implements, etc.)

ALMONT—*†Lee, Robert E.

ALPENA—*§Hanson, Andrew
*†§Kline, Lewis T. (Excelsior Machines, Baling Presses, Automatic Lathes, etc.)

ANN ARBOR—*†Ann Arbor Machinery Co. (Agl. Impits., Hay Presses, etc.)
*Ann Arbor Marine Engine Co. (Marine Engines, etc.)
*§Climax Specialty Co. (Plumbers' Specialties)

BATTLE CREEK—*A. B. Stove Co. (Casters, Gasoline Stoves, etc.)
*ADVANCE PUMP & COMPRESsor Co. (Steam Pumps). (See adv. index, end of book)
*†Advance Thresher Co. (Agl. Implts., etc.)
*Allen-Kneeland Motor Co. (Motors, etc.)
*†§American Steam Pump Co. (Steam Pumps, etc.)
*†Brennan, John & Co. (Boilers, etc.)
*†§Duplex Printing Press Co. (Printing Machinery)
*§Globe Mfg. Co. (Nebulizers, Elec. Air Pumps, Comp. Air Vibrators, etc.)
*Johnson Automatic Sealer Co. (Sealing Machy.)
*Johnson Engineering & Cons. Co. (Structural Steel & Iron Work), Battle Creek, Mich.
*Kneeland Mfg. Co. (Gas Engines)
*†Nichols & Shepard Co. (Agl. Implts.)
*Prims Machy. Co. (Bakers' Machinery, etc.)
*Ritchie, Gavin & Sons (Grease Cups)
*§Sherman, H. B. Mfg. Co. (Brass Fdrs. & Finishers)
*†§UNION STEAM PUMP CO. (Steam pumps, etc.) (See adv. index, end of book)
*†United States Register Co. (Hot Air Register)

BAY CITY—*†§Bay City Iron Co.
*Bay City Tool & Machine Co.
†Black, Hamilton
†Excelsior Foundry Co. (Grey Iron Castings)
*†§Garland, M. Co. (Saw Mill & Salt Well Machy., Steam Engines, Iron Fdrs., etc.)
*General Machinery Co. (Gas Engines, etc.)
*§Great Lakes Brass Foundry (Car & Engine Brasses. etc.)
*†§Industrial Works (Cranes, Hoisting Engines, etc.)
*†§MacKINNON BOILER & MAchine Co. (Machinery & Brass & Iron Castings, etc.) (See adv. index, end of book)
*†Marine Iron Co. (Mining Machy., Hoisting Engines, Iron Fdrs., etc.)
*Meister, R. & Son (Machinery)
*National Cycle Mfg. Co. (Bicycles)
*Pierce-Budd Co. (Marine Gasoline Engines)
*Schwartz, Joseph (Machine Work)

BELDING—*Ballou Mfg. Co. (Gas & Gasoline Engines, etc.)

BENTON HARBOR—*†Baute, Henry
†Benton Harbor Malleable Foundry Co. (Malleable Iron Castings & Journal Boxes)
*†Covel Mfg. Co. (Saw Sharpening & File Room Machinery)
*§Metal Sectional Furniture Co. (Metal Furniture, Computing Machines, etc.)

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*Rosback, Frederick P. Co. (Printers' & Bookbinders' Machinery, etc.)
BIG RAPIDS—*Hanchett Swage Works (Filing Room Outfits)
†Hanchett Hot Blast Grate Co.
BLAINE—†Fair & Sons (Plows)
BLISSFIELD—*Blissfield Motor Works (Motors, Drills, Tilting Vises, etc.)
†Davenport, Harry C.
BOYNE CITY—*†§B. C. G. & A. R. R. Co.
†White, W. H., Foundry Co.
BROWN CITY—†McKnight, Jno. J.
BUCHANAN—*Black, Geo. H. (Garden Plows)
*†Lee & Porter Mfg. Co. (Carriage Axles, etc.)
BURR OAK—*†Sheffield Mfg. Co. (Corn Planters)
CADILLAC—*†Cadillac Machine Co.
CALUMET—*†§Calumet & Hecla Mining Co.
CAMDEN—*Baker, L. S.
CARO—*†Riddle, Frank D. (Machinist & Foundry)
CARSON CITY—*Waters, J. T.
CHARLEVOIX—*†Washburn, O. S., & Son
CHARLOTTE—*Beach Mfg. Co.
*§Hancock Mfg. Co. (Automatic Oilers, etc.)
CHEBOYGAN—*Blake, H. A. & Son (Brass & Iron Foundry)
CHELSEA—*Chelsea Stove & Mfg. Co. (Oil & Gas Stoves & Ranges)
COLDWATER — *§Champion Brass Works (Brass & Aluminum Castings, etc.)
*Loring, Sanford (Machinist)
*Regal Gasoline Engine Co.
†Titus, Thurlow (Iron Fdry.)
COMSTOCK—*†Comstock Mfg. Co. (Steam Engines & Power Transmitting Mach'y.)
*Davis, W. T. & Co.
COOPERSVILLE—*Root, G. L., Co.
DETROIT—†Acme Foundry Co. (Iron Fdrs., Gray Iron Castings), Isabella & Michigan avs
§Allyne Brass Foundry Co. (Brass Fdrs. Finishers, etc.), 777 Bellevue av
*†American Blower Co. (Engines, Blowers, Fans, etc.)
*†§American Brass & Iron Co., Trombley av. & Crystal
*American Bridge Co. (See Pittsbugr, Pa.)
*†American Car & Fdry. Co., 443 Ferry. (See St. Louis, Mo.)
*American Electrical Heater Co. (Elec. Heating Appliances), 121 State
*†American Harrow Co. (Agl. Implements), 1486 Hastings
*§AMERICAN INJECTOR CO. (Injectors, Lubricators, etc.) (See adv. index, end of book)
*§American Lubricator Co. (Lubricators & Brass Fdrs. & Finishers, etc.)
*†§American Motor Casting Co. (Aluminum & Brass Motor Castings & Washing Machines)
*†American Radiator Co.
*†American Vapor Stove Co., 18 E. Atwater
*†Art Stove Co. (Stoves, etc.), 1555 Russell
*Austin Separator Co. (Steam & Oil Separators, etc.), 55 W. Woodbridge
*Baird Machine & Mfg. Co. (Pharmaceutical Machy., etc.), 11 Raynor
*Barnes Motor Car Co. (Automobile Bdrs.)
†Bellevue Furnace Co.
*Bolles, J. E., Iron & Wire Works, 4th av. and Porter
*Bower Roller Bearing Co. (Roller Bearings)
*Briscoe Mfg. Co. (Machinists)
*§Bryant & Berry Co. (Brass Founders, etc.), 32 Atwater, W.
†Buhl Malleable Co. (Grey & Malleable Iron Castings, etc.)
*Burroughs Adding Machine Co. (Adding Machines)
*†Byram & Co., Inc. (Foundry Machinery, Cars, Cranes, Tumbling Barrels, etc.) 435 Guoin
*†§Cadillac Motor Car Co. (Automobiles)
*§Caille Bros. Co. (Coin Operating Machines), 1300 2d av
§Capitol Brass Works (Valves, Brass Fdrs. & Finishers, etc.)
†Central Foundry Co. (Grey Iron Fdrs., etc.), 195 Atwater
*Chicago Pneumatic Tool Co. (Boyer Branch, Pneumatic Tools), 1301 2d av
*§Clayton & Lambert Mfg. Co. ( Plumbers' & Tinners' Tools)
*Colton, Arthur Co. (Pharmaceutical & Special Light Machinery)
†Co-operative Foundry Co. (Castings for Water, Gas & Chemical Works, etc.)
†Cope Pattern Works, 30 Brush
*Currie Machine Co. (Special Machinery, Models, etc.)
*†Detlaff, Anthony J., 121 Champlain
†Detroit Bath Tub & Brass Mfg. Co., 93 W Baltimore av
*§Detroit Brass Works (Cocks, Valves, etc.)
*Detroit Edge Tool Works (Edge Tools, etc.), Wight & Mt. Elliott avs
*Detroit Emery Wheel Co. (Grinding Machy., etc.), Jefferson & Field avs
*†Detroit Engine Works (Engines, etc.)
*Detroit Heating & Lighting Co. (Steam Heating Apparatus, Gas Machines, etc.), Wight & Leib
*§Detroit Injector & Brass Mfg. Co. (Steam & Plumbers' Goods, etc.)
*§Detroit Lubricator Co. (Lubricators & Steam Separators)
*§Detroit Motor Casting Co. (Auto Brass Goods & Power Boats), 299 Beaufait av
†Detroit Register Co. (Hot Air Registers & Hdw. Specialties), 66 State. Works: Milan, Mich.
*Detroit River Iron Works (Steam & Gas Engines), 665 E Atwater
*§Detroit Sanitary Supply Co., 1191 2d av
*Detroit Screw Works (Screws & Special Machinery), 346 Franklin
*†§Detroit Shipbuilding Co. (Iron & Steel Ships, Marine Engines & Iron & Brass Founders & Finishers), ft Orleans
†Detroit Steel Casting Co. (Steel Castings), 1245 Michigan av
*†Detroit Stoker & Foundry Co. (Light & Heavy Grey Fdrs., Automobile Stoker, etc.), 2642 E Grand boul
*†§Detroit Stove Works (Stoves, Ranges, etc.), 1328 Jefferson av
*Detroit Twist Drill Co. (Twist Drills, Chucks, Reamers, etc.), 646 W. Fort
†Detroit Vapor Stove Co., 411 Franklin
*Dodge Bros. (Special Machy.)
*Du Brie Motor Co. (Marine & Stationary Engines), 436 Guion
*Dutton, J. B. (Scales, etc.), 1026 Scotten av
*Eclipse Mfg. Co. (Tools, Dies & Gears, etc.), 47 Fort, E
*Ellis & Ford Mfg. Co. (Pipe Cutters)
†Enterprise Foundry Co. (Light Grey Iron Castings), 1127 Warren av
*§Essex, G. B., Brass Co. (Lubricators & Brass Founders & Finishers), 482 Franklin
*Everitt-Metzger-Flanders Co. (Automobile Builders)
*Fisher Electrical Works (Dynamos & Motors), 183 W Larned
*Fuller Co. (Engines & Electric Ventilating Apparatus, etc.), 1566 Russell
*Gear Grinding Machine Co. (Gears, etc.)
*Gemmer Mfg. Co. (Auto Engines, etc.)
*Gies Gear Co. (Transmission Gears), 45 E. Fort
*Gray Motor Co. (Gasoline Marine Motors)
*†§Great Lakes Engineering Works (See Ecosse, Mich.), 308 Atwater
*†Griffin Wheel Co. (See Chicago, Ill.)
§Hackett Bros., 240 Lillibridge av
*Hale Machinery Co.
*†Harvey's, A. Sons Mfg. Co. (Steam Heating Apparatus, etc.)
*Huetteman & Cramer Co. (Brewers' & Refrigerating Machy., etc.), 666 Mack av
*†Ideal Furnace Co. (Furnaces, Registers, Heating Specialties, etc.), 66 State
†§Ideal Mfg. Co. (Gas Ranges, Plumbers' Brass Goods & Iron & Brass Founders)
*INGLIS, WM. WIRE & IRON Works, 59 Woodbridge, E. (See adv. index, end of book)
§Ireland & Matthews Mfg. Co. (Plumbers' Specialties, Stove Trimmings, Saddlery, Hdw., etc.), Wright & Mt. Elliott
*Jefferson Iron Works Co. (Engines, Crussers, etc.), 7 Jefferson av
*†Jenks & Muir Mfg. Co. (Brass & Iron Bedsteads)
*Johnston, Frederick G., 56 2d av
*†Kahl, Fred'k (Iron Fdry. & Machinist), 14 St. Aubin av
*Kennedy & Greig Co., 211 2d
*Lamont & Steers Engine Co., 1470 Jefferson av
*Lauer, Jno. Machine Co. (Crankshafts & Special Machy.), 110 St. Antoine
*Lauhoff, Frank (Flour Mill Machy.), 35 Chene
*§Lavigne Mfg. Co. (Lubricators, Valves, Oilers, etc.)
*Liebig, Wm., & Co. (Brush Machy.), 14 Macomb
*Lloyd Construction Co. (Gas Works Machinery), 860 Greenwood
*†Lozier Motor Co. (Gasoline Engines, etc.)
*McDonough Automatic Regulator Co., 302 Grand River av
*§McRAE & ROBERTS CO. (Brass Fdrs. & Steam & Plumbing Brass Goods, etc.), 227 Campbell av. (See adv. index, end of book)
*Mead & Co. (Pulverizing Machy., etc.), 19th & Newark
*Michigan Auto Parts Co. (Gasoline Engines, etc.)
*§Michigan Copper & Brass Co. (Brass Goods, etc.), 1610 Jefferson av
†Michigan Grey Iron Casting Co., Harbaugh av & Wabash R R
*§Michigan Lubricator Co. (Lubricators, etc.), 661 Beaubien
*†Michigan Malleable Iron Co. (Malleable Iron Castings, etc.), Crossley & Anderson avs
*†Michigan Sprocket Chain Co. (Conveyors, Sprocket Wheels)
*†§Michigan Stove Co. (Stoves & Ranges, "Garland"), 1022 Jefferson av
*Middleditch, Benjamin (Sprue Cutters, etc.), 97 Meldrum av
†Monarch Foundry Co., 895 Greenwood av
†Monarch Steel Casting Co. (Steel Castings, Car Couplers, etc.)
*Morehead Mfg. Co. (Steam Traps & Plumbers' Specialties), 1041 Grand River
*Mueller, Chas. R. av
*MURCHEY MACHINE & TOOL Co. (Pipe Cutting, Threading & Tapping Machines, etc.), 52 Porter, c 4th av. (See adv. index, end of book)
*†Murphy Iron Works (Smokeless Furnaces), ft of Walker
*Murray Automatic Boiler Feed Co. (Boiler Feeders, etc.), 807 Scotten av
*§National Fulton Brass Mfg. Co. (Brass & Bronze Castings, Bearings, etc.), 28 Brush
*NORTHERN ENGINEERING WKS. (Foundry Equipment, Cranes, Hoists, etc.), 9 Chene (See adv. index, end of book)
*Northway Motor & Mfg. Co. (Gas & Gasoline Engines, Axles, etc.)
*Oelman, Curt E. (Dough Mixing & Macaroni Machinery., etc.), 226 St. Antoine
*Osborn, F. C. Co. (Special Machy.), 67 Larned, W
*P. R. Mfg. Co. (Electr'l & Hdwe. Specialties, etc.), 621 Bellevue av
*Packard Motor Car Co. (Motor Trucks, etc.)
*Palmer-Bee Co. (Engineers & Machinists for Power Transmission, etc.)
*Pelton & Crane (Elec. Specialties), 11 Raynor
*§Penberthy Injector Co. (Engineering & Steam Specialties, etc.), 346 Holden av
*Peninsular Brass Works
*Peninsular Emery Wheel Co. (Emery Wheels & Emery Wheel Machy), 253 Meldrum
*†Peninsular Stove Co. (Coal & Gas Stoves, Ranges & Furnaces)
*†Railway Steel Spring Co. (See New York City)
*Rice, D. E. (Machinist, Combined Pump & Heater, etc.), 193 Atwater
*Roberts Brass Mfg. Co. (Plumbers' Brass Goods, etc.)
*Rogers, C. T. & R. R. Co. (Milk Condensing Machinery, etc.), 34 Chope pl
*Ross & Young Machine Co. (Dies & Tools, etc.), 9 Center
*†RUSSEL WHEEL & FOUNDRY Co. (Cranes, Cars, Wheels, Car Trucks, Castings, Special Machy., etc.) (See adv. index, end of book)
†Schwarz Foundry Co., 613 Fort
*Schweppe & Wilt Mfg. Co. (Gears, etc.)
*Scripps Motor Co. (Gasoline Marine Motors)
*§Sherwood Brass Works (Brass Finishers, etc.), 1167 Jefferson av
*Sibley-Houfly Machnei Co. (Gasoline Engines, etc.)
*Smith, Jos. N. & Co. (Brass Finishers & Platers, Automobile & Bicycle Works, etc.), 52 Porter
*Smith, Peter, Heater Co. (Ca Heaters, etc.), 328 Rivard
§Standard Brass Works (Brass Founders, etc.), 528 E Woodbridge
*Standard Computing Scale Co. (Computing Scales), 153 E. Fort
†Standard Foundry Co. (Iron Fdrs. & Heaters, etc.), 22 Chene
*Stecker Electric & Machine Co.
*†§Stephens, Roe Mfg. Co. (Brass Fdrs., Finishers & Steam Brass Goods, etc.)

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*§Sterling & Skinner Mfg. Co. (Brass Fdrs & Finishers & Steam Brass Goods)
*†Stimpson, W. F. Co. (Computing Scales) 24 Antietam
*Strelinger Marine Engine Co. (Marine Engines), 46 Congress
*Tessmer Machine & Tool Co., 285 Rivard
§Thiery & Kendricks Mfg. Co. (Aluminum, Brass & Bronze Castings, etc.)
*§Trio Mfg. Co. (Brass Auto Parts, etc.), 60 W. Woodbridge
*†Uniter States Radiator Corp. (Steam & Hot Water Heaters, Radiators, etc.)
*VOELKNER & HARRY MANUFACturing Co. (Hardware & Brass Goods), 282 Woodbridge, E. (See adv. index, end of book)
§Walz, Christopher, 278 Division
*Watson, Nelson M. (Machinery Specialties), 4 Park pl
*†Whitehead & Kales Iron Works (Iron Fdrs. & Steel Structural Work)
†Wolverine Foundry Co. (Grey Iron Castings), 936 Bellevue av
*Woodbridge Machine Works (Special Machinery, etc.), 129 Brush
*Wright Mfg. Co. (Steam Traps & Steam Specialties), 59 W Woodbridge
DOWAGIAC—*†Beckwith, P. D. (Inc.) (Stoves, Heaters, etc.)
*†Dowagiac Mfg. Co. (Agl. Implts., Seeding Machinery, etc.),
EAST JORDAN—*†§Malpass Bros.
EATON RAPIDS—*†Eaton Rapids Foundry Co. (Furances, etc.)
ECORSE—*†§Great Lakes Engineering Works
ESCANABA—*†§Chatfield Brass & Iron Works
EVART—*Champion Tool & Handle Co. Co.
*Evart Tool Co. (Lumbering Tools, etc.)
FENTON—*†§Walker Mfg. Co. (Pumping Engines & Castings, etc.)
FLINT—*†§Buick Motor Car Co. (Motors & Altomobile)
*Cook Car Journal Cooler Co.
*Fleetwood Engineering Co. (Gas Engines)
*Flint Axle Works (Axles, etc.)
*†Genesee Iron Works (Iron Fdrs.)
§Michigan Motor Casting Co.
*Weston-Mott Co. (Automobile Parts, Axles,
FRANKFORT—*†§Markham, F. E. etc.)
GLADSTONE—*Marble Safety Axe Co.
GRAND HAVEN—*†Challenge Machinery Co. (Printing Presses, etc.)
*†§Dake Engine Co. (Pneumatic Cranes, Hoists & Motors, Stearing Gears, etc.)
GRAND LEDGE—*†Streeter, Hiram R.
GRAND RAPIDS—†American Seating Co. (See Chicago, Ill.)
*Austin & Son (Saw Mill Mach'y, etc.)
*Baldwin, Tuthill & Bolton (Saw Mill Mach'y, etc.)
*†§Butterworth & Lowe, Inc. (Iron Fdrs. & Mfrs. of Woodworking Mach'y)
*†Crescent Machine Works (Edw. Tannewitz, Prop.), (Fdry. & Machinist)
*Dodds, Alex. (Woodworking Machy., etc.)
*Edge, Frank & Co. (Saws & Saw Machy.)
*Elliott Machine Co.
*†Fox Machine Co. (Wood & Metal Working Machinery, etc.)
*Gillette Roller Bearing Co. (Vehicle Roller Bearings)
*Globe Vise & Truck Co. (Vises, etc.)
*§Grand Rapids Brass Co. (Brass Fdrs. & Finishers)
†Grand Rapids Foundry Co. (Iron Fdrs.)
*†Grand Rapids Furnace Co.
*Grand Rapids Gas Engine & Yacht Co. (Gas Engines & Yachts)
*Grand Rapids Hdw. Co. (Sash Pulleys & Hdw. Specialties)
†Grand Rapids Malleable Co.
†Haney School Furniture Co.
§Harring, F. J. & Co. (Brass Castings,
*†Hartman, Henry J. Foundry Co. etc.)
†Ideal Foundry Co.
§Keeler Brass Co. (Brass Fdrs. & Finishers, etc.)
*Knape, Jno. Machine Co. (Machinists)
*†§Leitelt, Adolph, Iron Works (Iron Fdry. & Builders' Iron Work, etc.)
*Michigan Wheel Co. (Propeller Blades, Marine Gears, etc.)
†Miller Furnace Co. (Furnaces)
*Munson Co. (Edge Tools, etc.)
*Oliver Machinery Co. (Woodworking & Pattern Shop Machinery)
*†§Perkins & Co. (Shingle Mill Machy., Gas Engines, etc.)
*Porter, C. O. Machinery Co. (Woodworking Machinery, etc.)
*Rapid Heater Co. (Hot Water Heaters. etc.)
*†Rathbone Fireplace Mfg. Co. (Fireplace Furnishings & Castings)
†§Rempis & Gallmeyer Foundry Co. (Iron & Brass Fdrs. & Concrete Machy)
†Rhodes Mfg. Co. (Hot Rir Furnaces)
*Stone, J. B. Co.
*Tannewitz, Edw. (Special Machy)
*Valley City Machine Works (Woodworking & Grinding & Polishing Machinery)
*†Vulcan Foundry Co. (Boilers, Pipes, Fittings, etc.)
*West Michigan Machine & Tool Co. (Ma-
*West Side Iron Works chinists)
*WILMARTH & MORMAN CO. (Drill & Tool Grinders, etc.) (See adv. index, end of book)
§Wolverton Brass Works (Brass Fdrs. & Finishers)
GREENVILLE—*†Gordon Hollow Blast Grate Co. (Grate Bars & Woodworking Machinery)
*†Greenville Implement Co. (Plows & Implements)
*†Moore Plow & Implement Co. (Agl. Implts., Plows, etc.)
*†§Tower, R. J., Iron Works (Mfrs. Ma-
HANCOCK—*†§Hodge Iron Co. chinery)
*†§Portage Lake Foundry & Machinery Co. (Mining Machinery, Castings, Chilled Car
§Ward & Williams Wheels, etc.)
HARBOR SPRINGS—*Shay, E. & Son (Machinists, etc.)
HASTINGS—*Consolidated Press & Tool Co. (Power Presses)
HILLSDALE—*†Alamo Mfg. Co. (Gas & Gasoline Engines, etc.)
HOLLAND—*†Buss Machine Works (Machin-
†Holland Furnace Co. ists)
*§Huntley, Alfred
*Western Machine Tool Works (Machine
HOLLY—*†§McGonegal & Son Tools)
HOUGHTON—*†§Carroll Foundry Co.
HUDSON—*Abbott & Co. (Carriage Bldrs.'
*Abbott, W. H. Machinery)
*Hardie Mfg. Co. (Painting & Spraying Machines)
*†§Hazen Mfg. Co. (Pumps, etc.)
IMLAY CITY—*Parker, Eli F.
IONIA—†Stafford, E. H. Mfg. Co.
†Stafford, E. H. Mfg. Co.
ISHPEMING—*Walseth, Ole
JACKSON—*Aspinwall Mfg. Co. (Potato Machinery, Planters, Diggers, etc.)
*Blessing, Louis (Flour Mill & Paper Box
*Butcher & Gage Machy., etc.)
*Cement Machy. Co. (Concrete Bldg. Block Machy. & Devices)
†Central Foundry Co.
*Clark, E. C. Motor Co. (Motors, etc.)
†Cobb, Wm.
*Dennis Machine Co. (Wood Working Machinery, etc.)
*Field-Brundage Co. (Gasoline Engines & Motors)
*Frost Gear & Machine Co. (Gears, Pinions, etc.)
*†§General Distributing Co. (Iron Founders
*Hartwick Machine Co. & Machinists)
*Hutchinson, Jno. Mfg. Co. (Corn Shellers, Feeds Mills, etc.)
§Jackson Brass Fdry. Co.
*Knickerbocker Co. (Flour Mill & Cement Machy.)
*Lewis Spring & Axle Co. (Axles, Springs, etc.)
†§Lusk Foundry Co. (Aluminum, Brass & Grey Iron Castings)
*Miles Mfg. Co. (Concrete Building Block Machines)
*†Novelty Mfg. Co. (Stoves, Hot Air Registers)
*Reinforced Concrete Pipe Co. (Cement
*Sanford, James A. Pipe Machy.)
*Shredder Mfg. Co. (Cabbage Cutting Machines, etc.)
*Stringer Machine Co. (Cement Machy.)
*Walcott & Wood Machine Tool Co. (Machine Tools, Lathes. etc.)
KALAMAZOO—*Bennett & Co. (Cigar Vending Machines)
*Blood Bros. Machine Co. (Auto Specialties
*Burtt Mfg. Co. (Gasoline Engines, Tire Setters, etc.)
*†Clarage Fdry. & Mfg. Co. (Grey Iron Castings Blower Mfrs., etc.)
*†Clark Engine & Boiler Co. (Steam Engines, etc.)
*Cook's Standard Tool Co. (Railway & Auto Appliances, etc.)
*†Dutton, C. H. Co. (Steam Engines, etc.)
*General Gas Light Co. (Gas Lighting Appliances)
*Harrow Spring Co. (Harrow Springs & Teeth, etc.)
§Henderson-Ames Co. (Regalias, etc.)
*†Hill, W. E. & Co. (Saw Mill Machinery, etc.)
*Humphrey Co. (Instaneous Water Heaters, etc.)
*†Kalamazoo Fdry. & Machine Co.
*Kalamazoo Machine & Tool Co.
*†Kalamazoo Railway Supply Co. (Hand & Motor Cars & Railway Supplies, etc.)
*Kalamazoo Spring & Axle Co. (Carriage Springs & Axles, etc.)
†Kalamazoo Stove Co. (Stoves, etc.)
*Michigan Buggy Co. (Auto Bldrs.)
*National Gas Light Co. (Gas & Electric
§New Era Mfg. Co. Fixtures, etc.)
*Phelps & Bigelow Windmill Co. (Windmills, Pumps, etc.)
*†Reed Mfg. Co. (Agl. Implts. & Crucible Steel Castings)
†Riverside Foundry Co. (Iron Fdrs.)
*Schau, Wm.
*Smith & Pomeroy Windmill Co. (Wind Mills, Feed Mills, etc.)
*§Star Brass Works (Brass Castings, Trolley Wheels, etc.)
KALKASKA—*Johnson, E. F. Cycle Works
LANSING—*Bates & Edmonds Motor Co. (Gas & Gasoline Motors)
*Bates & Edmonds Motor Co. (Gas & Gasoline Motors)
*Beilfuss Motor Co. (Gas, Gasoline, Stationary & Automobile Engines)
*†§Bement Co. (Stoves, Ranges, etc.)
*Bidwell, C. H. Thresher Co. (Beam Threshers, etc.)
*Brown, W. G. (Motors. Etc.)
†Capitol Casting Co. (Grey Iron Castings, Specialty Gas Engine Castings)
'§Central Brass & Aluminum Co. (Aluminum & Brass Castings)
*§Gerson-Carey Co.
*†Hildreth Mfg. Co. (Gasoline Engines & Castings)
*Ideal Motor Co. (Windmills, Pumps, Tanks, Motors, etc.)
*Jarvis Engine & Machine Works (Engineers & Machinists)
*Lansing Motor & Pump Co. (Gasoline Motors, etc.)
*†Lansing Wheelbarrow Co. (Car Wheels, Mining Cars, etc.)
†§Michigan Brass & Iron Works (Aluminum, Brass & Grey Iron Castings, etc.)
*New-Way Motor Co. (Gas & Gasoline Engines)
*†§Olds Motor Works (Automobiles, Motors & Gas Engines)
*Olds, W. S. (Gasoline Engines, etc.)
*Omega Separator Co. (Cream Separators, etc.)
*Peerless Motor Co. (Gas & Gasoline Engines, etc.)
*Prudden, W. K. & Co., Inc. (Automobile Wheels, etc.)
*Rork, James (Windmills, etc.)
*§Seager Engine Works (Gas & Gasoline Engines)
LAPEER—†Bostick Stove Co. (Stoves & Castings)
*†§McDonald's, Wm. Sons (Steam Engines)
LAURIUM—§Macauley, John A.
§Superior Brass Foundry (Brass Founders)
LOWELL—*Lowell Specialty Co. (Hardware Specialties, etc.)
LUDINGTON—*Industrial Iron Works
MANCELONA—*Eclipse Motor Co. (Gasoline Engines)
MANISTEE—*†§Manistee Iron Works Co. (Saw Mill Machinery, Steam Engines, Iron Foundry, etc.)
MARCELLUS—*†Chapman Forge & Engine Works
MARQUETTE—*†§Lake Shore Engine Works (Marine & Stationary Engines, Iron Fdrs.,
MARSHALL—†Dobbins Furnace Co. etc.)
*†Lambert Machine Co. (Coffee & Butternut Machy., etc.)
*†Marshall Furnace Co. (Hot Air Furnaces)
†New Process Steel Co. (Steel Castings, Gears, Crankshafts, etc.)
MASON—†Fingerle, Jno. C. (Iron Fdry.)
MAYVILLE—*†Johnson, Wm. J.
*Markham. Geo. B.
MENOMINEE—*Dudley Tool Co. (Tools, Wrenches & Bicycle Specialties)
*Gram, Andrew
*§Henes & Keller Co. (Air Pumps, Brass Fdrs., etc.)
*Lloyd Mfg. Co. (Automatic Mach'y, etc.)
§Prescott Co.
MIDLAND—*†Dent, Jno.
MILAN—*†Detroit Register Co. (Hot Air Registers & Hardware Specialties)
*†Lamkin, W. P.

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MILLINGTON—†Beach, H. A. & Son (Agrl. Implts.)
MONROE—*†§Monroe Fdry. & Furnace Co. (Hot Air Furnaces & Castings, etc.)
*Monroe Machinery Co. (Hydraulic Presses)
*†Wilder-Strong Implement Co. (Agl. Implements, etc.)
MONTAGUE—*†§Montague Iron Works Co. (Fdrs. & Machinists, Steam Engines, etc.)
MORENCI—*Hill Bros.
MOUNT CLEMENS—†Donaldson Bros. (Agl. Implements, Plows, Cultivators, Harrows, *Phillips & McCreedy etc.)
MOUNT MORRIS—*†§Hughes, Jno.
MOUNT PLEASANT—*Gorham Bros. Co.
MUSKEGON—*American Electric Fuse Co. (Electric Specialties, etc.)
*Barcus Bros. (Saw Mfrs., etc.)
*Buss Machinery Co. (Machinists)
†Clover, Chas. S. (Iron Fdry.)
*Continental Motor Mfg. Co. (Marine Motors, etc.)
*§Enterprise Brass Works (Frank Holt, Prop.), (Brass Castings & Launch & Engine Trimmings)
*Linderman Machine Co. (Woodworking Machinery)
*†§Racine Boat Mfg. Co. (Launches, En-
*†Rodgers Iron Mfg. Co. gines, etc.)
*Shaw Electric Crane Co. (Main Office, New York City)
†Standard Malleable Iron Co. (Malleable Iron Castings)
MUSKEGON HEIGHTS—*†Morton Mfg. Co. (Machine Tools)
NASHVILLE—*Taylor, John E.
NILES—*†Garden City Fan Co. (Iron Founders & Blowers, Fans, etc.)
†Niles Steel Tank Co.
*†Welling, A. W.
NORTHVILLE—*†§American Bell & Foundry Co. (Bells, Hot Air Furnaces, Etc.)
*Stimpson Scale & Mfg. Co. (Wagon, Platform & Truck Scales)
OWOSSO—*†Independent Stove Co. (Stoves, Ranges, etc.)
Owosso Mfg. Co. (Screens, Tools, etc.)
*Reliance Motor Truck Co. (Motor Trucks,
PAW PAW—†Snow Bros. etc.)
PETROSKY—†Blackmer Rotary Pump, Power Mfg. Co. (Rotary Pumps, etc.)
*†§Burnett Foundry & Machine Co. (Ltd.) (Marine Gasoline Engines, etc.)
†Middleditch, P.
PINE RUN—*†Tinker, Wm. & Son.
PLYMOUTH—*†Daisy Mfg. Co. (Air Rifles)
*†§Hamilton, C. J. & Son Mfg. Co. (Rifles, Guns, etc.)
*Hamilton Rifle Co. (Air Rifles)
*Markham Rir Rifle Co.
*†Markham Mfg. Co. (Air Rifles)
PONTIAC—*Cartercar Co. (Auto Cars & Trucks)
*†§Flanders Mfg. Co. (Grey Iron Castings, Gears, Steel Balls, Auto Axles, etc.)
*Hess Pontiac Spring & Axle Co. (Spring, Axles, etc.)
*†Howland, E. & Sons (Founders & Machinists)
*Rapid Motor Vehicle Co. (Automobiles.
*Vulcan Gear Co. (Gears, etc.) etc.)
PORT HURON—*§Draper Mfg. Co. (Valve Facing Tools, etc.)
*Dry Dock Iron Works
*§Grand Trunk Ry. Shops
*Port Huron Construction Co. (Auto Motors)
*†§Port Huron Engine & Thresher Co. (Agricultural Implements, Traction En-
†Rudge, Jno. Foundry Co. gines, etc.)
*§South Park Mfg. Co. (Steam Specialties & Pneumatic Air Tubes)
*Wilson Saw & Mfg. Co. (Saw Mill Mach'y, etc.)
PORTLAND—†Bates, Henry & Co.
READING—*Brown & Kerr
RICHMOND—†Parker Plow Co. (Agrl. Implts)
ROCHESTER—*†Jackson & Co.
ROMULUS—†Seestedt, Henry W.
SAGINAW—*Allington & Curtis Mfg. Co. (Blowers, Exhausters, Dust Collectors.
*American Beet Harvester Co. etc.)
*American Sand Stone Brick Machy Co. (Brick Machy.)
*†§Bartlett, A. F. & Co. (Mine, Salt & Saw Mill Machinery, Engines & Iron & Brass Castings, etc.)
*Erd Motor Co. (Gas & Gasoline Engines etc.)
*†Eureka Heating & Ventilating Co. (Grate
†Fair. S. & Son Bars, Castings, etc.)
*Ferrell, A. T. & Co. (Fanning Mills, etc.)
*Heginbottom & Sons
*†Jackson-Church-Wilcox Co. (Machinery etc.)
*Koehler Bros. (Forge & Machine Shop)
*Ladd, John W. & Co. (Creamery Machy. & Supplies
*Lufkin Rule Co. (Rules, etc.)
*Mershon, W. B. & Co. (Woodworking Mach'y, etc.)
*†§Mitts & Merrill (Agl. Implts. & Fdrs. & Machinists, etc.)
*National Engineering Co. (Gasoline Engines, Windmills, etc.)
*Presser, W. H. & Sons (Saws, etc.)
*†Saginaw Wheelbarrow Co.
†Valley Grey Iron Foundry Co. (Grey Iron Castings, etc.)
*WERNER & PFLEIDERER (Macaroni Mach'y., Kneading & Mixing Machines, etc.). (See adv. index, end of book)
*†§Wickes Bros. (Steam Engines, Saw Mill Machinery, etc.)
ST. CLAIR—*†Great Lakes Engineering Works (Marine Engines & Shipbuilders)
†Wonder Plow Co. (Plows, etc.)
ST. JOHNS—*Mason, F. C. & Co. (Agl. Implts. & Parts)
†St. Johns Foundry Co.
ST. JOSEPH—*Engberg's Elec. & Mechanical Works (Machinists, etc.)
*†§St. Joseph Iron Works (Basket & Veneer Machy., etc.)
*Saranac Machine Co. (Book Binders' & Wire Stapling Machinery)
*Spaulding Engine Co. (Gasoline & Marine Engines)
*†§Truscott Boat Mfg. Co. (Marine Engines & Motors, etc.)
SAULT SAINTE MARIE—*Hickler Bros. (Marine Work)
SEBEWAING—*†Kellogg, W. H.
SOUTH HAVEN—*Mapes, E. B. (Peach Pitting Machines)
SPARTA—*Holm's Machine Co. (Gasoline Engines)
STURGIS—*†Freeland, B. F. & Sons Co. (Iron Tanks, Heaters, etc.)
*§Miller-Hubbard Mfg. Co.
§†Morency-Van Buren Mfg. Co. (Plumbers'
*Sturgis Machine Co. Brass Goods, etc.)
TECUMSEH—*†Brewer, Horace & Co., Inc. (Brick Presses & Clay Working Mach'y, etc.)
*†Heesen Bros. & Co. (Feed Cookers, Hog Ringers, etc.)
THREE RIVERS—*Armstrong Machine Works (Wire Spokes & Nipples, etc.)
*†§Sheffield Car Co. (Inspection Cars & R. R. Specialties)
*†Three Rivers Railway Supply Co. (R. R. Specialties, etc.)
TRAVERSE CITY—*Jackson, Wm. etc.)
*Potato Implement Co. (Corn & Potato Planters, etc.)
*Queen City Brick Machine Co. (Brick Ma-
*†§Round & Son chinery, etc.)
*†§Traverse City Iron Works (Iron & Brass Fdrs. & Machinists)
VASSAR—*†Miller Co. (Fdrs. & Machinists)
VICKSBURG—*Spade Engine Co. (Gas Engines)
WEST BRANCH—*Grice, Wm. M. (Machinist)
WYANDOTTE—*†Detroit Valve & Fittings Co.
*†§Michigan Alkali Co. (Foundry Dept.)
YALE—*Yale Machinery Co.
YPSILANTI—*†Michigan Press Co. (Drop Hammer Power, Presses & Shears, etc.)
*Thompson, Oliver E. & Sons (Agl. Implements, etc.)
*†Ypsilanti Hay Press Co. (Hay Presses, etc.)
*†Ypsilanti Machine Works (Flour Mill Machinery, etc.)
ZEELAND—*Berghorst, B. J. W.

## MINNESOTA.

ALBERT LEA—§American Gas Machine Co (Gas Machines)
*Edwards, C. D. (Stump Pullers & Ditching Machines)
*†§Veness, J. W. (Machinist & Fdry.)
ALEXANDRIA—*Fredenberg, M. D.
*Olson, L. J.
AUSTIN—Carlson, C. A. (Machinist)
*†Johnson & Smith Co. (Plows, Harrows, etc.)
BLOOMING PRAIRIE—*Morton, Thos. S. & Son
BRAINERD—*†§Parker & Topping (Iron Fdrs., Light & Heavy Castings, etc.)
CALEDONIA—*Caledonian Wagon & Iron Wks
CANNON FALLS—*Anderson, Jno. J. (Machinist)
CHASKA—*†Ess Bros.
COLOGNE—*Kohls, Wm. (Machinist)
CROOKSTON—*†Crookston Mfg. Co.
*†Maple Bay Co. (Wind Stackers)
DASSEL—*Wreisner Bros.
DULUTH—*†CLYDE IRON WORKS (Inc.) (Hoisting Engines, Log Loaders, Grey Iron Castings, etc.) (See adv. index, end of book)
*§Duluth Brass Works Co. (Railroad Brasses, Hose Couplings, etc.)
*Duluth Gas Engine Works (Gas Engines,
*Duluth Machinery Co. etc.)
*Globe Iron Works
*Imperial Iron Works (Power & Mining Machinery & Grey Iron Castings)
Marine Iron Co.
*†NATIONAL IRON CO. (Hoisting Engines, Hoists, Grey Iron Castings, etc.) (See adv. index, end of book)
*Northwestern Steam Boiler & Mfg. Co.
†Thomsen Foundry Co.
EDGERTON—†Anderson, N. P.
FAIRMONT—*†§Fairmont Machine Co.
FARIBAULT—†Nutting Truck Co.
*†§Winter, F. W. & Co.
FERGUS FALLS—*†Fergus Iron Works Co.
GLENCOE—*†Glencoe Fdry. & Machine Co.
GRANITE FALLS—*Lende, Claus
HASTINGS—§Stroud Humphrey Mfg. Co. (Gasoline & Marine Engines, etc.)
HENDERSON—*Bisson, C.
HOPKINS—*†§Minneapolis Threshing Ma-
JANESVILLE—*†McGuiness, J. I. chine Co.
KASSON—*Johnson, V. C.
LA CRESCENT—*Smith, W. Grubber Co. (Stump Pullers, etc.)
LAKE CITY—*†§Gillett & Eaton (Engines,
LITTLE FALLS—*†§Denis, Jno. etc.)
MADISON—*Berg, E. O. & Son (Agrl. Implts.)
MANKATO—*†Mankato Mfg. Co. (Machinists & Founders)
*†§Mayer Bros. (Inc.) (Trip Hammers, Castings, etc.)
MINNEAPOLIS—*†American Bridge Co. (See Pittsburg, Pa.)
*Andrews Heating Co. (Low Pressure Boilers & Steam Heating Specialties)
*Automatic Carbonator Co. (Carbonating Machinery)
*§Baum's Brass & Model Works, 244 3d av
*Bolton Lath & Shingle Machinery Co., 166 Western av
*†Bros, Wm., Boiler & Mfg. Co. (Boilers, etc.)
†Bryant, J. W. Co., 2601 University av., S. E.
*†Central Machine Works Co. (Woodworking Machy. & Grey Iron Castings)
§Commutator Co. (Copper & Brass Fdrs., Finishers, Commutators, etc.), 121 N 1st
*†Crown Iron Works Co. (Builders' Iron Work)
*†Diamond Iron Works (Grain Elevator, Saw Mill Machy., etc.), 2d & 18th av N
†Eagle Foundry Co.
*Electric Heat Regulator Co., The Phoenix
*Electric Machinery Co. (Dynamos, Motors & Generators)
*†§Flour City Ornamental Iron Works (Brass, Iron & Bronze Fdrs, Finishers, Machinists, etc.), 2635 S. 27th av.
*Garbett & Schneider, Power bldg, Nicolett Island
*Gas Traction Co. (Traction Engines)
†Great Western Stove Repair Co., 312 Hennepin av
*†§Howell, R. R. & Co. (Saw Mill Machinery, etc.)
*Kinnard-Haines Press Co. (Hay Presses, Engines, etc.)
*Lagerquist, Gus. (Elevators, etc.), 514 N Third
*†Lenhart Wagon Co., 2600 University av., S. E.
†§Menzel & Jeffrey Co., 315 9th av, S
*Mereen-Johnson Machine Co. (Box Machinery)
*Minneapolis Bedding Co. (Brass & Iron Bedsteads)
*Minneapolis Brass & Iron Mfg. Co. (Brass Fdrs. & Finishers)
*Minneapolis Plow Works (Plows, Harrows, etc.), 34th av. S & E 27th
*†§MINNEAPOLIS STEEL & MAchinery Co. (Corliss Engines, Heavy Castings, etc.) (See adv. index, end of book)
*†§Minneapolis Threshing Mch. Co.
*†§Monitor Drill Co. (Grain Drills, Cultivators, etc.). Works, St. Louis Park, Minn.
*Moore Carving Machine Co. (Woodworking Machy.), 1019 Portland av
*National Novelty Co., 1st av S & 2d
†North Star Foundry Co., 32d av. & 27th
*†Northwestern Foundry (Castings & Builders' Iron Work)
*§Nott Fire Engine Co. (Fire Engines, etc.)

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†Owens, J. L. Co. (Grain Cleaning Machinery, etc.)
*Parten-Blomstrom Mfg. Co., 249 6th av S
*†§Peteler Car Co. (Industrial Cars, Wheels, etc.)
*Quimby Mfg. Co. (Dies, Tool & Special Machy.), 417 Washington av
*Russell Grader Mfg. Co. (Road Making Machinery), 2429 University av, S E
†Salisbury & Saterlee Co. (iron Bedsteads), 215 S E Main
*Schutz-O'Neill Co. (Pulverizing Machy., etc.), Corn Exchange
*Shadegg, J. C. Engine Co., 315 S 3d
*†Standard Fdry. & Machine Co., 1032 3d av N E
*Staude, E. G. Mfg. Co. (Engineers Printing Presses, etc.), 525 S 5th
*Strong-Scott Mfg. Co. (Feed Mill Machinery, etc.)
*Therien, J. O. (Tools), 116 1st av, N
*§Twentieth Century Brass Mfg. Co., 231 S 5th av
*§Twin City Rapid Transit Co.
*†Union Iron Works
*Valentine Bros. Mfg. Co. (Gasoline Engines, etc.), 230 5th av
*Wallof, E. G. (Machinist), 1700 Washington av, N
*†Wilcox, H. E., Motor Car Co. (Automobiles)
*Williford Mfg. Co. (Flour Mill Machy.), 303 S 3d

NEW PRAGUE—*†New Prague Foundry Co.
NEW ULM—*†Leonhardt, Chas. (Power Hammers, etc.)
NORTH BRANCH—*Splittstosser, F. (Jobbing)
NORTHFIELD—*Northfield Furnace Co. (Furnaces)
ORTONVILLE—*†§Mullica, W. F.
OWATONNA—*†§Kaplan & Felton
*†Owatonna Mfg. Co. (Grain Drills, Seed Sowers, etc.)
*Virtue & Pound (Gasoline Engines)
*†Washington Tool Co. (Tools & Machy.)
PAYNESVILLE—*†Seavey, C. W.
PLAINVIEW—*Edwards, W. G.
RED WING—*†Desmore Bros. (Steam Sor-
*Hjermstad, J. M. ghum Machy., etc.)
*Red Wing Boat Mfg. Co. (Gas & Gasoline Engines)
REDWOOD FALLS—*Japs, Frank A.
ROBBINSDALE—*Pearson Mfg. Co. (Mailing Machines)
ROCHESTER—*†§Marquadt & Ormond
ST. CLOUD—*Granite City Iron Works Co. (Stone Working Machy.)
*†§St. Cloud Iron Works (Granite Cutting & Polishing Machy.)
ST LOUIS PARK—*Martin, M. R. (Grinding Mills
*†§Monitor Drill Co. (Grain Drills, etc.)
ST. PAUL—*†§AMERICAN HOIST & Derrick Co. (Contractors' & Quarrymen's Machy. & Tools), 63 S Robert. (See adv. index, end of book)
*Borreson Mfg. Co., St. Anthony Park
*Brownson, R. & Co. (Horse Collar & Harness Machy.)
*Dahlquist Machinery Co. (Elevator Bldrs., etc.), 515 Robert
*Erickson, John E., Fillmore av & Walter
*Franklin Machine Works (Passenger & Freight Elevators), 2208 University av
§Great Northern Ry. Shops
*†§Griffin Wheel Co. (See Chicago, Ill.)
*Hackney Mfg. Co. (Hay Tools, etc.)
*Heck, G. J., 447 Cedar
*HELWIG MFG. CO. ("Helwig" Pneumatic Tools, etc.) (See adv. index, end of book)
†Herzog Iron Works (Ornamental & Structural Steel Work, etc.)
*Joesting & Schilling (Steel Ranges, etc.) 315 Robert
*Johnson, C. I. Mfg. Co. (Printers' Mchy.)
*Lee & Hoff Mfg. Co. (Elevators & Machine Work), 81 E Fillmore av
†Northern Malleable Iron Co. (Malleable Iron Castings)
*Northwestern Bedding Co., St. Anthony Park
*†§Orme's, Henry Sons (Foundry, etc.)
*§Posch, Jos. (Copper & Brass Works), 59 W. 3d
§St. Paul Brass Foundry Co., 2d & Minnesota
*†ST. PAUL FOUNDRY CO. (Steel Structures & Buildings, also Builders' & Railroad Castings, etc.), Como av & Mackubin. (See adv. index, end of book)
*St. Paul Machine Works (Machinists), 123 W 3d
*†South Park Foundry & Machine Co. (Radiators, etc.)
*§Stickney, Chas. A. Co. (Gasoline Engines, etc.), Filmore & Fairfield avs
†§Twin City Iron & Wire Works (Brass & Iron Fdrs., Elevator Enclosures, Fire Escapes, etc.), 106 E 5th
*§Union Brass & Metal Mfg. Co. (Plumbers' Supplies), Front & Mackubin
†Valley Iron Works (Iron Fdrs., etc.)
*†§Waterous Engine Works Co. (Gasoline Engines, 62 S Robert
†Western Iron Works
*§Western Machine Mfg. Co.
*†Wolterstorff-Haskell Range & Furnace Co. (Steel Ranges, Furnaces, etc.), 186 E. 6th
ST. PETER—†Bornemann, Adolph (Grey Iron Castings)
SAUK CENTER—*Keller Mfg. Co. (Agl. Implements, Harrows, etc.)
SHAKOPEE—†Minnesota Stove Co. (Stoves)
SOUTH PARK—*†§South Park Foundry & Machine Co. (See St. Paul)
SPRING VALLEY—*Kilburn, Edw. (Machinist)
STILLWATER—*Atwood & Jones Mfg. Co.
*†Bronson, J. N. (Fdry. & Machinist)
†Dailey, L. W. Stove Wks. (Stoves)
*†Jesse, Aug. (Fdry., etc.)
*†§Northwest Thresher Co. (Agl. Implts., etc.)
*†Swain, D. M. (Fdry. & Machinists)
TWO HARBORS—*†§Duluth & Iron Range Ry. Shops
VIRGINIA—*†§Virginia Foundry & Machine
WADENA—*†§Gehr, H. W. Co.
WARREN—*†Warren Machine & Iron Works
WASECA—*Lang & Cochran Co.
†Reibold, Jno.
WAVERLY—*Waverly Mfg. Co. (Tools, etc.)
WELLS—†Henjum, J. B. & Sons
WINONA—*Baldwin Bros. (Hand Fire Engines)
*†New Winona Mfg. Co. (Cotton Seed Hullers, Feed Mills, Corn Shellers, etc.)
*Phenix Iron Works (Machinists)
*Pioneer Tractor Mfg. Co. (Traction Engines, etc.)
*Winona Machine & Boat Works (Gasoline Engines, Motor Boats, etc.)

## MISSISSIPPI.

BOLTON—*Birdsong, Mason (Machinist)
CENTERVILLE—*McElwee, George D.
COLDWATER—*Perry, A. G. Plow Co. (Agrl. Implts.)
COLUMBUS—*†§Columbus Machine & Fdry. Co.
*†Jacobs, F. M.
*Littleton & Jones
*†Standard Stove Works (Stoves)
CORINTH—*†§Adams, W. T. Machine Co. (Saw Mill Mach'y, Engines, etc.)
*†§Corinth Engine & Boiler Works (Engines & Saw Mill Machinery)
DOCKERY—*†Collins Plow Works (Agrl. Implts., etc.)
GREENVILLE—*Berry, H. N.
*†§Wall, Jos. W.
GREENWOOD—*†Kitchell, H G. (Fdry. & Machinist)
GULFPORT—*†§Dantzler Foundry & Mach
*Smith, W. R. Works
HATTIESBURG—*†Komp Machine Works Fdry. & Machinist)
*†Watkins Machine & Foundry Co.
HAZLEHURST—*Hazlehurst Machine Shops (Inc.)
JACKSON—*†§McDonnell Foundry & Machine Co. (Plows & Castings)
*†Miss. Foundry & Mach. Co. (Fdrs. & Machinists)
LAUREL—*†§Laurel Machine & Foundry Co.
MERIDIAN—*Hyde, Chas. J. (Hay Presses.
§N. O. & N. E. Ry. Shops etc.)
*§Soule Steam Feed Works (Saw Mill
MOSS POINT—*†§Blumer, Adam Machy.)
NATCHEZ—*†§Shaw, C. P. (Foundry & Ma-
SCRANTON—*Gatti, T. C. chinist)
VICKSBURG—*Dutton, G. M. Foundry & Ma-
†Foley, P. J. & Son chine Works)
*†§Robinson, R. J.
WATERVALLEY—*†Hendricks, Wm. M.
WEST POINT—*Bentley, F. A.

## MISSOURI.

AURORA—*†§United Iron Works Co. (See Springfield)
CALIFORNIA—*California Machine Shop
CAPE GIRARDEAU—*†Schmittzehe & Eri-
CARROLLTON—*Heins, Daniel bacher
*Heins, W. F. (Pumps)
CARTERVILLE—*†§Webb City & Carterville Foundry & Machine Works
CARTHAGE—*†Carthage Fdry. & Machine Works
*†§Stout-Parke Fdry. & Machine Co.
CHILLICOTHE—*†Jenkins Hay Rake & Stacker Co.
*†§Way, Frank, Fdry. & Machine Co. (Grey Iron & Brass Castings, etc.)
CLARKSVILLE—*†Fletcher, M. A.
CLINTON—*†§Industrial Iron Works (Grey Iron & Builders' Castings, Engnesi, etc.)
COLUMBIA—†Matthews, Chas. (Stoves, etc.)
*West, Wm. B. & Son
CRYSTAL CITY—*†§Pittsburg Plate Glass Co. (See Pittsburg, Pa.)
DEERING—*†International Harvester Co. (See Chicago, Ill.)
ELDON—*Vanosdell, C.
FARMINGTON—*Alexander Machine Co.
FAYETTE—*Fischer, J. W.
FREDERICKTOWN—*†Littleton, T. R. & Son
FROHNA—*Bachmann, Theo.
FULTON—*†§Gilbert, Wm.
GARDEN CITY—*†§Kauffman, J. L.
GREEN CITY—*†§Ideal Pump & Mfg. Co.
HANNIBAL—†Duffy-Trowbridge Stove Mfg.
*Long, E. C. Mfg. Co. Co. (Stoves)
*†Treat, C. A. Mfg. Co.
*Worell, S. E. (Drying Machines)
HARRISONVILLE—*†Harrisonville Pump & Foundry Co. (Rotary Pumps & Semi-Steel Castings)
*†Sharp, I. M. (Machinist & Fdry.)
HERMANN—*Wohlt, Aug.
HIGGINSVILLE—*†§Raasch, G. A.
HUNTSVILLE—†Fleming & Sons Mfg. Co. (Rakes & Hay Stackers)
INDEPENDENCE — *†American Scale Co. (Scales, etc.)
*†Danielson Implement Co. (Plows, etc.)
†Independence Foundry Co.
†Roell Stove & Foundry Co. (Stoves, etc.)
JEFFERSON CITY—*Star Dynamo Co. (Dyna-
*†§State Penitentiary mos & Motors)
*†§Tanner, Theo.
*†Vetter, H. J.
JONESBURG—*Godfrey, H. M. (Plows)
JOPLIN—*§American Concentrator Co. (Mining Machinery)
*Hamm, Fred
*§Joplin Brass & Metal Co.
*†§Joplin Foundry Co.
*†§Rogers Foundry & Mfg. Co.
*†§United Iron Works Co. (See Springfield)
*†Webb City & Carterville Fdry. & Mach. Co. (See Webb City)
KANSAS CITY—*Aetna Machine Works, 507 Broadway
*Art Novelty Mfg. Co., 706 Wyandotte
*Bauer Machine Works Co. (Gas & Gasoline Engines)
*Carr Mfg. Co. (Farm Machy.), 1324 W 11th
*§Central Brass Works Co. (Plumbers' Brass Goods, etc.)
*Crago, Edw. C., 1335 Walnut
*§Crampton-Farley Brass Co. (Brass Fdrs,. & Finishers), 221 Main
*Demster, W. R. Machinery Co., 16th & Walnut
*§Economy Gas Lamp Co. (Gas Lamps, etc.)
*Emerson-Newton Co. (Farm Machy.)
*†English Iron Works Co. (Hydraulic Machinery, Steam & Electric Hoists, etc.)
*Garland, W. H. Mfg. Co. (Dies & Tools, etc.), 111 W 18th
*†§Great Western Mfg. Co.
*Harbison Mfg. Co. (Implt. Supplies. etc.), 1219 W 10th
*Hervey Machine Works (Special Mach'y, etc.), 313 Grand av
§Kansas City Brass Works
*Kansas City Elevator Mfg. Co. (Elevators, etc.), 105 W 19th
*†Kansas City Hay Press Co. (Hay Presses, Feed Mills, Haying Tools, etc.), 8th & Mill
*Kansas City Machine Works (Machinists)
*Kansas City Mfg. & Supply Co., 429 W 5th
*Kansas City Scale & Supply Co. (Scales, etc.)
†Kansas City Wire & Iron Works (Structural Iron Work, etc.)
†Loewer, John E., Wire & Iron Works
*Mathews, Hugh (Cylinder Boring Bars, etc.)
*Millman, Geo. B. (Novelty Machy.)
*Missouri Iron Works
*Murray Machinery Co. (Machinists)
*National Machine & Construction Co., 1302 Union av
*Novelty Machine & Plating Works, 504 Wyandotte
†Prest Heating & Foundry Co.
†Pugh Foundry Co., 9 W Levee
*Republic Machine Works, 1422 Walnut

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*Security Stove & Mfg. Co. (Stoves, etc.)
*Sheffield Gas Power Co. (Gasoline Engines)
*†Smith & Sons Mfg. Co. (Plows, Hay Presses, Rakes, etc.), Guinotte & Lydia
*Snyder Steel & Iron Works Co. (Hoisting Engines, Mining Mach'y, etc.)
*§Star Brass Works Co.
*Tilk, Frank, Ornamental Iron Works Co.
*Tuller Cultivator Co. (Cultivators, etc.)
*Vogl Tool Co. (Stonecutters' Tools, etc.)
*†Witte Iron Works Co. (Gas Engines, etc.)
*X.-L. Concrete Stone Machine Co., 111 W. 18th

KENNETT—*†Kennett Engine & Boiler Works
KIRKSVILLE—*†§Sherwood, W. L.
KNOBNOSTER—*Hunter, A. J.
LEXINGTON—*Taubman, Charles.
LINNEUS—*†§Superior Hay Stacker Mfg. Co. (Hay Stackers, etc.)
LOUISIANA—*Parsons, J. W.
MALDEN—*Wills, A. N. & Sons
MARYVILLE—*†§Armstrong, Wm.
*Moore Bros Lightning Rod Co. (Lightning Rods, etc.)
MILAN—*Sevier, J. D. & Son
MOBERLY—*Eldridge, T. A.
*Faessler, J. Mfg. Co. (Boilermakers' Tools, etc.)
*†§Moberly Fdry. & Machine Co.
*Selby, W. H. (Furnaces)
†Wabash R. R. Shops
NEOSHO—*†§Neosho Foundry & Plow Works Plows, etc.)
ORONOGO—*Oronogo Machine Co.
*†§Webb City & Carterville Fdry. & Machine Co. (See Webb City)
PERRY—†Stehle & Son Stove Co. (Stoves)
PERRYVILLE—*†Perryville Foundry & Machine Shop
PLEASANT HILL—*†McDonald Bros. Pitless Scale Co. (Pitless Scales, etc.)
POPLAR BLUFF—*Dalton Adding Machine Co.
*†§Holcomb, W. A.
ST. CHARLES—*†§American Car & Foundry Co. (Cars, etc.). See St. Louis
*§Leistner, Paul & Sons Mfg. Co.
ST. JOSEPH—*Acme Machine Co. (Machinists)
†*Biehlen Foundry & Machine Co.
*Cartmell Machine Co. (Engines, Threshers & Sawmills)
*†§Crowther & Rogers Mfg. Co. (Foundry & Machine Work)
*Garvey Machinery Co. (Machinists, etc.)
*Jamieson Machine Co. (Mach'y., etc.)
†§Phoenix Foundry & Mfg. Co.
*Richardson, Geo. O. Machine Co. (Engines & Threshing Mach'y)
†§St. Joseph Brass & Iron Foundry
*†St. Joseph Plow Co. (Plows, etc.)
*St. Joseph Pump & Mfg. Co.
†Schwein, August, Stove Co. (Stoves)
*Wyeth Hdwre. & Mfg. Co. (Hardware, etc.)
ST. LOUIS—*Alsop Process Co. (Machinery), Mo. Trust Bldg
*†American Bed Co. (Iron Bedsteads)
*American Brake Co. (Car Brakes & Specialties), 1932 N Broadway
*American Car Co. (Electric Cars, etc.), 1527 Old Manchester Rd
*†§American Car & Foundry Co. (Cars, Car Wheels, Cast Iron Pipe, Grey & Malleable Iron Castings, etc.)
*American Diagraph Co. (Stencil Cutting Machines, etc.), 13 N. 2d
*American Electric Machine & Elevator Co., 1106 Cass av
*†§American Foundry & Mfg. Co. (Water, Gas & Plumbers' Goods, Hardware, etc.)
*American Furnace Co. (Hot Air Furnaces)
*American Malleable Range Co. (Ranges), 906 N Market
*American Scale & Gas Engine Co., 1401 N B'way
*†American Stove Co. (Stoves), 414 N 6th
*Anderson Electric Machine Tool Co. (Electric Grinders & Drills), 1133 Cass av
*Atkins, H. C. Mfg. Co., 703 S Broadway
*Ball, Phil De C. (Ice Machines), 3003 N Broadway
*†Banner Iron Works Steel Castings & Builders' Iron Work)
*Bradley Stencil Machine Co. (Stencil Machines), 2108 Papin
*Branch Saw Co., 817 N 2d
*Brauer, A. G. Supply Co. (Stove Repairs, etc.), 318 N 3d
*Brecht, Gus V., Butchers' Supply Co. (Packing House Machy., etc.), 1201 Cass av
*†Bridge & Beach Mfg. Co. (Stoves) 1st & Valentine
*Brockman, J. R., Mfg. Co. (Steam Fitters' Tools & Supplies, etc.), 212 Lucas av
†§Buck's Stove & Range Co. (Stoves, etc.), 3500 N 2d
*§Cahill-Swift Mfg. Co. (Plumbers' Supplies & Brass Goods), 24 S 12th
*†Carondelet Foundry Co. (Iron Fdrs.), 2123 S King's Highway boul
§Central Brass Foundry Co.
*Century Electric Co. (Electric Motors), 19th & Olive
*Champion Shoe Machinery Co. (Shoe Machinery), 3337 Franklin av
*†§Charter Oak Stove & Range Co. (Stoves, etc.), 1440 N Main
*†Christopher & Simpson Arch'l Iron & Foundry Co. (Iron Fdrs. of Bldrs.' Iron Work)
*Clemens, John (Iron Work), 1922 S 7th
*†Commonwealth Steel Co. (Steel Castings, Car Trucks, etc.), 112 N 4th. Works, Granite City, Ill.
*Cook Well Co. (Pumping Machinery), 15 S 4th
*Coyle Mfg. Co. (Millwrights & Machinists), 230 N B'way
*Crescent Novelty Mfg. Co. (Dies, Tools), 703 S Broadway
*†§Curtis & Co., Mfg. Co. (Saw Mill Machy. & Air Compressors, etc.)
*Diagraph Co. (Stencil Cutting Machines), 2121 N 9th
*Dorris Motor Car Co., 38 S Sarah
*Eagle Generator Co. (Acetylene Gas Generators, etc.), 1532 Pine
*Ellison, Wm. & Sons Mfg. Co. (Machinists, Steam Engines, etc.), 1020 N 6th
*Emerson Electric Mfg. Co. (Electric Fans & Specialties, etc.), 2032 Wash'n av
*Emrick, Frank C. (Jobbing), 2121 N 9th
*Essmueller Mill Furnishing Co. (Flour Mill Machinery), 1216 S 8th
§Eureka Brass Co., 2210 Scott av
*Fernholtz Brick Machinery Co. (Brick Press Machines)
*Fisher & Davis Mfg. Co. (Excelsior & Woodworking Machy., etc.), 1024 N Main
†Foster Bros. Mfg. Co. (Iron Beds, etc.), 1410 N 16th
*§Frank & St. Gemme Mfg. Co. (Brass Finishers, Fire Extinguishers, & Machinists), 817 Market
*†Fritz, Geo. J. Foundry & Machine Co. (Cotton Seed & Pulverizing Machy., etc.)
*†Fulton Iron Works (Corliss Engines, etc.)
*General Compressed Air & Vacuum Machine Co. (Vacuum Cleaners), 519 N Taylor av
*Gerahty Bros. (Elevators, etc.), 416 S. 6th
*†Gerst Bros. Mfg. Co. (Iron Fdrs. & Bldrs. Iron Work), 800 Cass av
§Gilbert, A. & Sons Brass Foundry Co. (Car & Engine Brasses, etc.)
*Graf, Robert (Jobbing), 3205 N Broadway etc.), 3018 N B'way
*Gravois Machine Shop Co. (Jobbers), 3205 N B'way
*†Green's Car Wheel Mfg. Co. (Car Wheels, etc.), 3018 N B'way
*Griffiths Iron Works Co. (Builders' Iron Work, Engineers' Tools, etc.), 23d & Papin
*Gruendler Machine Co. (Machinists), 928 N Main
*†Hager, C. & Sons Hinge Mfg. Co. (Hardware & Specialties), 2427 De Kalb
*Hall & Brown Woodworking Machine Co. (Woodworking Mach'y), 1913 N B'way
*†Heinz, C., Stove Co. (Stoves, Ranges, etc.), 100 N 2d
*§Hewitt Mfg. Co. (Journal Bearings, etc.), 4153 Clayton av
*Hicks & Timberlake, Branch & 9th
*†Hirsch Rolling Mill Co., Ecoff av. & Mo. Pac. Ry.
*Hoffman-Marquard Iron & Machine Co., 1523 N B'way
*House Cold Tire Setter Co. (Tire Setters, etc.)
*Jacob, Robt. Engine & Machine Co., 211 Chouteau av
*Kauffman Heating & Engineering Co.
*†Kaysing Iron & Foundry Co., 2710 N 25th
*†Kilpatrick, A. & Sons Foundry Co. (Iron Fdrs.), 1631 N 12th
*†§Kingsland-Kay-Cook Mfg. Co. (Electric Supplies, Brass, Bronze, Aluminum & Iron Fdrs., Machinists, etc.), Mullanphy, 11th & 12th
*Knight, W. B. Machinery Co. (Dies, Tools & Special Machy., etc.), 2019 Lucas av
*Koken Iron Works, 1012 Old Manchester Rd
*§Kraushaar Brass Mfg. Co. (Gas & Electric Fixtures, Brass, Bronze & Copper Castings)
*§Kupferle Bros. Mfg. Co. (Brass Fdrs. & Machinists), 600 N 2d
*†§Kupferle, Jno. C. Foundry Co. (Hardware & Plumbers' Specialties), 2d & Mound
*Kupsch, August (Machinist & Small Work), 209 S 3d
*§Laclede Brass Works (Brass Fdrs.), 307 Cedar
*Laclede Iron Works (Jobbing), 309 S 12th
*†Landay Stove & Range Co. (Stoves, etc.), 1410 N 16th
*Landis Machine Co. (Sewing Machines, etc.), 25th & Mullanphy
*Lasar Mfg. Co. (Arch'l Brass & Bronze Work), 16th & O'Fallon
*§Leading Brass & Metal Co., 2715 Hickory
*Lewis Blind Stitch Machine Co., 2211 Lucas av
*†Liberty Foundry Co., 7623 Reilly av
*†Ludlow-Saylor Wire Co.
§Lupfer, Wendel (Brass Fdry.), 216 Locust
*McGoogan, W. J. (Machinist), 728 N Main
*McLaughlin Machine Co. (Jobbers), 1131 S B'way
*Maier, Wm. (Jobbing), 3408 N 22nd
*†Majestic Mfg. Co. (Steel & Malleable Iron Ranges, etc.), 2018 Morgan
*†Materne Mfg. Co. (Machinists, Pipe Fitters, etc.), 800 S 18th
*Matthews-Davis Tool Co. (Expansion Boring Tools, etc.)
*Mayers Tire Setter Mfg. Co. (Tire Setters, etc.), 4030 Forest Park boul
*Maynard, J. F. (Ice Refrigerating Machy.), 116 Geyer av
*Mechanics Iron Works, 901 S Ewing
*†Medart Patent Pulley Co. (Iron Fdrs. & Machinists, Power Transmitting Machinery). 3500 De Kalb
*Mellon & Storm Mfg. Co. (Brass & Iron Bedsteads, etc.)
*Mesker & Bro. (Builders' Iron Work), 421 S 6th
*§Messmer, Ferdinand Mfg. Co. (Gears, Brass Fdrs., etc.), 2700 S 7th
*Miller, W. A. Elevator Mfg. Co. (Elevators, etc.), 9th & Victor
*§Missouri Brass Type Fdry. Co., 1620 W 22d
*†Missouri Bridge & Iron Co., 122 N 7th
*Moloney Electric Co. (Transformers), 7th
†Moon Foundry Co. & Hickory
*Moon-Hopkins Billing Machine Co. (Adding Machines, etc.), 19th & Pine
*Moran Bolt & Nut Mfg. Co., Florida & Main
§More-Jones Brass & Metal Co. (Brass Fdrs., Bearings, etc.), 3144 N B'way
*Mound City Machine & Pattern Works, 1625 N 7th
*§Nelson, N. O. Mfg. Co. (Plumbers' Specialties, Cast Iron Pipe, etc.)
*Olive, F. W. (Jobbing), 916 S 3rd
*OTIS ELEVATOR CO., Security bldg. (See New York City)
*†Pauly Jail Building Co. (Steel Jail Work), 2215 De Kalb
*Pfoertner, Lehmann, Machine Co., 709 S 4th
*Progress Press Brick & Machine Co. (Brick Machy., etc.), 3205 Kings Highway
*Putnam Die Co. 917 N. Market
*†Ramming, John Machine Co. (Steam Engines, etc.), 300 S Main
*Ramsey Machine & Elevator Co. (Elevators & Jobbing), 418 N 3d
*Ranz Stamping Tool Co. (Machy., Dies & Tools)
*Reliance Machine & Tool Works (Hoisting Engines, etc.), 3341 Franklin av
*†Reuter-Jones Mfg. Co. (Coffee, Spice & Flour Mill Machinery, etc.)
*Roth, B. Tool Co. (Machinists & Tools), 2122 Chouteau av
*Ruemmell-Dawley Mfg. Co. (Ice & Refrigerating Machy., etc.), 3900 Chouteau av
*§Rumsey, L. M. Mfg. (Machinists, Fdrs. Railway Supplies), 806 N 2d
§Ruppenthal, J. & Son, 1602 N B'way
*†St. Louis Architectural Iron Co., De Kalb & Lesperance
§St. Louis Bell Foundry (Bells, etc.), 2735 Lyon
*St. Louis Blower & Heater Co., 1628 N 9th
*St. Louis Boat & Engine Co., 3608 S Main

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*§St. Louis Brass Mfg. Co. (Brass Fdrs. & Finishers), Washington & Jefferson av
*†§St. Louis Car Co. (Car Builders, Brass & Iron Castings, etc.), 8000 N B'way
*†St. Louis Car Wheel Co. (Car Wheels, R. R. and Machinery Castings)
*St. Louis Electric Mfg. Co., 7th & Hickory
*St. Louis Frog & Switch Co., Chemical bldg
*St. Louis Gas & Gasoline Engine Co., 2615 DeKalb
*St. Louis Hardware Mfg. Co., 1519 N 18th
*†St. Louis Iron & Machine Works (Corliss Engines, etc.), 126 Chouteau av
†St. Louis Malleable Casting Co. (Malleable & Grey Iron Castings), 7701 N Conduit av
§St. Louis Smelting & Refining Co., Frisco bldg
†St. Louis Steel Foundry (Manganese Steel Castings), Hamburg & Kleinlin av
*St. Louis Trunk Hardware Mfg. Co., 609 Chouteau av
*St. Louis Well Machine & Tool Co., Wabash R. R. & S Newstead av
*Schmidt, Wm. F. & Co., 3149 Texas av
*Schoelhorn-Albrecht Machine Co. (Machinists), 416 N Main
*†§Scott-Madden Iron Works Co. (Brick, Tile & Special Machinery, etc.), 3d Nat'l Bank bldg
*Schurk Iron Works, 323 S 14th
*†Scullin-Gallagher Iron & Steel Co. (Open-Hearth Steel Castings, etc.)
*Security Machine Co., 111 Olive
*Seibel-Suessdorf Copper & Iron Mfg. Co. (Brewers' & Malsters' Machy.), 2d & Lombard
*Sinning, Chas (Machinist), 244 Dickson
*§Smith & Davis Mfg. Co. (Iron & Brass Bedsteads)
*†South St. Louis Foundry Co. (Iron Fdrs. & Bldrs.' Iron Work), 7514 S B'way
*†Spuck Iron & Foundry Co. (Iron Fdrs.), Branch & 14th
*Standard Adding Machine Co., Spring av & Forest Park boul
*§Standard Brass Mfg. Co., 413 S 2nd
*Standard Railway Equipment Co. (Pneumatic Tools), Nat'l Bank of Com. bldg
§Star Smelting & Casting Co., 3130 N B'way
*Steiner Mfg. Co. (Electric Mfg. Co. (Electric Motors, Coffee Mills, etc.)
§Stuckstede, H. Bell Foundry Co. (Bell & Brass Fdrs.), 1312 S 2d
*Stupp Bros. Bridge & Iron Co., Weber rd & Mo. Pac. Ry.
*§Superior Brass & Mfg. Co., 106 S. 8th
*Swaine, Fred J. Co. (Machine, Tools etc.), 1300 N 7th
*Tolland, J. W. (Jobbing), 1624 N 8th
†Tower Grove Foundry Co., 4444 Hunt av
*Turley Gear & Machine Co. (Cut Gears)
*†Union Iron & Foundry Co. (Iron Fdrs. & Builders' Iron Work, etc.), 1452 S 2d
*Union Machine Works (Jobbers), 1413 N 10th
*Universal Adding Machine Co. (Adding Machines), 3807 Laclede av
*Victor Iron Works, 7th & Victor
*†Wagner Electric Mfg. Co. (Dynamos, Motors, etc.)
*Webb Motor Fire Apparatus Co. (Gasoline Chemical Fire Engines)
*Welch, Robt. (Barrel Making Machy)
*Wenger, Geo., Machinery & Supplies Mfg. Co. (Machinery & Castings, etc.), 1328 Merchant
*§West St. Louis Machine & Tool Co. (Shovel Machinery, Gasoline Engines, etc.), 606 Manchester av
§Western Brass Type Foundry, 3749 Texas av
*†Whitman Agricultural Co. (Agrl. Implts.)
*†Williams Patent Crusher & Pulverizer Co. (Pulverizing Machy, etc.)
*Wissler, A. (Electrical & Mathematical Instruments, etc.), 601 N B'way
*Wrought Iron Range Co. (Ranges, etc.), 1901 Washington av
*Yerkes & Finan Woodworking Machine Co. Woodworking Machy.), 3145 N 9th
*Ziegler, Robt. & Sons (Printing Presses, Bookbinders' Machy., etc.), 208 Vine

SALISBURY—*Roling, J. F.
SAVANNAH—†Howard Stove & Mfg. Co.
*Schuyler, W. S. (Gas Stoves, etc.)
SEDALIA—*Barley, Thos. K. (Agrl. Implts., Harrows, Haying Tools, etc.)
*Ritter Machine & Auto Co.
*†Wells, Geo.
SEYMOUR — *†Freeman Foundry & Machine Works
SPRINGFIELD—†§New Phoenix Foundry & Machine Co.
†Silsby Stove & Queensware Co. (Stoves, etc.)
*†§United Iron Works Co. (Ice Making, Mining & Cement Mach'y, Builders' & other Iron Castings, etc.)
†Woods-Evertz Stove Co. (Stove Mfrs.)
SWEET SPRINGS—*Fischer, C. (Harrows, etc.)
TARKIO—*†Midland Mfg. Co. (Plows, etc.)
TRENTON—*Marsden, Wm. (Jobbing)
WEBB CITY—†Central Foundry Co.
*Joplin Foundry Co.
*†Webb City & Carterville Foundry & Machine Works (Mining Machinery & Grey Iron Castings)
†Webb City Stove Co. (Stoves)
WEST PLAINS—*Summers, W. L.

## MONTANA.

ANACONDA—*†§Anaconda Copper Mining Co.
BILLINGS—*†Billings Foundry & Mfg. Co.
BUTTE—*†Anaconda Copper Mining Co.
*†§Montana Iron Works
*†§Western Iron Works
GREAT FALLS—*†§Great Falls Iron Works Inc. (Fdrs. & Machinists)
HELENA—*†§Caird, C. S. (Stamp Mills & Castings, etc.)
*Hansen, C. L. (Machinist)
*Montana Anchor Fence Co.
*State Novelty Works (Inc.)
PHILIPSBURG—Philipsburg Iron Works

## NEBRASKA.

BEATRICE—*†§Beatrice Iron Works
*†§Dempster Mill Mfg. Co. (Cultivators, Grain Drills, etc.)
*Kees, F. D., Mfg. Co. (Hardware Specialties, etc.)
CENTRAL CITY—*Jensen, P. K.
DAVID CITY—*Barker Mfg. Co. (Garden Weeders, etc.)
FAIRBURY—*†§Fairbury Windmill Co.
FALLS CITY—*Harris & McCreery Machine Shops
FREMONT—*†§Fremont Fdry. & Machine Co.
GRAND ISLAND — *†§Kucera Windmill, Mach. & Fdry. Co.
HASTINGS—*†§Hastings Fdry. & Iron Works (General Foundry & Machine Work)
HEBRON—*†§Nickel, Chas.
HILDRETH—*†Hildreth Iron Works
KEARNEY—*†Kearney Fdry., Machine & Auto Co.
HOLDREDGE—*†Hultquist Bros.
LINCOLN—*†§Cushman Motor Works (Engines & Motors, Gasoline)
*Frishette, Isaac (Machinist)
*†§Hedges, C. E.
*†Smith, R. L. Machine Works (Steam Pumps, Castings, etc.)
*Westover, John (Structural Steel & Bridge Works)
NEBRASKA CITY—*†§Eccleston, F. B. & †Faultless Caster Co. (Casters, etc.) Co.
*†King Drill Mfg. Co.
NORFOLK—*†Norfolk Foundry & Mfg. Co.
OMAHA—*†§American Smelting & Refining Co. (See N. Y. City)
*Andreen, Gustav (Safes. etc.)
*Baker Ice Machine Co. (Ice Machines)
*Davis, Joseph S.
*Ely, Allen P. & Co.
*†Jubilee Mfg. Co. (Sad Irons, etc.)
†Liddell, Jno.
§McDonald Bros. (Brass Fdrs.)
*Melchiors, Peter (Machinist)
*Omaha Electrical Works
†Omaha Stove Repair Works
*Omaha Structural Steel Works
*†§Paxton & Vierling Iron Works (Iron Fdrs. & Builders' Iron Work)
†Wearne Bros. (Iron Fdrs.)
PLATTSMOUTH—*§Burlington Route Shops
YORK—*†§York Foundry & Engine Works (Engineers, Machinists & Founders, Grain Elevators, Conveying & Power Transmitting Machy., etc.)

## NEVADA.

CARSON CITY—Virginia & Truckee Ry. Shops
RENO—*†§Nevada Engineering Works

## NEW HAMPSHIRE.

BERLIN—*†§Berlin Foundry & Machine Co
BRENTWOOD—*Robinson, A. J. (Water Wheels)
BRISTOL—*Holmes, Chas. W. (Machinist)
CHESHAM—*Russell, Edw. G. (Machinist)
CLAREMONT—*Burns, John W. (Jobbing)
*†§Sullivan Machinery Co. (Rock Drills & Mining Machy., etc.)
CONCORD—*†§Concord Foundry & Machine Co.
*Cushman Electric Co. (Electric Motors, †Ford Foundry Co. (Stoves) etc.)
*†§Ford & Kimball (Brass & Iron Fdrs.,
*National Separator & Machine Co. (Turret Drill Presses, etc.)
CONTOOCOOK—*Kingsbury & Davis Machine Co. (Paper Box Machy.)
DOVER—*Davis, Herbert W. (Machinist)
*†§Kidder Press Co. (Printing Presses, etc.)
*†White, John A. & Co. (Woodworking Machinery)
EAST CONCORD—*§Badger, Franklin L.
*Eastman, Samuel & Co. (Nozzles, etc.)
EXETER—*§Exeter Brass Works (Plumbing Specialties & Brass Fdrs.)
*†Exeter Machine Works (Heating Apparatus, etc.)
*Lane, G. W. & C. A. (Grinding Mills, etc.)
FRANKLIN—*Acme Knitting Machine & Needle Co. (Knitting Machines)
†Beaupre Bros.
*Griffin, G. W. & Co. (Woodworking Machy., Jig Saws, etc.)
*†Kidder Machine Co. (Paper & Pulp Mill Machy)
HINSDALE—*Granite State Mowing Machine Co. (Lawn Mowers & Trimmers)
*Holman, Jason R.
†Tilden, Frank W. (Iron Fdry.)
KEENE—*Black, J. C. & Co. (Engineers & Machinists Water Power)
*Hill, Dan L.
*Hubbard, H. W. (Jobbing Work)
*†Humphrey Machine Co. (Water Wheels,
*Sargent, George W. etc.)
LACONIA—*American Twist Drill Co. (Knitting Machines)
*†Esty Sprinkler Co. (Mach. & Fdry. &
*Esty, Wm. Fire Extinguishers)
*Huse, Warren D. & Son (Knitting Machinery)
*†§Laconia Car Co. Works. (See Boston,
*†McGloughlin, Jas. Mass.)
*Mayo, Geo. D. Machine Co. (Knitting Machinery, etc.)
LAKEPORT—*Bickford, H. & Co.
*†§Cole Mfg. Co. (Rotary Planers Saw Mill Machy., etc.)
*Crane Mfg Co. (Knitting Machines)
*McDuff, Wm. J.
LANCASTER—*Sleeper, C. W. (Engineer &
*†Thompson Mfg. Co. Machinist)
LEBANON—*†Cole, S. & Son
*Kendrick & Davis (Watchmakers' Tools & Electrical Specialties)
*Purmort, Martin V. B. (Band Saws, Planers, etc.)
MANCHESTER—*†American Locomotive Co. (Locomotives). (See New York City)
*†§Amoskeag Mfg. Co.
*Corey, Wm. Co. (Knitting Machines, Needles, etc.)
*Lacene Mfg. Co. (Shoe Machy.)
*Leighton Machine Co. (Knitting Mach'y)
NASHUA—*American Shearer Mfg. Co. (Sheep Shearing Tools, etc.)
*Flather, E. J. Mfg. Co. (Machine Tools)
†Flather Foundry Co. (Iron Fdrs.)
*Flather & Co. (Machine Tools, etc.)
*Flather, Mark, Planer Co. (Planers, etc.)
*†§Highton, Wm. & Sons (Hot Air Registers, etc.)
*Improved Paper Machinery Co. (Paper & Pulp Mill Machy.)
*International Paper Box Machine Co. (Paper Box Mach'y)
†Nashua Co-Operative Iron Foundry Co.
*Nashua Machine Co. (Machinists)
*Nashua Novelty Works (Toys, etc.)
§Nashua Saddlery Hardware Co.
*Rollins Engine Co. (Engines, etc.)
*Spencer & Rideout (Power Cloth Presses etc.)
*†White Mountain Freezer Co. (Ice Cream Freezers, Light & Heavy Grey Iron Castings, etc.)
NEWFIELDS—*Wiggin, Geo. B. (Jobbing)
NEWTON JUNCTION—*Brown, Emma C.
NORTH GROTON—*Kirder, Dan'l & Son (Machinists)
PENACOOK—*†Concord Axle Co. (Stone Polishing Machy., Axles, Brass Castings, etc.)
§Hoyt Electrical Instrument Works (Electrical Instruments)
PETERBORO—*White's, Sam'l G. Sons

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PORTSMOUTH—*Chadwick & Trefethan (Expanding Reamers, etc.)
*Ellery Twist Drill Co.
*†U. S. Navy Yard
ROCHESTER—*†Furnald, John C.
*†§Rochester Fdry. & Machine Works
SALMON FALLS—†Somersworth Foundry Co. (Stoves, Ranges, etc.)
SOMERSWORTH—*Brackett, Shaw & Lunt Co. (Gasoline Engines, etc.)
SUNAPEE—*†Smith, N. A.
§U. S. Hame Co. (Wood Hames)
UNION—§Hamlin, E. F. Brass Co.

## NEW JERSEY.

AMPERE — *Crocker-Wheeler Co. (Electric Machy.)
ARLINGTON—*§Lovell, F. H. Co. (Brass & Copper Goods)
*O'Meara Valve Co. (See New York)
*Stiles, T. George Co. (R. R. Appliances)
ASBURY PARK—*†§Murphy Foundry & Mfg. Co.
Parisen, Richard F.
ATLANTIC CITY—*Bowen, F. H.
*Corkran & Maloney
*Seashore Machine Works (Inc.)
BARTLEY—*†Bartley, R. C. Co. (Steam Heaters)
*†§Bartley, Wm. & Sons (Saw Mill Machy.)
BAYONNE—*†Babcock & Wilcox Co. (Water Tube Boilers, etc.). Main Office, New York City)
§Bayonne Casting Co. (Morel Metal Castings)
*†Bayonne Fdry. & Machinery Co.
*Bayonne Gas & Electric Fixture Works
*Bergen Point Iron Works (Coal & Ore Handling Machinery)
†Clark's Iron Foundry
*Crane Motor Car Co. (Auto Builders, etc.)
*Electric Launch Co. (Gas Engines, Launches, etc.)
*Electro-Dynamic Co. (Electrical Specialties)
*Knickerbocker Metallic Bed Co.
BELFORD—*Walling, Luther
BELLE MEAD—*New York Flatiron Co. (Punching Dies & Drawing Work)
BELLEVILLE—§Delaney, Edward
*†§Eastwood Wire Mfg. Co. (Iron, Brass & Bronze Castings, Special Machy., etc.)
*ECK DYNAMO & MOTOR CO. (Dynamos, Motors, Fans & Generators). (See adv. index, end of book)
*Hoppen, J. E. & Son
*Thomson, C. A. Machine Co. (Bakers' Machinery)
BLOOMFIELD—*†American Malleables Co. (See Lancaster, N. Y.)
*Empire Cream Separator Co. (Cream Separators)
*§Jenkins Mfg. Co. (Brass & Composition Castings of All Kinds & Plumbers' Brass Goods, etc.)
*Sprague Electric Co. (See New York City)
†Taylor, Jas. L. Mfg. Co. (Iron Clamps, etc.)
*Tower & Lyon Co. (Hardware, etc.)
*White, Ira F. & Son (Hdw. Specialties)
BOONTON—†General Foundry Co.
*Whitehead, Oscar P. (Machinist)
BORDENTOWN—*Bordentown Forge & Ma-
*†§Riverview Iron Works chine Co.
*Swift, Geo. W., Jr. (Machy., etc.)
BOUNDBROOK—*†American Engine Co. (En-
*§Graphite Lubricating Co. gines)
*†§Timmis & Clissold
BRIDGETON—*†Bridgeton Iron Works
*Cox Bros. (Canning Mach'y, etc.)
*†Cox & Sons Co. (Engines & Heating Ap-
*§Crescent Art Metal Co. paratus)
*Ferracute Machine Co. (Sheet Metal Working Machy., etc.)
*Hettinger Engine Co. (Gas & Gasoline Engines, etc.
BURLINGTON—*†§Devlin, Thos. Mfg. Co. (Saddlery Hardware, etc.) (See Phila.,
†Lindsay, John C. & Co. Pa.)
*†Stuart & Peterson Co. (Enameled Iron Ware, etc.)
*†U. S. Cast Iron Pipe & Fdry. Co. (Cast Iron Pipe). (See New York City)
CAMDEN—*Blair Mfg. Co. (Machinists' Tools)
*†Camden Foundry Co.
*†Camden Iron Works (Pumping Machy., etc.). (See Phila., Pa.)
*§Camden Metal Co.
*†§Dialogue, John H. & Son (Iron & Steel Ship Builders)
*Estabrook Steel Pen Mfg. Co. (Steel Pens)
*Frand, Martin J. & Co.
*Groff Drill & Machine Tool Co. (Ratchet & Track Drills, etc.)
*Hunt, C. Howard Pen Co. (Steel Pens)
*Industrial Mfg. Co. (Sewing Machines)
*Lambert & Todd Machine Co.
*Matnis, John H. & Co. (Ship Builders)
*Morton, Wm. W. & Co. (Machinists)
*New Jersey Wire Stitching Machine Co.
*New York Ship Building Co. (Iron & Steel Ship Builders)
*Phoenix Meter Co. (Gas Meters & Appliances)
*Quigley, Davis & Dorp (Machinists & Ship Builders)
*Smith & Sinclair (Machinists)
*†Southwark Scale Co. (Scales, etc.)
*Victor Talking Machine Co. (Talking Machines)
*Webster, Warren & Co. (Machinists & Feed Water Heaters, etc.)
*†Wood, R. D. & Co. (See Phila., Pa.)
CARLSTADT—*Bergen Mfg. Co. (Machinists)
§Klaber, S. & Co. (Bronze Founders)
CARTERET—*†§Wheeler Condenser & Engineering Co. (See New York City)
CEDAR BROOK—*Bailey, Frank (Drying Machines, etc.)
CEDARVILLE—*Garrison, H. S. (Sand Washing Machines)
CHROME—*†Chrome Steel Works (Chrome Steel & Specialties)
DOVER—*McKiernan-Terry Drill Co. (See York City)
*†Richardson & Boynton Co. (Stoves) (See New York City)
DUNELLEN—*Hall Printing Press Co. (Printing Presses, etc.)
*RANSOME CONCRETE MACHINery Co. (Concrete Mixers, Cranes, Hoists, etc.). (See adv. index, end of book)
EAST NEWARK—†§Hewitt, John, Foundry Co. (Iron, Brass & Aluminum)
*Horstmann, F. W. Co.
EAST ORANGE—*Collinson, Joshua
Smith, A. P. Mfg. Co. (Brass Founders, Tapping Machines, Pipe Cutting Machines, etc.)
EDGEWATER—†Davis Foundry Co.
ELIZABETH—*†American Gas Furnace Co.
*American Swiss File & Tool Co. (See New York City)
*Ball & Wood Co. (Steam Engines) (See New York City)
*Braunsdorf-Mueller Co. (Tools, etc.)
*†§BROWN, A. & F. CO. (See New York City)
*†Colwell Lead Co. (Plumbers' Supplies) Office, New York City
*Diehl Mfg. Co. (Electric Fans, etc.)
*Duncan Bros. (Machinists)
†Elizabeth Foundry Co.
*Elizabeth Machine & Iron Works (Engines, Special Machy., etc.)
*†Hitchings & Co. (See New York)
*Kelly, P. J. (Tool Holders, Tops, Thread Cutters, etc.)
*Kullander, Chas. (Machinist)
*†§Moore, Sam'l L. & Sons Corp. (Machinists, Iron & Brass Fdrs.)
*†Moore Bros. Co. (High Grade Grey Iron Castings & Machine Work)
*Redfield, Robt. S. & Co. (Filter Presses, etc.)
*†§Singer Mfg. Co. (See New York City)
*Stephenson, John Co. (Electric Car Builders). (See New York City)
†United States Grate Bar Co.
*Walsh, James J. (Calculating Machines)
ELMER—Charlesworth, G. A. (Millwright & Machinist)
*Woolbert, Chas. W. (Millwright, etc.)
FLEMINGTON—*†§Floran Fdry & Mfg. Co.
*Mallory Mfg. Co. (Hdw. Specialties)
FLORENCE—*†§Florence Iron Works (See Phila., Pa.)
FORT LEE—*Vogel, Chas. (File-Cutting Ma-
FRANKFORT—*Clawson, C. C. chines)
FREEHOLD—*†Bawden, J. H. Co.
*Stokes Bros. Mfg. Co. (Rasps, Files, etc.)
GARFIELD—*De Mattia Bros.
GARWOOD—*Bell Electric Motor Co. (See New York City)
*†§Garwood Bronze & Iron Works (Grey Iron, Brass, Bronze & Aluminum Castings, etc.)
*†Garwood Electric Co. (Dynamos, Motors, etc.)
*Hall Signal Co. (R. R. Signals, etc.) (See New York)
*†Thatcher Furnace Co. (See New York City)
GLASSBORO—*†Carnell, Wm. & Son
GLOUCESTER CITY—*†Rogers, John M., Works (Machinists' Fine Tools, etc.)
GRENLOCH—*†Bateman Mfg. Co. (Agrl. Implements & Light Grey Iron Castings)
HACKETTSTOWN—*†American Sawmill Machinery Co. (Saw Mill Machy., etc.)
*†§Bowers, Michael B.
*†Drake, W. H. (Steam Heating Apparatus)
HADDONFIELD—†Reeves, S. V. (Stoves, etc.)
HAINESPORT—*†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings). (See New York City)
HARRISON—*†American Radiator Co. (See Chicago, Ill.)
*Binsse Machine Co. (Machine Tools, etc.)
*General Electric Co.
*†Greenfield, W. G. & G. (Steam Engines, Pumps, Screw Presses, etc.)
*Hyatt Roller Bearing Co.
*†MARINE ENGINE & MACHINE Co. (Electric Elevators, Pumps, Castings & Machine Work of All Kinds, Castings 100 lbs. to 40,000 lbs. (See adv. index, end of book)
*NATIONAL HOISTING ENGINE CO. (Hoisting Engines, etc.) (See adv. index, end of book)
*Osborn, C. S. & Co. (Harnessmakers' Tools, etc.)
*Parker-Bruen Mfg. Co. (Fire Escapes, etc.)
*†§Shriver, T., & Co. (Brass & Grey Iron Castings, Cranees, Presses, Sugar Machinery, etc.)
*Torrance Mfg. Co. (Textile Machy.)
HASBROUCK HEIGHTS—*Olmstead, L. H. (Machinist & Power Hack Saws, etc.)
HIGH BRIDGE—*†Taylor Iron & Steel Co. (Steel Castings & Steel Specialties)
HIGHTSTOWN—*Peppler, Thomas (Agrl.
Wyckoff Bros. Implts.)
HOBOKEN—§Allison Bros.
*Atkinson, Wm. H. Co., ft. 7th
*Autographic Register Co.
*Brewster Engineering Co. (Blowers & Exhausters, Air Compressors, etc.)
*Buchholtz, Carl, Co. (Wrought Iron & Brass)
*Consolidated Iron Works (Engines,
*†Fagan Iron Works Machy., etc.)
*†Ferguson, F. & Son (Grate Bars, Propeller Wheels, Machinery, Heavy Green Sand, Castings, etc.)
*†§Fletcher, W. & A. Co. (Marine Engines, etc.), 14th & Hudson
§Flynn Bros.
*†Focht's, Geo. Sons (Dumping Tubs & Buckets. Castings, etc.)
*Friedrichs, Carl Iron Works
*Hoboken Brass Foundry, 7th & Madison
*Hunter, Wm. (Machine Engineers & Machinist)
*§Keuffel & Esser Co. (Engineering Instruments, etc.)
*Lutz, Alois M. (Elec. Fixtures, etc.)
*Machine Mfg. Co. (Tools, Dies, Special Machy.)
§Moller, Henry, Brass Foundry
*†New York Switch & Crossing Co. (Frogs,
*Nilson-Miller Co. etc.)
*†Oltmer-Selbach Co.
*†Oriental Metal Bed Co. (Brass & Iron
*Papay, Daniel (Iron Cons.) Bedsteads)
*Penna. R. R. Shops, ft. 12th
*†Reedy Elevator Co. (See New York City)
*Schimper, Wm. & Co. (Metal Goods of Every Description. Spinners, etc.), 322
†Stevens Institute of Technology Ferry
*Tidewater Iron Works
*Tietjen & Lang Dry Dock Co. (Shipwrights & Machinists). foot 17th
*†§Union Iron Works (Dump Cars, Tubs, Buckets, Iron & Brass Castings, Coal & Ore Dumping Machinery, etc.)
*Wilson Bros. Iron Works
HOPE—*†Aten, Henry
IRVINGTON—Irvington Mfg. Co. (Tools, etc.)
*Rademacher, A. E. (Scales, etc.)
*Tidey, Fred W. (Saw Tables, etc.)
JERSEY CITY—*Ames, W. & Co. (Machine Shop for Repairs)
†Berthe, Albert, 3718 Hudson boul
*†Boynton Furnace Co. (Iron Fdrs., Furnaces. Ranges & Heaters), Pacific av, opp. Bramhall av. (See New York City)
*§Brady Brass Co. (Brass Fdrs. & Finish-
*Clute, H. C., 380 Wayne ers), 202 10th
*Cockburn Co. (Contractors & Industrial Equipment & Machine Work)
†Colby, E. B. & Co. (Stoves, etc.)
*Corcoran, A. J., Inc. (Pumps, Windmills, Tanks & Towers, etc.)
*Davis, Jas. & Son (Elevators, etc.), 463 Pacific av
*Erie R. R. Machine Shops, Provost & 11th
*Flynn, W. S. (Marine Engines & Boilers, etc.)
*Frank & Hedden Co. (Tools, etc.), 33 Susex

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*Fraser Mfg. Co. (Coffee Machy., etc.), Henderson & 13th
*†Gibson Iron Works Co. (Fdrs. & Machinists, Dumping Grates, etc.), 170 1st
*§Gothberg, H. & E. (Brass & Bronze Finishers), 139 Cator av
*Gould & Hedley, 113 Plymouth
†*§**GRISCOM-SPENCER CO., Grand & Sussex.** (See New York.) (See adv. index, end of book)
*Hamill, Alex (Structural & Ornamental Iron Work), 426 Montgomery
†Hudson Foundry Co.
*†Hitchings & Co. (Green House Bldrs.)
*Jersey Development Co. (Dies & Tools), §Kato Mfg. Co. (Bronzes, etc.) 46 Morris
*†Kellogg, M. W. Co.
*Koven, L. O. & Bro. (Heavy Sheet Metal Works, etc.)
*Koven, Theo. (Machinist), 235 Sherman av
§Krouse, Geo. (Heavy Brass & Phosphor Bronze Castings), 154 Morgan
*†McCabe, Jas. J., 362 10th. (See New York City)
*McLaughlin, Thos., 53 Essex
*Mack, Thos. A. Mfg. Co. (Machinists), 401 St. Paul's av
*§Magnus Metal Co., 364 9th
*†Marcy Stove Repair Co., 340 Grove
†Mersereau Metal Bed Co., 292 Johnston av
*Miller, Alex & Bro. (Engineers, Machinists & Boilermakers), 10 Morris
§Murphy, Wm. J.
*New Jersey Car Spring & Rubber Co. (Car Springs, etc.), R. R. av. & Bruns-
†New York Foundry Co. wick
†New York Metallic Bedstead Co., 198 Pacific av
*†§Patterson-Allen Engineering Co., (Valves. etc.), West Side av. (See New York City)
*Rossiter, MacGovern & Co., ft. Morris. (See New York City)
Schalkenbach & Budke (Dumping Buckets, etc.), 402 Claremont av
*Schroeder, Edw., Lamp Wks. (Brass Goods, Lamps, etc.), 716 Jersey av
*†See, A. B., Electric Elevator Co. (Elevators, etc.), Pacific av
*†Smith, Theo. & Sons Co. (Machinists & Fdrs.), ft of Essex
*†**SNEAD & CO. IRON WORKS** (Iron Founders & Builders, Iron & Steel Work), ft of Pine. (See adv. index, end of book)
*§Spindler & Deringer (Brass Finishers, etc.), 243 Mercer
*†Steele & Condict (Inc.) (Rock Crusher Parts, Castings & Refrigerating Machines)
†West Bergen Iron Fdry. (Powell Bros., Props.), 261 Grant av
*White, Geo. Co. (Automatic Machinery, etc.), 24 Morris
*Wickes Bros., West Side av. & Claremont (See Saginaw, Mich.)
*§Williams, E. A. & Son (Brass & Bell Founders), 105 Plymouth

KEARNY—§Nelson & Bone
KENILWORTH—*American Circular Loom Co.
*†Wright, Chas. E. Co. (Wood Working Machy.)
LAKEWOOD—*Lakewood Garage & Mach. Co.
LAMBERTVILLE—*†Coombe & Massey
*Kukler, Layton T.
LEBANON—*†Sovereign Foundry & Mfg. Co. Saw Mill Machinery, Castings, etc.)
LINCOLN—*Atlas Mineral & Machine Co. (Mining Machinery, etc.)
LODI—*†Gregg Co. (Ltd.) (Industrial Railways, Cars, Trucks, etc.)
United Piece Dye Co. (Machine Shop for Their Own Use)
LYNDHURST—*§Leslie Co., Inc. (Pressure Regulators, Brass & Bronze Castings,
MADISON—†Force, C. C. & Son etc.)
MAHWAH—*†American Brake Shoe & Foundry Co. (Corliss Engines, Ice Machines, Grey Iron Castings, etc.)
MATAWAN—*†Levett Mfg. Co. (Dynamos, Motors & Plater's Supplies)
*†§Matawan Steel & Iron Co.
METUCHEN—*Borgfeldt, N. H. & Co. (Cigar Machy.)
MILLINGTON—*Nash, Duane H. (Inc.) (Har-
MILLVILLE—†Madden & Gaskill rows)
*Owen, Isaac A. Jr. (Machinist)
MORRISTOWN—*Dutton, Willis H. Co.
MOUNT HOLLY—*†§Risdon-Alcott Turbine Co. (Turbines. etc.)
NAUGHRIGHT—*†Hopler Bros. (Heaters, etc.)
NEWARK—*Ahrend, Herman & Son (Locks, etc.), 179 Van Buren
*Albee, H. M. (Hatters' Machy.), 24 Boudinot
*Almond, David (Hat & Fur Machy.), 24 Hacket
*American Transformer Co. (Electrical Specialties), 145 Miller
*Anderson, Geo. & Co. (Diamond Cutting Machines)
§Art Metal Works (Bronzes etc.), 7 Mulberry
*†Atha Steel Casting Co. (Steel Castings)
*Atha Tool Co. (Cast Steel Tools, etc.)
*Automatic Weighing Machine Co. (Automatic Weighing Machines)
*Backus Water Motor Co. (Gas Engines, Water Motors, etc.)
*Bailey, Wm. J. (Jewelers' Tools, Dies, etc.), 52 Columbia
*†Barlow Foundry Co. (Grey & Malleable Iron Castings)
*†Barnett, Oscar, Foundry Co. (Tools & Grey Iron Castings, etc.), 105 Hamilton
*Belcher, Jos. H., 231 Mulberry
*Bernz, Otto (Plumbers' Tools & Specialties, etc.)
*†Bless & Drake (Inc.), 175 N J R R av
*Blevney, Jno. C. (Polishing Machines, etc.)
*§Brabson Bros. (Saddlery Hardware), Liberty & Hamilton
§Brass Founders' Supply Co. (Brass Molds, etc.). 20 Prospect
*Brooks, E. J. & Co. (Inc.) (See New York City)
§Buerman, August (Saddlery Hdwe., etc.)
†Burns, Thos. H. & Son, 201 Commerce
*Burroughs, Charles Co. (Machinist & Hydraulic Machinery), 141 Commerce
§Bushauer, Peter (Est. of) (Brass Fdry.) 261 Elm
†Central Foundry Co. (See New York City)
*§Chambers & Co. (Brass Work for Steam, Gas & Water & Brass & Composition Castings)
*Chapman, W. H. & Co. (Machinists), 227 Mulberry
*Chase, Edw. O. (Fine Machy.), 50 Lawrence
*†Clark, Jas. T. Co. (Edge Tools, etc.), 72 Adams
Climax, J. H. W. Co. (Locks, Latches, etc.), 275 Passaic
*†Currier, Cyrus & Sons (Paper Mill Machinery, Cranes, etc.)
*Delany, D. & Son (Carriage & Wagon Springs, etc.), 2 Liberty
*Dennis Mfg. Co. (Stone Working & Special Machy., etc.), 263 Passaic
*Diffany & Co. (Jewelers' Dies, etc.), 29
*Drake, M. S. (Machinist) Congress
*†Drake, W. H. (Heaters, etc.), 36 Clinton
*Ellis Adding Typewriter Co. (Adding Machines), 204 Morris
*Emory, Robt. J. & Co. (Machinists), 27
*†§Essex Fdy., Murray & Av D Runyon
*§Foster Engineering Co. (Steam & Engineers' Specialties, etc.)
*Freeman, Arthur W., 67 N. J. R. R. av
*§Gammon Meter Co. (Water Meters)
†Goeller Iron Works (Builders' Iron Work), 394 Frelinghuysen av
§Goldsmith, C. A. (Brass Fdry.), 42 Cutler
*†Gould & Eberhardt (High Class Machine Tools)
*§Gould's, M. Son & Co. (Brass Goods, §Griffoul, August etc.), 61 Hamilton
*Groch, Max. 41 Av L
*§Hanson & Van Winkle Co. (Platers' Machinery & Supplies)
*Hartig Standard Gas Engine Co., 14 Commercial
*†Hay Foundry & Iron Works (Builders' Castings & Iron Works), 93 Plum
*Healy, Geo., 11 Alling Point la
*§Hedges & Bro. (Brass Castings & Finishers & Plumbers' Brass Goods), 10 R. R. pl
*Heller Tool Co. (Farriers' Tools, etc.)
*†§Hewes & Phillips Iron Works (Corliss Engines & Iron & Brass Castings)
†§Hewitt, Jno., Foundry Co. (Iron, Brass & Aluminum Castings)
*Huebel Mfg. Co. (Padlocks, etc.), 103 Monroe
*Hydraulmatic Co. (Gas Stoves & Ranges), 106 Thomas

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

*†Isbell-Porter Co. (See New York City)
*§Jost's, Edmund, Sons (Machinists & Fdrs.), 48 Dickerson
*King, Wm. H. Co,, 25 Canfield
*Klaus & Co. (Machinists), 5 Vincent
*LAMBERT HOISTING ENGINE Co. (Hoisting Engines & Hoisting Machinery, etc.) Office & Works, 115 Polnier. (See adv. index, end of book)
*La Vergne Pump & Machine Co. (Power Pumps, etc.)
§Lawrence, L. & Co., 292 Halsey
*†§Lidgerwood Mfg. Co. (See N. Y. City)
†Lienau's, C. C. Sons, 308 Fairmount av
*§Lovell-McConnell Mfg. Co. (Electrical Appliances)
*Lowentraut, P. Mfg. Co. (Skates, Tools, etc.), 36 Brenner
*Loy & Nawrath (Sheet Metal Working Machinery), 25 Runyon
*†McCabe Boiler Works (Steam Boilers, Smoke Stacks, etc.), 193 Commerce
§McCarthy, John (Brass Fdry.), 745 N 6th
*McLeod, Jno. H. (Leather Finishing Machy.), 17 Treat pl
†Maher & Flockhart (Iron Fdrs.), 76 Polk
*Marx-Winkler Co., 475 Washington
†Meeker Foundry Co. (Malleable & Grey Iron Castings), 95 Clay
*Meisselbach-Cattucci Mfg. Co. (Machine Tools)
†Metcalf, Jas. & Co. (Machinery Builders, Castings, etc.), 126 Polk
*Meyer Machine & Tool Works (Tools, Dies & Moulds), 88 McWhorter
*Millington & Bradshaw (Tools & Machinery), 69 N. J. R. R. av
*Morgan, Edward (Special Machinery), 15 Franklin
†Morrison Foundry Co., 111 Gotthart
*Muller, Fred (Hat Machy.), 214 Lackawanna
*MUNDY, J. S. (Hoisting Engines, etc.), 22 Prospect. (See adv. index, end of book)
*National Lock Washer Co. (Lock Washers, etc.), 65 Johnson
*National Saw Co. (Saws & Sawing Specialties), 15 River
*§Newark Brass Works
*Newark Gas Engine Co. (Gas Engines), 676 N 6th
*Newark Gear Cutting Machine Co. (Gear Cutting Machines & Special Machinery)
*Newark Leather Machinery Co. (Leather Working Machinery)
*Newark Rivet Works, 262 Lafayette
*Newark Tube & Metal Works (Steel Tubes, etc.)
*Noble & Hunt (Machinists), 359 Mulberry
*Ohl, Geo. A. & Co. (Sheet Metal Working Machy., Trunk Mfrs.' Machy., etc.), 157 Oraton
*Pfaff & Kendall (Pipe Cutting & Threading Machines, Nipples, Columns, etc.) Ferry & Foundry
*§Phoenix Lock Works (Locks, etc.), 3d av. & 4th
*Plumb, David S. (Clock Movements), 57 Park
*Positive Lock Washer Co. (Lock Washers, etc.), 181 Miller
*Redman, C. H. & Co. (Tools, Machines, etc.), 48 Dickerson
*Reeves Engine Co. (Steam Engines, etc.)
*§Riley-Klotz Mfg. Co. (Metal Goods, etc.)
†Riverside Mfg. Co. (Furnace Regulators & Heating Specialties), 162 Riverside av
†Riverside Steel Castings Co. (Crucible & Vanadium Steel Castings)
*Robinson, M. W. Co. (See New York)
*†Royal Machine Co. (Electric, Special Machinery, etc.). 61 N. J. R. R. av
*Ruesch, H. J., Machine Co. (Jewelers' & Silversmiths' Machy., etc.), 28 Green
†Sacks, Louis (Iron F'dry) (Grey Iron Castings), Hamburg pl & Av L
*Sayre, L. A. & Co. (Tools, etc.). 332 Mulberry
*Seitz, F. A. Co. (Gasoline Motors, etc.), 145 Frelinghuysen
*Schnefel Bros. (Cutlery & Specialties)
§Schueler, Anthony & Co.
*Skinner & Leary (Engineers & Machinists), 13 R. R. pl
*Skipp, Jas. & Son (Pearl Button Machy), 25 Hackett
*Sloan & Chace Mfg. Co. (Ltd.) (Precision Mach'y.)
*†Smith's, Albert, Sons (Iron Railing, Builders' Hdwe., etc.), 73 N. J. R. R. av
§Steffens, Amberg Co. (Saddlery, Hardware)
*Sterling-Meaker Co. (Electric Railway Supplies), 420 Ogden

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*Stucky, Jacob, 17 Alling
Sun Typewriter Co. (Typewriters)
*†Thatcher Furnace Co. (See New York City)
*Tirrill's Gas Machine Lighting Co. (See New York City)
*†§Traud, Alex. Co. (Castings & Embossing Presses, etc.), 5 Maine
*Tube Bending Machine Co.
*Tucker, C. F. & Co. (Tool Makers), 93 Green
*†§Turner Machine Co. (Iron & Brass Fdrs. & Special Machy.)
*†§Universal Caster & Foundry Co. of N. J., 108 Adams
*†Watts-Campbell Co. (Corliss Engines & Iron & Brass Castings), 298 Ogden
*§Wheaton, A. W., Brass Works (Brass Fdrs. & Finishers)
*§Whitehouse, Ed. A. (Saddlery, Hdw, etc.)
§Wiener-Barnet Co. (Saddlery, Hdwe., etc.)
*Wright, L., Jr. (Machine Works), 9 Alling
*Yule & Carley Mfg. Co. (Hat Machy.)
*Zeh & Hahnemann (Presses, Dies, etc.)
§Zusi, Edward, 80 Mechanic
§Zusi, Edw. A. (Brass Fdry.), 101 Monroe

NEW BRUNSWICK—*Consolidated Fruit Jar Co. (Metal Specialties)
*Crawford Mfg. Co. (Machinery Mfrs.)
*†Empire Foundry Co. (Brass & Grey Iron Castings)
*Kilbourn Knitting Machine Co. (Knitting Machinery, etc.)
*Kilbourn Mfg. Corp'n (Textile Machy.)
*Lea, Thos. (Boring Tools, etc.)
*†§Marine Mfg. & Supply Co. (See New York City)
*Neverslip Mfg. Co. (Horseshoes & Toe Calks)
†§New Brunswick Iron Works (Brass & Iron Castings, Forgings, Builders' Iron Work, Patternmakers), 9 Water
*New Brunswick Refrigerating Co. (Ice Making Machinery)
*Potter Mfg. Co. (Motors, etc.)
*†Waldron, Jno. Co. (Machinery & Castings)

NEWTON—*Farrell, Jno.
OCEANIC—*Yerrington, Henry W.
ORANGE—*Bates Mfg. Co. (Automatic Numbering Machines, etc.)
*Bulkley, Henry W. (Steam Pumps & Condensers)
*Edison Mfg. Co. (Electrical Specialties)
*Edison Phonograph Works, Inc. (Phonographs)
*National Phonograph Co. (Phonographs)
*Orange Machine & Mfg. Co. (Machinists)
*Pike Adding Machine Co. (Adding Machines)
*Townsend, S. P. & Co. (Lawn Mowers)

PASSAIC—*Antoine & Son
†Binns, Henry (Iron Fdry.)
*Botany Worsted Mills (Machine Shop for their own use)
*De Vries Bros. (Jobbing Machinists)
*†§Eagle Iron & Brass Foundry (Inc.).
†Latham Bros.
*Lyall, J. & W. (Textile Machy., Looms, etc.)
*†Magor Car Co. (See New York)
*Novelty Iron Works
*Richardson Scale Co. (Scales)
*†Robins Conveying Belt Co. (Conveying Machy. & Hoisting)
*Standard Sheet Metal Co. (Air & Automobile Pumps, etc.)
Uehling Instrument Co. (Pyrometers, Composimeters, etc.)

PATERSON—*†§American Locomotive Co. (Locomotives). (See New York City)
*§Asbell, S. J. Co (Brass Goods)
*†Atherton Mach. Co. (Textile Mach'y, etc.)
*Atwood Machine Co.
†Barker, Fred. Co. (Iron Fdrs.)
*Bogert-Carlough Co.
*§Casson, Robert H.
*†Eastwood, Benj. Co. (Textile Mach'y., Shafting, Pulleys & Hangers, Iron & Brass Castings, etc.)
*†Finigan-Zabriskie Co. (Cordage Machy., etc.)
*Hakemeyer, Chas. & Co.
*Hindley, E. B. (Silk Machinery)
†Hilton, Samuel
*Johnson-Van Vlaanderen Machine Co.
*King-Quick-Gerber Co. (Machinists)
*Knapp, C. H. (Textile Machy., etc.)
*†§McNab & Harlin Mfg. Co. (See New York City)
*Morrison, Jas. L. Machine Co.
*Royle, John & Sons (Photo Engraving, Rubber & Textile Machy., etc.)
*Shaw & Cocker Mach. Co. (Silk Machy.)
*Sipp Electric & Machine Co. (Silk Machinery, Gas Engines, etc.)
§Taylor, Robt. & Son (Brass Fdry.)
*Terhune, J. I. Machine Works (Silk & Velvet Finishing Machy., etc.)
*Universal Foundry Co.
*Vreeland, Chas. & Co.
*†Watson Machine Co. (Cordage & Silk Mill
*Widmer Bros. Machy., Castings, etc.)
*Wood Drill Works (Rock Drills)

PAULSBORO—*Cox, I. G. & Bro. (Agricultural Implements, etc.)
PENNGROVE—*Homan, Vandever S. (Gasoline Engines)
PERTH AMBOY—§Hoyt Metal Co. (See St. Louis, Mo.
†Marcy Stove Repair Co. (Stove Re-
*Perth Amboy Dry Dock Co. pairers)
*†§Perth Amboy Foundry & Machine Co.
*Raritan Dry Dock Co.
*†§Schantz & Eckert (Machinery Builders)

PHILLIPSBURG — *†§Firth, Roland & Son
*†§INGERSOLL - RAND CO. (See New York City. (See adv. index, end of
*Tippett & Wood of book)
*†Warren Foundry & Machine Co. (Cast Iron Pipe & Water Works Specialties)

PITTSTON—*Cregar, Matthias
PLAINFIELD—*Laing Machine Auto Repair Co.
*Manganese Steel Safe Co. (Safes, etc.)
*†Niles-Bement-Pond Co. (See New York City)
Q. M. S. Co. (Cranes, Hoists, Cold Saws, etc.)
*†Potter Printing Press Co. (Printing Presses, etc.)
*§Rushmore Dynamo Works (Projectors Acetylene Generators, etc.)
*†Scott, Walter & Co. (Ptg. Presses, etc.)

POTTERSVILLE—Excel Mfg. Co. (Grinding Mill, Crushers & Pulverizers)
RARITAN—*†§Kenyon, D. R. & Son (Textile Machinery)
RED BANK—*†Roberts Safety Water Tube Boiler Co.
RIEGELSVILLE—Taylor, Stiles & Co. (Rag Cutting Machines, etc.)
RIVERSIDE—†Riverside Metal Co.
*Riverside Steel Spring Co. (Car Springs, etc.)
ROCKAWAY—*†Hoagland's, M. Sons Co.
ROSELLE—*Shedd Electric Co. (Motors, etc.)
*§Watson-Stillman Co. (Hydraulic Machinery). (See New York City)
RUTHERFORD—*†§Fuchs & Lang Mfg. Co. (See New York City)
SADDLE RIVER—†Packer, W. H.
SALEM—*Ayars Machine Co. (Canning & Can Making Machinery, etc.)
*†§Salem Brass & Iron Mfg. Co.
SEWARREN—†Vulcan Detinning Co. (Sash Weights)
SMITHVILLE—*†Smith, H. B. Machine Co. (Wood Working Machy., etc.)
SOMERVILLE—*†Somerville Iron Works (Cast Iron Soil Pipe)
*†Somerville Stove Works (Stove Mfrs.)
SOUTH RIVER—*Kelch, Henry
SOUTH VINELAND—*Bidwell, R. O. (Sand Washing Machinery)

TRENTON—*Auers Hardware Mfg. Co.
*Baker Machnie Co. (Rubber Mill Machin-
*Barbour Bros. (Dies, etc.) ery, etc.)
*†§Billingham, P. & Co.
*Butterworth, Wm. H. & Bro. (Gasoline
*Clifford, C. W. (Tools, etc.) Engines)
*†§CROSSLEY MACHINE CO. (Pottery. Tile & Clay Machinery). State & Monmouth. (See adv. index, end of book)
*†De Laval Steam Turbine Co. (Steam Turbines)
*†Fisher & Norris (Anvils, etc.)
*Freeman, E. H. Electric Co. (Electric Specialties)
*Gillingham Iron & Brass Fdy. Co.
*Ivens, Wm. H. Sons Co. (Pottery, Mattress & Spring Bed Machinery)
*Logan, Edw. Machine Co. (Pottery & Special Machinery)
*†§McFarland Foundry & Machine Works (Grey Iron Castings & Repairs)
*†MacKenzie's, Duncan Sons Co. (Steam Engines, Heavy Machinery, etc.)
Motor Car Specialty Co.
*†§Mott, J. L. Iron Works. (See New York City)
†Reeves Foundry Co. (Grey Iron & Sewer Castings, etc.)
*§Roebling, Jno. A. & Sons Co.
*†Skillman Hardware Mfg. Co.
*Spracklin Boiler & Machine Co.
*Stahl, H. E. (Machinist)
†Superior Iron Works
*Sutphin Machine Works
THROPP'S, J. E. SONS CO. (Marine Engines, Rubber Mill Machinery, Pottery Machinery, Cement Machinery, Grey Iron Castings, etc.) (See adv. index, end of book)
*†Throop, Wm. R. Sons Co. (Rubber Machinery, etc.)
*§Trenton Brass & Machine Co. (Plumbers' Brass Goods)
*Trenton Engine Co. (Marine Gasoline Engines)
*†Trenton Iron Co. (Elevating & Conveying & Wire Pointing Machinery)
*Trenton Machine Specialty Co. (Engineers & Machinists)
*†§Trenton Malleable Iron Co.
*†§Watson, John & Sons Co. (Axles & Machinists, etc.)

VINELAND—*Blaisdell, Arland H.
*Frost & Walls (Gasoline Engines)
*Gage Tool Co. (Tools)
*Jackson Vise & Tool Co. (Vises, Tools, etc.)
*Keighley, Wm. B. (Shoe Machinery)
*Leavens Mfg. Co. (Tools, Vises, etc.)
§Weaber, Adam & Son
†Williams Foundry Co.

WEEHAWKEN—*Haas, G. M. Iorn Works
*Hofmann, A.
WOODBINE—*Bayard, M. L. & Co. (Tools, etc.)
WOODSTOWN—*†Wood, Walter A., Mowing & Reaping Machine Co.

## NEW MEXICO.

ALBUQUERQUE—*†Albuquerqle Fdry. & Machine Works
EAST LAS VEGAS—*†Adion, W. L.

## NEW YORK.

ADAMS—*Frazer Bros. Co.
AKRON—*†Thayer, T. & Son
ALBANY—*§Albany Brass & Iron Co.
*†Albany Car Wheel Co. (Car Wheels)
*†Albany Fdry. Co. (Gas Heaters, Ranges, Gas Oven Furnaces, etc.)
†Albany Malleable Iron Co. (Malleable Iron & Semi-Steel Castings)
*§Albany Steam Trap Co. (Steam Traps, Aluminum Castings, Finishing & Plating, etc.), 319 N Pearl
*Breslin Bros. (Machinists), 68 Church
*Brohm & Molitor (Files, etc.)
*Burdick & Son (Stove Specialties, Dies, etc.), Hamilton c Mosher
†Campbell, Harry E. Co. (Archl. Iron, etc.)
*§Consolidated Car Heating Co. (Car Heaters, etc.), 423 N Pearl
*§Cox Brass Mfg. Co. (Brass & Bronze Castings)
*†Dederick's, P. K. Sons (Hoisting Engines, Baling Presses, etc.), Tivoli
*†§Federal Signal Co. (Railway Signals)
§Fitzgerald, John L.
*†§Gaynor, Peter F.
†Hartnett, Jno. J. (Iron Foundry)
*Kelly, Luke J. Mfg. Co. (Lifting Jacks, Windlasses, etc.), 307 N Pearl
*Kemp, Jas. N. (Grinding & Polishing Machinery, etc.), 887 Broadway
*†Littlefield Stove Co. (Stoves & Ranges)
*†McKinney, Jas. & Son (Builders' Iron Work, etc.). 929 B'way
*Nicholson, Aaron (General Jobbing), 11 Church
†Rathbone, Sard & Co. (Stoves), N. Ferry & Rathbone
*Skinner & Arnold Co. (Steam Engines, Propeller Wheels, etc.), 207 B'way
*Stevenson & Leonard Machine Co.
*†Thacher, Geo. H. & Co. (Fuel Economizers, Grate Bars, Grey Iron Castings, etc.)
*†Townsend Furnace & Mach. Shop Co. (Light & Heavy Mach'y. Castings, Paper Mach'y., Hydraulic Presses, etc.)
*Van Nonhuis, E. C., 41 Liberty

ALBION—*†Edgar, M. & R.
ALEXANDRIA BAY—*Buffalo Gasoline Mo-
*Tessey, Lewis tor Co. (See Buffalo)
ALFRED—*Rogers Machine Tool Co. (Boring
AMBER—*Kenyon, Wm. & Turning Mills)
*†Newman, Addison
AMENIA—*†Fry, B. H. (Stoves)
AMSTERDAM—*Hayflinger, John & Son
*†Inman Mfg. Co. (Paper Box Machy.)
*Johnson, C. P. (Machinist)
*†§Klauder-Weldon Dyeing Machine Co. (Textile Mach'y)
*MacCordy Button Machine Co. (Button
*†§Perkins Foundry Co. Mach'y, etc.)
*Shuler, W. S., Spring Co. (Springs, etc.)

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*Union Special Machine Co. (See Chicago, Ill.)
ANGOLA—*Emblem Mfg. Co. (Bicycles)
ATHENS—*†§Athens Fdy. & Mach. Shop Co.
†Travis, D. W.
ATTICA—*Danley, F. R.
*Glor Bros. & Willis Mfg. Co.
*†Westinghouse Machine Co. (See East Pittsburg, Pa.)
AUBURN—American Wringer Co. (See New York City)
*Bowen Mfg. Co. (Machine Screw Work & Oiling Devices, etc.)
*Bowen & Quick (Threshers, etc.)
*†Clapp, E. D. Mfg. Co. (Carriage Hdw., etc.)
*Eccles, Richard Co. (Drop Forgings, Carriage, etc.)
†Enterprise Foundry Co.
*Henry & Allen (Machine Knives, etc.)
*†§INTERNATIONAL HARVESTER Co. of America, Osborne Plant. (See Chicago, Ill.) (See adv. index, end of book)
*†McIntosh, Seymour & Co. (Steam Engines, etc.)
*Malcolm Rifle Telescope Mfg. Co.
*Meyer & Co. (Iron Nuts, Axle Collars, etc.)
*Wadsworth, David & Son (Scythes, etc.)
AVON—*†Champion Drill Co. (Grain Drills, Cultivators, etc.)
BAINBRIDGE — *American Separator Co. (Cream Separators)
*Empire Motor & Machine Co.
BALDWINSVILLE—*Baldwinsville Garage Co. Jobbing & Repairs)
*Fancher Machine Co. (Canning Machinery)
*†§MORRIS MACHINE WORKS (Steam Pumps & Steam Engines, etc.) (See adv. index, end of book)
BALLSTON SPA—*†§Davison-Namack Foundry Co. (Brass & Grey Iron Castings)
*†Reynolds, John W.
*Union Bag & Paper Co. (Repairs)
BATAVIA—*Baker Gun & Forging Co. (Shot Guns, etc.)
*†§Batavia Brass & Iron Novelty Works
*Batavia Clamp Co. (Clamps, etc.)
*Batavia Machine Co.
*†§Johnston Harvester Co. (Agrl. Implts.)
*Rowell Machine Co.
*†§Wiard Plow Co. (Plows & Agl. Implts.)
BELMONT—*†§Clark Bros. Co. (Heavy Duty Gas Engines, Saw Mill Machy., etc.)
BERGEN—*§Miller, Orville (Brass Fdry.)
BINGHAMTON—*American Fork & Hoe Co. (Forks, Hoes, etc.) (See Cleveland, O.)
*†Bowers, L. M. & Co. (Anchors, etc.)
*Canfield, P. B. (Gas Engines)
*Central Mfg. Co. (Gas Irons, etc.)
†Crandal, Stone & Co. (Carriage Hardware, etc.)
*Deyo, Macy Engine Co. (Gas Engines, etc.)
*Doolittle, S. R. & Son (Flue Cleaners)
*Gaylord & Eitapence Co. (Machinists, etc.)
*†§Georgian Mfg. Co.
*Heath, Robt. S. (Machinist)
*†§Jones of Binghamton (Scales, etc.)
*Marvin Electric Drill Co. (Electric Drills, etc.)
*†OSGOOD SCALE CO. (Scales, etc.) (See adv. index, end of book)
*Remington Typewriter Co. (See New York City)
*†Shapley & Wells (Steam Engines, etc.)
*Sharp, W. M., Co. (Dental Machy., etc.)
*†§Stow Mfg. Co. (Flexible Shafts & Electric Motors, etc.)
†Titchener, E. H., & Co. (Wire Gds.)
BOLIVER—*Beatty & Jordan (Machinists)
*†McDonnell & Brennar
BRASHER FALLS—*†§Kennehan, P. E.
BUFFALO—*†Acme Steel & Malleable Iron Works (Steel & Malleable Iron Castings), 245 Military rd
*Aldrich Mfg. Co. (Copper & Brass Goods) 55 Illinois
§Alloys Founding Co. (Aluminum & Brass Castings)
§Allyne Brass Foundry Co. (Brass Fdrs.)
*†American Brake Shoe & Fdry. Co. (See Mahwah, N. J.)
*†American Car & Foundry Co. (See St. Louis, Mo.)
*†American Radiator Co. (See Chicago, Ill.)
†American Seating Co. (See Chicago, Ill.)
*American Shading Machine Co., 164 Rano
Amsden Mfg. Co. (Dies, etc.)
§Archangel, Anthony, 31 Roma av
*Auburn Machine Works, 290 Auburn
*Auto Car Mfg. Co. (Automobiles & Trucks)
†Barcalo Mfg. Co. (Brass & Iron Bedsteads), 225 Louisiana
*Blackhall Mfg. Co. (Bookbinders' Machinery), 196 Seneca
*Brennan, Richard (Dredging Tools, etc.), 35 River
*†Brown Car Wheel Works (Car Wheels, etc.), Howard & Thomas
*Bryant, O. Sons Co. (Radiator & Special Machinery), Dewitt & Bradley
*Buffalo Brake Beam Co., W Seneca. (See New York City)
†Buffalo Car Wheel Foundry Co. (Car Wheels, etc.), Dun bldg
*†Buffalo Co-operative Stove Co. (Grey Iron Castings, Stoves, etc.), Perry & Washington
*Buffalo Dry Dock Co. (Shipbuilders), Ganson & Buffalo Creek
*Buffalo Emery Wheel Co. (Emery Wheels, etc.), 127 Ash
*Buffalo Engine Co. (Fertilizer & Garbage Disposal Machinery), Perry & Washington
*†Buffalo Forge Co. (Engines, Blowers, etc.), Broadway & Mortimer
*†§BUFFALO FOUNDRY & MAchine Co. (Grey Iron & Steel Castings up to 200 tons, Steam Hammers, Drying Machinery, etc. (See adv. index, end of book)
*Buffalo Gasoline Motor Co. (Gasoline Marine Engines, etc.), 1280 Niagara
*Buffalo Gear & Pattern Works, 16 Elk
*Buffalo Machine Mfg. Co., 1354 West av
*Buffalo Machinery Co., 26 Burwell pl
Buffalo Meter Co. (Water Meters & Brass Castings)
*†Buffalo Pitts Co. (Engines, etc.)
*†Buffalo Radiator Co. (Radiators & Boilers)
*Buffalo Reduction Co. (Fertilizers, etc.) 963 William
*†§Buffalo Scale Co. (Brewers & Maltsters, Testing Machines, etc.), 81 Scott
*†Buffalo Steam Pump Co. (Steam Pumps, etc.), 490 Broadway. Works, N. Tonawanda, N. Y.
†Buffalo Structural Steel Co., Dart & Letchworth
*Buffalo Tool & Machine Co. (Woodworking Machy.), 176 Terrace
*Cary Safe Co. (Safes & Locks), Chicago & Scott
*§Case, W. A., & Son Mfg. Co. (Mfrs.', Plumbers' & Steam Fitters' Castings, etc.), 31 Main
*Centaur Motor Co. (Gas & Electric Motors, etc.), 59 Franklin
*†Clark Mfg. Co. (Iron Fdrs. & Hardware Specialties), 260 Chandler
*†Contractors Plant Mfg. Co. (Contractors' Machy & Tools, etc.), 129 Erie
*Crowell, David J. (Saw Tools), 61 Terrace
*Darling, W. J. Machine Co. (Shoe Machinery), 844 Sycamore
†§Day Foundry Co., Illinois & Mary
*Devine, Jos. P. Co. (Drying Drums, etc.)
*Diamond Saw & Stamping Works (Power Hack Saws, Emery Wheel Dressers, etc.)
*Double Truss Cornice Brake Co. (Sheet Metal Working Machy.), 33 Chandler
*Driscoll & Fletcher (Printing Presses, etc.), 164 Ellicott
*Eagle Stamping Co. (Dies, etc.), 357 7th
*†§East Buffalo Iron Works, 9 Grimes
*Eisenhans Machine Works (Printers' Machinists & Special Machinery), 500 Washington
*Emig, J. & Son, 137 Washington
*Empire Machine & Stamping Co. (Presses, Dies & Special Machinery), 59 Terrace
*Empire Shipbuilding Co., ft Genesee
†Ehnest's, Chas. F. Sons (Iron Fdry. & Builders' Iron Work), 65 Lathrop
*Essex & Smith Co. (Machinery Bldrs.), 8 Lock
*Farnham Mfg. Co., 83 Washington
*†Farrar & Trefts (Steam Engines), 60 Perry
*Feine, August (Iron Fdry. & Bldrs. Iron Work), 152 Terrace
*†Fillmore Av. Foundry & Iron Works, 153 Fillmore av
*Fisher, Fred (Dies & Small Machine Work), 98 Broadway
*Fox & Fox (Dies, etc.), 127 Erie
*Frank Machinery Co. (Woodworking Machinery)
§Fries & Co. (Aluminum & Brass Founders & Finishers)
*†Frontier Engine Works (Steam Engines, etc.), ft Illinois
*†Frontier Iron Works (Upright Drills, etc.), Grant & Letchworth
*General Specialty Co. (Machinery Bldrs.), 885 Niagara
†Ginther's, J. Sons (Iron Fdrs. & Bldrs. Iron Work, etc.), B'way & Pratt
†Guillott, Wm., Automatic Metal Casket Co., 1447 Niagara
*Heiser, Wm. & Sons Co., 114 Clinton
*†Holmes, E. & B., Machinery Co. (Wood Working Mach'y), 59 Chicago
*†Howard Iron Works (Bolt & Nut Mach'y, Pulleys, Vises, etc.), 287 Chicago
*†Iroquois Iron Works (Steam Road Rollers, Asphalt Mach'y & Tools, etc.)
*Jetter & Co. (Hardware Specialties, Tools, Files, etc.), 861 Jefferson av
*Jewett, Jno. C. Mfg. Co. (Brass Finishers, etc.), 249 Elm
*†Jewett & Co. (Stoves, Ranges, etc.), Military rd. & City line
†Jones Iron Works (Iron Railings, etc.), 308 Terrace
*Josef, E. E. Mfg. Co. (Brass Finishers, etc.), 14 Perry
*Kelley Electric Machine Co. (Wood Working Tools)
†Kellogg Iron Works (Arch. Iron & Steel Work), Mutual Life Bldg
*Keystone Mfg. Co. (Ratchet Drills, Wrenches, etc.), 41 Chandler
*†§King Iron Works (Trout, Henry G., Prop.) (Marine Engines, Fdrs., etc.), 226 Ohio
*Krasselt, Chas. (Gen'l Machinist, etc.), 101 Ash
*†§Lackawanna Steel Co. (Iron, Steel & Brass Castings & Machine Shop)
*†Lake Erie Engineering Works (Engines, Pumps & Heavy, Rough & Machined Semi-Steel Castings), Chicago & Perry
†Lake Erie Foundry Co., 218 Chicago av
†Lawler Iron Works, 67 Mississippi
*†Lawrence Stove Mfg. Co. (Gas Stoves & Appliances), 1432 Seneca
*Lazier Gas Engine Co. (Gas Engines), 190 Main
*Lobee Pump & Machy. Co. (Pumps, etc.)
*§LUMEN BEARING CO. (Brass Bronze & Copper Castings, Lumen Bearings, etc.) (See adv. index, end of book)
*§Lyman Mfg. Co. (Plumbers' Brass Goods, etc.), 1862 Elmwood av
*McCarthy Bros. & Ford (Electrical Specialties, etc.), 41 Eagle
§McCutcheon, C. H. (Brass Fdry), 18 Ohio
*Manzel Bros. (Automatic Oil Pumps, etc.)
*§Maute, Jacob & Sons (Machinists, etc.), 23 Kane
*Mey Chain Belting Engineering Works (Chain Belting & Elevating & Conveying Machinery, etc.), 34 Washington
§Model Brass Foundry Co.
*Modern Machine Co., 817 Washington
*Monarch Hardware Co. (Hardware Mfrs.)
*National Brake Co. (Inc.), Ellicott sq
*National Welding & Mfg. Co., 1422 Niagara
*†New York Car Wheel Co. (Iron Fdrs., Car Wheels & Couplings, etc.)
*†Niagara Bedstead Co.
*Niagara Gasoline Motor Co. (Gasoline Marine Engines)
Niagara Machine & Tool Works
*†§NIAGARA MACHINE & TOOL Works (Iron Founders, Punches, Presses & Sheet Metal Working Mach'y., etc.), Jefferson, Superior & Randall
*†§Noye Mfg. Co. (Steam & Gas Engines & Flour Mill Machy.), 50 Lakeview av
*†Oldman Boiler Works (Boilers, Castings & Structural Work), 38 Illinois
*Olin Gas Engine Co. (Gas & Gasoline Engines), 12 Lock
*Oliver, A. F. Mfg. Co., 60 Cherry
*Oliver, W. W. Mfg. Co. (Jewelers' Tools & Mach'y, etc.), 1483 Niagara
*†§OTIS ELEVATOR CO., Girder & Northland av. (See New York City). (See adv. index, end of book)
*Phoenix Die Casting Co. (Dies, etc.), 21 Illinois
*§Pierce-Arrow Motor Car Co. (Automobiles, Motors, etc.)
*Pierce, Wm. B. Co. (Boiler Tube Cleaners), 327 Wash'n
*†§Pohlmann, John W. Foundry Co.
*Pomeroy & Stellrecht, 60 Indiana
*†Pratt & Letchworth Co. (Steel & Malleable Iron Castings & Saddlery Hdw., etc.), 189 Tonawanda
*Queen City Engineering Co. (Steam Pumps, Engines, etc.), 49 Illinois
*§Ray, Geo. A. Mfg. Co. (Brass & Copper Goods), 1489 Niagara

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*†Reading Car Wheel Co. (Car Wheels, etc.), Fidelity bldg
*Rice & Adams Mfg. Co. (Creamery Machinery), 176 Chandler
*Robertson Mfg. Co. (Hdw. Specialties, Grading Tools, etc.), 1453 Niagara
*Rogers, S. C. & Co. (Brazing & Excelsior Machy., etc.), 10 Lock
*†Ross, Josiah, Mfg. Co. (Wood Working Machinery), 1443 Niagara
*†Ruger, J. W. Mfg. Co. (Bakers' Machy., etc.), Chicago & Perry
*§Schmahl, John H. & Albee, 471 Ellicott
§Schnell, Fred & Son (Brass Fdry., etc.), 501 4th
*Schwartz, Arthur A., 1866 Bailey av
*§Sherwood Mfg. Co. (Brass Fdrs., Engine & Boiler Specialties, etc.), 1702 Elmwood av
*Sizer Forge Co. (Crankshafts, Marine Forgings, etc.)
*Smith, W. H. Mfg. Co. (Hot Air Engines), 8 Lock
*Smiths'. John E. Sons Co. (Tanners' & Butchers' Machinery, etc.), 50 B'way
*†§Snow Steam Pump Works (See International Steam Pump Co., New York City)
*†Sowers Mfg. Co. (Soap Makers' Machy)
*Squier, Geo. L. Mfg. Co. (Plantation Machy.), 490 B'way
*†§Standard Foundry Co.
*Sterling Engine Co. (Marine Engines, etc.), 1250 Niagara
*†§Stewart Heater Co. (Brass Fdry., Boiler Feed Heaters, Power Pumps, etc.), Norfolk av
*Stoll. D. H. Co. (Presses, Shears, Dies, etc.)
§†Strong Steel Foundry Co. (Steel Castings)
*Superior Machine Works, 181 Carolina
*Taber Pump Co. (Rotary Brewery Pumps, etc.)
†Taylor, W. P. Co., 218 Ellicott sq
*Thomas, E. R. Motor Co. (Automobiles,
*Timmins & Butler, 286 Ellicott etc.)
*†U. S. Brake Shoe Co. (Brake Shoes, etc.) Works: Corry, Pa., & Walton, N. Y.
*†U. S. Cast Iron Pipe & Foundry Co. (See New York City)
*U. S. Hame Co. (Steel Hames, etc.), Watts & Tonawanda
U. S. Headlight Co. (Headlights, etc.), Dart & Latchworth
§Unique Brass Foundry Co., 25 Illinois
*Valentine, Francis J. & Co. (Engines, etc.), 178 Vermont
†Washington Iron Works (Grey Iron Castings)
*Weeks Scale Co. (Scales, etc.), 38 Goodell
*Wegner Machine Co. (Ice & Refrigerating Mchy., etc.), Perry & Mississippi
*Western Inspection Co. (Fire Extinguishers, etc.), 45 N. Division
*White, L. & I. J. Co. (Edge Tools, Machine Knives, etc.), 143 Perry
*Whitman Mfg. Co. (Machinists), 178 Ohio
*§Zero Valve & Brass Mfg. Co. (Brass Founders & Finishers), 417 Chicago

CALEDONIA—*†§Caledonia Bean Harvester Co. (Bean Harvesters, etc.)
CAMBRIDGE—*†Lovejoy Co. (Agricultural Impits. & Grey Iron Castings)
CAMDEN—*†Camden Water Wheel Works
*Hynes, Frank R.
CANANDAIGUA—*Salnave, W. A.
CANASTOTA—*†Cady, C. N. Co. (Gasoline
*Mahan, James Motors)
*Marvin & Casler Co. (Elec. Specialties)
*Watson Wagon Co. (Dump Wagons, etc.)
CANTON—†Dishaw & Dishaw
CARTHAGE—*†Carthage Machine Co.
*†Ryther & Pringle Co. (Paper Mill Mach'y)
*Wilna Machine Works
CASTILE—*†Castile Chilled Plow Co. (Plows, etc.)
CATO—†Dutton, E. Q. & Co. (Iron Fdrs. & Plows, etc.)
CATSKILL—*†Catskill Fdry. & Machine Works (Machinists & Fdrs., Gears, Pinions, etc.)
CATTARAUGUS—*§Century Brass Mfg. Co. (Plumbers' Supplies, etc.)
CENTRAL BRIDGE—*Campbell, S. K. Co. (Threshers, etc.)
CHAMPLAIN—*†§Sheridan Iron Works
CHARLOTTE—*Morrison, H. D.
CHERRY CREEK—*†§Annis, A. W.
CHURCHVILLE—†Snyder, H. F.
CLYDE—*†§Wood, S. W. & Son (Portable & Traction Engines & Brass & Iron Castings)
COBLESKILL—*†Harder Mfg. Co. (Threshers, Clover Hullers, etc.)
*†Rickard, Ira D.

COHOES—*Beattie Mfg. Works (Textile Machinery)
*†Campbell & Clute Machine Co. (Textile & Knitting Machy. & Grey Iron Castings)
*†§Cohoes Iron Foundry & Machine Co. (Slashing Machinery & Elevators & Brass & Iron Castings)
*†Cohoes Rolling Mill Co. (Textile Machy.
*Jordan Machine Co. etc.)
*Kennedy Machine Co. (Textile Machy.)
*McCreary, Edw.
§Quigley, W. H. (Brass & Bronze Castings)
§†Rensselaer Valve Co. (See Troy, N. Y.)
§Slocox, Jos. H. (Brass & Bronze Castings)
*Union Special Machine Co. (See Chicago)
COPAKE IRON WORKS—*†Columbia Plow Works (Plows, etc.)
CORNING—*†Allen, E. R., Foundry Co. (Machinery & Bldrs.' Castings, etc.
*Canfield Brake Co.
†Corning Mfg. Co. (Furnaces)
*Empire Machine Co.
*Hood Furnace & Supply Co.
CORTLAND—*†Cooper Bros.
*†§Cortland Foundry & Machine Co.
COXSACKIE—*†§American Valve Co. (Valve
†Newbury, J. G. Mfrs., etc.)
CROGHAN—*†Farney, J. C. & Son
CROTON FALLS—*Higley Machine Co. (Metal Cutting Off Machines, etc.)
*Juengst, Geo. & Sons
CUBA—†Graves, A. H. (Iron Fdry.)
DANSVILLE—*Engert, Geo. J.
*Power Specialty Co.
*†Sweet, Geo. Mfg. Co. (Mowers & Reapers, etc.)
DEPEW—*†American Car & Foundry Co. (See St. Louis, Mo.)
*†§Gould Coupler Co. (Car Couplers & Malleable Iron Castings). (See New York City)
*§Mangus Metal Co. (Babbitt Anti-Friction Metals, etc.)
†Niagara Forged Steel Co. (Basic Open Hearth Steel Castings, etc.)
*Railway Steel Spring Co. (See New York City)
DESPATCH—*†Ontario Drill Co. (Grain Drills, etc.)
DOLGEVILLE—*Menge, Wm.
DUNKIRK—*†§American Locomotive Co. (Locomotives). (See New York City)
*American Lux Light Co. (Lamps, etc.)
*Dunkirk Machine & Boiler Co.
*Flesher, Chas. H. (Machinist)
*Mulholland Co. (Carriage Springs, etc.)
*Romer Axe Co. (Axes & Edge Tools)
*†United States Radiator Corp. (See Detroit, Mich.)
EAST AURORA—*†Peek, S. H. (Plows, etc.)
EAST ROCHESTER—*†Ontario Drill Co. (Grain Drills, etc.)
EBENEZER—*Gilfillian, F. C. (Gas Regulators)
EDMESTON—*Green, Nelson L.
ELBA—*†Barr, Newton L.
ELBRIDGE—*Elbridge Electrical Mfg. Co. (Dynamos & Motors, etc.)
ELLENVILLE—*†§Hoyt, Canner & Co. (Castings, etc.)
ELMIRA—*§American La France Fire Engine Co.
*Cronk & Carrier Mfg. Co. (Hardware Specialties, Door Hangers, etc.)
*†Elmira Boiler & Iron Works (Jobbing,
†Elmira Foundry Co. etc.)
*†§Field Force Pump Co. (Pumps, etc.)
*Hilliard Clutch & Machy. Co. (Friction Clutches, etc.)
*Horton Basket Machine Works (Basket Machinery)
*†§Kennedy Valve Mfg. Co. (Valves, Hydrants, etc.)
*Moffitt, Jas. W. (Jobbing)
*Morrow Mfg. Co. (Ball Bearing Drill Chucks, etc.)
*§Swift Lubricator Co. (Lubricators,
*Thomas, Chas. (Jobbing) Valves, etc.)
ENDICOTT — *Bundy Mfg. Co. (Adding Machines)
*International Time Recording Co. of New York (Time Recorders & Time Stamps)
EVANS MILLS—*Baum, Howard W.
FAYETTEVILLE—*†Van Wagner, E. B. Mfg. Co.
FISHKILL ON THE HUDSON—*†§Dutchess Tool Co.
*†§Fishkill Landing Machine Co. (Steam Engines, etc.)
*Potter-Morgan Co. (Spring Brakes, etc.)
FONDA—*Mohawk Machine Shop
FORT PLAIN—*Empire State Metal Wheel Works (Metal Wheels, etc.)

*Walrath, Alphonso Co. (Broom Machy.,
*§Yerdon, Wm. (Hose Bands, etc.) etc.)
FRANKFORT—*†Acme Road Machinery Co. (Road Machinery, etc.)
†§N. Y. C. & H. R. Ry. Shops
*Pratt Chuck Co. (Chucks, etc.)
FRANKLINVILLE—*Ontario Knife Co. (Tools
*Stone, F. L. etc.)
FREDONIA—*Hammond, J. W.
FREEPORT—*†§Columbian Brass Foundry
FRIENDSHIP—*†Drake Hdw. Co. (Stoves & Dairy Goods)
*Rumsey, C. B. Engine & Machine Co.
FULTON—*†§Dilts Machine Works (Paper Mill Machy., Castings, etc.)
*†Emeny, G. J. Co. (Ensilage Cutters, Cider Mill Machinery & Hot Air Furnaces)
*Foster Bros. & Chatillon Co. (Edge Tools)
*Hunter Arms Co. (Fire Arms, etc.)
*Hunter Fan & Motor Co. (Water Motors, Fans, etc.)
*Taylor Bros. & Co. (Machine Knives, etc.)
GASPORT—*Friend Mfg. Co. (Spray Pumps, etc.)
*Gasport Motor Co. (Gas Engines, etc.)
GENEVA—*†Collins Iron Works
*Fay & Bowen Engine Co. (Gasoline En-
*McCarroll, W. W. gines, etc.)
*Motor & Mfg. Works Co.
*†New York Central Iron Works Co. (Boilers, Heaters & Castings)
†Phillips & Clark Stove Co. (Stove Mfrs.)
*†Summit Foundry Co. (Stoves)
GLENS FALLS—*†§Dix Foundry & Machine
†Glens Falls Portland Cement Co. Co.
GLOVERSVILLE—*Curtin-Hebert-Anthony Co. (Glove Machinery, etc.)
Corey & Little (Glove & Leather Machy.,
*Dunham & Peck Mfg. Co. etc.)
*†§Steele Mfg. Co.
GOSHEN—*†§Newbury, J. H. (Cast Iron Fittings, etc.)
GOUVERNEUR—*Storie, T. D. & Co.
GOWANDA—*†§Gowanda Agricultural Works (Agl. Impits., Grey Iron Castings, etc.)
*Moench, C. Sons Co. (Repair Work for Tannery, etc.)
*Smallwood, W. R. Mfg. Co. (Corrugated Steel Fasteners, etc.)
†Star Iron Works
GRASSY POINT—*§Wiles, A. M. & W. H. Co.
GREENE—*§Lyon Iron Works (Fdrs. & Machinists. Feed Cutters, etc.)
§Mosher, J. R. Brass Works (Brass, Bronze & Aluminum Castings)
GREEN ISLAND—*Clifford, Jas. J. & Co. (Machinists)
*Sweet & Doyle Foundry & Machine Co. (Grey Iron Castings up to 30 000 lbs.)
GREENPORT—*Gaffga, J. S. & Co. (Gasoline Engines)
*Greenport Basin & Construction Co. (Ship & Engine Builders)
*Hedges, Samuel P. (Machinist)
*Tuthill & Thorn
GREENWICH—*†§Eddy, W., Plow Co. (Plow Mfrs. & Castings)
GREENWOOD—*†Woodward, G. M.
GROTON—*Groton Bridge Co.
*†Monarch Road Roller Co. (Steam Road Rollers, etc.)
*Standard Typewriter Co. (Typewriters)
GUILDERLAND—*†§Guilderland Foundry Co.
GUILFORD—*†§Merchant, A. P.
HAMBURG—*†Baltzer, H. P.
HAMILTON—*†§Graham, Dwight
HAMMOND—*Evans Mfg. Co. (Agl. Impits.)
HAMMONDSPORT—*Curtiss, G. H. Mfg. Co. (Motor Cycles)
HANCOCK—†Stimson, T. F. (Iron Fdry.)
HAVERSTRAW—*†Waldron. Chas. (Brick Machinery)
HERKIMER—*Clark, Jas. A. (Machinist)
†Herkimer Foundry Co.
*Klock, A. B. (Machinist)
*Quackenbush, H. M. (Air Pistols, etc.)
HILLBURN—*†Ramapo Iron Works (Cars, Castings & General Truck Equipments)
HOMER—*Phoenix Hdw. Mfg. Co. (Hardware, etc.)
HONEOYE FALLS—*Honeoye Falls Mfg. Co. (Bean Picking Machy., etc.)
HOOSICK FALLS—*†Noble & Wood Machine Co. (Paper Mill Machy.)
*†§Wood, W. A. Mowing & Reaping Machine Co. (Agricultural Implements, etc.)
HORNELL—†Davis Fdry. (Inc.)
*Deer, A. J. Co. (Coffee Mills, Meat Choppers, etc.)
HORSEHEADS—*†Weller Hdw. & Foundry Co. (Grey Iron Castings & Hdw. Specialties)

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HUDSON — *†§Gifford-Wood Co. (Friction Clutches, Ice Handling Machinery, Castings, etc.)
*†Railway Steel Spring Co. (Car Wheels, Steel Springs, etc.)
HUDSON FALLS—*Friction Pulley & Machine Works (Paper Mill Machy.)
*†§Sandy Hill Iron & Brass Works (Paper Mill Machy & Iron & Brass Castings)
ILION—*Dyett, Frank J. Co.
Fake, E. D.
*Remington Arms Co. (See N. Y. City)
*†§Wyckoff, Seamans & Benedict (Typewriters). (See New York)
IRVINGTON—*†Lord & Burnham Co. (Horticultural Builders & Greenhouse Heating Apparatus). (See New York City)
ITHACA—*Champaign Bros.
*†§Godfrey & Son
*Ithaca Gun Co. (Guns & Typewriters)
*†§Lang, J. B. Engine Works
*†§Morse Chain Co. (Power Transmission Appliances, etc.)
*†§Williams Bros. (Well Drilling Machinery & Agr. Implt. Castings)
JAMESTOWN—*Anderson Bros. (Machinists)
§Art Metal Construction Co.
*Blackstone Mfg. Co. (Corn Planters, Washing Machines, etc.)
*Crescent Tool Co. (Special Machinery, Tools, etc.)
*§Eagle Fdry. & Mach. Co. (Fdrs. & Machinists)
*Gurney Ball Bearing Co.
*Ilgorth, Wm. & Co. (Wrenches, etc.)
*Huntington-Barger Machine Co. (Gas Engines, etc.)
*†§Jamestown Iron Works Co.
*Maddox Machine Co. (Woodworking Machinery)
*†§Maher, Patrick (Machinist & Fdry.)
*Moore Bros. (Files, etc.)
*Phillips Barrel & Machine Co. (Barrel Machinery)
*Rushworth & Son (Machinists)
*§Weber-Knapp Co. (Hardware Specialties, Brass Castings, etc.)
JAMESVILLE—*Jamesville Mfg. Co. (Auto Parts, etc.)
JOHNSTOWN—*Camm, Geo. E.
*Gustin, M. & Son (Glove Dies etc.)
*†Travis & Oczko
KINGSTON—*Browne, W. G. Mfg. Co. (Hardware Specialties, etc.)
*Hoysradt & Case (Machinery)
*King, A. R. Mfg. Co. (Machy., Tools, etc.)
*†Lawton, Wm. F. (Fdry. & Machinist)
*†Millard, Jas. & Son (Brick Machy. &
*Rice Machine Works Castings)
*Universal Road Machinery Co. (Road Making Machinery)
lizing Machy.)
LANCASTER—*† American Malleables Co.
*Lancaster Machine & Knife Works (Bit Braces, Machine & Knife, etc.)
LEONARDSVILLE — *†Babcock Mfg. Co. (Agricultural Implements)
LE ROY—*†§Le Roy Plow Co. (Plows, etc.)
LESTERSHIRE—*†Heath, W. A. Machine Co.
†Sweet Bros. (Woodworking Machy.)
*Wilbur, Fred. H. & Son
LIMA—*Bailey Engine Co. (Bottle Washing Machines, etc.)
LITTLE FALLS—*†Burrell, D. H. & Co. (Dairy Mach'y)
*Cheney, Henry Hammer Co. (Hammers, Tools, etc.)
*†Reddy's, M. Sons (Castings, etc.)
*Snyder, Homer P. Mfg. Co. (Knit. Mach'y)
*Stafford & Holt (Knitting Mach'y)
LOCKPORT—*†§American District Steam Co. (Steam Traps, Regulators, Valves, etc.)
*†Boston & Lockport Block Co. (See Ros-
†Drew Steel Foundry ton, Mass.)
†Dussault Foundry Works
§Electric Smelting & Aluminum Co.
†Gardner Foundry Co.
†Harris Foundry Co.
*§Holly-Carlos Co.
*Kolb, Edw. (Machine Work)
*†§McKim Foundry & Machine Co.
*†Merritt Mfg. Co. (Wood Working Machy)
*Murlehoff Mfg. Co.
*Nolan, Wm. (Machinist)
*†Oliver Bros. Co. (Iron & Brass Bedsteads, etc.)
*†Richmond Mfg. Co. (Flour Mill Mach'y)
*Trevor Mfg. Co. (Shingle, Heading, Staves, Handle & Wood Pulp Machy.)
*Ward & McLean (Looping Mach'y)
*Western Block Co. (Tackle Blocks, etc.)
LOWVILLE—*†§Fulton Machine & Vise Co. (Power Pumps, Vises, etc.)
LYNDONVILLE—*†Gray, John C. & Co.
LYONS—*†Berns & Schlee.
*Nagley Mfg. Co. (Tobacco Planters' Machy., etc.)
MALONE—*†§Hinds, Thos. (Stone Polishing & Stone Sawing Mach'y & Castings)
MAMARONECK—*†National Machine Co. (Sewing Machines)
MANLIUS—*†Cheney, S. & Son (Iron Fdrs.
*†§Scoville, E. U. Stable Fixtures, etc.)
MARATHON—*†Livingston, Jas. (Machinist & Fdry.)
MASSENA—*†§Raquette Fdry. & Supply Co. (Brass & Grey Iron Castings, Machine Work & Hydraulic Presses, etc.)
MASSENA SPRINGS—*Balch, F. (Machinist)
MATTEAWAN—*†Green Fuel Economizer Co. (Fuel Economizers, Blowers, etc.)
MECHANICSVILLE — *§Consolidated Casting Co. (Brass Fdrs. & Finishers)
†Eckerson Bedding Co. (Beds)
MEDINA—*†§Bignall Co. (Sinks, Pumps, Plumbers' Supplies, etc.)
*§Central Foundry Co. (See New York City)
†Medina Foundry Co. (Soil Pipe & Fittings)
*Medina Stamping & Machine Co.
*†§Swett, A. L. Iron Works (Grey Iron Castings, Plumbers' Castings, Door Hangers, etc.)
MELLENVILLE—†Smith, Webster
MERIDIAN—†Everts Mfg. Co. (Plows, etc.)
MIDDLEPORT—*Lewis, . J. (Canning Machinery)
*Niagara Sprayer Co. (Spraying Machines)
†Sherwood, A. G. (Iron Fdry.)
MIDDLETOWN—*Clemson Bros. (Saws, etc.)
*†Coleman, Galen (Castings All Kinds, General Machy., etc.)
†§Martin, Jas. G. (Castings of Every Description)
*Morgans & Wilcox Mfg. Co. (Printing Machinery)
*National Saw Co. (Saws, etc.)
MONROE—*†Newbury Mfg. Co. (Castings & Steam Fittings, etc.)
MONTOUR FALLS—*†SHEPARD ELECtric Crane & Hoist Co. (Electric Cranes & Hoists, etc.) (See adv. index, end of book)
MORAVIA—† Cady, Geo. E. & Co. (Fdrs.)
MOUNT MORRIS—*Empire Machine Works (Wood Working Machy.)
*†Genesee Valley Mfg. Co. (Grain Drills, Harrows, Corn Shellers, etc.)
MOUNT UPTON—*Willey, Leroy
MOUNT VERNON—*Ams, Max, Machine Co. (Can Makers' Machinery, etc.)
*†HENRY-BONNARD BRONZE CO. (Arch'l & Ornamental Iron Work & Castings) (See adv. index, end of book)
§Mauser Mfg. Co. (Also Silver)
MUNNSVILLE—*†Munnsville Plow Co. (Plows, etc.)
NAPANOCH—Pillsbury, M. M. (Edge Tools, etc.)
NEWARK—†Hamer, T. L. (Castings & Plows)
NEWARK VALLEY—*†Kemp, J. S. Mfg. Co. (See International Harvester Co., Chicago, Ill.
NEWBURGH—*†§ABENDROTH & ROOT Mfg. Co. (Grey Iron & Brass Castings, Water Tube Boilers, etc.) (See adv. index, end of book)
*Chadbourne & Coldwell Mfg. Co. (Lawn Mowers)
*Coldwell Lawn Mower Co. (Lawn Mowers, etc.)
Rock & Ore Crushers, Sluice Gates & Iron & Brass Castings, etc.)
§Kimball's, S. G. Son (Brass Fdr.)
*Lackawanna Mfg. Co. (Gasoline Engines)
*†§Marvel, T. S. Shipbuilding Co. (Ship & Engine Builders, Iron & Brass Castings, Marine Railways, etc.)
*†§Newburgh Ice Machine & Engine Co. (Corliss Engines, Ice & Refrigerating Machines & Iron & Brass Castings)
Ross Radiator Co. (Radiators, etc.)
*†Turl's, John Sons (Sugar Machy., etc.)
NEW HAMBURG—*†Stuart, R. J. & T. H. (Compression Wedge Couplings, Castings, etc.)
NEW LISBON—* George, M & R. L. (Steam Engines, etc.)
NEW ROCHELLE—*Vogel, R. & Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—†§Acme Foundry Co. 280 N Henry
*Acton, Jno. (Machinist), 118 John
*Adair Machine Co., 25 Fulton
*Adriance Machine Works, 254 Van Brunt
*Ambrose Machine Co. (Machinists, Metallic Packings, etc.), Eagle cor Provost
*American Air Compressor Works, Van Brunt & Summit
*American Brass Fixture Works (Brass Goods, Railings, etc.), 66 Greenpoint av
†American Casting Co., 56 Pearl
*†American Machine & Foundry Co. (Iron Fdrs. & Machinists), 346 Carroll
*American Numbering Machine Co., 291 Essex
*American Roller Bearing Fifth Wheel Co., 745 3d av
*American Stopper Co. (Bottlers Mach'y), 19 Verona
*Atlantic Basin Iron Works, 18 Summit
*Atlantic Iron Works, 365 Lorimer
§Atlas Brass Foundry, 112 Greenpoint av
*†Auer, Jno., Jr., 201 Middleton
*Ball, Geo. M. & Son (Gears, Machinery, etc.), 56 Greenpoint av
*Ball & Jewell (Machinists), 26 Franklin
*†Bay Ridge Iron Works, 5610 2nd av
*BEACH - RUSS CO. (Vacuum Pumps & Pressure Blowers, etc.), 59 Greene. (See adv. index, end of book)
*Beekmann & Tegtmeyer, 56 High
*Berger Machine Works, 166 Fourth av
*Bergstrom & Bass (Engrs. & Machinists), 158 2nd av
†Binney-Godfrey (Iron Fdrs., etc.), Kent av
*Blattner, Fred'k (Machinist & Millwright), 223 Maujer
*†BLISS, E. W. CO. (Sheet Metal & Plate Machy., Gears, etc.), 117 Adams (See adv. index, end of book)
*Bowne St. Machine Works, 30 Rapelye
*§Brass Goods Mfg. Co. (Brass Goods, etc.) 280 Nevins
*Briggs Engineering Co., ft 24th
*Brooklyn Brass Refinishing Co. (Brass Finishers), 68 Greenpoint av
§Brooklyn Brass Wks. & Fdry. (Plumbers' Brass Goods, etc.), 263 Scholes
†§Brooklyn Foundry Co. (Inc.) (Iron & Bronze Founders), Calyer
†§Brooklyn Navy Yard, Sands st
*†Brooklyn Vault Light Co. (Vault Light, etc.), Norman av & N Henry
*†§Brown & Patterson, 33 Marcy av
§Bullock, Jas. H., 30 Franklin
*Burr, John T. & Son (Machine Tools etc.), 429 Kent av
†Burr & Houston Co. (Iron Fdrs., Electrical Work, Light Castings & Specialty), 84 Calyer
*Cameron Engineering Co. (Overhead Tramways, etc.), 156 Berriman
*Campbell, Jas. F. & Son (Files, etc.), 13 Front
*CAMERON MACHINE CO. (Cloth Cutting Machinery, etc.), 61 Poplar. (See adv. index, end of book)
†Chevalier Bros., 84 Quay
*Christoffel's, A. Sons (Tube Cleaners, etc.), 277 Eldert
*Collins, E. R. Machine Co., 430 Kent av
*Columbia Engineering Works (Inc.), Long Lock
*†§Columbia Machine Works & Malleable Iron Co. (Electric Railway Appliances & Malleable Iron & Brass Fdry.), 269 Chestnut
*†Continental Iron Works (Corrugated Furnaces & Gas Works Apparatus, etc.), Calyer & West
§Coyne & Delaney (Brass Fdrs., Plumbers' Specialties, etc.), 832 Kent av
†Craig Foundry Co., 42 Sanford
*†Creamer, W. G. & Co., Smith & Creamer
*CROWELL, J. GILMER (Blowers, Pumps, Air Compressors, etc.), 296 Taafe pl. (See adv. index, end of book)
*Currie, J. B. & Son, 72 Adams
*Daly Laundry Machy. Works, 337 Butler
†Daly, John E. & Co., 53 Dobin
*Davidson, M. T. Co. (Steam Pumps, etc.), 43 Keap
*Deverall Perfection Mfg. Co. (Brass Specialties, etc.), 10 Johnson pl
*Dillmeier Brass Works (Brass Finishers), 300 Penn
*§Doehler Die Casting Co. (Die Castings, etc.)
*Doig, Wm. S. (Est. of) (Box Nailing Machy.), 54 Franklin
†Duffus, Wm. M., 719 Kent av
*Dugro, Philip, 132 Ten Eyck
†Durinick & Krazchy, 275 Oakland
*§Durst, Wm. (Brass Fdr. & Finisher), 4 Water
†Eagle Iron Works (Inc.), 850 De Kalb

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*Eggers, Wm. J. (Rubber Molds, etc.), 339 Classon av
*Electrose Mfg. Co. (R. R. Supplies), 127 N 10th
*Ellsworth, S. P. Co., 430 Kent av
*Elsesser, Michl., ft Court
*Emmerich, Fred'k, 365 Flushing av
*Empire Machine Works, Berry
*Erie Basin Iron Works, 54 Beard
*Faas, Chas. R. (Tool Maker), 34 S 6th
*Fanning, Josephine P., 678 Jefferson av
*§Fisher, A. B. Co., 635 Kent av
*Fogarty, M. J. (Machinists), 38 Harrison
*Foster Pump Works, 36 Bridge
*Fox, Arthur W., 83 Schermerhorn
*Franklin Machine & Steam Boiler Works (Inc.) (Machinists, etc.), 13 Franklin
*Fulton Engine Co., 35 Gold
*†Fulton Foundry & Machine Co. (Machinists & Iron Fdrs.), 25 Furman
*§Gates, Peace & Co. (Gas Fixtures), 665 Manhattan av
*General Insulate & Machine Co. (Dies, Tools, etc.), 1008 Atlantic av
*Gill, P. H. & Sons Forge & Machine Works (Forgings, Grain Elevators, Power Transmitting Machinery, etc.), 2
*Good, John, 1085 Atlantic av Lorraine
*§Graf, Jos. (Brass Finisher), 886 Park av
*Graphoil Lubricator Co., 61 Clymer
*Greene Mfg. Co. (Kindling Wood Mach'y), 300 Oakland
*†Gulld & Garrison (Pumping & Sugar Machy., etc.), 255 Kent av
*Hall, Thomas, 255 39th
*Hall & Hurlburt, 2928 W 8th
†Halloran, Thos. (Iron Fdry.), 884 Met av
§Hamilton, Robt. & Sons, 85 Adams
*Hamilton, Wm. R. (Engrs. & Machinists), 1
*Hamann, Chas., 24 Quincy 226 Hall
*Hartley, James (Engineer & Machinist), 75 Delevan
*Hay-Budden Mfg. Co. (Forgings, Anvils), 254 N Henry
*†§Hecla Iron Works (Brass, Bronze & Iron Founders, Iron Bronze & Brass Work & Builders' Iron, Brass & Bronze Work), 118 N 11th
*Henry Engineering Co., ft 27th
*Hibbard, W. H. Mfg. Co. (Power Presses, Shears, etc.), 79 Washington
*Hicks Speed Indicator Co. (Speed Indicators, etc.), 1263 Atlantic av
*Hoen, Jos. (Tablet Binding Machines), 65 Met av
†§Holdsworth, Wm. H. & Son (Brass & Iron Castings), 454 Rodney
*Holland, Frank, 679 Lorimer
*Hoole Machine & Engraving Works (Book Binders' Machinery), 29 Prospect
*Houchin-Aiken Co. (Candle & Soapmakers' Machinery, etc.), 35 53d
*Hubbard's, Norman, Sons (Vacuum Pump & Veneer Sawing Machines, 265 Water
*Huber Machy. Co. (Soap Machy.), 261 46th
§Huethwohl, Louis, Jr., 513 Flushing av
*Ideal Machine Works, 257 39th
*International Postal Supply Co., 353 Jay
§Jefferson Brass Foundry (A. Willerth, Prop.), 209 King
*Johnson, August, 18 Dunham pl
*Jones, Whitfield E. (Special Machy.), 14
*Judge, Harry W., 59 Prospect Water
*Kane, D. C., 83 4th
†Kasper & Koetzle, 565 Bushwick av
*Kelting, Albert J. (Machinist & Engineer), 459 Carroll
*Kent Machine Works, 39 Gold
†Kings County Iron Foundry Co. (Sash Weights, etc.), N 13th & Berry
*†Krajewski-Pesant Co. (Sugar Machy., etc.), 54 Beard
*Krantz, H. Mfg. Co. (Electric Instruments), 160 7th
*Kriser, Chas., 311 Kingsland av
*Larsen Machine Co. (Boot & Shoe), 100 Covert
†§Lefferts, Chas. A. & Co., 109 2d av
*Leffler, Chas. & Co. (Inc.) (Presses, Dies & Tools for Sheet Metal & Paper, etc.), 49 Clymer
*Lehmann & Schaefer, 321 Palmetto
†Lewis & Egginton, N 13th & Berry
*†§Lidgerwood Mfg. Co., ft. of Dikeman (See New York)
§Lieb Brass Foundry, 84 Carlton av
*Lispenard & Clark (Machy. & Tools), 265 Wyckoff
*†Logan Iron Works (Mfrs. & Contractors, Oil & Gas Works Complete), 42 Commercial
§Loughran, Michael F., 82 Wyckoff av
*McAdams, Jno. & Sons (Paging & Ruling Machines), 978 Kent av
*McGregor, Jno. (Electric Brass Finiser), 146 Suydam
*McLeer Electirc & Mfg. Co. (Electrical Re-Works, etc.), 264 36th
*McMurray, Robt. T. & Bro., 365 Harman
*Mack Bros. Motor Car Co. (Motor Trucks, Cars, etc.), 532 Atlantic av
*Marresford, Wm. F. (Wallpaper & Bookbinders' Machy.), 56 Pearl
*May, Jacob Iron Works, 850 DeKalb av
†May, John (Iron Fdry.), 260 Monitor
*Mellish, Chas. (Brass Finisher), 870 Fulton
*†Mergenthaler Linotype Co. (Linotype Machines), 24 Ryerson
*MERRILL BROS. (Mfrs. of Turnbuckles, Drop Forgings, Vises, Presses, Drop Hammers, etc.), 465 Kent. (See Maspeth, Boro. of Queens, New York.) (See adv. index, end of book)
*Metal Specialty Mfg. Co., 125 Patchen
†§Metcalf, Saml. (Brass & Iron Fdry.), 25 Seabring
†Metropolitan Iron Foundry, 884 Metropolitan av
*Miller, Wm. P. Co. (Bailing Presses), 224 Green
*§Mills, Wm. J. (Brass & Bronze Fdrs. & Machinists), 639 Kent av
*Morse Dry Dock & Repair Co. (Marine Works), ft. 56th
*Mulstein, Jno. Co. (Tools), 211 3d av
*Murcott & Campbell (Files), 296 Union av
*§Murray, John A. (Brass Finisher), 112 Front
*Nassau Iron Works, 71 Wallabout
*†National Foundry Co. (Cast Iron Soil Pipe & Machy. Castings), 12 Sanford
*NATIONAL GAUGE CO. (Gauges, Valves, Cocks, etc.), 168 8th. (See adv. index, end of book)
*§National Meter Co., 42d & 1st av. (See New York)
*Nebel, Martin A. (Cement, Paint Grinding Mach'y., etc.), 74 Grand av
*Newman & Tax (Brass Finishers), 68 Greenpoint av
*New York Gear Works, 56 Greenpoint av
§Nichols Gas Fixture Mfg. Co. (Gas Fixtures), 1100 Myrtle av
*Nicoll's, Wm. Sons (Brass Finishers), 349 Adams
†Nylund, Gustaf E., 971 Grand
*Oakley & Keating (Laundry Machy.), 673 Manhattan av
*Oldham, Joshua & Sons (Saws), 112 26th
*Olsen, Andrew (Machinist & Boiler Maker), 39 Union
*Parkes Machine Co. (Sewing Machines, etc.), 290 Taaffe pl
§Paulson, Thos., 13 Fulton
†Peterson Bros., 5203 4th av
*Phelan, Jos. E. (Brass Finisher), 429 Kent av
*Piel, Bernard F. (Inc.) (Millwright, Engineer & Machinist), 56 Humboldt
*Pioneer Iron Works (Asphalt, Paper Taring Sugar Machinery, etc.), 149 Pioneer
*†Pirkl, John Iron Works (Inc.), 240 N 10th
*Pollard, Jos. G. (Tools), 141 Raymond
*Potdevin Machine Co., 253 36th
*Pringle, Thos. G. (Machinist), Clay
*Reeve, Henry E. (Mechl. Engr. & Machinist), 459 Carroll
*§Rein, R. W. (Plumbers' Supplies, etc.), 272 Kent av
*Reinhardt & Co., 72 Stagg
*Renton, Geo. W. (Brass Finisher), 26 Johnson av
*Reynolds, Martin Co. (Brass Finishers), 70 Richardson
*†§Riley, John J. Co. (Iron & Brass Foundry), Van Brunt & Summit
*Riley Machine Works, 192 24th
*Robertson, John & Co. (Lead Pipe Mach'y.), 133 Water
*§Roman Bronze Works (Bronze Castings only), 275 Greene
*†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings), 51 Boerum pl
*Roovers Bros. (Embossing Presses, etc.), 100 Schermerhorn
*†Ross, Chas. & Son Co. (Paint Grinding & Mixing Machy.), 146 Classon av
*Rotary File & Machine Co. (Saw Sharpening Machines, Pinking Machines, etc.), 200 Diamond
*Rotary Composing Machine Co., 56 Pearl
*†Roy Engineering & Iron Works, 17 Bay
*Saladin, Louis A. & Co., 1143 DeKalb av
SCHAEFFER & BUDENBERG Mfg. Co. (Steam Specialties), 481 DeKalb av. (See adv. index, end of book)
*§Shapiro & Aronson (Gas Fixtures), 24 Morton
†Simpson Foundry Co., 30 Rodney
*Simpson, Jas. S. (Est. of) (Grinding Mills, etc.), 26 Rodney
*Sittmann & Suren Mfg. Co., 103 Liberty
§Smith & Loughlin (Iron Fdrs.), Driggs av & N 5th
§Smith, Wm. A., 112 Greenpoint av
*§Staats, Geo. & Co. (Brass Founders & Finishers), 252 Lorimer
§Standard Water Meter Co. (Water Meters, etc.), Roberts & Main
*Sterling Brass Polishing Co. (Brass Finishers), 30 Boerum
*Stimpson, Edwin B. & Co., 797 Kent av
*§Sweeny, W. H. Mfg. Co. (Brassware, etc.), 30 Main
*†Taylor & Co. (Machine Molded Castings, etc.), Morgan & Norman avs
*Terry & Williamson, 89 Sedgwick
*Thompson-Bonney Co. (Electrical Specialties), 45 York
*Thomson Meter Co. (Water Meters), 10
*Tickle, Arthur, 21 Dlavan Bridge
§Tighe, Jno. J., 150 25th
§Tortora, Chas., 99 Frost
*Townsend & Moore Engineering Co., Pier 2, Erie Basin
*†§Tuttle-Bailey Mfg. Co., 79 N 10th. (See New York)
§U. S. McAdamite Metal Co., 18 Rapelye
*Unitype Co. (Typesetting Machines), 150 Sands
†Universal Iron Foundry (Iron Fdry), 283 Scholes
*Vierengel, Matthew (Machinist), 32 S 6th
*Victor Motor Co., 56 Kingsland av
*Vosburgh, W. C. Mfg. Co. (Gas Fixtures, etc.), 93 Underhill av
*Ward, Geo. H. & Co. (Steam, Hydraulic, Electric & Refrigerating Plants, for Marine Purposes, Engine Repairing, etc.), 78 Delevan
*Warp Twisting-In Machine Co., 260 Van Brunt
*Weisbecker, Francis A & Sons (Polishing Machines, etc.), 22 Frost
*Weiss, Louis T. (Machinist), 286 Taaffe
*Wenstrom, Jno. & Sons, 227 Flatbush av
*Wesel, F. Mfg. Co. (Printers' Machy), 70 Cranberry
*Whale Creek Iron Works, Calyer nr Whale Creek Canal
*†White, J. H. Mfg. Co. (Gas & Electric Light Fixture Parts & Trimmings), 111 N 3d
*Wilson Magnus Co., 411 Van Brunt
*Wischerth Mfg. Co., 302 McDougal
*Wittemann Bros. (Bottlers' Machy. & Supplies, etc.), 41 Ferris
*Wright, Jas. K., 200 Huntington
*†Wurster, F. W. & Co. (Wagon Axles, etc.)
†Youdelman-Walsh Fdry. Co., Provost & Eagle
*Younkman, Lowerator Co. (Conveying), 631 Kent av

## Boroughs of Manhattan & Bronx.

NEW YORK—*Abele, Christian (Machinists' & Millwright), 537 W 50th
*†Abendroth Bros. (Stoves, Furnaces, Cast Iron Pipe, etc.), 109 Beekman. Works: Port Chester, N. Y.
*§Acme Brass Works (Brass Finishers, etc.), 147 Baxter
*Acme Engineering & Mach. Works, 210 Canal
†Ahr, Henry, Iron Works, 444 E. 148th
§Allan, Andrew & Son (Brass Fdrs.), 486 Greenwich
*Allen, Jno. F. Co., 370 Gerard av
*Allman Gas Engine & Machine Co. (Gas Engines, Ice Breakers, etc.), 461 Canal
§Allyne Brass Fdry. Co., 45 B'way
*†American Bridge Co.
*†§American Car & Foundry Co., 165 B'way
*†American Locomotive Co. (Locomotives), 30 Church
*American Meter Co. (Gas Meters & Appliances), 11th av & 47th
*American Process Co. (Drying Machinery), 68 William
*†American Smelting & Refining Co., 165 Broadway
*American Wringer Co., 99 Chambers; Works: Auburn, N. Y.

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*American Writing Machine Co. (Typewriters), 343 B'way
*Andrews, Phalon & Co. (Marine Engines & Repairs, etc.), 628 W 24th
*Arthur Co. (General Machine Works), 188 Front
*Atlas Stamping & Flexible Tube Co. (Special Machy.), 554 W 25th
*Aue, Ferdinand, 420 E 62nd
*Automatic Switch Co. (Electric Devices), 131 Liberty
*Automatic Vending Co. (Automatic Machines), 240 W 23d
*Autopress Co. (Printing Presses), 299 B'way
*Ayer's, Jno. W. & Son, 88 Walker
*Aylward Bros., 161 Washn
*†Babcock & Wilcox Co. (Water Tube Boilers & Castings), 85 Liberty; Works: Bayonne, N. J.; Barberton, O., & Mansfield, O.
*Baker, Wm. C. Htg. & S. Co. (Car Heating, etc.), 143 Liberty
*Bassemir, John & Son (Brass Finishers), 125 Worth
*Bates Machine Co. (Numbering Machines, etc.), 346 B'way
*Bay, Gottfried (Millwright), 537 W 50th
*§Bay State Brass Co. (Plumbers' Brass Goods), 43 Cedar. Works: Haydenville, Mass.
*Bayer, Gardner & Himes Co. (Cabinet Hardware, etc.), 157 W 29th
*Belding & Franklin Machine Co., 145 E 42nd
*Bell Electric Motor Co. (Electric Motors), 30 Church. Works: Garwood, N. J.
*Bender, Ph. J. & Sons (Machinists, Presses, Dies, Tools & Special Machinery), 87 Frankfort
§Benner, Jacob, 3172 Park av
*Benton Mfg. Co. (Registering Machines, etc.), 9 Bethune
*Berggren & Pearson Machine Co. (Model & Experimental Work, Fine Machinery & Tools), 221 Canal
§Bernstein, Jacob, 321 3rd av
*Blair, Wm. G. (Machinist), 24 West
*Boettcher, Ludwig, 208 E 19th
*Bogue, Chas. J. Electric Co. (Dynamos & Motors), 515 W 29th
*Borenstein & Strulson, 561 W B'way
*Boyce, Myron J. (Dies, etc.), 584 Hudson
*†Boynton Furnace Co. (Hot Air Furnaces, etc.), 207 Water; Works: Jersey City, N. J.
*Braun, Jacob J., 34 Reade
*Brewers' Special Machy. Co., 1805 1st av
*Brewster Engineering Co. (Blowers, Exhausters, Air Compressors, etc.), 50 Church. Works: Hoboken, N. J.
*†§BROWN, A. & F. CO. (Power & Rope Transmitting Machinery, Hangers, Pulleys, etc.), 172 Fulton. Works: Elizabethport, N. J. (See adv. index, end of book)
*Brown, Herman, 30 W 18th
*Buckenberger, Peter N., 9 Watts
*Bulasky, Louis (Hat Mach'y., etc.), 42 E Houston
*Burns, Jabez & Sons (Coffee Roasting Machinery, etc.), 600 W 43d
*†§CAMERON, A. S. STEAM PUMP Works (Steam Pumps, etc.), 433 E 23d. (See adv. index, end of book)
*Campbell Printing Press & Mfg. Co. (Printing Presses, etc.), 1 Madison av
*Campbell & Co., 300 E 64th
*§Casidy & Son Mfg. Co. (Gas Fixtures), 133 W 23d
*§Cassidy & Son Mfg. Co. (Gas Fixtures), 133 W. 23d
*Cavagnaro, John J. (Macaroni, Wire Weaving & Watch Case Machinery, etc.), 255 Centre
*†Central Foundry Co. (Cast Iron Pipe & Plumbers' Cast Iron Goods, etc.), 90 West
†Central Iron Works (Iron Fdrs.), 420 E 48th
*Central Mfg. Co. Brass Works, 244 E 52d
*†Central Radiator Co. (Radiators), 116 Nassau. Works, Lansdale, Pa.
*Cevasco, Cavagnaro & Ambrette, 180 Centre
*Chattillion, John & Sons (Hardware Specialties, Scales, etc.), 85 Cliff
†Chevalier Bros., 120 Front. (Foundry, Brooklyn)
§City Fire Dept., 12th av & 56th
§Claudat, Frank & Son (Brass & Bronze Fdrs), 424 E 23d
*Collins, Jno. E. (Millwright), 50 Church
*Columbia Typewriter Mfg. Co. (Typewriters), 62 Reade. Works, 37 W 116th
*Condon, Thos. F. & Co. (Soap Machinery), 50 Church
*Connelly Iron Sponge & Governor Co., 127 Duane
*†Consolidated Car Heating Co. (Car Heaters, etc.)
*Cook, Thos W. G. (Metal Goods Presses), 6 Reade
*Corcoran, A. J. (Inc.), 11 John
*§Cory, Chas. & Son (Brass Finishers), 286 Spring
*†Cottrell, C. B. & Sons Co., 25 Madison sq, N. Works, Westerly, R. I.
*Craddock, Edw. S., 79 E 130th
*†Crane, Wm. M. Co. (Stoves, Grey Iron Castings, etc.), 16 W 32d. Works: Peekskill, N. Y.
§Cunningham, Wm. J., 671 Water
*Curtis, Chas. L. (Machinist), 199 Grand
*Dale Co. (Electric Fixtures, etc.), 9th av
*Danishewsky, Max, 320 Canal & 13th
*†Deeley, Robt. & Co. (Sugar Machy, etc.), 541 W 32d
*Defiance Button Machine Co., 53 E 8th
*De Laval Separator Co. (Ceramery Machinery), 165 B'way
*De La Vergne Machine Co. (Ice Machines & Gas & Oil Engines, etc.), 138th & Locust av
*†Dempsey, Michael J., 548 W 55th
†DENVER ROCK DRILL & MAchinery Co. (Rock Drills, etc.), B'way & Cedar. (See adv. index, end of book)
*Dilg Mfg. & Trading Co. (Ice Breakers, Cutlery, Renovating & Polishing Machines, etc.), 401 E 163d
†Dimond, Thos., 43 W 34th
*Donnelly, Blanthorn & Co., 526 W 28th
*Dorman, Jno. H. (Tapping Attachments, etc.), 1 Bethune
*Dowdall, Chas. E. (Elevators), 152 W B'way
*Drescher, Louis (Machinist), 207 Centre
*Dressler, Chas. E. (Special Machy.), 388 2nd av
†Drummond, M. J. & Co. (Cast Iron Pipe, etc.), 182 B'way. Works: Reading, Pa., & Lynchburg, Va.
*§Dubois, F. N. & Co. (Plumbers' Brass Goods, etc.), 247 9th av
*DUDGEON, RICHARD (Hydraulic Jacks, Tube Expanders, Presses & Steam Hammers), 24 Columbia. (See adv. index, end of book)
*Duff & Son, 175 Grand
*Dunne, Michael F. (Engineer & Machinist), 223 West
*Durbrow & Hearne Mfg. Co. (Duplicate Parts, Machinery, etc.), 12 Wooster
*§East River Engineering Co., 89 South
*Ecaubert, Fred'k (Machinist), 18 Rose
*Edwards & Co. (Electric Appliances), Exterior & 140th
*§Edwards, Jos. & Co. (Bridge Operating, Dredging, Irrigating, Pumping Machy, etc.), 414 Water
*Eichel, Jas., 381 Broome
*Elliott-Fisher Co. (Book Typewriters, Billing Machines, etc.), 366 B'way
*Elterich, Chas., 177 Grand
§Empire Brass & Metal Works, 290 B'way
§Empire Brass & Metal Works, 290 B'way
*Engelman, Julius R., 160 William
*§Enos Co. (Gas & Elec. Fixtures), 7th av & 16th
*Erlandsen, Julius (Mattress Machinery, etc.), 172 Centre
*Ermold, Edward, 652 Hudson
*Errington, Franklin A. (Machine Tools), 39 Cortlandt
§Eureka Brass Foundry, 518 W 22nd
*Eustace, Edw. C., 54 Centre
*Fisher & Pagan, 24 Gold
*†§Fiske, J. W., Iron Works (Iron & Bronze Fdrs.), 56 Park pl
*Ford, Thos. P. Co. (Steam Specialties), 407 Broome
*†§Fox's, Benj. Sons (Brass & Iron Fdrs. & Machinists), 513 W 34th
*Frooks, N. Engine Co., 225 Christie
*†Fuchs & Lang Mfg. Co. (Lithographers' Supplies), 29 Warren. Foundry, Rutherford, N. J.
*Fuller, E. C. Co. (Bookbinders' Mach'y.), 28 Reade
*§Funk Machine Co. (Pressure Blowers & Paper Feeding & Ruling Machines), 23 City Hall pl
*Fyfe, Alex. C. (Machinist), 641 W 42d
*Gaertner, Gustav G., 174 E 82nd
§Gallagher's, James Sons (Brass Fdrs.), 87 Centre
*Gardam, Wm. & Son (Inc.) (Drilling Machinery, Taps, Dies, etc.), 80 Park pl
*Gardiner & Burton, 437 Pearl
*Gartelmann, Herman & Co., 246 Canal
*Garvin Machine Co. (Machine Tools, etc.), 137 Varick
*Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights
§General Machine Co., 417 E 156th
§Gillen, J. F. & Son, 124 Baxter
*Gitzendanner, Paul, 10 Vandewater
*Glasgow Iron Works & Supply Co., 26 West
*Goat & Hibbs (Machinists), 2 Reade
*Gould Coupler Co. (Car Couplers, Steel & Malleable Iron Castings, etc.), 347 5th av
Works, Depew, N. Y.
*§Gould, Mersereau Co. (Brass Fdrs. & Finishers), 43 E 19th
*Grabo, E. O. (Brass Working Machinery), 180 Centre
*†Graff Furnace Co. (Stoves, Furnaces, etc.), 208 Water
*Graham Bros. Co., 662 Hudson
§Gramercy Brass & Iron Works (Iron & Brass Fdrs.), 206 E 19th
*Grand Mach. & Button Co., 177 Grand
*Greenlie, Wyatt & Co. (Machinists), 499 Water
†Grinberg Bros. (Gas & Oil Stoves, etc.), 154 South
*†§GRISCOM-SPENCER CO. (Coppersmiths, Grey Iron, Brass, Bronze, Castings, Forgings, Tanks, Boilers, Machinery, etc.), 90 West. (See adv. index, end of book)
§Guerin, P. E. (Inc.) (Brass & Bronze Goods, etc.), 23 Jane
*Gullberg & Smith (Machinists), 478 Pearl
*Haase, G. J., 147 Baxter
*Hackenberger, Wm., 236 W 16th
*Haiss, Geo. Mfg. Co. (Coal Handling Machinery), Rider av & 141st
*†Hall Mfg. Co. (Engineers' Specialties), John & Cliff. Works & Foundry, Harrison, N. J.
*Hall Signal Co. (R. R. Signals, etc.), Broad Exch bldg. Works, Garwood, N. J.
*Hall's, Saml. Sons (Bolts & Wrenches, etc.), 229 W 10th
*Hammond Typewriter Co. (Typewriters), 69th & East River
*Hankin, John & Bro. (Heaters & Machinists), 550 W 25th
*†§Hardware & Woodenware Mfg. Co. (Brass, Bronze & Grey Iron Castings & Hardware, Toys, Specialties, etc.), 693 Broadway
§Harper, Thomas, 139 Lafayette
*Hart & Widder Co., 511 W 21st
*Hatch, F. E. Co. (Paper Box Machinery), 91 Thompson
§Heidenreich, Ernest, 173 Grand
*Hepworth, S. S. Co. (Sugar Machinery), 92 William
*Heyman, N. H. (Brewers' & Maltsters' Machinery), 438 E 59th
*Hill's, F. J. Sons, 6 Howard
*Himoff Machine Co., 128 Mott
*Hindle, Walter E. & Co., 11 Franklin
†Hinkle Iron Co. (Iron Fdrs.), 534 W 56th
*†Hitchings & Co. (Greenhouse Heating Apparatus & Bldrs.), 1170 B'way. Works, Jersey City, N. J.
*†§Hoe, Robert & Co. (Printing Presses, *Hoevet, Andrew T., 422 W 46th
*Holgan Bros., 9 Baxter
*Holub-Dusha Co. (Marble Hole Cutting Machinery, etc.), 1799 1st av
*Homan, J. & E., 378 W Broadway
§Hudson Brass Foundry, 97 Cliff
*Hummel, C., & Sons, 320 Pearl
*Hurd & Haggin (Special Machines, Models, Gasoline Engines, etc.), 310 Hudson
*Hvass, Chas. (Machinist & Street Sweeping Machines), 509 E 18th
§Hynes, Michael, 458 E 10th
*Ideal Automobile Mfg. Co., 125 Watts
*Ideal Opening Die Co. (Dies, Tools, etc.), 24 West
§Iden & Co. (Gas Fixtures), 42 University place
*Imco Mfg. Co. (Plumbers Brass Goods), 162 E 52d
*†Imperial Repair & Brazing Co., 134 W 49th
*†INGERSOLL-RAND CO. (Air Compressors, Rock Drills, Mining Machy. & Pneumatic Tools, etc.), 11 B'way. Works: Tarrytown, N. Y., & Phillipsburg, N. J. (See adv. index, end of book)
*†§INTERNATIONAL STEAM PUMP Co. (Steam Pumps, etc.), 115 Broadway. (See adv. index & branch offices, end of book)

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*†**JACKSON, WM. H. COMPANY,** 2-4-6 W 47th. (See adv. index, end of book)
*§Janusch Mfg. Co. (Fire Place Finishings. Brass Fdry. & Finisher), 481 E 140th
*†§**JEANESVILLE IRON WORKS** Co. (Steam Pumps, etc.), B'way & Cedar. (See adv. index, end of book)
*†Johnson, Isaac G. & Co. (Steel Castings & Specialties), Spuyten Duyvil
*Johnson & Crowley (Printers' Machinists). 182 Centre
*Jordan Bros. (Elec. Machy.), 74 Beekman
*Judelsohn, Oscar I., 36 E 8th
*Jungermann Bros., 240 W 27th
*†Kaplan, Kandra & Co., 438 E 77th
*Katzenstein, L. & Co., 338 West
*†§Keil, Francis & Son (Bldrs.' Hardware), 401 E 163d
*Kennelly, Jno. J., 806 11th av
*Kerwein & Rose, 207 Centre
*Keyes, Jas. A., 652 Hudson
*Kissinger, Jacob, 75 Fulton
*§Klaber, S. & Co. (Bronze Founders), 126 W 34th. Works: Carlstadt, N. J.
§Kleb, Geo., 143 Thompson
§Klein, Bernhard, 84 Ave D
*Klein, William, 67 W Houston
§Knickerbocker Foundry Co. (Brass Fdrs, etc.)
*Knickerbocker Machine Works, 8 Jones
*Koberlein, Fred'k, 508 W 24th
*Kretsch & Priester, 25 Bleecker
*Kroll Bros., 97 Essex
*Krom Machine Works (Mining Machinery), 170 B'way. Works: Plainfield, N. J.
*Krumberger & Vreeland (Gas Engines), 33 Sullivan
*†Lalance & Grosjean Mfg. Co. (Grey Iron Castings, All Consumed by the Company), 299 B'way
*Leiman Bros. (Jewelers' Machinery & Tools), 62 John
*Lemmey, T. W. B. (Machinist), 410 W 54th
†Lenox Iron Works, 1959 Park av
*Levering & Garrigues Co. (Steel Structural Work), 552 W 23d
§Levett, Walker M. Co. (Brass, Bronze & Composition Castings), 462 10th av
*Lewthwaite, Geo. A., 116 Walker
*Lewthwaite, T. H. (Punching & Shearing Machinery), 411 E 31st
*†**LIDGERWOOD MFG. CO. (Hoisting Engines, Coal & Ore Handling, Elevating & Conveying, Pile Driving Machy, etc.), 96 Liberty.** (See adv. index, end of book)
*†**Lord & Burnham Co. (Greenhouse Heating Apparatus & Builders, etc.), 1133 B'way. Works, Irvington, N. Y.**
*Love, Wm., 175 Grand
*Loyd, John Co. (Dies, etc.), 560 Water
*McCabe, Jas. J. (Machine Tools), 30 Church. Works, Jersey City, N. J.
*McCABE HANGER MFG. CO. (Door Hangers, Ball-Bearing Wheels. Dies, etc.), 425 W. 25th. (See adv. index, end of book)
§McCauley, Frank, 502 W. 25th
*§McCoy, J. B. & Son (Electric & Gas Fixtures), 114 W. 30th
*†McCrum-Howell Co., (Hot Air Furnaces, Radiators & Heating Apparatus, etc.), 103 Park av
*†McDougall & Potter Co. (Steam Hammers, Punching Machinery, etc.), 606 W 55th
*†McKiernan-Terry Drill Co. (Rock Drills & Air Compressors), 115 B'way. Works: Dover, N. J.
*†McLean, John (Fire Hydrants, Valves, etc.) 440 Water
*§McMann, T. R. Co. (Valves, Hydrants, etc.), 58 Gold
*†§McNab & Harlin Mfg. Co. (Iron & Brass Fdrs. & Finishers, Plumbing & Steam Specialties, etc.), 56 John. Works, Paterson, N. J.
*Macsorley Co., 44 Manhattan
*§Magnolia Metal Co. (Anti-Friction Metal, etc.), 115 Bank
§Magnus Metal Co., 111 B'way
*†Magor Car Co. (Industrial Cars, etc.), 50 Church, New York. Works: Passaic, N. J.
*§Manhattan Brass Co., 332 E 28th
*Manhattan Electrical Supply Co. (Electrical Supplies, Plumbers' Brass Goods, etc.), 17 Park Place. Works, Jersey City, N. J.
*Manhattan Repair & Supply Co., 619 W 129th
†Marcy Stove Repair Co. (Stove, Range & Heater Repairs), 74 Beekman
*§Marine Mfg. & Supply Co. (Ship Machy., etc.), 158 South
*§Martin, B. M. (Brass Fdry. & Finisher), 473 W B'way
*Mason & Moore, 30 E 4th
*§Mayor, Lane & Co. (Plumbers' Supplies), 128 White
§Melrose Brass Foundry, 3172 Park av
§Metropolitan Brass & Bronze Fdry. Co., 652 E 12th
*Mickley & Smith, 18 Thames
*†Mietz, August (Gas Engines, etc.), 12[illegible] Mott
*Miller, Henry, 384 E 144th
*†Millers Falls Co. (Machinists' Fine Tools & Hardware Specialties, etc.), 28 Warren. Works: Millers Falls, Mass.
*Mitchell Co., 621 W 24th
*§Mitchell, Vance & Co. (Gas & Electric Fixtures), 503 W 24th
*Montanini & Grilleo
*Mortensen-Treubert Co., 1945 Park av
*†§Mosher Water Tube Boiler Co. (Iron & Brass Castings, Water Tube Boilers, etc.), 30 Church. Works: Ossining, N. Y.
*Moss & Kendall, 550 W 25th
*†!Mott, J. L. Iron Works (Plumbers' Supplies, etc.), 118 5th av
*§Mullaneq's, Jas. Sons (Plumbers' Specialties, etc.), 141 E 25th
§Mullen, Daniel, 520 W 22nd
*Muller, Chas. A. (Machinist), 66 Centre
*Multicoll Co. (Condensers, Extractors, Heaters, etc.), 78 Broad
*†Murray Hill Iron Works Co. (Iron Fdrs.), 212 E 37th
*Nannen, Chas. B. & Son, 619 W 29th
*Nason Mfg. Co. (Machinists), 71 Beekman
*§Nathan Mfg. Co. (Steam Specialties. Brass Founders, etc.), 85 Liberty. Works, 416 E. 106th
§National Brass & Copper Co., 81 Fulton
*†National Enameling & Stamping Co. (Grey Iron Castings, All Consumed by the Company), 374 B'way
*National Meter Co. (Water Meters, Gas Engines, etc.), 84 Chambers
*Needham, A. W. (Special Machy., etc.), 110 E. 43d
§Nelson, Chas., 439 E 10th
*§Neptune Meter Co. (Water Meters), 90 West. Works, Long Island City, N. Y.
*NESTOR MFG. CO. (Inc.) (Dies, Special Machinery, etc.), 40 W 13th. (See adv. index, end of book)
*†New Jersey Zinc Co. (Iron Castings for the Use of the Company; also Machine Shop for Repairs), 55 Wall
*†New York Air Brake Co. (Air Brakes & R. R. Appliances), 165 Broadway
*§New York Brass Foundry Co. (Brass Fdrs.), 104 Centre
*NEW YORK CONTINENTAL Jewell Filtration Co. (Water Filters, etc.), 15 Broad. Works, Jersey City, N. J. (See adv. index, end of book)
*New York Die Co., 245 Centre
*New York Improved Meter Co. (Gas Meters, etc.), 306 E 47th
*New York Novelty Machine Works, 389 Broome
*New York Pattern Machine & Die Co., 442 Water
†Nichols, D. M., Iron Works, 2 Gouverneur sl
*Nielsen, Anton E., 78 Barclay
*†Niles-Bement-Pond Co. (Machine Tools, etc.), 111 B'way
*O'Day, P. H. & Son (Marine Works, etc.), 253 South
*O'Meara Valve Co. (Steam Goods), 82 Center. Works: Arlington, N. J.
*†§**OTIS ELEVATOR CO. (Electric & Hydraulic Elevators, etc.), 17 Battery pl. Works, Yonkers, N. Y.** (See adv. index, end of book)
*†§Patterson-Allen Eng'r'g Co. (Valves, etc.), 2 Rector. Works, Jersey City.
*Paul, Herman L., 159 E 128th
*Pedersen Mfg. Co. (Tools & Special Machy.), 636 1st av
*†**PELS, HENRY & CO. (Punching & Shearing Mach'y, etc.), West & Cedar. Works: Jersey City, N. J.** (See adv. index, end of book)
*Persky & Co. (Machinists), 51 Elizabeth
*Piel. G. Co., 363 Rider av
*Pollard-Alling Mfg. Co. (Addressing & Mailing Machines), 312 E 23d
*Post. Geo. E., 100 Centre
*Prentiss Vise Co. (Vises, etc.), 110 Lafayette
*Prince, J. A. (Textile & Paper Mach'y), 154 W 27th
*Prince Iron Works (Builders' Iron Work), 553 W 33rd
*Pryibil, P. (Est. of), 512 W 41st
*Quimby, Wm. E. (Pumping Machinery), 3 W 29th
*†Quintard Iron Works Co. (Iron Fdrs. & Machinists), 742 E 12th
*†Radley Steel Construction Co. (Iron Fdrs., Railings, Doors, Shutters, etc.), 624 E 19th
*Rail Joint Co. (Rail Joints, etc.), 185 Madison av. Works: Troy, N. Y.
*†Railway Steel Spring Co. (Railway Springs, Steel Tired Wheels, etc.), 32 Cortlandt
*Ramsater, Gustav (Machinist), 216 William
*Ramsaier, Wm. J., 10 Vandewater
*Rathbun & Co., 54 Vesey
*Rathbun & Bird Co. (Printers' & Bookbinders' Machy., etc.), 33 Gold
*Redfield, Robt. S. & Co. (Filter Presses, etc.), 90 West. Works: Elizabeth, N. J.
*†Reedy Elevator Co., 202 9th av. Works, Hoboken, N J
*Rees & Co. (Rider & Erickson Engines), 220 E 86th
*Reid, Alexander (Engineers & Machinists), 165 Charles
*Remacle, Leopold L., 210 Centre
*Remington Typewriter Co. (Typewriters), 327 Broadway. Works: Ilion, N. Y.
*Remington & Sherman (Safes, Vaults, etc.), 359 B'way
*Revolute Machine Co., 151 E 126th
*Ricardo, Geo., 22 Burling Slip
*Richardson, Morgan Co. (Furnaces. Heaters, etc.), 239 Water
*Richardson Scale Co. (Scales, etc.), 3 Park Row
*†Richardson & Boynton Co. (Stoves, Furnaces, Ranges, etc.), 31 W 31st. Works, Dover, N J
*†Rider-Ericsson Engine Co. (Hot Air Pumping Engines), 35 Warren
*Robertson & Walsh, 475 Canal
*Robinson, M. W. Co. (Tool Mfrs., etc.), 88 White. Works: Newark, N. J.
*Rockwell, L. A. (Bakers' Machy., etc.), 9 Elizabeth
*†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings), 54 Cliff
*Rosenfield Mfg. Co. (Coin Operating Machines), 587 Hudson
*Rosenthal, J. & Co., 169 W 18th
*Ruf, Herman, 93 Crosby
Ruhle, John H. (Looms). 517 W. 45th
*Sachnoff & Zakim (Die Makers), 178
*†Safety Car Heating & Lighting Co. (Car Heating & Lighting Apparatus, 2 Rector
*Salmon, Maurice, 603 W 45th
*Schlosser Mfg. Co. (Marine & Auto Motors), 151 E. 126th
*Schmidt Bros., 82 Centre
*Schmidt, F. L. (Envelope Machy.), 11th av & 21st
*Schock, Gustav, 514 W. 57th
*Schoenfeldt, Wm., 202 E 51st
*§Scholl, Adam, 225 E 138th
*Schrader's, A Son (Submarine Armor), 30 Rose
*Scott, Walter & Co. (Printing Machy.), 41 Park row. Works: Plainfield, N. J.
*Shannon Bros., 132 William
*Shapiro, H. Iron Works, 163 Essex
*Sier-Bath Co., 143 W 54th
*†§**SIMMONS, JNO. CO., 104 Centre.** (See adv. index, end of book)
*Simon, Chas., 34 W 13th
*Simons & Mayer (Iron Railings, etc.), 143 Avenue D
*†Singer Mfg. Co. (Sewing Machines & Special Machy.), 149 B'way. Works: Elizabeth, N. J.
Slotkin, Mayer Mfg. Co. (Buffing & Polishing Machines), 210 Canal
*†Smith, H. B., Co. (Steam Heating Apparatus, Radiators, etc.), 39 E Houston. Works, Westfield, Mass.
*Smith-Schellhaas Co. (Pumps), 392 2nd av
*†Southard-Robertson Co. (Stoves, Ranges, Furnaces, etc.), 255 Water. Works, Peekskill, N Y
*Specialty Machine Co., 1908 Park av
*Sprague Electric Co. (Electric Machinery, Hoists, etc.), 527 W 34th
*Staley & Gillespie (Electric Elevators, etc.), 445 W Broadway
*Standard Engineering Co., 11 Pine
†Standard Foundry Co., 45 B'way
*Standard Iron Works, 161 W 29th
*Standard Plunger Elevator Co., 115 B'way
*Standard Steam Specialty Co., 542 W B'way
*Star Seal Co. (Bottle Sealing Machines), 55 Wall

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*†Steinway & Sons (Piano Plates, etc.), 109 E 14th. Works: Astoria, Borough of Queens, New York City
*§Sterling Bronze Co. (Bronze Fdrs. & Gas & Electric Fixtures), 107 W 25th
*Stimmel, Samuel, 5 Bedford
*Stimpson, Edwin B. Co. (Special Machy., etc.), 31 Spruce
*Sullivan, Jno. W. Co., 827 E 9th
*Suren, Ferdinand, 178 Centre
*†Thatcher Furnace Co. (Hot Air Furnaces. Stoves, etc.), 110 Beekman. Works: Newark, N. J.
*Thompson, Hervey (Builders' Iron Work & Machinist), 176 E 119th
*Thomson, W. S. (Wood Working Machinery), 418 W 27th
*Thourot, Paul, 332 7th av
*Tight Joint Co. (Tight Joint Fittings), 306 E 47th
*Tierney, Edw. F., 883 3rd av
*Tirrill Gas Machine Lighting Co., 509 5th av. Works, Newark, N. J.
*Tito Auto Repair Co., 114 W 56th
*†Toop, Geo. H., 2572 Park av
*§Traylor Engineering Co. (Mining Machinery), 30 Church. Works, Allentown, Pa.
*†Treadwell, M. H. Co. (Cars, Special Machy., Castings, Forgings, etc.), 90 West. Works, Lebanon, Pa.
*§Troy Laundry Machinery Co., Ltd. (Laundry Machinery), 33 Warren
*†Turl's, Jno. Sons (Sugar Machy., etc.), 95 Liberty. Works: Newburgh, N. Y.
*Turner Machine Co., 75 Fulton
*†§Tuttle & Bailey Mfg. Co. (Warm Air Registers, Fine Brass, Bronze & Iron Castings, Bronze Doors & Tablets), 83 Beekman; Works: Brooklyn, N. Y.
*Underwood Typewriter Co., 241 B'way
*†Union Stove Works (Stoves, Furnaces, etc.), 70 Beekman. Works, Peekskill, N. Y.
*†U. S. Cast Iron Pipe & Foundry Co. (Cast Iron Pipe & Heavy Castings), 71 Broadway
*United States Gauge Co. (Gauges, Valves, etc.), 67 Wall
*†Universal Caster & Foundry Co. (Iron Founders, Ball-Bearing Casters, etc.), 1170 B'way, New York. Works: Newark, N. J.
*Van Allens & Boughton (Printing Presses). 135 William
*Wagner, Chas., 587 Hudson
*Watkin, M., 35 Pike
*†WATSON-STILLMAN CO. (Hydraulic Machinery, etc.), 38 Church. Works: Aldine, N. J. (See adv. index, end of book)
*Watson's Forge & Mach. Works, 557 W 35th
*Wendtland, Wm. (Dies), 51 Mercer
*Wenning, Jno., 225 E 106th
*†§Western Electric Co., 57 Bethune
*Westervelt, A. B. & W. T. (Builders' Iron Work), 102 Chambers
*†Wheeler Condenser & Eng. Co. (Pumps, Condensers & Sugar Machy.), 149 B'way Works, Carteret, N. J.
*†§White Mfg. Co., 556 W 34th
*Widmer Machine Works
*Wiebke, Chas. (Machinist) 135 W 3d
*Wiggenhauser, Chas., 210 Centre
*Wilhelm, Fred'k, 246 E 79th
Wilkins, Munroe P., 125 Watts
*†§Williams, John (Brass & Bronze Founders & Wrought Iron Work), 556 W 27th
*Winter, Louis F., 420 W 27th
*Wittenberg, Louis, 82 Centre
*Worcester, Albert, 182 W Houston
*Wurm, Alexius, 25 Beekman
*†§Yale & Towne Mfg. Co. (Builders' Hardware), 9 Murray. Works: Stamford, Conn.
*Yorkville Engine Co., 229 E 79th
*Zeidler, Wm. A., Co. (Laundry Machy.), 401 E 163d
*Zimmermann, Lawrence J. (Iron Railways, etc.), 281 E 148th

## Borough of Queens.

COLLEGE POINT—*New York Oil Engine Co. (Kerosene Engines or Motors)
EVERGREEN—Brantigan, Hoelzlein
GLENDALE STATION—*V. & O. Press Co. (Presses. Dies, etc.)
LONG ISLAND CITY—*Boyce, Alex. R.
*Burke Engineering & Contr. Co.
*§Federal Brass & Bronze Co.
*§Franklin Brass Foundry (Brass Castings, etc.)
§Hercules Brass Foundry, Borden av & Van Pelt. (See Brooklyn, N. Y.)
*Leu, F. (Bottlers' Machinery)
*Long Island Machine & Marine Constr. Co.
*†§McGee, Jos., Iron & Brass Fdy. Co. (Iron Fdry.), 51 6th
*Murphy & Comstock Engr. Co.
*†§Neptune Meter Co. (See New York City)
§Queens Borough Bronze & Brass Foundry
§Rhoades, R. W. & Co.
*†§Russell Foundry & Machine Works
*†§Steinway & Sons (Piano Plates, etc.)
*Sweeney & Gray (Engineers & Machinists)
*Tietzman, Charles
MASPETH — (N. Y. City) — *MERRILL Bros. (Mfrs. of Turnbuckles, Drop Forgings, Vises, Presses, Drop Hammers, etc.), 5 William. (See adv. index, end of book)
*†§Richey, Browne & Donald (Iron Arch'l & Ornamental Work & Castings)
RICHMOND HILL—†Richmond Hill Iron Fdry. Co.

## Borough of Richmond.

PORT RICHMOND—*Carlson & Russ (Inc.)
WEST NEW BRIGHTON—*†Hunt, C. W. Co (Hoisting Engines, Electric Locomotives, Cableways, Conveyors, etc.)

**(End of New York City)**

NIAGARA FALLS—*Carborundum Co. (Corundum Wheels & Machinery)
*Cataract Machine & Auto. Co.
*†Central Machine Co. (Bookbinders' Machinery)
*Chisholm-Scott Co. (Pea Hulling Machinery, etc.)
*†§DOBBIE FOUNDRY & MACHINE Co. (Hoisting Engines, Cars, Cranes. Hoists & Iron & Brass Castings, etc.). (See adv. index, end of book)
*McGarigle Machine Co.
*McNeil, H. R. Co. (Cooperage Machy.)
†Niagara Foundry Co.
*Philpot & Leupple (Machinists)
*†Ramapo Iron Works (Castings & General Track Equipment). Works also Hillburn, N. J.
NORTH HARPERSFIELD—*†Dayton, Wm. H
NORTH TONAWANDA—*†§American District Steam Co
*Buffalo Bolt Co.
*†§Buffalo Steam Pump Co. (Steam Pumps, etc.)
*†§Herschell, Spillman & Co. (Merry-go-Rounds, etc., & Park Carnival Devices)
*†Niagara Radiator & Boiler Co. (Radiators & Cast Iron Heating Boilers)
NORWICH—*†Ireland Machine & Foundry Co.
*Maydole, David, Hammer Co.
NUNDA—*Foote Mfg. Co. (Concrete Mixers & Gas Engines)
NYACK—*Ofeldt, F. W. & Sons (Gas & Gasoline Engines, etc.)
OGDENSBURG—*Dunn, Walter E. (Gasoline Engines)
*†§Fell, Jos. E.
*Glass, John
*§Hackett, Patrick Hardware Co. (Brass & Iron Founders)
*†Nash Bros. & Co. (Steam Engines, etc.)
*§Newell Mfg. Co.
§Seeley, John A., Mfg. Co.
*Silver, H. & Son
OLEAN—*†Abbott, D. S. Co. (Saw Mill Machinery, etc.)
*Carley Heater Co. (Tannery Machy, etc.)
*Chamberlin Mfg. Co. (Screw Stump Machines)
*†Luther Mfg. Co. (Punching & Shearing Machinery, etc.)
*†§Myrick Machine Co. (Gas Engines, etc.)
ONEIDA—*Coles Tool & Machine Co.
†Kelly & Kennedy
*Oneida National Chuck Co. (Drill & Lathe Chucks)
*Oneida Steel Pulley Co. (Steel Pulleys, etc.)
*Wescott Chuck Co. (Drill & Lathe Chucks)
ONEONTA—*Gorham, H. E. (Machinist)
*†§Titchener-Culver Iron Works
ORANGEBURG—*Empire Engine & Motor Co. (Air Tools, etc.)
ORISKANY—†Oriskany Malleable Iron Co.
OSSINING—*†§Ingersoll-Rand Co.. (See New York City)
*Kipp Engine Works
OSWEGO—*†§Ames Iron Works (Engines & Boilers)
*Baker, Benj. (Machinist)
*Howard Thermostat Co. (Heat Regulators etc.)
*†§Kingsford Foundry & Machine Works (Steam Engines, etc.)
*Kitts Mfg. Co. (Steam Specialties, etc.)
†§Oil Well Supply Co. (See Pittsburg, Pa.)
*†Oswego Boiler & Engine Co. (Engines, Boilers, etc.)
*Oswego Machine Works (Neil Gray, Jr., Prop.) (Paper Cutting Machines, etc.)
*Oswego Tool Co. (Dies, Tools, etc.)
*Railway Steel Spring Co. (See New York City)
OWEGO—*Champion Wagon Co. (Grain Drills, etc.)
†Ryan, Thos. E.
*Stevens, Norton A. (Machinist)
OXFORD—*Butts-Nash Co. (Machinists)
PAINTED POST—*†Allen, E. R. Foundry Co.
*†INGERSOLL-RAND CO. (See New York)
*Lane Bridge Co.
*Townsend, Fred J. (Wire Stretchers)
§Union Brass Co.
*Warns, Wm. H.
PALMYRA—*†Peerless Printing Press Co.
PATCHOGUE—*Roe, Justus & Sons (Bowler Awning Fixtures, Tape Measures, etc.)
PEARL RIVER—*Braunsdorf, Jno. H. (Printing Presses)
*†§Dexter Folder Co. (Paper Folding Machinery)
PEEKSKILL—*Anderson Machine Works (Machinists)
*†§Crane, Wm. M. Co. (Grey Iron Castings, etc.). (See New York City)
†Mohegan Stove Co.
*†§Naylor Bros. (Brick Machinery, etc.)
†Southard, Robertson Co. (Stoves). (See New York City)
†Union Stove Works (Stoves, Furnaces, etc.) (See New York City)
PENN YAN—*†§Commercial Iron Works Co.
PHELPS—*†Collins Iron Works
*†Crown Mfg. Co. (Grain Drills, etc.)
†Zenith Foundry Co. (Stoves, Ranges, etc.)
PHILMONT—*American Raveler Co.
PHOENIX—*†Sturgis & Pierce (Jobbing)
PIFFARD—*Shattuck, T. N.
PLATTSBURGH—*†§Lozier Motor Co.
*†Plattsburgh Foundry & Machine Co.
*Williams Mfg. Co. (Typewriters)
PORT CHESTER—*†Abendroth Bros. (Cast Iron Pipe, Stoves, Furnaces). (See New York City)
*Port Chester Machine Works
*Russell, Burdsall & Ward Bolt & Nut Co. (Bolts, Nuts, Screws, etc.)
PORT JERVIS—*†§Gordon & Malven Co. (Stoves)
*Jennings & Griffin Mfg. Co. (Tools)
†Swinton & Co. (Inc.) (Fdrs. & Hardware)
POTSDAM—*†§Leete, Charles H. (Iron Fdry.)
POUGHKEEPSIE—*†§Adriance, Platt & Co. (Agricultural Implements)
*†De Laval Separator Co. (Dairy Implements, etc.)
*†§Dutchess Foundry Co.
*Hart, Frederick (Builds and Develops all Kinds of Inventions and Special Machinery)
*†Hudson River Foundry Co.
*†Lane Bros. Co. (Door Hangers & Hardware Specialties)
*Lane Motor Vehicle Co. (Auto Bldrs.)
§Poughkeepsie Brass Foundry
*†Poughkeepsie Foundry & Machine Co.
*Schatz Mfg. Co. (Hardward Specialties, etc.)
*Sedgwick Machine Co. Casters,
*Standard Machine Key Mfg. Co.
PULASKI—*†§Olmsted, A. E.
RAMAPO—*†Ramapo Foundry & Wheel Works (Car Wheels & Castings of All Descriptions)
RAVENA—*†Ravena Iron Co.
RANDOLPH—*†Pike, F. H. (Foundry & Machinist)
RICHFORD—*Hilts Wrench & Mfg. Co. (Car Movers, Pipe Wrenches, etc.)
RIPLEY — *Ripley Pipe Wrench Co. (Pipe Wrenches, etc.)
RIVERHEAD—*Hudson, S. T. (Agrl. Impits., etc.)
ROCHESTER—*†§American Laundry Machy. Co. (Laundry Machy.). (See Cincinnati, O.
*†American Woodworking Machinery Co. (Woodworking Mach'y.)
*†Anstice, Josiah & Co. (Hardware Specialties)
*Ashley Machine Works
*Atlantic Stamping Co. (Tinware Mfrs.)
*Auburn Ball Bearing Co. (Ball Bearings, etc.)
*Bausch & Lomb Optical Co. (Scientific Instruments, etc.)
*Beers Bros. (Gasoline Engines, etc.)
*Booth Bros. (Shoe Machinery)
*Bourne, Jno. R. (Dies, etc.)
*Boutell Mfg. Co. (Apple Evaporating Machinery)
*Bridgeford Machine Tool Works (Axle Turning & Engine Lathes). 225 Mill
*Century Cement Machine Co., 181 Main W

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*Clark Novelty Co. (Metal Specialties, Light Machinery, etc.)
*§Clum & Atkinson (Plumbers' Brass Goods & Brass & Comp. Castings)
*Cochrane-Bly Co. (Cold Saw Cutting-off Machines, etc.)
*†Connell & Dengler Machine Co. (Woodworking Machinery)
†Co-Operative Foundry Co. (Stoves, etc.)
†Crescent Foundry Co.
*Davis, W. P. Machine Co. (Machine Tools, etc.)
*Defiance Machine Co. (Check Protectors)
*Economy Gas Machine Co. (Gas Engines)
*Elbridge Engine Co.
*†§Enterprise Foundry Co. (Hot Air Furnaces & Iron & Composition Castings)
*Erdle Perforating Co. (Machine Tools, etc.), Mill, cor Factory
†Erie Foundry Co. (Iron Fdrs), 330 Lyell av
†Eureka Foundry Co. (Castings, Grates, Manholes, etc.)
*Funck, Philip, 161 N Water
*†Galusha Stove Co. (Stoves, Ranges & Furnaces)
*†General Railway Signal Co. (Railway Signals, etc.)
*Genesee Plating & Machine Works (Machinists)
*†Gleason Works (Iron Foundries, Gears, Gear Planers, etc.)
*Goette, Rudolph F. A.
*†Heughes, F. L. & Co. (Builders' Iron Works & Castings)
*Ingle Machine Co. (Special Automatic Machinery)
*†Jones, J. Emory (Est. of) (Foundry & Machinists)
*†Judson Governor Co. (Steam Engine Governors)
*Judson Pin Co., Rochester, N. Y.
*Klip-Klip Co. (Nail Clippers)
*KNOWLTON, M. D. CO. (Paper Box Machinery). (See adv. index, end of book)
*Kohlmetz, Chas. E. & H. L., 178 N Water
*Kron, Philip (Machinists), 13 Aqueduct
*Long, Adam A. (Special Machinery, Tools & Dies)
*Luitwieler Pumping Engine Co. (Pumping Engines)
*Mack & Co. (Edge Tools, Machine Knives)
*Morgan Machine Co. (Boxmakers' Machinery, etc.), 1100 University av
*Mutschler, A. & H. G. (Elevator Motors, etc.), 268 State
*§National Brass Mfg. Co. (Metal Specialties)
*†§National Car Wheel Co. (See Pittsburg, Pa.)
§Nunn Brass Works (Brass Founders & Finishers), 17 Wentworth
*Oliver, James A. & Co., 203 State
*†OTIS ELEVATOR CO. (See New York City) (See adv. index, end of book)
*Otis, Frank H. (Special Machy, Tools & Dies)
*Parry, Samuel R. (Paper Box Machinery)
*Patric, Milan N. (Machinists, Punches, Dies, etc.)
*†Pullman Mfg. Co. (Hardware Specialties, etc.), Pullman bldg
*Ritter Dental Mfg. Co. (Dental Specialties)
*Rochester Barrel Machine Works (Barrel & Shingle Mill Machinery, etc.)
*Rochester Boring Machine Co. (Machine Tools, etc.)
*Rochester Electric Motor Co. (Electric Machinery, etc.), 3 Frank
*Rochester Machine Screw Co.
*Rochester Radiator Co., 268 State
*Rochester Roll Grinding & Corrugating Co.
*Rochester Valve Co. (Valves, etc.)
*Ryede Specialty Works (Vending Machines & Metal Specialties), 187 Main W
*§Sargent & Greenleaf Co. (Bank & Safe Locks, etc.)
*Schirck, Edw. (Machinist), 22 Spring
†Sill Stove Works (Stoves, etc.)
*Selden Motor Vehicle Co.
*Sohn, Daniel Machine Co.
*Stein, Wm. P. & Co., 282 State
*§Stromberg-Carlson Telephone Mfg. Co. (Telephones, etc.)
*†Symington, T. H. Co. (R. R. Specialties, etc.)
*Taylor Instrument Co.'s (Barometers, Hydrometers, etc.), Ames st
*Taylor-Shantz Co. (Special Machinery)
*Tibbils Mfg. Co., 84 Flint
*Todd, G. W. & Co. (Check Protectors)
*Trebert Gas Engine Co., 163 W Main
*Truesdale, S. B. & Co. (Dies, Tools, etc.)
*Tucker, Geo. A. (Machinist & Small Machinery), 14 Commercial
*Vacuum Oil Co. (Machine Shop for Their Own Use)
*Werner, John Machine Works (Confectionery Machinery)
*West Tire Setter Co. (Tire Setters, etc.)
*Wilson, W. A. Machine Co. (Machine Tools, etc.), 217 N Water
§Wray, Henry & Son (Brass Founders)

ROME—*†Adams, S. & Son
*§Doyle, W. J. (Light Machinery, Brass & Aluminum Castings, etc.)
*Harris, C. S. Co. (Power Hoisting & Carrying Machines)
*Noonan Tool & Machine Works (Auto & Bicycle Tools, etc.)
*§Rome Brass & Copper Co.
*†§Rome Locomotive & Machine Works
*†Rome Metallic Bedstead Co.
*†Rome-Turney Radiator So. (Radiators, etc.)
*Utica Industrial Co. (Utica, N. Y.)

ST. JOHNSVILLE—*Clark Machine Co. (Grain Threshers, etc.)
SALAMANCA—*†§Salamanca Engine-Iron Co. Engines & Grey Iron Castings)
SALEM—*Wayman, Sam'l T.
SARATOGA SPRINGS—*†§Baker & Shevlin Co. (Paper & Pulp Mill Machinery, Grey Iron Castings, etc.)
*Perfect Mfg. Co. (Tools, etc.),
SAUGERTIES—*†§Canner, P. (Brick Machinery & Castings, etc.)
SAUQUOIT—*Townsend, Z. P.
SCHENECTADY — *†§American Locomotive Co. (Locomotives). See New York City.)
*Burtes, A. R. & Son
*Dorsch, H. S.
*†§GENERAL ELECTRIC CO. (Electric Generators & Machinery). (See adv. index, end of book)
*Kehoe, O. C.
*Novelty Co. (Vending Machines)
†Phillips, S. C. (Broom Machinery)
*†§Westinghouse Co. (Agricultural Implements, Threshers, Stackers, etc.)

SENECA FALLS—*†American La France Fire Engine Co. (Fire Engines & Apparatus).
*†§Cast Thread Fitting & Foundry Co.
*Davis, E. C. & Co. (Plumbing Specialties)
*†§GOULDS MFG. CO. (Steam Pumps, etc.). (See adv. index, end of book)
*†§Rumsey & Co. (Steam Pumps, Fire Engines, etc.)
*†Seneca Falls Mfg. Co. (Foot Power Machinery, etc.)

SHORTSVILLE—*†§American Seeding Mach. Co. (Grain Drills, etc.), (See Springfield, O.
*Papec Machine Co. (Feed Cutters, Cream Separators, etc.)
*Star Seeder Co. (Agrl. Impits.)

SIDNEY—*Lakin, Bruce (Machinist)
SILVER CREEK—*Hammond-Homberger Co. (Mill Machinery)
*†Howes, S. Co. (Grain, Coffee & Rice Cleaning Machinery, etc.)
*†Huntley Mfg. Co. (Grain, Rice & Coffee Cleaning Machinery, etc.)
*†Invincible Grain Cleaner Co. (Flour Mill & Grain Cleaning Machinery, etc.)

SILVERNAILS—†Hicks, J. A.
SKANEATELES—*Humphries, T. J.
SODUS—*Hunt Mfg. Co. (Fruit Paring Machines)
SODUS POINT—*†Seely, D. W.
SOLVAY—*Pass & Seymour (Electric Specialties)
SPRINGVILLE—*Smith & Smith
STOCKPORT—*Philip, Rossman

SYRACUSE—*Advance Radiator Co. (Radiators, etc.)
*Ames Iron Works (Engines, etc.)
Barber Bros. (Steam & Gasoline Engines)
*†BOOMER & BOSCHERT PRESS Co. (Presses, etc.). (See adv. index, end of book)
*†Bradley, C. C. & Son (Power Hammers, etc.)
*Breads, Fred. A. & Co. (Machinists)
*Brennan Motor & Mfg. Co. (Gasoline Engines)
*Brown-Lipe Gear Co. (Auto Gears, etc.)
*§Caldwell & Ward Brass Co.
*Central City Bolt Co. (Door Hangers, Bolts, Nuts, etc.)
§Consolidated Casting Co. (See Mechanicsville, N. Y.)
*Continental Can Co.
*Continental Machine Co.
*Crouse-Hinds Co. (Electrical Specialties)
*Direct Separator Co. (Steam Specialties)
*Dodge Machine Co. (Machinists), 920 W
*Doyle & Devereaux Onondaga
*†Dunning, Wm. D. (Plaster Mixers & Pulleys, Shafting & Castings)
*Edwards, O. M. Co. (Valves, Hardware
†Empire Foundry Co. Specialties, etc.)
*†§Engelberg Huller Co. (Rice & Coffee Machinery, Grey Iron & Brass Castings)
*†Franklin, H. H. Mfg. Co. (Special Alloy Castings)
*†Frazer & Jones Co. (Harness, Hdwe. & Malleable Iron Castings)
*Frick Bros. (Machinist)
*Gale, O. Milton (Tools, Special Machy., Gears, etc.), 303 Wallace
*†General Foundry & Machine Co. (Grey Iron Castings)
†Globe Malleable Iron Co. (Malleable Iron
*Gooley & Edlund Castings)
*Houser Elevator Co. (Elevators)
*Kane & Roach (Carriage Bldrs.' Machinery)
§Kratz, Peter A.
*Lambie Mfg. Co. (Food Choppers)
*Landers, W. H. & Co. (Stoves, Furnaces, Ranges, etc.)
*Lefever Arms Co. (Automatic Hammerless Guns, etc.)
*Leighton, H. J. (Marine Gasoline Engines), 901 W Fayette
*Lipe, Chas. E. (Dies, Tools & Special Machinery), 208 S Geddes
*Lipe & Walrath (Broom Sewing Machines), 208 S Geddes
*Llewellyn & Doyle
§McVey, Hugh (Brass Founders)
*Monarch Typewriter Co. (Typewriters, etc.)
*New Process Raw Hide Co. (Cut Gears, etc.)
*§Oberdofer, M. L. Brass Co. (Brass Founders)
*†Pierce, Butler & Pierce Mfg. Co. (Radiators & Heating Apparatus), 236 James
*†Pneumelectric Machine Co. (Coal Mining Machinery, etc.)
†Reddin Iron Works (Iron Founders)
§Senk, John W. (Brass Founders)
*Shaw Coupling Co. (Power Transmission Appliances, etc.)
*Smith, L. C. & Bro. Typewriter Co. (Typewriters)
*†Smith Premier Typewriter Co. (Typewriters)
*†Smith & Caffrey Co. (Grey Iron Castings & Ornamental Iron Work), 1425 N Salina
*†§Stearns, E. C. & Co. (Automobiles, Typewriters & Hardware Specialties)
*†Straight Line Engine Co. (Grey Iron Castings. Loam or Green Sand to 20,000
*Syracuse Bridge Co. lbs.)
*†Syracuse Chilled Plow Co. (Plows, Harrows, Cultivators, etc.)
*Syracuse Faucet & Valve Co. (Brass Founders, Finishers & Plumbers' Brass Goods)
†Syracuse Foundry Co. (Iron Founders)
*Syracuse Gas Engine Co. (Gasoline Engines, etc.)
*Syracuse Gear Co.
*Syracuse Heater Co. (Heating Apparatus)
*†Syracuse Malleable Iron Works (Refined Air Furnace & Iron Castings)
*Syracuse Safe Co. (Safes, etc.)
†Syracuse Stove Works (Stoves, Ranges & Furnaces)
*Syracuse Twist Drill Co. (Twist Drills,
*Union Typewriter Co. etc.)
*U. S. Hofmann Co. (Cloth Pressing Machines)
§Van Wagner, E. B. Mfg. Co.
*Van Wie Pump Co. (Belt & Power Pumps, etc.)
*Westinghouse Electric & Mfg. Co. (See Pittsburg, Pa.)
*Wonder Mfg. Co. (Gasoline Engines)

TARRYTOWN—*§Maxwell, Briscoe Motor Co. Automobiles, etc.)
THERESA—*†§Wakefield, Jas. W.
THROOPSVILLE—*Meyer & Co. (Coil & Spiral Nuts. Axle Collars, etc.)
TONAWANDA—*†§Gille Machine Co. (Brass & Iron Foundry, Deck Engines, etc.)
*Mahar, John (Engines, Boilers, etc.)

TROY—*Adams Laundry Machinery Co. (Laundry Machinery)
*American Blower Co. (See Detroit, Mich.)
*†Bascom & Co. (Stove Patterns, etc.)
*Bernard, E. G. Co. (Dynamos & Motors,
*Bradt Mfg. Co. (Card Machines) etc.)
*Brown, Eugene H. Mfg. Co.
*Bunnell, L. S. (Machinist)
†Burdett-Smith & Co. (Stoves)
*†Carr, Jos. B. Co. (Chains, etc.)
*Covert Mfg. Co. (Hardware Specialties)
*†Fuller & Warren Co. (Stoves & Heating Apparatus)
†Gold Coin Stove Co. (Stoves)
*Gormley, Robert W. & Co. (Textile Machinery, etc.)

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*§Gurley, W. & L. E. (Surveying Instruments, etc.)
*Hammett, H. G. (Railroad Specialties, etc.)
*Hanna Mfg. Co. (Engineering Instruments)
*†Hislop, Jas. W. (Iron Foundry & Scale Mfr.)
*Knowlson & Kelley (Corliss Engines, etc.)
*†§Ludlow Valve Mfg. Co. (Iron & Brass Founders, Valves, Fire Hydrants & Water Works' Supplies)
*†Mahoney, Albert D. (Furnaces, Boilers, etc.)
*†Mahony Mfg. Co. (Iron Founders, Builders' Iron Work, etc.)
†Marshall Foundry
§Meneely Bell Co. (Bell Founders, etc.)
*Micrometer Balance Scale Co.
*Morey, Alex. W. (Machinist)
*†National Machine Co. (See Mamaroneck, N Y)
*†Neemes Bros. (Machinery Castings, Shaking Grates, etc.)
*†Phillips & Clark Stove Co. (Stoves). (See Geneva, N. Y.)
*Prankard, Chas. J. & Sons (Paper Box & Laundry Machy.)
*Rail Joint Co. (See New York)
*†§Rensselaer Valve Co. (Iron Founders, Vales, Fire Hydrants & Waterworks Supplies)
†Reynolds Chalou Foundry Co. (Heavy Machinery & Small Grey Iron Castings)
†Reynolds, Geo. W. H. Fdry. Co. (Grey Iron Fdrs., etc.)
*†§Ross Valve Co. (Valves, Fire Hydrants)
*†Taylor Electric Truck Co. (Electric Car Trucks, etc.)
*Tolhurst Mach. Works (Hydro Extractors, Laundry Machinery, etc.)
*Tompkins Bros. Co. (Textile Machinery)
†Torrance Malleable Iron Co.
*Troy File Works (Files, etc.)
*Troy Laundry Machinery Co.
†Troy Malleable Iron Co. (All Kinds of Malleable Iron Castings)
*Troy Scale Co. (Scales)
*†§West Side Foundry Co. (Grey Iron Castings, etc.)
§Wheeler Bros. (Brass & Bronze Castings)
*†West Side Structural Co.
TRUMANSBURG—*†Almy, Samuel & Son (Rollers, Plows, etc.)
UNION—*Elmira Machine Works
UTICA—§Blasier, M. E. Mfg. Co.
*Bossert Co. (Machinists & Electrical Specialties)
Divine Bros. Co. (Buffing & Polishing Wheels, etc.)
*†Eureka Mower Co. (Agrl. Implts., etc.)
*Firsching, Jos. (Knitting Machinery)
*Fisher Knitting Machine Co. (Textile Machinery)
§Foster Bros. Mfg. Co. (Iron Beds, etc.)
*†Giblin & Co. (Stoves, Furnaces, etc.)
*†Hart & Crouse Co. (Heating Apparatus, Hot Air Furnaces, etc.)
*†International Heater Co. (Heating Apparatus, etc.)
*Jones, Frank L. (Cheese Factory & Creamery Machy. & Supplies)
†Lortz-Teuscher Co. (Iron Beds)
*Mallinson, Jas.
§Merriam, Franklin M.
*Mott Wheel Works (Auto Wheels & Axles)
*†Munson Bros. Co. (Flour, Corn & Feed Mill)
*†New York Radiator Co. (Radiators, etc.)
*Northern Specialty Co. (Valves, Gauges, etc.)
*Savage Arms Co. (Fire Arms, etc.)
*Schreier, Walter (Machinists & Elevators)
*Standard Brass Mfg. Co. (Plumbers' Brass Goods)
*Steber Machine Co. (Knitting Machy.)
§Utica Brass Works (Brass Founders)
*Utica Drop Forge & Tool Co. (Forgings, Hardware & Specialties, etc.)
*Utica Fire Alarm Telegraph Co.
*§Utica Fixture Co. (Gas Fixtures, etc.)
*†Utica Heater Co. (Heaters & Furnaces)
*Utica Industrial Co. (Can Makers' Machinery). Works: Rome, N. Y.
*†Utica Pipe Foundry (Cast Iron Soil Pipe, etc.)
*†§Utica Steam Engine & Boiler Works (Engines, Boilers & Machinery)
VERNON—*†Pohl, Geo. D. Mfg. Co. (Gasoline Engines, etc.)
VOORHEESVILLE—†Bloomingdale, Frank Iron Foundry
WALTON—*†United States Brake Shoe Co. (See Buffalo, N. Y.)
*†§Walton Foundry Co.
WARSAW—*†Warsaw-Winkinson Co. (Ensilage Cutters, etc.)
WARWICK—*Richardson, H. W. & Son
WATERFORD—*†§Eddy Valve Co. (Valves, Fire Hydrants, etc.)
*Holroyd & Co. (Taps, Reamers, Screw Plates, etc.)
*King, J. M. Co. (Inc.) ("Buttons," Wire Cutter & Plier Combined)
*Miller, H. C. (Collar & Cuff Machines)
*Parker, A. A. (Pumps, etc.)
§Roberts & Holloway (Brass Fdry.)
*Snyder & Metcalf (Machine Tools)
WATERTOWN—*†§Bagley & Sewell Co. (Iron Fdrs. & Paper & Pulp Mach'y)
*†§Harmon Machine Co.
*†Lance, Geo. A.
*†Massey Machine Co. (Machinists)
*†New York Air Brake Co. (Air Brakes & R. R. Appliances). (See New York City)
*†New York Engine Co. (See New York City)
*Stebbins Eng. & Mfg. Co. (Mill Machinery)
*Union Carriage & Gear Co.
*Watertown Motor Co. (Motors, etc.)
Watertown Spring Works
*§Wise, J. B. (Hdw. Specialties, etc.)
WATER VALLEY—*†Stuart, Parson H.
WATERVILLE—*†§Berrill's, J. A. Sons (Iron & Brass Fdrs., etc.)
*Daniels, Samuel A.
*†Waterville Fdry. & Mfg. Co. (Paint Grinding & Mixing Machy.)
WATERVLIET—*†Aird, Alanson, A. (Cast Iron Bushings & Plugs, etc.)
†Covert Mfg. Co. (See Troy, N. Y.)
*†Jones, J. M. Sons (Electric Cars)
*King Mfg. Co. (Waste Traps, etc.)
*§Meneely, Geo. R. & Son (Car Bearings)
*§Meneely & Co. (Bell Fdrs.)
†Troy Malleable Iron Co. (See Troy, N. Y.)
†§U. S. Arsenal
*†West Side Foundry Co. (See Troy, N Y)
WEBSTER—*Jennings, E. M.
WEEDSPORT—*Burritt, O. W. & Bro. (Machine Tools, etc.)
WELLSVILLE—*†Clark & Norton Mfg. Co. (Engines, etc.)
*Gallman, C. H.
*Kerr Turbine Co. (Steam Turbines)
*†§McEwen Bros., Inc. (Steam Engines, etc.)
*Young, Chas.
WESTMORELAND—*†Westmoreland Malleable Iron Co.
WILLIAMSON—*Fuller & Cooper (Spraying Machines, etc.)
WOLCOTT—*†Curtis, O. M. (Machinist)
*†Knapp, F. P.
YONKERS—*†§Allen, David E. (Iron Fdry.)
*Conley, Jno. J. (Machinist & Millwright)
*Danner, Ad. Co. (Machinist)
*Morris, Thos. (Machinist)
*†§Otis Elevator Co. (See New York City)
*†Saunders', D. Sons (Inc.) (Pipe Cutting & Threading Machines)
*Segschneider, Rudolph G.
*Skinner & Connolly (Machinists)
YOUNGSTOWN—*†Ripson, Wm. & Son (Iron Fdrs. & Plows, Cultivators, etc.)

## NORTH CAROLINA.

ABERDEEN—†Hurley, W. S.
*†Sharp, T. M.
APEX—†Walls & Co.
ASHEBORO—*†Asheboro Wheelbarrow & Mfg. Company
ASHEVILLE—*†§Asheville Supply & Fdry Co.
*†§Sternberg Supply & Foundry Co.
AURORA—*Aurora Mfg. Co. (Farm Implts.)
*Cherry Implement Co. (Agrl. Implts.)
BISCOE—†§Biscoe Foundry & Machine Co.
BURLINGTON—*†Cates Machine & Bridge Co. (Dye Mach'y, Castings, etc.)
*Virginia Bridge & Iron Co. (See Roanoke, Va.)
CARDENAS—*Wake Machine Works
CHARLOTTE—*†§American Machine Mfg. Co. (Engineers & Machinists)
*†§Charlotte Pipe & Foundry Co. (Cast Iron Pipe, etc.)
*†Cole Mfg. Co. (Cotton Planters)
*Jarrell, W. G. Machine Co.
*†Liddell Co. (Engines & Machinery & Castings)
*†§Mecklenburg Iron Works (Saw Mill & Mining Mach'y. etc.)
*†§Moffatt Machinery Mfg. Co. (Pumps, Elevators, etc.)
*†§Park Mfg. Co., Inc. (Belt & Power Elevators, etc.)
*Whitted & White
CONCORD—*†§Concord Foundry & Machine Works Co.
CORNELIUS—*Miller Mfg. Co.
DUNN—*†§McKay, J. A. Mfg. Co. (Machinists & Iron & Brass Castings of All Kinds)
DURHAM—*†§Durham Iron Works
ELIZABETH CITY—*†§Elizabeth City Iron Works
FAYETTEVILLE—†§Carolina Machine Co.
*Clark, I. W., Machine Co.
†§Ward, Thos. (Plows, etc.)
GOLDSBORO—*†Dewey Bros. (Iron Fdrs., etc.)
*†Wayne Agricultural Works (Plows, etc.)
GREENSBORO—*Clymer, L. M.
*Clymer Machine Works (Steam Heaters, Valves, Boxes)
*†Cook-Lewis Foundry Co.
*†Glascock Stove & Mfg. Co. (Stoves & Hollow Ware, Plow Castings, Special
*Gray, R. A. Machinery, etc.)
*†Greensboro Boiler & Machine Co. (Boilers, Corliss Engines, etc.)
*Newman Machine Co. (Saw Mill Machy.,
*Petty-Reid Co. etc.)
*†Sergeant Mfg. Co. (Fdrs. & Machinists
*Universal Machine Co. & Agl. Implts.)
*Wysong & Miles Co. (Woodworking Ma-
GREENVILLE—*Humber, R. L., Machine
HAW RIVER—*Thompson, J. & Son Works
HICKORY—†King Heater Co. (Heaters, Stoves, etc.)
*Latta & Martin Pump Co. (Pneumatic
*†Piedmont Fdry. & Machine Co. Pumps)
HIGHPOINT—*†Central Foundry & Machine
*†High Point Metallic Bed Co. Co.
*†High Point Pipe & Fdry. Co. (Soil Pipe,
JACKSON—*Moore, John E. etc.)
KINSTON—*†§Hodges, E. M.
LAURINBURG—*Blue, Jno. (Machinist)
NEWBERN—*†A. & N. C. Ry. Shops
*†§Newbern Iron Works & Supply Co.
NORTH WILKESBORO—†Wallace, J. V.
PINETOWN—*Parker, Surrey (Hoisting Engines, Logging Machines)
RALEIGH—†Gill, J. H. (Iron Fdry.)
*†§Raleigh Iron Works Co.
ROCKY MOUNT—*Rocky Mount Machine Co.
RUTHERFORDTON—*†Southern Foundry & Machine Co.
SALISBURY—*†Salisbury Supply & Commission Co.
*†§Thompson, P. H.
SANFORD—†Moffitt Iron Works Co. (En-
*†§Selma Iron Works gines, etc.
STAR—*†§Star Machine Co.
STATESVILLE—†Steele, J. C. & Son (Brick Machy., etc.)
WAKE FOREST—*†Wake Forest Foundry Co. (Plows, etc.)
WANANISH—*Council Tool Co. (Tools, etc.)
WASHINGTON—*†§Mutual Machine Co. (Fdrs. & Machinists)
WILLIAMSTON—*Woolard, J. L. (Harrows, etc.)
WILMINGTON—*†§Cape Fear Machine Works
*†§Wilmington Iron Works
WILSON—*†§Davis, W. J., Machinery Co.
WINSTON SALEM—*†American Aquahoist Co. (Pumps, etc.)
†Cook, Lewis, Foundry Co.
†Reynolds, R. J., Tobacco Co.
*†§Salem Iron Works (Engines, Saw Mills, Coffee & Rice Plantation Mach'y., etc.)
*†§Vance, J. A. & Co. (Fdrs. & Machinists, Woodworking Mach'y, etc.)

## NORTH DAKOTA.

CANDO—*†Cando Implement Co. (Agrl. Implements)
FARGO—*Fargo Bridge & Iron Co.
*†§Fargo Foundry Co (Gasoline Engines, Light & Heavy Castings)
GRAND FORKS—*†§Grand Forks Foundry & Machinery Co.)
LANGDON—*McMillan Machine Co.
PARK RIVER—*Holland, Sam'l
WAHPETON—*†§Richter, J. J.

## OHIO.

ADDYSTON—*†U. S. Cast Iron Pipe & Fdry. Co. (See New York City)
AKRON—*†§Adamson Machinery Co. (Rubber Machinery, etc.)
§Akron Brass & Bronze Foundry Co.
*Akron Cultivator Co. (Agrl. Implts., Cultivators, etc.)
*†Akron Foundry Co. (Machinery Castings, etc.)
*Akron Rubber Mold & Machine Co. (Rubber Molds, etc.)
*Agron-Selle Co. (Wagon Gears)
†Atlantic Foundry Co. (Rubber Mfg. Machinery)
*Brandon Machine Co. (Mitering Machines, Mounting Presses, etc.)
*Bridgewater Machine Co.
*Budd, Harry T. (Dies, etc.)

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*Burger Iron Co. (Bldrs. Steel Work)
*Burt Mfg. Co. (Oil Filters, etc.)
†Christy Steel Co. (Crucible Steel Castings)
Enterprise Mfg. Co. (Metal Specialties & Fishing Tackle, etc.)
*Garl Electric Co. (Annunciators & Telephones & Apparatus)
†Imperial Electric Co. (Dynamos, Generators, etc.)
*†International Harvester Co. (Buckeye Works). (See Chicago, Ill.)
*Kile Mfg. Co. (Sucker Rods)
*Knaak Bros. (Engineers & Machinists)
*†May & Fiebeger Co. (Hot Air Furnaces)
*Ornamental Iron Works Co.
†Prudential Heating Co. (Hot Water Heating Apparatus)
*Sackmann Mfg. Co. (Inc.) (Steel Stamps, Stencils & Seals)
*†§Star Drilling Machine Co. (Well Drilling Machinery, etc.)
*†§Taplin-Rice-Clerkin Co. (Stoves, Furnaces, Clay Working Machy., etc.)
*†§Wellman-Seaver-Morgan Co.
†**WHITMAN & BARNES MFG. CO.** (Agricultural Implts., Twist Drills, Wrenches, etc.) (See adv. index, end of book)
*†Williams Foundry & Machine Co. (Pottery & Rubber Machinery, Friction Clutches, etc.)
*†Wise Furnace Co. (Hot Air Furnaces, etc.)
*XXth Century Heating & Vent. Co. (Steam Heaters & Hot Air Furnaces)

ALLIANCE—*Alliance Machine Co. (Cranes, Riveters, Punches, Steam Hammers, Presses, Shears & Rolling Mill Mach'y)
†American Steel Foundries Co. (Open Hearth Castings). (See Chicago, Ill.)
†Bangs, Fred'k (Mach'y, Castings & Land Rollers)
*†**MORGAN ENGINEERING CO. (Cranes,** Steam Hammers & Hydraulic & Rolling Mill Mach'y). (See adv. index, end of book)
*Reeve Bros. Co. (Boilers, Tanks, etc.)
Wood Engineering Co. (Tool Grinders, etc.)

ASHLAND—*Ashland Machine Co. (Sewing Machines)
*Ashland Steel Range & Mfg. Co. (Clay Working Mach'y)
*Elite Mfg. Co. (Concrete Mixers, Auto Jacks, etc.)
*Hunter, Jas. S.
*†§Myers, F. E. & Bro. (Pumps & Agrl. Implts., etc.)
*Safety Door Hanger Co. (Door Hangers)

ASHTABULA—*†American Fork & Hoe Co. (See Cleveland, O.)
*Ashtabula Mfg. Co. (Hdw. Specialties)
*†Barber Mfg. Co. (Furnaces, Hdw. & Plumbers' Specialties & Iron Fdrs., etc.)
*†McKinnon Iron Works (Iron Fdry., etc.)
†Noyes Heater Co. (Heaters, Furnaces, etc.)
*†§Phoenix Foundry & Machine Co.

ATHENS—*†§Athens Fdry. & Machine Co.

AVERY—*Hoover-Prout Co. (Potato Diggers, etc.)

BARBERTON—*†§Babcock & Wilcox Co. (Water Tube Boilers & Castings) (See
*†§Diamond Match Co. New York City)
*†§Pittsburg Valve & Fitting Co. (Valves, Pipe Fittings & Iron & Brass Castings)

BARNESVILLE—*Hall, Geo. D.
*†§Watt Mining Car Wheel Co. (Mine Cars & Wheels, etc.)

BATAVIA—*Carroll-Jamieson Machine Tool Co. (Foot Lathes, etc.)

BEDFORD—†Best Foundry Co.

BELLAIRE—†Bellaire Stove Co. (Stoves)
*†§Carnegie Steel Co. (Office Pittsburg, †§Dorer, C. L., Fdry. Co. Pa.)

BELLEFONTAINE—*†Bellefontaine Bridge & Steel Iron Co.
*Bellefontaine Foundry & Machine Co. (Steam Shovels, Dredges, Repairs, etc.)
*Bowman, John W. & Son
*†Hennesey, D. R.
†§Humphrey, Chas. S.

BELLEVUE—*Conway Steel Range Co. (Steel Ranges)
*†Ohio Cultivator Co. (Agricultural Implements, etc.)

BEREA—*†Dunham Co. (Harrows, Corn Shellers, etc.)

BIG PRAIRIE—*§Monitor Sad Iron Co.

BLUFFTON—*Althaus, Ewing & Co. (Gas Engines)
*Arras Cream Separator Co. (Cream Separator Co. (Cream Separators)
*Bluffton Cream Separator Co.
*Diller Mfg. Co. (Gas Engines, etc.)
*Triplett Meter Co.

BOWLING GREEN—*Gramm Motor Car Co. (See Lima, O.)
*Standard Machinery Co. (Bolt Cutters. Pipe Machines, etc.)
*†§Thornburgh Mfg. Co. (Garden Tools, Cultivators, Light & Heavy Grey Iron Castings, etc.)

BRIDGEPORT—*Hill, Thomas

BRYAN—*†Bryan Plow Co. (Plows, Harrows, *Woodward, Edwin etc.)

BUCYRUS—*†§American Clay Machinery Co. (Brick & Clay Mach'y, etc.)
†Bucyrus Foundry Co.
*†Carroll Foundry & Machine Co. (Basic Open Hearth Castings)
*Crooks & Uhle
*Hall Gas Engine Co. (Gas Engines, etc.)
*New York Blower Co. (Blowers, Exhausters, Fans, Steam Engines, etc.). (See Chicago, Ill.)
*Ohio Locomotive Crane Co. (Cranes, etc.)
§Ryder Brass Foundry Co. (Brass & Bronze Castings, etc.)
*†Shunk Plow Co. (Agl. Implts., Plows, Cultivators, etc.)
*Van Loozen Multi-Color Printing Press Co.

BYESVILLE—*†Hall Gas Engine Mfg. Co. (Gas Engines)

CADIZ—*Chisholm-Scott Co. (Pea Hulling Machinery, etc.)
*Scott Bros. (Hardware Specialties)
*Scott, C. S.
*Ward, W. G. (Machinist)

CALDWELL—*†Caldwell Mining Car & Fdry. Co. (Cars, etc.)

CAMBRIDGE—*Du Charme Co. (Pipe Vises, etc.)

CANAL DOVER—*Dover Electric Mfg. Co. (Dynamo & Motor Mfrs.)
*†Dover Mfg. Co. (Sad-Irons, etc.)
*†Hardesty Mfg. Co.
*†Wagner Bros.

CANAL FULTON—*Fulton Machine & Forging Co.
*†Fulton Pitt Car Co. (Mine Cars & *Fulton Tool Works Wheels)

CANTON—*†§Alliance Foundry Co. (Grey Iron Castings)
*†American Sheet & Tin Plate Co.' Roll Machine Works (Rolling Mill Machy.)
*§Balm, J. A. Mfg. Co. (Brass Goods & Castings, etc.)
*§Best Light Co. (Incandescent & Vapor Gas Lamp Burners, Aluminum & Brass Castings, etc.)
*†Bonnot Company (Brick, Clay Working & Cement Machy., etc.)
*†Bucher & Gibbs Plow Co. (Agl. Implts., Plows & Cultivators)
*Callaghan Machine & Die Co.
*CANTON BOILER & ENGINEERING Co. (Steel Plate Work of All Kinds). (See adv. index, end of book)
*§Canton Brass & Machine Co. (Aluminum, Brass & Bronze Castings)
*Canton Bridge Co. (Bridges, etc.)
*Canton Drop Forging & Mfg. Co. (Drop Forgings & Machinists)
*†CANTON FOUNDRY & MACHINE Co. (Sheet Metal Working Machinery, Castings, etc.) (See adv. index, end of book)
*Canton Machine Shop
*†Canton Malleable Iron Co. (Saddlery Hardware, etc.)
*†Canton Pump Co. (Steam Pumps, etc.)
*(§Canton Saw Co. (Woodworking Machinery, etc.)
*†Cleveland Axle Mfg. Co. (Axles, etc.)
*Cleveland-Canton Spring Co. (Carriage Springs, etc.)
†Columbia Iron & Wire Works
†Dick, Jos. Fdry. Co.
*†Dick, Jos. Mfg. Co. (Inc.) (Agricultural Implements)
*§Diebold Safe & Lock Co. (Bank Vaults Safes, etc.)
*Dueber Watchcase Mfg. Co. (Watch Cases, etc.)
*†§Elbel Co. (Saddlery Hdw. & Castings)
*Engine & Machinery Co.
*†Frankham, Wm. & Son (Models, etc.)
*Gibbs Mfg. Co. (Hardware Specialties)
*Hampden Watch Co. (Watch Mfrs., etc.)
*Hurst, H. L. Mfg. Co. (Spray Pumps)
*Knight Mfg. Co. (Saw Mill Machy., etc.)
*Kohler, F. E. & Co. (Garden Tools & Hdw.
*†McLain, J. H. Co. (Heating Apparatus.
*Miller, C. Brownlow etc.)
*Miller Pasteurizing Machine Co. (Pasteurizing Machines, etc.)
*Ney Mfg. Co. (Haying Tools, Carriers, etc.)
*Ney, V. L. Co. (Haying Tools, Carriers, Lawn Rakes, Post Hole Diggers, etc.)
*†Novelty Iron Co. (Radiators, Heating Apparatus, Castings, etc.
*Ohio Farmers' Hay Tool Co. (Haying Tools, etc.)
*Pittsburg Pneumatic Co. (Pneumatic Tools, etc.)
*†Royal Foundry & Furnace Works
†Shull Steel Castings & Mfg. Co. (Steel Castings)
Skinner Mfg. Co. (Hardware Specialties)
*§Sun Vapor Street Light Co. (Incandescent & Vapor Street Lamps, etc.)
*Swineford, G. A. Co. (Haying Tools, etc.)
*Timken Roller Bearing Co. (Roller Bearings for Vehicles, etc.)
*Wagener Steam Pumps Works (Steam Pumps, etc.)
*Whiteman Mfg. Co. (Tumbler Washers, etc.)
*Wright Wrench & Forging Co. (Wrenches

CARTHAGE—(See Cincinnati, O.) etc.)

CHAGRIN FALLS—*†Ober Mfg. Co., Woodworking Machinery, Sad-Irons, etc.)

CHILLICOTHE—*†§B. & O. South Western Railway Shops
*Deschler, August (Machinist)
*Deweese, F. M. & Co. (Lifting Jacks, etc.)

CINCINNATI—*Acme Machine Tool Co. (Machine Tools, etc.)
*Ahrens-Fox Fire Engine Co. (Steam Fire Engines & Pumps), Alfred & Cook
*Ahrens Iron Works Co. (Builders' Iron Work)
*Alpine Safe & Lock Co., 903 Freeman
*§American Brass Works (Plumbers' Brass Work), 426 Plum
*†American Laundry Machinery Co. Laundry Machy., etc.), Norwood
*American Safe & Lock Co. (Safe & Lock Mfrs.)
*American Tool Works Co. (Machine Tools. Lathes, Planers, Shapers, Drills, etc.)
§American Valve & Meter Co. (Water Cranes, R. R. Switches, Valves & Castings), 1125 Gest
*Andrew, M. L. & Co. (Woodworking Machinery, etc.), 2852 Spring Grove av
*Atlas Machine & Tool Works, 206 Ludlow
*†Bahmann Iron Works Co. (Sugar, Coffee & Rice Plantation Machinery, etc.)
*Barker, Wm. & Co. (Machine Tools, etc.)
*Barnes, Chas. Co., 55 Main
*†Baum, J., Safe & Lock Co. (Safes)
§Behrens, F. D. Co. (Harness Specialties, etc.), 124 E. Court
*Berghausen Machine Co., 601 Lock
*Blettner, Jos. B. & Co. (Soap & Candle Mach'y), 1974 Central av
*Block-Pollak Iron Co. (See Chicago, Ill.)
*†Blymyer Iron Works Co. (Iron Fdrs., Sugar, Coffee & Rice Plantation Mach'y), 2933 Spring Grove av
†Bollmann-Wilson Foundry Co., 506 E. Front
*†§Bourbon Copper & Brass Works (Fire Hydrants, Stop Valves, Extension Valve Boxes & Iron & Brass Fdrs., etc.), 618 E Front
*Box Supply Co. (Box Shook Weaving Machines, etc.
*Bradford Machine Tool Co. (Machine Tools, Engine Lathes, etc.), 657 Evans
*†Bruce, Jno. J., Foundry Co. (Iron Fdrs., Machine Tools, etc.), 2421 Colerain av
†Buckeye Foundry Co. (Iron Fdrs., Machinery Castings, etc.)
*†§Bullock Electric Mfg. Co. (Dynamos, Generators, etc.), East Norwood
*Buob & Sheu (Machinists), 23 Home
*Burton Range Co. (Steel Ranges)
*Carlisle & Finch Co. (Searchlights & Motors, etc.), 231 E Clifton av
*Champion Tool Works Co. (Lathes, etc.)
*Cincinnati Ball Crank Co. (Machine Handles, Ball Crank)
§Cincinnati Bell Foundry Co. (Bell Fdrs., etc.), 2933 Spring Grove av
*†Cincinnati Car Co. (Electric Car Builders)
*Cincinnati Electrical Tool Co. (Electric Drills & Grinders), 650 Evans
*Cincinnati Elevator Works (Elevators. etc.), 216 W 2d
*†Cincinnati Equipment Co. (Locomotives. Cars, Steam Shovels, etc.), Culloms Station
*Cincinnati Frog & Switch Co. (Frogs. Switches, etc.)
*Cincinnati Gear Co. (Gears, etc.)

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*Cincinnati Grinder Co. (Universal Grinders, etc.)
*Cincinnati Lathe & Tool Co. (Machine Tools, etc.), 2730 Spring Grove av
*§Cincinnati Mfg. Co. (Brass & Bronze Fdrs. & Ornamental Iron, Brass & Bronze Works), 1243 W 6th
*Cincinnati Milling Machine Co. (Machine Tools, etc.), Spring Grove av & Alfred
*Cincinnati Planer Co. (Metal Planers)
*Cincinnati Shaper Co. (Machine Tools, etc.), Elam & Garrard av
*Cluthe, G. Co. (Edge Tools & Hdw. Specialties), 28 E Court
*†Columbia Brake Shoe & Foundry Co., Traction bldg
*Columbia Iron Works (Bldrs.' Iron Work)
*Consolidated Time Lock Co. (Time Locks, etc.), 315 W 4th
*Conway & Co. (Pulleys, etc.), 2507 Western av
*Cordesman-Rechtin Co. (Woodworking Machines, etc.), 55 Central av
*Cordesman, Meyer & Co. (Woodworking Machines, etc.), 55 Central av
*Crane Machine Tool Co. (Machine Tools)
*Crane & Breed Mfg. Co. (Metallic Burial Cases, etc.), 1227 W 8th
*Curran, Jas. H. Elevator Co. (Elevators)
*Dana Mfg. Co. (Food & Meat Choppers)
*†Day, J. H. Co. (Laboratory & Pulverizing Mach'y, etc.), 114 Harrison av
§Deckebach, F. G. Sons Co. (Brass Fdrs. & Finishers), 123 W Court
*Deters, F. & Co. (Pop Corn Mach'y, etc.) & Printing Mach'y)
*§Douglas, Jno. Co. (Plumbing Goods),
*Dreses Machine Tool Co. (Machine Tools, etc.)
*Eagle Mfg. Co. (Special Machy.)
*Edna Brass Mfg. Co. (Car & Motor Brasses & Castings)
§Electric Railway Equipment Co.
†Elmwood Castings Co. (Grey Iron Castings, etc.), Elmwood pl
*§Enterprise Brass & Plating Co. (Carriage Mountings, Brass Finishers & Platers, etc.), 2838 Spring Grove av
*†Erhhart, Chris. (Filter Presses, Castings of Every Description, etc.)
§Eureka Brass Works (Brass Fdrs.)
†Eureka Foundry Co. (Iron Fdrs., etc.), 1110 Richmond
*†Fay, J. A. & Eagan Co. (Woodworking Mach'y, etc.), Front & John
§Fewlass Leen Brass & Iron Co. (Brass Fdrs. & Finishers)
*Fosdick Machine Tool Co. (Machine Tools)
*Francis, Chas. E. & Bro. (Woodworking Machy., etc.)
*Freeman, Louis G. Co. (Shoe Machy.)
*Frisbie Engine & Machine Co. (Engines, etc.)
*Gang, Wm. E. Co. (Machine Tools)
*Geier, Jno. (Special Machinery), 325 W 2d
§Globe Brass Works, 62 Elm
*†Gray, G. A. Co. (Machine Tools)
*Greaves, Klusman & Co. (Machine Tools & Woodworking Mach'y). Cook & Alfred
*†Greenwald, I. & E. Co. (Engines, Gears, Powder Mill & White Lead Machinery, etc.), 720 E Pearl
*Grimm, I. & Co. (Bldrs.' Iron Works), 155 E McMicken av
*HALL SAFE CO. (Safes & Bank Vaults), Spring Grove & Kinney. (See adv. index, end of book)
*Hardisty & Co. (Augers, Machine Knives, etc.), Harris & Penna. R. R.
*†§Haven Malleable Casting Co. (Malleable Iron Fdrs. & Carriage Hdwe.)
*Hemplemann & Hector (Special Machy., etc.), 57 Murdock blk
*Henrichson Scale Co. (Butchers' Scales)
*Hess Spring & Axle Co. (Auto Axles, Springs, etc.)
§Hesterberg, R. & Co.
*Hilbert Machine Co. (Machine Tools)
*Hisey-Wolf Machine Co. (Machine Tool Grinders, Drills, etc.), 2908 Cormandy av
*Homan & Co. (Candle Moulding Machy., etc.), Findlay & Western av
*Homann Model Works, 427 Main
§Hoppe, Chas. & Co. (Brass Goods), 632 Main
*†Houston, Stanwood & Gamble Co. (See Covington, Ky.)
†Huenefeld, Ernst H. Co., Inc. (Steel Ranges, etc.)
*§Incandescent Light & Stove Co
*International Harness Machinery Co. (Harness & Leather Working Mach'y), 630 Sycamore
*Johnston, B. C. & Co. (Machinists & Engineers), 633 Walnut
*Johnston, Wm. T. Co., 520 Main
*Keene, Geo. C. & Co. (Sheet Metal Workers' Mach'y & Tools), 2327 Florence av
*Kern Machine Tool Co. (Upright Drills, Pulley Lathes, etc.), 4657 Spring Grove av
*King Machine Tool Co. (Machine Tools)
*Kingery Mfg. Co. (Confectioners' Machy., etc.), 106 E Pearl
*Kinsey, E. A. Co., 331 W 4th
§Kinsley, J. R. (Brass Fdrs.), 115 E 6th
*§Kirkup, Robt. & Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods), 616 Lodge
*Knecht Planer Co. (Planers, etc.)
†Knecht, Victor Co.
*Koenigkramer, F. & F., 1140 York
*Kuehnle, Jno. & Son (Edge Tools, Machinists' Bits & Cutters for Woodworking Machinery), 2110 Colerain av
*†§Laidley-Dunn-Gordon Co. (Pumping Engines & Machy., etc.)
*†Lane & Bodley Co. (Air & Gas Compressors, Corliss & Slide Valve Engines, etc.)
*Le Blond, R. K. Machine Tool Co. (Machine Tools, etc.), 4601 Eastern av
†Limberg Foundry & Enameling Co (Enameled Iron Bath Tubs & Iron Castings, etc.), Florence av. & Symmes
*†Lipp, Louis, Co. (Plumbing Goods),
*Lodge & Shipley Machine Tool Co. (Machine Tools, etc.)
†Lotze's, A. Sons & Co. (Steel Ranges, Hot Air Furnaces, etc.)
*†§LUNKENHEIMER CO. (Brass & Iron Fdrs., Steam, Water & Engineering Specialties), Waverly av & Beekman. (See adv. index, end of book)
*Lynn Superior Co. (Filters' & Bakers' Machinery)
*McFarlan & Spilker Mfg. Co. (Picture Frame Machy., etc.)
*†§McGowan, Jno. H. Co. (Pumping & Tobacco Machy. & Brass & Iron Fdrs., etc.)
*MacLeod, Walter & Co. (Paint Spraying Machines, Air Compressors, etc.)
*†Merrie, Hugh (Plumb'g Goods)
§Messmer, Andrew Co. (Brass Fdrs. & Finishers), Patterson & Bank
*Metzger, J. Mfg. Co. (Machinists)
*Miller, A. W. Mfg. Co. (Wood Working Machy.)
*Miller, Du Brul & Peters Mfg. Co. (Cigar & Cigarette Machy., etc.), 507 E Pearl
*Miller, Wm. Range & Furnace Co. (Ranges, Furnaces, etc.), 125 E 5th
*Monarch Tool & Mfg. Co. (Tool Dies, etc.), 120 Opera pl
†Monitor Stove & Range Co. (Stoves, Ranges, etc.), C. H. & D. Ry. & Gest
*†Morris, Jno. B. Foundry Co.
*†Mowry Car Wheel Works Co. (Grey Iron Castings, Brake Shoes, etc.)
*Muehlmatt, Adolph (Tools, etc.)
*Mueller Machine Tool Co. (Machine Tools, Radial Drills, etc.), 2427 Colerain
§National Brass Mfg. Co. (Furniture & Hearse Trimmings, etc.)
*National Elevator Co. (Elevators, etc.)
*National Machine Tool Co. (Key Seat Millers, etc.)
§Nichol, Thos. J. & Co. (Brass Fdrs. & Finishers' Plumber Goods)
*Niebling, F. W. Co. (Ice Machines & Fittings), Norwood
*Nugent Tool Co. (Friction Clutches, etc.)
*Nunning, Frank & Son (Machinists, etc.)
*†Oberhelman, J. A. Foundry Co.
*Oesterlein Machine Co. (Machine Tools, etc.), 2850 Spring Grove av
§Ohio Brass Foundry (Brass Castings etc.)
*Ohio Knife Co. (Machine Knives, etc.)
§Ohio Pattern Works (Brass Castings, etc.)
*†Ohio Steam Shovels & Dredge Co. (Steam Shovels, etc.)
*Parks Ball Bearing Machine Co. (Wood Working Machinery)
*†Peck-Hammond Co. (Hot Air Furnaces, Heating & Ventilating, etc.)
*†Peck-Williamson Heating & Ventilating Co. (Iron Fdrs.), 335 W 5th
*†§Prau Mfg. Co. (Plumbing Supplies)
*Pfister, Herman (Engineering & Surveying Instruments, etc.), 428 Plum
*Pocock, Oliver (Sheet Metal Workers' Machy. & Tools), 1042 Harriet
*Post-Glover Electric Co. (Electric & Elec. Railway Specialties), 314 W 4th
§Powell, Wm. Co. (Steam & Engineering Specialties & Brass Fdrs.)
§Queen City Brass & Iron Works (Brass)
Queen City Forging Co. (Carriage Hdw., etc.)
*Queen City Machine Tool Co. (Machine Tools), Sycamore & Webster
*Queen City Punch & Shear Co. (Punching & Shearing Mach'y)
*Rahn-Larmon Co. (Machine Tools, etc.)
*Randall, J. D. Co. (Harness & Horse Collar Machinery)
*†Randle Machinery Co. (All Kinds of New & Second Hand Re-Built Machinery), 1723 Powers
*Rechtin, Louis E. & Bro. (Woodworking Machy.)
*REEDY, H. J. CO. (Elevators, etc.), 15 W 2d. (See adv. index, end of book)
*Rich Pump Co. (Pumps, etc.), 625 Carr
§Richter Co. (Plumbers' Brass Goods)
*Robinson, J. M. Mfg. Co. (Sheet Metal Workers & Tools), 3282 Spring Grove av
Ross, Jas. (Saws, etc.), 107 E Court
*Ross-Moyer Mfg. Co. (Boot, Shoe & Harness Machinery), 634 Sycamore
*Schacht Mfg. Co. (Mach'y Specialties), 2727 Spring Grove av
*Schellenbach-Hunt Tool Co. (Reamers, etc.)
*Schneider & Goosmenn Machine Co. (Metal Planers)
*Schriver, O. P. & Co. (Hardware, etc.), 621 E. Pearl
§Schroder, J. B. & Co., Builders' Hardware, etc.), 133 E 5th
*†§Schreiber, L. Sons Co. (Structural, etc.), 431 E 8th
*Schumacher & Boye (Machine Tools), 2245 Spring Grove av
*Shepard Lathe Co. (Machine Tools), 131 W 2d
*Sicking, Bernard
*Simmons, W. H. & Co. (Machinists), 424 E Second
*Smith, Myers & Schnier (Steam Engines, Saw Mills, etc.), 621 W Front
*Smith & Mills (Machine Tools, Crank & Geared Shapers, etc.), Spring Grove av & Township
*†Stacey Mfg. Co. (Bldrs. Iron Work, Gas Meters, Bench Castings, etc.), Township av & C., C., C. & St. L. Ry.
*Standard Die Co. (Cutting Dies, etc.), 125 E Canal
*†Standard Pulley Co., 1734 Powers
*Steigert, Leopold (Machinist), cor. Elder & Logan
*Steptoe, Jna. Shaper Co. (Shaping Machines, etc.), 2951 Colerain av
*Stewart Iron Works Co. (Jail & Cell Work, Iron Work, etc.)
*Straub Machinery Co. (Flour Mill Machy., etc.)
*Streit, A. Machine Co. (Automobile Engines)
*Stuebing Automatic Machine Co., 23 Gano
*SWING ELECTRIC CO. (Electric Motors), 327 E 6th. (See adv. index, end of book)
*†Tatum, Saml. C. Co. (Grey Iron Castings, Copying Presses, Binders & Printing Machinery), Colerain av & Monmouth
*Toledo Electric Welding Co. (Welding Machines)
*Tool Steel Gear & Pinion Co. (Gears & Pinions), Carthage
*Towsley, Jno. T. Mfg. Co. (Woodworking Machy, etc.), Evans N of Gest
*†Triumph Electric Co. (Dynamos, Motors, Generators, Brass & Bronze Castings, etc.), 610 Baymiller
*Triumph Ice Machine Co. (Ice Machines, Cranes, etc.)
*Triumph Mfg. Co. (Bakers' & Butchers' Machy.), Spring Grove av & Sassafras
*Tucker Machine Co. (A. P. Tucker, Prop.), (Tool Grinders, etc.), 224 E 9th
†United States Aluminum Castings Co. (Roller Brakes, etc.), 1623 Blue Rock
*United States Electrical Tool Co. (Electric Portable Hand Drills & Grinders), 1938 W 8th
*U. S. Laundry Machinery & Supply Co. Laundry Machinery
*Van, Jno. Range Co. (Stoves, Ranges, etc.), 5th & Broadway
*Vandewalle, Chas. & Co., Mt. Echo, mt. 6th
*†§Vanduzen, E. W. Co. (Pumps, Belt Fdrs., Gongs & Brass Castings), 428 E 2d
*Verdin, Kappes & Verdin (Sheet Metal Working Machy)
*Victor Safe & Lock Co. (Safes, Bank Vaults, etc.), 320 E 8th

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*Von Wyck Machine & Tool Co. (Machine Tools, Engine Lathes, etc.), Elmore & C. H. & D. R. R.
*Ward, Wm. E. & Co. (Bldrs.' Iron Work), 1347 Central av
*WARNER ELEVATOR MFG. CO. (Electric & Hydraulic Elevators), Spring Grove av & Alfred. (See adv. index, end of book)
*Watkins Motor Co. (Gas & Gasoline Engines, Laundry Machinery, etc.), 6th & Baymiller
*†Weir Frog Co. (Frogs, Switches, Crossings, etc.), Beach & Highland av, Norwood
*Western Automatic Machine Co. (Slot Machines), 29 E. 3rd
*Wilberding & Brandewiede, 216 E. Court
*†Willard Machine & Tool Co. (Presses, Tools, Dies, Machinery, etc.)
*§Williams, D. T. Valve Co. (Valves, Steam Traps, Steam Separators, etc.)
*Wolf Electrical Promoting Co. (Cloth Cutting Machinery), 810 Main
*Wolff Machinery Co., 424 Reading rd
*World Mfg. Co. (Stoves, Novelties, etc.)
*†Zering, H. Mfg. Co. (Trucks, Cars, Carts, Scales etc.)
Zering, H. Mfg. Co. (Trucks, Cars, Carts, Scales, etc.), 220 Charles

CIRCLEVILLE—*†Haswell Steel Range & Furnace Co. (Stoves, Ranges, etc.)
*†Lupton, W. S.
*Lutz, J. H. (Light & Specialty Machy., etc.)

CLEVELAND—*§Acme Brass Works (Plumers' Brass Goods), 2662 E 76th
†Acme Foundry Co. (Fine Light & Medium Grey Iron Castings)
*Acme Machinery Co. (Bolt, Nut & Rivet Machy.), 4533 St. Clair av., N. E.
§Adams-Bagnall Electric Co. (Arc Lamps, etc.)
*Adjustable Collet Co., 211 High av, S E
*§Aetna Brass Mfg. Co., 4800 Hamilton av
*Allen Machine Co. (Tapping Machines, etc.)
§Aluminum Castings Co. (Brass Founders, Aluminum, Brass & Bronze Castings)
*American Ball Bearing Co. (Ball Bearings, etc.)
*§American Brass Mfg. Co. (Brass Finish ers, etc.), 1521 E 49th st
*†American Fork & Hoe Co. (Forks, Hoes, etc.), American Trust bldg
*American Railway Signal Co. (Railway Signals & Switches, etc.), Lakeside av. & 45th
†American Range & Foundry Co. (Stoves, Ranges, Castings, etc.)
*†§American Shipbuilding Co. (Ships, Engines, etc.), 2017 Superior av
*American Steel & Wire Co. of New Jersey. (See Chicago)
*†American Stove Co. (Steel Ranges & Gas, Gasoline & Oil Stoves), Perkins av & C. & P. R. R.). (See St. Louis, Mo.)
*Anderson, V. D. Co. (Cylinder Dryers)
†Atlantic Foundry Co. (Iron Fdrs., etc.), 7105 Morgan, S E
*§Atlas Brass Mfg. Co. (Plumbers' Specialties), 326 Lakeside av., N. W.
*ATLAS CAR & MFG. CO. (Industrial Cars, Axles, etc.), 1289 Marquette rd, N E (See adv. index, end of book)
*Automatic Stamping Machine Co. (Machinists), 216 High av, S E
*Bardons & Oliver (Machine Tools, Turret Machines, etc.)
*BARTLETT, C. O. & SNOW CO. (Cement, Oat Meal & Paint Machy., etc.) French st. (See adv. index, end of book)
*Bellinger, James G. (Special Machinery, etc.), 1519 E. 32nd, N. E.
*Benson, Arza M. Co. (Barrel & Stave Machinery), 6303 Central av, S E
*§Bishop-Babcock-Becker Co. (Brass Fdrs., Pumps, Air Compressors, Faucets & Brass Goods, etc.)
*Bomgardner Mfg. Co. (Lowering Devices), 11810 Detroit av
*†§Born Steel Range Co. (Steel Ranges & Cooking Apparatus), 1984 W 25th, N W
*†Bowler Foundry Co. (Iron Fdrs), 1688 Columbus rd, N W
*†Brightman Furnace Co. (Iron Fdrs.), 2570 B'way
*Brightman Machine Co. (Power Transmitting machy.)
†Brooks, T. H. & Co. (Iron Fdrs. & Bldrs.' Iron Works), 3104 Lakeside av
*§Brookside Brass Foundry & Mfg. Co. (Brass Fdrs. & Finishers), 2315 Selzer
§Bronson-Walton Co. (Hardware Specialties, Coffee Mills, etc.), Collinwood
*†BROWN HOISTING MACHINERY Co. (Coal & Ore Handling Machinery, etc.), St. Clair, N E (See adv. index, end of book)
*†Browning Engineering Co. (Cranes, etc.)
*Bruce-Macbeth Engine Co. (Gas Engines)
§Buckeye Foundry & Pattern Co. (Brass Fdrs. & Finishers), 1807 Columbus rd
*Bultman, F. H. & Co. (Gear Cutting Machines, etc.), 2108 Superior
*Burton & Johnson (Machinists), 2301 Center, N W
*§Central Brass Mfg. Co. (Brass Fdrs. & Finishers, Plumbing Goods), 6203 Cedar av, S E
*Champion Machine & Forging Co. (Forgings & Machine Work)
*Champion Steel Range Co. (Steel Ranges, etc.), 4050 W. 25th
*†Chandler & Price Co. (Printing Presses & Machy.), 6000 Carnegie av, S E
*Chase Machine Co. (Engines, Towing Machines, etc.)
*§Chicago Pneumatic Tool Co. (Pneumatic Tools), 1241 E 49th, N E. (See Chicago, Ill.)
*Chisholm, Wm. & Sons (Coal & Ore Handling, etc.), 1588 E. 40th, S. E.
*†§CHISHOLM & MOORE MFG. CO. (Castings, Chain Hoists, etc.), Lake nr Kirtland. (See adv. index, end of book)
§City Brass Foundry Co. (Brass & Composition Castings), 5310 St. Clair av., N. E.
†City Foundry Co., 4629 Hamilton av
*City Machine Co. (Special Machy. & Macaroni Machy.)
*Cleveland Armature Works (Dynamos & Motors, Armatures, etc.), 4732 St. Clair av, N. E.
*Cleveland Automatic Machine Co. (Machine Tools)
*Cleveland Block Co. (Malleable Iron Tackle Blocks), 1173 W 11th, N W
*§Cleveland Brass Works
*†§Cleveland Bronze & Brass Works (Brass Fdrs. & Plumbers' Brass Goods), 4606 Hamilton av
*Cleveland City Forge & Iron Co., Lakeside av, opp E 45th, N E
†Cleveland Co-operative Stove Co. (Stoves)
*Cleveland Die & Mfg. Co. (Dies, etc.),
*§Cleveland Faucet Co. (Faucets, Air Compressors, Pumps, etc.), 708 Frankfort av., N. W.
*Cleveland Foundry Co. (Oil Stoves)
*Cleveland Frog & Crossing Co. (R. R. Frogs, etc.), 6917 Bessemer av., S. E.
*Cleveland Gas Meter Co. (Gas Meters, etc.), 2180 E. 65th, S. E.
*§Cleveland Gas & Electric Fixture Co., 940 Prospect av
*Cleveland Hardware Co. (Hardware)
*Cleveland Ice Machine Co., 1615 Merwin, N. W.
*Cleveland Lock Co. (Locks, Hdwe. Specialties, etc.), E. 38th & Hamilton av, N. E.
*Cleveland Machine Knife Co. (Machine Knives, etc.), 946 West. N. W.
*Cleveland Machine Tool Works (Machine Tools)
*Cleveland Machine & Mfg. Co. (Rolling Mill Work & Forgings), 4944 Hamilton av
*Cleveland Meat Chopper Co., 1232 E. 3rd, N. E.
*†Cleveland Planer Works (Machine Tools, etc.)
*Cleveland Pneumatic Tool Co. (Pneumatic Tools)
*CLEVELAND PUNCH & SHEAR Works Co. (Punching & Shearing Machy., Grey Iron Castings, etc.). (See adv. index, end of book)
*†Cleveland Steel Casting Co., E 69th & Hubbard av, S E
*Cleveland Steel Range Co. (Steel Ranges, etc.), Detroit & State
*Cleveland Tumbling Barrel & Mfg. Co., 65th & Erie R. R.
*CLEVELAND TWIST DRILL CO. (Twist Drills, etc.), Lakeside av & 49th. (See adv. index, end of book)
*Clough & Witt Machine Co., 1740 Columbus rd., N. W.
*§Cochrane, John A., 1403 E 40th, N E
*†Columbian Hardware Co. (Hdwe. & Specialties), 1296 E 53d
§Comstock-Wellman Bronze Co. (Aluminum, Brass & Bronze Castings)
*Cooper, Geo. & Co. (Carriage Springs, etc.), Western Reserve bldg
†Crucible Steel Casting Co. (Steel Castings)
*Cummer, F. D. & Son Co. (Asphalt, Brick Machinery, etc.), The Arcade
*§Daykin Bros. (Pumps), 1606 W. 25th, N. W.
*De Mooy Bros. (Gas Engines, etc.), 1831 E. 55th, N. E.
*Duplex Hanger Co. (Joist & Wall Hangers), 1247 Marquette N E
*†Duplex Mfg. & Foundry Co. (Catch Basins & Sewer Castings)
*Dyer Co. (Sugar Mach'y), New England bldg
*†Eberhard Mfg. Co. (Saddlery Hdw. & Specialties)
†Economy Stove Co. (Gas Ranges, etc.), 2146 Scranton rd
*Edmonds Elevator Co. (Elevators), 519 Champlain
*Electric Controller & Mfg. Co. (Magnetic Clutch Driver), 2698 E. 79th, S. E.
*Elliott Bros. Electric Co. (Dynamos, etc.), 3864 Hamilton av., N. E.
*Elliott, S. K., Electric Co. (Electrical Machinery), 322 Champlain
*Elwell-Parker Electric Co. of America (Generators & Motors, etc.), 4222 St. Clair av, N E
§Empire Brass Mfg. Co. (Brass Fdrs. & Fnshrs., Plumbers' Goods), 8410 Lake av
*Empire Plow Co. (Plows), 3164 E 65th
*Eureka Machine Co. (Brewers' & Maltsters' Machinery), 2610 Vega av
*Evers Iron Works (Special Machy)
*†Fanner Mfg. Co. (Chaplets, Novelties, Brass Beds, etc.)
§Farnan Brass Works (Brass Fdrs. & Finishers, Steam & Plumbing Goods), 1104 Center, N. W.
*†§Ferro Machine & Foundry Co. (Marine Gas Engines & Grey Iron Castings)
*†Ferrosteel Co. (Hot Air Registers, etc.), 425 Prospect av, N W
*Fitzsimons & Co. (Polished Steel Shafting, etc.), 2496 B'way, S E
*Fix's Sons (Steam Flue Welding, etc.), Leonard & Winter
*Foote-Burte Co. (Machine Tools), 4101 St. Clair
§Forest City Electric Co. (Electric Specialties), 5003 Windsor av, N E
†Forest City Fdy. & Mfg. Co. (Hot Air Furnaces, Grey Iron Castings, etc.)
*Franke, H. Steel Range Co. (Steel Ranges, etc.), 1911 Harvard
§Gas Fixture & Brass Co., 318 High av
*Gas Machinery Co., Citizens' bldg. Works, Collinwood, O.
*Geier, P. A. Co. (Machinery, etc.), 5112 St. Clair av., N. E.
†Fulton Foundry Co. (Grey Iron Castings)
*Gerlach, Peter Co. (Pail, Keg, Barrel & Shingle Mill Machinery, etc.), Columbus rd & Winter
*§Glauber Brass Mfg. Co. (Brass Fdrs. & Finishers, Plumbing Goods), 4917 Superior
*GLOBE MACHINE & STAMPING Co. (Special Machinery & Parts), 3868 Hamilton av. (See adv. index, end of book)
*†Grabler Mfg. Co. (Grey & Malleable Iron Castings, Plumbers' Specialties etc.)
*Grant Automatic Machine Co., 1271 Marquette rd
*Grant-Lees Machine Co. (Gear Cutting Machy., etc.), 6901 Quincy av., S. E.
*Gregg Mfg. Co. (Foundry Machinery, etc.), 1318 W 4th
*Hart Mfg. Co. (Pipe Cutting & Threading Machines), E. 3rd & St. Clair
*Hartz, Henry V. & Co. (Special Mach'y, etc.), 2225 Ashland rd, S E
*Hewitt, E. A. & Co. (Machinists), 1232 E 3d
*†Hill Clutch Co. (Power Transmitting Machinery, etc.)
*Hohlfelder, F. Co. (Hdw. Specialties, Metal Beds, etc.)
*Homer Commutator Co. (Commutators & Machinists), 4748 Hough av
*Horsburgh & Scott Co. (Gears & Pinions, etc.), 5114 Hamilton
§Hunger & Scheidegger (Brass Fdrs.), 928 Champlain
*Hunt & Dorman Mfg. Co. (Tin, Sheet Iron, Brass & Copper Work, etc.), 2100 Superior av, N E

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§Ideal Bronze Co. (Brass & Comp. Castings, etc.), 1263 E 55th
*Ideal Toal & Specialty Works (Special Machy.)
*Imperial Steel Range Co. (Steeyl Ranges, etc.), 2900 Detroit av
*Independent Register & Mfg. Co. (Registers, Gas Heaters & Specialties), 1415 W. 9th, N. W.
*Industrial Machine Co., 113 St. Clair av, N E
*§Industrial Pattern & Bronze Co. (Brass & Bronze Castings, Patterns, etc.), 988 E 67th, N E
†*Interstate Foundry Co. (Light & Heavy Grey Iron Castings), 3163 E 61st, S E
*Jackson, C. E. & Co. (Machinists), 2098 W 3rd
*†Johnston & Jennings Co. (Cranes, Castings, Power Hammers & Rolling Mill Machinery)
*†§Kilby Mfg. Co. (Nail, Wire, Rolling Mill & Sugar Machinery, Heavy Castings, etc.)
*King Bridge Co. (Coal & Ore Handling Machy.), Head of E 69th
*Kirk, Latty Mfg. Co. (Bolts, Screws & Children's Steel Express Wagons & Velocipedes, etc.), Madison av, nr W 85th
*Knight, J. C. & Son, 2192 E 65th
*Konigslow, E., Stamping & Tool Works (Dies, etc.), 325 Champlain av., N. W.
*Laganke, Robt. F. (Machinist), 600 Huron rd, S E
§Lake Erie Smelting & Refining Co.
*Lamson & Sessions Co. (Bolts, Rivets, Wrenches, etc.), 2188 Scranton rd., S. W.
Langenau Mfg. Co. (Brass & Iron Hdw. Specialties), Franklin, opp W 84th
*Lincoln Electric Co. (Dynamos & Motors)
*†§Loew Mfg. Co. (Brewers' & Bottlers' Machinery & Specialties)
*Long-Arm System Co. (Ship Fittings, etc.), 1233 E 38th, N E
*Lord, Bowler & Co. (Stone Working & Wood Extract Machy., etc.), 1004 Centre, N W
*Lucas Machine Tool Co. (Machine Tools, etc.)
*M. & G. Machine Co. (Special Machy., etc.), 3918 Superior av, N E
McMyler-Interstate Co. (Cranes, Quarry & Contractors' Machinery, Hoisting, Conveying & Special Machinery, Steel Structural Works, etc.), 1799 Columbus rd
†Madison Foundry Co. (Light & Heavy Machinery Castings, Grate Bars, Columns, Sewer Castings, etc.)
*Mather & Waechter (Machinists), E 105th & Quebec av
*Miller Chemical Engine Co., 1516 Columbus rd
*§Monarch Brass Co. Plumbers' Brass Goods), 4607 Payne av
§Morreau Gas Fixture Mfg. Co. (Gas & Elec. Fixtures, 1303 Oregon av., N. E.
*Murphy & Donnelly Boiler Co., 2511 Elm, N. W.
**§NATIONAL - ACME MFG. CO.** (Screw Machines, etc.) See adv. index, end of book)
*National Adding Machine Co. (Adding Machines)
†National Car Wheel Co. (See Pittsburg, Pa.)
†National Malleable Castings Co. (Malleable Iron Castings for R. R., etc.)
*National Mfg. Co. (Hdwe. Specialties), The Arcade
*National Safe & Lock Co., 2341 E 69th
*North Electric Co. (Switch Boards & Telephone Supplies), 408 St. Clair
*Ohio Blower Co. (Blowers, Steam Separators, etc.), 326 Prospect av, N W
*Ohio Ceramic Engineering Co. (Brick & Clay Machinery), Berea rd
*Ohio Electric Works (Dynamos, etc.), 6304
†Ohio Fdry. Co. (Iron Fdrs.) Ellen
*Oram, Jno. S. (Barrel, Stave & Heading Machinery), 1324 E 53d
*Oster Mfg. Co. (Pipe Cutting & Threading Machines), 2057 E 61st Pl
***OTIS ELEVATOR CO., 629 Johnson av, N W.** (See New York City) (See adv. index, end of book)
*†Otis Steel Co. (Steel Castings, etc.), 3131 Lakeside av
*†Palmers & De Mooy Foundry Co. (Grey Iron Castings & Machine & Brass Pattern Shop), Leonard & Winter
*†Peck, Stow & Wilcox Co., W 3d c Cuyahoga av, S W. (See Southington, Conn.)
*§Peerless Motor Car Co., E 93d & Quincy av, S E
*Plotz, Wm. (Tools, etc.), 401 Champlain av., N. W.
*§Regar Co. (Plumbers' Brass Goods, etc.), 919 West, N. W.
*Reliance Electric & Engineering Co. (Electric Motors, etc.), Cleveland, O.
*Reliance Gauge Column Co. (Steam Specialties, etc.)
§Rickersberg Brass Co. (Plumbers' Brass Goods)
*Round, David & Son (Hoisting Machinery)
*§Royal Brass Mfg. Co., 3920 Superior
*§Russ, A. E. Mfg. Co. (Anvils, Vises, Drills), 6813 Wade Park av
*Sabin-Curtis Machine Co. (Special Machinery, etc.), 5714 Euclid av
§Sanitary Co. (Brass Fdrs. & Finishers, Plumbing Goods), 1120 Prospect av, S E
*Sawyer Gear Works, 5122 St. Clair av., N. E.
§Schneider & Trenkamp Co. (Div. American Stove Co.) (Gas Heaters, Ranges, etc.), 1787 E 40th
†Semi-Steel Co. (Brick Machy., etc.), New England Bldg
*Sly, W. W. Mfg. Co. (Foundry Supplies, etc.), Train av, cor Junction
*Smith, W. A. & Co. (Hot Air Furnaces), 625 Champlain av, N Y
*Spotless Steam Sponger Co. (Sponging Machines), 2124 E 2d
*§Standard Brass Foundry Co. (Brass Fdrs.)
†Standard Car Wheel Co. (Car Wheels), Bessemer av nr Tod
*†Standard Foundry & Mfg. Co. (Light Grey Iron Castings, etc.)
*†Standard Lighting Co. (Div. American Stove Co), Gas Ranges, etc.)
*Standard Machine Co., 1730 Columbus rd., N. W.
*Standard Pump & Engine Co. (Gas & Gasoline Pumping Engines), 522 Prospect av., N. W.
*Standard Sand & Machine Co. (Sanding Machines, etc.), 5151 St. Clair av., N.E.
*†Standard Sewing Machine Co. (Sewing Machines), 6402 Cedar av., S. E.
*†Standard Steel Range & Mfg. Co., 2717 E. 75th
***STANDARD TOOL CO. (Twist Drills, etc.), 6900 Central av.** (See adv. index, end of book)
†Superior Foundry Co. (Iron Fdrs.)
*†Taylor & Boggis Foundry Co. (Iron Stoves, Ranges, etc.), 1913 W 3d
*Tinnerman Steel Range Co. (Steel Ranges, etc.)
†Tyler, W. S. Co. (Foundry & Iron & Brass & Wire Work), 3618 St. Clair
*Union Engineering Co., 1616 Columbus rd., N. W.
§United Brass Mfg. Co., 3844 Hamilton
§United State Bronze Co., 1831 Columbus rd
*†United States Cast Iron Pipe & Foundry Co., ft E 26th. (See New York City)
*†Van Dorn Iron Works Co. (Structural & Cast Iron Work), 2685 E 79th
*Van Dorn & Dutton Co. (Cut Gears, Pinions, Racks, etc.), 2714 E 79th, S E
*Variety Iron & Steel Works Co. (Rolling Mill Machinery, Castings, etc.)
*Waldeck, Anthony (Wire Dies, etc.), 7607 B'way
*†Walworth Run Foundry Co. (Warm Air Registers, Hdw. Specialties & Grey Iron Castings), 2488 W 27th, N W
*Ward Machine Co. (Marine Work a Specialty), 518 Prospect av, N W
*Warner & Swasey Co. (Machine Tools, etc.)
*§Weber, L. A. Co. (Brass Goods, etc.), 517 Huron rd
*†Wellmann-Seaver-Morgan Co. (Cranes, Rolling Mill & Coal Handling Machy.)
*Werner, Emil (Machinist, Molds, Dies & Tools), 1232 E 3d
†West Steel Casting Co. (Steel Castings), 805 E 70th
*†§Westinghouse Electric & Mfg. Co. (See Pittsburg, Pa.)
*†White Co. (Sewing Machines, Automobiles, etc.)
*†§Winton Motor Carriage Co. (Automobile Builders), Berea rd & Madison av
*†Woodworth-Enugert Co. (Cara Wheels, etc.), 4926 Hamilton av
*Worden Tool Co. (Machine Knives), 1854 Scranton rd., N. W.

CLYDE—†James Foundry Co. (Car Couplers)

COLLINWOOD—*†Damascus Brake Beam Co. (Brake Beams, etc.)
*Gas Machinery Co. (See Cleveland, O.)
*Kuhlman, G. C. Car Co. (Electric Car
*§L. S. & M. S. R. R. Shops Bldrs.)

COLUMBIANA — *†§Columbiana Pump Co. (Steam Pumps, etc.)
*†Enterprise Mfg. Co. (Steam Engines & Saw Mill Machinery, etc.)

COLUMBUS—*§American Cash Register Co. (Cash Registers)
*American Water Motor Co. (Water Motors)
*Art Franklin Stove Co. (Stoves, etc.)
§Atlas Brass Foundry Co.
*Bauer, A. G. (Jobbing)
*Beebe, A. N. & Son (Pumps, etc.)
†Bonney-Floyd Co. (Steel Castings)
*Brightman Mfg. Co. (Shafting Machy. & Polish Shafting)
*§Brown, Jno. W. Mfg. Co. (Lamps & Brass Fdrs.)
*Bryant Steel Wheel & Rim Co. (Steel), Wheels & Rims, etc., Automobiles
*§Buckeye Pump & Mfg. Co. (Pumps, etc.)
*Buckeye Saw Mfg. Co. (Saws, etc.)
*†Buckeye Steel Castings Co. (Car Couplers, etc.)
*Budd & Ranney Mfg. Co.
†Carlisle & Shilling Bros. Foundry Co.
*†Case Crane Co. (Cranes, etc.)
*Ceramio Supply & Const. Co.
*†Chase Foundry & Mfg. Co. (Industrial Cars, Trucks, etc.)
*Columbus Anvil & Forging Co. (Anvils, Forging, etc.)
*Columbus Auto Brass Co. (Automobile Brasses, etc.)
*Columbus Auto Parts & Machine Co.
*§Columbus Brass Co. (Brass Fdrs. & Finishers, Plumbing Goods)
*Columbus Die, Tool & Machine Co. (Dies, Tools, Special Machinery, etc.)
*Columbus Forge & Iron Co.
*Columbus Heating & Ventilating Co. (Hot Air Furnaces, etc.)
*†Columbus Machine Co. (Gas & Gasoline Engines, etc.)
*†Columbus Malleable Castings Co. (Malleable Iron Fdrs., etc.)
*Columbus Plow Co. (Agl. Implts.)
*Columbus Pneumatic Tool Co. (Pneumatic Tools)
*Columbus Scale & Repair Co.
*†Columbus Steam Boiler & Heater Co. (Boilers, Heaters, etc.)
*Columbus Steam Pump Works (Steam Pumps), 85 W Broad
*Columbus Wire & Iron Works
*Dixon, A. S .(Jobbing)
*Eaton Machine Works (Repair Work of All Kinds), 98 W Broad
*§Federal Mfg. Co. (Gas Fixtures & Brass Finishers)
*Foster Gear Co.
*Hamilton Mfg. Co. (Coal Loaders, etc.)
*Harrington, J. H. (Jobbing)
*Hayden Automatic Block Machine Co.
*†Hayden, P. Saddlery Hardware Co. (Iron Fdrs., Saddlery Hardware & Castings, etc.)
*Hearn, J. C. Machine Works (General Jobbing)
*†Hertenstein, M. Co. (Stoves & Ranges)
*§Hocking Valley Ry. Shops
*Hoover, J. B. (Machinists & Surgical Instruments)
*Ideal Heating Co. (Machine Works)
*Jaeger Machine Co. (Concrete Mixers)
*†§**JEFFREY MFG. CO. (Elevating & Conveying, Grain Elevator Appliances, Mining. Phosphate Mill, Power Transmission, etc.),** E 1st av & Big Four R. R. (See adv. index, end of book)
*Kilbourne & Jacobs Mfg. Co. (Plows, Trucks, Cart & Road Scrapers, etc.)
*†Kinnear Mfg. Co. (Rolling Steel Shutters,
*Kinnel Edge Tool Forging Co. etc.)
*†Lattimer Stove Co. (Stoves, etc.)
*§Lilley, M. C. & Co. (Regalia & Lodge
†Loudenslager, H. Foundry Co. Supplies)
*Lowe Bros. Machine Works (Gasoline Engines, 1½ to 400 H. P.)
†McDonald Bros. (Small Grey Iron Castings)
*Miller Machine & Mold Works
*Morris, C. E. Co. (Bldrs. & Structural Iron
*Morris, J. E. (Jobbing) Work)
†O'Brien Bros., 276 W Main
*Ohio Elevator & Machine Co.
*†§Ohio Malleable Iron Co. (Malleable Castings)
*§Ohio Pump & Brass Co. (Air Pumps, Brass, Bronze & Aluminum Castings)
*†Ohio State Stove Co. (Stoves & Ranges)
*Ohio Tool Co. (Tools, Planes, etc.)

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*Ohlen, Jas. & Sons Saw Mfg. Co. (Saws, etc.)
*Okey & Company (Pumps, etc.)
*†Peerless Stove & Range Co. (Stoves & Ranges)
*†Poulton, Edwin (Grey Iron Castings)
*†Ralston Steel Car Co. (Steel Cars of All Kinds)
*Quad Stove Mfg. Co. (Gas Stoves & Ranges)
*Robinson, S. W. & Co. (Machy. Bldrs.)
*Rockey, D. R. (Pumps)
†Schreyer, G. Co. (Furnace Mfrs.)
§Scioto Brass Foundry
*Seagrave Co. (Fire Dept. Apparatus), High, nr H V R R
*Simpson, Alfred (Jobbing)
*Smith & Williams
*Spillman & Phalor (Gas Engines)
§Standard Bronze & Brass Co.
*Standish Machine & Supply Co.
*Sheets Mfg. Co. (Machy. Mfrs.)
*Smith & Williams (Machinists)
*South Side Machine Co. (Jobbing, etc.)
*Sun Mfg. Co. (Cash Registers & Coffee Mills, etc.)
*Tippett Mfg. Co. (Machy. Mfrs.)
*Turnbull Mfg. Co. (Machy. Mfrs.)
*†United States Cast Iron Pipe & Foundry Co. (See New York)
*Weinman Pump Mfg. Co. (Pumps & Air Compressors)

COLUMBUS GROVE—*Benroth Bros.

CONNEAUT—*§Conneaut Co. (Gas & Electric Fixtures)
*Webb, W. H. & Son (Machinist)

CORNING—†Richardson, Jno. (Iron Fdry., etc.)

COSHOCTON—*Automatic Polishing Machine Co.
*Hay Houston Axle Co. (Carriage Axles, etc.)
*†Keagy & Lear Machine Co. (Carriage Axles & Special Machinery)
†King, W. H.

CRESTLINE—*†Burch Plow Works Co. (Plows, Sewer Castings, etc.)
*†Crestline Mfg. Co. (Seamless Brass Pump Cylinders, etc.)
*†Schill Bros. Co. (Steel Ranges, Furnaces, Castings, etc.)

CUYAHOGA FALLS—*†§Falls Clutch & Machinery Co. (Power Transmitting Machinery, etc.)
*Falls Hollow Staybolt Co. (Staybolts, etc.)
†§Nute Foundry Co.
*†Turner, Vaughn & Taylor Co. (Chain, Rubber, Wire Machinery, etc.)

DAYTON—†Advance Foundry Co.
*Amer, Fred C. (Machinist)
*American Bolt & Screw Case Co.
*†American Fence & Forge Co. (Bldrs. Iron Work, etc.)
†American Foundry & Casting Co.
†Barney & Smith Car Co. (Cars & Car Wheels, etc.)
*Bates, D. L. & Bro. Co. (Electric Fans & Motors, etc.)
*†Brownell Co. (Steam Engines, etc.)
*†§Buckeye Iron & Brass Works (Brass & Iron Fdrs. & Oil Mill Machy.)
*†Callahan, W. P. Co. (Inc.) (Iron Fdrs. & Engines & Oil Mill Machy., etc.)
*Computing Scale Co. (Computing Scales)
*†§Davis Sewing Machine Co. (Sewing Machines, Screw Machines, etc.)
*Dayton Electrical Mfg. Co. (Dynamos, etc.)
*Dayton Fan & Motor Co. (Fans, Water Motors, etc.)
*†Dayton Globe Iron Works Co. (Turbine Water Wheels & Paper & Pulp Mill Machy., Power Transmitting Machy.,
*Dayton Ice Machine Co. etc.)
*Dayton Machine & Tool Works (Machine Tools)
*Dayton Machine Works (Special Machin-
*†Dayton Malleable Iron Co. ery, etc.)
§Dayton Mfg. Co. (Brass Fdrs., Railroad Supplies, etc.)
*Dayton Pattern Works (Models, etc.)
*Dayton Pipe Coupling Co. (Pipe Couplings, Saddles, Sleeves, etc.)
*Dayton Pitless Scale Co. (Scales)
*Dayton Pneumatic Tool Co. (Pneumatic Tools)
*Dayton Specialty Machine Co. (Machinists)
†Dayton Steel Foundry Co. (Crucible Steel Castings)
§Dennick, Wm. & Co. (Brass Fdrs.)
*Edgemont Machine Co. (Friction Clutches,
*Egry Autographic Register Co. etc.)
*Foglesong Machine Co. (Horsecollar Ma-
*Garrison Machine Works chinery)
*†Gem City Stove Co. (Stoves, etc.)
§Hoban Brass Foundry Co.
*†Joyce-Cridland Co. (Hydraulic Lever & Screw Jacks, etc.)
†Kramer Bros.' Foundry Co. (Iron Fdrs., Labeling Machines, etc.)
*†Kuhns Bros. (Cast Iron Fittings, etc.)
*Legler & Eilerman Co. (Machine Parts, Finished & White Metal Castings)
*Lucas Pump Co. (Power Pumps, etc.)
*McCormick Mfg. Co. (Spraying Pumps, Hose Nozzles, etc.)
§Miami Brass Foundry (Brass Fdrs.)
*Miami Valley Machine Tool Co. (Engine Lathes, etc.)
*§National Cash Register Co. (Cash Registers, etc.)
*National Hot Air Furnace Co. (Machinists, Furnaces, etc.)
*National Laundry Machinery Co. (Laundry Machy., etc.)
*New Era Gas Engine Co.
*†§Ohio Rake Co. (Agl. Implts., Sulky
*Ohmer Fare Register Co. Rakes, etc.)
*Parrott Mfg. Co. (Plows, etc.)
*Pasteur-Chamberland Filter Co. (Filters)
*†§Platt Iron Works Co. (Turbines & Machinery, etc.)
*Plocher, Andrew (Forgings, etc.)
*Recording & Computing Machine Co. (See Cincinnati, O.)
*†Raymond, C. W. Co. (Clay Working Mach'y)
*Roberts, Geo. J. Co. (Steam Pumps, etc.)
*†Seybold Foundry Co.
*†Seybold Machine Co. (Bookbinding Machinery)
*Simonds, A. A. & Son Co. (Planing
†§Standard Foundry Co. Knives, etc.)
*Steiner, M. & Co.
*Trimbach, Geo. (Tools, etc.)
*Vaile & Kimes (Water Motors)
*Weiman, C. J. & Co. (Machinists)
*Wiedeke, Gustav & Co. (Boilermakers' Tools, etc.)

DEFIANCE—*American Steel Package Co. Steel Specialties, etc.)
*†Defiance Machine Works (Wood Working Machinery, etc.)

DELAWARE—*Cook Motor Co. (Gasoline Engines)

DELPHOS—*†§Delphos Foundry & Mfg. Co.
*Swink Printing Press Co. (Printing Presses)

DELTA—*Buckeye Gas Engine Co. (Gas Engines, etc.)

DENNISON—†Dennison Foundry & Engineering Co.

DESHLER—*†§Suber, A. A.

DOYLESTOWN—*§Buckeye Aluminum Co.
*†Sieberling & Miller Co. (Mowers, Reap-

DRESDEN—*Dresden Machine Co. ers, etc.)

EAST LIVERPOOL—*Cain Bros. Foundry & Machine Co. (Machinists)
*†East Liverpool Foundry, Machine & Supply Co.
*†Patterson Fdy. & Machine Co. (Clay Working Machy., etc.)

EAST PALESTINE—*Roberts Machine Co.

EATON—*Eaton Gas Engine Co. (Gas En-
*†Ohio Iron & Brass Bed Co. gines)

ELMORE—*Multiplex Concrete Block Machine Co. (Concrete Block Machy.)

ELYRIA—*Beal, Wm. L.
*Dean Electric Co. (Telephone & Electrical Supplies)
*†Duplex Mfg. & Foundry Co. (Catch
†§Elyria Foundry Co. Basins, etc.)
*Elyria Gas Power Co. (Gas & Gasoline Engines, etc.)
†Fox Furnace Co. (Stoves, Furnaces, etc.)
*Fuller Mfg. Co. (Wood Fibre Machinery)
§*Garford Co. (Inc.) (Automobile Parts, etc.)
*§Machine Parts Co. (Brass Castings & Machine Screw Products)
*Toppliff & Ely Co. (Carriage Hdw., etc.)
*†Weller Engineering Co.
*Western Automatic Machine Screw Co. (Tapping Machines, etc.)
*Worthington Co. (Bicycles, Tricycles, etc.)

EUCLID—*Euclid Crane & Hoist Co. (Electric Cranes & Hoists, etc.)

FINDLAY—*†Adams Bros. Co. (Machinery & Oil & Gas Well Supplies)
*Buckeye Traction Ditcher Co. (Trench Excavating Machy.)
*†Findlay Axe & Tool Co.
*Hoppenburg, Pauline
*†Marvin, D. E.
*Went, C. H.

FOSTORIA—*†§Atlas Mfg. Co.
*Copley Machine Co.
*Western Railway Signal Co. (Railway Signals, etc.)

FREDERICKSTOWN—*†Foote, J. B. Foundry Co. (Bells, Vises & Hardware Specialties)
*†§Zieg, F. B., Mfg. Co. (Road Graders, Hdwe. Specialties, etc.)

FREEPORT—*†National Light & Heating Co. (Stoves & Gas Generators)

FREMONT—*Christy Knife Co. (Knives, etc.)
*Clauss Shear Co. (Shears, etc.)
*Detroit Model Machine Co.
*Herbrand Co. (Carriage Hardware & Forgings, etc.)
*International Cutlery Co.
*Jackson Shear & Razor Co.
*§Lake Shore Elec. Ry. Shops
*†§Lehr Agricultural Co. (Cultivators, Harrows, etc.)
†Lincoln Stove & Range Co. (Stoves, Ranges, etc.)

GALENA—*Hughes & Smythe (Corn Planters, etc.)

GALION—*†Freese, E. M. & Co. (Brick & Drain Tile, Machinery, etc.)
†Galion Iron Works (Culvert Pipe, etc.)
*Perfection Road Machinery Co. (Road
*Sponhaüer, H. C. Machy.)

GALLIPOLIS—†Thompson & Francis Stove Co.
†Treasure Stove Co. (Stoves) (Stoves)

GENEVA—§*Champion Safety Lock Co. (Hardware Specialties, Brass & Comp. Castings)
*†Geneva Metal Wheel Co.
*Potter Mfg. Co. (Hdwe. Specialties)

GREENVILLE—*†Ross Supply Co. (Pumps, Windmills, Grey Iron Castings, etc.)
*Wogoman Mfg. Co. (Gas Engines)

HAMILTON—*†American Foundry & Machine Co.
*American Frog & Switch Co. (Frogs, Switches, Switch Stands, Crossings, etc.)
*Bentel & Margedant Co. (Wood Working Machinery, etc.)
*†§Black-Clawson Co. (Paper & Pulp Mill, Special Machy., etc.)
*†Central Foundry Co. (Grey Iron Castings, etc.)
*†Deuscher, H. P. Co. (Agrl. Implts., etc.)
*Empire Machine Co. (Traction Engines)
*†§Estate Stove Co. (Stoves, Ranges, etc.)
*Hamilton Autographic Register Co. (Registers, etc.)
†*Hamilton Caster Mfg. Co. (Casters, etc.)
*§Hamilton Copper & Brass Works (Brewing & Distilling Apparatus, etc.)
†Hamilton Foundry & Machine Co.
*†Hamilton Machine Tool Co. (Machine Tools)
*†Herring-Hall-Marvin Safe Co. (Bank Vaults & Safes, etc.)
*†HOOVEN, OWENS, RENTSCHLER Co. (Steam Engines, Turbines, Grey Iron Castings, etc.). (See adv. index, end of book)
*Krauth & Benninghofen (Machinists)
*†LONG & ALLSTATTER CO. (Agl. Implts. & Punching & Shearing Machy.) (See adv. index, end of book)
†Miami Foundry Co. (Grey Iron Castings)
*Mosler Safe Co. (Bank Vaults & Safes, etc.)
*†§Niles-Bement-Pond Co. (Machine Tools, etc.) (See New York City)
†Peerless Foundry Co.
†Phoenix Caster Co. (Furniture Casters)
*§Sanitary Mfg. Co. (Plumbing Goods)
†Sohn & Rentschler (Iron Fdrs., etc.)
*Triumph Laundry Machine Co. (Laundry
†Victor Foundry & Mfg. Co. Machinery)
*West Side Motor Co. (Motors, etc.)

HARRISON—*†Campbell Corn Drill Co. (Agl. Implts., Corn Drills, etc.)

HILLSBORO—*†Bell, C. S. Co. (Cane & Feed Mills, Stoves, Farm Bells, etc.)
*†Gross-Feiber Co. (Safes, etc.)

IRONTON—*Belfont Iron Works Co. (Machine Shop for Use of the Company)
†Foster Stove Co. (Stoves)
*Glendenning & Barker.
*†Ironton Engine Co. (Steam Engine,
*†§Ironton Malleable Co. etc.)
*†Olive Foundry & Machine Co.

JACKSON—*†Crown Pipe & Foundry Co. (Cast Iron Pipes, etc.)
*Jackson Mfg. Co. (Garden Plows, etc.)

JOHNSTOWN—*Rusler & Duckworth (Pumps)

KENT—§Miller, J. B., Keyless Lock Co. (Locks)
*†Peterson Mfg. Co. (Agrl. Implements)

KENTON—*†§CHAMPION IRON CO. (Builders' Iron Work & Castings) (See adv. index, end of book)
*Dow, Jas. M. (Machinist)
*Kenton Gas Engine Co. (Gas Engines, etc.)
*†§Kenton Hardware Mfg. Co. (Locks, Iron Toys, etc.)

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*Ohio Machine Tool Co. (Machine Tools.
KILBOURNE—*Scott Bros.
KINSMAN—*†§Kiddle, Richard H.
LAKEWOOD—*Lakewood Wash Tray Co. (Plumbers' Specialties, etc.)
LANCASTER—*†§Alten's Fdy. & Machine Works
*†Eagle Machine Co. (Agl. Implts.)
*†Hocking Valley Mfg. Co. (Agl. Implts., etc.)
LEETONIA—*Buckeye Tool Co. (Mining Tools, etc.)
*†Crescent Machine Co. (Wood Working Mach'y)
†Leetonia Boiler Co. (Blast Furnace Work, etc.)
LEXINGTON—*Smith Gas Power Co (Suction Gas Producers)
LIMA—*Buckeye Machine Co. (Gas Engines)
*†East Iron & Machine Co. (Asphalt Paving Plant Machy., Bldrs.' Iron Work & Iron Castings)
*†Golley & Finley Iron Works
*Gramm Motor Car Co. (Automobile Builders)
*†§Lima Locomotive & Machine Co. (Locomotives, etc.)
*†Ohio Steel Foundry Co.
§White, Joseph
LISBON—*Wright Mfg. Co. (Machy., etc.)
LOGAN—*†§Logan Foundry & Machine Works (Plows, etc.)
LORAIN—*†American Shipbuilding Co. (See Cleveland, O.)
*Brunk Machine & Forging Co.
*†Dunstan Mfg. Co.
*†Hoffman Heater Co. (Heaters, etc.)
†§Lorain Casting Co. (Iron & Brass Cast-
*Lorain Machine & Forge Co. ing, etc.)
*National Stove Co. (Am. Stove Co.) (Stoves, Heaters & Ranges)
*†§National Tube Co. of Ohio (Grey Iron & Brass Castings)
*Thew Automatic Shovel Co. (Steam Shovels, etc.)
*§Union Brass & Iron Works (Iron & Brass Castings)
LOUDONVILLE—*Sprang, Wm.
LOUISVILLE—*Louisville Machine Works
MADISON—*†Genung, C. W. (Agrl. Implts.)
MALTA—*†Brown-Manly Plow Co. (Agrl. Implements, etc.)
MALVERN—*†Stoltz & Schrieber (Iron Fdrs & Machinists)
MANSFIELD—*†Aultman & Taylor Machinery Co. (Agrl. Implts., Traction Engines, etc.)
*†Babcock & Wilcox Co. (Water Tube Boilers & Castings) (See New York City)
*Barnes Mfg. Co. (Pumps, etc.)
*Barr Cash & Package Carrier Co. (Cash & Package Carriers)
*†Baxter Stove Co. (Stoves)
§Berry, J. H.
*§Browning Mfg. Co.
*Browning, V. R. & E. H. (R. R. Cranes, etc.)
§Buckeye Tempered Copper & Brass Co.
*†Eclipse Stove Co. (Stoves)
*Fernyak & Stavenik Machine Co. (Engines, Tools & Dies)
*†§Humphryes Mfg. Co. (Enameled Iron Bath Tubs, Pumps, Cocks & Ribbs, etc.)
*IDEAL ELECTRIC & MFG. CO. (Electric Machinery, etc.) (See adv. index, end of book)
*Lean, Roderick Mfg. Co. (Harrows, Land Rollers, etc.)
§Mansfield Brass Foundry Co. (John H. Berry, Prop.)
†Mansfield Foundry Co. (Grey Iron Castings)
†§Mansfield Tempered Copper Co. (Brass & Bronze Castings, etc.)
*North American Watch Co.
*†New Method Co. (Gas Stoves, etc.)
*†§Ohio Brass Co. (Electric Railway & Steam Specialties)
*Phoenix Electric Co. (Dynamos & Motors.
§Safety Cylinder Valve Co. etc.)
*†Union Foundry & Machine Works (Agrl. Implts.)
MARIA STEIN—*†New Idea Spreader Co. (Agrl. Implts., etc.)
MARIETTA—*Cline Bros. Machine Works
*Leidecker Tool Co. (Well Drilling Machinery, etc.)
*†§Marietta Mfg. Co. (Stoves)
†Nye, A. T., & Son Co. (Stoves)
*†§Pattin Bros. Co. (Steam Engines & Grey Iron & Brass Castings)
*Salzman, G O.
*Star Roofing & Machine Co.
MARION—†American Malleable Casting Co.
*Berry Electrical Mfg. Co. (Lightning Arresters)
*†§Fairbanks Steam Shovel Co. (Steam Dredges, Traction Engines, Ditching Machines, etc.)
*†§Huber Mfg. Co. (Agrl. Implts., Engines, etc.)
*Marion Shovel & Dredge Co. (Steam Shovels, Dredges, etc.)
*†§Marion Steam Shovel Co. (Dredging, Excavating, etc.)
*Ohio Tractor Mfg. (Traction Engines, etc.)
*Titus Machine Works (Drill Presses, Vises, etc.)
MARKLE—*†Conn, Geo. L. Foundry Co.
MARTIN'S FERRY—*McDermott Tool Works
†Spence-Baggs Stove Co. (Stoves)
*Stanton Heater Co. (Furnaces, etc.)
MARYSVILLE—*†Turner, Richard
MASSILLON—*†§Hess, Snyder Co. (Pulleys,
*Kimble & Segner Furnaces & Stoves)
*Massillon Engine & Thresher Co. (Engines, Thresher, etc.)
†Massillon Foundry Co. (Iron Fdrs.)
*†Massillon Foundry & Mach. Co. (Steam Hammers, etc.)
*†Massillon Iron & Steel Co. (Cast Iron Pipe & Heavy Castings, etc.)
*†§Russell Engine Co. (Engines & Machinery Castings)
*†§Russell & Co. (Engines, Threshers & Saw Mills)
MECHANICSBURG — *Packham-Crimper Co. (Sheet Metal Workers' Machinery &
MEDINA—*†Medina Foundry Co. (Castings, etc.)
MIAMISBURG—§Allen, D. H. & Co. (Specialties)
*†Hoover & Gamble Co. (Twine & Cordage Machinery & Agl. Implts.)
*Kauffman, J. A. (Trip Hammers)
*Shuey, Frank (Machinists)
MIDDLEPORT—*†§Ohio Machine Co. (Brick Machines, Mill & Furnace Castings, etc.)
MIDDLETOWN—†American Rolling Mill Co.
*Barkelew Electric Mfg. Co. (Electrical Specialties)
*†Miami Cycle & Mfg. Co. (Cycles, etc.)
*Middletown Machine Co. (Gas Engines)
*Shartle Bros. Machine Co. (Paper Mill Machy.)
MILAN—*Curtis Machine Co. (Thresher Parts)
MILLERSBURG—*†Millersburg Foundry & Machine Works
MINERAL RIDGE—*†Mineral Ridge Mfg. Co. (Steam Hoists, etc.)
MINERVA—*Jobes, Emmor
*†Minerva Hardware Mfg. Co. (Bldrs.' Hdw., Hdw. Specialties, Grey Iron Castings, etc.)
MINSTER—*†§Minster Machine Co. (Power Transmitting, etc.)
MONTPELIER—*§Wingert Foundry & Furnace Co.
MORRAL—*Morral Bros. (Canning Machinery, etc.)
MOUNT GILEAD—*†§Hydraulic Press Mfg. Co. (Presses, Sugar Mills, etc.)
MOUNT STERLING—*Carter Wire Fence Machy Co. (Fence Machy)
MOUNT VERNON—†Black Furnace Co.
*†§Cooper, C. & G. Co. (Corliss Engines & Heavy Castings)
*Mount Vernon Bridge Co. (Structural Steel Work)
*Reeves Engineering Co. (Gas Engines)
NAPOLEON—†Heller-Aller Co. (Wind Mills, etc.)
NELSONVILLE—*†§Nelsonville Foundry & Machine Co. (Mining, Elevating & Conveying Machinery)
NEWARK—*†§B. & O. R. R. Shops
*†Jewett Car Co. (Car Builders, etc.)
*†McNamar Machine Works.
*†Newark Machine Co. (Agrl. Implts., etc.)
*†Scheidler Machine Works Co. (Engines, etc.)
†Simpson Heater Co. (Hot Air Furnace, etc.)
*†Thomas, Jas. E. & Co. (Ingot Molds, Castings, etc.)
†§Wehrle Co. (Stove Mfrs.)
NEW BREMEN—*†§Lanfersieck & Grothaus Co. (Agrl. Implts., Plows, etc.)
NEW COMERSTOWN—*†§Clow, Jas. B. & Sons. (See Chicago, Ill.)
*§Curby, A. L. & Son
*Rex File & Saw Co. (Files, Saws, etc.)
NEW LEXINGTON—*King & Dillow (Machinist)
*†Star Mfg. Co. (Agrl. Implts., Mine Cars & Wheels & Feed Grinders)
NEW LONDON—*†Arnold-Creager Co. (Brick & Clay Mach'y)
NEW PHILADELPHIA—*New Phila. Machine & Repair Co.
*†Sharp Foundry & Machine Co.
*†Spicer Mfg. Co. (Agrl. Implts., etc.)
NEW RICHMOND—*†Columbia Brake Shoe & Foundry Co. (See Cincinnati, O.)
NEWTON FALLS — *†Grinnell & Borland (Stoves)
NILES—†Globe Foundry & Machine Works
*Harris Automatic Press Co. (Printing Presses)
*Niles Car & Mfg. Co. (Car Builders)
*†Niles Mine & Mill Supply Co.
NORTH BALTIMORE—*†Hardy Machine Co. (Oil Well Mach'y, etc.)
NORTH FAIRFIELD—†Harvey, S. L. (Plows, etc.)
NORWALK—*Miller Anchor Co. (Anchors & Chains, etc.)
†§Norwalk Iron & Brass Foundry Co. (Iron & Brass Castings)
NORWOOD—(See Cincinnati, O.)
OAKHARBOR—*Bense Motor Co.
OAK HILL—*†§Oak Hill Foundry & Mach. Works
OBERLIN—*Ohio Road Machinery Co. (Road Machinery, etc.)
ORRVILLE—*Champion Thresher Co. (Agrl. Implts.)
*Cyclone Drill Co. (Well Drilling Machy., Engines, Drills, etc.)
PAINESVILLE—*Blackmore, Jno. (Machinist)
*†Coe Mfg. Co. (Veneer Machinery)
*Painesville Metallic Binding Co. (Hardware Specialties, etc.)
PEEBLES—*†§Suffron, C. E.
PIQUA—*†Bowdle Bros (Castings & Jobbing)
*Champion Paper Cutter Co. (Paper Cutters)
*†§Favorite Stove & Range Co. (Stoves),
*French Oil Mill Machinery Co. (Oil Mill Machinery, etc.)
PLAIN CITY—*†United Cement Machinery Mfg. Co.
PLYMOUTH—*†§Fate, J. D. & Co. (Brick Machinery)
*†Heath Foundry & Mfg. Co. (Lawn Mowers, Machines, etc.)
*Plymouth Motor Truck Co. (Locomotives & Motor Trucks)
POMEROY—*†§Pomeroy Machine Co.
PORTAGE—*Laramora, O. O.
PORTSMOUTH—*Brunner, Jacob (Machinist)
*Heer Engine Co. (Engines, etc.)
†Ohio Stove Co. (Stoves)
*†§Portsmouth Machine & Casting Co. (Barrows, Presses, Dies, Castings, etc.)
*†Portsmouth Steel Co. (See Wheeling, W. Va.)
*†Portsmouth Stove & Range Co. (Stoves, etc.)
*Simpson Bros (Brick Makers' Mach'y)
PRAIRIE DEPOT—*Johnson, John W.
RAVENNA—*†Browning Foundry Co.
*†§Byers, John F. Machine Co. (Hoisting Machinery, etc.)
*†Ravenna Furnace & Heating Co.
*†Williams, A. C. Co. (Sad Irons, etc.)
RIPLEY—*†Danbery Foundry Co. (Castings & General Machine Work)
ROSSFORD—*Ford Plate Glass Co.
SABINA—*Clinton Mfg. Co. (Pumps)
*Ideal Pump Co. (Pumps, etc.)
ST. MARYS—*†Heisler Co. (Air Compressors & Pumping Machinery)
*†§St. Mary's Machine Co. (Machinists & Fdrs.)
SALEM—*†§BUCKEYE ENGINE CO. (Steam & Gas Engines & Grey Iron Castings). (See adv. index, end of book)
*†Clarke, W. J. Co.
*†§Deming Co. (Steam Pumps & Pumping Mach'y, etc.)
*†§Mullins, W. H. Co. (Architectural Bronze Work, etc.)
*†National Sanitary Mfg. Co. (Enameled Sanitary Iron Work)
†Pittsburg Foundry & Machine Co. (See
*Salem Tool Co. Pittsburg, Pa.)
*†Silver Mfg. Co. (Hub Boring Mach'y., Blacksmiths' Drills & Agrl. Implts., etc.)
†Victor Stove Co. (Stoves)
†Woodruff, J. & Sons (Stoves, etc.)
SALINEVILLE—*Rice, John
SANDUSKY—†Bay View Foundry Co.
†Farrell-Cheek Steel Foundry Co. (Steel Castings)

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*†§Krotz Machine Co. (Handle & Wine & Cider Making Machinery, & Iron & Brass Fdrs.
*Mack Iron & Wire Works Co. (Architectural & Ornamental Iron & Steel)
*Ohio Motor Co. (Gas Engines)
*Roberts Motor Co. (Gasoline Motors, etc.)
*†Sandusky Foundry & Machine Co. (Iron Fdrs. & Machinists)
*Sandusky Tool Co.
*Suspension Roller Bearing Co. (Ball & Roller Bearings, etc.)
*Threading Machine Co. (Pipe Threading Machines, etc.)
*Vim Motor Co. (Gasoline Engines)
SEVILLE—*†§Overholt, I. M.
SHELBY—*Chicago Handle Bar Co. (Bicycle Handle Bars)
†Shelby Foundry Co. (Grey Iron Castings)
*§Shelby Spring Hinge Co. (Steel, Brass & Bronze Hardware)
SHREVE—*†Shreve Mfg. Co.
SIDNEY—*American Steel Scraper Co. (Road Scrapers)
*Eclipse Folding Machine Co. (Paper Folding Machines)
*Mentges Folder Co. (Paper Folding Machines)
*Monarch Machine Co. (Engine Lathes)
*Pioneer Pole & Shaft Co. (Poles & Shafts)
*†Sidney Hollowware Co.
*Sidney Steel Scraper Co. (Drag & Wheel Road Scrapers, Barrows, etc.)
*Sidney Tool Co. (Tools, Saws, etc.)
*Slusser & McLean Scraper Co. (Road Scrapers)
*Smith, Philip Co. (Carriage & Elevator Machinery, Castings, etc.)
*†Standard Clutch Mfg. Co. (Friction Clutches, Drives, etc.)
*Van Etten Machine Co. (Paper Folding Machines)
*†§Wagner Mfg. Co. (Enameled & Aluminum Hollow Ware)
SPENCERVILLE—*Foster, Tobias
SPRINGFIELD—*†American Radiator Co. (See Chicago, Ill.)
*†American Seeding Machinery Co. (Agrl. Impl's)
*†Bauer Bros. Co. (Agrl. Implements, Flour Mill Machy., etc.)
*Bauroth Bros. (Gas & Gasoline Engines)
*†Bayley, Wm. Co. (Builders, Iron Work, Special Machinery, etc.)
*Casey, D. L. Machine Co. (Engines, Boilers, etc.)
*§Central Brass & Fixture Works (Brass Goods)
*Colthar, Wm. U. (Special Machinery)
*†§Duplex Mill & Mfg. Co. (Tacrtion Engines, Feed Mills, etc.)
*†Fairbanks Co. (Machine Tools, Piano Plates, Castings, etc.)
*†Foos Gas Engine Co. (Gas Engines)
*French & Hecht (See Davenport, Ia.)
*Gearless Gas & Gasoline Engine Co. (Gas & Gasoline Engines)
†Gray Iron Casting Co.
*Greene Mfg. Co.
†Hennessy Foundry Co. (Grey Iron Castings)
*†Hoppes Mfg. Co. (Feed Water Heaters,
*Igou Bros. Mfg. Co. etc.)
*Indianapolis Switch & Frog Co. (Frogs, Switches & Crossings, etc.)
*†§International Harvester Co. (Agrl. Implements, etc.) (See Chicago, Ill.)
†Kelly, O. S. Co. (Piano Plates, etc.)
*†Kelly Springfield Road Roller Co. (Road Rollers, etc.)
*Lagonda Mfg. Co. (Boiler Flue & Tube Cleaners, Valves, etc.)
*†§Leffel, Jas. & Co. (Turbine Water Wheels & Engines, etc.)
*Long, W. Z. (Confectioners' Machy., etc.)
*†Mast, Foos & Co. (Buckeye Lawn Mowers, Force Pumps, Wind Engines, etc.)
*Mentels, The (Gas Heating Stoves for Natural & Artificial Gas, etc.)
*Miller Improved Gas Engine Co. (Heavy Duty Gas Engines)
*§Nolte Brass Co. (Brass Fdrs. & Finishers)
*Owen Machine Tool Co. (Machine Tools)
*†Patric Furnace Co. (Hot Air Furnaces)
*Reed Mfg. Co. (Rug Looms, etc.)
*†Robbins & Myers Co. (Light Iron Castings & Dynamos, Motors, Electric Fans,
*Roberts, T. (Feed Mills, etc.) etc.)
*Rodgers, Geo. G. (Machinist)
*†Ross, E. W. Co. (Sugar Cane Mills & Fodder Cutters, etc.)
*Safety Emery Wheel Co. (Tools & Emery Grinders, etc.)
*Shawver Co. (Woodworking Mach'y)
*Shiers, J. A. Supply Co. (Tools, etc.)
*§Springfield Brass Co. (Brass Fdrs. & Finishers, Steam Specialties, etc.)
*Springfield Gas Engine Co. (Gas Engines)
*†Springfield Machine Tool Co. (Lathes, Presses, etc.)
†Springfield Malleable Iron Co.
*†Superior Gas Engine Co. (Gas & Gasoline Engines)
*†Thomas Mfg. Co. (Agrl. Implts., Pumps, Lawn Mowers, etc.)
*Thompson Grinder Co. (Grinding Machy., etc.)
*†Trump Mfg. Co. (Engines, Water Wheels & Transmitting Mach'y)
*Victor Feed Mills Co. (Feed Mills, etc.)
*Webster & Perks Tool Co. (Machine Tools, etc.)
*Western Tool & Mfg. Co. (Tool Holders, Mandrels, etc.)
†Wickman Piano Plate Co. (Piano Plates & Piano Hdw.)
STEUBENVILLE—†Irwin, R. J.
*†La Belle Iron Works (Iron & Steel Castings & Machine Shops)
†Ohio Foundry & Mfg. Co. (Grates, Castings, etc.)
*Woods Valve & Machine Co.
SUGAR CREEK—*Beechy & Brady
SWANTON—*†§Baker, A. D. Co. (Traction Engines & Metal Wheels, etc.)
*Pilliod Co. (Valves, etc.)
TIFFIN—*Brickner Machine Co.
†Hermyer Stove Co. (Gas Heaters, etc.)
*Klopp Bros. (Machinists)
*†Loomis Machine Co. (Well Boring & Drilling Machy.)
*†National Machinery Co. (Bolt & Nut & Rivet Machy., etc.)
*†§Sterling Emery Wheel Mfg. Co. (Emery Wheels & Emery Wheel Mach'y.)
†§Tiffin Malleable Iron & Chain Co.
*†§Tiffin Wagon Co. (Agl. Implts.)
TOLEDO—*Acme Mfg. Co. (Special Machy., Tools, Dies, etc.)
*†Advance Machinery Co. (Woodworking Machinery)
*American Foundry Co. (Iron Founders)
*†American Foundry & Furnace Co. (See Bloomington, Ill.)
*American Metal Wheel & Auto Co.
*American Tubular Axle Co.
*Automatic Machine & Tool Co. (Gas & Gasoline Engines, etc.)
*†Baker Bros. (Key Seaters, Tapping & Boring Machines & Woodworking Mach'y)
*Banting Machine Co. (Agrl. Implts., etc.)
*Bauroth Machine Co.
*Bissell, F. Co. (Electrical Specialties, etc.)
*†Braunschweiger Bros. (Special Machy., Tools, etc.)
*Brunning Metal Wheel Works (Truck & Car Wheels, etc.)
*†Consolidated Pump Co.
*De Mers, Maglair
*De Vilbiss Mfg. Co. (Surg'l Instruments)
*†DONOVAN WIRE & IRON CO. (Grey Iron Castings), Chicago & W. & L. E. Ry. (See adv. indev, end of book)
†Ensign Foundry Co. (Iron Founders)
*Etna Machine Co.
*†Foster, C. M. & Co. (Iron Fdrs., etc.)
*Gendron Wheel Co. (Bicycle Wheels)
*Gogel Mfg. Co. (Tuyere Iron Heaters, Fifth Wheels, etc.)
*†Haughton Elevator & Machine Co. (Elevators, etc.)
*†Heartley, Geo. W. (Bicycle & Metal Wheel Mach'y, etc.)
*International Belt Shifter Co. (Belt Shifters, etc.)
*†Jones, S. M. Co. (Gas Engines & Oil Well Supplies)
*Keasey Pulley Co. (Power Transmitting Machinery)
*Kent Machine Co. (Machinists)
*Kinsey Mfg. Co. (Automobile Parts, etc.)
*Lawrence Mfg. Co. (Cream Separators & Dairy Mach'y)
*McCreery Engineering Co. (Ventilators & Air Cooling Mach'y, etc.)
*McLeary, Ed. (Machinist)
*§McMaull-Boiler Mfg. Co.
*Meilink Mfg. Co. (Tools, etc.)
*†Merrell Mfg. Co. (Pipe Cutting & Threading Mach'y, etc.)
*†Milmine, H. B. & Co. (Iron Fdrs., etc.)
*Moore, C. H. (Edge Tools, etc.)
†National Malleable Casting Co. (See Cleveland, O.)
*†§National Supply Co. (Oil Well Supplies, etc.)
*Owens Bottle Machine Co. (Bottle Machines)
*Powell, F. & Co.
*†Rathburn-Jones Engineering Co. (Marine Gas Engines)
*Ross, E. & Co. (Novelty Rug Machines)
*Ruembell, H. & Son
*†Rumely, M. Co. (See La Porte, Ind.)
*§Seeger, Valentine (Brass & Comp. Castings)
*§Seiss Mfg. Co. (Iron & Brass Specialties)
*Shaw-Kendall Engineering Co.
†Superior Iron & Mfg. Co. (Grey & Malleable Iron Castings, etc.) Works: Wauseon, O.
§Toledo Brass & Novelty Works (Brass & Comp. Castings)
*§Toledo Chandelier Mfg. Co.
*Toledo Computing Scale Co. (Computing Scales, etc.)
*†Toledo Foundry & Machine Co. (Steam Shovels, Castings, Engines, Dredging Machinery, etc.)
*†TOLEDO MACHINE & TOOL CO. (Punching & Shearing Mach'y, Power Presses, Power & Drop Hammers, etc.) (See adv. index, end of book)
*Toledo Bridge & Crane Co. (Structural Iron Work, etc.)
*Toledo Metal Wheel Co. (Bicycles, Metal Wheels, etc.)
*Toledo Pipe Threading Machine Co. (Pipe Threading Machines, Dies, etc.)
†Toledo Plow Co. (Plows, etc.)
*Toledo Saw & Supply Co. (Saws, etc.)
*†§Toledo Ship Building Co. (Ship Builders, Engines, Brass & Grey Iron Castings)
†Toledo Steel Casting Co.
†Toledo Stove & Range Co. (Stoves,
*Union Fire Arms Co. Ranges, etc.)
†U. S. Malleable Iron Co. (Malleable Iron Castings, etc.)
*Universal Machine Co. (Gasoline Motors)
*†§Vulcan Steam Shovel Co. (Steam Shovels & Dredges)
§Western Gas Fixture Co. (Gas & Elec. Fixtures, etc.)
*Yost Electric Mfg. Co. (Lawn Sprinklers, Lamp Sockets, etc.)
TORONTO—*†§Means Engineering & Foundry Co. (Brick Machinery, Brass Castings,
*†Toronto Machine Co. etc.)
TROY—*Hobart Electric Mfg. Co. (Electric Coffee Mills & Meat Choppers, etc.)
*Kelly Machine Co.
TWIGHTWEE—*Cincinnati Screw & Tap Co. (Taps, Screws, Nuts, etc.)
TYRELL—*Tyrell, A. H. & Son (Iron Fdrs.)
UPPER SANDUSKY—*†Johnson, J. W., & Co. (Laundry Machinery)
*†§National Steam Pump Co.
*†Ohio Mfg. Co. (Agrl. Implts., etc.)
URBANA—*†Crane, M. H. & Co. (Stoves, etc.)
*§Desmond-Stephen Mfg. Co. (Injectors,
*†Illinois Car Co. (Cars, etc.) etc.)
UTICA—*Cree, J. A.
VAN WERT—*Frisbie, F. C.
†Spayd Bros.
VERMILION—*§Wakefield Brass Co. (Lighting Fixtures)
VERSAILLES—*Alexander, Edward
WADSWORTH—*§Ohio Injector Co. (Boiler
WALDO—*Long, J. F. Injectors, etc.)
WAPAKONETA—†Wapak. Hollow Ware Co.
*Wapakoneta Machine Co.
WARREN—*†Aetna Fdy. & Machine Co. (Tin & Sheet Mill Machy. & Castings)
*Borden Co. (Hand Pipe Threading Machines, etc.)
*Brown Bros. (Envelope Mach'y)
*†Day-Ward Co. (Cast Iron Enameled Sanitary Bath Tubs, etc.)
*Denison Mfg. Co. (Carpet Stretchers, Curling Irons, etc.)
*§General Fire Extinguisher Co. (Fire Sprinklers) (See Providence, R. I.)
*Hitchcock Motor Co.
*Holscher Electric Mfg. Co. (Electrical
†Iron City Grate Bar Co. Specialties)
*†McMyler-Interstate Co. (Quarry & Contractors' Machinery, etc.)
*New York & Ohio Co. (Electrical Goods, etc.)
Packard Electric Co. (Electrical Specialties)
*Phoenix Electric Co. (Electrical Specialties)
*Peerless Electric Co. (Dynamos & Motors)
*Sterling Electrical Mfg. Co. (Electrical Specialties)
*†Trumbull Mfg. Co. (Gasoline Engines & Cylinders & Castings)

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*Warren Electric & Specialty Co. (Motors, etc.)
*Warren Stove Co. (Steel Ranges)
*Winfield Mfg. Co.
WASHINGTON, C. H.—*†§Swope, Geo. B.
†Wonder Mfg. Co. (Stoves)
WAUSEON—*†Red King Mfg. Co. (Windmills. etc.)
*Schletz, Philip
†Superior Iron & Mfg. Co. (See Toledo, O.)
WELLINGTON — *†Wellington Machine Co. (Brick Mach'y, etc.)
WELLSTON—*†Morrow Mfg. Co. (Mining Machy., etc.)
*†Peck-Williamson Fdry. Co. (See Cincinnati, Ohio)
*Wellston Plumbing & Machine Co.
WELLSVILLE—†Menough Foundry Co. (Grey Iron Steel Castings)
*†Stevenson Co. Brick Mach'y., etc.)
WEST ALEXANDRIA—*†Pence-Steward Mfg. Co. (Structural Iron & Machine Works)
WESTERVILLE—*Bennet, H. L. & Co. (Stump Pullers)
†Hance, J. W. Foundry Co. (Grey Iron Castings, etc.)
WESTPARK—*Industrial Car Co. (Industrial Cars, etc.)
*Norton Tool Co. (Tools, etc.)
WICKLIFFE—*Cleveland Brick Machinery Co. (Brick Machinery)
*Cleveland Brick Machinery Co. (Brick Machinery)
*Cleveland Crane & Car Co. (Cranes & Hoists)
WILLOUGHBY—*†§American Clay Machinery Co. (See Bucyrus, O.)
WILMINGTON—*Champion Bridge Co. (Structural Steel Work, etc.)
*Irwin Auger Bit Co. (Auger Bits, etc.)
WOODSFIELD—*Loffland Bros.
WOOSTER — *†Canton-Hughes Pump Co. (Steam Pumps, etc.)
*Wooster Machine Co.
XENIA—*†Kelly, R. A. Co. (Shaping Machines, Machine Tools, etc.)
YOUNGSTOWN—*§Falcon Bronze Co. (Brass & Bronze Castings, Tuyeres & Coolers)
*Fitzsimons Co. (Polished Steel Shafting)
*General Fireproofing Co. (Steel Products)
*McKay Bros. (Machine & Job Work)
†National Foundry Co. (Brake Shoes, Sash Weights, etc.)
*Pollock, Wm. B. Co. (Gas Works Mach'y, etc.)
*Reliance Edge Tool Co. (Edge Tools, etc.)
*†Republic Iron & Steel Co. (Offices, Pittsburg, Pa.)
*†§Tod, Wm. Co. (Rolling Mill Engines)
†Truman, A. L. & Son (Stove Castings)
*†§United Engineering & Foundry Co. (Rolling Mill Mach'y. & Castings). (See Pittsburg, Pa.)
*†Wiener, Ernst Co. (R. R. Supplies, Cars, etc.)
†§Youngstown Bronze & Iron Foundry Co. (Bronze & Iron Founders)
*†§Youngstown Foundry & Machine Co. (Rolling Mill Machy)
*†Youngstown Iron & Steel Co. (Stoves & Ranges)
*†Youngstown Sheet & Tube Co.
*†Youngstown Steel Co. (Steel Castings)
*Youngstown Wire & Iron Co. (Fire Escapes, etc.)
ZANESVILLE—*†Brown Mfg. Co. (Plows, Agrl. Implts., etc.)
*†§Dockary, H. V. Brass & Iron Co.
*†§Griffith & Wedge Co. (Engines, Saw Mill Machy., etc.)
*†Jones, Chas. H. (Stoves)
†Weidig & Co.
*Zanesville Machine Co.
†Zanesville Malleable Co. (Malleable Iron Fdrs.)
*Zanesville Mould Co.

## OKLAHOMA.

ALVA—*Bickel, T. W.
ARDMORE—Jones-Everett Machine Co.
BARTLESVILLE — *Larkin Bros. (Oil Well Tools)
BLACKWELL—*Rice Bros.
COAL GATE—†Pounder, H.
DURANT—*†Durant Machine & Iron Works.
EL RENO—*El Reno Foundry & Machine Co.
ENID—*†§Enid Fdry. & Machine Shop
*Young, John A. Machine & Supply Co. (Machinist)
GUTHRIE—*†§Southwestern Iron Co. (Grey Iron & Builders' Castings, Repair Work, etc.)
LAMONT—*Snyder Bros.
M'ALESTER—*†§Union Iron Works
MUSKOGEE—*†Eagle Mfg. Co. (Agricultural Implts., etc.)
*Meister, C. M.
OKLAHOMA—*†§Oklahoma City Fdry. & Machine Shop
*Prest Machine Works
*†§Sherman, N. S., Machinery Co.
SHAWNEE—*†§Wilkinson & Fisher
TULSA—*†Oklahoma Iron Works
*Tulsa Machine & Tool Co.
WOODWARD—*Boyle Bros.

## OREGON.

ALBANY—*†§Albany Iron Works (Flour Mill, Mining, etc.)
ASHLAND—*†§Ashland Iron Works
ASTORIA—*†Astoria Iron Works (Inc.) (Engines, Canning Machinery & Iron Castings)
*†Lovell, J. L.
*†Pacific Iron Works (Mining & Saw Mill Machinery, etc.)
BAKER CITY—*†§Baker City Iron & Supply Co.
EUGENE—*†§Frazer, G. N.
*†Gross Bros. (Fdrs. & Machinists)
GRANTS PASS—*†§Grants Pass Iron & Steel Works
MARSHFIELD—*†§Nelson Iron Works
NORTH BEND—*†§North Bend Iron Works
*Roake, James
OREGON CITY—†§Roake, J. A.
OSWEGO—*†Oregon Iron & Steel Co. (See Portland)
PENDLETON—*†§Pendleton Iron Works
PORTLAND—*Bell, Wildman Co.
*Boggess & Curtis
†Columbia Steel Co. (Hoisting Blocks)
*Cornfoot, Wm.
*Gardner & Viggers
*§Harper Brass Works (Brass Composition, Bronze, Machinists, etc.)
*Harris, H. E. (Ice Machy., etc.)
*†Hess-Martin Iron Works
*Hicks, Burt (Machinist)
*Hippely, Edward
*†Independent Foundry Co. (Grey Iron Castings, Structural Steel)
*Isensee, Wm. (Machinist)
†Loewenberg & Going Co. (Stoves)
†Montag, Jno. (Stoves)
†National Iron & Foundry Co.
*§Oregon Brass Works (Brass Castings, etc.)
§Oregon Foundry Co.
*†Oregon Iron & Steel Co. (Works, Oswego)
*†Pacific Iron Works (Builders' Iron Work & Castings)
*†Phoenix Iron Works
†§Portland Bronze & Crucible Steel Fdry. & Flour, Saw & Paper Mill Mach'y., Engines, etc.)
*†§Portland Ry., Lt. & Power Co.
*Portland Wire & Iron Works
*Precemeder & Tureck Bros.
*†Smith-McDonough Co. (Saw Mill Mchy.)
*Trenkman, B. & Co.
*Tuerck, I. K.
*†Vulcan Iron Works (Chas. F. Machen, Prop.)
*Webber Machine Works
*Wood, John, Iron Works Co.
SALEM—†Loewenberg & Going Co. (See Portland)
*Maurer, John
*Wilson, O. J.
THE DALLES—*Clough, H.
*†Kirk, J. B.

## PENNSYLVANIA.

ADAMSTOWN—*Shirk, A. G.
ALLEGHENY—(See Pittsburg)
ALLENTOWN — *Allentown Bobbin Works (Steel Bobbins)
*†§Allentown Rolling Mills (Rolling Mill Machy., High Duty Pumping Engines, etc.)
*Bonney Vise & Tool Works (Inc.) (Vises, Tools, etc.)
†Daugherty Foundry Co. (Grey Iron Castings, Grate Bars, etc.)
*Excelsior Knitting Machine Mfg. Co. (Knitting Machy.)
*Grammes, L. F. & Sons (Machinery Bldrs.)
†Kline Hardware Co. (Hdwe. Specialties)
*Kutz & Gift (Capsule Moulds, etc.)
*†§Lehigh Portland Cement Co.
*Lindstrom, Jno. T. (Steam Trap & Separators, etc.)
*§Mack Bros. Motor Car Co. (Motor Trucks, Cars, etc.)
*†Mosser, W. F. & Son (Iron Fdrs., Cement Mach'y, etc.)
*Nadig, C. H. Mfg. Co. (Steam Engines, etc.)
*†§Spangler, Chas. (Grey & Brass & Bronze Castings)
*Taylor, Wm. H. Co.
*†§Traylor Engineering Co. (Mining Machinery) (See New York City)
*§Vulcan Brass Works (R. Meisterknecht, Prop.)
ALTOONA—*Monarch Machine Works (Valves, etc.)
*†§Penna. R. R. Co. (Shops)
AMBRIDGE—*†§American Bridge Co. (Office, Pittsburg, Pa.)
ARDMORE—†Autocar Co.
ASHLAND—*†§Goyne Steam Pump Co. (Steam Pumps)
ATHENS—*†American Bridge Co. (Office, Pittsburg, Pa.
*Imperial Pneumatic Tool Co. (Pneumatic Tools)
AVONDALE—*†§Anderson, Thos., & Co.
AVONMORE—†Keystone Steel Foundry Co. (Steel & Grey Iron Castings)
*†National Roll Foundry Co. (Rolling Mill, Plate Glass & Paper Mill)
BANGOR—*†Flory, S. Mfg. Co. (Iron Fdrs., Hoisting Engines, Stone & Slate Working Mach'y., etc.)
BAUSMAN—*Bausman, D. H. (Machinist, etc)
BEAVER FALLS—*Emerson, Smith & Co. (Saws & Specialties)
†Howard Stove Co. (Stoves & Ranges)
*†§Keystone Driller Co. (Portable Well Drilling Machy. & Brass, Steel & Grey Iron Castings)
*Keystone Pump Mfg. Co. (Pumping Mach'y, etc.)
*†§Knott, Harker & Co. (Fire Place Furnishings, Castings, etc.)
*†Penn Bridge Co. (Steel Bridges & Foundry & Machine Work)
*Standard Connecting Rod Co. (Connecting Rods, etc.)
*Standard Gauge Steel Co. (Finished Machine Keys, Compressed Steel Elevator Guards, etc.)
*†Standard Scale & Supply Co. (See Pittsburg, Pa.)
BEDFORD—†Cromwell, W. F.
BELLEFONTE—*†§Lingle, J. H., Co. (Helve Hammers, etc.)
BELLVILLE—*†§Hertzler & Zook
BELLWOOD—*†Bellwood Mfg. Co. (Car & R. R. Castings)
BENNETT—*Lippert, E. T. Saw Mfg. Co. (Saws, etc., Machinery)
BENROY—*†§Strickler, B. F. & Sons (Tobacco Scrap Machinery)
BERWICK—*†American Car & Foundry Co. (See St. Louis, Mo.)
†Fenstemacher, Henry
BETHLEHEM—*†Guerber Engineering Co. (Frogs, Switches, Signals, etc.)
†Reese, Lewis O. (Iron Fdry.)
*Roller-Smith Co. (Electrical Instruments, etc.)
BIRDSBORO—*†BIRDSBORO STEEL Foundry & Machine Co. (Core Drills, Rolling Mill Machinery & Iron & Steel Castings, etc.)
BLAIRSVILLE—*Blairsville Machine Works
*†§Tittle, C. L.
BLOOMSBURG—*†American Car & Foundry Co. (See St. Louis, Mo.)
*Brower, E. B. (Gas Engines, etc.)
*Geese, Jeremiah & Co. (Machinists)
*†Harman & Hassert
*†§Richard Mfg. Co. (Rod, Tube & Wire Mill Machinery & Grey Iron Castings)
BLOSSBURG—†Moore, Thos. J.
BLUE BALL—*Shirk, P. E. (Wrapper Cutting Machines, etc.)
BOLIVER—*†§Boliver Foundry & Machine Co.
BOYERTOWN—Megerly, Chas. O.
*Schlegel, Daniel (Agrl. Implts.)
*†Union Mfg. Co. (Sad-Irons, etc.)
BRACKENRIDGE — *†ALLEGHENY Steel Co. (Machine Shop & Foundry for Own Use). Office: Pittsburg, Pa. (See adv. index, end of book)
BRADDOCK—*†Braddock Machine & Mfg. Co. (Rolling Mill Machinery)
*†§Carnegie Steel Co. (See Pittsburg)
*†McVay & Walker (Sanitary Enameled Cast Iron Goods, Bath Tubs, etc.)
*†Sterling Steel Foundry Co. (Steel Castings, Car Couplers, etc.)
BRADFORD—*†§Air Pump & Meter Co.
*†Blaisdell Machinery Co. (Gas Engines, Air Compressors, etc.)
*†Bovaird & Co. (Engines, etc.)
*†§Bovaird & Seyfang Mfg. Co. (Engines, Boilers, Pumps, Oil & Gas Well Supplies, Well Drilling Machinery, etc.)
*§Bradford Foundry Co. (Brass & Bronze Castings, etc.)
*†§Caldwell, E. R. & Co. (Iron & Brass Fdrs., Steam Engines, Pumps & Oil Well Supplies)
†Central Foundry Co. (Converted Steel Castings)
*†Custer Coupling Co. (Couplings, Clamps, etc.)
*†Dresser, S. R. Mfg. Co. (Pipe Couplings, Packers' Clamps, Sleeves & Fillings, etc.)
*Flickinger Iron Works (Gas Driven Compressors, Gas Engines, etc.)
†General Foundry Co. (Steel Castings)

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*Hamilton, F. (Oil Well Tools, etc.)
*Ley, Jno. (Oil Well Tools, etc.)
*Lytle, M. & Son (Machinists)
*McElwaine Co. (Gas Engines, etc.)
*Phillips, David Co. (Oil Well Tools, etc.)
*Standard Saw & Mfg. Co. (Saws, etc.)
BRAEBURN—*Braeburn Steel Co. (Small Machine Shop for Own Use)
BRIDGEPORT—*Gehret Bros.
*†Wilkinson Foundry & Mfg. Co. (Automatic Stokers, etc.)
BRISTOL—*Ardrey, S. B. & Sons (Textile Mach'y., etc.)
†Harkins, T. B. Foundry Co. (Stoves, Furnaces, etc.)
*†Standard Cast Iron Pipe & Foundry Co. (Cast Iron Pipe & Castings)
BROOKVILLE—*†Jenks, W. H. (Machinist)
BROWNSVILLE — *†§Herbertson's, John, Sons (Mine Cars, etc.)
BRUNNERVILLE—*†Bentz, Frank B.
BURNHAM—*†Standard Steel Works (Steel Castings, etc). (See Phila., Pa.)
BUTLER—*†Butler Car Wheel Co. (Car Wheels, etc.)
*†Butler Engine & Foundry Co. (Engines, etc.)
†Campbell, J. G. & W. (Oil Well Supplies)
*†Evans Mfg. Co. (Engines & Gas Well Supplies)
*Heeter, C. M. Sons & Co. (Drilling & Fishing Tools, etc.)
*Kesselman & Co. (Oil Well Supplies)
*Larkin & Co. (Oil Well Tools, etc.)
*Masseth Packer & Machine Works (Oil & Gas Well Pumps, etc.)
*†Palm Gas Engines Co. (Gas Engines, etc.)
*Phillips, T. W. Mfg. Co. (Oil Well Supplies)
*†§Pittsburg-Hickson Co. (Brass & Iron Beds)
*Spang & Co. (Machinists & Oil Well Supplies)
*†Standard Steel Car Co. (Steel Cars & Trucks, etc.) (See Pittsburg, Pa.)
CALIFORNIA—*†California Fdry. & Machine
†King, J. W. (Stoves, etc.) Co.
CANONSBURG — †Canonsburg Steel & Iron Works
†Canonsburg Steel & Iron Works
*†Fort Pitt Bridge Works (See Pittsburg, Pa.)
CARBONDALE—*†Carbondale Machine Co. (Ice & Refrigerating Machinery)
*†Cross Engineering Co. (Coal & Ore Ma-
*†§Van Bergen & Co. chinery, etc.)
CARLISLE—†Gardner, E. J., Axle & Machine Co. (Axles & Machine Work)
*†Frog Switch & Mfg. Co. (Frogs, Switches, etc.)
CARNEGIE—†Adler, H. Co. (Gas Stoves, etc.)
*Alexander Bros. (Stove Pipe & Elbow Machines)
*†§Dixon, H. L. Co. (Glassmakers' & Potters' Supplies)
†Scott Iron & Steel Co. (Steel Castings)
CATASAUQUA—*†Catasauqua Casting Co.
*†Davies & Thomas Co.
§Hercules Metal Works (Brass, Bronze & Copper Castings, etc.)
*†Lehigh Car Wheel & Axle Works (Cars, Wheels & Axles, etc.)
*Lenox Mfg. Co. (Sewing Machine Attachments)
CENTER HALL—†Luse Mfg. Co. (Hydrants, etc.)
CHAMBERSBURG—*†§Chambersburg Engineering Co. (Steam Hammers, Cranes,
*†Haeffer, E. C. etc.)
*Hug, A. C. (Machinist)
*Schaal, Jno. D., & Co.
*Tunis, Robt. W. Mfg. Co. (Printing Presses, etc.)
*†§Wolf Co. (Flour Mill ½ Power Transmitting Machinery)
*†Wood's, T. B. Sons Co. (Power Transmission)
CHARLEROI—*†§Charleroi Foundry & Machine Co
CHERRY TREE—*†§Cherry Tree Iron Works
CHESTER—†American Steel Foundries Co.
(Open Hearth Steel) (See Chicago, Ill.)
*Baldt Anchor Co. (Anchors, etc.)
*Berry Engineering Co. (Steam Specialties)
*Birtwell, Henry B. (Mach'y, etc.)
*Black, John B. (Edge Tools, etc.)
†Boulden, Wm. M. & Sons (Jobbing)
*Chester Engineering & Machine Co. (Gasoline Engines, Crankshafts, Special Machinery, etc.)
†Chester Steel Castings Co. (Open Hearth Steel Castings)
*Cheyney, Jno. H. & Co. (Machinists)
§Crown Smelting Co. (Brass Fdrs. & Machinery Castings, etc.)
*Duplex Metals Co.
†Economy Iron Works
†Federal Steel Foundry Co. (Open Hearth Steel Castings)
†Keystone Steel Casting Co. (Crucible Steel Castings & Gear Blanks)
*Niagara Hydraulic Engine Co. (Hydraulic Engines, etc.)
*†Penn Steel Castings & Machine Co. (Castings Acid Open Hearth Steel of All Descriptions)
*†Seabaord Steel Casting Co. (Founders, Steel)
*Wetherill Bros. Machine Co. (Engines, Pumps, Dredging & Soap Machinery)
*†Wetherill, Robt. & Co. (Corliss Engines, Paper & Pulp Mill Mach'y, etc.)
CHESTNUT LEVEL—*Brown, J. Edgar
CHICORA—*Bowers, Warren
*Chicora Machine Works
CHRISTIANA—*†Christiana Machine Co. (Mill Mach'y)
CLEARFIELD—*†Byers, A. M., Co. (See Pittsburg, Pa.)
*†§Clearfield Machine Shops (Ltd.) (Fire Brick Machy.)
*Gearhart, Joseph E. & Son (Knitting Machines)
CLEONA — *Imboden Harrow & Roller Co. (Agrl. Implements)
COATESVILLE—*†Coatesville Foundry & Machine Co. (Grey Iron Castings, etc.)
*†§Lukens Iron & Steel Co. (Steel Castings, all Consumed by the Company; also Machine Shops for Repairs)
*†§Ridgway, Craig & Son Co. (Cranes &
*Taite Railway Signal Co. Hoists, etc.)
*Worth Bros. Co. (Well Equipped Machine Shop)
CODORUS — †Anchey, Abraham (Iron Fdry., etc.)
COLUMBIA—*†§Columbia Grey Iron Co. (Light Grey Iron Castings & Builders' Hdwe.)
*†Columbia Mfg. Co. (Laundry Machy.)
†Keeley Stove Co. (Stoves, Ranges & Furnaces)
*Smith, E. G. Co. (Concave & Convex Gauges, etc.)
CONNEAUTVILLE—*†§Moulthrop Bros.
CONNELLSVILLE—*†§Boyts, Porter & Co Steam Pumps, etc.)
*†Connellsville Iron Works (Boilers, Tanks, etc.)
*†§Connellsville Machine & Car Co. (Pumps, Engines, Mine Fans & Iron & Brass Castings, etc.)
*Connellsville Machine & Car Supply Co.
*†§Connellsville Mfg. & Mine Supply Co. (Coal & Coke Works Equipment)
†Munson Heater Co. (Heaters, etc.)
*†§National Foundry & Machine Co. (Pumps, Cranes & Castings)
*Pittsburg Safe Co. (Safes, etc.)
CONSHOHOCKEN—*†§Bate, Wm. T. & Son
*Lee, J. Ellwood Co. (Surgical Dressing Machinery to be used in their own Factory)
*†Messinger's, H. C. Sons (Stoves, etc.)
*†Wood, Jno. Mfg. Co. (Boilers, Tanks &
CONYNGHAM—*†Getting, J. D. Iron Fdrs.)
CORAOPOLIS—*†Duquesne Steel Foundry Co. (See Pittsburg, Pa.)
*Shamburg & Allen Machine Co.
CORRY—*†§Ajax Iron Works (Gas Engines, etc.)
*†Climax Mfg. Co. (Logging Locomotives & Cars, etc.)
*Corry Caster Co. (Casters, etc.)
*†Love Mfg. Co.
*Trill Indicator Co. (Indicators, Reducing Wheels, etc.)
†U. S. Brake Shoe Co. (See Buffalo, N. Y.)
*†U. S. Radiator Corp. (See Detroit, Mich.)
COUDERSPORT—*†§Currier-Kolth Mfg. Co. (Tools, etc.)
COWANESQUE—*†§Riepple, Jno. (Tools
CRAFTON—*Fisher, J. J. & Co. etc.)
CREIGHTON—†Yost Bros.
CRESSON—*†§Cresson Fdry. Mach. & Car Co. (Mine Cars, Wheels & Railroad & Mine Castings, etc.). (See Ebensburg.
DALTON—*†§Dalton Supply Co. Pa.)
DANVILLE—Brown, Will G. (Machinist)
*†§Danville Foundry & Machine Co. (Rolling Mill Mach'y, Engines, Grey Iron & Brass Castings, etc.)
†Danville Stove & Mfg. Co. (Stoves & Furnaces)
DARBY — *Roberts Filter Mfg. Co. (Germ Proof Water Filters & Brass Goods)
DAWSON—*†Dawson Foundry & Machine Co.
DELTA—*†Roberts, Richard & Son
*Sidwell, C. W.
DICKSON CITY—†Early Foundry Co.
DRIFTON—*†§Lehigh Valley Coal Co.
DUBOIS — *†§Dubois Iron Works (Mining, Tannery & Saw Mill Machinery, Grey Iron Castings, etc.)
*†§Osborne Machine Co. (Brass & Grey Iron Castings & Machine Work)
DUNBAR—†Dunbar Furnace Co. (Office Phila., Pa.)
DUNMORE—*†§Erie R. R. Shops
EAST BANGOR — *†East Bangor Mfg. Co. (Castings & Specialties)
EAST BROOK—*Hinkson Bros. (Machinists)
EAST DOWNINGTON—*†Downington Mfg. Co. (Paper & Pulp Mill Machy., etc.)
EAST GREENVILLE—*†Haas, Harvey B.
EASTON—*§Easton Brass & Machine Works
*Hobson & Co. (Agrl. Implmts. & Mach'y)
*†INGERSOLL-RAND CO. (See New York City.)
†Kuebler Foundries (Inc.) (Grey & Malleable Iron & Steel Castings)
†Wilson, Jacob (Est. of)
†Wilson Stove & Mfg. Co. (Stoves, etc.)
EAST PITTSBURG—*§Pittsburg Meter Co. (Gas Meters, etc.)
*†§WESTINGHOUSE ELECTRIC & Mfg. Co. (See adv. index, end of book)
*†§Westinghouse Machine Co.
EAST STROUDSBURG—*†Stauffer, Geo. E. (Engines & Flour Mill Machinery, etc.)
EAST WATERFORD—*East Waterford Machine & Supply Co.
EBENSBURG—*†§Ebensburg Foundry & Machine Co. (Brown & Son, Props.)
ECKERT—*Sittler, Peter
EDDYSTONE — *†Belmont Iron Works. (See Phila., Pa.)
*†Eddystone Steel Works (See Burnham, Williams & Co., Philadelphia, Pa.
†Pennsylvania Iron Works Co. (Marine Engines)
Simpson, Wm. & Sons (See Philadelphia, Pa.)
*Tindel-Morris Co. (Machine Tools, etc.)
ELIZABETH—*†United States Safe Co. (Safes)
ELIZABETHTOWN—*†Buch's, A. Sons Co. (Lawn & Road Rollers, Fanning Mills)
*Lancaster Scale Co. (Scales)
ELIZABETHVILLE—*†§Swab Foundry Co. (Castings, etc.)
ELKLAND—*†§Bedell, Andrew S.
ELKLICK—*Haselbarth, C. R. & Son (Hardware, etc.)
*Improved Traction Engine Co. (Traction Engines, etc.)
ELLWOOD CITY — †Burrows Foundry Co.
†§Ellwood Foundry Co. (Iron Castings)
*†Pennsylvania Stove Co. (Stoves, etc.)
*†Standard Engineering Works (Rolling Mill Machinery & Grey Iron Castings)
*†Steel Car Forge Co. (See Pittsburg, Pa.)
*Tindel-Morris Co. (Machnie Tools, etc.) (See Eddystone, Pa.)
ELYSBURG—*†De Shay, D. H. (Farm Implements & Castings of All Kinds)
EMAUS—*†Donaldson Iron Co. (Cast Iron Pipe)
EMPORIUM—*†§Emporium Machine Co.
EPHRATA—*†Sprecher Mfg. Co. (Castings & Cast Iron Troughs, etc.)
ERIE—*†Ball Engine Co. (Steam Engines, Machinery, Castings, etc.)
*Bay State Iron Works (Portable Engines, etc.)
*Bay State Machine Co. (Rubber Machy., etc.)
*Brown Folding Machine Co. (Paper Folding Machines, Rubber Machinery, etc.)
ing Machines)
*Burke Electric Co. (Electric Motors, etc.)
*Bury Compressor Co. (Air Compressors, Vacuum Pumps, etc.)
*§Campbell, J. B. Brass Works (Brass Fdry. & Finisher & Plumbing Goods)
†Cascade Foundry Co. (Grey Iron Castings)
*Chapman, C. L. Cream Separator Works
*†Erie Car Works (Cars) (Dairy Machy)
*†Erie City Iron Works (Steam Engines, etc.)
*Erie Clutch & Pulley Co. (Pulleys, Hangers, etc.)
*†Erie Engine Works (Steam Engines, etc.)
*†Erie Foundry Co. (Steam Hammers, etc.)
*Erie Machine Shops (P. W. Dietley, Prop.)
*†Erie Malleable Iron Co. (Malleable & Grey Iron Castings)
*Erie Mfg. & Supply Co. (Steam Engines, Heaters, etc.)
*Erie Pump & Engine Works (Engines & Pumping Machinery)

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*Erie Specialty Co. (Hdw. Specialties, etc.)
*§Erie Stamping & Mfg. Co. (Oil & Grease Cups, Brass Castings, etc.)
*Erie Tool Works (Pipe Cutters, Vises, etc.)
§Erie White Metal Co. (Babbitt Metal, etc.)
†Eriez Stove & Mfg. Co. (Stoves, etc.)
§Germann Bronze Co. (Brass & Bronze Castings
†Germer Stove Co. (Stoves, etc.)
*†Globe Iron Works
*Griffin Mfg. Co. (Builders' Hdw., etc.)
*†Griswold Mfg. Co. (Fine Light Castings, Gas Stoves, etc.)
*§Hays Mfg. Co. (Iron & Brass Goods for Gas & Water)
*Heisler Locomotive Works (Geared Locomotives, etc.)
*§Hollands Mfg. Co. (Vises, Pipe Wrenches & Plumbers' Tools)
*Hydraulic Iron Works
*†§Jarecki Mfg. Co. (Iron & Brass Fdrs., Malleable & Grey Iron Steam Fittings & Oil & Gas Well Supplies, etc.)
§Keystone Brass Co. (Brass Fdrs. & Finishers)
*Lake City Machine Shop (Herman Ey, Prop.)
†Lakeside Foundry Co. (Grey Iron Castings)
*Link, E. M. Machinery Co. (Saw Mill Machinery, etc.)
*Lovell Mfg. Co. (Clothes Wringers, etc.)
*Mayo Life Boat Co. (Life Boats, etc.)
*§Metric Metal Works (Gas Meters)
*Modern Tool Co. (Dies, Tools, etc.)
*†Morse Iron Works (Pipe Fittings, Grey & Malleable Iron Castings, etc.)
*†Nagle Corliss Engine Works (Corliss & Automatic Enginess & Heavy Castings)
*†Nagle Engine & Boiler Works (Steam Engines, etc.)
†National Foundry Co. (Grey Iron & Steel Castings)
§Noyes Brass Works (Brass Fdrs.)
†Odin Stove Mfg. Co. (Gas Stoves, etc.)
†Patterson & Sterling (Hot Air Furnaces)
†Penna. Boiler Works
*Reed Mfg. Co. (Pipe Wrenches, etc.)
*Reifel Pump Works (Pumps, etc.)
*Sims Co. (Steam Specialties)
*†Skinner Engine Co. (Steam Engines, etc.)
*Standard Saw Mill Machinery Co. (Saw Mill Machinery, etc.)
*Steiner, Martin (Tools, Emery Grinders, etc.)
*†Union Iron Works (Boilers, etc.)
†Urick Foundry Co. (Grey Iron Castings)
*†Walker Foundry Co. (Grey Iron Castings)
*Watson, N. A. (Boiler Injectors, etc.)
*Williams Tool Co. (Pipe Threading & Bolt Cutting Machines, etc.)

ETNA—†Etna Foundry Co. (Sash Weights)
§Roessing Bronze Co. (Brass & Bronze Fdrs., etc.)
*Spang, Chalfant & Co. (Works Contains Two Machine Shops). (Office, Pittsburg, Pa.)

EVANS CITY—*†Evans City Foundry Co.

EVERETT—†Pettigrew, Wm.

FORD CITY—*†§Pittsburg Plate Glass Co. (See Pittsburg, Pa.)

FRANKLIN—†American Steel Foundries (Steel Castings)
*†Chicago Pneumatic Tool Co. (See Chicago, Ill.)
*Coffman, J. P.
*†Colburn Machine Tool Co. (Boring & Turning Mills, Saw Arbors, etc.)
*†Emery, W. N. & Son (Iron Fdrs. & Machinists)
*Franklin Portable Crane & Hoist Co. (Portable Cranes & Hoists)
*§Franklin Railway Supply Co. (Conduits. Lubricators & Railroad Supplies)
*§Hough, Chas. N. Mfg. Co. (Brass Fdrs.
*Lane, D. T. & Sons & Finishers, etc.)
*†Producers' Supply Co. (Oil Well Supplies)
*Sheridan, Jas. & Sons
*†§Venango Mfg. Co. (Railway Specialties)
*Vogan, J. P. (Sucker Rods, etc.)

FREEBURG—Harmon & Moyer

FREEMANSBURG — *†§Hardware & Woodenware Co. (Iron Toys & Iron & Brass Castings, etc.) (See New York)
*†Shimer, Wm. Son & Co. (Iron Fdrs. & Hardware Specialties)

FULLERTON — †Dent Hardware Co. (Hardware, etc.)
†Lehigh Car Wheel & Axle Works
*†Lehigh Foundry Co. (Light & Heavy Grey Iron Castings, Rubbing Beds, etc.)

GIBRALTAR—*†Gibraltar Iron Works

GIRARD—*Ely, Theo. J. Mfg. Co. (Hardware Specialties)
*Girard Wrench Mfg. Co.
*†Lake Erie Foundry Co.

GLASSPORT—*American Axe & Tool Co.
*†Pittsburg Steel Foundry (See Pittsburg, Pa.)

GLEN ROCK—*†Norrish, Burnham & Co. (Machinists & Fdrs.)

GREENCASTLE—*†Geiser Mfg. Co. (See Waynesboro)
*Walk, Henry S. (Agrl. Implts.)

GREENMOUNT—*Null, Geo. W.

GREEN PARK—†Rheems & Bro. (Iron Fdrs.)

GREENSBORO—†Pennington, T. F.

GREENSBURG—†Brown-Ketcham Iron Works (See Indianapolis, Ind.)
*†§Hempfield Foundry Co. (Mine Cars, Wheels, etc.)
*Henry & Sheffler Machine Co.
*†§Kelly & Jones Co. (See Pittsburg, Pa.)

GREENVILLE—*†§Hodge Mfg. Co. (Iron Fdrs. & Machinists)

GROVE CITY—†Bessemer Foundry Co. (Grey Iron Castings)
*†Bessemer Gas Engine Co. (Gas Engines)
*Carrouthers-Fithian Clutch Co. (Clutches, etc.)
*§Imperial Co. (Plumbers Brass Goods)

GROVETON—*†Lewis Foundry & Machine Co. (See Pittsburg)

HAMBURG — *American Hoist & Mfg. Co.
†Confer, Smith & Co. (Chain Hoist, etc.)
*†Keiser, Francis (Radiators, etc.)
*†Loose, Saml. A. & Son (Plows, etc.)
*†Neiman & Saul
*Snell & Meharg (Machinists)

HANOVER—*Bingly, John J.
*Device Improvement Co. (Electric Railway Shop Tools)
*†Fitz Water Wheel Co. (Water Wheels)
*Flickinger Bros.
*Flickinger, John D.
*Hanover Plow Handle Co.
†Heindel Foundry Co.
*†§Heidel Foundry Co. (Special Machinery & Grey Iron Castings)

HARMONY—*†Flowers, A. U.

HARRISBURG—*Bailey, Chas. L. & Co. (Inc.) (Machine Shop for Company's Own Use)
*†Boll Bros. Mfg. Co. (Iron & Brass Bedsteads)
†Central Iron & Steel Co.
*†Cooper, E. N., & Co.
*Elliott-Fisher Co. (Book Typewriters & Billing Machines)
*†Harrisburg Foundry & Mach. Works (Steam Engines, etc.)
*†Harrisburg Mfg. & Boiler Co.
*Harrisburg Pipe & Pipe Bending Co. (Pipe & Coil)
*Harrisburg Roll Grinding & Corrugating Co.
*Harrisburg Rolling Mill Co. (Machine Shop for Repairs)
*†§Hickok, W. O. Mfg. Co. (Bookbinders' Machy, Iron & Brass Fdrs., Sash Weights, etc.)
†Lalance & Grosjean Mfg. Co. (See New York City)
*McKillips, Alexander
*Anthracite Separator Co.
*Harleigh Iron Works
*†§Hazleton Iron Works Co. (Fdrs. & Machinists)
*Lattimer Supply & Machine Co.
*Schmauch, Henry (Machinist)

HOKENDAUQUA—†Thomas Iron Co.

HOLLIDAYSBURG — *†§McLanahan Stone Machine Co. (Iron Fdrs. & Stone Working Machinery, etc.)

HOMER CITY—*Nix Machine Works (Machinists, etc.)

HOMESTEAD—*†Carnegie Steel Co. (Fdry. Dept.) (See Pittsburg)
*Homestead Iron Works
*†§Homestead Valve Mfg. Co. (Valves & Steam Goods, Iron & Brass Fdrs.)
*Lawson Mfg. Co. (Gas Burners & Water Heaters)
*†§Mesta Machine Co. (Rolling Mill Machinery & Castings, etc.) (See Pittsburg)
*†National Car Wheel Co. (See Pittsburg, Pa.)

HONESDALE—*Gibbs, Chas. E.
*†§National Elevator & Machine Co. (Elevators, etc.)

HOPEWELL—*†§Simon, John W.

HUGHESVILLE—*†§Snowden Bros.

HUNTINGDON—*†§Gerloch, H. W.

HYDE PARK—*†Hyde Park Fdry. & Mach. Co. Rolling Mill Mach'y & Castings)

INDIANA—*†Clymer Mfg. Co. (Tuyere Irons, etc.)
*†§Indiana Foundry Co. (Feed Cutters, etc.)

IRWIN—*†Irwin Foundry & Mine Car Co.
*Penn Electrical & Mfg. Co.

IVYLAND—*Hobensack, Wm.

JEANNETTE—*†§Clifford-Cappell Fan Co.
*Jeannette Machine Co.
*†Pittsburg Lamp, Brass & Glass Co. (See Pittsburg, Pa.)

JERSEY SHORE—*§American Balance Valve Co. (Valve Mfrs., etc.)
*†Trump, F. & E. (Iron Fdrs. Machinists)

JOANNA—*Sayers, Thomas (Jobbing)

JOHNSONBURG—*†§Johnsonburg Machine Co.

JOHNSTOWN—*†Cambria Steel Co. (Founders, Machinists & Steel Mfrs.)
*†Century Stove & Mfg. Co. (Stoves, etc.)
*§Flood City Mfg. Co. (Brass Castings, †Globe Iron & Fdry. Co. etc.)
*†Lorain Steel Co. (Grey Iron & Steel Castings, Frogs, Switches, etc.)
*†National Radiator Co. (Radiators, etc.)
*Smith, W. E. (Machinist)
*†§Suppes Forge & Foundry Co. (Iron & Brass Castings, Mining Machinery & Mine Cars)
*†Union Radiator Co. (Radiators, etc.)

KANE—*Kane Supply Co. (Machinists)

KENNETT SQUARE—*†American Road Machine Co. (Road Making Machy, etc.)
*†Good Roads Machinery Co. (Road Making Mach'y)
*†§Kennett Foundry & Machine Co.

KINGSTON — *†Kingston Mfg. Co. (A. J. Roat, Prop.)

KITTANNING—*†Hoey & Gallagher Fdy. & Machine Co., Ltd.
*†§Kittanning Iron & Steel Mfg Co.
*Kittanning Plate Glass Co. (Fdry. Dept.)
†McCulloch, Jas., Jr. (Iron Fdry., etc.)
*Pittsburg Writing Machine Co. (Typewriters, etc.)

KNOX—*Corlett & Co. (Machinists)

KUTZTOWN—*†KUTZTOWN FDRY. & Machine Co. (See Philadelphia, Pa.) (See adv. index, end of book)

LACEYVILLE—Edwards Mfg. Co. (Log Turners, etc.)
*Vandervoort, John

LANCASTER—*†§Barry & Zecher Co. (Foundry Cupolas, etc.)
*Bowman's, Ezra F. Sons (Watchmakers' Tools, etc.)
*Calder, Geo. H. (Emery Wheel Dressers)
†Carbon Steel Casting Co.
*†Champion Blower & Forge Co. (Iron Fdrs., Blowers, Portable Forges, etc.)
*Dellinger, A. M. (Machines)
*Fidelity Electric Co. (Electric Motors & Fans)
*†Fraim, Edw. T. Lock Co. (Locks, Castings, etc.)
*Hamilton Watch Co. (Watches, etc.)
*†§Hubley Mfg. Co. (Light Grey Iron Castings, Brass Pattern Work, etc.)
†Independent Foundry Co. (Cast Iron Soil Pipe)
*Koch, Alfred S. (Jewelers' Tools, etc.)
*Kreider Machine Co. (Machinists)
*†Lancaster Machine & Structural Works
*†Martin, Henry Brick Machine Mfg. Co. (Brick Machy, etc.)
*†Martin, Wm. R. (Cement Machy., etc.)
§Miller, J. Walter Co.
*National Safety Fifth Wheel Co. (Fifth Wheels, etc.)
*Nolty & Co. (Locomotive Sanders)
*Potts, D. H. (Portable Forges, etc.)
*Rote, A. B. & Co. (Bldrs.' Iron Work, etc.)
*Royal Mfg. Co. (Hand Power Machinery, etc.)
§Safe Padlock & Hardware Co. (Shelf Hdwe. & Brass Castings)
*§Slaymaker, S. R. (Car, Ship & Builders' Hardware, etc.)
*Stehman & Swan Mfg. Co. (Watchmakers' Tools, etc.)
*Vondersmith, Henry M.
*Welchans, Albert C. (Elevators, etc.)

LANDISVILLE—*Minnich Machine Works (Baling Presses, etc.)
*†Monitor Steam Generator Mfg. Co. (Heating Apparatus & Castings)

LANESBORO—*†Barnes Mfg. Co. (Machinists, etc.)

LANSDALE — *†Central Radiator Co. (See New York City)
†Cox, Abram Stove Co. (Stoves, etc.) (See Philadelphia, Pa.)
†§Heebner & Sons (Agrl. Implts., Grey Iron & Brass Castings)
*†§Krupp Foundry Co.

LANSDOWNE—†Crucible Steel Casting Co. (Steel Castings)

LATROBE — *†Gilligan, Jno. (Iron Fdry. & Machinist)

LATTIMER MINES—*†§Lattimer Fdry. & Machine Co.

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LEBANON—*†§American Iron & Steel Mfg. Co. (Grey Iron & Brass Castings & Machine Shops)
*Buchanan Fdy. Co. (Iron Fdrs.)
*Fry, Edward G.
†Lebanon Stove Co. (Stoves)
*†Lebanon Steel Casting Co. (Crucible Steel Castings)
*Louden Machine Works
*†§North Lebanon Foundry Co.
*Parthemore, J.
†§Ream Foundry
*†Treadwell, M. H. & Co.
*Union Boiler Mfg. Co.
*§Washington Steel Foundry
*†§Weimer Machine Works Co. (Rolling Mill & Blast Furnace Machinery, etc.)
*Yeagley, Franklin C.
LEETSDALE—*Tate, Jones & Co.
LEHIGHTON—†Crescent Stove & Mfg. Co. (Stoves, etc.)
†Lehigh Stove & Mfg. Co. (Stoves, etc.)
LEOLA—*Leola Machine Co.
LEONA—Ely, E. C. Co. (Hdwe. Specialties, etc.)
LERAYSVILLE—†Bailey, E. Martin (Iron Fdry. & Plows, etc.)
LEWISBURG—†New Central Foundry Co.
LEWISTOWN—*†§Lewistown Fdry. & Machine Co.
*Mann, Jas. H. (Est. of) (Tools, Axes, etc.)
*Mann Edge Tool Co. (Edge Tools, Axes, etc.)
*†Mount Rock Foundry & Machine Co.
LIMESTONEVILLE—*Gibson, H. W.
LINESVILLE—*Van Slyke, F. J.
LINFIELD—*†Mitchell & Van Meter Co. (See Philadelphia)
LOCKHAVEN—†Novelty Iron Works
LOCUST VALLEY—*†Morey, Eugene A.
LUZERNE—*†Luzerne Mfg. Co. (Mine Drills, Snyder, J. T. (Mine Drills, etc.) etc.)
McDONALD—*Tillinghast, B. D. (Machinist)
McEWENSVILLE—†Gearhart, Wm. L. & Son
McKEESPORT—†Fort Pitt Steel Casting Co. (Steel Castings)
*†Monongahela & Yough Foundry
*†§National Tube Co. (Fdry. Dept.) (See Pittsburg)
*Rosenkranz Machine Co.
*†Sheermesser, H. S.
*Smith, Nimmo & Co. (Ornamental Iron Work)
McKEES ROCKS—§†Fort Pitt Malleable Iron Co.
*Fort Pitt Spring & Mfg. Co. (See Pittsburg, Pa.)
*McKay, Jas. Co. (Chains, etc.). (See Pittsburg)
†Pittsburg Pipe & Wrecking Co.
*†Pressed Steel Car Co. (See Pittsburg)
*†TAYLOR - WILSON MFG. CO. (Iron Founders, Pipe Mill & Special Mach'y, Machine Moulded Gears, etc.) (See adv. index, end of book)
McVEYTOWN—*†Stine, Samuel R.
MACUNGIE—*†Macungie Brass & Mfg. Co.
*§Neumeyer Bros. (Brass Fdry. & Nozzles & Couplings)
MAHANOY CITY—*†§Grant Iron Works (Steam Engines & Pumps, Car Wheels, etc.)
MANHEIM—*†Bond Fdry. & Mach. Co. (Power Transmitting Machinery)
*†Hershey Machine & Foundry Co.
MARIETTA—†§Marietta Casting Co.
†Marietta Hollow Ware & Enameling Co.
MARS—*Sheridan, Jno. J. & Co. (Machinists & Drilling Tools)
MAUCH CHUNK—*†§Stroh, W. H. (Est. of (Mining Mach'y & Castings)
MEADVILLE—*Barrett Machine Tools Co. (Machine Tools, etc.)
*Champion Tool Co. (Blacksmiths' Tools)
*Dowdell, H. (Machinist)
§Erie R. R. Shops
*Lang, G. R. Co. (Clamps, Drill Sockets, Tool Holders, etc.)
*Lord, L. L. Co. (Machinists)
*McCroskey Reamer Co. (Inc.) (Chucks, Reamers, etc.)
†Meadville Malleable Iron Co (R. R. & Other Castings)
*†Page, W. H. Boiler Co. (Heaters, etc.) (Office: New York City)
*†Phoenix Iron Works Co. (Steam Engines, etc.)
*Uwanta Wrench Co. (Wrenches, etc.)
*Yost, G. M. Mfg. Co. (Vises, etc.)
MECHANICSBURG—†Comstock, Geo. S. (Mill, Mining & Farm Machinery)
*Potts Mfg. Co. (Machinists, etc.)
*Wilcox, D. Mfg. Co. (Carriage Hdwe., etc.)
MEDIA—*Wood, Wm. H. (Special Machy.), etc.)
MERCER—†Reznor Mfg. Co. (Gas Stoves, etc.)
MEYERSDALE—†Boucher. Milton H. (Iron Founder)
MIDDLETOWN—*†King Lawson Car Co. (Cars)
*†§Middletown Car Co. (Cars & Castings)
*†National Tube Co. (See Pittsburg)
*†Raymond Mfg. Co. (Stoves, etc.)
MIDLAND—*†Adams, S. Jarvis, Co. (Axle Boxes, Brake Shoes, Iron Fdrs., etc.)
MIFFLINBURG—†Albright, Jas. H. & Sons (Agrl. Implts., Cultivators, Harrows, Rakes, etc.)
MILFORD SQUARE—*Weisel, Harvey H.
MILLERSBURG—*Brubaker, W. L. & Bros. (Stocks, Dies, Taps, etc.)
*Lenker, Frank K. & Co. (Stave Machy, etc.)
*Millersburg Fifth Wheel Co. (Fifth Wheels, etc.)
*Polk, A. J. & Son (Screw Plates, Taps, Dies, Reamers, etc.)
MILLHEIM—*†Hartman, J. H. B. & Co.
MILTON—*†American Car & Foundry Co. (See St. Louis, Mo.)
*Milton Mfg. Co. (Nuts, Washers, etc.)
*†§Shimer, Saml. J. & Sons (Ettinger Cutter Heads, etc.)
MONACA—*†United States Sanitary Mfg. Co. (See Pittsburg, Pa.)
MONESSEN—*†§Monessen Fdry. & Machine Co.
*Page Woven Wire Fence Co. (See Adrian, Mich.)
*Seamless Tube Co. of America (Machine Shop for Own Use) (Office, Pittsburg, Pa.)
MONONGAHELA—*†Coshocton Iron Co. (Iron Castings, etc.)
*†Cyclops Foundry Co. (See Pittsburg)
*Herron-Webb Engineering Co. (Engines, Pumps, etc.)
*Liggett Spring & Axle Co. (Carriage Axles & Springs, etc.) (See Pittsburg, Pa.)
MONROETON—*†§Loetzer Valve & Mfg. Co. (Valves, Fire Hydrants, etc.)
MONT CLARE—†Hallman, Oliver (Cast Iron Pipe Fittings)
MONTGOMERY—*†American Woodworking Machinery Co. (Woodworking Mach'y). (See Rochester, N. Y.)
MONTROSE—*†Beach Mfg. Co. (Woodworking Machinery)
MORGANTOWN—*Sweigart, Abram (Jobbing)
MOSCOW—†Schwartz, Philip
MOUNT CARMEL—*†§Mount Carmel Iron Works (Coal Mining Machinery, etc.)
MOUNT JOY—*†§Grey Iron Casting Co. (Light & Heavy Castings)
*Rollman Mfg. Co. (Iron Novelties)
MOUNT PLEASANT—*Mount Pleasant Tool Co. (Tools, etc.)
MOUNTVILLE—*†Mountville Mfg. Co. (Agl. Implts., Plows, Planters, Corn Shellers, etc.)
MUNCY—†Artley, John (Agrl. Implts.)
*Guyer, Clinton (Machinist)
*†Robinson Mfg. Co. (Flour Mill Machy.)
*†Sprout, Waldron & Co. (Flour Mill Machy, etc.)
MYERSTOWN—†Dubble & Zinn
*Myers, E. H., & Bros (Machinists)
*†Painter, Jos. & Sons
*†Stoever Fdry. & Mfg. Co. (Pipe Cutting & Threading Machines, Heavy Castings, etc.)
NANTICOKE—*Bittenbender, W. W. & Co. (Machinists & Mine Drills)
NAZARETH—*†Emerich, Geo. R. (Cement Machinery)
NEW BRIGHTON—†Damascus Crucible Steel
§Keystone Bronze Co. Casting Co.
*Leard, W. E. (Engines, etc.)
*Pittsburg Machine Co. (Gas or Gasoline Engines)
§Riedel & Sons Mfg. Co.
*†Standard Sanitary Mfg. Co. (See Pittsburg, Pa.)
*Townsend, C. C. & E. P. Co. (Wire Rivets, Nails, etc.)
NEW CASTLE—*§American Car & Shipbuilding Co. (Brass Car Trimmings & Castings)
*†Douds, Frank C. & Co. (Steam Specialties, Castings, etc.)
*New Castle Forge & Bolt Co.
*†Penna Engineering Works (Rolling Mill Mach'y. & Castings)
†Stove & Range Co. of Pittsburg
NEW HOLLAND—*†New Holland Machine Co. (Stone Crushers & Feed Mills)
NEW KENSINGTON—†Allegheny Valley Malleable Iron Co.
*†Aluminum Co. of America. (Office: Pittsburg)
§Aluminum Cooking Utensil Co.
*†Union Spring & Mfg. Co. (Springs, Steel Castings, etc.)
NEW OXFORD—*†Weaver, Frank L. (Feed Cutters, etc.)
NEWPORT—†Juniata Furnace & Foundry Co. (See Phila., Pa.)
NEWSIDE—*†Peters, F. N. & Bro. (Iron Railings, etc.)
NEWVILLE—*Whistler, J. C.
NORRISTOWN—*†Fowler & Wolfe Mfg. Co. (Radiators). (See Phila., Pa.)
*†Haines, Jones & Cadbury Co. (See Philadelphia)
*Lowndes & Butler
*†Newbold, R. S. & Son Co. (Rolling Mill Machy. & Castings, etc.)
*Reading Screw Co. (Screws & Specialties)
*Rittenhouse, Frank (Confectioners' & Tack
*Rittenhouse, Wm. H. Machy., etc.)
*Walton, Luther
*Wilcomb Machine Co. (Knitting Machinery)
*†§Wildman Mfg. Co. (Knitting Machines)
NORTH EAST — *§Eureka Tempered Copper Works (Commutators, etc.)
*†Fernald Mfg. Co. (Hardware & Harness
*†Pabody, Jno. D. Specialties)
NORTH GIRARD—*Federal Electric Co. (Electric Generators, Motors, etc.)
NORTHUMBERLAND — *Keystone Forging Co. (Fifth Wheels, etc.)
NORTH WALES—*Armstrong Truck Co. (Trucks & Casters)
*†North Wales Foundry Co. (Stoves, etc.)
*†North Wales Machine Co. (Hack Saw Machines, Bench Grinders & Castings)
OAKHALL STATION—*†Sellers, Edward (Corn Planters, Feed Cutters & Land Rollers)
OGONTZ—*Hammond, C. & Son. (Edge Tools, Hammers, Sledges, etc.)
OIL CITY—*Boardman, Robt. Co. (Oil & Gas Well Tools, etc.)
*Condrin, Wm. (Machinist)
*†Holbeck-Riverside Gas Power Co. (Gas Engines, Compressors, etc.)
*Logan, A. W. (Engines, etc.)
*Logan, Robt. (Engines & Oil Well Supplies)
*†Oil City Boiler Works (Steam & Gas Engines, etc.)
†Oil City Foundry Co.
*†§Oil Well Supply Co. (See Pittsburg, Pa.)
*†§Reid, Jos. Gas Engine Co. (Gas Engines, etc.)
*Simon, August (Macsinist)
ORANGEVILLE—*†Connor, J. W. & Son (Agrl. Implts. & Castings)
ORBISONIA—*†§East Broadtop R. R. & Coal Co.
OSCEOLA MILLS—*†§Stine, S. B. (Mine Fans, Haulage, Engines, etc.)
PARKESBURG—*Parkesburg Iron Co. (Machine Shop Connected with Works)
PATTON—*Cole Bros. (Machinists)
PENN STATION—†American Fdry. & Pipe Co. (See Pittsburg, Pa.)
*†Hockensmith Wheel & Mine Car Co.
PERKASIE—*Kramer, Wm. K.
PETROLEUM CENTER—*Bets, W. L.
PETROLIA—*Berry, John
PHILADELPHIA—†Adams, Wm. Fdry. Co. (Iron Fdrs., Builders' & Other Castings, etc.), 960 N. 9th
§Adams & Westlake Co., 2042 N 10th. (See Chicago, Ill.)
§Ajax Metal Co. (Brass Fdrs., Smelters & Bearings, etc.), 48 Richmond
*Albro-Clem Elevator Co. (Elevators), 7th & Glenwood av
*Allen, Alonzo W. (Machinist), 2423 Mascher
*Allen, A. & Co. (Machinists), 2001 Carpenter
*Allen Iron & Steel Co., 3rd & Venango
*†Allen, S. L. & Co. (Agrl. Implts.), 1107 Market
*Altemus, Jacob K. (Textile Machy.), 2824 N 4th
*†§American Bridge Co. of New York (Pencoyd Works), Penn. bldg.
*†American Drying Machinery Co., 3301 N 19th
*†American Fork & Hoe Co. Ashland nr Fkd. Creek, Fkd. (See Cleveland, O.)
*American Insulating Machinery Co. (Wire Winding Machy., etc.), Oxford cor. N. Hancock
*American Metal Edge Box Co., 2115 S 8th
*American Metal Works, 326 Armat, Gtn
§American Meter Co., 100 N 22d
*†American Pulley Co. (Pulleys, Bushings, etc.), N 29th & Bristol
*Atlantic Works (Inc.) (Woodworking Machinery), 28th & Gray's Ferry rd

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*Baeuerle & Morris (Sugar Machinery), 932 N. Front
*Bagshaw & Field (Machine Tools), 317 Cherry
*†Baizley, Jno. Iron Works (Builders' Iron Work & Castings), 514 S Del. av
*†Baldwin Locomotive Works (Locomotive Builders), 500 N Broad
*Barber & Furner (Machinists), 429 N Orianna
*†Barker, Jas. (Iron Foundry, Cotton & Woolen Mach'y & Grey Iron Castings), N 6th & Cayuga
*Barnett, G. & H. Co. (Files, etc.), 1076 Fkd av
*BECK, CHAS. CO. (Paper Box Machinery, etc.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)
§Belfield, H. & Co. (Brass Fdrs., Steam Specialties, etc.), 435 N Broad
*†Bellwood Mfg. Co. (Iron Fdrs. & Machinists), Penn Sq bldg. Works, Bellwood, Pa.
†Belmont Iron Works, Real Estate Trust bldg
*†Bement Miles Pond Co., 21st, c. Callowhill. (See Niles, Bement, Pond Co.)
*†Bernstein Mfg. Co. (Metallic Bedsteads, Grey Iron Castings, etc.), 3rd & Allegheny av
†Biggin, Chas. P. Co. (Iron Fdrs. & Bldrs. Iron Work), 1829 Harlin
*Bilgram, Hugo (Gears & Gear Cutting), 1235 Spring Garden
*Billington, Jas. H. Co. (Textile Machy.), 113 Chestnut
§Bircher, Geo. (Brass Fdr., etc.), 716 Cherry
*Blessing, C. A. (Plumbing Specialties, etc.), 516 Montgomery av
*Boekel, Wm. & Co. (Metal Spinning, Force & Test Pumps, etc.), 518 Vine
*Borchers, Richard C. & Co. (Textile Machinery), Womrath & Tackawanna
*Borger, Jos. (Butchers' Tools, etc.), 2035 N 2d
Boureau, H. U. & Co. (Builders' Iron Works, etc.), 3302 Ludlow
*Bourquin & Sons, 445 N 5th
*Box, Alfred & Co. (Cranes, Hoists, etc.), 813 N Front
*Bradford Wool Comb Co., 2630 Mascher
*Branson Machine Co. (Textile Mach'y), 506 N American
*†Braun, Jno. & Sons (Lawn Mowers, etc.), 1615 N 23d
*Brenner, Jos., 2d c Diamond
*Brewer Bros. (Bldrs.' Hdw., etc.), 614 Filbert
*§Bridgman Bros. Co. (Plumbers & Steam Fitters Brass Goods & Castings), 1422 Wash'n av
*§Brill, J. G. Co. (Car Builders, etc.), S 62d & Woodland av
*Brinton, H Co. (Knitting Machy.), 213 Race
*Brohard Co. (Hardware Specialties, etc.), 1624 N 9th
†Brown, E. E. & Co. (Iron Fdrs. & Mfrs. of Sash Weights & Specialties), McKean & Meadow
§Buckley, Walter F., 627 Filbert
*Bullock, Chas. K. (Flour Mill Machy.), 1361 Ridge av
*§Bureau Bros. (Bronze & Brass Fdrs. & Statuary, etc.), N 21st & Allegheny av
*†§Butterworth, H. W. & Sons Co. (Textile Machy.), E York & Cedar
*Campbell, P. F. (Millwright & Machinist, Steam Engines, Grinding Mills, etc.), 51 Laurel
*Carnell, Geo. (Est. of) (Brick Machinery), 1819 N 5th
*Carr, Jos. Co. (Special Machy. & Optical Grinding Tools), 132 N 7th
*Carver File Co., 3233 Franklin av
§Caskey, Wm. & Son (Brass Fdrs. etc.), Beach & E Norris
*Central Machine Co. (Machinists), 732 Sansom
*†§Chambers Bros. Co. (Brick & Paper Folding Machinery, etc.), N 52d & Lancaster av
*†Chester Steel Castings Co. (Open Hearth Steel Castings), 407 Sansom
*Chesterman & Streeter (Metal Specialties, etc.), 127 N 7th
*Clad, V. & Sons (Inc.) (Cooking Apparatus, French Ranges, etc.), 239 S 12th
†Clark's Iron Foundry (Grey Iron Castings), Gray's Ferry av c S 35th
§Clay, John H. (Brass Finisher & Fire Dept. Supplies, etc.), 1320 Ridge av
*Cocker Machinery Co., 4043 Paul, Fkd
§Cohocksink Brass Foundry, 439 Berks
*Coles Mfg. Co. (Grinding Mills, etc.), 1615 N 23d
*Colladay, Jos. O. Co. (Woodworking Machinery), 624 Race
*Cook, Stephen S. (Machinist), 624 Race
*Cooper, Dyer (Machinst & Pumps), 614 N 3d
*Cooper Sanitary Mfg. Co. (Plumbers' Brass Work)
*†Cox, Abram Stove Co. (Stoves & Heating Apparatus), N American c Dauphin
*†Cox & Sons (Inc.) (Steam Engines & Pipe Cutting & Thearding Machines), Lafayette bldg. Works: Bridgeton, N. J.
*Coyle, H. B. Iron Works, 622 Filbert
*†§Cramp, Wm. & Sons Ship & Engine Building Co. (Steel Ships, Marine Engines, etc.), 546 Phila. Bourse
§Crescent Phosphorized Metal Co. (Phosphor Bronze, Copper & Tin), 2314 Wood
*†§Cresson, Geo. V. Co. (Power Transmission Mach'y, etc.), 18th & Allegheny av
*†Creswell, Saml. J. Iron Wks. (Inc.) (Iron Fdrs. & Bldrs.' Iron Work), Cherry & N 23d
*†Crompton & Knowles Loom Works (See Worcester, Mass.)
*DALLETT, THOS. H. CO. (Pneumatic Tools, etc.), 2300 York. (See adv. index, end of book)
*DAVIS, RODNEY (Gears), 626 Race. (See adv. index, end of book)
*De-El-Ite Mfg. Co. (Electrical Specialties), 4901 Swenton av
*Defiance Mfg. Co., 4153 Frankford av
†Deily & Fowler Mfg. Co. (Gas Tanks etc.), 39 Laurel
*Deissler, P. & Bro. (Machinists), 249 S 6th
*†§Devlin, Thos. Mfg. Co. (Malleable & Grey Iron & Brass Fdrs., Malleable Iron Fittings & Carriage & Saddlery Hardware, etc.), N 3d & Lehigh av
*Dewees, Jno. W. (Machinist), 640 Filbert
*Diamond Textile Machine Works (Textile Machy, etc.), C, nr E Westmoreland
*†Dienelt & Eisenhardt (Inc.) (Iron Fdrs.' Hydraulic Jacks, Power Hammers, etc.), 1304 N Howard
*Dietz Machine Works (Envelope, Cigarette & Match Box Machy), 126 Fontain
*Dill, T. C. Machine Co. (Machine Tools & Slotting Machines, etc.), Fairhill, P. O.
†Diller, Caskey & Keen (Stoves & Light Castings), N 6th c Berks
*†Disston, Henry & Sons (Inc.) (Saws, Tools, etc.), Tacony & N Front, c Laurel
*†Dodge, J. M. Co. (Elevating & Conveying Machinery, etc.), McKean av c Napier, Gtn
*Dunn, Robert N., 1850 Hope
§Dunn & Eldrige (Brass & Bronze Hdwe. etc.), 6 N. 6th
*Earle Gear & Machine Co. (Cut Gears, etc.), Stenton & Wyoming av., Gtn
*Electric Storage Battery Co. (Storage Batteries, etc.), N. 19th & Allegheny av
*§Ellis, G. D. & Sons Co. (Brass Specialties, etc.), 229 Vine
*Ellison Bros. (Machine Tools, etc.), Scattergood, nr Eadom, Fkd
*Energy Elevator Co. (Elevators), 214 New
*†Enterprise Mfg. Co. of Pa. (Meat Choppers, Lawn Mowers & Sprinklers, & Hdw. Specialties, etc.), N 3d & Dauphin
*Espen-Lucas Machine Works (Machine Tools, Cold Saws, etc.), 342 N. 15th
*Evans, Jno. Sons (Car & Carriage Spring & Leather Machy), 506 N 13th
§Evans, S. W. & Son (Brass Goods), 4623 Paul, Fkd
§Excelsior Brass Works, 1517 Spring
*§Eynon-Evans Mfg. Co. (Engineers' Specialties & Brass Composition Castings), 1509 Clearfield
†Fairmount Foundry Co., 2106 Wood
*†Fay Machine Tool Co. (Machine Tools, etc.), 2d & Glenwood av
*Fischer Machine Co. (Paper Bag & Special Machy.), 1217 Race
*†Flagg, Stanley G. & Co. (Iron & Steel Fdrs., Steam Pipe Fittings), Morris bldg
*†Florence Iron Works (Iron Fdrs. & Machinists), 400 Chestnut. Works, Florence, N. J
*§Ford Bros. & Co. (Machinists & Brass Fdrs.), 1610 S. Front
†Ford & Kendig Co. (Iron Pipe, etc.), 1428 Callowhill
*†Fowler & Wolfe Mfg. Co. (Radiators, etc.), Bourse bldg. Works: Norristown, Pa.
*§France Packing Co., Inc. (Metallic Packing, etc.), 6512 State rd, Tac.
*†Frankford Foundry & Machine Works (Power Presses, Edge Tool Machinery, etc.), Fkd
§Fullerton, Frank S. (Brass Fdry. & Smelter), 438 E Girard av
*§Furlow & Co. (Plumbers' Brass Goods, etc.), 2020 E. Willard
†Gaumer, John L. Co. (Bldrs. Iron Work, etc.), 22d c Wood
*Gefrorer, C. & Son (Gas Burners & Brass Goods), 248 N 6th
*General Engineering Co. (Machy. Repairs, etc.), 764 Swanson
†Gensel, Fred. & Co. (Iron Railings, etc.), 911 Vine
*Genth, Chas. H. (Machinist), 2007 Oxford
*Germantown Tool Works (Tools, etc.), 57 Armat, Gtn
*Gibson Gas Fixture Works, 1426 Callowhill
†Girard Iron Works (Iron Fdrs. & Machinists, Brewers' Machy, Castings, etc.), N 22d & Master
*Girard Machine & Tool Co. (Machy. & Tools), 491 N 3d
*Glaser Mfg. Co. (Machinists), 2733 N 6th
*†§Globe Machine & Fdry. Co., Inc., Tackawana & Church, Fkd
†Glover Bros. (Iron Founders & Hdw. Specialties), Paul & Vandyke, Fkd.
*Gray's Ferry Machine Co. (Ltd.) (Engines, Special Machinery, etc.), 3105 Gray's Ferry rd
*Griffin, Jno. J. & Co. (Gas Meters, etc.), 1513 Race
*§Griffiths, Jas. A. (Injectors, etc.), 500 N 12th
*Grissinger Machine Works, 904 Quarry
§Guest, Geo. (Awning Frames, etc.), 4423 Ludlow
*§Haines, Jones & Cadbury Co. (Brass Fdrs., Plumbers' Brass Goods & Supplies), 1136 Ridge av. Works, Norristown, Pa.
*§Hale & Kilburn Mfg. Co. (Car Seating, etc.), 18th & Lehigh av
*§Halstead & Co. (Brass Fdrs. & Finishers), 1129 Cherry
*Haltons, Thos. Sons (Textile Machinery), E Allegheny av & C
*Hankey, A. & Co., 1213 Race. (See Rochdale, Mass.)
*Harman Bros. (Engineers & Machinists), 17th & Washn av
*Harrington, Edwin Son & Co. (Machine Tools, Chain Hoists, etc.), N 17th & Callowhill
*†Harrison Safety Boiler Works (Feed Water Heaters, Separators, Ice Breakers, etc.), 17th below Allegheny
*Harrison's, Wm. H. Sons (Engineers & Machinists), 1708 Ludlow
§Hartman Co. (Valves, Tuyeres, Coolers, Liquid Cinder Cars, etc.), 1231 N Front
*Harton, Pembroke D. (Bakers' Machy), 1431 Fairmount av
*Haskell-Dawes Machine Co., Trenton & Erie avs
*Hawkins-Wilson Co. (Steel Die Stamping Presses), 712 Sansom
*Heilprin Mfg. Co. (Air Rifles, etc.)
*§Heller & Brightley (Mathematical Instruments), Ridge av & Spring Garden
*Helme & McIlhenny (Gas Meters, etc.), 1339 Cherry
*Henderson Machine Co. (Machy. Mfrs.), 5032 Gtn. av
*§Hentschke, Albert & Son (Surgical & Dental Instruments, etc.), 731 Race
*Hepworth, Jno. W. & Co. (Textile Machy), cor Mascher & Lehigh av
*Hess-Bright Mfg. Co., 19th & Hamilton
*Hess Machine Works, Jno. A. Hess (Machinist & File Machy), 2512 Callowhill
*Hess & Barker (Engineers & Machinists, Tablet Machines), 605 Sansom
*§Hey, M. Mfg. Co. (Brass Fdrs. & Brewers' Specialties), 637 N 3d
†Hill, B. B. Mfg. Co. (Copying Presses, etc.), 1020 New Market
†Hitzeroth, Edward (Builders' Castings, etc.), 3120 Market
*Hodson, G. & A. Pulley Depot (Pulleys, etc.), 226 Arch
*§Homer Brass Works (Inc.) (Brass Fdrs. & Finishers), 231 Race
*Hood, R. H. (Worsted & Curled Hair Machinery), 1842 Gtn. av
*†Hoopes & Townsend Co. (Bolts, Nuts, Washers, etc.), 1330 Buttonwood
§Horn & Brannen Mfg. Co. (Inc.) (Gas Fixtures & Brass Fdrs.), 427 N Broad
*Horridge & Hinman (Machinists), 628 Race

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*†Horrocks Iron Works (Builders' Iron Works), 234 N Broad
*Howell, F. R. Brass Works (Brass Hose Fittings, etc.), 122 N Franklin
*Hub Machine Welding & Contracting Co. (Metal Sawing Machines, etc.), 621 Cherry
*Hughes & Russum (Beaming Machines, etc.), 4424 Hedge, Fkd
*Hunter, Robt. & Son (Textile Mach'y), Bristol & Gtn. av
*Ideal Machine Co. (General Machine Work), 316 N 22nd
*Insinger Co. (Dish Washing Machines, etc.), Stenton av above Wayne Junc.
*International Sprinkler Co. (Automatic Sprinklers), 517 Arch
*Jaeger Automatic Machine Co. (Slot Machines), 2238 N 9th
*Jesson, Jno. B. (Machinist), 208 New
*Johnson, Israel H., Jr., Co. (Machine Tools), 337 N 15th
†Juniata Furnace & Foundry Co. (Iron Fdrs.), 30 Girard av
*Kaltenthaler, Henry J. (Flanges & Flange Fittings, etc.), 230 Cherry
†Kappler-Fox Foundry Co. (Stoves, etc.), E York c Thompson
*Keller Mfg. Co. (Dish Washing Machines, Vacuum Cleaners, etc.), 21st & Allegheny av
*†Kensington Engine W'ks (Engines, etc.), Beach & E Berks
*Keystone Electrical Instrument Co. (Electric Instruments), 901 Montgomery av
*Keystone Elevator Inspection & Repair Co. (Elevators), 1011 Chestnut
*Keystone Spring Works (Carriage Springs, etc.), 500 N 13th
*Keystone Structural Co. (Steel Structural Work), Harrison bldg
*Kinetic Electric Co. (Dynamos & Motors)
§Kirn, M. L. & Bro. (Brass Fdrs.), 2135 N Leithgow
§Kitson Hydro-Carbon Heating & Incandescent Lighting Co. (Kitson Hydro-Carbo Lamps, etc.), 1230 Callowhill
§Klause Chas. (Brass Fdry. & Metal Spinning), 1204 Nectarine
*Klein, Chas. C. (Mill Engineer & Machinist), 2850 N Marshall
†Koch & Fox (Iron Fdrs. & Sash Weights), N 22d & Glenwood av
*Kruger & Blind Co., 513 Master
*†KUTZTOWN FOUNDRY & Machine Co. (Boiler Fronts, Grate Bars, Compound Separators, etc.), 116 N Broad, (See adv. index, end of book)
*Lampe, H. (Machinist), 115 N Front
*Lanston Monotype Machine Co. (Machinists), 1231 Callowhill
*†Liberty Stove Co. (Ranges, Furnaces, etc.), 114 N. 2nd
*Lindsay, Hyde & Co., 2130 E. York
*†LINK BELT COMPANY (Elevating & Conveying Machinery), Hunting Park av & Reading ry. (See adv. index, end of book)
*§Lonergan, J. E. & Co. (Brass Fdrs. & Finishers & Steam Specialties), 211 Race
*Loomis-Manning Filter Co. (Water Filters), Land Title bldg
*Lorimer Machine Co. (Textile Machy.), Ontario & N Lawrence
*Lovekin Pipe Expanding & Flanging Machine Co., 421 Chestnut
§Lukens, Thos. F. (Canning Factory Supplies), 238 N 4th
*Lusse Bros. (Machinists), 819 N Lawrence
*Lutner, Wm. Machinist), 1603 S Front
*Lynwood Mfg. Co., Westmoreland c N 2d
*McCaffrey File Co. (Files, etc.), 1842 N 5th
§McHatton Smelting & Refining Co. (Brass Fdrs. & Smelters), 1500 Washn av
*McMichael. Abner (Machinist), 22 Armat, Gtn
*McNiece, Wm. & Son (Saws, etc.), 515 Cherry
*Maerky, Emil, 132 Arch
*Maignen, P. A. (Filter Mfrs.), 52 N 13th
*Maris Bros. (Cranes & Hoists, etc.), S 56th & Gray's av
§Massa, George (Locks, etc.), 232 Ionic
*Mayall, Lewis A. & Son (Machinist), 803 Locust
*Meehan, F. E., 609 Commerce
†Meerbach & Schneider (Iron Founders, Machy. Castings, etc.), 1612 Vandike, Fkd.
*Mercury Machine Co. (Inc.) (Key Seating Machines), 2117 N Broad
§Metal Art Co., 2633 Bodine
*Metz, R. O. Mfg. Co. (Steam Specialties, etc.), 608 N Hancock
*Midland Metal Co. (Inc.) (Ornamental Brass & Bronze Work), 21st & Jefferson
*†Midvale Steel Co., Nicetown
*§Miller Lock Co. (Locks, etc.), 4523 Tacony
*§Mills, Thos. & Bro. (Inc.) (Brass Fdrs. & Confectioners' Mach'y), 1301 N 8th
*Mitchell, John (Millwright, Machinist & Bldrs.' Iron Work), 2224 Vine
*†Mitchell & Van Meter Co. (Cast Iron Soil Pipe, etc.) Phila. Bourse. Works, Linfield, Pa.
*†Moore & White Co. (Iron Fdrs. & Machinists, Paper & Pulp Mill Mach'y, etc.), N 15th & Lehigh av
*Morris Engineering Co. (Hydraulic & Special Machinery), 333 Walnut
§*†Morris, I. P., Co. (Engines, Pumps, Turbines, Castings, etc.), Beach & Ball
*†MORSE, WILLIAMS & CO. (Elevators, Worm Gears, etc.), West End Trust bldg. (See adv. index, end of book)
§Mousley, Chas., & Sons (Brass & Bronze Castings & Ship & Car Hardware Mfrs.), 457 N 12th
*Mumford, E. H. Co., 17th & Callowhill
*Murset, Fred'k A. (Models & Experimental Work), 830 Race
*§Nacke, A. & Son, 236 S 9th
*National Automatic Knitter Co. (Inc.) (Textile Mach'y, Knitting Machines, etc.), 728 Cherry
*National Metal Edge Box Co. (Metal Edge Box Machines), 8th & Willow
*National Specialty Mfg. Co. (Drug Mills, etc.), N 3d & Lehigh av
*†Naylor Engineering & Mch. Works (Engineer & Iron Fdry.), N Front & Girard av
*Nazel Engineering & Machine Works (Machinists & Machine Tools, etc.), 4041 N. 5th
*§Newell Brass Mfg. Co., 443 N Broad
*†Newton Machine Tool Works (Inc.) (Machine Tools), 2347 Vine
*†Niles-Bement-Pond Co. (Machinists & Machine Tools), Mifflin, c Meadow. (See New York City)
§North American Smelting Co. (Babbitt Metal, Brass and Phosphor Bronze, etc.), 900 Thompson
*†§North Bros. Mfg. Co. (Brass & Iron Fdrs. Hardware & Specialties), Lehigh av, c N American
*Northern Machine W'ks, 2008 N Leithgow
*Novelty Electric Co. (Electric Specialties), 50 N 4th
*Nye & Tredick Co. (Textile Mach'y), 720 Cherry
*O'Neill Elevator Co. (Elevators), 628 Cherry
§Oat, Jos. & Sons (Sugar Machy. & Coppersmiths), 232 Quarry
*Oldham, Geo. & Son (Pneumatic Tools), 1828 John, Fkd.
*Oliver, J. H. & Co., 1414 S Penn Sq
*Olsen, Tinius & Co. (Testing & Hydraulic Mach'y), 500 N 12th
*Orum, Morris L. (Machinist), 503 N 11th
§Ott, Geo. F. (Iron & Brass Works), 209 Buttonwood
*†Otto Gas Engine Works (Gas Engines), S 33d & Walnut
*Paiste, H. T. Co. (Electrical Specialties), N 32d c Arch
*†Pancoast, Henry B. & Co. (Iron Pipe, Fittings, etc.), 243 S 3d
*Parham & Lawser (Machines, etc.), 712
*Parsons, Paul J., 2531 Poplar Cherry
*Partrick, Carter & Wilkins (Electrical Specialties), N 22d c Wood
*Paxton & O'Neill (Knitting Machines), 541 N 3d
*Peerless Belt Lacing Machine Co. (Belt Lacing Machines), S Swanson & Moore
*Penna. Forge Co. (Forges), Wakeling, nr Stiles, Bgd.
*†Penna Steel Co. (Railroad Specialties & Steel Mfrs., etc.), 1421 Chestnut. Works: Steelton, Pa.
*§Perkes, Chas. (Brass Fdr. & Plumbing Goods), 627 Arch
*†Perseverance Iron Foundry (Ltd.) (Iron Fdrs.), 822 Latonia
*Philadelphia Drying Machinery Co. (Drying Mach'y, Fans & Presses), 6721 Gtn. av
*Philadelphia Electrical & Mfg. Co. (Electrical Specialties), 1232 N. 31st
*Philadelphia Gear Works (Inc.) (Gears, etc.), 12th & Vine
*†Philadelphia Hardware & Malleable Iron Works, 9th & Jefferson
*Philadelphia Hydraulic Works (Engines & Pump Repairs, etc.), 1218 Cuthbert
†Philadelphia Iron Works, 418 N 18th
*Philadelphia Lawn Mower Co. (Lawn Mowers, etc.), 3101 Chestnut
*Philadelphia Machine Screw Works, 624 Race
*Philadelphia Novelty Mfg. Co. (Inc.) (Hardware Specialties, etc.), 427 N 13th
*Philadelphia Roll Works, 212 N Darien
*†Philadelphia Roll & Machine Co. (Rolling Mill Mach'y & Castings), S 23d & Washn. av
*Philadelphia Spring & Axle Works, 1439 N Hutchinson
†Philadelphia Stove & Iron Foundry Co. (Iron Fdrs. & Stoves, Ranges & Grey Iron Castings), 1631 N 5th
*Phila. Textile Machinery Co. (Textile Machinery), N Hancock & Somerset
*†Phoenix Iron Co. (Iron Founders & Machinists & Steel Mfrs.), 410 Walnut. Works, Phoenixville, Pa.
§Phosphor-Bronze Smelting Co. (Brass, Bronze & Composition Castings, etc.), 2200 Washington av
*Plumb, Fayette R. (Inc.) (Edged & R. R. Track Tools, etc.), Tucker & Penna. R. R., Fkd.
*Power, L. & Co. (Woodworking Machy.), 20 S 23d
*Pressed Steel Mfg. Co. (Ball Bearings, Bearings, etc.), Phila. Bourse
*†Quaker City Metallic Bedstead Co., 1600 Washington av
*Railway Steel Spring Co. (R. R. Springs, etc.), 1028 Newmarket. (See New York City)
*§Reading Foundry & Supply Co. (Plumbers' Brass Goods, etc.), 1423 Walnut
*Reed, Chas. J. (Furnaces & Separators, etc.), 23rd & Hamilton
*§Reeves, Paul S. & Son (Brass & Composition Castings & Bearings, etc.), 1425 Catharine
*Rehfuss, George & Sons, 1311 S Carlisle
*Reid, A. H. Creamery & Dairy Supply Co. (Creamery Mach'y., etc.), 69th & Haverford
*Reid, Robert, 71 Laurel
§Reyburn-Hunter & Co. (Lightning Rods, etc.), 494 N American
*Rich, J. & G. (Machinists), 120 N 6th
*Richards Bros. (Machinists), 4365 Main, Manyunk
*Riehl, H. & Son (Machinists), 1130 N Orianna
*†Riehl Bros. Testing Machine Co. (Testing Machines, Jacks, Presses, etc.), 1424 Ritter
*Ritter Machine Co., 233 Cherry N 9th
†Robson, Chas. & Co. (Iron Fdry., Grate Bars & Castings), 8th & Washington av
*§Rohrman, Theo. B. (Brass & Grey Iron Castings), 30th & Chestnut
§Rosenthal's, Jos. Sons (Brass Fdrs., etc.), 188 Berks
*Rossmassler-Bonine Electric Co. (Electric Motors), 1236 N. Orkney
*Roth, Gottlieb, 602 Beach
*Rowan, Hy. J., Jr. (Machinist), 2030 Sansom
*Rudolph, Wm. F. (Machinist), 649 N. Broad
*Rumsey Electrical Co. (Electrical Specialties), 1211 Filbert
*Rutschman, Oscar F. (Soap Machinery, etc.), 426 Berks
*Ruwell, Wm. F. (Engine Repairs, etc.), 718 Noble
§Savill, Thos. & Sons (Brass Fdry. & Finisher, Plumbing Goods), 220 N 11th
§Schaefer, Emil (Brass Fdr. & Coppersmith), 1322 N 5th
*Schaeffer Machine Works (Special Heavy Mach'y), 35th & Gray's Ferry rd
*†Schaum & Uhlinger (Textile Mach'y, Looms, Iron Fdrs., etc.), North Penn Junction
*Schiller, Fred'k & Co., 323 N 3d
*Schiller & Co. (Cylinder Re-Boring & Machinists), 820 Cherry
*Schober, Geo. M., 3231 Market
§Schoenewald, Robert, 1027 Ridge av
*†Schofield, Wm. Co. (Iron Fdrs. & Textile Mach'y), Kram's av nr Silverwood, Manayunk
*Schramm, Christian D. & Son, 308 N 4th
*Schutte & Koerting Co. (Steam Specialties), 1251 N 12th
*Scott & Williams (Knitting Mach'y), 2079 E Cumberland
*†Scullin, Simon, 2900 N American
*Seifert, Chas. H. (Machinist), 158 York
*†§Sellers, Wm. & Co. (Inc.) (Machine Tools & Heavy Machy), 1600 Hamilton
§Sheeler-Hemsher Co. (Brass Fdrs.), 811 Fairmount av

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*†Sheppard, Isaac A. & Co. (Stoves, Ranges & Furnaces), 4th, cor Montgomery av
§Shimer, H. M. & Co. (Smelters, etc.), S 19th & Wash'n av
†Shuster Plumbing Supply Co. (Iron Fdrs., Cast Iron Pipe & Plumbers' Castings, etc.), 411 N Franklin
*Sigler, Samuel, 310 Master
*Simon, Omer, 3829 Pearl
*Smith-Drum & Co., 2503 Coral
*†Smith & Furbush Machine Co. (Textile Machy.), Hancock & Somerset
*Snediker, Jas. F., 139 N 7th
†Sobers, Jacob (Iron Fdry.), 1114 Gtn. av
*†Southwark Foundry & Machine Co. (Engines, Rolling Mill Machy, etc.), 430 Washington av
*†Specialty Engineering Co. (Elevating & Conveying Appliances), Emerald & E Cornwall
*Sprague, Wm. & Co. (Machinists), Witherspoon Bldg.
*Standard Cast Iron Pipe & Foundry Co. (Cast Iron Pipe & Castings), 114 Broad. Works: Bristol, Tenn.
*Standard Machine Co. (Inc.) (Textile Machinery), 508 Ludlow
*Standard Meter Co. (Gas Meters, etc.), 3117 N 12th
*†§Standard Roller Bearing Co. (Ball & Roller Bearings), 50th & Lancaster
*†Standard Steel Works (Steel Castings, etc.), Harrison bldg
*Standring, Saml., Somerset & Hope
*Stanton & Lewis (Textile Mach'y.), 316 Florist
*Stiffel & Freeman (Safes, etc.), 723 Chestnut
*Stokes, F. J. Machine Co. (Pharmaceutical Machy., etc.), 17th, c. Cambria
*†Stokes & Parrish Elevator Co. (Elevators), 12th & Sansom
*†Stokes & Smith Co. (Paper Box Machinery), 1011 Diamond
*Stortz, John T. & Son (Tools, Dies, Punches, etc.), 210 Vine
*Stow Flexible Shaft Co., Callowhill, c. N 26th
*†Straub, A. W. Co. (Grinding Mach'y, etc.), 3737 Filbert
*Sugar Apparatus Mfg. Co. (Sugar Mch'y), 326 Chestnut
*Sulzer & Co. (Gas Fixtures, etc.), 821 Cherry
§Supplee Elevator Co. (Elevators), 3207 Spring Garden
§Sutterly, G. T. & Co. (Silverplated Ware & Brass Goods), 19th & Hamilton
*Sweigard, Jos. L. & Co. (Pneumatic & Pump Mach'y), Betz bldg
*Tabor Mfg. Co. (Fdry. Molding Machines, etc.), 18th & Hamilton
*†Tacony Iron Co. (Cast Iron Soil Pipe, Turbine Pumps, etc.), Tacony
*§Talmage & Weidley (Brass Fdrs.), 230 N 15th
*†Thomas-Roberts-Stevenson Co. (Stoves, etc.), McKean c S 3d
*Thompson Bros. (Machinists), 123 N 5th
†Thompson, J. & Co. (Iron Fdrs. & Machinists, Valves, Fire Hydrants & Castings, etc.), Van Horn & Sophia
*Tilghman-Brooksbank Sand Blast Co. (Sand Blast Machinery, etc.), 1126 S 11th
†Tioga Foundry Co. (Loam, Green & Dry Sand, Mach'y & R. R. Castings, etc.), N 22d & Allegheny av
†Tioga Steel & Iron Co. (Iron Fdrs., Iron & Steel Forgings), 52d & Gray's av
*Tromner, Henry (Scales, etc.), 911 Arch
*Turner Machine Co. (Sprue Cutting Machines, etc.), 3632 N Lawrence
*Underwood, H. B. & Co. (Cylinder Boring Bars, etc.), 1025 Hamilton
*Union Machine Works & Iron Foundry (Grey Iron Castings), 1825 So Water
*†Union Traction Co. (Fdry. Dept.)
*United States Metallic Packing Co. (Metallic Packing, etc.), 427 N 13th
*†§United States Navy Yard, League Island
§United States Smelting Works (Smelters, etc.), 1615 Spring Garden
*Universal Machine Works, 1060 Gtn. av
*Walker, Edward A., 1015 Fkd. av
*Walker Electric Co. (Electric Switches, etc.), 2338 Noble
*Walker, Thos. & Sons, 4617 Tacony, Fkd
*Walters, Geo. C., 1316 Ellsworth
*Walton, P. M. (Machinist & Millwright), 1025 Gtn. av
†Ward, Joseph T. (Iron Railings, etc.), 5918 Baynton, Gtn
†Waters, D. A. Co., 1514 Hamilton
*Watson & McDaniel Co. (Steam Traps, Valves, etc.), 146 N 7th
*Watts & Stern (Electrical Machinists), 1303 Buttonwood
†Wayne Iron Works, Arcade bldg
*Wenzell, S. S. Machine Co. (Bottle Working Mach'y, etc.), 443 N 12th
*†Wetherill Finished Castings Co. (Finished Castings), E Erie nr Richmond
*†§Wharton, Wm., Jr., & Co. (Steel & Grey Iron Castings, also Operates a Machine Shop), 25th & Washington
*†Wheeler, C. H. Mfg. Co. (Steam Pumps, etc.), Lehigh & N 18th
§White & Bro. (Brass Fdrs. & Smelters), 1504 E Wilt
*Whitecar's Joseph Iron Works, 10 Pine
†Wilfong Bros., 52d & Gray's av
*Williams, Wm. D., Jasper & Willard
*Williamson Bros. Co. (Inc.) (Hoisting Engines, Hoists, etc.)
*Wirt Electric Co. (Electrical Specialties), 3108 Gtn av
*Wirt & Knox Mfg. Co. (Hose Reels, etc.), 24 N. 4th
*Withington, Ralph (Machinist), Oxford & N Hancock
*§Wonderly, Abner H. (Builders' & Upholsterers' Hdwe., etc.), 621 Commerce
*†Wood, R. D. & Co. (Cast Iron Pipe, Hydraulic & Gas Works Machy., etc.), 400 Chestnut
*Wootten & Peckworth (Machinists), 205 Quarry
*§Wright Mfg. Co. (Brass Fdrs. & Finishers), 133 Master
*Yockel, Chas. & Sons (Machinists, Moulds, etc.), 1220 N Lawrence
†Yocom, Jas. & Son (Shafting), 145 N 2d
*Yool & Shirar, 2009 Oxford, Fkd
*Young & Weinmann, 2642 Mascher

PHILLIPSBURG—*†Gowland Mfg. Co.

PHOENIXVILLE — *Logan Boiler & Machine
*†§Madco Foundry & Machine Co Co.
*†Phoenix Iron Co. (See Phila., Pa.)

PILLOW—*†Snyder, Frank (Iron Fdry. & Machinist)

PITTSBURG—*§Adams Bros. Mfg. Co. (Gas Burners, etc.), North Side
†Adams, S. Jarvis Co.
*Ajax Mfg. Co., 848 Jackson av, North Side
*Albree, Chester B. Iron Works Co. (Riveting Machines), North Side
*†Allegheny Foundry Co. (Ltd.), Grant av & Boquet, North Side
*†ALLEGHENY STEEL CO. (Machine Shop & Foundry for Own Use), Farmers' Bank bldg. Works: Brackenridge, Pa. (See adv. index, end of book)
†Allegheny Valley Malleable Iron Co., Frick bldg
*§Aluminum Co. of America. Works, New Kensington
*†§American Bridge Co. (Iron, Steel & Brass Castings, also Machine Shops)
*†American Fdry. & Const. Co. (Valves, Castings, etc.)
*†American Furnace & Machine Co.
*†§American Sheet & Tin Plate Co. (Iron, Steel & Brass Castings, all consumed by the Company, also Machine Shops)
†American Steel Foundries (Steel Castings)
*†American Steel & Wire Co., 15th & Penn. (See Chicago, Ill.)
*†Anderson-Darragh Co. (Ltd.) (Steam Heaters, etc.), 3206 Penn av
*Axthelm Mfg. Co., 242 3rd av
*§Bailey-Farrell Mfg. Co. (Brass Fdrs. & Plumbers' Supplies), 3d av & Ross
*Baird Machinery Co. (Machy.), 123 Water
*†§Best Mfg. Co. (Iron & Brass Fdrs. & Steam & Rolling Mill Specialties)
*Buechele & Davis (Tools, etc.), 4127 Liberty av
†Byers, A. M. Co. (Wrought Iron Pipe, etc.), 237 Water
*§Cadman, A. W. Mfg. Co. (Valves, Cocks & Iron & Brass Castings), 2814 Smallman
*†§CARLIN'S. THOS. SONS & CO. (Hoisting Engines & Contractors' & Rolling Mill Machinery), Oliver bldg. (See adv. index, end of book)
*†§Carnegie Steel Co. (Steel Car Wheels, etc.), Carnegie bldg
*Carron, A. M. Machine Co. (Small Electric Air & Vacuum Pumps, etc.)
*§Chaplin-Fulton Mfg. Co. (Brass & Bell Fdrs., Gas Regulators, Ejectors, Injectors, etc.), 34 Penn av
*†Crucible Steel Co. of Am., Frick bldg
*†Cyclops Foundry Co. (Iron Castings, Pipe Balls, etc.), Union Bank bldg
§Damascus Bronze oC. (Bonrze Castings, Bearings, etc.), North Side
*Danver, R. H. (Machinist), 845 Pennsylvania av, North Side
*DES MOINES BRIDGE & IRON Co. (Bridges, Towers & Structural Work (See adv. index, end of book)
*†Dilworth, Porter & Co. (Ltd.) (Chilled Mill Castings, etc.), 4th & Bingham
*DUFF MFG. CO. (Hydraulic Jacks, etc.), 405 Marion av. (See adv. index, end of book)
*†Duquesne Steel Foundry Co. (Steel Castings & Machine Shop for Own Use), Arrott bldg. Works, Corapolis, Pa. North Side
*†Eagle Tool & Machine Co. (Special Machinery, Tools, Repair Work, Gear & Cutting), North Side
†§Early, W. J. & Sons (Ltd.) (Grey Iron Castings), 812 Sarah
*†Enterprise Foundry Co. (Ltd.) (Castings, etc.), Nixon & Manhattan av, North Side
*Enterprise Machine & Mfg. Co. (Steam Appliances), 2625 Sarah
*†§Epping-Carpenter Co. (Pumping Machinery & Condensers), 41st & A. V. Ry.
*Equitable Meter Co. (Gas Meters & Appliances), 439 Water
*†§FAWCUS MACHINE CO. (Gears of All Kinds, Rolling Mill & Special Machinery, etc.), 2820 Smallman. (See adv. index, end of book)
*Fisher, A. J. & Co. (Jobbing), 436 2nd av
*†Fischer Foundry Co. (Rolling Mill Machinery & Castings), S 15th
*†Fort Pitt Bridge Works, House bldg
†Fort Pitt Forge Co., 2410 Penn
†Fort Pitt Malleable Iron Co.
†Fort Pitt Steel Casting Co., Houghton av
*†GARRISON, A. FOUNDRY CO. (Rolling Mill Machy. & Castings, etc.), 901 Bingham. (See adv. index, end of book)
*Gazzam, H. P. Machine Co. (Special Machinery), 3200 Penn av
*Gem Mfg. Co. (Flexible Shafts, Boiler Tube Cleaners, Drills, etc.), Spruce nr 33d
*Gettner, K. H. & Co., Phipps Power House
*Gillespie Mfg. Co., 810 Braddock
*†Goodman Engine & Machine Co. (Engines & Machy.), S 15th & Muriel
*Gracey, R., & Sons Co., 105 1st av
*†Hall Steam Pump Co., 215 Grant av, North Side
*Hardsocg, Martin, Co. (Miners' Tools), North Side
*Heppenstall Forge & Knife Co. (Shear Knives, etc.), 47th & A. V. Ry.
*Heyl & Paterson (Rolling Mill & Coal Mining Machy. & Equipments, etc.)
*Hipwell Mfg. Co., 831 North av, North Side
*Hunter Saw & Machine Co. (Saw Sharpening Machines, etc.), 57th & Butler
§Iron City Bronze Co. (Brass Fdrs.), 5315 Butler
*†Iron City Sanitary Mfg. Co. (Plumbers' Cast Iron Enameled Ware)
*Iron City Stamping & Mfg. Co. (Tool & Die Makers & Machinists)
*Iron City Tool Works (Ltd.) (Machine Tools), 32d & Smallman
*†Jelly, Geo. A. Foundry Co. (Iron Fdrs.), 2848 Smallman
*†§Jones & Laughlin Steel Co. (Power Transmitting Machy., etc.)
*†Kelly, Nicholas & Son (Founders), 1708 Wharton
*†§Kelly & Jones Co. (Iron & Brass Fdrs., Steam Specialties, Valves, etc.), 135 Water; Works: Greensburg, Pa.
*§Keystone Bronze Co. (Locomotive & Car Brasses, Aluminum, Brass & Bronze Castings)
*Keystone Machine Co. (Gas Engines), 122
*Knittel, Jno. & Co., 809 Pe Flavel
†Lathwood, Jas. (Iron Fdry.), 22d & Smallman
*†LAWRENCE IRON & STEEL Foundry Co. (Founders & Machinists). 400 32d. (See adv. index, end of book)
*§LAWRENCEVILLE BRONZE CO. (Copper & Bronze Castings for R. R., Mills, etc.), 31st & Penn av. (See adv. index, end of book)
*†Lewis Foundry & Machine Co. Works, Groveton, Pa.
*McClintic-Marshall Construction Co. (Steel Structures, etc.)

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*†McConway & Torley Co. (Malleable Iron & Steel Castings & Railroad Specialties, etc.), 48th & A. V. R'y.
*§McKenna Bros. Brass Co. (Brass Fdrs. & Finishers), 1st av & Rose
*†McKinney Mfg. Co. (Hinges, Butts, Hdw., etc.), North Side
*McSherry Mfg. Co. (Power Presses, Punches & Shears)
*†Mackintosh, Hemphill & Co. (Rolling Mill & Blast Furnace Mach'y., Engines, Iron, Steel & Brass Castings, etc.), ft. of 12th
*Marine Mfg. & Supply Co., 35 Water
*Marshall Bros. (Elevators, etc.), S 21st & Mary
*†Marshall Foundry Co. (Iron Fdrs., Rolling Mill & Builders' Castings, Ingot Molds, etc.), 28th & Railroad
§MATTHEWS, JAMES H. & CO. (Stencils, etc.), 306 Wood. (See adv. index, end of book)
*†§Mesta Machine Co. (Rolling Mill Mach'y, Iron & Steel Castings). Works: Homestead, Pa.
*†Metal Mfg. & Supply Co., 5323 Butler
*†Milholland, J. & J. B. Co. (Engines, etc.), Tunnel & 5th av
†Monongahela Casting Co. (Grey Iron Castings)
*†Munroe, R. & Sons Mfg. Corp. (Boiler Castings & Boiler Mfrs.), 23d & Smallman
*†§National Car Wheel Co. (Car Wheels & Iron & Brass Castings)
*†National Gear Wheel Foundry (Castings, Gears, Gas Engines, etc.)
*†National Roll & Fdry. Co., Farmers' Bank bldg
*†§National Tube Co. (Cast, Malleable, Iron & Brass Fittings, Iron & Brass Valves, Cocks, etc.), Frick bldg
*†National Valve & Mfg. Co. (Valves & Fittings, etc.)
§Newlands Bros., 28th & A. V. R. R.
*Norris Machine Co., 1322 Sherman av
*NUTTALL, R. D. CO. (Gears & Pinions of All Kinds, etc.), LaFayette & Garrison pl. (See adv. index, end of book)
*†§OIL WELL SUPPLY CO. (Oil & Gas Mill Supplies. Gas Engines, etc.), 215 Water. (See adv. index, end of book)
*Peerless Heater Co. (Steam Heaters)
*†Penna. Car Wheel Co. (Car Wheels, etc), North Side
*†Penna Casting & Machine Co. (Car Wheels & Axles)
§Penna. R. R. Co. (Brass Foundry, etc.), North Side
*Pennsylvania Smelting Co., 221 4th av
*Pfaller, Frank (Jobbing), 6947 Susquehanna
*†Phillips Mine & Mill Supply Co. (Coke & Coal Equipments)
*†Phillips & McLaren Co. (Heavy Castings & Rolling Mill Machy., etc.), 24th & Smallman
*§Pittsburg Brass Mfg. Co. (Plumbers' Brass Specialties & Brass & Bronze Castings, etc.), 3153 Penn av
*Pittsburg Electrical & Machine Works (Dynamos & Motors, etc.), Barker pl
*†Pittsburg Forge & Iron Co. (Machine Shop Connected with Works)
*†Pittsburg Foundry & Machine Co. (Fdrs. & Machinists), 31st & Liberty av
*†§PITTSBURGH GAGE & SUPPLY Co. (Iron & Brass Founders, Machinists & Steam Specialties), 30th & Liberty av. (See adv. index, end of book)
*†Pittsburg Gas Stove Mfg. Co. (Gas Stoves, etc.), 23rd & Josephine
*Pittsburg Instrument & Machine Co., 236 3rd
*Pittsburg Iron Works Co., 68 Roberts
*†§Pittsburg Lamp, Brass & Glass Co.
*Pittsburg Machine Tool Co. (Engine Lathes, etc.), 61 Darrah, North Side
Pittsburg Malleable Iron Co., 34th & Smallman
*†Pittsburg Piping & Equipment Co. (Brass & Bronze Fdrs. & High Pressure Pipe Fittings, etc.), 3422 Smallman
*†§Pittsburg Plate Glass Co., Frick bldg; Foundry: Ford City, Pa
*Pittsburg Reinforced Brazing & Mach. Co., 2525 Liberty
*Pittsburg Sanitary Mfg. Co., 525 3rd av
§Pittsburg Smelting & Refining Co.
*Pittsburg Spring & Steel Co., McCandless
*†Pittsburg Steel Fdry. (Steel Castings & Car Wheel Centers, etc.); Works: Glassport, Pa.
*†§PITTSBURGH VALVE, FOUNdry & Cons. Co. (High Pressure Valves & Fittings, Iron & Brass Castings, etc.), 26th & A. V. Ry. (See adv. index, end of book)
*†§Porter, H. K. Co. (Light Locomotives)
*†Pressed Steel Car Co. (Steel Cars), Farmers' Bank bldg
*†Ramaley, W. H. & Co. (Gas Stoves, Ranges, etc.), 314 Federal
*Rees, Jas. & Sons Co. (Steamboat Bldrs.), 18 4th
*§Reineke-Wilson Co. (Gas & Water Supplies, etc.), 41 Terminal way
*†Reliance Steel Casting Co. (Iron & Steel Castings, etc.)
*Renton, Wm. (Cylinder Re-Boring, etc.), 101 Water
*†Republic Iron & Steel Co. (Grey Iron Castings, all Consumed by the Company; also Machine Shops)
*§Republic Mfg. Co. (Machinists, Brass Fdrs. & Pattern Makers), North Side
*Riesick, Peter (Bldrs.' Iron Work, etc.), North Side
§Roessing Bronze Co., West Etna
*†Rosedale Foundry & Machine Co. (Rolling Mill & Tube Mill Machinery & Castings, etc.), North Side
*Russell, J. C. Shovel Co. (Small Machine Shop for the Company's Own Use)
*Russell Machine Co., 28th & Spruce Ry.
*†SCAIFE, WM. B. & SONS (Iron Fdrs. & Structural Steel Construction, etc.), 221 1st av. (See adv. index, end of book)
*†Seaman Sleeth Co. (Sand & Chilled Rolls)
*†Simonds Mfg. Co. (Gears, Pinions & Electric Railway Specialties, etc.)
*Sommerfeld Machine & Mfg. Co. (Gears & Glass House Machinery)
*Spang, Chalfant & Co. (Inc.) (Works Contains Two Machine Shops), Union Bank bldg. Works: Etna, Pa.
†Springfield Foundry Co. (Iron Fdrs.), 3217 Smallman
*Standard Metal Bed Refinishing Co., North Side
*†§Standard Sanitary Mfg. Co. (Sanitary Enameled Iron Goods, etc.), Bessemer bldg
*†Standard Scale & Supply Co. (Standard Scales, etc.), 243 Water; Works, Beaver Falls, Pa.
*†Standard Steel Car Co. (Steel Cars, etc.), Frick bldg; Works: Butler, Pa.
*†Steel Car Forge Co. (Steel Cars, etc.), Frick bldg. Annex. Works, Ellwood City, Pa.
*Stephenson Mfg. Co. (Gas Stoves, Instantaneous Water Heater, etc.), North Side
*†Sterling Steel Foundry Co. (Steel Castings, Car Couplers, etc.), Frick bldg
*†Sterrit-Thomas Foundry Co. (Fdrs. & Machinists, Rolling Mill & Mach'y Castings, etc.)
*Stoner, Thaw & Co. (Filters, etc.), 1200 W. Carson
*†Stove & Range Co. of Pittsburg (Stoves, Furnaces, etc.), North Side
*§Superior Bronze Co. (Mill Brasses), 4044 Liberty
*Swain & Angel (Steam Engines), 3105 Smallman
*Tate, Jones & Co. (Machinists & Fuel Gas Burners, Gas Engines, etc.), Empire bldg
*Tranter Mfg. Co. (Valve Mfrs., etc.), 105 Water
*TRETHEWEY, SAMUEL & CO. (Ltd.) (Blanking Dies, Steam Hammers, etc.), 47th st. (See adv. index, end of book)
*†UNION FOUNDRY & MACHINE Co. (Rolling Mill & Pipe & Tube Mill Machinery. (See adv. index, end of book)
†Union Steel Casting Co. (Steel Castings & Annealing Boxes)
*†Union Switch & Signal Co. (R. R. Specialties), Works, Swissvale, Pa.
*†United Engineering & Foundry Co. (Rolling Mill Machinery). Farmers Bank bldg
*†United States Cast Iron Pipe & Foundry Co., Martland bldg. (See New York)
*†United States Sanitary Mfg. Co. (Plumbers' Cast Iron Enameled Ware), Arrott bldg
§Vanadium Metals Co. (Brass, Bronze & Aluminum Castings), Frick bldg
*†Velte Fdry. & Machine Co. (Grey Iron & Steel Castings, also Machine Shop)
*Vierling Machine Co., 225 1st av
§Wayne Brass Fdry. Co., 134 Home
*†Westinghouse Air Brake Co. (Car Brakes, etc.). Works, Wilmerding, Pa.
†§WESTINGHOUSE ELECTRIC & Mfg. Co., Union Bank bldg. (Electrical Machy., etc.) Works: East Pittsburg. (See adv. index, end of book)
†§WESTINGHOUSE MACHINE CO., The (Engines, etc.). Works, East Pittsburg, Pa.
*Wilhelm, Robt. W. (Dies, etc.), 3d & Liberty ava
*Williams Gauge Co. (Gauges, Pumps, Governors, etc.), 543 4th av
*†§Wilson-Snyder Mfg. Co. (Steam Pumps & Air Compressors), Ross & Water
*Wolverine Supply & Mfg. Co., Imperial Power bldg
PITTSTON—*†§Delahunty Dyeing Machine Co. (Dyeing Machines, etc.)
*†§EXETER MACHINE WORKS (Elevating & Conveying Mach'y, Grey Iron & Brass Castings, etc.) (See adv. index, end of book)
*Huntley, J. G. (Mine Drills, etc.)
*Muirhead, John & Son (Drills, etc.),
*†§Pittston Stove Co. (Stoves)
*Telescope Mine Machinery Co. (Mine Drills, etc.)
*†§Vulcan Iron Works
PLATTSBURG—*Williams Mfg. Co. (Typewriters)
PLYMOUTH—*Bittenbender, Geo. H. (Mine Drills)
*†Howell's Mining Drill Co. (Coal & Rock Drills)
*Moss, George A. (Mining Drills, etc.)
*Reese, Sephaniah (Mach'y. & Tool Works)
POMEROY — *Phillips, M. T. (Machinist & Mach'y., etc.)
PORT CARBON — *†§Franklin Iron Works (Wm. A. Cather, Prop.)
PORTLAND—†Pearson, Leroy
POTTSTOWN—*†Colebrookdale Iron Co. (Meat Choppers, Sad-Irons & Castings, etc.)
*Ellis Keystone Agrl. Works (Threshers, Feed Mills, etc.)
*†Flagg, Stanley G. & Co. (See Phila.)
*†Keystone Foundry Co. (Grey Iron Castings)
*Large, Wm. H.
*McClintic-Marshall Construction Co. (Steel Structures, etc.)
†March-Brownback Stove Co. (Heaters, Furnaces, Stoves, etc.
*§Mayo Damper Co. (Dampers, Motor Cycles, Aluminum, Brass, Bronze Castings)
*§Merkel-Light Motor Co. (Motor Cycles, Bicycles, Castings, etc.)
*§Mitchell & Van Meter Co. (See Phila.)
*§Saylor, John R. (Machinery)
*Shoemaker, Lewis F. & Co. (Steel Structural Work)
*†Wilbraham-Green Blower Co. (Rotary Blowers, Iron Founders, etc.)
POTTSVILLE—*†Phila. & Reading Coal & Iron Co.
†Pottsville Foundry & Stove Co. (Stoves, etc.)
§Zweibel, Edward
PUNXSUTAWNEY—*Porter Bros.
*†§Porter. W. & Son
*†§Punxsutawney Fdry. & Machine Co. (Brass & Iron Castings & General Machine Work)
QUAKERTOWN—*Nadig. L. F.
†Roberts, Winner & Co. (Stoves)
QUINCY—*Quincy Engine Co. (Gasoline Engines)
RADNOR—*†§Righter, Geo. W.
RANKIN STATION—*McClintic-Marshall Construction Co. (Steel Structures, etc.)
READING—*American Die & Tool Co. (Punches, Dies & Lawn Mowers)
*American Iron & Steel Mfg. Co. (Sternberg Branch). (See Lebanon, Pa.)
*Boss Knitting Machine Works (Textile Mach'y)
*Carpenter Steel Co. (Machine Shop Attached to Works)
*†§Chantrell Tool Co. (Hardware Specialties)
*§Crescent Brass Mfg. Co.
*§Dick Bros. (Plumbers' Brass Goods)
†Drummond Iron Works (Cast Iron Pipe)
*§Excelsior Brass Works (Brass Castings & Brass Specialties, etc.)
*Francis, L. M.
*Franklin Specialty Co. (Hdwe. Specialties)
*†§Gray Iron Foundry Co. (Grey Iron & Brass Castings, Plumbers' Supplies, etc.)
*Greth Machine Works (Inc.) (Machinists)
*Keiser Mfg. Co. (Sheep Shears, etc.)
*†King Machine Works (Expansion Joints, etc.)
§Kline & Co.
*†Mohn, W. D. & Co.
†Mt. Penn Stove Works (Stoves, etc.)
*†Orr & Sembower (Inc.) (Steam & Hoisting Engines, etc.)
*†§Penn Hardware Co. (Builders' Hardware, etc.)
*†P. & R. R. Shops
†Prizer-Painter Stove & Heater Co. (Stoves, Heaters, etc.)

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*†Reading Car Wheel Co. (Car Wheels), (See Buffalo, N. Y.)
**READING CRANE & HOIST WORKS** (Cranes, Hoists, etc.), (See adv. index, end of book)
*†§Reading Hardware Co. (Builders' Hardware & Specialties)
*†Reading Iron Co. (Rolling Mills, Iron Fdrs. & Machinists, Rolling Mill Engines & Sugar Mach'y., etc.)
*†Reading Radiator Co. (Radiators, etc.)
*Reading Standard Co. (Bicycles, etc.)
†Reading Steel Casting Co. (Steel Castings, etc.)
†Reading Stove Works (Stoves, Ranges & Heaters, etc.)
*Remppis, Wm. F. Co. (Builders' Iron & Machinists)
*Seibert, Jno. H.
***SPEIDEL, JOHN G. (Hand Hoists** & Cranes. (See adv. index, end of book)
*†Textile Machine Works (Textile Machy & Grey Iron Castings)
*Tragle Mfg. Co. (Files, etc.)
*Xander Machine & Supply Co.
*Zacharias, E. H.
REBERSBURG—*†Gramley, Clark McC.
REBUCK—†Fisher, W. H.
RENFREW—*Price Bros.
RENOVO—*†§Penna. R. R. Shops
REYNOLDSVILLE—*†Herpel Bros.
*Hirst-Butler Electric Machine Co. (Coal Mining Mach'y)
RHEEMS—*Grove, Isaac.
RICES LANDING—*Young, W. A.
RICHFIELD—†Shrauder, W. B.
RIDGWAY—*†Ridgway Dynamo & Engine Co. (Dynamos, Engines, etc.)
*†Ridgway Machine Co.
*†Ridgway Mfg. Co. (Iron & Brass Fdrs., Dry Kilns, Steam Engines, etc.)
RIXFORD—*Lilley, Arthur
ROARING SPRING—*†Brown, John I.
ROCHESTER—†Olive Stove Works (Stoves)
ROYERSFORD — †Buckwalter Stove Co. (Stoves & Furnaces)
†Floyd-Wells Co. (Stoves, Furnaces, etc.)
†Grander Stove Co. (Stoves, Furnaces, etc.)
*Keystone Meter Co. (Gas Meters, etc.)
*Keystone Structural Co. (Steel Structural Work)
*†Royersford Foundry & Machine Co. (Punching & Shearing Mach'y.)
SAINT CLAIR—*§Quirin, John, & Bro.
SAINT MARYS—*†§Elk Engineering Works.
*†§Kaul, J. & A.
*†§Pittsburg, Shawmut & Northern R. R. Shops
SALFORDSVILLE—*Weldner, Jacob K.
SALONA—†Esenwine, Geo. W. (Est. of)
SAXTON—*†§Huntington & Broad Top R. R. Shops
**SAYRE**—*†Cayuta Mfg. Co. (Fire Hydrants, Valves, etc.)
*†§National Car Wheel Co. (See Pittsburg, Pa.)
*§Sayre Stamping Co.
SCOTTDALE—*†Scottdale Foundry & Machine Co. (Steam Engines & Mining Machy.)
*†United States Cast Iron Pipe & Foundry Co. (See New York City)
**SCRANTON—*†§ALLIS-CHALMERS CO.** (See Milwaukee, Wis.)
*†American Locomotive Co. (Locomotives). (See New York City)
*§American Safety Lamp & Mine Supply Co.
*†§Barker, Samuel G. & Son (Track Scales, Machinery & Builders' Castings, etc.)
*†§Delaware & Hudson Co.
*†§D., L. & W. R. R. Shops.
*†§Erie R. R. Shops.
*§Everhart Brass Works (Brass Goods & Brass Castings)
*†§Finch Mfg. Co. (Iron Fdrs. & Steam Engines, etc.)
§Hughes Bros. (Lamps & Brass & Comp. Castings)
*†§McClave-Brooks Co. (Mechanical Stokers, Grate Bars, Iron & Brass Castings, etc.)
*†§O'Malley Mfg. Co. (Brass Goods)
*O'Toole, John Machine Co.
*†§Pearce, Chas. W. (Iron & Brass Castings)
*†Railway Steel Spring Co. (See New York City)
*Scott, C. B. (Mine Supplies, etc.)
*Scranton Axle Works (Axles, etc.)
*Scranton Bolt & Nut Co. (Machine Shop Connected with Works)
*†§Scranton Machine Works (General Fdrs. & Machinists)
*†§Scranton Steam Pump Co. (Iron & Brass Fdrs. & Steam Pumps)
†Scranton Stove Works (Stoves)
*†Scranton Supply & Machine Co.
*†Spencer Heater Co. (Furnaces, Heaters, etc.)
*†Tonhill Iron Works
SELLERSVILLE—*U. S. Gauge Co. (Vacuum Gauges)
SEWARD—*†§Duroth Mfg. Co.
SHAMOKIN—*†Mullen, John & Son (Iron Fdrs. & Engines, Pumps, Mining Machinery, etc.)
SHARON—†American Steel Foundries
*Damascus Brake Beam Co. (Brake Beams & Railroad Specialties). (See Cleveland, O.)
*†National Malleable Castings Co. (See Cleveland, O.)
*Sharon Boiler Works
†Sharon Foundry Co. (Steel Castings)
*Sharon Steel Hoop Co. (Machine Shop for Use of the Company)
*†Shenango Machine Co. (Iron Fdrs. & Machinists)
SHARPSBURG—*†Moorhead, Bro. & Co. (Inc) (Iron Pipes, etc.)
*†Sharpsburg Foundry Co.
SHARPSVILLE—*†Inglis, D. R.
*†Valley Mold & Iron Co.
SHILLINGTON—*Miller, Wm. W.
SHIPPENSBURG—*Davidson, George
*†Domestic Engine & Pump Co. (Gasoline Engines, Pumps, etc.)
SINKING SPRING—†Manufacturers' Foundry Co.
SLATINGTON—*†Slatington Foundry, Machine & Boiler Works (Grey Iron Castings, Mine & Quarry Repairs, etc.)
SMITHFIELD—†Moore Foundry Co.
SOMERSET—*†§Highland Fdry. & Machine Co.
SOUTH BETHLEHEM—*†§Bethlehem Fdry. & Machine Co. (Machine Tools, etc.)
*†§Bethlehem Steel Co. (Rolling Mill, Special Machy. & Castings, etc.)
SPRING CITY—†Keystone Stove Foundry (Stoves, etc.)
*Penna. Shafting Co. (Polished Steel Shafting)
STEELTON—*†Penna Steel Co. (Steel Castings, Railroad Frogs, Switches, Crossings & Forgings, etc.), Main Office: Phila., Pa.
STOWE — *†Flagg, Stanley G. & Co. (See Phila., Pa.)
STROUDSBURG—*†Marsh, E. B., Bro. & Co.
*†Stroudsburg Engine Works (Hoisting Engines, etc.)
*Tanite Co. (Emery Wheels, etc.)
SUNBURY—*†§Keystone Machine Works
SWALES—†Beers, J. L. & Sons
†Jamison, I. M.
SWEDELAND—*†Hecksher, Richard & Sons Co.
SWISSVALE—*†Union Switch & Signal Co. (Railroad Specialties). (See Pittsburg, Pa.)
TAMAQUA—*†Beddall Bros.
*†§Tamaqua Mfg. Co. (Iron Fdrs. & Ore Washing & Coal Mining Machy.)
TARENTUM—*Tarentum Machine Co.
*United States Engineering Co. (Engines, Motors, etc.)
†West Penn Steel Co.
TATAMY—*†Messinger Mfg. Co. (Agl. Impts., Threshers, Planters, Grain Cleaning Machinery)
TIDIOUTE—*Grettenberger, Fred
TIONA—*Norris, W. C. (Oil Well Tools, etc.)
TITUSVILLE—*†American Radiator Co. (See Chicago, Ill.)
†Burgess, Chas. (Steel Castings & Steel Mfr.)
*†Titusville Forge Co. (Iron Fdrs., Machinists & Forgings)
*†§Titusville Iron Co. (Steam Engines, etc.)
*†Young, E. R. & Sons (Engines, etc.)
TOPTON—*†Topton Foundry & Machine Co.
TOWANDA—*†§Humphrey Mfg. Co. (Iron Fdrs. & Machinists)
TRAFFORD CITY—Westinghouse Foundry Co
TROY—*†Troy Engine & Machine Co. (Jno. A. Parsons, Prop.), (Engines, etc.)
TUNKHANNOCK—*†§Avery, F. P.
TYRONE—*†Burley Heater Co. (Grey Iron Castings, Heaters, etc.)
*†§Stine, J. C. Co. (Haulage Engines, Mine Fans, Incline Drums, etc.)
UNION CITY—*†Industrial Iron Works
UNION FURNACE—*†Union Furnace Mfg. Co. (Hot Air Registers, Shovels, Rakes, Hoes, etc.)
UNIONTOWN—*†American Brake Shoe & Foundry Co. (See Mahwah, N. J.)
*Evans Mould & Machine Co.
*†§McCrum-Howell Co. (Hot Air Furnaces, Radiators & Heating Apparatus, etc.) Main office: New York
†Miller Foundry Co.
†Union Foundry (Andrew D. Jaquett, Prop.)
VANDERGRIFT—*†§United Engineering & Foundry Co. (See Pittsburg, Pa.)
WANAMAKERS—†Klingman, L. J.
WARREN—*†§Allegheny Foundry Co. (Grey Iron & Brass Fdrs. & Semi-Steel Castings & Machinists, etc.)
*†§Barnhardt & Davis
§Bashlin Co. (Brass Fdrs. & Valves, etc.)
*†§Gisholt Machine Co. (Machine Tools, Vertical & Horizontal Boring Mills, Turret Lathes, Brass & Iron Fdrs.)
*Hammond Iron Works (Boilers & Machinists, etc.)
*†Jacobson Machine Mfg. Co. (Air Compressors, Power Transmitting Machinery, Vices, Clutches, etc.)
*Jamieson M. W. & Co. (Steam Pumps, etc.)
*Penna. Furnace & Stove Co. (Hot Air Furnaces, etc.
*Schellhammer & Son (Hot Air Furnaces, etc.)
*†Struthers-Wells Co. (Gas Engines, Boilers, etc.)
*Warren Axe & Tool Co. (Edge Tools, etc.)
*Warren Steel Car Works (Steel Cars, etc.)
*Wilburine Oil Works (Ltd.) (Machine Shop for Their Own Use)
WASHINGTON—*Gardner Gas Engine Co.
*National Wrought Iron Annealing Box Co.
*†§Northrup, B. D.
*†Tyler Tube & Pipe Co.
WATSONTOWN—†§Jones, J. W.
WAYNE—Wayne Iron Works (See Phila., Pa.)
WAYNESBORO—*†Emmert Mfg. Co. (Vises etc.)
*†§Frick Co. (Steam & Traction Engines, Ice Machinery & Agl. Implts, etc.)
*†§Geiser Mfg. Co. (Steam & Traction Engines, Agl. Implts., etc.)
*†Landis Machine Co. (Bolt Cutters, Screw Machines, etc.)
*Landis Tool Co. (Tool Grinders, etc.)
*Victor Tool Co. (Machine Tools, etc.)
WAYNESBURG—*Zahneiser Bros. (Oil & Gas Well Tools, etc.)
WEATHERLY—*†§Weatherly Foundry & Machine Co. (Grey Iron Castings, Railroad, etc.)
WEST CHESTER—*Dairy Specialty Co. (Dairy Machinery)
*Davis, Louis N Co. (Valves, etc.)
*Hoopes, John (Dairy Mach'y, etc.)
*Mayer & Eachus
*Price, Jos. T.
*†Sharpels Separator Co. (Dairy Machinery & Supplies, etc.)
WEST NEWTON—*†§Moore & Butts
*Standard Nipple & Tool Co. (Nipples, Wrenches, etc.)
*†United States Radiator Corp. (See Detroit, Mich.)
WEST SALISBURG—*†§Knecht, M. & Sons
WHEATLAND—*†Sharon Foundry Co. (Rolling Mill Castings, Ingot Molds, etc.)
WHITE HAVEN—†Walace, Sam'l (Est. of) (Grey Iron Castings)
WILKES-BARRE—*Adder Machine Co. (Adding Machines)
†Eagle Iron Works
*†Gates Foundry Co.
*Johnson, Robt. (Machinist)
*Le Grand Mine Drill Works (Steam Mine Drills)
*MacCullum Co.
*Nicholson, W. H. & Co. (Expanding Mandrels, Compressed & Flange Couplings, etc.)
*§Royer & Zweibel (Brass Fdrs., etc.)
*†Sheldon Axle Co (Carriage Axles, etc.)
*§Shelley, George & Son
*†§Vulcan Iron Works (Iron Fdrs., Engines, Mining Mach'y, etc.)
*†Wilkes-Barre Iron Mfg. Co.
WILLIAMSPORT*†American Woodworking Machinery Co. (See Rochester, N. Y.)
*†§Darling Pump & Mfg. Co. (Machinists & Iron & Brass Fdrs., etc.)
*Foucart, Jno. E. (Saws, Machines, Knives, etc.)
*†Hermance Machine Co. (Woodworking Mach'y)
*Keeler, E. Co. (Machinists & Boilermakers)
*Larzelere Machine Co.
*Link, Jas. H. Machinery Co. (Saw Mill Mach'y, etc.)
*†§Lycoming Fdry. & Machine Co. (Sewing Machines, etc.)
*Moltz, Jacob J.
*†National Foundry Mfg. & Supply Co. (Power Transmitting Machinery & Grey Iron Castings)
*†Rothfuss-Howard Iron Co. (Engines & Saw Mill Machinery)
†Rundio, Nelson L. (Grey Iron Castings)
*†Shepherd Engineering Co. (Steam Engine)
*†Sweet's Steel Co. (Steel Castings & Machine Shop)
*†§United States Machine Co. (Woodworking Machinery & Iron & Brass Castings)
*Valley Iron Works
*Villinger, W. E. (Dies, etc.)
*Williamsport Iron & Nail Co.
*†Williamsport Radiator Co. (Radiators, etc.)

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†Williamsport Staple Co. (Hardware & Harness Specialties)
WILMERDING—*†§Westinghouse Air Brake Co.
*†Westinghouse Traction Brake Co. (Electric Car Brakes, etc.)
WINDOM—*Kauffman, Harry M.
WOMELSDROF—†Beyerle, Wm.
WRIGHTSVILLE—*Dissinger, C. H. A. & Bro. Co. (Gasoline Engines, etc.)
†Riverside Foundry Co.
*†Susquehanna Casting Co. (Light Castings & Hardware Specialties)
*†Wrightsville Hardware Co. (Builders' & Hardware, etc.)
WYNDMOOR—*†§Nelson Valve Co. (Valve Mfrs.)
WYOMING—*Eagan, Jas. (Mine Drills, etc.)
YORK—*Barber Car Co. (Car Builders)
*Burrows Mfg. Co. (Valves, Regulators, etc.)
*†§Eyster, Weiser & Co. (Water Wheels Powder Mill Mach'y & Car Castings)
*†§Farquhar, A. B. Co., Ltd. (Agrl. Impls., Traction & Steam Engines, etc.)
*Flinchbaugh Mfg. Co. (Gas & Gasoline Engines, etc.)
*Graybill, John E. & Co., Inc. (Electrical Supplies)
*†Hench & Dromgold Co., Inc. (Agl. Impltş., Grain Drills, Plows, Cultivators, Harrows, etc.)
*Henry, Millard & Henry (Gas & Gasoline Engines, etc.)
†Keystone Farm Machine Co. (Agrl. Impltş., Plows, Cultivators)
*Motter, Geo. F. & Sons (Steam Engines)
†§Penna Foundry Co. (Grey Iron Castings, etc.)
*Read Machinery Co. (Bakers' Machy.)
*Root, B. M. Co. (Woodworking Machy.)
*Ruth Machine Co. (Knitting Machines)
*†§Smith, S. Morgan Co. (Turbines, etc.)
*†Smyser, Royer, Co. (Grey Iron & Builders' Castings, etc.)
*†§Spangler Mfg. Co. (Agl. Impltş., Grain Drills, Harrows, Planters, Saw Mills, etc.)
*†§Steacy-Schmidt Mfg. Co. (Heating Apparatus, Ranges, Kilns & Grey Iron Castings)
*Wiest Machine Co.
*York Bridge Co. (Steel Bridges, Steel Derricks, etc.)
*York Electric & Machine Co. (Incandescent Lamp Making & Special Machy.)
*†§York Foundry & Machine Co.
*†§York Ice Machine Mfg. Co. (Ice & Refrigerator Machinery, Corliss Engines & Castings, etc.)
*†York Safe & Lock Co.
*York Wagon Gear Co. (Ltd.) (Wagon Gears)
YOUNGS—*†Graver, Geo. A. (Iron Fdry. & Machinist)
YOUNGSVILLE—*Sagerdahl, J. A.
ZELIENOPLE—*†Herman Pneumatic Machine Co. (Foundry Molding Machines, etc.)
*†Iron City Sanitary Mfg. Co. (See Pittsburg, Pa.)

## RHODE ISLAND.

BRIDGETON—*§Hopkins Machine W'ks (Inc.) (Textile Machinery)
BRISTOL — *†Herreshoff Mfg. Co. (Yacht Bldrs.)
CENTRAL FALLS—*Hemphill Mfg. Co. (Knitting Machinery)
*Mossberg Wrench Co. (Special Machinery) Wrenches, etc.)
§Newell, F. E. (Brass Fdry.)
EAST GREENWICH—*Nock, F. S. (Engine & Power Boat Builder)
HILLS GROVE—†Rhode Island Malleable Iron Works (Malleable Iron Castings)
NEWPORT—*Burnham, Gilbert H. (Machinist)
*†Newport Engineering Works
*†Newport Foundry & Machine Co.
*Owen, Thos. G. (Machinst)
*§Stedman, P. H. (Brass Fdry. & Finisher)
PAWTUCKET—*Blackstone Machine Co.
*Carpenter, J. M. Tap & Die Co. (Taps & Dies)
*Cole Bros. (Textile Mach'y, etc.)
*Collins Bros. Machine Co. (Machinists)
*Collyer Machine Co. (Engineers & Machinists)
*Dawson, A. (Tipping Machines)
*Easton & Burnham Machine Co. (Textile Machinery, Spindles & Machinists)
*†Fales & Jenks Machine Co. (Machine Tools, etc.)
*Haskell, Wm. H. Mfg. Co. (Malleable Bolts, Nuts, etc.)
*Hemphill Mfg. Co. (See Central Falls)
*†§Howard & Bullough American Machine Co. (Cotton Mach'y). (See Boston, Mass.)
*†Jenckes Knitting Machine Co. (Knitting Machinery, etc.)
§Jenkinson, Jno. (Brass Founder)
*Luther, C. A. & Co. (Textile Mach'y)
§McKenna, Frank & Co. (Brass Founders)
*Moucrief Mfg. Co.
*Narragansett Machine Co. (Machinery & Gymnasium Supplies)
*New England Machine & Electric Co.
†§Pawtucket Foundry Co.
*Pawtucket Mfg. Co. (Mach., Bolts, Nuts, etc.)
*Payne, Geo. W. Co. (Textile Machy.)
*†Potter & Johnston Machine Co. (Machine Tools, etc.)
*Slocum, Wm. H. Co. (Machy., Forgings, etc.)
*†White, J. S. Co. (Iron Fdrs. & Machinists)
PROVIDENCE—*Adams Bros., 224 Eddy
*§Allen Fire Dept. Supply Co., 171 Eddy
*American Ball Co. (Steel Balls, etc.)
*†American Locomotive Co. (Locomotives), (See New York)
*†American Ship Windlass Co. (Windlasses, Winches, Steam Towing Machines, Castings, etc.)
*†American & British Mfg. Co. (Corliss Engines, Driving Wheels, etc.)
*Angell, Chas. E. (Machinist)
†Barstow Stove Co. (Stoves, etc.)
*Beaman & Smith Co. (Machine Tools)
*Blaisdell, S. S. Machine Co., 130 Orange
*Bliss, E. C. Mfg. Co. (Milling Cutters, etc.)
*Beaman & Smith Co. (Machine Tools),
*Blaisdell, S. S. Machine Co., 130 Orange
*Bragg, Jno. I. (Wool, Combs, etc.). 24 Atwood
*†Brown & Sharpe Mfg. Co. (Machine Tools, Machinists' Small Tools & Grey Iron Castings)
*†§Builders' Iron Foundry (Grinding Machinery & Iron & Heavy Bronze Castings)
§Carpenter, H. T. & Co., 157 Orange
†Calvin Fdry Co. (Castings of All Kinds)
*†§Crompton & Knowles Loom Works (Textile Mach'y.). (See Worcester, Mass.)
*Cruickshank Engine Co. (Stationary & Yacht Engines)
*§D & W Fuse Co.
*Dart, E. M. Mfg. Co. (Unions, Couplings, etc.)
*Diamond Machine Co. (Grinding Mach'y)
*Eastern Machine & Stamping Co. (Tools, Dies & Machine Work)
*Excelsior Steam Engine & Machine Co.
*Field, Chas. H. (Tool Grinders & Polishers)
*†Franklin Machine Co. (Cotton Mach'y)
§Fuller, Frederic (Church Bells & Bronze Castings)
*†Fuller Iron Works (Cast Iron Pipe & Mach'y Castings), 40 Tockwotton
†General Fire Extinguisher Co. (Cast Iron Pipe & Fittings, Valves, Steam Goods, etc.)
§GORHAM CO. (Brass & Bronze Fdrs.) (See adv. index, end of book)
*Graham Mfg. Co. (Vises, Drill Speeders, etc.)
*Harris, W. A. Steam Engine Co. (Corliss Engines)
*Heathcote, Jno. & Son (Woollen Machinery), 212 Eddy
*Hope, Jno. & Sons, Engraving & Mfg. Co. (Engraving Machy.), Mashapaug &
*Hughes, Wm. Co., Bough st. Elmwood
*Langelier Mfg. Co. (Special Machy.)
*McWilliams, Thomas (Dorp Presses, Rotary Shears, etc.)
*Mann, Chas. A., 166 Doyle av
*Mechanical Accountant Co. (Adding Machines, etc.)
†Miller Iron Co. (Castings, etc.), 516 Harris ave.
*†New England Butt Co. (Braiding Machinery etc.), 304 Pearl
†NICHOLSON FILE CO. (Files, Rasps, etc.) (See adv. index, end of book)
*Parkinson, Edw. Mfg. Co. (Machinist), 84 Sprague
Pawtucket-Briscoe Motor Co. (See Tarrytown, N. Y.)
§Providence Art Metal Co., 137 Clifford
§Providence Brass Fdry. & Machine Co. (Brass & Bronze Castings)
*Providence Engineering Works (Corliss & Pumping Engines, etc.)
*Providence Mfg. & Tool Co. (Tools, etc.) 17 Warren
*Providence Steam Trap Co. (Steam Traps, etc.)
†Providence Steel & Iron Co.
*Rhode Island Braiding Machine Co. (Textile Machinery)
*Rhode Island Machine Co. (Tools, etc.)
*Rhode Island Tool Co. (Tools, Nuts, etc.)
*Richards, Isaac P. Co. (Punches, Dies, etc.)
§Rogers, Wm., Silver Co. (Silverware)
*Rushton, Carroll Co. (Textile Machinery)
*Scholfield. Jos, J. (Gears & Pulleys, etc.), 282 Dyer
*Schott Bros. (Button Machinery)
*Scott, Henry L. & Co. (Machinists)
§Shirley, Jno. R. & Sons (Gas Fixtures)
†SLOCOMB, J. T. CO. (Machinists' Tools), 29 Oxford. (See adv. index, end of book)
*Standard Machinery Co. (Presses, Drops, Rolling Mills, Draw Benches, etc.)
*†§Textile Finishing Machinery Co. (Textile Machinery, 83 Exchange pl
*Thomas & Lowe Machinery Co., 68 W Exchange pl
*Thurston Mfg. Co. (Jewellers' Machinery)
*†Tower, James H. (Iron Work of all kinds), 46 Borden
*Union Drop Forge Co. (Drop Forging & Finishing)
*U. S. Bobbin & Shuttle Co. (Textile Machinery)
*Universal Winding Co. (Winding Machines),
*Wheelwright Filler & Mfg. Co. (Paper Machinery, etc.)
§White-Stillman Foundry Co. (Brass Fdrs.),
*Winsor & Jerauld Mfg. Co. (Textile Machinery), 223 Harrison
RIVER POINT—†Brayton, L. Foundry Co.
VALLEY FALLS—*Hindley Mfg. Co. (Castings, Keys, etc.)
†Valley Falls Iron Foundry
WARREN—*Potter, Collamore & Co.
*†§Textile Finishing Machinery Co. (See Providence, R. I.)
WESTERLY—*†§Cotrell, C. B. & Sons Co. (Printing Presses, etc.)
*Kenyon Machine & Automobile Repairing Co.
*Wilcox. Donahue & Co. (Stone Tools, etc.)
WOONSOCKET—*American Wringer Co. (See New York City)
*Knight. Geo. C. (Machinist)
*Taft-Pierce Mfg. Co. (Contractors for Special Mach'y & Mechanical Devices of All Kinds)
*†§Woonsocket Machine & Press Co. (Textile Machy.)
*Woonsocket Napping Machinery Co. (Textile Machy.)

## SOUTH CAROLINA.

ANDERSON—*†§Anderson Mach. & Fdry. Co. (Machinery & Castings)
BLACKSBURG—*†§Blacksburg Machine & Iron Works)
CHARLESTON—*†§Charleston Iron Works (Machinery, Engines, Rollers, etc.)
*†§Riley, Jno. F. Fdry. & Machine Works (Brass & Iron Castings, Forgings, Machinists, etc.)
*†§Riverside Iron Works (Machinists, Fdrs., Shipsmiths, etc.)
*†§Valk & Murdoch Iron Wks. (Iron Fdrs., Machinists & Machinery)
†Virginia-Carolina Chemical Co. Fdy. Department)
CHERAW—*†§Pee Dee Iron Works
CHESTER—*Chester Machine & Lbr. Co.
COLUMBIA — *†§Columbia Machine & Iron Works
*†Gibbes Machinery Co. (Engines & Machinery)
†Shields, Geo. A.
*†§Willis, J. A. (Steam Engines, etc.)
CONWAY——†Conway Iron Works
CORNWELL—*McKeown, W. O. & Sons
DILLON—*Dillon Plow & Novelty Works (Plows, etc.)
FERGUSON—†Santee River Cypress Lumber Co.
FLORENCE—*†Atlantic Coast Line R. R. Shops
GAFFNEY—*†§Cherokee Fdy. & Mach. Wks
GEORGETOWN—*†§Atlantic Coast Lumber
*†Georgetown Iron Works Co.
GREENVILLE—*†§Mountain City Fdry. & Machine Works (Inc.)
GREER—*Greer Iron Works
McCOLL—*Fletcher, John C. (Cotton Plant-
MARION—†McDuffie, Emerson ers, etc.)
ORANGEBURG—Smoak, J. W.
ROCK HILL—†Syleecau Mfg. Co.
SALUDA—†Crout, J. M.
SENECA—*†Seneca Iron Works
SUMTER—†Sumter Iron Works
*†§Sumter Machinery Co.
WALTERBORO—*†Cummings Iron Works & Supply Co.

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## SOUTH DAKOTA.

ABERDEEN—*†Hub City Iron Works
CANTON—*Ellingson, E. E.
DELL RAPIDS—*Sioux Hdw. & Construction
DESMET—†Desmet Stove Co. (Stoves) Co.
EPIPHANY—*Kersten, M. T. Co.
LEAD—*†§Homestake Mining Co.
MITCHELL—*†Mitchell Boiler & Machine Co.
MELLETTE—*Oberle, John
REDFIELD — *†§Norbeck & Nicholson Co. (Iron Fdrs. & Machinists)
SIOUX FALLS—*†§Pankow Bros. (Fdrs. & Machinists)
*Sioux Falls Plow Co. (Plows, etc.)
WATERTOWN—*Hanten Machine Co.
*Hess & Ran
WEBSTER—*Magnus, Wm. (Machinist)
WOONSOCKET—†Janssen, J. H.
YANKTON—*Fanslow Bros (Machinists)
*Veiling, Anton

## TENNESSEE.

BRISTOL—†Dominion Iron Works (Grey Iron Castings)
*†§Enterprise Foundry & Machine Works
†Standard Cast Iron Pipe & Foundry Co. (See Phila., Pa.)
*†§V. & S. W. R. R. Shops
CALHOUN—*†Acme Sash Weight & Fdry. Co. (Sash Weights, etc.)
CHATTANOOGA—†Acheson Foundry Works
*†American Brake Shoe & Foundry Co. (See Mahwah, N. J.)
*American Mfg. Co. (Light Hardware, etc.)
*Brown, T. W. & Bro.
†Cahill Iron Works (Iron Fdrs. & Machinists)
*Carson Mfg. Co.
*†Casey & Hedges Mfg. Co. (Cast Iron Soil Pipe & Fittings, Boiler Fronts & Castings, Grate Bars, etc.)
*†Chattanooga Car & Foundry Co. (Cars, Car Wheels, etc.)
*†Chattanooga Implement & Mfg. Co. (Hay Presses, Agl. Implts., etc.)
*†Chattanooga Machinery Co. (Air Compressors, Hoists, etc.)
*†Chattanooga Plow Co. (Plows, Cane Mills, etc.)
*§Chattanooga Roofing & Foundry Co. (Iron Fdrs., etc.)
*Chattanooga Saw Works (Saws, etc.)
*Columbian Iron Works (Saw Mill Machinery)
†Eureka Foundry Co. (Iron Fdrs.)
†Frictionless Metal Co. (Bearings, etc.)
*†Gibson-White Co. (Stoves & Castings)
*†§Gustafson Mfg. Co. (Cars, Mine Equipments, Rollers, etc.)
†Heron Iron Bedstead Co.
§Hiebeck & Martin (Brass Castings, etc.)
*Jones, George (Mining Mach'y, etc.)
*†Lookout Boiler & Mfg. Co. (Grey Iron Castings, etc.)
*McGregor, J. F. & Co. (Hardware Specialties, etc.)
*†Mountain City Stove & Mfg. Co. (Stoves etc.)
*Nixon Mining Drill Co. (Mining Drills, etc.)
*†Patten Mfg. Co. (Electric & Gasoline Hoists, etc.)
†§Price Evans Foundry Co. (Iron & Brass Castings, Stoves, etc.)
*†Ross-Mechan Foundry Co. (Grey & Malleable Iron Castings, etc.)
*†Sanders-Newell Plow Co. (Plows, etc.)
*Southern Queen Range Mfg. Co. (Steel Ranges)
*†Southern Skein & Foundry Co. (Grey Iron Castings, Wagon Skeins, Wagon Hardware, etc.), Chattanooga, Tenn.
*Standard Machinery Co. (Machinists & Machinery)
*Star Pea Machine Co.
*Street Bros. Machine Works
†Tennessee Stove Works (Stoves, etc.)
*†U. S. Cast Iron Pipe & Foundry Co. (See New York City)
*Vacuum Dyeing Machine Co.
§Vibrator Instrument Co.
*†Volunteer Disc Plow Co. (Plows, etc.)
*†Walsh & Weidner Boiler Co. (Boiler Fronts & Castings, etc.)
*†Wheland Machine Works (Engines, Saw Mill Machinery, etc.)
†§White, Wm., & Sons
CLARKEVILLE—*†Drane Foundry & Supply Co.
†Patch, A. H. (Corn Shellers, Feed Mills, etc.)
CLEVELAND — *Cleveland Machine Works (Wood Sawing Mach'y)
*†§Hardwick Stove Co. (Stoves)
COOKEVILLE—*Cookeville Machine Shop
ERIN—*Erin Mfg. Co. (Hay Presses, etc.)
HARRIMAN—*†§Harriman Mfg. Co. (Agrl. Implts., Plows, etc.)
JACKSON—†§Heathcock-Rush Machine Co.
§I. C. R. R. Shops
§M. & O. R. R. Shops
*†§Southern Engine & Boiler Works (Engines, Saw Mill Machy., etc.)
†Wells-Jones Plow Co. (Plows, etc.)
JELLICO—*†§Jellico Foundry Co.
KNOXVILLE — *Automatic Valve Grinding Machine Co. (Cock Grinding Machines, etc.)
*Dempster, Jas. (Machinist)
*Duncan, John G. Co.
†Enterprise Machine Works
†Fair Foundry Co. (Stoves, etc.)
*†§Fulton Co. (Specialties)
*†§Knoxville Foundry & Machine Co.
*Knoxville Iron Co. (Machine Shop Attached to Works)
†Lonsdale Foundry Co.
†Nelson, H. O. Iron Works (Iron Fences & Castings)
*†§Oliver, Wm. J. (Contractors' Cars, etc.)
*†Sanford-Day Iron Works (Car Wheels & Cars)
*Savage, W. J. & Co. (Mill Mach'y, etc.)
*†Southern Pipe & Foundry Co.
§Southern Ry. Shops
*Tattersall, Jno. (Machinist)
*Ty-Sa-Man-Machine Co.
*Wolf, M. L. Automobile Co. (Machinist)
LA GRANGE—†Gaither-Panky Plow Co.
LAWRENCEBURG—*Lawrenceburg Machine & Repair Co.
LEWISBURG—*Green, A. J. & Son
LEXINGTON—*†Lexington Machine Works
McMINNVILLE—*†Wrightman, D. M. & Son
MARYVILLE—†Furnace Equipment Company
†Maryville Foundry (Grates, etc.)
MEMPHIS—*†American Car & Foundry Co.
Beronio & Palmer (See St. Louis, Mo.)
*Bodley Wagon Co. (Contractors, Wagons, Cars, etc.)
*†Chickasaw Iron Works (Iron Fdrs., Builders' Iron Work & Machinery)
*Eagle Machine Works (Machinists)
Ellis, S. J.
*†Ellis, Wm. C. & Sons (Agrl. Implts. & Machy.)
*†§Livermore Foundry & Machine Co. (Fdrs. & Machinists)
*Memphis Car Co. (Car Builders)
*†Memphis Machine Works (Saw Mill Machinery, etc.)
*Memphis Repair Works
*Success Brick Machinery Co. (Brick Mach'y, etc.)
*†Wetter, H. Mfg. Co. (Stoves, Cast Iron Soil Pipe, etc.)
NASHVILLE—*†Allen Mfg. Co. (Stoves)
*†Atlas Machine Co.
*Bouchard, John & Sons Co. (Compressors, Ice & Refrigerator Mach'y)
*Braid Electric Co. (Elec. Specialties)
*†Cumberland Foundry & Mfg. Co.
*†§Gray & Dudley Hardware Co.
†Jones & Hopkins Mfg. Co. (Stoves, etc.)
*Jonte, N. S. (Machinist)
*†§N. C. & St. L. Ry. Shops
†Napier Iron Works (Inc.)
*Nashville Machine Co. (Flour Mill Machinery)
*†§Phillips & Buttorff Mfg. Co. (Stoves, etc.)
*Rock City Machine Co. (Machinists)
*†§Stewart-Bruckner Co.
PULASKI—*†Pulaski Machine Co.
*West Bros.
ROCKWOOD—*†§Roane Iron Co.
SOUTH PITTSBURG—*†Blacklock Fdry. Co. (Sad-Irons, etc.)
*†Central Fdry. Co. (See New York City)
†South Pittsburg Foundry Co.
*†Wetter, H. Mfg. Co. (See Memphis)
TREZEVANT—*†Hurdle Bros. & Argo
TROY—†Kanady & Goodman (Stoves, etc.)
UNION CITY—†Semones & Son

## TEXAS.

AMARILLO—*Amarillo Machine & Auto Co.
AUSTIN—*Gossard, A. R. (Mill Machinery)
*†§Heierman, Frank, & Bro.
*†§Tips Foundry & Machine Co. (Gasoline Engines, Pumps, etc.)
BATSON—*Wynn, J. S.
BEAUMONT—*†§Beaumont Iron Works
BRENHAM—*†§Beaumier Iron Works
*Roff & Miller
BRYAN — *Stevenson Machinery & Repair Works
CLEBORNE—*†§Temple Foundry & Machine Co.
CORSICANA—*†American Well & Prospecting Co. (Iron Fdrs., Machinists & Engineers)
DALLAS—*†Continental Gin Co. (Cotton Gins) (See Birmingham, Ala.)
§Dallas Brass Mfg. Co.
†Dallas Foundry Co.
*†Mosher Mfg. Co. (Grate Bars, etc.)
*†Murray Co. (Gin Machy. & Supplies)
*†Sutton-Steele & Steele (Inc.) (Mining Machinery, etc.)
*†Texas Disc Plow Co. (Plows, etc.)
DENISON—*Clark, H. W.
†Knaur, Wm. E. & Co. (Iron Fdry.)
*§Knaur & Howe
EL CAMPO—*Lindstrom, C.
EL PASO—*†§Darbyshire Harvie Iron & Machine Co.
*†El Paso Foundry & Machine Co.
*†§Union Iron & Brass Works
FORT WORTH—*†§Axtell Co. (Windmills, etc.)
†Bowdry & McKinley Iron Works
*†§Gamer Co.
†Horrell Bros. (Mach'y, Castings, Grate Bars, etc.)
*†Midland Brass Works (Brass Fdrs.)
*Southwestern Mechanical Co.
*Texas Anchor Fence Co. (Farm, Stock & Lawn Fencing, Gates, etc.)
*Texas Mfg. Co. (Cotton Gins, etc.)
*†Van Zandt-Moore Iron Works
GAINESVILLE—*Moseley, John L.
GALVESTON—*†McDonough Iron W'ks (Steam Engines)
*†§Walsh & Cleary (Iron Fdrs.)
HOUSTON—*Bayou City Iron Wks. (General Machinists & Forge Wks.)
*§Cushman, Jas. & Co. (Patterns & Models, etc.)
*†§Dickson Car Wheel Co. (Car Wheels & Castings)
*Grant Locomotive & Car Wks. (Locomotives & Cars Rebuilt, Frogs, Crossings, etc.)
*†§Hartwell Iron Wks. (General Machine Work & Iron & Brass Castings)
*§Hewitt Mfg. Co. of Texas (Journal Bearings, Brass Castings, etc.)
*†Houston Car Wheel & Machine Co. (Dredge, Oil Mill & Saw Mill Machy. & Iron Castings)
*§Houston Iron Wks. (Oil Mill Strainers, Brass Castings & Machine Work)
*Houston Structural Steel Co. (Steel Work for Buildings, etc.)
*†§Houston & Texas Central Ry. Shops
*§Kettler Brass Mfg. Co. (Brass & Bronze Castings, etc.)
*Layne & Bowler Co. (Pumps & Oil Well Strainers, etc.)
*†§Lloyd Metal Co. (General Machine Work & Iron & Brass Castings)
§Miller, Louis E. (Electrical Engr. & Brass Fdr.)
*§Ries, Ferdinand H. (Iron & Brass Work and General Machinist)
*Sharp & Hughes (Rock Drills, etc.)
*Shum. Carl J. (Jobbing Machinist)
*§Southern Brass Mfg. & Plating Co. (Brass Fdrs., Finishers & Platers)
*†§Southern Pacific Ry. Shops
*Stancliff Well Screen & Mfg. Co. (Oil Well Strainers, Drive Well Points, etc.)
*†Texas Bridge & Equipment Co. (General Machine Work & Iron Castings)
*Union Iron Wks., Inc. (Oil Well Supplies & Steam Pumps)
*Warnecke, Albert (General Machine Work)
JEFFERSON—*†Jefferson Fdry. & Machine
LAMPASAS—*Huling, Tom B. Shops
LAREDO—*†§National of Mexico R. R. Shops
LONGVIEW—†Kelly, G. A. Plow Co. (Agrl. Implts.)
*§McDonald, G. B.
LUFKIN—*†Lufkin Fdry. & Machine So. (Saw Mill Mach'y, etc.)
MARSHALL—†Marshall Car Wheel & Fdry. Co. (Car Wheels, etc.)
§Texas & Pacific R. R. Shops
PALESTINE—*†Dilley, Geo. M. & Son (Iron Fdrs. & Cars & Castings, etc.)
PARIS—*Collins & Dulaney
*Graves, W. H.
*†§North Texas Foundry & Machine Co.
PITTSBURG—*†§Pittsburg Foundry & Machine Co.
QUEEN CITY—*†Boyd, W. E.
RUSK—*†Pryor, James T.
*†State Penitentiary
SAN ANGELO—*†San Angelo Mfg. Co.
SAN ANTONIO —*†§Alamo Iron Works
*†§Axtell-Altgelt Co.
†San Antonio Foundry Co.
*†§San Antonio Machine & Supply Co.
*Schiffers, Peter & Sons
*Southern Structural Steel Co.

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SHERMAN—*†§Washington Iron Works
SHERMAN—*†§Washington Iron Works
TEXARKANA—*†De Marce, Mrs. A. (Iron Fdry. & Steam Engines, etc.)
WACO—*†§June, D., Machinery Co. (Mill & Gin Machy., etc.)
WAXAHACHIE—*Cronk, F. S. Co.
WEATHERFORD—*†Lewis, J. R. Foundry & Machine Co.
*†§Weatherford Machine & Foundry Co.
WICHITA FALLS—*Luecke, H. C. (Plows, etc.)
*†§Wichita Falls Foundry & Machine Co.
WINNSBORO—*Culberson, J. R.

## UTAH.

MERCUR—*†§Consolidated Mercur Gold Mines
OGDEN—*†Pearce, Wm. & Son
SALT LAKE CITY—*Crager Wire & Iron Wks.
*†§Davis, Howe & Co.
*Fowler, J. P.
*Hutchinson, C. P.
*Numa Rock Drill Sharpener Co. (Rock Drill Sharpening Machines, etc.)
*†Oregon Short Line R. R. Shops
*†§Salt Lake Engineering Works (Mining Concentrating & Smelting Machinery)
*†§Silver Bros. Iron Works Co. (Iron & Brass Founders, Steam Engines)
*†§Silver, Hyrum A. Fdry. & Machine Co. (Mining, Milling & Smelting Mach'y, etc.)
*Trent Engineering & Machinery Co.
*†U. P. R. R. Shops
*†Union Foundry & Machinery Co.
*†Utah Foundry & Machine Co.
†Western Foundry & Stove Repair Works

## VERMONT.

BARRE—*†Smith, Whitcomb & Cook Co. (Stone Polishing & Working Machy)
BARTON—*†§Murkland, Jno. W.
BELLOWS FALLS—*†§Bellows Paper Mach. Co. (Paper Mill Machy)
*†Vermont Farm Machine Co. (Creamery Machinery, etc.)
BENNINGTON—*Bradford & Lasher
*Cooper, Chas. Est. of (Knitting Machinery, etc.)
*†§Scott, Olin (Gun Powder, Paper & Pulp Mill Machy, etc.)
*Sibley, E. L. (Eyelet Presses)
BRANDON—†§Backus Co. (Heaters, etc.)
BURLINGTON—*Burlington Machine & Repair Co.
*Kidder, J. F. Mfg. Co. (Angle Iron Cutting Machines)
CHESTER—*Stearns, F. H. Mfg. & Supply Co.
DERBYLINE—*Butterfield & Co. (Taps & Dies, etc.)
EAST HIGHGATE—*Rixford Mfg. Co. (Scythes, Axles, etc.)
FAIRHAVEN—*Clogston, Luman
*†Dalrymple, George
*†§Fair Haven Fdry. & Machine Co.
LUDLOW—*Warner, Edw. C.
LYNDONVILLE—§Wood, Edwin T.
MANCHESTER—*†§American Locomotive Co. (See N. Y. C.)
*Hawley, E. J. & C. H. (Sand Feed & Stone Working Machy.)
MIDDLETOWN SPRINGS—*†Gray's, A. W. Sons, Inc. (Agrl. Implts., etc.)
*Gray, Fred E.
MONTPELIER—§Colton Mfg. Co. (Saddlery Hdw.)
*†§Lane Mfg. Co. (Woodworking Machy., Traveling Cranes, etc.)
MORRISVILLE—*†§Morrisville Foundry Co.
POULTNEY—*†§Ruggles Machine Co. (Slate Machinery, etc.)
RANDOLPH—†Sargent, Osgood & Roundy (Plows, Farm Machinery, etc.)
RUTLAND—*Frenier & Son (Sand Pumps & Stone Working Machinery)
*Grimm, G. H. (Evaporators, Steel Ranges, etc.)
*†§Howe Scale Co. (Scales, Engines, Power Hammers, etc.)
*†§Lincoln Iron Works (Stone Working Machy, etc.)
†Patch, F. R. Mfg. Co. (Stone Working Machy, etc.)
*Rutland Machine & Auto Co.
*†Steam Stone Cutter Co. (Stone Working Machy, etc.)
*Stewart, L. & J. A. (Can Makers' Machinery, etc.)
ST. ALBANS—*†St. Albans Foundry & Implement Co. (Agrl. Implts., etc.)
SAINT JOHNSBURY—*American Fork & Hoe Co. (See Cleveland, O.)
*Clark Mfg. Co. (Threshing Machine, etc.)
*†§Fairbanks, E. & T. & Co. (Scales, Power Hammers, etc.)
*§Hooker, O. V. & Son
SOUTH SHAFTSBURY—†Eagle Square Mfg. Co. (Steel & Iron Bedsteads, etc.)
SPRINGFIELD—*Bryant Chucking Grinder Co. (Chuck Grinders, etc.)
*†Fellows Gear Shaper Co. (Gear Shaping Machines)
*Gilman & Son (Last Lathes, etc.)
*†Jones & Lamson Machine Co. (Machine Tools, etc.)
*Parks & Woolsen Machine Co. (Textile Machy.)
*Slack Mfg. Co. (Metal Cutting-off Machines)
†§Vermont Snath Co.
WALLINGFORD—American Fork & Hoe Co. (See Cleveland, O.)
*Wallingford Mfg. Co. (Hdw. Specialties, etc.)
WATERBURY—*†§Cooley Mfg. Co. (Gas Engines)
WESTMINSTER STATION—*Abenaque Machine Works (Gas & Gasoline Engines, etc.)
WEST RUTLAND—*North, Aaron E. (Water Wheels)
WINDSOR—Hubbard & McClary (Hdw. Specialties)
*†Windsor Machine Co. (Machine Tools, etc.)
WINOOSKI—*†§Stevens Machine Co. (Wood Working Machy)
WOODSTOCK—*†Daniels Machine Co. (Agl. Implts., etc.)

## VIRGINIA.

ALEXANDRIA—*Aitcheson, J. & H.
*†Alexandria Iron Works (Iron Fdrs., etc.)
*†Emerson Steam Pump Co. (Steam Pumps, etc.)
ALTAVISTA—*†Altavista Foundry & Machine Co. (Iron Castings, Grate Bars, etc.)
BASIC CITY—†Virginia Stove & Mfg. Co. (Stoves, etc.)
BERKLEY—*Berkley Machine Works
*†Old Dominion Iron Works
BRIDGEWATER—*Miller, W. H.
BUENA VISTA—*†Buena Vista Foundry Co.
CHARLOTTESVILLE—*†Harris, R. F. & Co. (Agrl. Implts., etc.)
*Marshall, George B., Jr.
CHRISTIANSBURG—*Fagg & Rowzie
CLIFTON FORGE—*†Clifton Forge Machine & Foundry Co.
COVINGTON — *†§Covington Machine Co. (Punches, Shears, Rolls, etc.)
CULPEPPER—*Nalle, T. E.
DANVILLE—*†§ Carter, J. T. (Machinist & Fdry.)
*†Westbrook Elevator Co. (Elevators & Tobacco Machinery, etc.)
FINCASTLE—*†Bowyer, O. M. (Machinist & Fdry.)
FREDRICKSBURG — †Hunter, Chas. E. (Plows, etc.)
GLADE SPRING—*Wildasin, C. E.
GRAHAM—*†§Thistle Foundry & Machine Co.
HAMPTON—*†§Hampton Mfg. Co. (Agrl. Implements, etc.)
HARRISONBURG—†Bradley, P. & Sons (Plows & Agrl. Implts.)
*Garber, J. N. & Bro.
KEYSVILLE—†Keysille Plow Works (Plows, etc.)
LYNCHBURG—*†§Glamorgan Pipe & Fdry. Co. (Cast Iron Pipe, etc.)
*Hicks, C. W. & Co.
*†§Hubard Foundry & Machine Works
*†§Lynchburg Foundry Co. (Cast Iron Gas & Water Pipe & General Foundry Work)
*†United Cigarette Machine Co. (Cigarette Machinery)
MANCHESTER—*†§Southern Railway Shops
MARION—*†Look & Lincoln (Inc.) (Agrl. Implements, Wagons, etc.)
*†§Marion Fdry. & Machine Works
MARTINSVILLE—*†§Chesshire, J. W. &
NEWPORT NEWS — *†§Newport News Ship Building & Dry Dock Co. (Steel Ships. Marine Engines, etc.)
*Warwick Machine Co. (Machinists)
NORFOLK—*†§Atlantic Iron Works (Iron & Brass Castings of Every Description)
*†Billups, C. Son & Co. (Agr'l Impl'ts, etc.)
*Chesapeake Launch & Motor Co. (Marine
†Donohue & Marsden Engines, etc.)
*Duvall, Geo. W. & Co.
*†§Edmonds, Walter A. & Co.
*†Elizabeth Iron Works (Engines, Boilers Forgings, etc.)
*†§Etna Iron Works (Machinists, Iron & Brass Castings, Grate Bars, etc.)
*†Godwin, T. W. & Co.
*Norfolk Woodworking Machinery Co (Woodworking Mach'y, etc.)
*†§Ridgewell & Hall
*Smith & McCoy (Engines, etc.)
*†§White, S. R. Sons (Agrl. Implts.)
†Whitehurst, R. W. & Co. (Agrl. Implts., etc.)
NORTON—*†§Norton Car & Foundry Co.
PARKSLEY—*McCready, A. J.
PETERSBURG—*†Ayers, J. R.
*†Steere, A. L. & C. H.
*†§Titus, Elmer E. (Iron Fdry. & Basket & Veneer Cutting Machy., etc.)
POCAHONTAS—*†§Pocahontas Collieries Co.
POOLVILLE—†Pool, S. P.
PORT REPUBLIC—†Port Republic Foundry
PORTSMOUTH—*†§U. S. Navy Yard Co.
*†§Seaboard Air Line
PULASKI—*†Pulaski Foundry & Machine
*†§Virginia Iron, Coal & Coke Co. Co.
PURCELLVILLE—*†Purcellville Fdry. Co.
RADFORD—*†Lynchburg Foundry Co. (Cast Iron Pipe, etc.)
RICHMOND—*†§American Locomotive Co. (Locomotives). (See New York City)
*†Call-Watt Co. (Plows, etc.)
†Cameron Stove Co. (Stoves, etc.)
*†§Cardwell Machine Co. (Machinists & Fdrs.)
†§Carr, Jas. W.
†Continental Stove Co. (Stoves, etc.)
†Frictionless Metal Co. (Bearings, etc.) (See Chattanooga, Tenn.)
*†Johnson, J. R. & Co. (Car Axles, etc.)
§McGee, O. G. & Son
*McLauchlan, Thos.
†Old Dominion Iron & Nail Works Co. (Iron Fdrs. & Nails & Bar Iron, etc.)
*†Oliver Chilled Plow Works (Agrl. Implements)
*†Richmond Electric Co. (Dynamos, etc.)
*Richmond Engine & Pump Co.
*†§Richmond Fdry. & Mfg. Co. (Light Grey Iron & Brass, Rough and Machined Castings)
*†§Richmond Iron Works (Iron & Brass Castings, Builders' Iron Work)
*†§Richmond Machine Works
†Richmond Pattern & Structural Iron Works (Stove Mfrs. & Castings)
†Richmond Stove Co. (Stoves, etc.)
*Smith-Courtney Co. (Machinists, etc.)
†Southern Stove Works (Stoves, etc.)
†Starke's Dixie Plow Works (Agrl. Implements, etc.)
*†§Strickland Machine Co. (Machinists & Fdrs.)
*Tower-Binford Electric & Mfg. Co. (Electrical Specialties)
*†§Tredegar Co. (Car Wheels & Brass & Iron Castings)
*Turner, Jno. & Son (Machinists)
*Umlauf, J. A. (Elevators)
ROANOKE—*†§Norfolk & Western R. R. Shops
*†§Roanoke Iron Works (Rebuilt Locomotives, Steam Shovels, etc.)
*†Virginia Bridge & Iron Co. (Bridge & Steel Structural Work, etc.)
RURAL RETREAT—*†Lobdell Car Wheel Co. (See Wilmington, Del.)
SALEM—*†§Camden Iron Works (Iron Fdrs., etc.)
*Comas Cigarette Machine Co. (Cigarette Machinery)
*†§Salem Foundry & Machine Wks (Flour Mill Mach'y)
STAUNTON—*†Leader Plow Co. (Plows, etc.)
†Stockdon, B. F. & Bros.
SUFFOLK—*†Benthall Machine Co. (Peanut Picking Machines, etc.)
†Ousler, H. M.
SUTHERLIN—*†Kerns, H. O.
TOMSBROOK—†Powell's Fort Stove Co.
VESUVIUS—†Vesuvius Plow Works (Agrl. Implts.)
WAYNESBORO—†Loth, W. J. Stove Co. (Stoves)
*†Rife & Schoppert (Iron Fdrs. & Machinists)
WINCHESTER—*†Snapp, F. R., & Sons
WYTHEVILLE—*†§Wytheville Iron Works

## WASHINGTON.

ABERDEEN—†Douglas Bros.
*†§Vulcan Iron Works (See Seattle
ASOTIN—*Brown, L. K.
BELLINGHAM—*§Bellingham Engineering & Machine Works
†Bellingham Foundry Co.
*Burpee & Letson (Ltd.) (Saw Mill Machinery)
*Walling, S. E.
*†§Whatcom Machinery Depot
BLAINE—*Rohrbacher, E. J.
CENTRALIA—*§Symons, J. P. Co.
COLFAX—*†§Carley Bros.
DAYTON—*Pringle, H. N.

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EVERETT—*†Schofield, Fred
*†§Summer Iron Works (Saw & Shingle Mill Machy., Boilers, etc.)
†Washington Stove Works (Stove Mfrs.)
HOQUIAM—*†Gray's Harbor Iron & Steel Co.
*Lamb, F. H.
NEWPORT—*Miner, F. W.
NORTH YAKIMA—*†Yakima Iron Works
*†Yakima Iron Works
OLYMPIA—*Allen, R. N.
*§Mason, C. Z.
*†§Pioneer Iron Works
PALOUSE—*Halfhide, R. & Co.
RAYMOND—*†§Raymond Foundry & Mach.
RITZVILLE—*Landreth, W. H. Works
SEATTLE—*Biegert, J. C. Machine Works (Machinists)
*Campbell Bros. (Marine & Stationary Engines)
†Cascade Steel Fdry. Co. etc.)
§Eagle Brass Foundry Co.
*Elliott Bay Iron Works (Saw Mill Machinery, etc.)
§Enterprise Brass Foundry Co.
*Erickson-Wyman Co. (Electrical Elevators, Dynamos, Motors, etc.)
*Gifford, E. O. (Machinist)
*Heffernan Engine Works (Steam Engines,
*Hutton, A. F. (Machinist) etc.)
*Jones, Chas. C. & Co. (Machinists)
*McCabe, W. L. (Machinist)
*Marine Iron Works
*Meese & Gottfried Co. (See San Francisco, Cal.)
*Miller, J. K. Co. (Blowers, Heating Apparatus, Ventilating Fans, etc.)
*†§Moran Co. (Ship Builders, Marine Engines, Iron & Brass Fdrs., etc.)
*N. & S. Electric Co. (Electric Motors,
†N. & S. Foundry Co. etc.)
*†Northwestern Iron Works (Iron Fdrs & Machinists & Marine, Mill & Mining Machinery)
*§Olympic Foundry Co. (Grey Iron & Builders' Castings, etc.)
*Palmer Bros. (Gasoline Engines)
*Philbrick Cutterhead Co. (Cutterheads)
†Popple & Knowles Co. (Furnaces, etc.)
*Puget Sound Machinery Depot (Jobbing,
*Schaake Machine Works Repairs, etc.)
*Seaborn Iron Works
§Seattle Brass Co. (Brass Fdrs.)
*†Seattle Car Mfg. Co. (Logging Trucks, Cars, etc.)
*†Seattle Frog & Switch Co. (Frogs, Switches, etc.)
*Seattle Machine Works (Machinists, etc.)
*Star Mach'y Co. (Gang Edgers, Hoists, etc.)
*Stetson-Ross Machine Works (Woodwork-
*§Tracy Bros. ing Machy.)
*†Union Iron Works
*Uren, Andrew (Machinist)
*†§Variety Iron Works (Machinery & Castings)
*†§Vulcan Iron Works (Iron & Brass Fdrs. & Mining Machy., etc.)
*†Washington Iron Works Co. (Hoisting & Logging Engines, Castings, etc.)
*†West Coast Iron Works
*†Westerman Iron Works (Iron Fdrs. & Machinists)
SEDRO WOOLLEY—*†§Sedro Woolley Iron Works
§NOHOMISH—*†Snohomish Iron Works Co.
SOUTH BEND—†Gilchrist, John G.
SPOKANE — *†§Armstrong Machinery Co. (Ice & Refrigerating Machy., etc.)
*†§Barnard Mfg. Co. (Flour Mill Machin-
*Hallidie Co. (Mining Mach'y, etc.)
†Klein, Henry A. inery, etc.)
*†National Iron Works (Inc.) (Mining Machinery, Castings, etc.)
*Pacific Iron Works (Machinists)
*Simmons & Sons (Builders Iron & Machine Work)
*Spokane Ornamental Iron & Wire Works
*Utley, J. D.
*†§Union Iron Works (Mining Machinery, Engines, Castings, etc.)
TACOMA—†§Atlas Foundry & Machine Co.
*Auto Marine Machine Wks. (Jobbing)
*Coast Iron & Machine Wks. (General Ma-
§Enterprise Brass Fdry. Co. chine Work)
*Felland, G. G. & Co. (Tool Makers &
*†§Globe Iron Wks. Machinists)
*†§Griffin Wheel Co. (Car Wheels). (See Chicago, Ill.)
*Hallin Gas Engine & Boat Co. (Gas En-
*Hoskins, L. G. (Machine Work) gines)
†Meridian Foundry Co. (Grey Iron Castings)
*Morison & Scott Machine Co. (General Machinists)
†§National Foundry Co. (Grey Iron & Brass Castings)
*†Olympic Fdry. & Machine Co.
*Pacific Coast Elevator & Machine Co.
*†§Phoenix Engineering Co.
*†§Puget Sound Iron & Steel Wks. (Gasoline Engines, Log Hauls, etc.)
§T. & B. Brass Fdry. Co.
*Tacoma Auto Mfg. & Supply Co. (General Jobbing)
*Tacoma Engineering Wks. (Gasoline Engines)
§Tacoma Ry. & Power Co.'s Shops.
*†Tacoma Smelting Co. (Smelters, etc.)
*Walstad Machine & Electric Co. (General Machine Work)
*†Washington Pipe & Foundry Co.
*§Western Brass Wks., Inc. (Plumbers' Specialties)
*Wheeler & Hansen (Machine Work)
WALLA WALLA—*†§Hunt, Gilbert Co. (Agl. Implts., etc.)
*Washington Weeder Works (Disc Cultivators)

## WEST VIRGINIA.

BLUEFIELD—†Superior Supply Co.
CAMERON—*Cameron Tool Co.
CHARLESTON — *†§Kanawha Mine Car Co. (Coke Oven Castings, Mine Cars, Wheels & Axles, etc.)
*Kelly Axe Mfg. Co. (Axes, etc.)
*†§South Side Foundry & Machine Works (Iron Castings & Mine Fans, etc.)
†Ward, Chas., Engineering Co. (Marine Boilers, etc.)
CHARLESTOWN—*§Powhattan Brass & Iron Works (Brass Fdrs. & Brass Finishers'
*†Weller, J. F. Plumbing Goods)
CLARKSBURG — *†§Clarksburg Foundry & Casting Co.
*†Hart Bros. Machine Co. (Engines & Saw
*Osborne, W. B. Machine Co. Mills)
*†Osborne's, J. F. Sons (Iron Fdrs. & Engines & Saw Mills)
ELKINS—*†Elkins Foundry & Machinery Co.
*†§Humphrey Mfg. Co.
FAIRMONT—*Aultman, T. G. (Steam Pumps.
*Donnelly, A. H. etc.)
†Fairmont Foundry Co.
*†Fairmont Mining Machinery Co. (Mining Machinery & Soft Castings)
*†§Helmick Foundry & Machine Co. (Coal) & Coke Oven Equipments, etc.)
†Mountain City Stove & Fdry. Co. (Stoves.
GRAFTON—*Moran, Patrick etc.)
*†§Newlon Foundry & Machine Co.
HINTON—†§Hinton Foundry, Machine & Plumbing Co.
HUNTINGTON—*†American Car & Fdry. Co. (See St. Louis, Mo.)
†Huntington Stove & Foundry Co. (Stoves)
*†Ingram & O'Neal
*†§Jarvis Machinery & Supply Co.
†West Va. Foundry & Stove Co.
KEYSTONE—*†Central Machine Works
MANNINGTON—*Phillips, Chas., Tool Co.
MARTINSBURG—*†Matthews, T. E. & Bro.
*Shaffer, George H.
MORGANTOWN—*†§Romisch Mfg. Co.
MOUNDSVILLE—†Mountain State Gas Stove & Mfg. Co. (Gas Stoves, etc.)
NEW MARTINSVILLE—†Koppel & Lannam
†Kotzebue, G. W. (Heaters, etc.)
PARKERSBURG—*Acme Fishing Tool Co. (Oil Well Supplies)
*American Drilling Tool Co. (Oil Well Sup-
*Baldwin Forging & Tool Co. plies)
*Crotty, J. J. & Co.
†Kelley, Michael (Iron Fdry.)
*Kesselman & Co. (Machinists & Oil Well Tools, etc.)
*National Sucker Rod Co. (Sucker Rods, etc.)
*Oakley & Jansen Machinery Co. (Woodworking Machinery)
*Parkersburg Machine Co. (Machinists)
*†§Stiles Mfg. Co. (Iron & Brass Castings & Machine Work)
PHILIPPI—*†§Philippi Fdry. & Machy. Co.
PIEDMONT—*†§Piedmont Foundry & Mach. Co. (Iron Fdrs. & Machinists)
POINT PLEASANT — *§Point Pleasant Machine Works
†West Virginia Malleable Iron Co.
RONCEVRETE—*†§Eagle, J. W. P.
SISTERVILLE—†Davin, J. J.
*Finleyson, Jno.
*McJunkin, E. J.
*Sexton Machine Co.
WELLSBURG—*Teeple, W. S.
*†Wellsburg Foundry & Mach'y Co.
*†§Wellsburg Heating & Foundry Co. (Hot Air Furnaces)
WESTON—*†§Dancer Mfg. & Supply Co.
WHEELING—*†American Sanitary Mfg. Co. (Enameled Iron Ware, etc.)
*†Center Foundry & Machine Co. (Glass House & Pottery Mach'y, etc.)
†Co-operative Stove Co. (Stoves)
*Hazel-Atlas Glass Co.
*†Mahlke, R. H. Mold & Machine Works
*†National Tube Co. (Riverside Iron Wks.)
*†Portsmouth Steel Co. (Grey Iron & Steel Castings). Works, Portsmouth, O.
*Riverside Bridge Co.
*Sands Electric & Mfg. Co.
*Spears & Riddle Co. (Machine Tools)
*Warwood Tool Co. (Tools, etc.)
*Weisgerber & Ebeling Machine Co.
*†§Wheeling Mold & Foundry Co. (Glass House & Rolling Mill Mach. & Castings)
*†Wheeling Steel & Iron Co. (Grey Iron Castings, etc., for Own Use Only)
†Wheeling Stove & Range Co. (Stoves Ranges, etc.)

## WISCONSIN.

ADBELL—†Helminger, Chas.
ALBANY—*Morgan & Whitcomb (Hardware Specialties)
ALGOMA—*†§Wodesedalek, Jos. & Co.
ANTIGO—*†§Pioneer Iron Works
APPLETON—*†§Appleton Machine Co. (Paper & Pulp Mill Machinery)
*§Appleton Screen Plate Co.
*Double Power Mill Co. (Windmills, Agrl. Implements, etc.)
*†Eagle Mfg. Co. (Portable Gas Engines, etc.)
*†§Valley Iron Works Co. (Iron & Bronze Castings & Wood Pulp Machy., Turbines,
ARCADIA—*Fernholz, Henry etc.)
ASHLAND—*†§Bretting, C. G. Mfg. Co.
†Sanders, Robert E. (Boilers, etc.)
BARABOO—*Farnum, C. H.
*Gollmar, George J.
BEAVER DAM—*†Beaver Dam Malleable Iron
*§Beaver Dam Foundry Co. Co.
*†Beaver Dam Mfg. Co. (Agrl. Implts.,
*Harder, H. J. (Gas Engines) etc.)
*†Malleable Iron Range Co. (Malleable Iron Ranges)
*Ordway, A. F. & Son (Mill Machy)
*†Rowell, J. S. Mfg. Co. (Agl. Implts., etc)
BELOIT—†Beloit Foundry Co. (Grey Iron Castings)
*†§Beloit Iron Works (Paper Mill Machinery)
*Besly, Chas. H. & Co. (See Chicago, Ill.)
*Dowd, R. J., Knife Works (Machine Knives, etc.)
*†§FAIRBANKS, MORSE & CO. (Gas Engines, etc. (See adv. index, end of book)
*Gardner Machine Co. (Disc Grinders, etc.)
*†Gaston's, N. B. Sons Co. (Scales, etc.)
§Hammel, A.
*Mattison, C. Machine Works (Woodworking Machinery)
*†Slater, Marsden & Whittmore Co. (Punching & Shearing Mach'y)
*†Thompson, J. & Sons Mfg. Co. (Agrl. Implts., Engines, etc.)
*§Warner Instrument Co. (Speed Indicators, etc.)
BERLIN—*†Johnson-Fortman Machine Works
*†Schaefer Mfg. Co. (Gas & Gasoline Engines, etc.)
BLACK EARTH—*Fesenfeld & Barber
BLOOMER—*Bloomer Machine Works
BOSCOBEL—*†Ruka Bros. Mfg. Co.
BRILLION—*†Brillion Iron Works
BRISTOL—*Curtis, Wells
BROOKLYN—*Farmers' Mutual Benefit & Trading Co.
BURLINGTON — *§Burlington Brass Works (General Brass Founders & Finishers)
*Lawton & Bushman (Tools, etc.)
*†Wagner Bros.
*Zwiebel, A., Jr.
CEDARBURG—*†Cedarburg Foundry Co.
CEDAR GROVE—*†§Wisconsin Foundry & Steel Works (Iron & Steel Castings)
CHILTON—†Vahldeck, A. H.
CHIPPEWA FALLS—*†Stanley, F. G. & C. A. Company
CLINTON—†Smith & Holtum Mfg. Co. (Cast-
COLBY—*Loos, E. D. ings, etc.)
COLUMBUS—*Roberts, G. D. & Co.
CORLISS—*Corliss Engineering Co.
*†Wisconsin Engine Co. (Corliss Engines, Mining & Rolling Machinery & Castings)
CUDAHY—*†Power & Mining Machinery Co. (Gas Engines, Mining Machinery, Boilers, Tanks, etc.)
DE PERE—*†§Lawton, Chas A. Co.
*†Lyons Boiler Works
†Western Steel & Iron Works
DORCHESTER—*Fleckenstein, V.
DOUSMAN—*Maxwell & Jenkins
EAU CLAIRE—*Drake, P. A.
*†International Harvester Co. (See Chicago, Ill.)

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*†McDonough Mfg. Co. (Saw Mill Machinery, etc.)
*†§Northwestern Steel & Iron Works (Agl. Implements, etc.(
*†Phoenix Mfg. Co. (Saw Mill Machy., Steam Engines, etc.)
EDGERTON—Burgy, F. F. (Gasoline Engines, etc.)
ELKHORN—*Zwiebel & Griebel (Machinists)
ELLSWORTH—*†Rounce, J. S.
EVANSVILLE—*†§Baker Mfg. Co. (Wind Mills & Engines)
FOND DU LAC—*Abel Bros.
*†Fond Du Lac Implement Co. (Agl. Implements)
*†Giddings & Lewis Mfg. Co. (Iron Fdrs. & Saw Mill Machinery)
*Glasow, Fred (Plows)
*Quentin, Peter N. (Gas Engines)
FORT ATKINSON—*†§Cornish, Curtis & Green Mfg. Co. (Creamery Pkg. Mfg. Co., Chicago, Ill., Props.)
*Pounder, Geo. H. (Harrows, etc.)
FOUNTAIN CITY—*Dressendorfer, Andrew
GILLETT—*†Frisbie, Marion G.
GRAFTON—†Grafton Foundry Co.
GRAND RAPIDS—*†§Grand Rapids Fdry. Co.
GREEN BAY — *†§American Wood Working Machinery Co. (See Rochester, N. Y.)
*†§Green Bay Foundry & Machine Co.
*Green Bay Machine Co.
*Hartmann, Nelson-Zappe Co.
*Hudson-Sharp Machine Co.
*Laurent, Henry
†§Rothe, Jos. F. (Castings)
*Straubel Machine Co.
HARTFORD—*Hartford Plow Co. (Plows,
HARTLAND—*Ordway, E. C. etc.)
HORICON—*†Van Brunt Mfg. Co. (Agrl. Implements, etc.)
JANESVILLE—*†Badger State Machine Co. (Punching & Shearing Machinery)
*Bicknell Mfg. & Supply Co. (Power Machinery, etc.)
*†Janesville Machine Co. (Agl. Implts., etc.)
*†§New Doty Mfg. Co. (Punching & Shearing Machinery)
*Rock River Machine Co. (Punching & Shearing Machinery)
*Strickler Hay Tool Co. (Hay Tools, Hdw.)
JUNEAU—*Brensike, John & Son
*†Briemann, Chas. G.
KAUKAUNA—*Hoehne, Fred & Sons
KENOSHA—*†Arneson Foundry Co. (Grey Iron Castings, etc.)
*Arnold, W. G. (Repairs)
*§Badger Brass Mfg. Co. (Auto Lamps, Acetylene Gas Generators, etc.)
*Chicago Brass Co. (Machine Shop for Their Own Repairs)
*§Frost Mfg. Co. (Plumbers' Brass Goods, etc.)
*†§Jeffrey, Thos. B. & Co. (Automobiles)
*†§Simmons Mfg. Co. (Metallic Bedsteads, etc.)
*†Wells, Frank L. (Spring Bed Machinery, etc.)
KEWASKUM—*Remmel, Nicholas (Machinist)
KEWAUNEE—*†§Hamacek, Frank
KIEL—*Richart, J. F.
KILBOURN—*†§Kilbourn Machine Co.
LA CROSSE—*Benton Electric Co. (Dynamos,
*Franklin Iron Works Engines, etc.)
*†James, Alfred
*†§La Crosse Plow Co. (Plows, etc.)
*Ott, Benj. Sons Co. (Bark Shaving Mills)
*Pederson Gas Engine Works
*†Smith Mfg. Co. (Wagons, Grey Iron Castings, Stump Pullers, etc.)
*Stamping & Tool Co. (Steel Novelties, Dies, etc.)
*Starch Bros. Co. (Cream Separators, etc.)
*†Torrence, Jno. & Son (Machinists & Builders & Machinery Castings, etc.)
LAKE MILLS—*†Fargo Creamery Supply House (Creamery Mach'y)
LANCASTER—*Hyde, E. H. (Machinist)
LOYAL—*Etta Bros.
MADISON—*American Plow Co. (Agrl. Implements)
*†§Fuller & Johnson Mfg. Co. (Agrl. Implements, Gasoline Engines, etc.)
*†§Gisholt Machine Co. (Machine Tools, Vertical & Horizontal Boring Mills, Turret Lathes, Tool Grinders, Brass & Iron Founders)
*†§Kupfer, Theodore Power Shears, etc.)
*Madison-Kipp Lubricator Co. (Lubricators)
*†Northern Electrical Mfg. Co. (Dynamos,
*Peper, John W. Generators, etc.)
*Steinle Turret Machine Co. (Turret Lathes)
*†Wisconson Foundry & Machine Co. (Printing Presses, etc.)
MANAWA—*Ory Mfg. Co.
MANITOWOC—§Aluminum Fdry. Co. (Aluminum Castings)
*§Aluminum Goods Mfg. Co. (Aluminum Castings & Specialties)
§Aluminum Specailty Co. (Aluminum Novelties)
§American Aluminum Foundry Co. (Aluminum & Brass Castings)
*Dedrich, N. (Special Machy., etc.)
*Manitowoc Dry Dock Co. (Steel Ships, Engines, etc.)
*†Manitowoc Foundry & Machine Co. (Grey Iron Castings, etc.)
*†§Richards Iron Works (Engines, Grey Iron Castings, etc.)
*†§Smalley Mfg. Co. (Agrl. Implts., Plows,
MARINETTE—*Raymond Mfg. Co. (Saw Mill
*Sandlund, Peter Mach'y)
*†Stevens, A. W. Co. (Agrl. Implts., Engines, etc.)
MARSHFIELD—†Lang & Scharmann
*Mettelka, John J.
MARYTOWN—*Langenfeld, Jno.
MAUSTON—*Strong, H. C.
MENASHA—*†Paul-Luttman Co.
*†§Sailor, Whitmore Machine Co.
MENOMONEE FALLS—*†Rowell, I. B. Co. (Agl. Implts., Gasoline Engines, etc.)
MENOMONIE—*†§Globe Iron Works Co. (Gasoline Engines)
MERRILL—*†§Merrill Iron Works
MILWAUKEE—*Acme Pattern & Mfg. Co.
*†§ALLIS-CHALMERS CO. (Mining Machinery, Steam Turbines, Engines, Pumps, etc.). (See adv. index, end of book)
*†American Bridge Co., 17th st & St. Paul av. (See also New York City)
*Badger Meter Mfg. Co., 261 3d
*Barth Mfg. Co. (Jacks, etc.)
*†Bay View Steel Casting Co. (Steel Castings, etc.), 132 S. Bay
*†Bayley Mfg. Co. (Steam Fans & Blowers, etc.), 732 Greenbush
*Beaver Mfg. Co. (Gasoline Engines)
*†Brand Stove Co. (Stoves), 303 6th
*Brodesser Elevator Mfg. Co. (Elevators &
*Busch, J. C. Rolling Mill Mchy)
*†C., M. & St. P. R. R. Shops
†Central Foundry Co., 705 Park
*†CHAIN BELT CO. (Grey & Malleable Iron & Steel Castings, Conveyors, Chain Link, etc.) (See adv. index, end of book)
*†Colnik, C. Mfg. Co. (Bldrs.' Iron Work)
†Crucible Steel Casting Co. (Crucible Steel Castings)
*†§CUTLER-HAMMER MFG. CO. (Electrical Specialties). (See adv. index, end of book)
*Davis Mfg. Co. (Hdw., Gasoline Engines)
*§Dengel, F. R. Mfg. Co. (Plumbers' Goods)
†Dickson Malleable Iron Co. (Castings, etc.)
*Doelger & Kirsten (Power Shears, etc.)
*Downey Heating & Supply Co. (Jobbing & Repairs, etc.)
*Durant, W. N. Co. (Speed Indicators, Counting Machines)
*El Starr Mfg. Co. (Tool Grinders, etc.)
*†Falk Co. (Steel Castings & Railroad Specialties), Menominee Valley ft 30th
*†§Filer & Stowell Co. (Seam Engines, Pumps, Saw Mill Machinery, etc.)
*†Fraser Co. (Engines & Milling Machines)
*†Fuller-Warren Co. (Stoves, etc.)
†Galland-Henning Pneumatic Malting Drum Mfg. Co. (Brewers' & Malsters' Machinery), 97 Wisconsin
*Gas Power Engineering Co.
*†Greenslade Foundry Co., Jackson & Corcoran av
*Hackendahl & Schmidt Co. (Bldrs., Iron Work, etc.)
*Heil Co. (Structural Iron Works, etc.)
*Heller, Siegfried (Electric Elevators & Hoisting Machinery), 250 Milwaukee
*†Hennecke, C. Co. (Builders' Iron Work, etc.)
§Hewitt Mfg. Co. (Brass & Bronze Castings), 241 Greenfield av (See Chicago, Ill.)
*Hide & Leather Working Mach. Co., 653
*†Hirsch Bros. (Agrl. Implts.) E Water
*†§Hoffman & Billings Mfg. Co. (Iron & Brass Fdrs. & Steam Fitters' & Plumbers' Supplies)
*Holt Electric Co. (Electrical Specialties)
*†§International Harvester Co. of America, Colby-Abbot bldg. (See Chicago)
*§Johnson Service Co. (Heat Regulators, etc.)
§Kagel Bros. Co., 1208 St. Paul av
*Kearney & Trecker (Machine Tools), 59th & National av
*Kempsmith Mfg. Co. (Machine Tools, etc.)
*Kieckhefer, A. Elevator Co. (Electric, Hand & Power Elevators), 1026-1104 St. Paul av
*Kopperud, Andrew (Machinist), Madison & Barclay
*Krahn Mfg. Co. (Machinery, etc.)
*§Kruecke Bros. Mfg. Co. (Brass Fdrs., Brewers' Pumps, Castings of All Kinds)
*§Lamp & Miller Mfg. Co. (Brass Fdrs. & Finishers)
*†Lindeman, A. J. & Hoverson Co. (Stoves) 497 E Water
*†Lindemann, J. P. & Sons (Stoves), 5000 State
*§Loeffelholz Co. (Railroad Car, Cabinet & Office Trimmings, etc.), 170 Clinton
*Logemann Bros. Co. (Hydraulic Machinery, etc.)
*Luitink & Sons Mfg. Co. (Door Hangers, etc.)
*Luther Bros Co. (Tool Grinders, etc.)
*Lutter & Gies (Machine Tools), 258 Lake
*Manthey-Sieker Co.
†Maynard Steel Foundry Co., 710 Reed
*MECHANICAL APPLIANCE CO. (Dynamos, Motors & Generators). (See adv. index, end of book)
*Megow, C. F. Co. ("Champion," Commer-
*Meyer, Geo. J. Mfg. Co. cial Trucks)
§Milwaukee Aluminum & Brass Foundry Co. (Aluminum & Brass Castings)
*Milwaukee Auto Engine & Supply Co.
*§Milwaukee Brass Mfg. Co. (Plumbers' Brass Goods), 241 Lapham
*†Milwaukee Bridge Co. (Steel Structural Work, etc.), 1400 34th
*Milwaukee Dry Dock Co.
*Milwaukee Hay Tool Co.
*Milwaukee Locomotive Mfg. Co. (Gasoline Locomotives)
*Milwaukee Machine Tool Co. (Machine
*Milwaukee Machinery Co. Tools)
*†Milwaukee Malleable & Grey Iron Wks.
*Milwaukee Mfg. Co.
*Milwaukee Metal Working Co., Montgomery bldg
*Milwaukee Motor Co. (Gas & Steam Engines), 32nd & Burleigh
†Milwaukee Steel Foundry Co., S Water & Virginia
*†Milwaukee Stove & Heater Co. (Stoves, etc.)
*§Milwaukee Valve Co. (Valves & Steam
*Miotke, Jos. Specialties, etc.)
*†Mueller, L. J. Furnace Co. (Furnaces & Heating Apparatus, etc.), 197 Reed
*Munkwitz, Edw. H. Co. (Machinists), Muskego av & 16th st
*Munn Hdwe. & Mfg. Co., 132 Mason
§Murphy Specialty Co., 94 2d
*Nash, J. M. (Chair, Wood Polishing & Woodworking Machinery)
*National Blower Works (Blowers, Exhausters, Driers, etc.), 17th & St. Paul av.
*†§NATIONAL BRAKE & ELECtric Co. (Steel Castings, Air Brakes, Compressors, etc.), Larkin & Belleview pl. (See adv. index, end of book)
*National Machine Co. (Lathes, etc.)
*Netzow, Chas. F. Mfg. Co. (Sewing Machines, etc.)
*†Nordberg Mfg. Co. (Engines, Pumping Machinery, etc.)
*†Northwestern Malleable Iron Works
*Northwestern Mfg. Co. (Dynamos & Motors), Clinton & Madison
†Nortmann-Duffke Foundry Co. (Crucible Steel & Grey Iron Castings, etc.)
*Obenberger Drop Forge Co. (Crankshafts)
*Obenberger, John & Son Co. (Dumping Buckets, etc.)
*Obenberger, Joseph & Son Co.
*†Pawling & Harnischfeger (Electric Cranes & Hoists, etc.)
*Pfeiffer & Smith (Machinists), 495 Clinton
*Phenix Mfg. Co. (Hardware Specialties)
§Polachek, Chas. & Bro. Co. (Gas Fixtures, etc.)
†Prescott Malleable Iron Co. (Malleable Iron Castings)
†Prime Steel Co. (Crucible & Manganese Steel Castings)
*Prinz & Rau Mfg. Co. (Brewers & Malsters & Flour Mill Mach'y, etc.)
§Progressive Metal & Refining Co. (Babbitt Metal & Castings)
*Richardson-Phenix Co. (Lubricators, etc.)
*†§Rundle Mfg. Co., Wahl & 27th av
*§Rundle-Spence Mfg. Co. (Steam Enameled Iron & Plumbing & Brass Fdrs., etc.), 63 2d
*Schneck Machine Co., 811 St. Paul av

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*Schwab, Ph. Co.
*†Schwab, R. J. & Sons Co. (Iron Fdrs. & Machinists & Hot Air Furnaces)
*†§Sheriffs Mfg. Co. (Propeller Wheels & Marine Engines, etc.), 124 Barclay
*Sherman, W. S. & Co. (Woodworking Machinery, etc.), 495 Clinton
†Sivyer Steel Casting Co. (Crucible Steel Castings)
*Skobis Bros. Co. (Builders' Iron Work)
*Smith, A. O. Co. (Automobile Gears, Steel Frames)
*†Smith, Geo. H. Steel Casting Co. (Steel & Manganese Steel Castings & Machine Works)
*Smith Machine Co. (Concrete Mixers, etc.)
*SMITH, T. L. CO. (Concrete Mixers, etc.), Majestic bldg. (See adv. index, end of book)
*Smith & Post Co. (Cold Saws, Rock Crushers, etc.)
†South Side Malleable Casting Co. (Malleable Iron Founders)
*†Speich Stove Repair Co., 130 W Water
*§Spence Mfg. Co. (Brass Fdrs. & Plumbing Goods)
*§Standard Brass & Iron Works (Brass Founders & Finishers)
*Steam Appliance Co. (Steam Appliances)
*Stehling, Chas. H. Co. (Tanners' Machy.)
*Steinbach, Wm. Sons
*Sterling Wheelbarrow Co. (Wheelbarrows)
*†Toepfer, W. & Sons (Iron Works)
*†§VILTER MFG. CO. (Corliss Engines, Ice Machines, Brewery & Bottling Machinery, etc.), 1046 Clinton. (See adv. index, end of book)
*Wagner, Adolph F. (Builders' Iron Work)
*§Wambold Mfg. Co., 3009 Lisbon av
†Wehr Steel Co. (Crucible Steel Castings)
*Western Fixture Co. (Display Fixtures, §Windsor Mfg. Co., 570 Clinton etc.)
*Wisconsin Bridge & Iron Co. (Steel Structural Work, etc.), Colby-Abbott bldg
*†Wisconsin Foundry Co., 32d & Locust
§Wisconsin Iron & Wire Works
*Wisconsin Machinery & Mfg. Co.
†§Wisconsin Malleable Iron Co.
*Yale, H. P. & Co., 99 W Water
MONROE—*†Lanz, A. & Sons (Machinists)
NEENAH—†Aylward Sons Co.
†Bergstrom Stove Co. (Stoves)
*Johnson & Wells Machine Co.
*§Neenah Brass Works
NEW HOLSTEIN — *Lauson, John Mfg. Co. (Gas & Gasoline Engines, etc.)
NEW LONDON—Schmidt & Harris
NORTH MILWAUKEE—*Avery Scale Co. (Scales of All Kinds)
†Nelson Foundry Co. (Grey Iron Castings, 1 lb. to 1,000 lbs.)
*†Wagner, E. R. Mfg. Co. (Baby Carriages, *Wisconsin Bridge & Iron Co. etc.)
*Wisconsin Motor Mfg. Co. (Gasoline Engines)
OCONOMOWOC—*†Moldenhauer, F. W.
*Osen, Andrew (Threshing Machines, etc.)
OOSTBURG—†Oostburg Steel Foundry Co. (Crucible Manganese Steel Castings)
OSHKOSH—*†Barnes, J. A. Machine Co.
*†Challoner Co. (Saw Mill Machy.)
*Dauber, C. G. Machine Co.
*†§Davis-Hanson Co. (Pumps, etc.)
*†Doman, H. C. Co. (Boats & Gasoline Engines)
*†Hayes, E. B. Machine Co. (Woodworking *Oshkosh Machine Co. Machinery)
*Oshkosh Mfg. Co. (Logging Tools, etc.)
*Pine-Ihrig Machine Co. (Bed Spring Machinery, etc.)
*Ransom Mfg. Co. (Tool Grinders, etc.)
*†§Termaat & Monahan Co. (Pumps & Locomotives)
*†Wilkin-Challoner Co. ( Saw Mill Machinery)
PLATTEVILLE—*§Galena Iron Works Co. (See Galena, Ill.)
*Keystone Driller Co. (See Beaver Falls,
PLYMOUTH—†§Thurman, F. & Co. Pa.)
*Wolf, Henry F.
PORTAGE—*†§Baird & Slinger
PORT WASHINGTON—*†§Gilson Mfg. Co.
†Martin & Wester (Gasoline Engines, etc.)
*†§Turner Mfg. Co. (Gas & Gasoline Engines, Grey & Malleable Iron Castings, etc.)
*Western Implement Co. (Disc & Tool Grinders, etc.)
PRAIRIE DU CHIEN—*Beuthin, Chas. F. W.
PRINCETON—*Mueller, Eric
RACINE—*Advance Mfg. Co. (Dies, Tools, etc.)
*American Mangle & Roller Co. (Laundry Machinery)
*†American Skein & Foundry Co. (Jack Screws, etc.)
*†Belle City Malleable Iron Co.
*†§Belle City Mfg. Co. (Agl. Implts., Castings, etc.)
*†§Case, J. I. Threshing Machine Co. (Agl. Implts.)
*†Case, J. I. Plow Works (Plows & Agl.
†§Chalmers, Peter Implts.)
*Christensen Machine Co.
*Didier, Wm. Mfg. Co. (Jobbing Mach'sts)
*Domestic Mfg. Co. (Laundry Machinery)
*Driver, C. H. (Sand Papering Machines)
*†Foster & Williams Mfg. Co. (Agrl. Implts., etc.)
*Freeman, Geo. B. Mfg. Co. (Bits, Neckyokes, etc.)
*†§Freeman, S. & Sons Mfg. Co. (Agrl. Implts., Windmills, etc.)
*Gorton, Geo. Machine Co. (Engraving Machines, etc.)
*Green, E. J. Engineering Co. (Special Machinery, etc.)
*Harvey Spring Co. (Bolster Springs, etc.)
*Higgins Spring & Axle Co. (Springs & Axles, etc.)
*†§Holbrook-Armstrong Iron Co. (Aluminum, Brass & Grey Iron Castings)
*†§Imperial Bit & Snip Co. (Saddlery & Wagon Hardware, etc.)
*Lang Mfg. Co.
†Lakeside Malleable Castings Co.
*Mitchell, Lewis Motor Co. (Automobiles)
*†§Pierce Motor Co. (Automobiles, etc.)
*Piggins Bros.
§Racine Aluminum & Brass Co.
*§Racine Brass & Iron Co.
*Racine Economy Co.
*Racine Engine & Machine Co. (Confectionery Machinery & Vertical Engines)
*Racine General Mfg. Co. (Hdwe. Specialties, etc.)
*†Racine Malleable & Wrought Iron Co. (Hdw. Specialties, Copying Presses, etc.)
*Racine Metal Stamping Co. (Spring Hinges, etc.)
*Racine-Sattley Co. (Agrl. Implts.. etc.)
†Racine Steel Casting Co. (Steel Castings)
*Racine Tool & Machine Co. (Hack Saw Machines, Gas Engines, etc.)
*†Reliance Iron & Engine Co. (Gasoline Engines)
*Standard Electric Works (Vacuum Cleaners, Vibrators, etc.)
†§Standard Foundry Co. (Castings)
*Tecktonius, E. C. Mfg. Co. (Hoop, Lugs, Bolster Springs, etc.)
*Wabers, H. H. Mfg. Co. (Gasolnie Engines, Corn & Potato Planters, etc.)
*†Wood, Lyman Mfg. Co. (Stove Repairs, Saddlery, Hardware, etc.)
RANDOLPH—*Nutting, C. A.
*Smith, Geo. B.
RHINELANDER—*†Rhinelander Iron Co.
RICE LAKE—*†§Peters, J. H. & E. A.
SCHLEISINGERVILLE—†Rosche, John
SHEBOYGAN—*Diehl Novelty Co. (Hardware Novelties)
*Garton Toy Co. (Iron Toys, etc.)
*†Globe Fdry. & Machine Co. (Feed Cutters, Feed Mills, Saw Machines, etc.)
*†Jenkins Machine Co. (Chair & Woodworking Machinery, etc.)
*†Kohler, J. M. Sons Co. (Cast Iron Enamel, Sanitary Ware & Castings)
*Myers Machine Co. (Woodworking Machinery)
*Optenberg Iron Wks. Co. (Radial Drills, etc.)
*Porcelain Enameling Assn. of Amercia (Cast Iron Enameled Hollow Ware)
*†Vollrath, J. J. Mfg. Co. (Enameled Cast Iron Hollow Ware)
SHEBOYGAN FALLS — *Falls Machine Co. (Woodworking Machinery, etc.)
SOUTH MILWAUKEE—†Badger Malleable & Mfg. Co. (Malleable Iron Founders)
*†§Bucyrus Co. (Steam Shovels & Dredges, etc.)
*†§Stowell Mfg. & Fdry. Co. (Grey Iron Castings, Door Hangers & Hardware Specialties, etc.)
SPARTA—*†Sparta Iron Works Co.
SPRING VALLEY—†Kemke, Ferdinand
STEVENS POINT—*†Comee Metallic Packing Co. (Metallic Packing, etc.)
*Sustins, F. A.
STOUGHTON—†Mandt Wagon Co.
*†Stoughton Wagon Co. (Plows, etc.)
STURGEON BAY—*Hunsader, John Machine
*†§Ives, Wallace Co.
SUPERIOR—*†Duplex Mfg. Co.) ("Windmills, Engines, etc.)
*†Evered Fdry. & Machine Co.
*Northwestern Boiler Works
*Northwestern Machine Works
*†§Superior Iron Works (Engines & Dredging Machinery, Iron & Brass Castings), Swinging Engines, etc.)
*Superior Ship Building Co. (Ships, Marine
†Thomas & Almquist Engines, etc.)
†Trisko Foundry Co.
†U. S. Cast Iron Pipe & Foundry Co. (See New York City)
TOMAHAWK—*†§Tomahawk Iron Works
TWO RIVERS—*†Becker Mfg. Co.
*Kahlenberg Bros. (Engines, etc.)
WALDO—Timmer & Hein Mfg. Co.
WASHBURN—*Steinert, R. & Co.
WATERTOWN—*Biefeld, O. & Co.
*†§Brandt-Dent Co. (Gas Fixtures, etc.)
*†Dornfeldt-Kunert Co.
WAUKESHA—†Blair Bros.
*Ladewig Stock Co.
*†Modern Steel Structural Co. (Cranes & Steel Structures)
*†Waukesha Malleable Iron Co.
*Waukesha Motor Co. (Auto Motors)
WAUPACA—*Hanson, A. M.
†Rosche & Suks
WAUPUN—*†§Althouse-Wheeler Co. (Windmills & Pumps, etc.)
WAUSAU—*†§Murray, D. J. Mfg. Co. (Saw Mill Machinery)
*†Wauseau Foundry & Machine Works
*Wauseau Iron Works
WEST ALLIS—*†§Allis-Chalmers Co. (Corliss Engines, Mining Mach'y, etc.)
†Gerlinger Steel Casting Co. (Steel Castings, etc.)
*†§Prescott, F. M. Steam Pump Co. (Pumping Machinery, etc.)
*†West Allis Malleable Iron & Chain Belt Co. (Chain Belt & Malleable Iron Castings)
WEST BEND—*†Gehl Bros. Mfg. Co. (Agrl. Implts., Grey Iron Castings, etc.)
WEYAUWEGA—*Haire, James A.
WHITEWATER — *Whitewater Machine Co. (Agrl. Implts., etc.)
YORKVILLE—*Gilmore, Howard S.

## 7301—Machinists' Tools & Supplies (Dealers)

(See also Mill & Factory Supplies)
(For Manufacturers of Machinists' Tools & Supplies, see the Specific Article Required)

### CALIFORNIA.

LOS ANGELES—Wigmore, Jno. & Sons Co.
SAN FRANCISCO—Alexander-Yost Co. (Tools)
Compressed Air Machinery Co., 24 1st
Harron, Richard & McCone, 21 Fremont
Henshaw, Bulkley & Co.
Hicks, Jas. L., 667 Mission
Pacific Tool & Supply Co., 105 1st
Taber-Bigelow Co. (Inc.), 113 Main
Tatum & Bowen, 34 Fremont

### COLORADO.

DENVER—Hendrie & Botthoff Mfg. & Supply
Scott Supply & Machinery Co. Co.

### CONNECTICUT.

BRIDGEPORT—Hawley, T. & Co.
Lyon & Grumman
Manson Co.

### DISTRICT OF COLUMBIA.

WASHINGTON — Lambie, Jas. B. Co. (Inc.) (Fine Tools, etc.), 1415 New York av, N W

### GEORGIA.

AUGUSTA—Lombard Iron Works & Supply Co

### ILLINOIS.

BLOOMINGTON—Read, G. H. & Bro.
CAIRO—Reed, J. B.
CHICAGO—Banner, Thos. B., 308 W Kinzie
Besley, Chas. H. & Co., 124 N Clinton
CARPENTER, GEO. B. & CO., 202 S Water. (See adv. index, end of book)
Chicago Machine Tool Co. (Machine Tools & Machinery), 127 N Canal
Crerar, Adams & Co., 11 5th av
Harris, Samuel & Co., 114 N Clinton
Henion & Hubell, 223 N Jefferson
Hill, Clarke & Co., 125 N Canal
Hodge & Homer Co., 549 W Madison
Kerr, J. W. Co., 31 N Jefferson
McLeod Co., 73 Fulton
Machinists' Supply Co., 17 N Jefferson

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Manning, Maxwell & Moore, 111 N Canal
**Marshall & Huschart Machinery Co., 62 S Canal**
**Scully Steel & Iron Co., Halsted & Wayman Sta.**
Seehausen, Wehrs & Co., 43 Franklin
Walsh, Jno. F., 437 W Lake
Whitehead, Jos. H. Co., 12 N Jefferson
**JOLIET**—Barrett Hardware Co.

## MAINE.

**PORTLAND**—Edwards & Walker Co. (Tools, etc.)

## MARYLAND.

**BALTIMORE**—Adt, Jno. B., 332 N Holliday
**Aumen Machinery & Supply Co., 324 N Holliday**
Basshor, T. C. Co., 28 Light
Brown, Jno. & Sons, 722 E Pratt
Carey Machinery & Supply Co.
Coggins & Owens, 19 S Charles
Crook-Horner Co., 17 E Pratt
Cuyler & Mohler, 611 William
Spedden Supply Co., 913 S B'way
Wallace & Gale
Zies, Chas. & Sons
**CUMBERLAND**—McKaig, Merwin

## MASSACHUSETTS.

**BOSTON**—Brown Wales Co. (Supplies), 83 Purchase
Chandler & Farquhar Co., 36 Federal
Chase Parker & Co., 81 Pearl
Cutter Wood Supply Co., 68 Pearl
Dodge, Haley & Co., 212 High
Fitts, Frank E. Mfg. & Supply Co., 88 Pur-
**Fitz, Dana & Co., 110 North** chase
Hill, Clarke & Co.
Jewett, J. D. Co. (Hardware, Tools & Supplies), 168 Wash'n
Manning, Maxwell & Moore, Franklin &
**Rawles-Cobb Co., 74 Pearl** Oliver
Wilkinson, A. J. & Co. (Hardware, Tools & Supplies), 180 Wash'n

## MICHIGAN.

**BAY CITY**—Jennison Hdw. Co.
**DETROIT**—Bush-Campbell Co.
Motch & Merryweather Machinery Co. (Machinery & Tools), 707 Lakeside av
Rayl, T. B. Co., 112 Woodward av
Strelinger, Chas. A. Co., 98 Bates
Woodbridge & Coelius Mach. Co., 127 Brush
Wormer, C. C. Machinery Co.

## MINNESOTA.

MINNEAPOLIS—Morison, W. K. & Co.
**Northern Machinery Co., 217 S 3d**
**ST. PAUL**—Robinson & Cary Co., 4th & Wacouta

## MISSOURI.

KANSAS CITY—Brunner, H. J. Hardware Co.,
English Tool & Supply Co. 910 Walnut
Equipment Co.
Great Western Mfg. Co.
Lewis Supply Co.
**ST. LOUIS**—Bowman, Albert B., 720 N 2d
**Cahill, Swift Mfg. Co., 20 S 12th**
**Colcord, W. R. Machinery Co., 821 N 2d**
**Crane Co. (Est. 1855). (See adv. index & branch offices, end of book)**
**FAIRBANKS, MORSE & CO. (See adv. index, end of book)**
**Handlan-Buck Mfg. Co., 212 N 3d**
**Johnson, Wm. C. & Sons, 513 N 2d**
**Linley, E. H. Supply Co., 714 N 2d**
Manning, Maxwell & Moore, 305 Frisco bldg
**Nelson, N. O. Mfg. Co.**
**Rumsey, L. M. Mfg. Co.**
**Rumsey & Sikemeier Co., 1900 Pine**
Simmons Hardware Co.
St. Louis Machinists' Supply Co., 421 Franklin av
Sligo Iron Store Co., 945 N 3rd
**Western Iron & Supply Co., 938 N 2d**

## NEW JERSEY.

**HARRISON**—**WALSH'S SONS & CO. (See adv. index, end of book)**
**NEWARK**—Gray, R., Jr., 190 Market
Macknet & Doremus, 796 Broad
Roe & Conover, 200 Market
**PASSAIC**—New Jersey Engineering & Sup-
**PATERSON**—Mills, H. W. & Co. ply Co.
Myers, Geo. A. & Co.
**PATERSON**—Quinn Bros.

## NEW YORK.

**BUFFALO**—Beals & Co., 44 Terrace
Buffalo Wholesale Hardware Co., Wash'n
Fairbanks Co., 145 Seneca & S Division
Frasse, Peter A. & Co., 50 Exchange
Manning, Maxwell & Moore, White bldg
Root, Neal & Co., 178 Main
Ruckel, J. H. & Son, 81 Main
Walbridge & Co., 392 Main
Weed & Co., 292 Main

### Borough of Brooklyn.

**BROOKLYN**—Metropolitan Supply Exchange & Mfg. Co., 44 Court
Purvis & Shelton, 241 Plymouth
Wilfert, Jno. & Co., 490 Bushwick av

### Boroughs of Manhattan & Bronx.

**NEW YORK**—**BEGGS, JAMES & CO.,** Liberty & Church
Behringer, Edw. A., 104 Reade
Chatwin, Alfred, Supply Co., 149 Centre
Dixon, Wm. (Inc.) (Fine Tools & Supplies of All Kinds), 39 John
Donegan & Swift, 6 Murray
Du Bois, F. N. & Co., 245 9th av
Eustace, Edw. C., 54 Center
Fairbanks Co., 186 Lafayette
Foster, Walter H., 50 Church
Fox Bros. & Co., 126 Lafayette
Frasse Co., 30 Church
**FRASSE, PETER A. & CO., Canal & Sullivan.** (See adv. index, end of book)
**FREVERT MACHINERY CO., 18 Dey.** (See adv. index, end of book)
Garvin Machine Co., 137 Varick
**HAMMACHER, SCHLEMMER & Co., 133 4th av.** (See adv. index, end of book)
Hussey, E. J. & Co., 80 John
Hussey, McCann & Co., 87 Warren
Knox & Bro., 96 John
Leonard & McCoy, 161 Wash'n
McCabe, J. J., 30 Church
Manning, Maxwell & Moore, 85 Liberty
Montgomery & Co., 105 Fulton
Niles-Bement-Pond Co., 111 B'way
Patterson, Gottfried & Hunter (Ltd.), 211 Centre
**PRENTISS TOOL & SUPPLY CO., 115 Liberty.** (See adv. index, end of book)
Reichhelm, E. P. & Co., (Tools, Files & Supplies), 24 John
**ROGERS, HENRY A. CO., 19 John.** (See adv. index, end of book)
Rossiter, Macgovern Co. (Electrical Machinery), 90 West
Schuchardt & Schutte, (Exporters & Importers), 90 West
**STRONG MACHINERY & SUPPLY Co., 48 Franklin.** (See adv. index, end of book)
Tucker, Cummings H., Jr., 75 Murray
White-Van Glahn Co., Chatham sq.

**(End of New York City)**

**SYRACUSE**—Syracuse Supply Co.
Wood, C. H. Company
**UTICA**—Dent, M. F., 81 Washington

## NORTH CAROLINA.

**CHARLOTTE**—Charlotte Supply Co.
Textile Mill Supply Co.

## OHIO.

**CINCINNATI**—Boebinger Hardware Co., 315 E Pearl
Economy Machinery Co. (J. H. Flynn, Prop.) (New & Second Hand Lathes, Planers, Drills, etc.), 428 E Pearl
Kinsey, E. A. Co. (Drills, Lathes, Shapers, Grinders, Boring & Milling Machines), 331 W. 4th
Motch & Merryweather Machinery Co (Machinery & Tools)
Pickering Hardware Co., 5th & Main
**Queen City Supply Co., 201 W Pearl**
**CLEVELAND**—Bingham, W. Co., 1433 W. 9th
Cleveland Tool & Supply Co.
Lockwood-Luetkemeyer-Henry Co.
Manning, Maxwell & Moore, Williamson bldg
Motch & Merryweather Machinery Co. (Machinery & Tools)
**PATTISON, W. M. SUPPLY CO., 197-211 St. Clair av.** (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N. W.** (See adv. index, end of book)
White, Frank C. Tool & Supply Co.
**DAYTON**—Larkin, M. D. Supply Co.
Patterson Tool & Supply Co.
**HAMILTON**—Hamilton Supply Co. (Fine Tools, etc.)
**SPRINGFIELD**—Springfield Hardware Co.

## OREGON.

**PORTLAND**—Avery & Co.

## PENNSYLVANIA.

**CHESTER**—Galey Hardware Co.
**PHILADELPHIA**—Billany & Cochrane, 527 Commerce
Billington, Jas. H. Co., 113 Chestnut
Bond, Chas., 520 Arch
Bullock, Chas. K., 136 Ridge av
**Donlevy, Frank L. & Co. (Tools, etc.), 833 Arch**
**Field's, Chas. J. Sons (Tools, etc.), 633 Market**
Fraser, E. L., 622 Arch
Girard Machine & Tool Co., 491 N 3d
**Haddock, Chas., 343 N 3d**
Hankey, A. & Co., 1213 Race
Hill-Clark Co., Phila. Bourse
Insley, John E., 13 N 6th
Jones & Rogers, 327 New
Lovegrove & Co. (Machines & Tools), 145 N 2d
McFadden, Jno. W., 40 N 4th
Maddock & Co., 40 N 6th
Manning, Maxwell & Moore
**Pennsylvania Machinery & Supply Co.**
Powell, Clouds & Co., 602 Arch
Rainear, C. J., & Co., 518 Arch
Sees & Faber, 2008 N Front
Seyfert's, L. F. Sons, 437 N 3d
**Shipley, W. E., Phila. Bourse**
Standard Supply & Equipment Co., 1714 Market
**Steel, Percy R., 609 Commerce**
**Toomey, Frank, 127 N 3d**
**Vance, Jas. M. & Co., 211 Market**
Williamson & Cassedy, 526 Market
**Woodfield, Jos., 307 S 2nd**
**PITTSBURG**—Baird Machinery Co. (All Kinds of Iron & Wood Working Machine Tools,
Frick & Lindsay Co. Hoists, Drills, etc.)
Logan-Gregg Hardware Co., 125 7th
Manning, Maxwell & Moore, Park bldg
Pittsburg Supply Co., 226 1st av
**PRENTISS TOOL & SUPPLY CO.,** 120 1st av. (See adv. index, end of book)
Smith, Chas. G. Co., 347 5th av
Somers, Fitlar & Todd
Turner, Chas. A. (Fine Tools, etc.)
**READING**—Bright & Co. (Tools, etc.)
**SCRANTON**—Scranton Supply & Mach'y Co.
**WILKES-BARRE**—Eastern Penna. Supply Co.
**WILLIAMSPORT**—Darling Pump & Mfg. Co.

## RHODE ISLAND.

**PROVIDENCE**—American Supply Co.
Brown & Sharp Mfg. Co.
Thomas & Lowe Machinery Co.

## NORTH CAROLINA.

**GREENVILLE**—Carolina Supply Co.

## TENNESSEE.

**CHATTANOOGA**—James & Co.

## VIRGINIA.

**RICHMOND**—Bargamin, G. & A. Co.
McGraw, Jas., 1440 E Main
Southern Railway Supply Co., 9th c Cary

## WASHINGTON.

**SEATTLE**—Holley, Mason, Marks & Co.

## WEST VIRGINIA.

**CHARLESTON**—Capitol City Supply Co.

## WISCONSIN.

**MILWAUKEE**—Packard, O. L. Machinery Co.,
**Western Iron Stores Co. 133 W Water**
Yale, H. P. & Co.

## 7302—Mackintoshes

**La Crosse Rubber Mills Co., La Crosse, Wis.**

## 7303—Magazines (Storage & Portable Iron Sidewalk)

**du PONT, E. I. de NEMOURS POW-**der Co., Wilmington, Del. (See adv. index & branch offices, end of book)

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## 7304— Magnesite

**AMERICAN REFRACTORIES CO.** (Calcined, Dead Burned & Grain), 125 Clark, Chicago, Ill. (See adv. index, end of book)
Federal Refractories Co. (Calcinated), Rockefeller bldg, Cleveland, O.
**HARBISON-WALKER REFRACTORIES Co.** (Crude Calcined, Dead Burned), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Hammill & Gillespie (Crude), 240 Front, New York
Sholes, Chas. E. Co. (Lump & Powdered), 164 Front, New York
Whittaker, W. H. (Calcined Lump & Powdered), 245 Front, New York

## 7305— Magneto Parts

**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

## Magnetos (Sparking)

(See Igniters, Gas & Gasoline Engine)

## 7306—Magnetos (Telephone)

Sumter Telephone Mfg. Co., Sumter, S. C.

## 7307—Magnetos (Testing)

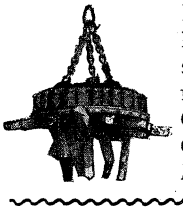
Holtzer-Cabot Electric Co., Brookline, Mass.

## 7308— Magnets (Electro)

Acme Wire Co. ("Varley Duplex"), New Haven, Conn.
American Electrical Works, Phillipsdale, R. I.
Ansonia Electrical Co., Ansonia, Conn.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.** (Lifting), Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Glaenzer & Co. (Imported), 43 W 33d, New York
Manhattan Elec. Sup. Co., 17 Park pl., N. Y.
Splitdorf, Chas. F., 261 Walton av., New York
Western Electric Co., Chicago, Ill.

## 7309— Magnets (Lifting)

Browning Engineering Co., Cleveland, O.
**CUTLER-HAMMER CLUTCH CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)


Lifting Magnets for handling pig-iron, scrap, etc. Booklet free on request.
CUTLER-HAMMER CLUTCH CO., Milwaukee, Wis.

**ELECTRIC CONTROLLER & MFG. CO.** Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 7310—Magnets (Permanent)

Esterline Co. (Inc.), Lafayette, Ind.
Boker, Herman & Co. (Imported), 103 Duane, New York

## 7311—Magnets (Platers' Tank)

Hanson & Van Winkle Co., Newark, N. J.
Meaker Co., 218 N Elizabeth, Chicago, Ill.

## 7312— Magnets (Solenoid)

**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Ideal Electric & Mfg. Co. ("Ironclad"), Mansfield, O.

## 7313— Magnifiers

Bausch & Lomb Optical Co., Rochester, N. Y.

## 7314—Mail Catchers (Railway)

Columbian Mail Crane Co. ("Columbian" Steel), Columbus, O.
Taylor & Boggis Foundry Co., Cleveland, O.

## 7315—Mail Chutes for Buildings

Cutler Mail Chute Co., Rochester, N. Y.
U. S. Mail Chute Equipment Co. ("Security"), 1315 Chestnut, St. Louis, Mo.

## 7316— Mallets (Calking)

Mack & Co., Rochester, N. Y.
Union Hardware Co., Torrington, Conn.
White, L. & I. J. Co., Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 7317—Mallets (Fibre Head)

Stearns, E. C. & Co., Syracuse, N. Y.

## 7318—Mallets (Lignumvitae)

Seib Bros., Jersey City, N. J.

## 7319— Mallets (Rawhide)

Brockton Mallet Co., Brockton, Mass.
Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.
Greene, Tweed & Co. ("Colvin"), 109 Duane New York
Holbrook Rawhide Co., Providence, R. I.

## 7320— Mallets (Rubber)

**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Manhattan Rubber Co., 18 Vesey, New York
Morgan & Wright (Inc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
New York Belting & Packing Co., 91 Chambers, New York
**NEW YORK RUBBER CO., Reade & Church,** New York. (See adv. index, end of book)
Peerless Rubber Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO.** (With Hickory Handles), Jeannette, Pa. (See adv. index & branch offices, end of book)
**Quaker City Rubber Co.,** 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 7321— Mallets (Wooden)

American Woodworking Co., 19 Warren, New York
**BERNZ, OTTO, 21 Ashland av, Newark,** N. J. (See adv index end of book)
Boston & Lockport Lock Co., Boston, Mass.
Brighton Specialty Co. (Heel), Manchester, N. H.
Delphos Mfg. Co. (Tinners', etc.), Delphos, O.
**Hardware & Woodenware Mfg. Co., 693 Broadway, New York**
**Hellenberg & Son (For Stone Cutters, Carpenters, Tinners, etc.), Coldwater, Mich.**
**Osborne, C. S. & Co. (Dogwood & Lignumvite), Harrison, N. J.**
Piqua Handle & Mfg. Co., Piqua, O.
**Redlich Mfg. Co., 637 W Oak, Chicago, Ill.**
**Sandusky Tool Co., Sandusky, O.**
**Sommer's, John Faucet Co., 355 Central av, Newark, N. J.**
Stanley Rule & Level Co., New Britain, Conn.
Union Hardware Co., Torrington, Conn.
Williams & Marvin Mfg. Co., Deep River, Conn.

## 7322—Malt & Ice House Builders

American Bridge Co., 30 Church, New York
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**Phoenix Iron Co., 410 Walnut, Phila, Pa.**
**Saladin Pneumatic Malting Construction Co., 24 N Clinton, Chicago, Ill.**
**SCHREIBER, L. & SONS CO., 8th & Eggleston av,** Cincinnati, O. (See adv. index & branch offices, end of book)

## 7323— Mandrels

Adams Co., Dubuque, Ia.
American Foundry & Mfg. Co., St. Louis, Mo.
Block-Pollak Iron Co., Carthage, Cincinnati, O.
**CLEVELAND TWIST DRILL CO., Lakeside av & 49th,** Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO., Detroit, Mich.** (See adv. index, end of book)
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
LeCount, Wm. G., So. Norwalk, Conn.
**NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y.** (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Pratt & Whitney Co., Hartford, Conn.
**Putnam Machine Co., Fitchburg, Mass.**
Rogers, Jno. M. Works, Gloucester City, N. J.
Smith, H. B. Machine Co., Smithville, N. J.
**STANDARD TOOL CO., 6900 Central, Cleveland, O.** (See adv. index & branch

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**CLEVELAND, OHIO**

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Stauffer, Geo. E., E Stroudsburg, Pa.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

## Mandrels (Blacksmiths')

(See Mandrels or Cones, Blacksmiths')

## 7324—Mandrels (Expanding)

Le Count, Wm. G., South Norwalk, Conn.
McCroskey Reamer Co. (Inc.), Meadville, Pa.
Nicholson, W. H. & Co. (Lathe), Wilkes-Barre, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Western Tool & Mfg. Co. ("Champion"), Springfield, O.

## 7325—Mandrels (Hardened & Ground)

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central,** Cleveland, O. (See adv. index & branch offices, end of book)

## 7326—Mandrels or Cones (Blacksmiths')

Illinois Iron & Bolt Co., Carpenterville, Ill.
Southern Skein & Foundry Co., Chattanooga, Tenn.
Swett, A. L. Iron Works, Medina, N. Y.

## 7327— Mandrels (Saw)

American Woodworking Mach'y Co., Rochester, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Atlas Machine Co., Nashville, Tenn.
Cordesman Machine Co., Cincinnati, Ohio.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co., Beaver Falls, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fay, J. A. & Egan Co., Front & John, Cincinnati, O.
Hobbs Mfg. Co., Worcester, Mass.
Hoe, R. & Co., 506 Grand, New York
Lippert, E. T., Saw Mfg. Co., Millvale, Pa.
National Saw Co., Newark, N. J.
Ober Mfg. Co., Chagrin Falls, O.
Reed, Jos. B., Cairo, Ill.
Smith, H. B. Machine Co., Smithville, N. J.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Southern Saw Works (Circular Saw), Atlanta, Ga.
Standish, A., 120 W Spring, Columbus, O.
Union Iron Works, Bangor, Me.
Wheland Machine Works, Chattanooga, Tenn.

## 7328— Mandrels (Taper)

Brown & Sharpe Mfg. Co., Providence, R. I.
Comstock, Geo. S., Mechanisburg, Pa.
**MORSE TWIST DRILL & MACHINE** Co. (with Expanding Sleeve), New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
**STANDARD TOOL CO., 6900 Central,** Cleveland, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 7329— Manganese

Cooper, Chas. & Co., 194 Worth, New York
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Baker & Adamson Chemical Co. (Salts), Easton, Pa.
Behrend, F. (Chloride), 54 Front, New York
Billings-Clapp Co. (Salts), 178 Freeport, Boston, Mass.
Chrystal, Chas. B., 116 John, New York
Dunkel, S. P. & Son, Baltimore, Md.
Ferguson Bros., 109 Chestnut, Phila., Pa.
Feuchtwanger & Co. (Salts), 54 Fulton, New York
Goldschmidt Thermit Co., 90 West, New York
Harshaw, Fuller & Goodwin Co., Electric bldg, Cleveland, O.
Klipstein, A. & Co., 82 Beaver, New York
Lamson & Bro., Jno. S. (Imptrs. & Dlrs.), 84 William, New York
Lee, James & Co., 76 William, New York
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
McKesson & Robbins, 91 Fulton, New York
Mallinckrodt Chemical Works (Salts), St. Louis, Mo.
National Paint & Manganese Co. (Miners & Grinders), Lynchburg, Va.
Pennsylvania Salt Mfg. Co. (Salt), Philadelphia, Pa.
Powers-Weightman Rosengarten Co. (Salts), Philadelphia, Pa.
Roessler & Hasslacher Chemical Co. (Chloride, Oxide, Sulphate, etc.), 100 William, New York
Samuel, Frank (Firm of), 1502 Market, Phila., Pa.
**SCHULE, F. H. CO. (Borate of, Resinate & Oxide of),** 114 Liberty, New York. (See adv. index, end of book)
Southern Manganese & Steel Co., Atlanta, Ga.
Staleys Creek Manganese & Iron Co., Marion, Va.
Thomsen Chemical Co. (Carbonate), Baltimore, Md.
Tennant, C. Sons & Co., 76 William, New York
Wiarda, Jno. C. & Co. (Oxide Salts), 259 Greenpoint av, Brooklyn, N. Y.
Wilckes, J. Co., 135 William, New York

## 7330—Manganese Bronze (Parsons')

Cramp, Wm. & Sons Ship & Engine Building Co., Phila., Pa.

## Manganese Copper

(See Copper, Manganese)

## 7331—Manganese Steel Track Work

Barbour-Stockwell Co., Cambridge, Mass.
Cleveland Frog & Crossing Co. ("C. F. C. & Co."), Cleveland, O.
Falk Co., Milwaukee, Wis.
Pennsylvania Steel Co. ("Manard"), 1421 Chestnut, Phila., Pa.
Ramapo Iron Works, Hillburn, N. Y.
Wharton, Wm. Jr. & Co. (Inc.), 25th & Washington, Phila., Pa.

## Mangles (Ironing)

(See Laundry Machinery)

## 7332—Manheads, Yokes Etc. (Pressed Steel)

Central Iron & Steel Co., Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Lukens Iron & Steel Co., Coatesville, Pa.
Worth Bros. Co., Coatesville, Pa.

## Manholes (Flanged)

(See Boiler Flue Holes & Manholes, Flanged)

## 7333— Manicure Sets

Havell Mfg. Co., Newark, N. J.
Ross, Jos. Jr. & Co., Irvington, N. J.
Schnefel Bros., Newark, N. J.
Sperry & Alexander Co., 20 Warren, New York

## 7333a—Manifolds, Water Pipe, Etc., for Gas Engines

**WHITLOCK COIL PIPE CO., Hartford,** Conn. (See adv. index, end of book)

## 7334— Manometers

Greiner, Emil Co., 45 Cliff, New York
Simplex Valve & Meter Co., 112 N. Broad, Phila., Pa.

## 7335—Mantel, Grate & Tile Dealers

**FRENCH, S. H. & CO., 4th & Callowhill,** Phila., Pa. (See adv. index, end of book)
**JACKSON, EDWIN A. & BRO. (The** "Jackson" Ventilating Grate, Mantels, Tiles, Fireplaces, etc.), 50 Beekman, New York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)

## 7336— Mantels (Brick)

Carnegie Brick & Pottery Co. (Or Tile), San Francisco, Cal.
Fallston Fire Clay Co., Fallston, Pa.
Fiske & Company (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York
Los Angeles Pressed Brick Co. (Or Tile), Los Angeles, Cal.
Orchard Knob Clay Works Co., Ironton, O.
Phila. & Boston Face Brick Co., Boston, Mass.
Sibley-Menge Press Brick Co., Birmingham, Ala.
Steiger Terra Cotta & Pottery Wks. (or Tile), San Francisco, Cal.
Washington Brick, Lime & Sewer Pipe Co., Spokane, Wash.

## 7337— Mantels (Faience)

Grueby Faience Co., E 1st & K, Boston, Mass.
Hartford Faience Co., Hartford, Conn.
Zanesville Tile Co., Zanesville, O.

## 7338—Mantels (Iron, Electro Bronze Plated)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

## Mantels (Marble)

(See Marble Interior Work)

## 7339—Mantels (Marbleized Iron)

Bridgeford & Co., Louisville, Ky.
Fischer-Leaf Co., 1438 High, Louisville, Ky.
Kentucky Stove Co., Louisville, Ky.

## 7340—Mantels (Marbleized Slate)

Allen's, S. Sons, Fair Haven, Vt.
Bangor Crescent Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Criterion Slate Co., Hydeville, Vt.
Excelsior Slate Co., Pen Argyle, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hinchy, Patrick, Hydeville, Vt.
Keenan Structural Slate Co., Bangor, Pa.
Taylor, Wm. M. Mantel & Grate Co., Inc., Columbus, O.

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## 7340a— Mantels (Metal)

Jamestown Window Screen Co. (Radiating), Jamestown, N. Y.

## 7341— Mantels (Mosaic)

Currier, E. Bradley Co., 119 W 22d, New York
Doyle-Stoltzenberg Co., 51 Barclay, New York
Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Hawes & Dodd, 610 W Adams, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
Pellarin & Co., 82 Greenwich av, New York
Sharpless & Watts Co., 1520 Sansom, Phila., Pa.
Tiffany Studios, 347 Madison av, New York
Traitel Bros. & Co., 44 E 19th, New York
Von Gerichten Art Glass Co., Columbus, O.
Zanesville Tile Co., Zanesville, O.

## 7342— Mantel (Onyx)

Fisher, Robert C. Co., E 139th & Locust av, New York
Klaber, S. & Co., 126 W 34th, New York
McGratty & Sons, 313 Butler, Brooklyn, N.Y.
Theis, Peter Sons, c 1st av & 37th, New York

## 7343— Mantels (Slate)

(See also Slate Mill Stock; also Mantels, Marbleized Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Auld & Conger Co., Cleveland, O.
Bangor Crescent Slate Co., Bangor, Pa.
Chicago Slate & Mantel Co., 232 S Clinton, Chicago, Ill.
Columbia Bangor Slate Co., Bangor, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hahn, Granville, Walnutport, Pa.
Hall-Kline Co., 1927 Market, Phila., Pa.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Hinchey, Patrick, Hydeville, Vt.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Keenan Structural Slate Co., Bangor, Pa.
Monson Maine State Co., 113 Devonshire, Boston, Mass.
North Bangor Slate Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Taylor, Wm. M. Mantel & Grate Co., Inc., Columbus, O.
Williams & Schmidt, Granville, N. Y.

## Mantels (Terra Cotta)

(See Terra Cotta, Architectural)

## 7344— Mantels (Wood)

Alcott-Ross Co., 2917 N Broad, Phila., Pa.
Allen Mfg. Co. (Wholesale Mfrs.), Shreveport, La.
American Sash & Door Co. (Wholesale Mfrs.), Kansas City, Mo.
American Woodwork Mfg. Co., Evansville, Ind.
Atkin, C. B., Co. (Wholesale Mfrs.), Knoxville, Tenn.
Bennett, E. D. & Co., San Francisco, Cal.
Bering Mfg. Co. (Wholesale Mfrs.), Houston, Tex.
Bossert, Louis & Son, Grand st & Newtown Creek, Brooklyn, N. Y.
Broadbent, Felippe A. Mantel Co., Baltimore, Md.
Brockway-Smith Corpn. (Wholesale Mfrs.). Boston, Mass.
Buffalo Mantel Mfg. Co., Buffalo, N. Y.
Burritt, A. W. Co., Bridgeport, Conn.
Caroline Mfg. Co., Charlotte, N. C.
Capitol Lumber Co., Indianapolis, Ind.
Columbia Mantel Co. (Wholesale Mfrs.), Louisville, Ky.
Conway Veneered Door & Mantel Co., Milwaukee, Wis.
Cumberland Sash & Door Co. (Wholesale Mfrs.), Cumberland, Md.
Currier, E. Bradley Co., 119 W 23d, New York
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Ia.
Curtis, Towle & Paine Co. (Wholesale Mfrs.) Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Curtiss, A. Judson, Kalamazoo, Mich.
Dame Mantel Co. (Wholesale Mfrs.), Harriman, Tenn
Dawson Bros. (Wholesale Mfrs.), 523 N Halsted, Chicago, Ill.
Dawson Bros. (Wholesale Mfrs.), 197 N Halstead, Chicago, Ill.
Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.
Dixie Mantel & Mfg. Co. (Wholesale Mfrs.), Maryville, Tenn.
East Tennessee Woodworking Co., Morristown, Tenn.
Ehman, C. & Co. (Inc.) (Wholesale Mfrs.), Decatur, Ill.
Emanuel, L. & E. (Inc.), 144 12th, San Francisco, Cal.
Enterprise Plaining Mill Co., Hillsboro, O.
Fletcher Mfg. Co. (Wholesale Mfrs.), Dixon, Ill.
Forest City Furniture Co. (Wholesale Mfrs.), Rockford, Ill.
Foster-Munger Co. (Wholesale Mfrs.), W 20th & S Sagamon, Chicago, Ill.
Fox Bros. & Co., Detroit, Mich.
Gauger, Jno. A. & Co. (Wholesale Mfrs.), W 22d & Lafin, Chicago, Ill.
Gould Mfg. Co. (Wholesale Mfrs.), Oshkosh, Wis.
Grand Rapids Clock & Mantel Co., Grand Rapids, Mich.
Hegan Mantel Co., Louisville, Ky.
Hyde-Murphy Co., Ridgeway, Pa.
Ironton Wood Mantel Co., Ironton, O.
Irving & Casson, 150 Boylston, Boston, Mass.
**JACKSON, EDWIN A. & BRO., 50** Beekman, New York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Jamestown Mantel Co., Falconer, N. Y.
Kertscher & Co., Elmira, N. Y.
Kilian Bros., 656 W 30th, New York
King Mantel Co., Knoxville, Tenn.
Knoxville Furniture Co. (Wholesale Mfrs.), Knoxville, Tenn.
Leclair Mfg. Co., Edwardsville, Ill.
Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.
McClamroch Mantel Co., Greensboro, N. C.
Manhattan Mantel Co., 145 Av D, New York
Matthews Bros. Mfg. Co., Milwaukee, Wis.
Messer & Isenberg, Newark, N. J.
Mitchell, Robert Furniture Co., Cincinnati, O.
Moline Furniture Works, Moline, Ill.
Moore, Geo., & Sons, Nashville, Tenn.
Morgan Co. (Wholesale Mfrs.), Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
Moss, R. L. Mfg. Co. (Wholesale Mfrs.), Athens, Ga.
Mount Airy Mantel & Table Co., Mount Airy, N. C.
Munson & Johnson, Jamestown, N. Y.
Muscatine Sash & Door Co. (Wholesale Mfrs.) Muscatine, Ia.
Nalle & Co. (Hard & Soft Wood Wholesale Mfrs.), Austin, Tex.
National Lumber Co., McKeesport, Pa.
Newark Mantel & Furniture Co., Newark, N. J.
Ornamental Woodworking Co., Springfield, Mass.
Ostendorf, W. H., 2417 N Broad, Phila., Pa.
Paine Furniture Co., 48 Canal, Boston, Mass.
Paine Lumber Co. (Wholesale Mfrs.), Oshkosh, Wis., & 1 Madison av, New York
Palmer-Fuller & Co. (Wholesale Mfrs.), Chicago, Ill.
Paulson, John P. Mfg. Co., Denver, Colo.
Peterson, Geo. L. Co. (Wholesale Mfrs.), 701 N Sangamon, Chicago, Ill.
Phillips & Buttorf Mfg. Co., Nashville, Tenn.
Peirce, W. E. & Co., Milford, N. H.
Pottier & Stymus Co., 375 Lex. av., New York
Quincy Show Case Works, Quincy, Ill.
Richmond Wood Working Co., Richmond, Va.
Riggs Cypress (Wholesale Mfrs.), Patterson, La.
Rigney, Thos. F., 1538 Market, San Francisco, Cal.
Roach & Musser Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa
Roberts, E. L. & Co. (Wholesale Mfrs.), W 22d & Union pl., Chicago, Ill.

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Rockford Mantel Co., Rockford, Ill.
Ross Mantel & Mfg. Co., Buffalo, N. Y.
Rummer, H. B., 367 W 11th, New York
St. Croix Lumber Co., St. Paul, Minn.
Standard Mantel & Specialty Co. (Wholesale Mfrs.), Knoxville, Tenn.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book)
Steiner Mantel Co., Baltimore, Md.
Sterling Furniture Co., San Francisco, Cal.
Steul & Thuman, 278 Johnson, Buffalo, N. Y.
Stuhlmiller Mantel Works (Wholesale Mfrs.), Buffalo, N. Y.
Sunshine Mantel Co. (Wholesale Mfrs.), Chanute, Kan.
Taylor, Wm. M. Mantel & Grate Co. (Inc.). Columbus, O.
Tell City Desk Co., Tell City, Ind.
Thauwald, C. F. & Co., Cincinnati, O.
Thompson Mantel Mfg. Co., Atlanta, Ga.
Tionesta Mantel Mfg. Co., Tionesta, Pa.
Voss, A. F. Mantel Co. (Wholesale Mfrs.), Louisville, Ky.
Warren Woodworking Co., Belvidere, N. Y.
Western Sash & Door Co. (Wholesale Mfrs.), Kansas City, Mo.
White Mantel & Tile Co., Knoxville, Tenn.
White, Potter & Paige Mfg. Co., 415 Willoughby, Brooklyn, N. Y.
Willard, John S. Co., 4 E 30th, New York
Williams Mfg. Co., Portland, Me.
Zanesville Mantel & Furniture Co., Zanesville, O.

## 7345— Mantles (Arc)

General Gas Light Co. ("Humphrey" Single & Double Weave), Kalamazoo, Mich.

## 7346—Mantles (Incandescent Gas)

Aurora Illuminating & Mantle Co., Aurora, Ill.
Best Light Co., Canton, O.
Block Light Co., Youngstown, O.
Bradford Incandescent Light Co., Bradford, Pa.
Brilliant Gas Lamp Co., 42 State, Chicago, Ill.
Buffalo Gas Mantle Co., Buffalo, N. Y.
Columbus Incandescent Mantle Co., Columbus, Ohio
Cosmopolitan Electric Co., 150 Michigan av, Chicago, Ill.
Crane, Wm. M. Co., 16 W 32d, New York
Denver Gas Mantle Co., Denver, Colo.
Deutsch, Chas. (Plain and Fancy Webbings), 534 E 87th, New York
Duquesne Incandescent Light Co., Pittsburg, Pa.
Erie Gas Mantle Mfg. Co., Erie, Pa.
Freeman, Philip & Bros., 92 Bowery, New York
Harris Wood Fibre Mantle Co. ("Harris"), Cleveland, O.
Herz Lighting & Mfg. Co., St. Paul, Minn.
Hickory Gas Mantle Co., St. Paul, Minn.
Hipwell Mfg. Co., Pittsburg, Pa.
Illinois Mantle & Fixture Co., 160 Lake, Chicago, Ill.
Irby & Gilliland, Memphis, Tenn.
Lindsay Light Co., 116 E Indiana, Chicago, Ill.
Manufacturers' Supply Co., Cleveland, O.
Mica Mfg. Co., 152 Chambers, New York
Michigan Gas Mantle Co., Detroit, Mich.
Momand, S. S. Light Co. ("Arrow," "Brilliant," "Lion," "Sunlight"), 305 Columbus av, New York
New Process Mantle Co., 221 Chestnut, Phila., Pa.
Paragon Light Co., Buffalo, N. Y.
Peerless Light Co. ("Flexa"), 185 Lake, Chicago, Ill.
Perfected Mantle Co., Springfield, Mass.
Phoenix International Light Co., Milwaukee, Wis.
Ramsdell Inverted Gas Lamp Co., 1123 B'way, New York
Retherford Bros. Co., Muncie, Ind.
Smith, F. A., Rochester, N. Y.
Solar Light Co., 381 Broome, New York
Steward, D. M. Mfg. Co. ("Alva"), Chattanooga, Tenn.
Thorium Light & Chemical Co., Columbus, O.
Van Houten, E. J. S., 74 Park pl, New York
Wiederhold Light Co., Jersey City, N. J.
Welsbach Co. ("Majestic," "Shamrock," "Thenu," "Yusea," "Black Prince," "Metropolitan," "Clover," "Apollo," "Star," "Consul," "Aladin"), 1008 Filbert, Phila., Pa.
West Somerville Mfg. Co., West Somerville, Mass.
Wiederhold Light Co., 70 Cortlandt, New York

## 7347—Manual Training Outfits

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Oliver Machinery Co., Grand Rapids, Mich.

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## 7348—Maple Sugar & Syrup Makers' Supplies

Bell, C. S. Co., Hillsboro, O.
Champion Evaporator Co., Hudson, O.
Densmore Bros., Red Wing, Minn.
Grimm, G. H., Rutland, Vt.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Osborn, J. M. & L. A., Cleveland, O.

## 7348a— Marble (Alabaster)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7349— Marble Altars

**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Borgia Marble Works, 1133 B'way, New York
Christa Marble Co., 504 Lafayette av, Detroit, Mich.
Church Art Work Co., 151 E 18th, New York
Daprato Statuary Co., 766 W Adams, Chicago, Ill.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Empire City Marble Co., 250 11th av, New York
Evans Marble Co., 204 E York, Baltimore, Md.
Fisher, Robert C. Co., E 139th & Locust av, New York
Hall, Chas. E. & Co., E Cambridge, Mass.
Hilgartner Marble Co., Stockholm & Sharp, Baltimore, Md.
Ledig, Reinhold G., 821 Cherry, Phila., Pa.
Leland & Hall Co., 557 5th av, New York
Marthens, Chester N. Co., 748 First National Bank bldg, Chicago, Ill.
Pickel Marble & Granite Co., 1901 N Broadway, St. Louis, Mo.
Sibbel, Jos., 214 E 26th, New York
Standard Marble Works (John M. Mueller, Jr., Propr.), 706 W Front, Cincinnati, O.
Theis' Peter Sons, c 1st av & 37th, New York
Tiffany Studios, 347 Madison av, New York

## 7349a—Marble (Antique Fonce & Verdatre)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7349b—Marble (Arizona Opal)

**BOCKMANN & SHEPARD, 1265** B'way, New York. (See adv. index, end of book)

## 7349c—Marble (Arizona Paonazzo)

**BOCKMANN & SHEPARD, 1265** B'way, New York. (See adv. index, end of book)

## 7349d—Marble (Arizona Paonazzo, Heavy Veins)

**BOCKMANN & SHEPARD, 1265** B'way, New York. (See adv. index, end of book)

## 7350— Marble (Artificial)

American Art Marble Co., 609 N American, Phila., Pa.
Art Marble Co., 389 Flournoy, Chicago, Ill.
Artificial Marble Works, 351 E 61st, New York
California Scagliola Co., San Francisco, Cal.
Cassini Mosaic & Tile Co., Cincinnati, O.
Cousins, H. A. Co., 539 W 28th, New York
Eastman & Johnson Mfg. Co., Dallas, Tex.
Henry Marble Co., 3208 Shields, Chicago, Ill.
Kapailo Mfg. Co., 103 Park av, New York
Marblecrete Products Co. ("Marblecrete"), Akron, N. Y.
Marbleloid Co., 47 W 34th, New York
Standard Marble Works, Cincinnati, O.
Tesco Products Co. ("Tesco" Veneered Marble), Milwaukee, Wis.

## 7350a—Marble (Benou Jaune, Vert & Jaspe)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7350b—Marble (Breche Rose & Vert)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7351— Marble (Carrara)

Jackson, C. D., 105th & E. R., New York

## 7351a— Marble (Citron)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7352—Marble (Colored, Foreign)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)
Jackson, C. D., 105th & E. R., New York

## 7352a— Marble Columns

(See also Marble Interior Work)
**PENNA MARBLE & GRANITE CO., Penna** bldg, Phila., Pa. (See adv. index, end of book)

## 7353—Marble Columns (Artificial)

American Art Marble Co., 609 N American, Phila., Pa.
Artificial Marble Works, 351 E 61st, New York
Cousins, H. A. Co., 539 W 28th, New York

## 7354—Marble Columns (Monolithic)

Colorado Yule Marble Co. (Pure White & Veined), Marble, Colo.

## 7354a—Marble (Connemarra Irish Green)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7354b—Marble, Crushed (Graded)

**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)

## 7355— Marble Dust Mfrs.

California Portland Cement Co., Los Angeles, Cal. Works, Colton, Cal.
Crystal Marble Co. ("Snow White"), Blue Ridge, Ga.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Philadelphia, Pa. (See adv. index, end of book)
Higginson Mfg. Co., Newburgh, N. Y.
Jackson, C. D., 105th & E. R., New York
King, J. B. & Co., 17 State, New York
McIlvaine Bros. (For Builders' Use, Soap Makers & Granulated for Filtering, etc.), 1500 Hamilton, Phila., Pa.
Nelson, N. O. Marble Co., Edwardsville, Ill.
North Georgia Marble Co., Ellijay, Ga.
Ohio Marble Co., Piqua, O.
**RUTLAND FIRE CLAY CO. (Pulverized),** Rutland, Vt. (See adv. index & branch offices, end of book)
Stearns Lime & Stone Co., 165 E Randolph, Chicago, Ill.
Sholes, Chas. E. Co., 164 Front, New York
Whitaker, W. H., 245 Front, New York
White Marble & Terrazzo Co., Lee, Mass.
Whitestone Marble Co., Atlanta, Ga.
Williamson, Frank, 2202 Chestnut, Phila., Pa.

## 7355a—Marble Electric Work

(See Marble Interior Work)

## 7356—Marble Exterior Work

**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Beaver Dam Marble Co., Baltimore, Md.
Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.
Brown, Herbert L. Co., 4th av & 27th, New York
Buckeye Marble Co., Cincinnati, O. Quarries, McMillan, Tenn.
Colorado Yule Marble Co., Marble, Colo.
Evans Marble Co., 204 E York, Baltimore, Md.
Georgia Marble Finishing Works, Canton, Ga.
Gray, Wm. & Sons, 30th & S Walnut, Phila., Pa.
Norcross Bros. Co., Worcester, Mass.
Norcross Co., 1264 Riverbed, Cleveland, O.
**PENNA MARBLE & GRANITE CO., Penna** bldg, Phila., Pa. (See adv. index, end of book)


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Penna Bldg., PHILADELPHIA, PA.


Rullman & Wilson, Baltimore, Md.
Rutland Marble Mfg. Co., Rutland, Vt.
Sinclair, Jas. & Co., New York
Sisson, Hugh & Sons, Baltimore, Md.
Southern Marble Co., Marble Hill, Ga., & Worcester, Mass.
Vermont Marble Co., Proctor, Vt.

## 7356a— Marble Flour

(See Marble Dust)

## 7357— Marble for Terrazo

Whitestone Marble Co. ("Whitestone" Granite), Atlanta, Ga.

## 7357a—Marble (Graf Green)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7358— Marble (Green)

Fisher, R. C. Co. (Irish), E 139th & Locust av, New York
Georgia Verd Antique Marble Co. ("Georgia"), 108 La Salle, Chicago, Ill. Quarries: Holly Springs, Ga.
Jackson, C. D., 105th & E. R., New York
Pennsylvania Green Marble Co., Easton, Pa.
King of Prussia, Pa. Quarries, Easton, Pa.
Schuyler, Henry A., Co. ("Sylvan Green"), Easton, Pa.
Westfield Marble & Sandstone Co., Westfield, Mass.


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## 7358a— Marble (Griotte)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv., index, end of book)

## 7359— Marble (Imperial)

(Gold Vein, Violet & Gold, Fleur de Pechert & Deep Violet)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv., index, end of book)

## 7360— Marble Importers

(See also Marble, Wholesale)

Anderson Bros., Jamaica Plains, Boston, Mass., and Aberdeen, Scotland
**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv., index, end of book)
Church Art Work Co., 151 E 18th, New York
Evans Marble Co., 204 E York, Baltimore, Md.
Fenn, C. E. & Co., 164 Dearborn, Chicago, Ill.
**Fisher, Robert C. Co., E 139th & Locust av, New York**
Hilgartner Marble Co., Stockholm & Sharp, **Baltimore, Md.**
Jackson, C. D., 105th & E. R., New York
Maxwell & Dempsey, 277 Cherry, New York
Peugnet, Edw. H., 1 Madison av, New York
Pisani Bros., 14th & Ave D., New York
Roussel, Albert C., 524 W 50th, New York
Taber & Co., 446 E 106th, New York
Townsend, Townsend & Co., 453 W 21st, New York

## 7361—Marble Importers (Italian)

**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Borgia Marble Works, 1133 B'way, New York
**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv., index, end of book)
Hilgartner Marble Co., Stockholm & Sharp, **Baltimore, Md.**
Jackson, C. D., 105th & E. R., New York
Pisani Bros., 14th & Ave D, New York
Roussel, Chas. J., 524 W 50th, New York

## 7361a—Marble Importers (White)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv., index, end of book)

## 7362—Marble Interior Work

(See also Plumbers' Marble Work; also Marble Producers)

Adler, Sigmund, 421 E 101st, New York
American Art Marble Co., 609 N American,
Andres Stone & Marble Co., Milwaukee, Wis.
**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Bennington Marble Co., Dorset, Vt.
Blue Ridge Marble Co. (Georgia & Tenn. Marble Only), Nelson, Ga.
**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)
Borgia Marble Works, 1133 B'way, New York
Bowker, Torrey & Co., 55 Chardon, Boston, Mass.
Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.
Bronx Marble Works, 536 Trinity av, New York
Brown, Herbert L. Co., 4th av & 27th, New York
Buckeye Marble Co., Cincinnati, O.
Buess, Wm., 312 E 95th, New York
Cascio, S. (Counter Work, Plumbers' Work Marble Top Table, Tiling, etc.), 797-803 Lexington av., Brooklyn, N. Y.
Christa Marble Co., 504 Lafayette boul, Detroit, Mich.
Colorado Yule Marble Co., Marble, Colo.
Columbia Marble Co., San Francisco, Cal.
Cook, T. W. & Co., 1623 Tremont, Denver, Col.
Currier, E. Bradley Co., 119 W 23d, New York
Daprato Statuary Co., 766 W Adams, Chicago, Ill.
Davidson Bros. Marble Co., ft. of Orleans, Chicago, Ill.
Davis Marble Co., 214 S. 24th, Phila., Pa.
Des Moines Marble & Mantle Co., Des Moines, Iowa
Drake Marble & Tile Co., St. Paul, Minn.
Duquesne Marble Co., N S, Pittsburg, Pa.
Eckhardt Monumental Co., 3043 Monroe, Toledo, O.
Ellin, Kitson & Co., ft of W 25th, New York
Eschmann, B. & J., 638 1st av, New York
Evans Marble Co., 204 E York, Baltimore, Md.
Fisher, Robert C. Co., E 139th & Locust av, New York
Georgia Marble Finishing Works, Canton, Ga.
Grant Marble Co., 27th & Canal, Milwaukee, Wis.
Gray, Wm. & Sons, 30th & Walnut, Phila., Pa.
Grob, German & Son, 502 W 35th, New York
Hilgartner Marble Co., Stockholm & Sharp,
Horssnyder, F., Hamilton, O. Baltimore, Md.
Jacoby & Son Co., 2025 Market, Phila., Pa.
Kemlein & Leahy (Inc.), Long Island City,
Klaber, S. Co., 126 W 34th, New York N. Y.
Krulish Marble Co., 365 Avenue A, New York
Lautz Co., Buffalo, N. Y.
Lloyd Bros. Co., Toledo, O.
McGratty & Sons, 313 Butler, Brooklyn, N. Y.
McLaury, D. H. Marble Co., Walnut av, nr 141st, New York
Marcus Bros. Co., Scimitar bldg, Memphis, Tenn.
Marthens, Chester N., Marble Co., 53d & Wallace, Chicago, Ill.
Musto, Jos. Sons—Keenan Co., San Francisco, Cal.
Nelson, N. O. Marble Co., Edwardsville, Ill.
Norcross Bros. Co., Worcester, Mass.
Norcross Co., 1264 Riverbed av, N W, Cleveland, O.
**Norcross-West Marble Co., 10 E Worcester, Worcester, Mass. Mills, Manchester Depot, Vt.**
Northwestern Marble & Tile Co., 419 S 6th, Minneapolis, Minn.
Pelli, Alexander & Co., ft E 116th, New York
Peoria Stone & Marble Works, Peoria, Ill.
Pickel Marble & Granite Co., 1901 N B'way, St. Louis, Mo.
Ravenswood Co., 20 Exchange pl, New York
Rutland Marble Mfg. Co., Rutland, Vt.
Schlichter, P. M. & W., 624 W 47th, New York
Shaver, Jos. Granite & Marble Co., 506 7th, Milwaukee, Wis.
Shipway, John H. & Bros., Locust av & 136th New York
Sickels, Geo. B. Marble Co., Tate, Ga.
Sisson, Hugh & Sons, 113 N Liberty, Baltimore, Md.
Standard Marble Works (Jno. M. Mueller, Jr., Prop.), 706 W Front, Cincinnati, O.
Theis', Peter Sons, 636 1st av, New York
Toscani, John L. & Co., (Also Interior Slate Works), 930 E 178th, New York
Traitel Marble Co., Long Island City, Borough of Queens, N. Y.
Voska, Foelsch & Sidlo (Inc.), Astoria, L. I.
Weis & Jennett Marble Co., 3009 Missouri av, St. Louis, Mo.
White Marble & Terazzo Co., Lee, Mass.
Young, B. P. Co., Pittsburg, Pa.

## 7362a—Marble (Italian White)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv., index, end of book)

## 7362b— Marble (Lilas)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## Marble Mosaic

(See Mosaics, Various Kinds)

## Marble Mosaic Cube Importers

(See Mosaic Cube Importers, Etc.)

## 7364—Marble (Negalla, Alma)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7364a—Marble (Noir Antique)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7364b—Marble (Norwegian, White)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## Marble (Plumbers')

(See Plumbers' Marble Work)

## 7365—Marble (Porta Santa)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7366— Marble Producers

### ALABAMA.

SYLACUGA—Alabama White Marble Co.

### ARIZONA TERRITORY.

BOWIE—**ARIZONA MARBLE CO.** (Bockmann & Shepard, Sales Agents), 1265-9 B'way, New York. (See adv. index, end of book)

### CALIFORNIA.

SAN DIEGO—New Pedrara Mexican Onyx Co. (Onyx)
SAN FRANCISCO—Columbia Marble Co.

### COLORADO.

MARBLE—Colorado-Yule Marble Co. (Pure White, for Exterior & Interior Work, Statuary, etc.)

### GEORGIA.

ATLANTA—Atlanta Marble Co.
Whitestone Marble Co.
BALL GROUND—Amicalola Marble Co. ("Amicalola," White)
CANTON—Cherokee Marble Works
Georgia Marble Finishing Works
ELLIJAY—North Georgia Marble Co. Quarries at Talona, Ga.
HOLLY SPRINGS—Georgia Verd Antique Marble Co. (Green)
Southern Marble & Stone Co.
MARBLE HILL—Marble Hill Quarry Co.
MARIETTA—Gober Marble Co.
Kennesaw Marble Co.
McNeel Marble Co.
National Marble & Granite Co.
NELSON—Blue Ridge Marble Co.
Creole Marble Co.
TALONA—North Georgia Marble Co. Office, Ellijay, Ga.
TATE—Georgia Marble Co.
Sickels, Geo. B. Marble Co.

### ILLINOIS.

CHICAGO—Evans Marble Co., Ashland blk
Georgia Verd Antique Marble Co. (Green), 108 La Salle, Quarries at Holly Springs, Ga.

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## MARYLAND.

BALTIMORE—Beaver Dam Marble Co., 704 Constitution. Quarries, Cockeyville, Md.
Evans Marble Co., 204 E. York
Sisson, Hugh & Sons, 210 E. Baltimore.
LOCH RAVEN—Baltimore County Marble & Trading Co. (White)

## MASSACHUSETTS.

ASHLEY FALLS—Ashley Falls Marble Co.
GREAT BARRINGTON — Chester, Goodale
LEE—Gross, W. H. Marble Co.
Gross, W. H.
Lee Marble Co.
White Marble & Terazzo Co.
WESTFIELD—Westfield Marble & Sandstone Co.
WEST STOCKBRIDGE—West Stockbridge Marble Works
WORCESTER—Norcross Bros. Co. (Georgia, Tuckahoe & Vermont), 10 E Worcester
Norcross-West Marble Co. (White, White Mottled & Silver Grey), 10 E. Worcester.
Mills, Manchester Depot, Vt.

## MISSOURI.

CARTHAGE—Carthage Marble Quarries Co.
Carthage Marble & White Lime Co.
Carthage Monumental Stone Quarry Co.
Carthage Quarry Co.
Carthage Stone Co.
Carthage Superior Marble & Limestone Co.
Consolidated Marble & Stone Co.'s
Kellogg Marble Co.
Missouri Stone & Construction Co.
Spring River Stone Co.
ST. LOUIS—Bradbury Marble Co., 1229 So. 2d
Carthage Marble & White Lime Co., Emilie bldg

## NEW YORK.

CARTHAGE—Crooks & McLean Co.
GOUVERNEUR—Gouverneur Marble Co.
Northern New York Marble Co.
Scholton, D. G. (Wholesale)
St. Lawrence Marble Quarries
Standard Marble Co.
Sullivan, John
Whitney, Dan'l J. (Wholesale)
NEW YORK—Alabama White Marble Co., 156 5th av
**BATTERSON & EISELE, Times** bldg. (42d st.). (See adv. index, end of book)
Colorado-Yule Marble Co., 320 5th av. Quarries: Marble, Colo.
Marble Hill Quarry Co., 34 Pine
Norcross Bros. Co. (Georgia, Tuckahoe & Vermont), 160 5th av
Snowflake Marble Co., 156 B'way
Tuckahoe Marble Co., 413 E 29th
Waverly Marble Co. (Tuckahoe), 1 Madison av
WINDALE—Dover White Marble Co.

## OHIO.

CINCINNATI—Buckeye Marble Co. (Tennessee)
Meadow Marble Co. (Grey & Pink Tennessee), Quarries: Meadow, Tenn.

## PENNSYLVANIA.

KING OF PRUSSIA—Schweyer & Liess (Blue & Dark Blue)
Schweyer, Henry A. Co. ("Sylvan Green") Quarries, Easton, Pa.
PHILADELPHIA — **PENN. MARBLE &** Granite Co. (Penna. White), Penna. bldg. (See adv. index, end of book)
Peverley Bros., Heed bldg
Reynolds, R. V. & Co., Heed bldg
WEST GROVE—Penna. Marble & Granite Co.

## TENNESSEE.

KNOXVILLE—Appalachian Marble Co.
Craig, Jno. J. Co.
Empire Marble Co.
Evans Marble Co.
Gray Eagle Marble Co.
Imperial Marble Co.
Knoxville Marble Co.
Knoxville Monumental Works
Republic Marble Co.
Ross, Jno. M.
Ross Marble Co.
Southern Monument Co.
Tennessee Producers' Marble Co.
United States Marble Co.
Victoria Marble Co.
MEADOW—Meadow Marble Co. (See Cincinnati, O.)

## VERMONT.

BURLINGTON—Goodell, J. W.
CLARENDON SPRINGS—Orvillo Marble Co.
DORSET—Bennington Marble Co.
EAST DORSET—Manchester Marble Co.
**FAIR HAVEN—American Marble Co.**
American Marble & Marbleized Slate
Warner, Jacob.
FOWLER—Rutland Florence Marble Co.
MANCHESTER CENTER—Beebe, Wm. G.
MANCHESTER DEPOT — Norcross - West Marble Co. (White, White Mottled & Silver Grey)
MIDDLEBURY—Brandon Italian Marble Co.
PROCTOR—Vermont Marble Co.
RUTLAND—Vermont Marble Co., Centre Rutland
SWANTON—Barney Marble Co.
WEST RUTLAND—West Rutland Marble Co.

## VIRGINIA.

RICHMOND—Wray, Andrew J.

## 7366a— Marble (Rose Vif.)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)

## 7367—Marble (Royal Irish Green)

Fisher, R. C. & Co., E 139th & Locust av, New York

## Marble Sawing Machines

(See Stone Sawing Machines)

## 7368— Marble (Serpentine)

**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)
Fisher, Robert C. Co., E 139th & Locust av, New York
Jackson, C. D., 105th & E. R., New York
Tompkins-Kiel Marble Co., 505 5th av, New York
Westfield Marble & Sandstone Co. (Black & Green), Westfield, Mass.

## 7369— Marble Statuary

**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)

## 7370— Marble ("Tesco")

Tesco Products Co. (Veneerel), Milwaukee, Wis.

## 7371—Marble (Wholesale)

(See also Marble Importers)

**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)

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**BOCKMANN & SHEPARD, 1265-9 B'way,** New York. (See adv. index, end of book)
Bradbury Marble Co. (Georgia, etc.), 1229 S 2d, St. Louis, Mo.
Brown, Herbert L. & Co., 381 4th av, New York
Carthage Marble & White Lime Co. (Georgia & Tennessee), Emilie bldg, St. Louis, Mo.
Colorado Yule Marble Co. (Pure White, for Exterior & Interior Work, Statuary, etc.), Marble, Colo.
Evans Marble Co., York & William, Baltimore, Md.
Fenn, C. E. & Co., 164 Dearborn, Chicago, Ill.
Freedley, J. K. & Sons, 210 S 24th, Phila., Pa.
Hilgartner Marble Co., Stockholm & Sharp, Baltimore, Md.
Jackson, C. D., 105th & E. R., New York
Piscani Bros., Astoria (Borough of Queens, New York)
Roussel, Chas. J., 524 W 50th, New York
Southern Marble Co., Atlanta, Ga.
Taber & Co., 24 Corlears, New York
Temple Bros., Rutland, Vt.
Tompkins-Kiel Marble Co. ("Eastman's," Cream, Green & White), 505 5th av, New York
Vermont Marble Co., Main Office, Proctor, Vt.
Williamson, Frank, 2202 Chestnut, Phila., Pa.

## 7372— Marblecrete

Marblecrete Products Co., Akron, N. Y.

## 7372a—Marbleized Fibre Flooring

Marbleized Fibre Co. (Walls, Wainscoting, etc.), Cincinnati, O.

## 7373— Marbles (Playing)

Johnston & Sharp Mfg. Co. (Hollow Steel), Ottumwa, Ia.
Standard Toy Marble Co. (Toy Marbles), Akron, Ohio

## 7374—Marine Railway Builders

Crandall, H. I. & Son Co. (For Dry Docks), 100 Border, E. B., Boston, Mass.
Devney, H. J. & J. P., Ashtabula, O.
Laird & Sons, Ashtabula, O.
Murray, Jas. & Son, 102 E York, Baltimore, Md.
National Water Tube Boiler Co., New Brunswick, N. J.
New London Marine Iron Works, New London, Conn.

## Marine Railways

(See Dry Docks & Marine Railways)

## 7374a— Marine Repairs

**GRISCOM-SPENCER CO., 90 West, New** York. (See adv. index & branch offices, end of book)

## 7375— Markers (Center)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co. (Structural Iron), Cleveland, O.
Wiedeke, Gustav & Co. (Boilermakers'), Dayton, O.

## 7376—Markers (Clap-Board)

Goodell-Pratt Co. ("Shepardson"), Greenfield, Mass.
Smith, Otis A., Rockfall, Conn.
Stanley Rule & Level Co., New Britain, Conn.

## 7377— Marline (Tarred)

**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York. (See adv. index, end of book)
**NEW YORK CORDAGE CO. ("Ny-**cord"), 85 Wall, New York. (See adv. index, end of book)

## 7378— Marquees

**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Bronze &** Iron), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Glen Mfg. Co., Ellwood City, Pa.
Halsted, Jos. Co., 1233 W Randolph, Chicago, Ill.

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Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO.** (Bronze & Iron), Mount Vernon, N. Y. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY (Iron** & Bronze), 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)
**MEYERS, FRED. J. MFG. CO.,** Hamilton, O. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works (Iron & Glass), 136-138 W 24th, New York. (See adv. index, end of book)
**REMPPIS, WM. F. CO., Reading, Pa.** & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth (Boro of Queens), N. Y. City
**ST. PAUL ROOFING, CORNICE & OR-**nament Co. (Sheet Metal), St. Paul, Minn. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO.,** 8th & Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON** Works, Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Sommerville Iron & Bronze Co., 5637-5649 Butler, Pittsburg, Pa.
**STANDARD CO., Railway Exchange bldg.,** Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg Pa. (See adv index, end of book)
Tiffany Studios, 347 Madison av, New York
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See av. index & branch offices, end of book)
**UNION FOUNDRY WORKS, 38 S** Dearborn, Chicago, Ill. (See adv. index, end of book)
**VULCAN CO., Detroit, Mich. (See adv.** index, end of book)
**WINSLOW BROS. COMPANY, Main** Office & Works, 4600 W Harrison, Chicago, Ill., & 103 Park av, New York. (See adv. index & branch offices, end of book)

## 7379— Mashers (Potato)

A. & J. Mfg. Co. ("A. & J."), Binghamton, N. Y.
Brown & Dowd Mfg. Co. ("Rapid," Masher & Beater), Meriden, Conn.
Erie Specialty Co., Erie, Pa.
Goodell Co., Antrim, N. H.
**Hamblin & Russell Mfg. Co., Worcester, Mass.**
Kilbourne Mfg. Co. (Wire), Troy, N. Y.
Minerva Hardware Mfg. Co. ("3-in-1"), Min-National Mfg. Co., Worcester, Mass. erva, O.
Wire Goods Co. (Wire), Worcester, Mass.
Wire Hardware Co., 1824 Besly court, Chicago, Ill.

## 7380— Masks (Base Ball)

Chicago Sporting Goods Mfg. Co., 1115 Fulton, Chicago, Ill.
Draper & Maynard Co., Plymouth, N. H.
Goldsmith's, P. Sons, Cincinnati, O.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Reach, A. J. Co., Tulip & Palmer, Phila., Pa.
Spalding, A. G. & Bros., 126 Nassau, New York
Stall & Dean Mfg. Co., Brockton, Mass.
Victor Sporting Goods Co., Springfield, Mass.
Western Sporting Goods Mfg. Co., 126 N Union Chicago, Ill.
Wright & Ditson (Inc.), Boston, Mass.

## Masons' Leads

(See Plumb Bobs)

## 7381— Masons' Lines

Bibb Mfg. Co., Macon, Ga.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Ossawan Mills Co., Norwich, Conn.
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO., 78 Chauncy, Boston,** Mass. (See adv. index, end of book)
Turner & Stanton Co., Norwich, Conn.

## Masons & Builders

(See Builders, Contracting; also Contractors, General)

## 7382—Masons' & Builders' Materials

(See also Brick, Various Kinds; Cement, Various Kinds; Chimney Pipe, etc.; Fire-Proofing, Various Kinds; Flue Linings; Granite, Various Kinds; Hangers, Joist; Lath, Metal, etc.; Lime Manufacturers; Marble, Various Kinds; Mortar Colors; Plaster, Various Kinds; Sand & Gravel Dealers; Sewer Pipe; Slate, Various Kinds; Stone, Crushed; Stone Producers, Workers, etc.; Terra Cotta, Architectural; Wall Finishes; Wall Ties)

### ALABAMA.

ANNISTON—Anniston Lime & Stone Co.
Anniston Supply Co.
Houser, C. J.
Whetstone & Co.
BESSEMER—Edwards, G. B.
BIRMINGHAM—Am. Wood Fibre Plaster Co.
Birmingham Sand Brick & Supply Co.
Baldwin, J. Frank, 2217 Morris av
Brewer, W. P.
Carolina Portland Cement Co.
Savage Sand & Supply Co.
Wood Dickerson Co.
Woodlawn Supply Co.
EUFAULA—Eufaula Lumber Co.
LONGVIEW—Longview Lime Works
MARION—Woodfin, S. V.
MOBILE—Bray, Harry H.
Mobile Coal Co.
St. John & Co.
MONTGOMERY—Alabama Lumber Co.
Bogacki, C. Y.
Hobbie, H. M. Grocery Co.
Kennedy Co.
Payne & Payne Building Material Co.
Riverside Brick Co.
Vandiver, W. F. & Co.
Vesuvius Lumber Co.
Winter, Loeb & Co.
SELMA—Schuster, B. J.
Tissier Hdw. Co.
SHEFFIELD—Marks, H.

### ARIZONA TERRITORY.

DOUGLAS—Roy & Titcomb
PHOENIX—De Mund Lumber Co.
Ryder, H. W.
TUCSON—Tucson Lumber Co.

### ARKANSAS.

BATESVILLE—Hanford (The) Stone & Lime
HELENA—Carvill, Herman & Co. Co.
Hargraves, D. T. & Co.
Straub, N. Sons Mercantile Co.
JONESBORO—Barton Lbr. & Brick Co.
Stuck, C. A. & Sons
LITTLE ROCK—Arkansas Brick & Mfg. Co.
Jones, Dudley E., Co.
Leifer Mfg. Co.
Leiper, G. A.
MAGNOLIA—Warnock, W. H.
PINE BLUFF—Bastrop Lumber Co.
Westbrook Grain & Commission Co.
TEXARKANA—Chatfield & Buhrman Hardware Co.

### CALIFORNIA.

ALAMEDA—Powell Bros. Construction Co.
Rhodes & Jamieson
BERKELEY—Foss, F. W. Co.
Taylor, Henry W.
EUREKA—Bayside Lumber Co.
FRESNO—Pierce, C. S., Lumber Co.
Valley Lumber Co.
LODI—Smith & Bryant Lumber Co.
Young, W. A., Lumber Co.
LOS ANGELES—Fuller, W. P. & Co., 144 N Los Angeles
Ganahl, C. Lumber Co., 830 E 1st
Grand Canyon Lime & Cement Co., ft of Turner & Santa Fe R. R. Yards
Helsel, M. L., 636 S Hope
Los Angeles Lime Co., 359 E 2d
Los Angeles Storage, Commission & Lum-
Missall, E. H. & Co., 920 Towne ber Co.
Scherm, J. S., ft of Turner
Snyder Lime Co.
Spreckels Bros. Commercial Co., 125 W 2d
Union Lime Co.
Western Commercial Co., 425 E Market
MARYSVILLE — Marysville Sand, Cement Block & Brick Co.
NAPA—Hatt, A. Warehouse & Lumber Co.
Shwarz, H. Co.
OAKLAND—Remillard Brick Co., 2d & Clay
Stone, E. B. & A. L. Co.
Wellbye, W. H., Telegraph av & 18th
PASADENA—Blinn, L. W. Lumber Co.
Kerckhoff-Cuzner Mill & Lumber Co.
PETALUMA—Kahn, A.
RED BLUFF—Holt & Gregg Co.
SACRAMENTO—Kreuzberger, Bartle
SAN DIEGO—Schirm, J. S.
SAN FRANCISCO—Balfour, Guthrie & Co., 320 Sansome
Brady, Mathew & Co., Monadnock Bldg.
Builders' Supply Co., 42 Eighth
Building Material Co., Monadnock Bldg.
Burgess, C. W., 1715 Mission
California Builders' Material and Mfg. Co.
Chuffuck & Harris, 710 Mission
Cowell, Henry, Lime & Cement Co., Buck-
Cunningham, G. H., 40 8th ley Bldg.
Dempster & Son, Merchants Exchange
Dolan & Dolan, 1643 Market bldg
Fernald Co., 248 Tehama
Gillon, Edward E., 1432 Point Lobos av
Girvin & Eyre, Merchants' Exch bldg
Grace, Wm. R. & Co., 612 California
Holden & Deuprey Co., 126 W Mission
Holmes Lime Co., Mutual Savings Bank
Lennon, James E., 362 Church Bldg.
Liggett & McCroskey, 680 Mission
McNear, F. W., 2155 Canal
Meyer, Wilson & Co., 426 California
Monterey Lime Co., Battery & Wash'n
North Point Warehouse Co., Mason & Bay
Pacific-Portland Cement Co., Pacific Bldg.
Pendleton, H. C., 328 Fell
Prindle, Arthur, 185 Stevenson
Rosekrans, H. & Co., 511 6th
Smith, Sterling W., Monadnock Bldg.
Snell, Edw. L., 425 Fulton
Spreckels, J. D. & Bros., 90 Clay
Sullivan, D. J. & T., 1942 Folsom
Tuttle, John, 110 Webster
United Builders' Supply Co., 687 Mission
United Materials Co., 10 3d
Waterhouse & Price Co., 228 Oak
Western Builders' Supply Co., 680 Mission
Western Building Material Co., 430 Cali-
Western Fuel Co., 430 California fornia
Western Lime & Cement Co., 268 Market
Western Supply Co., Pacific Bldg.
Williams & Carter Co., 197 Jessie
Willkomm Building Supply Co., 149 Te-
SAN JOSE—Hart, H. & Co. hama
SANTA ANA—Pendleton, S. H. Lumber & Mill
SANTA BARBARA—Union Mill Co. Co.
SANTA ROSA—Berka, F.
Santa Rosa Material Co.
STOCKTON—Hammond & Yardley
Hedges, Buck & Co.
VALLEJO—Aden Co.

### COLORADO.

ASPEN—Tomkins, Lewis H. Hardware Co.
DENVER—Barrows, Geo. A. Lime Co., 1570 14th
Cement, Stone, Brick & Sand Co.
Cement & Lime Products Co.
Colorado Lime & Fluxing Co., McPhee Bldg.
Fisher, Francis J. & Co., 1704 16th
Fleming Bros., 139 Broadway
Hallack Lumber & Supply Co., 3901 Gilpin
Hathaway, S. T., 11th cor Wewatta
McPhee & McGinnity, 18th c Wazee
Pearl Lime & Coal Co., 1475 W. Colfax av.
Portland Cement Co. (Mfrs. & Jobbers), Colo-
rado Bldg.
Rocky Mountain Fuel Co., 1010 16th
Sayre-Newton Lumber Co., 23d & Blake
Threewit, Benj. F., 1700 15th
Western Cement & Lumber Co., 9th & 23d
GREELEY—Neill & Ward
LEADVILLE—Harvey, John Fuel & Feed Co.
Leadville Hdw. Co.
Williams Lumber Co., 6th & Hemlock
PUEBLO—Newton Lumber Co.
RED CLIFF—Fleming, J. F. & Co.
ROCKY FORD—English, R. W. Lumber Co.
TRINIDAD—Davis, O. L. Lumber Co.
Hughes Bros. Lumber Co.

### CONNECTICUT.

BERLIN—Merwin Brick Co.
BRIDGEPORT—Burns & Co., 83 Fairfield
Purdy, Henry M. Co., 550 Water
Wheeler & Howes, United Bank bldg.
BRISTOL—Judd, D. B. & Co.
Saxton & Strong, 155 N. Main
BROOKFIELD—New England Lime Co.
CANAAN—Canfield Lime Co.
DANBURY—Osborn, A. C.
DANIELSON—Nichols, James A. & Co.
Young Bros.
DERBY—Abbott & Co.
GREENWICH—Brush, Joseph
Maher Bros.
HARTFORD—Belden, Seth & Son, 69 Com-
merce
Billings Sidewalk & Coal Co., 437 Sheldon
Coburn, Charles, 154 State

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Hartford Pulp Plaster Co., 300 Sargeant
Putnam, H. E., 300 Sargeant
Watson, Alexander
JEWETT CITY—Church, R. R.
LAKEVILLE—Spurr, E. W. Co.
MANCHESTER—Hollister, Wesley
MERIDEN—Lines, H. Wales Co., 134 State
Lyon & Billard Co., 13 S. Colony
MIDDLETOWN—Davis, L. O. & E. S.
Suzio, Leonardo
MILFORD—Smith, D. E.
NEW BRITAIN—City Coal & Wood Co., 246
Damon, W. L. Main
NEW CANAAN—Weed & Turner
NEW HAVEN—Atwater, W. J. & Co., 962 Grand
Conn Adamant Plaster Co., 10 River
Howard Co., 250 Boulevard
Lightbourne & Pond Co., 33 B'way
New England Stone Co.
Warner-Miller Co.
NEW LONDON—Ladd, F. M. Co.
Marquardt Bros.
NEW MILFORD—Beach, O. M.
Soule, T. Co.
NORWALK—Hubbell, Hall & Randall Co.
Meeker Coal Co.
NORWICH—Carpenter, A. N.
Chappel, E. Co.
Peck, McWilliams & Co.
PORTLAND—Strong & Hale
PUTNAM—Fox, Jno. O. & Co.
Kinney, Myron & Son
Wheaton Building & Lumber Co.
ROCKVILLE—Hill, Geo. W.
ROXBURY STATION—Hodge, A. L. & Son
SEYMOUR—Beach, A. Y.
SHELTON—Clark, D. N., 32 Bridge
SOUTHINGTON—Southington Lumber & Feed
SOUTH NORWALK—(See Norwalk) Co.
SOUTHPORT—Northrop Bros.
STAMFORD—Bounty, A. E.
Stamford Mason Supply Co.
SUFFIELD—Spencer Bros.
TORRINGTON—Bronson Lbr. & Coal Co.
Hotchkiss Bros. Co.
WALLINGFORD—Gallagher Bros.
WATERBURY—Bergen, Edw. & Sons, 475
Chatfield, Geo. S. Co., 73 Canal Baldwin
Chatfield & Chatfield, 99 Benedict
Gaffney, John W. & Son, 427 E Main
Lane, Alfred H.
McManus, Edw.
WATERTOWN—Atwood, C. W.
Hitchcock Hardware Co.
WEST REDDING—New England Lime Co.
WILLIMANTIC—Hillhouse & Taylor, 47 Milk
WINDSOR LOCKS—Bidwell, F. S. & Co.
WINSTED—Bronson Bros.
Burwell, J. C.

## DELAWARE.

GEORGETOWN—Thoroughgood, Wm. J.
MIDDLETOWN—Hukill, G. E.
NEWARK—Wright, H. B. Co.
NEW CASTLE—Eliason, J. T. & L. E.
NEWPORT—Justis, Justa G.
WILMINGTON—Conloy Bros.
Pyle, Victor R.
Warner, Chas. Co. (Mfrs. & Distributors.
Woodward & Bro. Wholesale & Retail)

## DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 614 11th, N W
Barker, Geo. M., 649 New York av, N W
Clark, T. E., 1305 New Jersey av
Cranford Paving Co., 2620 E, N W
Hartig, Gustav, 509 H, N E
Hartig, Louis, 1001 7th, N W
McGill, Jas. H., McGill bldg
National Mortar Co., 612 F, N W
Rosslyn Supply Co., Colorado bldg
Walker's, J. T. Sons, 1740 7th, N W
Water, J. G. & Sons, 1045 Wisconsin av,
Wyne, J. R. & Co., 209 12th, NW NW

## FLORIDA.

DAYTONA—Maley, R. S.
GAINESVILLE—Baird Hdw. Co.
JACKSONVILLE—Jacksonville Concrete Co.
Southern Fuel & Supply Co.
KEY WEST—Curry's, Wm. Sons, 611 Front
OCALA—McIver & MacKay (Dealers)
ORLANDO—Bumby, Jos.
PALATKA—Kennerly Hdw. Co.
Merryday Grocery Co.
ST. AUGUSTINE—Hamblen, C. F.
SANFORD—Fernald, Geo. H. Hardware Co.
Hill, A. E.
TAMPA—Knight & Wall Co.
Phillips, I. W. Co.

## GEORGIA.

ALBANY—Cruger & Pace
Weston, J. D. & Son
AMERICUS—Hamil, A. J., 515 Cotton av
ATHENS—Athens Hardware Co.
Bailey Supply Co.
ATLANTA—Carolina Portland Cement Co.
Davis, W. P., 534 S Pryor
Dunning & Son
Kriegshaber, V. H. & Son
Randall Bros., Peters bldg
Sciple Sons, W. Fair & Cen. R. R.
AUGUSTA—Burum & Co.
Dunbar, B.S.
Merry Bros.
Rutherford & Co.
Tarver, J. E.
BRUNSWICK—Coney & Parker
CARTERSVILLE—Ladd Lime Co.
CEDARTOWN—Hall & Barr
COLUMBUS—Beach, Wm. Hardware Co., 1120
Dudley Sash & Door Co. Broad
Elledge & Norman Marble Co.
Gruzard Supply Co.
Harvey, W. T. Lumber Co.
Shepherd Bros.
CORDELE—Cordele Sash, Door & Lumber Co.
Hutchinson Lumber & Supply Co.
DALTON—Cherokee Mfg. Co.
Farrar Lbr. Co.
MACON—Burke, T. C., 358 3d
Elder, W. F.
Massee & Felton Lbr. Co.
Wilder's, R. C. Sons Co., 614 3d
MARIETTA—Henderson, C. E.
MILLEDGEVILLE—Walker, W. A.
ROME—O'Neill Mfg. Co.
SAVANNAH—Butler, J. G. Builders' Supply
Gallagher-Louis Co. Co.
General Building Supply Co.
Lovell's, Edw. Sons
Neal-Blun Co.
Savannah Building Supply Co.
THOMASVILLE—Dillon, J. W.
Evans & Son

## HAWAII.

HONOLULU—Lewers & Cooke (Ltd.)

## IDAHO.

BOISE—Ridenbaugh, W. H., 9th & Front
Sanders, Francis Co.
Shaw Lumber Co.
IDAHO FALLS—Dill, J. W.
TWIN FALLS—Ball Bros. Co.

## ILLINOIS.

ALEDO—Carroll, Guy H.
ALLENDALE—Keyser, Jos.
ALTON—Alton Builders' Supply Co.
Alton Lime & Cement Co.
Armstrong, John
Miller, J. B.
ARCOLA—Potter Lumber Co.
AURORA—Aucutt's, Gus, Sons
Dalton, J. D., & Son
Hanna & Todd
Seamans, S. D.
White & Todd
BARRINGTON—Lageschulte, Henry J. & Co.
Lamey & Co.
BATAVIA—Barker, W. P. & Son
Eager, Jas.
Hunter-Griffith Co.
BEAVERVILLE—Lambert, H. Co.
BELLEVILLE—Daab, Fred Co.
Bien & Peters
Reeb Bros.
BELVIDERE—Wright, O. H. & Co.
BEMENT—Wilkirson Co.
BLOOMINGTON—Darlington, E. R. Lumber Co.
Evans, John W. Sons Co.
Harwood, W. S. & Bro.
Parker Bros.
White, Sam'l R. Mfg. Co.
BUSHNELL—Simpson & Co.
CAIRO—Halliday, H. H. Sand & Gravel Co.
Halliday, W. P. (Est. of)
Lancaster & Rice Lumber & Mfg Co., Com-
Langan, P. T. mercial av
CARLINVILLE—Woodward, S. S. Hardware
CARROLLTON—Widdowson, J. M. Co.
CARTHAGE—Helfrich, N. J. & Co.
Lyon, W. E. & Co.
CATLIN—Jones, A. & Sons
CHANDLERVILLE—Goodell, J. H. & Son
CHARLESTON—Fuller Bros.
CHATSWORTH—Walter, Geo. J.
CHENOA—Dexter & Schmitt.
CHICAGO—Alpha Portland Cement Co., Mar-
quette bldg
Artesian Stone & Lime Works Co., 138
Washington
Bos, John N. (Sand), 2613 Crystal
Carpenter & Browning (Sewer Pipe, etc.),
40th av & Taylor
Chicago Building Material Co., 79 Dearborn
Chicago Clay Products Co., 43d av & Taylor
Chicago Lime Co., 138 Washington
Chicago Portland Cement Co. (Cement
Mfrs.), 108 La Salle
Chicago Union Lime Works Co., 138
Wash'n
Dee, Wm. E. Co. (Sewer Pipe), 1030 Lasalle
Druecker, N. J. & Co., 1497 Artesian av
Frerk, Henry, 3135 W Belmont av
Garden City Sand Co., 134 Washington
German American Portland Cement Works
(Cement Mfrs.), 204 Dearborn
Jenkins & Reynolds Co., Chamber of Com-
merce bldg
Knickerbocker Ice Co., 171 La Salle
Lake Shore Sand Co., 138 Washington
Lill, James E. (Lime), 1225 Bryn Mawr av
Longwell Teaming & Storage Co., 2246 Lbr
McLaughlin Bldg. Material Co., 145 Lasalle
Marquette Cement Mfg. Co. (Cement
Mfrs.), 204 Dearborn
Meacham & Wright Co. (Cement), 206 La
Salle
Mississippi Valley Portland Cement Co., 1st
Nat'l Bank bldg
Moulding, Thos. Co., 138 Washington
Raschke, O. F., 3600 Winchester av.
Richardson Sand Co., 138 Washington
Rockwell Lime Co., 604 S Talman av
Schultz, Fred. (Lime), 653 W 16th
Snyder, Wm. J., 1733 N 43d av
Staley, M. A. Co. (Sewer Pipe), Cornelia
av & C M & St P Ry
Stearns Lime & Stone Co., 165 E. Ran-
dolph
Templeton Lime Co., 510 N. Homan av.
Tobin, T. M. Bros. Co., 9326 S Chicago av
Tuthill Building Material Co., 825 S 47th
Viall, O. A., 737 120th
Waukesha Lime & Stone Co., 1756 N.
Central Park av
Williams, N. A. Co. (Sewer Pipe, etc.),
Chamber of Commerce bldg
Wisconsin Lime & Cement Co., 138 Wash'n
CHICAGO HEIGHTS—Flanner & Fellows Lum-
Leising, Josf. F. & Co. ber Co.
CICERO—Cicero Fuel & Building Material Co.
CLINTON—Kent, E. & Co.
COLLINSVILLE—Steinmeyer, H. & Bro.
DALLAS CITY—Black & Loomis Co.
DANVILLE—Ganor, M. & Son.
Holden, N. E.
DECATUR—Parke, V. H. & Son Co.
EAST ST. LOUIS—Acme Cement Plaster Co.
Builders' Supply & Coal Co.
Flannery, P. & Son. Terminal Belt
Granite City Lime & Cement Co.
Hill, W. H. Lime & Cement Co., 6th and
DIXON—Alexander Lumber Co. Walnut
Emerson Lumber Co.
Wilbur Lumber Co.
Young Thomas
EDWARDSVILLE—Hotz Lumber Co
EFFINGHAM—Wildi-Leddy Lumber Co.
ELGIN—Adams, Fred M.
Bosworth, F. S. & Son
Geister, C. H.
Knickerbocker Ice Co.
McBridge, T. & Son
Seymour, Wm. H.
Wells & Sherwood.
EL PASO—McKinney & Co.
EVANSTON—Connor, J. C. Co.
Wigginton, James
FAIRFIELD—Fairfield Lumber Co.
FLANAGAN—Litchfield Bros.
FORREST—Opie, W. H.
FREEPORT—Ascher, Wm.
Brubaker, B. F.
FULTON—Snyder, J. C.
GALESBURG—Hinchliff Lumber Co.
Houghton Lumber Co.
Simpson-McClure Lumber Co.
Terry Lumber Co.
GALVA—Houghton, E. W. Lumber Co.
GENESEO—Goss, John W. & Co.
Turner Lumber Co.
GENOA—Merritt & Hadsall
GIBSON CITY—Smith, A. J.
GRANITE CITY—Granite City Lime & Ce-
ment Co.
GRAYSLAKE—Wilbur, F. C., Lumber Co.
GREENFIELD—Entrekin, J. H.
GREENVIEW—Tripp Bros.
HAMPSHIRE—Kirchoff Bros.

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HARVARD—Hall, W. D.
Lake, Harris & Backus
HARVEY—Harvey Coal Co.
HIGHLAND PARK—Middleton, John
HIGHWOOD—Highwood Mfg. Co.
HINCKLEY—Pogue Bros. Lumber Co.
HOOPESTON—Illinois Lumber, Grain & Coal Co.
HUME—Lyons, Oliver
HUTSONVILLE—Hutsonville Brick & Tile Co
JACKSONVILLE—Andrews, B. P. & Sons
JERSEYVILLE—Christy, John (Lime)
Cockrell, E. Lumber Co.
JOLIET—Buck, Werden
Hays, A. W.
Johnson, A. C. & Son
Leach, Hy. & Son
Patterson, T. H. (Est. of)
Truby, M. & Son
KANKAKEE—Kankakee Tile & Brick Co.
Lafond, T. & Son
Ruehle, Christian
KEWANEE—Johnston Lumber Co.
Porter, Jas.
KEYESPORT—Langham, Wm.
LANARK—Wilbur Lumber Co.
LA GRANGE—Vial, Joseph
LA SALLE—Church Appliance Mfg. Co.
Hunter, Stevens & Co.
LEMONT—Derby, S. L. Lumber Co.
LINCOLN—Spellman & Spitley
LOAMI—Baker, George W.
McHENRY—Wilbur Lumber Co.
McLEAN—Dodgson, L. P. & Son
MALTA—Haish & Veale
MATTOON—Andrews Bros.
MENDON—Nutt, W. T. & Son
METROPOLIS—Gibbons, A. J.
MILFORD—Jones Bros.
MINONK—Kipp, A. B.
MOLINE—Channel Ice Co.
Mueller Lumber Co.
Wood, Beder
MONMOUTH—McCullough Lumber & Coal Co.
MONTICELLO—Lodge, W. F.
Maier, John
MORGAN PARK—Derby, S. O.
MORRIS—Huff, D. S.
MORRISON—Potter, M. H.
MOUNT CARROLL—Rhodes Bros. & Co.
MOUNT MORRIS—Wingert & Clevidence
NASHVILLE—Weihe, W. O.
NEWMAN—Thomas, R.
NORTH CRYSTAL LAKE—Wilbur Lumber Co.
OAK PARK—Bryant Bros.
PARIS—Art, Risser & Co.
Logan, W. S.
Logan, Walter & Jno.
Propst Lumber Co.
PEKIN—Conklin, Reuling Co.
Lampit, Ed. F.
Zimmer, E. & Co.
PEORIA—Mackemer Lumber Co.
Miller, Jos. & Sons
Peoria Fuel Co.
Wasson, T. J.
PERU—Zimmerman, Christian & Co.
PETERSBURG—Anderson, Chas.
PONTIAC—Smith, F. N.
PORT BYRON—Port Byron Lime Ass'n
PRINCETON—Davis & Son
Houghton Lumber Co.
QUINCY—Heidemann Lumber Co.
Moller-Vandam Boom Lumber Co.
Meyer, W. D.
Quincy Lumber Co.
Quincy White Lime & Cement Co.
Williamson, H. A.
ROCK FALLS—Johnson Lumber Co.
Smith & Grater
ROCKFORD—Bartlett, A. L. Co.
Hart & Page
McFarland-Colton Co.
Parsons Lumber Co.
Rock Plaster Co.
Rockford Hydrate Line & Supply Co.
Rockford Lumber & Fuel Co.
Safford, G. N. & Co.
Skandia Coal & Lumber Co.
ROCK ISLAND—Empire Coal & Coke Co.
Mueller Lumber Co.
Port Byron Lime Ass'n
Rock Island Sand & Gravel Co.
SAVANNA—Rhodes, W. P.
SPRINGFIELD—Baker & Baker
Eielson, Aolag
Irwin, H. C.
Schuck, J. H. & Son
Vredenburgh, Peter Lumber Co.
STANFORD—Jones, C. S. Lumber Co.
STERLING—Dillon, Moses Co.
Simpson, J. C. Co.
Street & Stockley
STREATOR—Ames, J. C. Lumber Co.
Anthony, Mark
Streator Lumber Co.
SYCAMORE—Holcomb Bros.
North Side Lumber Co.
URBANA—Huff, S. E. & Co.
UTICA—Utica Cement Mfg. Co.
Utica Hydraulic Cement Co.
VERMILION—Hornberger, J. A.
WADY PETRA—Chase, Heber & Co.
WARREN—Taylor, C. F.
WATERMAN—Pogue Bros. Lumber Co.
WAUKEGAN—Airstow, F. B.
WEST SALEM—Miller Bros.
WHEATON—Sutcliffe, John
Wheaton, F. E. & Son
WHITE HALL—White Hall Sewer Pipe & Stoneware Co.
WOODLAND—Anderson, J. W.

## INDIANA.

ALEXANDRIA—Brannum Lumber Co.
ANDERSON—Bailey, J. W. & Co.
Vernon, E. G. & Son, N Main
ANGOLA—Gilbert T. R.
Shank, Daniel
ATTICA—Martin, H. C. & Co.
AUBURN—Brandon Lumber Co.
BLOOMINGTON—Bloomington Coal Co.
Hughes Bros.
BOONVILLE—White, C. P. Lumber Co.
White, C. P. Lumber Co.
BRAZIL—Halstead, J. N.
McCrea & Brown Co.
BREMEN—Steineck, J. H.
BROOKVILLE—Fries, A. & Sons
Masters, J. H.
CARLISLE—Risinger & Ellis
CICERO—Cicero Lumber Co.
CLAY CITY—Guirl, B. M.
COLUMBUS—Dunlap & Co.
Hege & Co.
CONNERSVILLE—Williams Bros.
CORYDON—Bulleit, J. J. Son
COVINGTON—Clark, M. H.
CRAWFORDSVILLE—Binford, J. & Sons
EARL PARK—Wilbur Lumber Co.
EAST CHICAGO—Flack Bros.
ELKHART—Consumers Coal Co.
Godfrey, B. C. & Sons
Martin & Amidon
Sanders, Jacob P.
ELWOOD—Winters Lumber Co.
EVANSVILLE—Baird, L. M., 220 U Water
Eichel Lime & Stone Co.
Eigenmann, Louis P., 200 L Water
Lensing, H. A., 420 Sycamore
Rechtin, Theo. E., 27 L 7th
Sonntag, G. W., 228 2d av
FAIRMOUNT—Mercer, Brannum & Bevington Co.
FRANKFORT—Kramer Bros. Co.
FORT WAYNE—Gilmartin, Edward
Moellerings, Wm. Sons, 55 Murray
FRANKFORT—Morris, Wm. G. & Bro.
GREENFIELD—Conklin, A. P.
GREENSBURG—Pulse & Porter
HAGERSTOWN—Knapp, C. T.
HAMMOND—Hammond Coal Co.
Hammond Lumber Co.
HUNTINGTON—Bash, C. E. & Co.
Keefer & Bailey
Ohio & Western Lime Co.
INDIANAPOLIS—Aldag & Coonse Co., E Wash'n & Belt
Builders' Supply Corporation, 342 E Washington av
Consolidated Coal & Lime Co., 13 Virginia av
Dalton Lumber Co., 30 S Noble
Dell, Frank M., 730 E Wash'n
Gill & Greenen, 2220 E Wash'n
Indianapolis Coal Co., 113 N Penn.
Indianapolis Mortar & Fuel Co., 13 Virginia av
Keeport, A. B. & Co., 314 W North
Keller, Julius Const. Co., 1100 E Maryland
Malcott Coal & Lime Co., 935 N Davidson
Meyer, A. B. & Co., 17 N Penn
Pierson Building Material Co., 230 E Ohio
Wales Coal & Lime Co., Martindale av., Big Four Ry.
KENDALLVILLE—Deibele, John
KNOX—Long, John W.
KOKOMO—Armstrong, Landon Co. (Cements)
LAFAYETTE—Lyman, Harry B.
LAPORTE—Moore & Richter
Wilson, W. Lumber Co.
LAWRENCEBURG—Wright, J. C., & Sons
LINTON—Greer-Wilkinson Lumber Co.
New Union Lumber Co.
LOGANSPORT—Barnes, Jas. I.
Bligh, M. F.
Dilley, C. L. & Co.
LOVELL—Wilbur Lumber Co.
MADISON—Miller, W. H.
Ross & Kimmell
MARION—Overman & Baldwin
Southall, Geo. A., & Co.
MICHIGAN CITY—Michigan City Lumber & Coal Co.
MITCHELL—Mitchell Lime Co.
MUNCIE—Hamilton, George B.
Muncie Builders' Supply Co.
NEW ALBANY—Slider, Edw. T.
NORTH VERNON—N. V. Lumber Co.
Tripp Bros.
PETERSBURG—Drof, Peter
PLYMOUTH—Linkenhelt, Lawrence
RENESSLAER—Day, Hiram
Renesslaer Lumber Co.
RICHMOND—Farnham, Charles S.
Hackman, Klehforth & Co.
Mather Bros. Co.
ROCHESTER—Barcas, G. F.
ROCKPORT—Lieb & Artman
Partridge, C. M. & W. A.
ROCKVILLE—Dooley & Dooley
Ott Hardware Co.
ROSEDALE—Ferguson & Hunt
SEYMOUR—Mills, Mrs. A. W.
SHELBYVILLE—Parrish, J. O.
SHERIDAN—Palmer, G. H.
SOUTH BEND—Defrees, C. H.
Hoban & Roach
SPICELAND—Fuson, Frank
SULLIVAN—Davis, H. W.
TERRE HAUTE—Austin Hardware Co.
Reiman & Steeg Co., 903 Wabash av
Terre Haute Coal & Lime Co.
UNION CITY—Fisher, S. J.
Knapp Supply Co.
Short, John
VALPARAISO—Dille & Harris
McFerrich, Jas.
VINCENNES—Bosworth, M. A.
McIlvaine, H. R.
WABASH—Smith-Hubbard Lumber Co.

## IOWA.

ACKLEY—Frudden Lumber Co.
BURLINGTON—Bernard Bros. & Mercer
Phillips Lime & Coal Co.
Rand Lumber Co.
CEDAR RAPIDS—Iowa Stone Co.
King's Crown Plaster Co.
CHARITON—Stewart, G. J. & Co.
CHELSEA—Hrabak, Joseph
CHEROKEE—Weart & Lysaght
CLARINDA—Richardson, G. W.
CLINTON—Shoecraft, S. & Son Co., 1st & 5th av
COLUMBUS JUNCTION—Reaney & Ellason
CORNING—Newcomb, W. & Co.
CORYDON—Niday, C. A. & Co.
COUNCIL BLUFFS—Besley Brick Co.
Bluffs City Lumber Co.
Hafer, C.
Hoagland, Geo. A.
Quinn, H. A. Lumber Co.
CRESTON—Green Bay Lumber Co.
Tramp Bros.
DAVENPORT—Abel Lime & Cement Co., 1801 Rockingham road
Builders' Lime & Cement Co.
McCosh & Co., 1010 Harrison
Mueller Lumber Co.
Seiffert, H. O. Lumber Co.
DEEP RIVER—Phelps, Axtell & Co.
DES MOINES—Des Moines Fuel & Lime Co., 511 Mulberry
Des Moines Hard Mortar Co., 406 E Walnut
Dietz & Leveke
Gilchrist, J. K. & W. H., 301 E Locust
Maine, Jas. & Sons Co.
DUBUQUE—Linehan & Molo
Mettel Bros.
FAIRFIELD—Cable, G. W., Jr.
FORT DODGE—Fort Dodge Brick & Tile Works
Mason & O'Connell
FORT MADISON—Atlee, S. & J. C.
Downs, Jno. & Sons
GLENWOOD—Ridgeway, F., & Son
HAMPTON—Moore Bros.
IOWA CITY—Leinbaugh, W. F.
IOWA FALLS—Miller & Foote
KEOKUK—Cameron, Jas. & Sons
Carter, S. C. & S. Co.
McNamara's, J. Sons
Mississippi Coal & Ice Co.
KEOTA—Wright, S. S.
LE MARS—Knorr & Schafer
Moore, M. A. & Co.
Perry, W. H.
LYONS—Foley, T. J.
Joyce Lumber Co.
MAQUOKETA—Hurst, A. & Co.
MARSHALLTOWN — Gregory Coal, Coke & Lime Co.
MASON CITY—Mason City Brick & Tile Co.
Mason City Clay Works
Mason City Lime & Cement Co.

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MONTEZUMA—Moler, Clark & Co.
MUSCATINE—Wallace, R. T. & Son
NEW HAMPTON—Bigelow & Donivan
NEWTON—Jasper Lumber Co.
OSKALOOSA—Gilchrist, M. D. & Co.
Porter, C. M. Lumber Co.
OTTUMWA—Ostdiek, H. B.
Tisdale, F. A. & Co.
SERGEANT BLUFFS—Holman, C. J. & Bro.
SIOUX CITY—Corn Palace Electric Const. Co., Houx, Frank T. Co. 508 Water
McNeil, H. C. & Son
Queal, J. H. & Co., Steuben S 8d
Webb Bros. Co., Pierson S rd
SPENCER—Floete Lumber Co.
Perine, A. C.
STEAMBOAT ROCK—Greef Lbr. Co.
TAMA—Hill, B. F.
TRAER—Baker-Warfield Lumber Co.
WALL LAKE—Peck, W. H. & Co.
WATERLOO—Bryant, W. A. & Sons Co.
Chapman, C. W. Lbr. Co.
Fuoss, J. H.
Waterloo Lbr. Co.
WEBSTER CITY—Young & Clifton
WEST UNION—Graham & Schenck
Hoyt Hardware Co.

## KANSAS.

ATCHISON—Blish-Mize & Silliman Hdw. Co.
Carlisle-Pennel Lumber Co.
Lewis, W. H.
BLUE RAPIDS—Electric Plaster Co.
CHETOPA—Shields, J. F.
ELLINWOOD—Chatten, S. H.
ELLSWORTH—Lake Superior Lumber Co.
EMPORIA—Emporia Lumber & Coal Co.
Evans, J. E.
Kirkwood, J. G.
Watson-Ballweg Lbr. Co.
FORT SCOTT—Brown Lumber Co.
Fort Scott Hydraulic Cement Co.
Kansas City & Fort Scott Cement Co.
FULTON—Fulton Lumber Co.
GALVA—Galva Lumber Co.
GARFIELD—Waymire, N. O.
GODDARD—Pond, W. M. & Co.
HANOVER—Thiele, E. W. & Bro.
HAYS—Schwaller, C. & Son
HOLTON—Brown & Hedge
HUMBOLDT—Osborn, J. H. & Son
HUTCHINSON—Hutchinson Lbr. & Planing Kansas Lumber Co. Mill Co.
White, L. J. Lbr. Co.
IOLA—Klein, Paul
Northrup Lbr. Co.
JUNCTION CITY—Brown, Geo. T.
Geary County Lumber Co.
Moses, Geo. C.
KANSAS CITY—Armourdale Lumber Co.
Badger Lumber Co.
Frankenfield Sand & Fuel Co., Central av
James, A. R. & Son, 1017 N. 4th
Wyandotte Coal & Lime Co., 553 Minn. av
LAWRENCE—Achning, Chas.
American Cement Plaster Co.
Lawrence Vitrified Brick & Tile Co.
LEAVENWORTH—Crancer, J. W. & Co.
Geiger, A. M.
McDonald, P. J.
LYONS—Taylor & Sons
McPHERSON—Lake Superior Lumber Co.
Sudendorf, H. H.
MANHATTAN—Higinbotham, Scott N.
MARION—Newton Lumber Co.
NESS CITY—Daniel, F. W.
NEWTON—Newton Lumber Co.
Swartz, S. M. Lumber Co.
OBERLIN—Foster Lumber Co.
OLATHE—Rheem Lumber Co.
OTTAWA—Halloren, J., 402 S Main
Harris, M. R., 114 W 4th
Rohrbaugh & Co.
PARSONS—Clark & Bates Lumber Co.
PEABODY—Davison & Co.
PHILLIPSBURG—Smith. Theo. & Son
PITTSBURG—Jackson-Walker Coal & Material Co.
Pittsburg Building Material Co.
Pittsburg Lime & Cement Co.
Pittsburg Lumber Co.
Union Lime & Cement Co.
SALINA—Eberhardt Lumber Co.
Leidigh & Havens Lumber Co.
Sudendorf, H. H.
STAFFORD—Stafford Lumber Co.
STERLING—Fair, D. J.
TOPEKA—Thomas, J. Lumber Co.
Thomas, J. Lumber Co.
Thomas, Jonathan & Son
VALLEY FALLS—Legler, Mell & Son
WALTON—Moorhead, A. R.
WAVERLY—Star Grain & Lumber Co.
WICHITA—Jackson-Walker Coal & Material Co.
Stocker, O. B., 143 N Water
Turner, J. H.

## KENTUCKY.

ASHLAND—Beckette, O. F. L. & Co.
Gates Brick Co.
Strack, E. W.
Van Sant, Kitchen & Co.
BOWLING GREEN—Phillips, Aaron
COVINGTON—Covington Coal & Sand Co.
Kenton Supply Co.
Spinks, T. W.
DAYTON—Hunter, M. R., Sr.
Walter Bros.
FIREBRICK—Portsmouth Granite Brick Co.
FRANKFORT—Congleton, T. J. & Bro.
FULTON—Bransford, G. H. & Son
GLASGOW—Dickinson Bros.
HENDERSON—Blackwell, P. A. & Co.
HODGENSVILLE—Read Mercantile Co.
HOPKINSVILLE—Dalton Bros.
Dalton, H. M. Stone Co.
LEBANON—Johnston & Casky
LEXINGTON—Des Cognets, Louis & Co.
Fayette Brick & Supply Co.
Frazier, J. W. & Co.
Graves, Budford A.
Hendricks-Moore-Young Co.
Justice, F. T. & Co.
LONDON—London Mfg. Co.
LOUISVILLE—Bannon, P. Sewer Pipe Co., 508 W Jefferson
Kentucky Wall Plaster Co., Fulton, nr 1st
Louisville Cement Co. (Cement Mfrs), 331 W
Southern Wall Plaster Co.
Speed, J. B. & Co., 331 W Main
Tyler, Owen
MADISONVILLE—Hall, W. L.
Ruby Lumber Co.
MAYSVILLE—Matthews, W. B. & Co.
NEWPORT—Allen, M. M., 634 Monmouth
Dauzenberg, Joseph
Spinks, Charles
PADUCAH—Katterjohn, F. W. Cons. Co.
Langstaff-Orm Mfg. Co.
SHELBYVILLE—Gruber, L. H. & Sons
Hall & Chowning
VERSAILLES—Berryman, C. M.
Woolridge Bros.
WARSAW—McDanells, J. H. Sons Co.

## LOUISIANA.

BUNKIE—Haas, W. D. & Co.
DONALDSONVILLE—Lemann, B. & Bro.
LAFAYETTE—Mouton, A. E.
Vordenbauman Lumber Co.
MONROE—Monroe Grocer Co.
Monroe Hardware Co.
Southern Grocer Co.
MORGAN CITY—Dalton, Jno.
Loeb, Leopold & Sons Co.
NEW IBERIA—Dreyfus, Jules
NEW ORLEANS—Builders' Supply Co., 2021 Magazine
Carolina Portland Cement Co., 2029 Calliope
Clarke, J. J. Co., 1111 Julia
Cleary, T. B., 800 S Carrolton av
Demoruelle, Jas. & Sons, 602 N Basin
Ford, F. Codman, 304 Baronne
Garnier, Emile, 1601 N Robertson
Hiller, Alfred Co., 534 Magazine
Jahncke, Fritz, 814 Howard av
Judlin, Peter, 2311 N Rampart
Kearny, J. Watts & Sons, 423 Gravier
Kracke & Flanders, 630 Gravier
Louisiana Lime Co., Hennen bldg
Prados, Henry J.
River Sand & Gravel Co., 816 Howard
Roca, Joseph V., 604 N Robertson
Thompson, Edward Co., 530 Natchez
Tupper, Allen, 713 Union
Woodward, Wight & Co. (Ltd.), 406 Canal
Zimmerman's Building Specialties Co. (Ltd.), 2131 Magazine
SHREVEPORT—Allen Mfg. Co.
Ardis & Co.
Crawford, Jenkins & Booth
Henderson, W. K. Iron Works Supply Co.
Hicks Co. (Ltd.), 117 Texas
Lee Hardware Co.
Taylor, W. F. Co.
Vordenbauman-Eastham Co.
THIBODAUX—Southern Investment Co.

## MAINE.

AUBURN—Bearce, Geo. B. & Son
AUGUSTA—Purinton Bros. Co.
BANGOR—Cassidy, Jno. & Son
Dunning, R. B. & Co.
Hopkins, A. R. Co.
Lowell & Engel
Rice & Miller
BATH—Nichols-Read Co.
BELFAST—Cooper & Co.
BIDDEFORD—Andrews & Horrigan Co.
Banks, C. K.
BRUNSWICK—Hacker, C. E.
CALAIS—Eaton, H. B. & Co.
CAMDEN—Camden Lumber Co.
CUMBERLAND MILLS—Goff, E. W.
FAIRFIELD—Totman, Arthur H.
FOXCROFT—Gilman, A. W. & Co.
GARDINER—Decker & Day Hdw. & Coal Co.
Harrington, G. H.
HALLOWELL—Wingate, Frank S.
HARRISON—Caswell, H. H.
Jordan Bros.
HOULTON—Madigan & Madigan
Merritt, E. & Sons
KENNEBUNK—Gilpatrick, Thomas L.
LEWISTON—Hall & Knight Hardware Co.
Hayes, J. L. & Co., 282 Main
MECHANIC FALLS—Penney, J. W. & Sons Co.
PORTLAND—Chase, Charles S. Co., 5 Com'l
Cox & Ward Co., 169 Forest av Wharf
Libby, E. & Sons Co., 76 Pearl
Lord Bros. Co., 1 Central Wharf
Portland Pipe Co.
Portland Sand & Gravel Co.
Redlon, N. E. Co., 226 Federal
ROCKLAND—Farrand, Spear & Co.
Glover, W. H. Co.
Spear, F. R.
SANFORD—Moulton Bros.
WATERVILLE—Flood, Geo. S. & Co.
Purinton, H. Co.

## MARYLAND.

ANNAPOLIS—Martin, C. W. & Co.
Parlett & Parlett
BALTIMORE—Brady, Edward & Son, 900 S Caroline
Bullock, Jno. S. & Son, 510 Colvin
Clarke, Wm. Wirt & Son, Monument & Cook, Henry E., 2704 N Calvert Forest
Elenbrok, Frederick, 2104 Fkd av
Filbert Paving & Const. Co., 1210 Block
Gault, Wm. A. & Son, 9 E Lexington
Gegner, Geo. A., 3243 Eastern av ext
Gore, M. F., 202 E 22d, N
Green, Robt. S., 853 Fkd. av ext
Hay, Geo. M., 14 N Greene
Hudson Cement & Supply Co., 4 E Lex.
Lewis, Frank I., 910 W Pratt
Maryland Lime & Cement Co. (All Kinds), 421 S Central av
National Building Supply Co., 418 E Pratt
Sack, Geo. & Son, Lauraville
Slingluff Supply Co.
Spengemann & Bro., 304 N Central av
Standard Lime & Stone Co., Equitable bldg
Sunner & Gerlach, 1401 N Register
Thomas, Jos. & Son, 820 Leadenhall
Walbrook Coal & Supply Co., 2634 W North av
Warren, Lawrence J., 29 S Front
Washington Building Lime Co., Equitable bldg.
BEL AIR—McComas Bros.
BROOKLYN—Geis, Jno. H. & Co.
CHESAPEAKE CITY—Woolley & Bennett
CHESTERTOWN—Bacchus, J. D.
CUMBERLAND — Cumberland Hydraulic Cement & Mfg. Co.
Cumberland & Potomac Cement Co.
EASTON—Dixon, Robert B. & Co.
ELLICOTT CITY—Talbott, E. A.
FREDERICK—Bowers, W. D. Lumber Co.
Markell & Ford
HAGERSTOWN—Cushwa, Victor & Sons
HANCOCK—Bridges, J. T. & Co.
HYATTSVILLE—Carr, C. F. & Bro.
Magruder, W. P.
LAPIDUM—McGonigall, M. F.
LAUREL—Shaffer, C. F.
Waters, Geo. W.
ST. MICHAELS—Dodson, E. N.
SECURITY—Security Cement & Lime Co.
WILLIAMSPORT—Cushwa, Victor & Sons

## MASSACHUSETTS.

ADAMS—N. E. Lime Co.
ANDOVER—Hardy & Cole
ARLINGTON—Pierce & Winn Co.
ATHOL—Fay, Henrie C.
Paige, C. F. & Co.
ATTLEBORO—Carpenter Coal & Lumber Co.
BEVERLY—Pickett Coal Co.
BOSTON—Berry & Ferguson, 159 Devonshire
Bryant, Edw., 30 Kilby
Carter, W. Thomas, 30 Kilby
Coombs, Frank E., Old South bldg

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Curtis & Pope Lumber Co., 774 Albany
Eastern Clay Goods Co., 79 Milk
Fiske & Company (Inc.), 25 Arch
Ham & Carter, 82 Clifton, Dorchester
Hannon, F. J., 166 Devonshire
Lash, A. F., Co., 25 D
Lewis, D. W. Co., 24 Milk
Mitchell, W. S., 10 Willow, W. R.
Mullen, W. B., 95 Milk
New England Adamant Co., 325 Medford
Norcross, W. C. Co., 486 Albany
Nute, A. T. & Co., 380 W 1st, S. B.
O'Connell, J. P. & Co., 95 Milk
Portland Stone Ware Co., 49 Federal
Rockland-Rockport Lime Co., 24 Milk
Spiers-Fish Brick Co., 79 Milk
Stetson, Cutler & Co. (Lime), 70 Kilby
United Building Material Co., 101 Milk
Waldo Bros., 102 Milk
Warner, Chas. Co. (Wholesale), 161 Devonshire
Weston, W. M. Co., 120 Milk
Windsor Cement Co.

BRADFORD—Taylor, Goodwin Co.
BRIDGEWATER—Keith, Sumner
BROCKTON—Mitchell, Isam & Co.
CAMBRIDGE—Clark Bros., 2464 Mass. av.
CAMBRIDGEPORT—(See Cambridge)
CHELSEA—Phillips & Hodgdon
Tukey, S. S. & Co.
CHICOPEE—Rourke, Patrick
CLINTON—Frazer, C. & Sons
Fuller, Wm. A.
DEDHAM—Fisher-Churchill Co.
EAST BRIDGEWATER—Dean, Joshua (Est. of)
EAST LONG MEADOW—Whitaker, F. H.
EAST WHITMAN—Cook, R. W.
EVERETT—Green & Harrington
Murphy, D. P.
FALL RIVER—Borden, Guiney & Kendall
Borden & Remington
Prosser, Wm. & Son, 943 Pleasant
Staples Coal Co., 404 Davol
Wilson, Jas. H., 2000 N. Main
FITCHBURG—Dillon, D. M.
Fitchburg Hardware Co.
FRANKLIN—Metcalf, O. F. & Sons
Ray, Jas. F.
GARDNER—Curtis, H. O.
Davis, J. Walter
Favor, M. M.
GLOUCESTER—Griffin & Co.
Nauss, L. B. & Sons
GREENFIELD—Lamb Bros.
HARWICH—Moody, J. M.
HAVERHILL—Chase, D. D. Lumber Co.
Taylor-Goodwin Co.
HINGHAM—Kimball, Geo. E.
Whitney, Everett E.
HOLYOKE—Burnham, C. G., 127 Main
Landers, D. J.
Lynch Bros. Brick Co.
O'Connell's, Daniel Sons
Prentiss, Brooks & Co., 56 Main
HUDSON—Jones, E. A.
Robertson & Larkin
HYANNIS—Crocker, T. & Sons
Sears, J. K. & B. & Co.
HYDE PARK—Darling, F. W. Co.
IPSWICH—Glover, John S.
LAWRENCE—Gage, G. L., 594 Essex
Lawrence Lumber Co.
O'Mahoney, M., 8 West
Runnells, O. E., 8 Jackson
Theberge, Bros., 170 Valey
Treat Hdw. & Supply Co., 584 Essex
LEE—Heaphy, Wm. A.
LOWELL—Barton, Cyrus
Bennett, Jno. C., 269 Dutton
Cawley, Edward, 131 Central
Cogger, P.
Conners Bros. Co.
Livingstone Grain Co., 15 Thorndike
Mullin, Jos., 953 Gorham
Sherman, Moore & Co.
Staples Bros. Co. (Sewer Pipe), School n
Sullivan, D. T., 45 Perry Gas Works
Wilson, E. A. & Co.
LUDLOW—Burr Co.
LYNN—Lamper, J. B. & W. A., ft of Pleasant
Whittredge & Co., 2 sea av
MARBLEHEAD—Martin, J. S. & Co.
MALDEN—Kaulback, W. S.
Locke Coal Co.
Neville, Thos. J.
Robinson, J. H. Co.
MANSFIELD—King, A. D.
MEDFORD—Cowin, J. N. & Co.
Highland Coal Co.
MELROSE—Benson Coal Co.
Goss, O. B. & F. H.
MELROSE HIGHLANDS—Hellen, S. H.
MIDDLEBORO—Cushing, M. H. Co.
MILFORD—Field, Z. C.
Curtis, Harold M. Coal Co.
NANTUCKET—Killeen, John
Swain, William T. (Est. of)
NATICK—Robinson & Jones Co.
Whitney, E. & Co.
NEPONSET—(See Boston)
NEW BEDFORD—Borden, H. T. & Co.
Greene & Wood
Paine, S. S. & Bro.
Paisler, Chas. S.
NEWTONVILLE—Nonantum Coal Co.
NORTH ABINGTON—Reed, A. B.
NORTH ADAMS—Burlingame & Darbys Co.
Sykes Coal & Grain Co.
NORTHAMPTON—Bailey, W. A.
Matthews, A. C.
Sullivan, J. A.
ORANGE—Orange Hdw. Co.
Potter, A. D.
PALMER—Flynt Building & Construction Co.
PEABODY—Trask, J. Arthur
PITTSFIELD—Gamwell, C. C., 65 Columbus av
Howard & Morrow, 59 North
PLYMOUTH—Atwood, Anthony
Sampson, Ernest L.
PROVINCETOWN—Dyer, B. H. & Co.
Lewis & Brown
QUINCY—Crane, F. H. & Son
Richards, A. J. & Son
READING—Bancroft, Wendell & Co.
ROCKLAND—Culver, A. Co.
SALEM—Langmaid, J. P. & Sons
Pickering, G. W.
SHELBURNE FALLS—Newell, H. & Co.
SOMERVILLE—Highland Coal Co.
Sparrow, E. S. & Co.
SOUTH FRAMINGTON—Fales, A. Sons Co.
SPRINGFIELD—Bartlett Bros.
McKenzie, Wm. D., 23 Yale
Noble, Burton E.
Puffer, H. C. Co., 194 Lyman
Shea, T.
Springfield Contractors' Supply Co.
Viets, S. D. Co., 25 Cypress
Wilder, John W., 129 State
TAUNTON—Sanders, C. V. & Co.
Staples Coal Co., 50 City sq
TURNERS FALLS—Webster, F. I.
UXBRIDGE—Harris, William M.
WALTHAM—Buttrick Lumber Co.
Carney, J. Coal Co., 70 Calvary
Waltham Coal Co., 663 Main
WAREHAM—Gurney, Ansel S. & Co.
WATERTOWN—Pevear, W. H. & Co., 5 Spring
WESTFIELD—Gladwin, L. Jr., 224 Elm
Mahoney, P. J., 46 Orange
WEST NEWTON—Eddy, C. F. Co.
WEST STOCKBRIDGE—New England Lime
Tobey Bros. Co.
WEYMOUTH—Rhines, J. B. & Co.
Sanborn, W. F. & Co.
WINCHESTER—Blanchard, George W., &
WOBURN—Barker Lumber Co. Co.
Wyman, R. B.
WORCESTER—Gough, H. D. & Co.
Marsh, B. F., 24 Maywood
Powers, Frank E., 20 Southgate
Smith-Green Co.
Streeter, E. S. & Sons
Wilson & Holden, 154 Main

## MICHIGAN.

ADRIAN—Gimbert, Thomas
Matthes Bros.
Stevenson, F. A. & Son
ALBION—Gibbs & Sanders
ALLEGAN—Croker & Knapp
Green, F. H.
ALMONT—Hart & Sullivan
ALPENA—Alpena Coal Co.
Collins, Richard
ANN ARBOR—Sweet, G. W.
Ann Arbor Brick Co.
Rohde, W. H. L.
Wood, Frank
AUGUSTA—Marvin, H. M.
BAD AXE—Carey, W. H. & Co.
BANGOR—Broadwell, William M.
BATTLE CREEK—Barney, Fred W.
Dibble & Latta
Ornamental Concrete Stone Co.
Kirkpatrick, W. J.
Rupert & Morgan
Stiles, I. H.
BAY CITY—Babb, W. J.
Boutell Bros. & Co.
Central Coal & Mining Co.
Clute, C. M.
Williams, A. S. & Co.
BAY SHORE—Elk Cement & Lime Co.
BELLEVILLE—Miller, Frank
Wallace, W. A.
BENTON HARBOR—Robbins, W. P.
BESSEMER—Hanson, Cornelius
BIG RAPIDS—Sloss, William J.
BRIGHTON—Hyne, F. T. & Co.
CADILLAC—Cobbs & Mitchell
Manktelow, C. J.
Wilcox Bros.
CALUMET—Armstrong & Thielman Lumber
CARO—Gas City Grain Co. Co.
Van Tine, G. N.
CARSON CITY—Rockafellow Grain Co.
CASSOPOLIS—Hayden, W. B. & Son
COLDWATER—Pollock, S. & Son
COLEMAN—Simons, T. B. Mercantile Co.
CROSWELL—Helm, Paul
Quail, D. & Son
DEARBORN—Wallace, James D. (Est. of) (Also Lumber)
DETROIT—Bartlett Co., Hammond bldg
Boomer, I. E., Forest av, E. & D., G. H. & M. Ry
Brown & Brown Coal Co., 294 Woodward av
Calvert's, J. Sons, 145 Griswold
City Concrete & Coal Co., 1250 Jefferson av
Cooper, A. & W., 1316 Gratiot av
Dickinson, H. H., 1125 Wabash av
Fairview Coal & Supply Co., Kercheval & Terminal Ry
Flood, Jas. J., Bank Chambers
Hall & Lyman, Chamber of Commerce bldg
Heames, W. E. & Co., 75 Woodbridge
Holmes, F. B. & Co., Hammond bldg
Houghten, Henry, Hammond bldg
Kennedy, J. D. & Co., Hammond bldg
Lane, Chas. F., 2170 Jefferson av
Little, Chas. H. Co., Peninsular bldg
McKerchey, John M. Co., Grummond bldg
Meyer, R. M., River rd & River Rouge
Michigan Builders Supply Co., Forest & Dequin
Noble & Co., ft. of First
Sibley, F. B. & Co., 39 Pen Bank
Steffes, M. & Son, Dix & M. C. R. R.
Stevens, F. B., 3d & Larned
Steinheiser, Christian P., 763 Gratiot
Thomas Bros. & Co., Hammond bldg
Vail, Samuel J. Co., Hammond bldg
DOWAGIAC—Bishop Hardware Co.
Judd, M. & Son
Lindsly, J. A. & Co.
Schmitt Bros.
Thickston & Lindsley
DRYDEN—Booth, Robert
EATON RAPIDS—Webster, H. P. & Son
ELK RAPIDS—Elk Cement & Lime Co.
ESCANABA—Nee, Coleman
FAIR GROVE—Richardson, F. H. & Co.
FENNVILLE—Dickinson & Raymond
FENTON—Potter, Burdick & Son
FLINT—Dain & Vermilya
Doyle, Thomas
Flint Coal Co.
Matthewson, Fred G.
Randall Lumber & Coal Co.
Switzer Bros.
FOWLERVILLE—Rounsville, F. G.
FREEPORT—Fox, W. & Co.
GRAND LEDGE—Astley, T. W.
Doty & Doty
GRAND RAPIDS—Battjes Fuel & Building
Boer, James Material Co.
Himes, Albert Coal Co.
Home Fuel Co.
Hulst & Van Heulen Fuel Co.
Hyde, Albert, 860 Madison
Knowlson, A. B., under National City
Mol, James, 101 W Leonard Bank
Morman, S. A. & Co.
Superior Lime Co.
Wykes-Schroeder Co.
HANCOCK—Stringer, J. S.
HILLSDALE—Aldrich, G. A. & Son
HOLLY—Hudson, M. M.
HOUGHTON—Van Orden, Matthew Co.
HUDSONVILLE—Hughes, B. & T. (Also Saw
IMLAY CITY—Walker, Walker & Co. Mill)
IONIA—Page, W. C. & Co.
IRON MOUNTAIN—Holfeltz, J. R. Co.
ISHPEMING—Consolidated Fuel & Lbr. Co.
Losselyong Bros.
JACKSON—Bartlett, J. E. Co.
Howind, C. A.
Lake, Ulricksen Co.
Wilcox, Stanley
KALAMAZOO—Darling, Wm. P.
Dewing & Sons
Mershon, Bartlett Co.
Molhoek, Peter
North & Conn Lumber Co.
Sales, James A.
LAINGSBURG—Sharpe, C. D.
LAKEVIEW—Macomber & Bale
LANSING—Lacy, P. E. & Co.
Lansing Artificial Stone Co.

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LAPEER—Cutting, Frank R.
King, Robert Lumber Co.
LUDINGTON—Kieswalter, John
MANCELONA—Mancelona Mfg. Co.
MANCHESTER—Kelly, James
MANISTEE—Buckley & Douglass Lumber Co.
Duncan, J. W.
Sands, Louis
MANISTIQUE—White Marble Lime Co.
MANTON—Meyer Hdw. Co.
MARLETTE—Wilson, H. W.
MARQUETTE—French, George E.
MARSHALL—Blanchard & Bull
MASON—Michelson, Carl P.
MEMPHIS—Memphis Roller Flouring Mills
MENOMONEE—Lyon Bros. & Co.
Nowack, F. C.
MILFORD—Cate & Son
MONROE—Hurd, Geo. R. Co.
Radtke, August
MOUNT CLEMENS—Paganetti, John S.
Ullrich, R. C. Hardware Co.
MUIR—Hawley, West & Co.
MUSKEGON—Holton Brick Co.
Kanitz, L. H.
NEW BALTIMORE—Baker, William
NILES—Earl, B. F.
Smith, C. R.
Smith, W. Hillis
OTSEGO—Siple, George H. & Co.
OWOSSO—Sturtevant & Blood
Todd, Albert & Co.
PAW PAW—Waters, H. C. & Co.
PLAINWELL—Bush & Granger
Wilson & Man
PONTIAC—Richmond & Baker Co.
PORT HURON—Cruickshank, A. G.
Jarvis Bros.
Jenks, Taylor, Howard & Co.
PORTLAND—Estep, Chas. A.
QUINCY—Kinyon, E. H. & Son
READING—Hartwell & Doig
REED CITY—Stoddard, W. A.
Welsh Mfg. Co.
SAGINAW—Morley, Ewen & Co., E Side
Remer Bros.
ST. CLAIR—Belknap & Phillips
ST. JOHNS—Hicks, John C.
ST. JOSEPH—Wallace, John & Sons
SALINE—Ford, E. W. & Son
SOUTH ROCKWOOD—Strong, John
SPRINGPORT—Hoag, R. B. & Son
STANTON—Pierson, John W. S. & Co.
TECUMSEH—Slayton & Son
THREE RIVERS—Case, F. M. & Co.
Griffith, John
TRAVERSE CITY—Hannah & Lay Mercantile Co.
TRENTON—Mans, Nicholas A.
VASSAR—Miller, Frank
WALDRON—Abbaduska & Son
WAYNE—Wallace, John B.
WEST BAY CITY—Emery, John H. & Co.
WHITE PIGEON—Driesbach, F. C.
WILLIAMSTON—Dennis, M. A.
WYANDOTTE—Eberts Bros. Co.
Wayman Coal & Ice Co.
YALE—Wharton & Co.
YPSILANTI—Thompson, O. E. & Sons
Webster Bros. & Sons
ZEELAND—Zeeland Brick Co.

## MINNESOTA.

ADRIAN—Becker, J. C.
Shull, J. & W. C.
ALEXANDER—Page, L. A. Lumber Co.
ANOKA—Chesley, Frank A.
McCauley, George A.
BIWABIK—Colvin-Robb Lumber Co.
BLOOMING PRAIRIE—Solberg, A. Lumber Co.
CLOQUET—Fish, L. A. & Co.
DULUTH—Cutler, D. G. & Co.
Dunlop-Moore Co.
Paine & Nixon Co.
Standard Salt & Lime Co.
Thomson & Stewart
FERGUS FALLS—Barbeau, Dave
Gray, F. H.
LITCHFIELD—Esbjornson, John
MADELIA—Gove, E. L.
MANKATO—Coughlan, T. R. Co.
Fowler & Pay
Mankato Lime & Stone Co.
MILAN—Anderson, T.
Christensen Bros.
MINNEAPOLIS—Acme Cement Plaster Co.
Arones & Fisher
Carney Bros.
Dana Warehouse Co.
Fowler & Pay
Guarantee Cement & Stone Co.
Heartel, G. A.
Landers, Morrison & Christensen Co.
Minneapolis Lime & Cement Co.
Northfield, L. W. Co.
Northwestern Lime Co.
Northwestern States Portland Cement Co.
Southwestern States Portland Cement Co.
Superior Mfg. Co.
Union Railway Storage Co.
United States Gypsum Co.
**UNIVERSAL PORTLAND CE**ment Co. (See adv. index, end of book)
MOORHEAD—Moorhead Brick Co.
MORA—McIrhargey, S. D.
NEW ULM—Bingham Bros.
OWATONNA—Laird, Norton Yards
Thompson, J. M. & Son, Hardware Co.
PELICAN RAPIDS—Stenerson Bros.
RED WING—Lillyblad, Gustave
ROCHESTER—Dodge Lumber & Fuel Co.
ROLLING STONE—Schuh Bros.
ST. CLOUD—Gruber & Co.
ST. PAUL—Alpena Portland Cement Co.
Bell, D. L. (Mfrs.)
Capitol City Lime & Cement Co.
Dana Warehouse Co.
Grant, I. A., South St. Paul
Lott, K. F.
Northwestern Lime Co.
Pearce, J. F. & Son
St. Paul Brick Co.
St. Paul Lime & Cement Co.
Shakopee Cement & Lime Mfg. Co.
Spates, S. P. & Co.
West St. Paul Cement Stone Mfg. Co.
Wilson, O. G.
SAUK CENTER—Ingram Lumber Co.
SHAKOPEE—Schroeder Brick & Lime Mfg.
STILLWATER—Consolidated Lumber Co. Co.
Kilty, Jno. J.
WARREN—Lundgren, August
Robertson Lumber Co.
St. Hilaire Retail Lumber Co.
WINDOM—Strunk, Sherwin Co.
WINONA—Hodges, A. W.
O'Dea, John
Standard Lumber Co.
Stevenson Coal Co.
Willis, H. J.

## MISSISSIPPI.

BILOXI—Rosell, T. J. Mfg. Co.
GREENVILLE—Neal-Dolph Lumber Co.
GREENWOOD—Barrett, A. H. & Son
GULFPORT—Builders' Supply Co.
JACKSON—Jackson Lumber Co.
Leland Lumber Co.
Morrison Bros.
MERIDIAN—Hester Coal Co.
VICKSBURG—Beck, Jno. W.
Crook, R. L. & Co.
Williams, P. P. Co.
Worrell, W. O. & Co., N Wash'n
Wright Bros.
YAZOO CITY—Powell, J. F.
Quekemeyer, Geo. H.

## MISSOURI.

AFFTON—Trampe, Henry
BETHANY—Cadle Lumber Co.
Miner & Frees
BEVIER—Rowland Bros.
BOONVILLE—Burger, Wm. & Son
Meierhoffer, Chas.
Roberts, E. H., Jr.
BROOKFIELD—Bettleheim, A. E. Co.
BUTLER—Logan-Moore Lumber Co.
Wyatt, H. C. & Son
CALIFORNIA—Mengel, W. H.
CARTHAGE—Harrison, J. F.
Home Lumber Co.
Thomas, B. F.
DE SOTO—Herman, Otto
ELDORADO SPRINGS—Logan-Moore Lumber
FARMINGTON—Lang & Bro. Co
Tetley-Klein Lumber Co.
FAYETTE—Lacrosse Lumber Co.
FREDERICKTOWN—Fredericktown Brick Co.
Fredericktown Lumber Co.
FULTON—Callaway Hardware Co.
GALLATIN—Ballew, T. W.
HANNIBAL—Hannibal Lime Co.
HOLDEN—Starkey, I. (Est. of)
JEFFERSON CITY—Hogg, Edw. R., Lumber
JOPLIN—Chickering, H. L. & C. L. Co
KANSAS CITY—Brockett, C. A. Cement Co. (Lime, Cement & Plaster)
Bryant Supply Co., Bryant bldg.
Builders' Material Supply Co., Scarritt bldg
Builders' Sand Co.
Creel, T. C. Lumber Co., 5th c Central
Deatherage Lumber Co., 1600 Indiana av
Dickey, W. S. Clay Mfg. Co., N. Y. Life bldg
Eadie Building Supply Co.
Fellows Supply Co., Dwight bldg.
Fort Scott Cement Association
Halliwell Cement Co. (Cement Mfrs.), 312 E 9th
International Trading Co., New England
Iola Portland Cement Co. Life bldg.
Kansas City & Fort Scott Cement Co. (Cement Mfrs.), 121 W 8th
Kansas City Portland Cement Co.
Lynch-Watkins Lime & Cement Co., 1900 McKinney, Howard C. Walnut
Merrill, J. W.
Missouri Lime & Cement Co., 203 Commerce bldg.
Portland Cement Co.
Roll Coal & Lime Co., 1929 Main
Westport Lime & Cement Co.
LEBANON—Lingsweller, J. G.
LEXINGTON—Moorhead, J. R.
LOUISIANA—La Crosse Lumber Co.
LUTESVILLE—Clark, H. A.
MARSHALL—Page, E. R.
Rose Bros.
NEOSHO—Briggs Hardware Co.
POPLAR BLUFF—Reynolds, Jesse
ST. JOSEPH—Badger Lumber Co., 6th & Penn
Biles, N. D. L. & Co., 1422 S 6th
Burgess-Frazer Iron & Hardware Co.
Dougherty & Moss Lumber Co., 10th & Mitchell av
Nold, C. H. Lumber Co., 1212 N 4th
Nowland, F.
Preston & Newcomb, 5th & Patee
Ray, E. W. & Son, 802 S 7th
ST. LOUIS—Acme Cement Plaster Co., 904 Olive
Campbell-Crouch Lime & Cement Co., Wright bldg
Carthage Marble & White Lime Co., Chouteau & Vandeventer avs
Contracting & Supply Co. of St. Louis, Odd Fellows bldg
Glencoe Lime & Cement Co., Syndicate bldg
Hunkins-Willis Lime & Cement Co.
Meramec Portland Cement & Material Co., Nat'l Bank of Commerce
Ste. Genevieve Lime Co., Mermod & Jaccard bldg
Union Sand & Material Co., Liggett bldg
SEDALIA—Babcock Lumber Co.
Johns, S. P. & Sons
Looney & Bloess Lumber Co.
Missouri Central Lumber Co.
Sturges Lumber Co.
SPRINGFIELD—Marblehead Lime Co.
Rogers & Baldwin Hdw. Co.
Springfield Planing Mill & Lumber Co.
TIPTON—Ferguson, Wm. M.
Schmidt, Wm., & Co.
TRENTON—Trenton Lumber Co.
UNION—Reinhard, Chas. P.
WEBB CITY—Matthews, C. E.
WENTZVILLE—Michel, Henry
WEST PLAINS—Holt, S. J. Lumber Co.
WINDSOR—Arnold, Hayden & McKee

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
Stagg, J. P.
BILLINGS—Allen, H. M. & Co.
Babcock, A. L. Hardware Co.
BOZEMAN—Brown, J. N.
BUTTE—Anaconda Copper Mining Co.
Butte Sewer Pipe & Tile Co.
Citizens' Coal Co.
DILLION—Dillon Lumber Co.
GREAT FALLS—Graham & Ross
Great Falls Lumber Co.
Holter-Boorman Lumber Co.
Murphy-MacClay Hardware Co.
HELENA—Holter, A. M. Hdw. Co., 113 N Main
Prescott, A. K.
Sanford & Evans

## NEBRASKA.

BEATRICE—Beatrice Brick Works
Von Steen, J. H. (Wholesale)
Wiebe, J. G.
BLAIR—McQuarrie, John
FREMONT—Nye-Schneider-Fowler Co.
GOTHENBURG—West, E. G.
GRAND ISLAND—Harrison, W. H.
Schmidt, Louis
HEBRON—Young, Knode & Co.
HUMBOLDT—Philpot & Tanner
KEARNEY—Gilcrest, F. H. Lumber Co.
Seeley, C. S.
KENESAW—Kenesaw Lumber Co.
LINCOLN—Brown, F. W. Lumber Co.
Dierk's Lumber & Coal Co.
Searle & Chapin Lumber Co.
Whitebreast Coal & Lumber Co.
Young, R. S. Building Supply Co.

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LOUP CITY—Ohlsen Bros.
NEBRASKA CITY—Bickel, J. R.
Bischof, Wm.
NELIGH—Brenton, T. H.
NORFOLK—Chicago Lumber Co.
Edwards & Bradford Lumber Co.
Mittlestadt, L. C.
NORTH PLATTE—Iddings, C. F.
OMAHA—Adams & Kelly Co., 1529 Sherman
Bullard, Haughland & Benedict, Izard c 20th
Cady, H. F. Lumber Co., 6th & Douglas
Disbrow, M. A. & Co., 1201 Nicholas
Guion & Ledwich, 1024 N 18th
Hampton Lumber Co., 1242 S 16th
Hoagland, G. A., c 9th & Douglass
Hull, C. W. Co., Izard, c 20th
Neb. Coal & Lime Co., 109 S 15th
Sunderland Bros. Co.
Wagner & Buchanan, 23d & Paul
SOUTH OMAHA—Bradford-Kennedy Co.
Bradford, Louis Lumber Co.
Howland, E. H. Lumber & Coal Co.
Munshaw, Ed. & Co.
Watkins, J. B. & Co.
TEKAMAH—Houston, E. C. & Co.

## NEW HAMPSHIRE.

ASHLAND—Merrill, D. C.
BERLIN—Rowell, H. C.
BRISTOL—Merrill, C. N. & Son
CLAREMONT—Boynton & Ellis
Osgood, E. B.
CONCORD—Dickerman & Co.
Woodworth & Co.
EXETER—Dow, A. N.
Smith, L. B. & Son
FRANKLIN—Stevens, C. P.
KEENE—Knowlton & Stone
Spencer Hardware Co
LACONIA—Guay & Wallace
Smith, John P. Co.
LANCASTER—Moore, L. F. (Heirs of)
Smith, Frank & Co.
LISBON—Parker & Young Co.
MANCHESTER—Head & Dowst Co.
Merrill, Clarence R.
Parker, Henry W.
MEREDITH—Bartlett & Smith
MILFORD—Kittredge, Edward G.
Winslow, W. L.
NASHAU—Willard, George A.
NEWPORT—Rowell, F. P.
NORTH CONWAY—Gibson, J. L.
PENACOOK—Rolfe, C. M. & A. W.
PORTSMOUTH—Broughton, J. H.
Walker, C. E. & Co.
TROY—Kimball, E. P. & Son

## NEW JERSEY.

ASBURY PARK—Buchanon & Smock Lbr. Co.
Consumers' Coal & Supply Co.
Farmer, Geo. P. Coal & Supply Co., 51 S Main
Lewis, Charles, Main n B'way
Palmateer Bros.
ATLANTIC CITY—Borton Coal & Trading Co.
Smith, Edwin, 1211 Arctic av
BASKING RIDGE—Conklin Lumber Co.
BAYONNE—Booth, A. W. & Bro.
Brady's, James, Sons Co.
BERNARDSVILLE—Hoffman, H. W.
BEVERLY—Perkins, A. T.
BLOOMFIELD—Bloomfield Coal & Supply Co.
Ogden & Cadmus
BOONTON—Boonton Lumber Co.
Salmon, Henry & Son
BORDENTOWN—Chamberlain, John G.
Shreve, W. A. & Co.
BOUNDBROOK—Cook, L. D. & Co.
Ross, R. A. Co.
BURLINGTON—Riggs, Edw., Jr.
CAMDEN—Camden Lime Co., 127 Federal
Justice Coal & Lime Co., 206 Market
Kilpatrick, Samuel A., Federal ab 12th
Reeve, Aug., 31 Market
Taylor Bros., c Front & Market
CAPE MAY COURT HOUSE—Tyler, W. J.
CLIFFSIDE PARK—Buckley & Godstrey
COOKSTON—Hancock, J. B.
CRANFORD—Rindell, R.
CRESSKILL—Cresskill Lumber Co.
DOVER—Birch, Foster F.
Dover Lumber Co.
EAST ORANGE—Builders' Material Supply Co.
Cook & Genung Co.
Pierson, James T. & Co., 89 Dodd
EDGEWATER—Buckley & Godstrey
Hinner's, E. H. Sons
Meyer, Otto
EGG HARBOR—Rupp, Harry R.
ELIZABETH—Enterprise Coal & Supply Co.
Gold, P. & Co.
Hall & Carlton
Mulford Coal & Lumber Co.
Neureiter & Horre, 336 E Jersey
Sayre, T. F. & H. C.
Smith Lime Flour Co.
Standard Building Material Co.
Thompson, J. & S. S.
ENGLEWOOD—Payson, George H.
Prentice Co.
Tuttle Bros.
FANWOOD—Hand, E. T. & E. L.
FAR HILLS—Dumont, David
Ludlow, L. V. Co.
FREEHOLD—Statsir Lumber Co.
GLADSTONE—Tiger, Ellis Co.
GLASSBORO—Shute, A. E.
GLOUCESTER—Kelly, Edw. D.
Stinson & Dickinsheets
GRANTWOOD—Grantwood Lumber & Supply Co.
GUTTENBERG—Gardner & Meeks Co. Co.
HACKENSACK—Gardner, I. E.
Hackensack Coal & Lumber Co.
HADDONFIELD—Bell Bros.
HAMMONTON—Bernhouse, William H.
HARRISON—Harper, David
HOBOKEN—Hinternhoff, Frank B.
Lehigh Coal & Supply Co.
Schultz, C. S. & Son
Vanderbilt, E. D. & Co.
JAMESBURG—Perrine & Buckelew Co.
JERSEY CITY—Baldwin Lumber Co., Garfield av
Conlon, Edward W., Provost
Glass & Dodd (Sewer Pipe, etc.), 5th
Hall, J. P., 588 Central av
O'Neill, C. H. Lumber Co., 844 Jersey av
Union Stone Co., 273 5th
United Building Material Co., Jersey av
Van Keuren & Son, Grand & Prior
Washburn Bros. Co., ft. Jersey av
KENVIL—Kenvil Lumber & Store Co.
LAKEWOOD—Lakewood Supply Co.
Larabee, Alfred S.
LAMBERTVILLE—Massey, Geo. W.
LITTLE FALLS—Klotz, E. L.
LITTLE FERRY—Brewster & Son
LONG BRANCH—Chandler & Maps
Edwards Lumber & Coal Co.
Gifford, Lacour, Cramer & Co.
MADISON—Bruen & Morres
Green & Pierson
Smith, Joseph M. Co.
MANASQUAN—Vanleer, E. S.
MATAWAN—Cartan & Delvin
MERCHANTVILLE—Collins & Pancoast
METUCHEN—Edgar, Chas. S.
Freeman, Manning & Son
MILLVILLE—Cory, Charles F.
Kimball, Prince & Co.
MONMOUTH JUNCTION—Stout, A. F. & Son
MONTCLAIR—Builders' Material Supply Co.
Persons, W. O.
MORRISTOWN—Ennis, C. W. & Co.
MOUNT HOLLY—Dubell, Furman
NETCONG—Drake & Bostedo
NEWARK—Abbey, W. B., 15 Clinton
Bowden, Fred'k (Sewer Pipe, etc.). 218 Orange
Builders' Material Supply Co., 428 Clinton
Cook & Genung Co., 16 Jersey av
Lenox Building Supply Co., Union bldg
Newark Lime & Cement Mfg. Co., ft Bridge
Newark Sand Co. ft Centre
Ogden, Henry E. & Son (Sewer Pipe, etc.).
Perry, G. F., 261 Fabyan pl 428 Clinton av
Phillips White Rock Lime Co. (Lime), 125 Front
Reeve, Abner S. & Sons, 88 Front
Reid, A. S. & Co., 45 Clinton av
Riverside Supply & Mfg. Co., 2 Riverside
Sayre, Jas. R. Jr. & Co., River, nr Centre St. Depot
Sayre, Marcus Co., Centre St. Bridge
Tompkins Bros., 74 Passaic
Townley, C. E., 149 Vernon av
Van Keuren & Son, 501 Passaic av
Wolf, Stewart & Co., Waverly av & Peshine
Woodward, A. H. & Co., 110 Passaic
NEW BRUNSWICK—Howell Lumber Co.
Rolfe Building Materials Co.
Welsh, P. M.
Whitehead Bros. Co.
NEWTON—Hopkins, S. H.
OCEAN CITY—Shoemaker, C. H. Lumber Co.
ORANGE—Conover, John C.
Matthews, A. M. & Co., 68 Freeman
PALISADE PARK—Palisade Park Lumber & Supply Co.
Parkyn & Sons (Inc.)
PARK RIDGE—Millag, Frank O.
PASSAIC—Anderson Lumber Co.
Campbell, Morrell & Co.
Union Building & Cons. Co.
PATERSON—Agnew, John Co. (Est of)
Brogan, T. J. Co., Straight & Peach
Goble, Martin, R. R. av c Ward
Kelley, Christopher, R av c Green
Rodrock, E. M., 240 6th av
Sharpe, Jos. Construction Co., 18th n Van Houten
Smith, A. H., 47 Lafayette
Stiles, E. M., 223 Ellison
Trimble Coal Co.
PENN GROVE—Barber & Turner
PERTH AMBOY—Bolton, A. G.
Donnell, W. J.
Gerlufsen, S. F. & Co.
Langan, Thomas Lumber Co.
Robbins, I. R.
PLAINFIELD—Roice, Runyon & Co., 242 Park av
Loizeaux, Joshua D. & Co., 640 North av
PLEASANTVILLE—Lake & Risley Co.
POINT PLEASANT—Vannote, J. B. & Co.
PRINCETON—Beekman, J. V. D.
McCarthy & Sons
RAHWAY—Ayres, Ira C.
Friese, G. M.
RIDGEFIELD—Heisenbuttle & Herrschaft
RIDGEFIELD PARK—Brewster & Son
RIVER EDGE—Bogert, A. Z.
RIVERSIDE—Zurbrugg, August
RIVERTON—Evans, Jos. T.
Thomas Bros.
ROCKAWAY—Stickle, B. K. & G. W.
ROSELLE—Bachman-Veghte Co.
Ridgeway & Hobbs
RUTHERFORD—Galloway, Edwin T.
SALEM—Lippincott, Clement G.
SOMERVILLE—Sargeant Bros
Smith-Schoonmaker Co.
SOUTH AMBOY—Miller, A. J.
South Amboy Lumber & Supply Co.
SOUTH ORANGE—Halsey, H. B. Co.
SOUTH RIVER—Clayton, N. W.
STANWICK—Rogers, J. S. & Co.
STONEHARBOR—Simpson Co.
SUMMIT—Miller, T. B. Co.
Muchmore, George V.
Stephens Bros.
SWEDESBORO—McCullough, W. H.
TENAFLY—Demorest, Edward
TOMS RIVER—Brandt, A. A.
TOWN OF UNION—(See Weehawken)
TRENTON—Crozer & Stevens, 309 S Stockton
Heath, Samuel Co.
Hunt, James B. Mfg. Co., Richey bldg
New Jersey Elastic Pulp Plaster Co.
Richardson, Jos. B. & Sons
Richardson, P. B., 111 E State
Rickey, A. H. & Co.
VINELAND—Kimball & Prince Lumber Co.
WASHINGTON—Alleger's, E. W. Son
Gulick, Walter D.
WEEHAWKEN—Berger, E. W. & Bro., 300 Bull Ferry
Capone, R. A., 447 Summit av, West Ho-boken
Henry, Thomas, 188 Palisade av
Roscitt, J., West New York
WESTFIELD—Irving J. S. Co.
Tuttle Bros.
WESTVILLE—Patterson, Z. & Son
WOODSTOWN—Hitchner & Bassett
Woodstown Ice & Cold Storage Co.

## NEW MEXICO.

ALBUQUERQUE—Baldridge, J. C.
SANTA FE—Dudrew, C. W.
Hersch, Leo

## NEW YORK.

ADAMS CENTER—Maxson, E. C.
ALBANY—Batchelder, R. C., 774 B'way
Blackburn, J. T. D.
Dwight, H. A., 117 Pier
Fuller, Howard N., Chapel c Sheridan
Halpin, Wm. P.
Helderberg Cement Co. (Cement Mfrs.), 78 State
Jackson, John H., 3d av ab Sloan
Leonard & Co., 356 State
McCabe, Peter, 122 Pier
McClellan, Jno., 311 B'way, Rensselaer
ALTAMONT—Sands' Sons
AMENIA—Wison & Eaton Co.
AMSTERDAM—Grieme, H. C. (Est. of)
ASTORIA—(See Long Island City, Borough of Queens)
ATHENS—Howland & Son
AUBURN—Barnes, D. W. & Son, 5 Wall
Clark Lumber Co.
McCarthy Bros.
BALDWINSVILLE—Blanchard, J. R.
Tappan, W. H.
Voorhees, J. S. & Co.
BATAVIA—Dawson, William E.
BATH—Bowes, H. W. & Co.

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BINGHAMTON—Ballard, J. W. Co., 21 Jarvis
Bartlett & Co., 37 Collier
Bloomer, E. F., 59 Collier
D. & H. Lime & Cement Co.
Ensign Lumber Co., Jarvis n Erie R. R.
BROADALBIN—Finch, W. W. & Co.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Black, John H. (Mfrs' Agt.), Building Material
Bray & Lukens Co., Ellicott sq
Buffalo Cement Co., 170 Franklin
Buffalo Motor Works, Builders' Ex
Buffalo Paragon Wall Plaster Co., 54 B'way
Carroll Bros. (Sand, etc.), Ellicott sq
Carroll, J. E. Sand Co., Builders' Ex
Dehn, Charles (Gravel, Sand, etc.), Louisiana
Empire Limestone Co. (Sand, Gravel & Lime), 4th & Virginia
Fox & Halloway (Sand, Gravel, etc.), 252 Pearl
General Mercantile Co., 255 Washington
Globe Plaster Co., Builders' Ex
King, J. B. & Co., 322 W Genesee
Lyth, A. & Sons Co., 48 W Eagle
Newman's, Akron Cement Co., 141 Erie
Niagara Cement Co., Ellicott sq
Pfohl, Louis & Son, 30 Ohio
Reeb, M. A., 599 Michigan
Ross, James H., 141 Erie
Thorn Cement Co., Prudential bldg
Ward, Jno. H., 56 Seymour
BURDETT—Smith, H. C.
BURNHAMS—Payne, M. B.
CANANDAIGUA—Davidson, Alex.
Hollis, A. M. Co.
McNulty, F. X.
Thompson, George T.
CANASERAGA—Barnum, W. H.
CANISTEO—Brasted, P. O.
CARMEL—Palmer, B. S.
CARTHAGE—Jones & Simmons
CATSKILL—Holdridge, Geo. W. & Son
Raynor, A.
Timmerman, P. V. R.
CATTARAUGUS—Rich & Easton
CHATHAM—Boright, John W. Lumber Co.
CHAZY—Chazy Marble Lime Co.
CHESTER—Conklin & Roe
CLINTON—Allen, H. J.
CLYDE—Corrigan, Jos. G.
COHOES—Dooley, Jas. J.
Murray & Riberdy
Neary Bros. Cons. Co. (Contr's & Mason's Supplies)
Slavin, Thomas S.
COLLEGE POINT—(See New York City, Borough of Queens)
CORINTH—Mason, George H.
CORNING—Maltby, W. H. & Sons
CORNWALL LANDING—Taft-Howell Co.
CORTLAND—Beers & Warfield
Maxon & Starin
CUTCHOGUE—Goldsmith & Tuthill
DELHI—Jackson, T. J.
DOLGEVILLE—Faville, W. H.
DUNKIRK—Madigan & Co.
DUTCHESS JUNCTION—Budd, W. D. Brick
EAST AURORA—Geib, William H. Co.
Griggs & Ball
EAST HAMPTON—East Hampton Lumber &
EDEN—Redfield & Davis Coal Co.
ELLENVILLE—Bailey & Deyo
Cox Bros.
ELMIRA—Fisk, H. A. & Co.
Keefe, John (Est. of)
McGuigan, James
Queen City Sewer Pipe Co.
FAIRPORT—Holman, Geo. S.
Loomis, A. M.
FAYETTEVILLE—Bangs Cement & Plaster
Sheedy, Thomas W. Co.
FILLMORE—Brooks, William P.
FISHKILL LANDING—Aldridge, C. F.
FLORIDA—Roe Bros.
FLUSHING—(See New York City, Borough of
FORT PLAIN—Diefendorf, W. J. Queens)
Williams & Tanner Co.
FREDONIA—Cobb, John P.
Cooke, F. E.
Sly & Coddington
FREEPORT—Foreman, C. M.
Ross & Randall
FULTON—Gage, W. G. & Co.
GAINESVILLE—Bristol, J. W. & Son
GENESEO—Neff, N. W. & C. D.
GENEVA—Beard, J. H.
Dwyer, Frank
Ontario Coal Co.
Rogers, R. J. Lumber Co.
GLEN COVE—Titus & Bowne
GLENS FALLS—Finch, Pruyn & Co.
Glens Falls Portland Cement Co.
Sherman Lime Co.
GLOVERSVILLE—Holden Lumber Co.
GOSHEN—Conklin & Cummins
GOUVERNEUR—Corbin, W. S.
Noble, H. H.
GOWANDA—Van Deusen, J. E.
GREEN ISLAND—Smith, M.
GREENPORT—Corwin, C. L.
HAVERSTRAW—Hedges, I. M. (Est. of)
Lane, Charles R.
HEMPSTEAD—McLean, John R.
Mollineaux Bros.
HERKIMER—Palmer, C. W. & Co.
Pelton Bros.
Snell, C. R.
HEWLETTE—Sprague, George T.
HICKSVILLE—Augustine, Julius (estate)
Herzog, F. & Son
HIGHLAND FALLS—Muller Bros.
HILLSDALE—Bullock & Herrington
HOLLAND—Griggs, Ichabod N. & Son
HOLLEY—Murphy, John
HOMER—Maxon & Starin
HOOSICK FALLS—Easton, Rising & Worden
HORNELLS—Hollands, Stephen & Sons
HUDSON—Benedict, R. B. & Son
Macy, Charles W., 550 Union
Traver, W. H. & Son
HUNTINGTON—Wood, W. Wilton
HURLEYVILLE—Prince Bros.
ILION—Russell, A. N. & Sons Co.
ITHACA—Driscoll Bros. & Co.
Fowles, J., 10 Main
Jamison-McKinny Co.
JAMESTOWN—Sisson, Geo. W.
KINGSTON—Gill, David, Jr.
Griffiths, Frank H., 18 Hasb'k av
LANCASTER—Garretsee, J. O.
LARCHMONT—Larchmont Coal & Lumber Co.
LAWRENCE—Wood, John A. & Son
LE ROY—Heimlich, John
Keeney, N. B. & Son
Rogers, F. C.
LESTERSHIRE—Baldwin, Edwin L.
LIMA—O'Neill, Wm. A.
LOCKPORT—Crowe, Michael J.
Stainthorpe, C. N. & Co.
Whitmore, Mrs. C. B. Co.
LONG ISLAND CITY—(See New York City, Borough of Queens)
LYONS—Lockwood, B. F.
MACEDON—Servoss, Chas. J.
MALONE—Murtaugh, P. J.
Thompson, H. D. & Co.
MAMARONECK—Brewer, R. G.
Moffatt, L.
MATTEAWAN—Davidson, S. M.
MATTITUCK—Penny, George L.
MECHANICSVILLE—Robinson, W. A.
MERRICK—Smith, Thomas B.
MIDDLE GRANVILLE—Rogers, A. N.
MIDDLEPORT—Jackson, Thomas W. & Co.
MIDDLETOWN—Ketchum, D. A.
Le Fever Bros.
Van Fleet, Wilbur
MILLERTON—Beers & Trafford
MONROE—Conklin, Geo. R.
MONTGOMERY—Sears & Moore
Vanderoef, John J.
Wait, Charles D.
MONTICELLO—Osborn & Son
MOUNT KISCO—Young & Halstead Co.
MOUNT VERNON—Burton & Fenton
Wilson & Adams Co.
NEWARK—Bartle, A. C. Lumber Co.
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Harrison, John J. E., 488 B'way
Wilson, Samuel A., 175 Wash'n
NEW PALTZ—Lefevre, A. P.
NEW ROCHELLE—Mahlstedt, J. A. Lumber &
New Rochelle Coal & Lumber Co. Coal Co.

## NEW YORK CITY.

### Borough of Brooklyn.

(See also Cement Manufacturers)

BROOKLYN—Bannon, P. & Sons (Sand, etc.), 129 Richards
Braun & Howe, 66 Huron
Canda, M. M., 184 3d
Candee & Krekeler, c 15th & Hamilton av &
Castle Bros., Johnson pl 1217 Grand
Clarke, Audley, 527 Smith
Colyer, Jos. H. & Son, 11 Front
Creamer, F. D. Co., ft 42d
Duffy, J. P. Co., 51st & 2d av
Empire Brick & Supply So., 125 25th
Fischer & Lagno (Rough & Dressed Spars), ft of Clinton
Flatbush Building Material Co. (Brick, Lime, Cement, etc.), 1661 Flatbush av
Geiser, Chas. J., Grand & Metropolitan av
Mahnken, John H., 1091 Grand av
Mahnken, John H., 1107 Metropolitan av
Monahan, John F., 378 Flushing av
Morton's, John Sons Co., 387 Carroll
Sullivan, J. T., 2452 Fulton
Wenz, Chas., 2434 Atlantic av

### Boroughs of Manhattan & Bronx.

(See also Cement Manufacturers)

NEW YORK—Behrend, F. (Cement Importer), 54 Front
Bell, Jno. Co., E 138th & Girard
Bowne, Thos. B. & Son, ft Main, Westchester
Brooks, A. J. H. Co. (Shell Lime), 644
Cable, W. N., 1328 B'way W 51st
Candee, Smith & Howland Co., ft E 26th
Contractors' Supply Co., Watson's la., Westchester
Darrow, Rufus & Son, ft W 47th
Empire Brick & Supply Co., 103 Park av
FISKE & COMPANY, (Inc.), Flat Iron bldg. (See adv. index, end of book)
Fleming & Co. 253 B'way
Fredenburg & Lounsbury (Front & Ornamental Brick & Cement), 381 4th av
Heaney, P. J. & Co., West Farms rd & 176th
Hoag, Wm. N. Co., 105 West 40th
Hookey, W. T., 3d av & 129th
Jackson, Howard B. (Mfrs. Agts., for Brick, Cements, etc.), 118 E 28th
Johnson, F'k R., 253 B'way
Kane, John P. Co., 103 Park av
McCandlish, R. N. Kinney Co., 1123 B'way
Martin, Robert C. & Son, 286 5th av
Miller, Clifford L. & Co. (West Stockbridge Lime; Dry Mixed Mortar; Cement; Plaster, etc.), 110 E. 23d
Moran, Thos. S., 100 William
Morse, Frank E. Co., 17 State
Mount Vernon Builders' Supply & Coal Co., 3rd av, Eastchester
Murray & Reid Co. (Lime & Sand), 17
Murtagh, Chas. E., ft Rivington State
Murtha & Schmoll Co., 814 E 14th
Noonan & Price Co., 15 E 137th
Overbaugh-Camp Co., W 177th & Harlem River
Palmer Lime & Cement Co., 149 B'way
Peck, N. & W. J., ft E 48th
Person & Co., 160 5th av
Philbrick, John A. & Bro., ft E 97th
Planet Cement Co., 1123 Broadway
Raymond, G. B. (Clay Materials), 202d & Webster av
SAYRE & FISHER CO. (Brick Mfrs.), 261 B'way. (See adv. Front Inside Cover)
Smith, Clarence L. Co., 30th & 11th av
Stortz, Valentine, 76 Pine
Tomkins Bros. (Sewer Pipe), 200 5th av
Tomkins, Calvin, 17 Battery pl
Union Building Material Co., 3 Old B'way
Warner, Chas. Co. (Wholesale), 1 Madison
Wise, Nath'l, ft E 79th av
Wood, Theo. C., 137th & Madison av

### Borough of Queens.

COLLEGE POINT—Kraemer Bros. Co.
JAMAICA—Styles, Thos.
FLUSHING—Ryon, Augustus M.
LONG ISLAND CITY—Boyce & Barnes Co.
Clonin & Messenger
Pfeffer, Jacob
OCEANUS—Jamieson & Bond
OZONE PARK—Reimer, Jno. B.
RICHMOND HILL—Brown, Geo. A. W. & Co.
Solms, Geo.

### Borough of Richmond.

NEW BRIGHTON—Wood, John J.
PRINCE BAY—Seguin-Runyon-Stiles Co.
STAPLETON—Thompson, Jas. & Sons

**(End of New York City)**

NIAGARA FALLS—Humbert, Wm. S.
Niagara Falls Builders' Supply Co.
NORTH TONAWANDA—Berger, H. U.
Knapp-Cramer Hardware Co.
Rose, H. A. (Est. of)
NUNDA—Knappenberg, W. S.
NYACK—Gregory & Sherman
White, W. H. & Co.
OCEANUS—(See New York City, Borough of Queens)
OGDENSBURG—Barr, John
Britton, W. D.
Hackett, P. Hardware Co.
OLEAN—Taylor B. U. Co.
ONEIDA—Marcellus, Geo. A.
Ruby, R. D.
ONEONTO—Briggs, N. H. & Son
Butts, L. P.

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OSSINING—Terwilliger's, I. Son
OSWEGO—Culkin, J. A.
Farwell, J. B. & Co.
OWEGO—Farmers' & Builders' Supply Co.
Richardson, F. W.
PATCHOGUE—Bailey, E. & Sons
PEARL RIVER—Serven, W. A.
PEEKSKILL—Dains', N. Sons Co.
PERRY—Hawley, W. J., Jr.
PHILADELPHIA—Clark, F. I.
Miller, H. K.
PIERMONT—Walsh & Reichling
PINE BUSH—McKinney, Henry L.
PLATTSBURG—Purdy, Frank M.
PLEASANTVILLE—Cornell Lumber Co.
PORTCHESTER—Peck, W. E.
Ryan, William Co.
Tibbits, Charles H.
PORT JEFFERSON—Fanning, O. T. & Co.
Mather, John T.
PORT JERVIS—Westbrook, Edw. S.
PORT RICHMOND—(See New York City, Borough of Richmond)
PORT WASHINGTON—Copp, C. W.
POTSDAM—Baldwin, H. K. & Co.
Weed, F. A.
POUGHKEEPSIE—Arnold, C. N. Co.
Foster, D. C. & Sons
Lumb, George W. & Son
Lumb's, Levi Son
**TAYLOR, JAS. L. MFG. CO. (Steel** Staging & Shingling Brackets, Shingle Holders, Scaffold Irons). (See adv. index, Wilbur Co. end of book)
PRINCE BAY—(See New York City, Borough of
RANDOLPH—Felt & Almy Richmond)
RHINEBECK—Herrick, T. J.
RICHMONDVILLE—Harroway, M. W.
RIPLEY—Crandall, J. E.
RIVERHEAD—Corwin & Vail Lumber Co.
Young, O. R.
ROCHESTER—Hollister Concrete Block Co.
Lamson & Leason, Cottage c Seward
Mandery, J. J., 158 Scuth av
Oliver, Thomas (Est. of), 328 South av
Rochester Lime Co., 209 Main
Whitmore, Rauber & Vicinus, 279 South av
ROCKVILLE CENTER—Combs, G. D.
Langdon, Jos. B., Est. of
ROME—Wardwell Hardware Co.
RONDOUT—(See Kingston)
SACKETT HARBOR—Hovey, E. A.
SAG HARBOR—East Hampton Lumber & Coal
SALEM—Dillon, Jno. L. Co.
SANDY HILL—Griffin Lumber Co.
Kenyon Lumber Co
SARATOGA SPRINGS—Todd, E. R.
SAUGERTIES—Saugerties Coal & Lumber Co.
SCHENECTADY—Crane-Veeder Co.
Devenpeck, L. W.
Odell & Bradt
Rankin & Carey, 310 S Centre
Rosa, N. W., 223 Dock
Schermerhorn Coal Co.
Winne & McCain, Peek st
SEA CLIFF—Parliman, Lawrence E.
SENECA FALLS—Maier, Fred
Palmer, S. S.
SHERBURNE—Gaines, Thos. P.
SIDNEY—Sidney Flour & Feed Co.
SKANEATLES—Carver, Richard
Stuart, William G.
SOUTHAMPTON—Hampton Lumber Co.
Havens, George L.
STONY BROOK—Bayless, D. T. & Son
SUSPENSION BRIDGE—Haeberle Lumber Co.
SYRACUSE—Artificial Paving Co.
Britton, Israel E., 186 E. Brighton av
Clarke, Geo. R., 541 S Clinton
National Wall Plaster Co., O. C. S. Bank bldg
Paragon Plaster Co. (Atlas Cement; also Lime, Brick, Plaster, etc.), 110 Warren
Salisbury, D. J. & Ten Broeck, 206 St.
Sullivan, C. J., 126 S Clinton Mark's av
TARRYTOWN—Dinkel & Jewell Co.
Husted, A. P.
Odell's, Jacob Sons
TICONDEROGA—Bascom, D. C.
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TONAWANDA—Barnes, Henry, 14 N Canal
Collins, Cornelius
TOTTENVILLE—(See New York City, Borough of Richmond)
TROY—Crandell, Knight & Reichard, 385 River
Grimm, Max, 157 River
Rickerson & Co.
Smith, Milo, 527 River
TRUMANSBURG—Hasard, Wm.
TULLY—Garrison, J. H.
UTICA—American Hard Wall Plaster Co.
Conley, Frank E. Stone Co.
Corrigan, Jos. N., 201 Steuben
Empire Wall Plaster Co.
McQuade & Bannigan
White, Chas. N. Clay Products Co.
WALDEN—Dominick, D. C.
Hill, C. W.
WARRENSBURG—Emerson, A. C. & Co.
WARWICK—Conkling & Strong
WATERFORD—Slade, George D.
WATERLOO—Clark, Edwin
Terwillinger, A. H. & Son, Locust n Main
WATERTOWN—Cleveland & Ogsbury
Johnson, S. W.
Jones, W. C.
Roblin Lumber Co.
White & Sullivan
WATERVLIET—Andrews, H. F. & Co.
WATKINS—Durland, L. H. Son & Co.
WEST WINFIELD—Weeks, George S.
WHITEHALL—Sullivan, J. H.
Witherbee Cash Store
WHITE PLAINS—Young, R. Bros. Co.
WHITESTONE—(See New York City, Borough of Queens)
WILLIAMSBRIDGE—(See New York City)
WOLCOTT—Northrup, G. H. Lumber Co.
YONKERS—Lawrence Bros.
Yonkers Builders' Supply Co.

## NORTH CAROLINA.

ASHEVILLE—Scott Lumber Co.
Westall, W. H. & Co.
CHARLOTTE—Carolina Mfg. Co.
Ward, W. W. & Co.
Wearn, J. H. & Co.
Withers, B. F.
GREENSBORO—Odell Hardware Co.
Stone Building Supply Co.
HICKORY—Ingold, F. B.
LEXINGTON—Ward, E. M.
RALEIGH—Briggs, Thos. H. & Sons
N. C. Bldg. & Supply Co.
SALISBURY—Brown, J. Allen
McCubbins & Harrison
SANFORD—Sanford Sash & Blind Co.
SCOTLAND NECK—Biggs & Johnson
WILMINGTON—Jacobi, N. Hardware Co.
Moore's, Roger Sons & Co., 104 N Water
WINSTON SALEM—Brown-Rogers Co.
Fogle Bros. Co.
Miller Bros. Co.

## NORTH DAKOTA.

BEACH—Kranick, Thos.
DICKINSON—Walton & Davis Co.
FARGO—Beidler & Robinson Lumber Co.
Birch & Sons Construction Co.
Bowers Bros.
Chesley, James A.
GRAND FORKS—Dinnie Bros.
Pembina Portland Cement Co.
Robertson Lumber Co.
St. Hilaire Retail Lumber Co.
MINOT—Teutsch, Eugene
WAHPETON—Rischard, John

## OHIO.

ADA—Ada Coal & Lumber Co.
AKRON—Akron Paving & Plaster Co.
Akron Supply Co., 615 E Mill
Akron Wall Plaster Co.
Botzum Bros., 213 N Main
Crisp, Geo. & Son, 500 E Mill
Haury, John G., 705 E B'way
Kryder, L. & Sons, 112 S Main
Mell & Salem
Peterson & Wright Co.
Pfarr & Hobart
ALLIANCE—Auld's, Jno. Sons
Tollerton, I. & Son
ANDOVER—Wood Bros.
ASHLAND—Ashland Hardware Co.
Boren, William
Palmer, B. H. & Sons
ASHTABULA—Dudley, W. E.
Robinson, M. C. & Co.
Shrock, S. B.
BEDFORD—Groh Bros.
BELLAIRE—Anderson & McGregor Co.
BELLEFONTAINE—Bellefontaine Stone & Lime
Buckeye Portland Cement Co. Co.
BLUFFTON—Siddall, L. J.
BOND HILL—Perine, G. Artificial Stone Co.
BOWLING GREEN—Snowflake Lime Co.
Star Supply Co.
BRIDGEPORT—Meister Bros.
Scott Lumber Co.
BUCYRUS—Smith, J. M. & Fitzer
BURTON—Crittenden, H. W. & Son
CADIZ—Long, E. M. & Sons (Wholesale)
CAMBRIDGE—Cambridge Hardware Co.
Orme-McMahon-Thompson Co.
Probasco, J. N.
CAREY—Snyder, William H.
CARTHAGE—Wunker, H. & Son
CHILLICOTHE—Sterling Planing Mill & Lum-
Wissler Hardware Co. ber Co.
CINCINNATI—Chrispin, Jas. G. Lime & Cement Co., 826 Reedy
Cincinnati Builders' Supply Co., Opera House
Cincinnati Sewer Pipe Co., Norwood bldg
Conkling, H. J., 1127 Gilbert av
Contractors' & Builders' Supply Co., 2340 Stanton av
Farrin, M. B. Lumber Co., Winton pl
Funke, John (Sand & Gravel)
Hall, T. J. & Co. (Washed River Sand & Gravel)
Hurford & Pursell, Chamber of Commerce
Jacobs, Julius, 276 W McMicken av
McCammon, L. H. Bros., Johnston bldg
McClure, T. F. & Sons Co., Perin bldg
McCracken, J. E., Supply Co., 629 E Front
Metcalfe, L. A., 2433 Gilbert av
Moores-Coney Co., Union Trust bldg
Moss, C. W., 233 McCullough
Pachoud, A. L. & Co., 3521 Montgomery rd
Patterson, Alex, 3036 W 6th
Raff, Allan Ross, Fosdick bldg
Taylor, Chas. E., 1429 Cutter
CIRCLEVILLE—McMullen, G. J. & Son
CLEVELAND—Cannell, Eli W., 4129 E 93d
Cleveland Builders' Supply Co. S E
Cleveland & Pittsburg Coal Co.
Diamond Portland Cement Co. (Cement Mfrs.), Williamson bldg
Forrester Plaster Co., ft. East 49th
Gordon Sand & Gravel Co., Garfield bldg.
James, Ralph T., 5305 Euclid av
Kelley Island Lime & Transport So., Rocke-
Lake Shore Sand & Gravel Co. feller bldg
Lincoln Sand & Gravel Co., Wade bldg
Shepard, J. J.
Stowe-Fuller Co.
CLEVES—Caine, Chas. W.
CLYDE—Hurd, T. P. & Sons
COLLEGE CORNER—Stewart, John H. & Son
Stewart, John H.
COLLINWOOD—Baldwin-Snell Co.
Collinwood Lumber Co.
COLUMBUS—Acme Paving Co., 408 W State
American Sewer Pipe Co., 315 N High
Builders' General Supply Co.
Carlile, J. P., 450 W Broad
Columbus Builders' Supply Co.
Columbus Coal & Lime Co., 347 S High
Columbus Contractors' Supply Co.
Columbus Macadam Co., 319 Dublin av
Ferris Steam Mortar Works, 626 Galloway av
Fifth Avenue Coal Co.
Hamilton Parker Fuel & Supply Co.
Murray City Coal Co.
Phillips Cement Stone Co.
Rapp, Jacob & Co., 375 S High
Rock Plaster Mfg. Co., W Broad & Hocking Valley R. R.
South Side Lumber Co., 1927 S High
West Side Lumber Co.
CONNEAUT—Pond Lumber Co.
Weldon & Babbitt
CORNING—Rodgers, D. M.
DAYTON—Dayton Builders' Supply Co.
Dayton Fibre Plaster Co., Shawnee st.
Eichelberger, T. D. & Son
Hawthorn, W. S., 222 S William
Herr, E. H.
King, Chas. S., 1825 W 3d
McGreevy & Ortman
Rice, Wall Plaster Co., W Wash'n
Schaeffer & Gungnagel, 812 E 1st
Smart, A. F., 526 S Wayne av
Star Coal & Cement Co.
Trimbach, Geo.
Whitmore, Wm. M., Foundry & Monument
DEFIANCE—Gorman, M. B., 500 Perry av
DELPHOS—Fisher, A. L.
EAST LIVERPOOL—Hall, Robert Lumber Co.
Milligan Hdw. & Supply Co.
Nease, C. & Co.
Old Roman Wall Plaster Co.
EAST PALESTINE—Meek & McClure
EIFORT—Morgan & Horton
ELMWOOD PLACE—Elberg, F. W.
ELYRIA—Elyria Lumber & Coal Co.
FAYETTE—Van Auken & Faber
FINDLAY—Morrison, P. B.
Tarbox & McCall
FOREST—Lindsay, Wm.
Young, J. W. & T. M.
FOSTORIA—Ohio & Western Lime Co.
FRANKLIN—Anderson's, L. G. Sons
FREMONT—Gottron Bros.
GALION—Galion Lumber Co.
GALLIPOLIS—Rue, John C.
GLENDALE—Freyhof, John D.
HAMILTON—Bender Co.
Benninghofen, August

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Smith, Jos. W.
Straub, F. J. & Co.
HARRISON—Perrine, Atwood
Vincent, W. C. & Son
HILLSBORO—Highland Lumber Co.
Whisler, Chas. F.
HUBBARD—C. & C. Coal Co.
IRONTON—Ironton Lumber Co.
Ironton Portland Cement Co.
JACKSON—Buckeye Mill & Lumber Co.
KENT—Hall, P. B.
Hullett, George W.
KENTON—Callam, John & Co.
Robinson & Gage Lumber Co.
LANCASTER—Orman Bros. Lumber Co.
LIMA—Builders' Lumber & Supply Co.
Consumers' Fuel & Building Supply Co.
Fidelity Coal & Supply Co.
Hull, Laurens Lumber Co.
LISBON—Armstrong, P. M. & Co.
LOCKLAND—Lockland Lumber Co.
LORAIN—Lorain Lumber & Mfg. Co.
Lorain Supply Co.
South Lorain Coal Co.
MADISONVILLE—Settle, O. H. W. & Co.
MANSFIELD—Barton & Willis
Branyon, M. L. & Bro.
Rusk Bros.
Voegele Bros.
MARIETTA—Becker Mill Co.
Crescent Supply Co.
MARION—Implement Mfg. Co.
Leffler & Bland
Ohio Milling & Elevator Co.
Ohio & Western Lime Co.
Prendergast Co.
MARTINS FERRY—Rothermund, Henry
MARYSVILLE—Robinson & Curry Co.
MASSILLON—Atwater, D. & Sons
Clements, A. J.
Harter, Charles L.
Segner, E. C.
MEDINA—Wood Co.
MIDDLEFIELD—Patchin, C. P.
MIDDLETOWN—Hatfield Coal Co.
Ralston Coal Co.
MILFORD—Buckingham & Hair
Clark, J. N.
MOUNT GILEAD—Hickson, Joseph
Mount Gilead Lumber Co.
MOUNT VERNON—Sanderson & McCreary (Also Slate)
NAPOLEON—Napoleon Pulp Plaster Co.
Thiesen & Hildred
NEWARK—Newark Lumber Co.
Norris, H. O.
Pratt-Kirk Co.
Smith, P. & Sons, Lumber Co.
NEW COMERSTOWN—Novelty Brick & Coal Co.
NILES—Eaton, J. W.
Union Roofing & Supply Co.
OBERLIN—Cole, S. M.
OWENS—Owens, John D., & Son
PAULDING—Paulding Lumber Co.
PIQUA—Border City Coal Co.
Cofield, W. O.
Morrow & Licklider
Rees Coal Co.
Statler, D. C. Co.
Zollinger, S., Co.
PLYMOUTH—Nimmons & Nimmons
PORTSMOUTH—Gilson, J. B. (Est.)
Kaps Bros.
Leet, H., Lumber Co.
RAVENNA—Morgan, E. E.
Bennett, J. A.
ST. PARIS—Kizer & Long
SALEM—Campbell, C. C. & Son
Salem Hardware Co.
Salem Lumber Co.
Satterthwait, Wm. D.
SANDUSKY—Groch, Fred'k Coal Co.
Homegardner Sand Co.
Kelley Island Lime & Transport Co.
Lake Erie Sand Co.
Nielsen, C. A.
Sandusky Sand Co.
SEBRING—Sebring Lumber Co.
SHELBY—Morris, W. H.
Wiggins, E. W.
Will & Myers
SIDNEY—Heiser, Jno.
Klipstine, Wm. Lumber Co.
Sidney Grain & Milling Co.
SPRINGFIELD—Goode & Hayward
Houck Brick Co.
Jenkins & Otstot
Mills Bros., 107 S Limestone
Rawlins, A. M.
Springfield Coal & Ice Co., 93 S Limestone
STEUBENVILLE—Alexander, W. J.
McFeely Bros.
Ohio Plaster & Supply Co.
Ohio Valley Ice & Storage Co.
TIFFIN—Weot Bros. & Co.
TOLEDO—Acme Coal, Wood & Builders' Supply Co.
Buckeye Builders' Supply Co.
Doherty & Co., The Spitzer
Holst, W. O., Builders' Supply Co.
Knopp Bros. Co.
Ohio Builders' Supply Co.
Ohio & Western Lime Co.
Toledo Builders' Supply Co., Spitzer bldg
Woodville Lime & Cement Co.
TROY—Trojan Coal Co.
UHRICHSVILLE—Pearch, Jacob
Romig, P. A.
UPPER SANDUSKY—Gipson, W. A.
VAN WERT—Rupright Bros.
WAPAKONETA—Snyder Mfg. Co.
WARREN—Cereal Supply Co.
Greenwood & Co.
Murray, Thos. R.
Western Reserve Lumber Co.
WASHINGTON C. H.—Coffman, H. G. & Co.
WAUSEON—Williams, H. H. & Co.
WELLSVILLE—Augenbaugh, H. C.
WEST LIBERTY—Feathers, George
WEST PARK—Colbrunn Bros.
WILLOUGHBY—Hill, A. T. & Co.
Jenkins, C. C.
WILMINGTON—Fisher Mfg. & Fuel Co.
WOOSTER—Gray & Son
XENIA—Thornhill Bros.
YOUNGSTOWN—Buehrle, German B.
Concrete Stone & Sand Co. (Sand & Concrete)
Kinder, L. & Co.
Mahoning Builders' Supply Co.
Mauser, Christ
Sharp Bros. Co.
Youngstown Ice Co.
ZANESVILLE—Adams Bros.
Harris Bros., 28 N 2d
Moorehead, Thos. L.
Moorehead, R.
Townsend, Wm. C. & Co., 7 Main

## OKLAHOMA.

ALVA—Drake, E. D. & Co.
BARTLESVILLE—Koplin, Chas. C.
OKLAHOMA—Clark, R. J. Coal Co.
De Bolt, A. M.
Garrison, J. B. & Co.
Green, W. W.
Hanson, S. H. Builders' Supply Co.
Houliston Coal & Material Co.
National Builders' Supply Co.
Oklahoma Cement Brick & Products Co.
STILLWATER—Bullam, H. P.
TULSA—Builders' Supply Co.

## OREGON.

BAKER CITY—Stoddard Bros. Co.
EUGENE—Roney, L. N.
GRANTS PASS—Hair, Riddle Hdw. Co.
PORTLAND—Adamant Co.
Balfour, Guthrie & Co., Concord bldg
Beach, F. E. & Co., 135 1st
Cannon, Albert J.
Crowe, F. T. & Co. (Complete Line), 252
Hennesy, J. D. & Co. Oak
Ireland & McMillan
McCracken, J. Co. (Cement, Lime, Plaster
Nottingham & Co. & Builders' Specialties)
Oregon Lime & Plaster Co.
Rate, G. B. & Co., 184 Madison
Timms, Cress & Co.
Versteeg-Gor Brick Co.
Waterhouse & Price Co.
Western Storage & Transfer Co., 321 Hawthorne av
SALEM—Burton, A. A.
Murphy, J. B.
THE DALLES—Glenn, Hugh & Co.
Wasco Warehouse Milling Co.

## PENNSYLVANIA.

ALBION—Sergent, A. W.
ALLEGHENY—(See Pittsburg)
ALLENTOWN—Butz, Jas. F. & Co., Gordon
Kuder, Millard A., 330 Gordon c Jordan
Ochs, Molton T. J.
ALTOONA—Altoona Concrete Construction & Supply Co.
Canan Building Supply Co. 18th & Margaret
Canan-Knox Supply Co.,
Halton, John (Estate of)
Vipond, John S. Coal Co.
AMBLER—Craft, J. Watson
ARCHBALD—O'Boyle, F. J.
ARDMORE—Smedley & Mehl
ASHLAND—Buck, Peter E. & Sons
ATHENS—Macafee, Dana J.
Myer, C. M.
AVONDALE—Williamson, Frank & Co.
BANGOR—Bangor Lumber Mfg. Co.
Houck, Edward J.
Wise Lumber & Coal Co.
BATH—Cressman, A. H.
BEAVER—Anderson & Cook
BEAVER FALLS—Brierly, Frank F. & Sons
Davidson, W. J.
Pearson & Son
Zimmerman, R. E.
BELLEFONTE—McCalmont & Co.
BERWYN—Fritz, W. H.
BETHLEHEM—Stahr, George F.
BLAIRSVILLE—Graff Coal Co.
Ray, L. S. W.
BLOOMSBURG—Paragon Plaster & Supply Co.
BLOSSBURG—Clark, Geo. D.
BLUE BELL—De Prefontaine, Chas.
BOSTON—Harper, C. M. C.
BRADDOCK—Braddock Hdw. & Supply Co.
Braddock Lumber Co.
Crown Wall Plaster Co.
Dowler, E. R.
Keller & Milliken
McCrady Bros. Co., Braddock, Pa.
Stockdale Supply Co.
BRADFORD—Fischer, L. A. & Co.
Robison, Winfred S.
Stout & Holden
BRIDGEPORT—March's, I. F. Sons
BRISTOL—Leedom, W. F.
Pierce, E. M.
BROOKVILLE—McKnight, Son & Co.
BROWNSVILLE—Wright's, T. S. Sons
BRYN MAWR—Supple, I. H. & Co.
BUTLER—Klinger, H. J. & Co.
Niggel, J. & Son
CAMBRIDGE SPRINGS—Bolard Bros.
CANONSBURG—Elliott, W. J.
Munnell, Samuel
CARBONDALE—Cavanagh, C.
Mills Bros.
CARLISLE—Bixler, J. P. & Sons
Goodyear Bros.
CARNEGIE—Foster, C. A.
CATASAUQUA—Deily, G. B. F.
Schneller, C. W.
CHAMBERSBURG—Coyle & Diehl
CHARLEROI—Mounster, R. C.
CHESTER—Bunting, D. S. Co.
Chester Lumber & Coal Co.
McDowell, W. J. & Bro.
Stevenson Co.
Wood, L. N. & Bro.
CHRISTIANA—Cooper, Mark P.
CLEARFIELD—Fullington, E. W.
Standard Brick & Tile Co.
COATESVILLE—Lukens, Nathan
Pownall Hardware Co.
COLUMBIA—Columbia Brick Co.
Wilson, Hiram (Est. of)
CONNELLSVILLE—Fayette Lumber Co.
Standard Lime & Stone Co.
CONSHOHOCKEN—Beatty, Jas., Sr.
Jones, Wm. Potts
CORAOPOLIS—Watson, T. F. & Bro.
CORRY—Barlow Hardware Co.
Wales Hardware Co.
CRAFTON—Crafton Builders' Supply Co.
DANVILLE—Cole, J. H.
Welliver Hardware Co.
DARBY—Thurston, Oscar
DEVON—Lobb, C. A. & Sons
DOYLESTOWN—Barrett, James
Beidler, Henry S.
Randall, W. H.
DUBOIS—DuBois, Jno. E.
Hibner-Hoover Hardware Co.
Kotofski, Jno.
EASTON—Easton Lime Co.
Osterstock, J. S. & Co.
EAST STROUDSBURG—East Stroudsburg Lumber Co.
EMAUS—Brown, Chas. D.
Jarrett, H. W. & Son
EMLENTON—Sloan, U.
EMSWORTH—Little, John G.
ERIE—Boyd & Schafer, 1920 Parade
Erie Hard Wall Plaster Co., ft of French
McCarty, Dennis, 6th & Wayne
Saltsman Coal & Supply Co.
Thayer, O. C. & Son, Chestnut & Railroad
ETNA—Pine Creek Supply Co.
Stevenson, Milford
EVANS CITY—Burry & Market
EVERETT—Cottage Planing Mill Co.
FERNWOOD—Hoopes, Rufus C.
FLEETWOOD—Schaeffer, Wanner & Co.
FRANKLIN—Howard Lumber & Coal Co.
King, George S.
GLENOLDEN—Mitchell, J. E.
GREENVILLE—Emery, H. H.
Livingston & Moyer
Packard Hdw. Co.
HAMBURG—Lenhart, I. S.
HANOVER—Schmuck Bros.
HARRISBURG—Gerlock & Lutz, 10th c Mulberry
Kelley, H. M. & Co.

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Rhoads, C. H. & Co., c 7th & Briggs
Rhoads, J. E., Cowden c Forster
HARRISON VALLEY—Parks, J. M.
HAZLETON—Bright, J. C. & Co.
Frederick, S. Y.
Hazleton Machinery & Supply Co.
Schaub, Justus
Shaffer, Aaron
HOLLIDAYSBURG—Condron, J. B.
Law, John H.
Law, Joseph D.
HOMESTEAD—Hall, H. & Co.
Vallome Bros.
HOOVERSVILLE—Myers, H. J. & W. A.
HUMMELSTOWN—Engle, Jno. S.
Holler, Chas.
HUNTINGDON—Miller, C. H. Hdw. Co.
INDIANA—Stewart, J. M. & Co.
IRWIN—Fox, L. C.
JEANNETTE—Sloan, W. S.
JOHNSTOWN—Cambria Concrete Construction
Johnstown Planing Mill Co. & Supply Co.
Thomas-Kinzey Lumber Co.
Walters, John W.
KINGSTON—Edwards & Co.
Roat, A. J.
KITTANNING—McConnell & Luker
McCullough, James, Jr.
KNOXVILLE—Fisk Supply Co.
KUTZTOWN—Heffner, Jas. S.
LANCASTER—Galbraith, Jefferson G.
Reilly Bros. & Raub, 40 N Queen
Sener, G. & Son
Steinmann Hardware Co., 26 W King
LANSDALE—Brady, James
LANSDOWNE—Levis, G. H.
LATROBE—Doherty, Philip Hdw. & Supply Co.
McFeely Brick Co.
LEBANON—Graniting Wall Plaster Co.
Krause, George Hardware Co.
LEHIGHTON—Lehigh Coal & Hdw. Co.
LEWISBURG—Dreisbach's, C. Sons
Proctor, G. W. & Son
LEWISTOWN—Franciscus, F. G. (Est. of)
LINWOOD STATION—Wood, N. L. & Bros.
LOCK HAVEN—Candor, A. C. & Co.
McKEESPORT—Bowman Bros. Co., Inc.
Bowman & Wilson
Hartman Hdw. Co.
Patterson, Jas. E.
Serena, John & Co.
Sharples, W. J.
Wishart, A. & Sons Co.
McKEES ROCKS—Young & Schmitt
Blumling, P.
MACUNGIE—Singmaster, J. & Co.
MAHANOY CITY—Ball, H.
MANSFIELD—Rose & McDowell
MAUCH CHUNK—Neast, Chas. & Co.
MEADVILLE—Harris, C. P.
Smith, L. F. Lumber Co.
Stolz, Charles
MECHANICSBURG—Martin, C. & Son
MEDIA—Williamson, C. F.
MERCER—Mercer Milling & Lumber Co.
Zahniser, M. C.
MIFFLIN—Maubeck & Nelson
MONONGAHELA—McCurdy, T. S. & Son
Yohe Bros.
MONROETON—Cranmer & Musselman
MONTROSE—Cooley & Son
MOORES—Moore, G. W. & Co.
MOSCOW—Loveland, J. E.
MOUNT PLEASANT—Husband Lumber Co.
Smith, W. H. & Son
Stevenson, J. A. & Co.
NEW BETHLEHEM—Anderson Hdw. Co.
Andrews', C. E. Lumber Co.
NEW BRIGHTON—Martsolf Bros. Co.
Martsolf, George W.
NEW CASTLE—Kline Lumber & Cons. Co.
Marshall Bros.
NEW FREEDOM—Bahn, Walter D. & Co.
NEW KENSINGTON—Klingensmith, H. A. & Son
McKeen, J. S. & Sons
NEWPORT—Jones, Alvin
NEWTOWN—Worstall Bros. & Co.
NORRISTOWN—Evans, B. & Bro.
Landis, Isaac
Quillman, R.
NORTH WALES—Leister, Jacob H. & Son
OGONTZ—Nagle, Louis A. & Co.
OIL CITY—Borland & Diamond Lumber Co.
Caldwell Lumber Co.
Kern & Co.
United Lumber & Coal Co. (Ltd.)
OLYPHANT—Lally, Jas. H.
PEN ARGYL—Correll, R. S.
OXFORD—Chandler, D. W. & Co.
Dickey, S. R. & Co.
PARKESBURG—Worrell, Jos.
Fitzgerald, Speer Co.
PENLLYN—Davis, L. Y.
PENN STATION—Myers, J. E.
PERRYOPOLIS—Herwick, A. C.
PETERSBURG—Stryker, Sam'l L.
PHILADELPHIA—Ambler H. C. Co. (Inc.), 3444 N 16th
American Cement Co. (Cement Mfrs.), Penn. bldg
Bihlmaier, C. H. Co., 2706 Broad
Borgner Cement Co. (Distributors of Lehigh Portland Cement), 234 N 23d
Bowditch, Walter, 205 E Haynes, Gtn.
Bradley, Walter T. Co., 9th, below Girard av
Budd & Co., 1021 Passy'k av
Clay Products Supply Co., Real Estate Trust bldg
Clymer Cement Pavement, Marshall & Berks
Cox's, C. A. Sons, 2139 N American
Davis, Paul A., Jr., 136 N Water
Dobbs, S. B., Bailey bldg
Dougherty, Cornelius, 1207 Passyunk av
Ebert, Morris, 119 S 4th
Evans, Wm. & Son, 4623 Paul
Fairlamb, P. H. & Co., 115 S 30th
Fitzgerald, John J. & Co., 14 S Broad
France, David Co., Tasker St., Wharf
Fredericks, Chas. C., Wayne av, c Reading Ry Gtn
**FRENCH, SAMUEL H. & CO., York av, 4th & Callowhill.** (See adv. index. end of book)
Fulmer & Henderson, Stenton av (Gtn.)
Gabell, W. T., 2405 Sedgley
Garrett, Jas. & Co., 1432 S Penn sq
Gilbert, Harry W., 9th c Venaugh
Hartranft, Wm. G. Cement Co., Real Estate Trust bldg
Housekeeper, Benj. (Lime), 1526 N American
Kerbaugh Lime Co., Wash'n av, c 15th
Keystone Plaster Co. (Adamant Wall Plaster), Perry blk
Knickerbocker Lime Co. (Inc.), 366 N 24th
Krause, Wm., 1621 N 5th
Kugler, Clarence B., Jr., & Co., Land Title bldg
Kyle, Geo. S., 73d c Grays av
Lesley & Trinkle Co., Penna bldg
Lukens & Yerkes, Stephen Girard bldg
Lyster Supply Co., 30th & Locust
McCleman, H. A. & Bro., 2539 S. 13th
Manayunk Coal & Lime Co., Manayunk
Martin, Hugh T., 1028 Cross
Meng, Anthony & Co., 17 S Front
Peoples Bros., 25th & Callowhill
Prettyman, Harry D.
Robinson, Thos. & Co., Real Estate Trust
Rutan, John W., Heed bldg bldg
Sinn, Geo. A., 4430 Penn
Smith, Edwin A. Son (Lime), 1017 Frankford av
Tyson, Jacob L., 900 Jeff
Vollmer, P. S., 112 N Broad
Warner, Chas. Co. (Wholesale & Retail), Land Title bldg
Williamson, Frank, 24th & Locust
Wilson & Gardner, 235 Armat, Germantown
PHOENIXVILLE—Benjamin, N. H. Co.
PITTSBURG—Birmingham Supply Co., S 17th & Muriel
Blair, Reed F. & Co. (Portland Cement), Frick bldg
Dexter Coal Co., Frick bldg
Duncan & Porter Co., 310 Mendota
Heppenstall & Marquis, 1139 Mellon
Houston Bros. Co., 33d & P. R. R.
Jiles, Jas. Co., 258 John W. Jiles
Keller Bros., 6347 Station
Kennedy, D. J. & Co., 6366 Frankstown av
Knox, Strouss & Bragdon, Juniata & Preble av
Lane, Thos. Co., Lewis bldg
Leggett Wm. T. & Co., 2621 Liberty av
McLain, E. S. & Son (Wyandotte Cement), Fulton bldg
Miller, Mason & Co. (Ltd.), Fulton bldg
Miller & Conlson, Diamond Bank bldg
Munhall, R. J. Lumber Co., 2224 Sidney
National Mortar & Supply Co., 708 2d Nat'l Bank bldg
Patterson Coal & Supply Co., North Side
Pittsburg-Buffalo Co. ("Edison" Cement etc.), Frick bldg
Pope Cement & Brick Co. (Alpha Cement etc.), 421 Wood
Rodgers Sand Co.
Williams, W. H. & Co., 5th & Duquesne
Winfield Sand Co., 602 2d Nat'l Bank bldg
PITTSTON—Dershimer & Griffen
Patterson, J. E. & Co.
PORTLAND—Miller, J. I.
POTTSTOWN—Bailey, M. W.
Fegely, J. & Son
Hallman, Wm.
Halteman, J. L.
Van Buskirk & Bro.
POTTSVILLE—Bright & Co.
Thompson, I. C.
PUNXSUTAWNEY—Brown Hardware Co.
Meredith, W. R.
Robinson Hardware Co.
QUAKERTOWN—Achey, Benj.
Walp, C. H. & Bro.
READING—Ahrens, H. E. & Bro.
Bard Hardware Co.
Bright & Co., 504 Penn
Gring Bros., 6th & Canal
Miller, Daniel
Parker, W. H.
Reading Lumber Co.
Roth, A. L. Co., 45 S 7th
RIDGWAY—Hyde-Murphy Co.
Hyde, W. H. & Co.
ROCHESTER—Miller, Wm. & Sons (Inc.)
Rosemont-Mehl & Latta
ROYERSFORD—Buckwalter, J. A.
SAINT MARYS—Hendl, J. C. & Co.
Ritter, Leonard
SALTSBURG—Davis Bros. & Co.
SCRANTON—Benore, John
Empire Limestone Co. (Gravel)
Hunt, Alex. E.
Keller, Luther, 813 W Lack. av
Maloney Oil & Mfg. Co.
Mason & Snowdon Lumber Co.
Paragon Plaster & Supply Co., 1500 Albright av
Washburn, Williams & Co.
SEWICKLEY—Hays, Alden F.
SHARON—McIntyre, Wm. & Sons
Wallis & Carley
Wishart, A. & Son Co.
SHARPSBURG—Chalfant, A. M.
SHARPSVILLE—Bomback & Miller
Covert & Mehler
SLATINGTON—Dettmer & Handwerk
Fritzinger, William A.
SOMERSET—Laus Bros.
SOUDERTON—Hunsberger, S. D.
Moyer & Son
Souder & Crouthamel
SOUTH BETHLEHEM—Laufer, Milton
SOUTH SHARON—Anderson, W. T.
SPRING CITY—Davis & Mowrey
STEELTON—Couffer & Sultzeberger
Hess, John
SUNBURY—Sunbury Supply Co.
Whitmer, William & Sons Co.
SUSQUEHANNA—Millane, M.
SWARTHMORE—Ogden, C. G. & Co.
THURLOW—(See Chester)
TITUSVILLE—Edwards, H. B.
Hale, W. J.
Shank, I. L.
TOWANDA—Myer, Berlin F.
TROY—Snedeker & Mitchell
Spalding, H. M. & Son
TUNKHANNOCK—Billings, Paul & Co.
TYRONE—American Lime & Stone Co.
Beyer, F. D. & Co.
Franciscus Hardware Co.
Grazier Bros. & Stine
UNION CITY—Union Coal & Supply Co.
VANDERGRIFT—Hunger, Geo. A.
Kimmel, J. G.
WARREN—Pickett Hardware Co.
WASHINGTON—Hart, W. Brit.
Paul & Post
WAYNE—Connor, I. W. & Co.
WAYNESBORO—Gilbert & Gordon
Hess, Daniel W. Sons
Newcomber, J. M. & Co.
WEST CHESTER—Bennett & Lear
Hoopes, Ralston R.
Sharpless, S. E. Lumber Co.
WESTFIELD—Tremain, G. H.
WEST GROVE—Chambers, S. K. & Bros.
WILKES-BARRE—Eastern Penna. Supply Co., 60 S Penna av
Goff Lumber Co.
Morgan's, Charles Sons
Patterson, James E. & Co., 135 N Canal
Phelps, Lewis & Bennett Co.
Ritter, S. V.
Schmitt, John A. Sons
Wilke-Barre Masons' Supply Co.
WILLIAMSPORT—Brown, Clark & Howe
Diamond Wall Cement Co.
Kline & Co.
Stuempfle's, David Sons
YORK—Detwiler Sand Co.
Frey & Thomas
McClellan & Gotwalt Co.
Small, P. A. & S. Co.
Spangler, E. W., Jr.
York Valley Lime Co.
Zinn Bros.
ZELIENOPLE—Kennedy, J. J.

## RHODE ISLAND.

BRISTOL—Wardwell Lumber Co.
EAST PROVIDENCE—Halliday Bros.
NEWPORT—Hammet, A. & H. G., 321 Thames
PAWTUCKET—City Coal Co.
Cottrell, J. T. Co.
Newell Coal & Lumber Co.
Olney & Payne Bros.

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PROVIDENCE—Goff, James C. Co., 31 Point
Harris, Wm. M., Jr., 546 Atwells
Horton, H. R. Co.
McKendall, F'k D., 519 Charles
Manchester & Hudson, 55 Point
Olneyville Hay & Grain Co., 45 Manton
Whaley, J. A. & Co., 39 Smith av
RIVER POINT—Potter, H. W. & Son
WAKEFIELD—Wakefield Lumber Co.
WESTERLY—Babcock & Wilcox
Kenyon, H. T. & Co.
Maxon & Co.
Segar, H. R. Co.
Sherman, Robert A. & Sons Co.
WOONSOCKET—City Lumber Co., River st
Woonsocket Lumber Co., 189 N Main

## SOUTH CAROLINA.

ANDERSON—Anderson, O. D.
Brissey, W. L.
White & Co.
BEAUFORT—Christensen, N. & Son
CHARLESTON—Anderson Lumber Co. (Brick, etc.), West End Broad
Bird, Wm. M. & Co., 205 E Bay
Carolina Portland Cement Co., 194 E Bay
Hughes, Thos., 82 Mary
Johnson, Wm. & Co., E End Lawrens
Southeastern Lime & Cement Co
COLUMBIA—Brown, C. O. & Bro.
Lorick & Lawrence.
GAFFNEY—Builders' Supply Co.
Carroll & Co.
GREENVILLE—Gower Supply Co.
GREENWOOD—Simmons, J. T.
NEWBERRY—Pool, T. C.
SPARTANBURG—Ezell, S. B.
SUMTER—Harby & Co.

## SOUTH DAKOTA.

CHAMBERLAIN—Anderson, J. F. Lumber Co.
MITCHELL—Davis & Daniels Co.
SIOUX FALLS—Sioux Falls Lumber Co.
Ross, H. W. Lumber Co.
Tuthill, J. W. Lumber Co.
WATERTOWN—Stover Construction Co.
Watertown Cement Products Co.
YANKTON—Loonan Lumber Co.
Western Portland Cement Co.

## TENNESSEE.

BRISTOL—Adams Bros. Co. (Inc.)
Mitchell, Powers Hardware Co.
Morton, Lewis & Willey Lumber Co.
CHATTANOOGA—Buquo Lime Co.
Gager Lime & Mfg. Co., 203 Carter
Howard Hydraulic Cement Co., 10 W 8th
Howard Park Brick Co.
Magill Hdw. Co., 729 Market
Wilson, T. T., 1033 Market
CLARKSVILLE—Hurst, Boillin & Co.
HARRIMAN—Dame Mantel Co.
JACKSON—City Lumber Co.
Gardner, O. G. Lumber
JOHNSON CITY—Martin, Jas. A.
KNOXVILLE—Chandler & Co.
Sanford, Chamberlain & Albers Co.
Sullins Coal & Coke Co.
Tenn. Lime & Sand Co.
MEMPHIS—Cubbins Lime & Cement Co., 442
Denie, J. A. Sons, 82 S Front Decatur
Kavanaugh Sand Co., Tenn Trust bldg
Wright Lime & Cement Co., 90 S Third
MORRISTOWN—Baylor, C. E. & Co. st.
MURFREESBORO—Earthman, W. B. & Co.
Williams Bros.
NASHVILLE—Cohn & Goldberg
Hardison, W. T. & Co., 111 S. First
Hoover & Co., 810 Fourth av N
Love, Boyd & Co., ft of S 2d
Nashville Builders' Supply Co., 200 First
Norvell & Wallace, 609 Broadway st N
Ransom, J. B. & Co., 19th av & Clinton
TULLAHOMA—Lawson, T. D. st

## TEXAS.

ALBANY—Rockwell Bros. & Co.
AUSTIN—Austin White Lime Co.
Tips, Walter
BASTROP—Wilbarger, J. L. & Co.
BEAUMONT—Texas Bldrs' Supply Co.
Wilson, E. L. Hdw. Co.
BEEVILLE—Kohler & Haldenfels
CISCO—Burton-Lingo Co.
CLEBURNE—Burton-Lingo Co.
Wilson, H. S.
COLORADO—Burton-Lingo Co.
Roe, A. J.
CORPUS CHRISTI—Sidbury Lumber Co.
CORSICANA—Whitselle Brick & Lumber Co.
DALLAS—Griffiths, T. W. & Co., 103 N Lamar
Moore & Co.
DENISON—Hanna Bros.
Lingo-Leeper Lumber Co.
DENTON—Wilson, J. B. & Co.
EL PASO—Bassett, O. T. & Co.
Courchesne, A.
El Paso Lumber Co.
Sante Fe Fuel Co.
FORT WORTH—Armstrong, J. H. & Co.
Burton-Lingo Co. (Ltd.)
Cameron, Wm. & Co.
Darnell Lbr. Co.
Nash Hardware Co.
Owens, G. W. Lumber Co.
Roe, A. J.
Smith, Cicero Lbr. Co.
Waples-Painter Co.
GALVESTON—Fowler & McVitie, Cotton Exchange bldg
Parr, Wm. & Co., 2108 Strand
GROESBECK—Walker, S. S. & Son
HALLETTSVILLE—Hill, T. A. & Son
HILLSBORO—Lyon, O. T. & Son
HOUSTON—Barthold & Casey
Bland, Jeff Lumber & Building Co.
Browne Builders' Supply Co.
Humphreville, W. E.
Macatee, W. L. & Sons
Street & Graves
Walcott, Frank B.
KERRVILLE—Schreiner, Chas. Co.
LAREDO—Deutz, A. & Bros.
Johnson, S. N.
Johnson & Yaeger
LLANO—Llano Lumber Co.
LULING—Luling Lumber Co.
NAVASOTA—Youens, J. & Co.
ORANGE—Lutcher & Moore Lumber Co
Miller, Link Lumber Co.
Sabine Supply Co.
PALESTINE—Broyles, W. & G. D.
PARIS—Bettes, H. S. Hdw. Co.
SAN ANTONIO—Alamo Cement Co.
Dielman, Jno. C.
SCHULENBURG—Schaefer, H. B.
SHERMAN—Fielder, A. A.
Lyon, O. T. & Son
SWEET WATER—Wilkerson, O. L.
TEMPLE—Campbell, C. M. & Sons
Hollingsworth, Joseph
TERRELL—Muckleroy & Dew
TEXARKANA—Chatfield & Buhrman Hardware Co.
Hoffman Hdw. Co.
VICTORIA—Bailey Mills Co.
Goldman, A.
Levi, A. & Co.
WACO—Brazelton-Pryor & Co.
Cameron, William & Co.
Nash, Robinson & Co., 908 Austin av
Strauss, E.
WILLS POINT—Matthews, N. A. Lumber Co.

## UTAH.

OGDEN—Eccles Lumber Co.
Lowe, Geo. A. & Co.
SALT LAKE CITY—Holman, Payne & Co.
Langton Lime & Cement Co., 341 S State
Morris, Elias & Sons Co.
Morrison, Merrill & Co., 241 N 3d, W
Portland Cement Co. of Utah (Cement Mfrs.), 8th S & 8th W
SPANISH FORK—Jex Lumber Co.

## VERMONT.

BELLOWS FALLS—Bellows Falls Pulp Plaster Co.
BENNINGTON—Loring, J. H. & Co., 113 Depot
BRATTLEBORO—Mellen, J. Edgar
Robbins & Cowles
BURLINGTON—Burlington Grocery Co.
FAIR HAVEN—Reed Coal Co.
MIDDLEBURY—Chapman, T. M. & Co.
MONTPELIER—Hyde, E. D.
NEWPORT—MacDiarmid & Co.
POULTNEY—Bixby, E. M. & Son
Ripley Lbr. Co.
Sherman, S. & Son
RANDOLPH—Lamson, J. H. & Sons
Tewksbury, E. W. & Co.
RUTLAND—Burditt Bros.
Curtis, S. P. & Son
Landon, Walter C. & Co.
ST. ALBANS—Bostwick Bros.
Fonda, W. B.
ST. JOHNSBURY—Caldbeck, M. J. & Son
Ide, E. T. & H. K.

## VIRGINIA.

ALEXANDRIA—Burrough, Thos. F. Son & Co.
Robinson, Geo. H. Sons
Smoot, W. A. & Son
Smoot & Co.
BERKLEY—Cuthrell, John
BERRYVILLE—Baker, H. W.
Phillips', Wm. Bros.
CHARLOTTSVILLE—Wood, Vest & Co.
CHASE CITY—Robert, B. A. & Son
DANVILLE—Fitzgerald, N. A. & T. J.
Swanson Bros. & Co.
FREDERICKSBURG—Cole, E. D.
HAMPTON—Born, L.
Heffelinger Co.
Hudgins Bros.
HARRISONBURG—Snell, J. M. G. Co. (Inc.)
LYNCHBURG—Adams Bros. Payne's Co.
Hutter, C. S.
Williams & Barnett Co.
NEWPORT NEWS—Benson, Philips & Co.
Poarch & So.
Richardson, Robt. E., Va. av & 31st
Weaver Bros., Warwick av
NORFOLK—Batchelder & Collins, 145 Water
Bayne, C. M. & Co.
Builders' Supply Co.
Gamage, J. W. & Co. (Domestic & Imported Cements, Brick, Lime, etc.)
Gamage, Jno. O., Woodside's Wharf
Grinnan, John C., 227 Monticello av.
Jones & Co.
Nottingham & Wrenn Co., 2 Monticello av.
PETERSBURG—Friend & Co.
Marks, L. L. Lumber & Supply Co.
PHOEBUS—Tennis, Edgar M.
PORTSMOUTH—Corprew, Anthony A.
Hawks-Maupin Co.
Lindsay, John B., 803 Crawford
Lindsay & Co.
Oast, Samuel P., 1101 Court
RICHMOND—Baldwin & Brown, 1557 E Main
Hawes, S. H. & Co., 1801 E Cary
Lee, A. S. & Son, 108 S 13th
Moore Lime Co., Dock & 17th
Moore, Warner & Co., 17th & Dock
Sitterding-Carneal-Davis Co.
ROANOKE—Adams, Payne & Gleaves
Central Mfg. Co., Shenandoah av c 2d, N W
Exchange Lumber Co., 15 2d, S W
Wilkinson, J. H., 102 3d, S W
ROSSLYN—Rosslyn Supply Co.
SOUTH BOSTON—Lawson, R. W. & Co.
STAUNTON—Clem Bros.
SUFFOLK—Allen, R. R.
Folk, E. L. & Co.
Shoop, Withers Co.
WARRENTON—Wood, D. P. & Co.
WINCHESTER—Johnson, Davis

## WASHINGTON.

BELLINGHAM—Morse Hardware Co.
NORTH YAKIMA—Fosseen, A. B. & Co.
SEATTLE—Atlas Lumber & Shingle Co., Alaska bldg
Caine, E. E., 608 1st
Carstens & Earles, Lowman bldg
Crowe, F. T. & Co. (Complete Line), Globe bldg
Dally, S. W. R., Colman bldg
Fryer, David E. & Co.
Galbraith, Bacon & Co., ft Madison
Hill Brick Co.
McMullen, J. S. & Co., Ewing c Fremont av
Newell Milling & Mfg. Co., Bradford e 7th
Seattle Sand & Gravel Co. av So S
Washington Brick & Tile Co.
SPOKANE — Crowe, F. T. & Co. (Complete Line)
Dally, S. W. R.
Idaho Lime Co., Division c N. P. R. R.
Washington Brick, Lime & Mfg. Co., Wash'n
TACOMA—Bell's Fuel Co. & Pacific
Cowell, Henry Lime & Cement Co.
Crowe, F. T. & Co. (Complete Line)
Griffin Transfer Co.
Stebbins, Walker & Spinning
Tacoma & Roche Harbor Lime Co., Equitable bldg
Tacoma Trading Co.
WALLA WALLA—Loney, Samuel & Co.
Snell, Geo. H.

## WEST VIRGINIA.

BLUEFIELD—Saxon Lime & Lbr. Co.
BUCKHANNON—Alton Lbr. Co.
Builders' Supply Co.
Drummond, T. B. Co.
CHARLESTON—Burlew, N. S.
Courtney, D. G.
Goshorn Hardware Co.
CHARLESTOWN—Phillips, Wm. Sons
CLARKSBURG—Williams & Davison Co.
FAIRMONT—Lilley, Geo. M.
HUNTINGTON—Miller Supply Co.
Mossman Bros.
HURRICANE—McCallister, Wm. H.
KEYSER—Liller, W. A.
Steorts, H. G.
MORGANTOWN—Huston & Demain
Morgantown Brick Co.
Morgantown Planing Mill Co.

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NEW CUMBERLAND—General Merchandise Co.
PARKERSBURG—Beckwith, Joel
Lowther, M. R. & Co.
Senseman, J. M. Lumber Co.
Wilson, H. S. & Son
WHEELING—Chapman, W. H. & Sons, 1218 Main
Miller & Stein, 1313 Main
Wilson, W. A. & Son, 1215 Main

## WISCONSIN.

ANTIGO—Brehmer, A. F.
Clements, David
APPLETON—Appleton Lumber & Fuel Co.
Cotter, Jas. W.
Fraser, A. A.
Marston Bros. Co.
Ideal Lumber & Coal Co.
ASHLAND—Ashland Lime, Salt & Cement Co.
BARABOO—Johnston, H. M. Lumber Co.
BEAVER DAM—Roedl & Jacobs
BELOIT—Beloit Lumber Co.
City Fuel Co.
Keeler Lumber & Fuel Co.
McGavock Bros.
Rock River Lumber Co.
Star Coal Co.
BERLIN—Wilbur Lumber Co.
BLACK EARTH—Michelson, A. A. & Co.
BLACK RIVER FALLS—Black River Falls Lumber & Mercantile Assn.
BOSCOBEL—Ruka Bros. Mfg. Co.
BURLINGTON—Wilbur Lumber Co.
CEDARBURG—Jochem, Wm. P.
CHIPPEWA FALLS—Clark Grain & Fuel Co.
Coleman, H. B. (Ltd.)
Theriault, J. B.
EAU CLAIRE—Evans-Lee Co.
Lang Construction Co.
FOND DU LAC—Moore & Galloway Lumber Co.
FORT ATKINSON—Wilcox Lumber Co. (Ltd.)
Zengner-Hoffman Lumber Co.
FOUNTAIN CITY—Roettiger, H. & F.
GRAND RAPIDS—Bossert Bros. & Co.
GREEN BAY—Barkhausen, Henry A.
Flatley Bros. Co.
Killman, C. & Co.
Murphy Lumber Co.
HARTFORD—Grimm, John A.
HAYWARD—North Wisconsin Lumber & Mfg. Co.
HONEY CREEK—Wilbur Lumber Co. Co.
JANESVILLE—Brittingham & Hixon Lumber
Kimball Bros. Lumber Co. Co.
Knaller & McKey Lumber Co.
Kraarer, James
LA BEAU—Sette & McCollow
LA CROSSE—Kaukauna Lbr. & Mfg. Co.
Lindauer, L.
MENOSHA—Dunnebacke Co.
North Shore Fuel & Supply Co.
LA CROSSE—Colman, C. L. Lumber Co.
Hart, H. C. Implement Co.
Johnson, W. W. Lumber Co.
North Side Lumber Co.
Sobkowiak, Frank
Stroeh, Jos.
LAKE GENEVA—Durkee, F. M.
Wilbur Lumber Co.
MADISON—Capitol City Fuel Co.
Castle & Doyle
Conklin & Son
Cooley, C. F.
Ratdke, W. J.
MANAWA—Little Wolf River Lumber Co.
MANITOWOC—Johnson, J. G. Co.
Johnson, J. G.
Manitowoc Land & Fuel Co.
MARINETTE—Hamilton & Merryman Co.
Ludington, N. & Co.
Ludtke, John C.
Lyons Bros. & Co.
Merryman, R. W. & Co.
MARSHALL—Wilbur Lumber Co.
MENASHA—Plummer, H. H.
MILTON—Saunders, T. A.
MILWAUKEE—Berthelet, H. Sewer Pipe Co.
Bond & Sarnow Co., 33d & Vliet
Burnham Brick & Supply Co.
Kuenzli, Henry & Co.
Mayer, Daniel, 469 3d
Milwaukee Building Supply Co.
Milwaukee Falls Lime Co., Humboldt av & Milwaukee Sand & Gravel Co. Commerce
Moritz, F. G.
Penna. Coal & Supply Co.
Pipkorn, W. H. & Co., 417 11th av
Ricketson & Schwarz (Brick, Terra Cotta, Tews Bros. etc.), University bldg
Waukesha Lime & Stone Co., 1211 Humboldt av.
Western Lime & Cement Co., Pabst bldg
Wilbur Lumber Co.
MONROE—Becker, Wm. A.
Dodge Lumber Co.
NORTH LAKE—Wilbur Lumber Co.
NORTH MILWAUKEE—Eggert, Charles
OSHKOSH—Cook & Brown Lime Co.
Hollister, Amos & Co.
PLYMOUTH—Kuster & Paasch
PORTAGE—Mohr, C. F.
OSHKOSH—Cook & Brown Lime Co.
Hollister, Amos & Co.
PLYMOUTH—Kuster & Paasch
PORTAGE—Mohr, C. F.
RACINE—Asdahl & Nelson
Stoffel & Brachs
RHINELANDER—Brown Bros. Lumber Co.
Queal, J. H. & Co.
Robbins Lumber Co.
RICHLAND CENTER—Krouskop, A. H.
RIPON—Barnett & Anderson
Horner & Middleton
SAUK CITY—Lachmund Lumber & Coal Co.
SEYMOUR—Droege Hardware Co.
Miller & Piehl
SHEBOYGAN—Ebenreiter & Hilderbrand
SILVER LAKE—Wilbur Lumber Co.
SPRINGFIELD—Wilbur Lumber Co.
SUPERIOR—Superior Mfg. Co.
TWO RIVERS—Gesell, John
WATERLOO—Wilbur Lumber Co.
WATERTOWN—Tetzlaff, H.
WAUKESHA—Palmetier & Abell Lumber Co.
Palmetier & Abell Lumber Co.
Wilbur Lumber Co.
WAUSAU—Barker & Stewart Lumber Co.
Curtis & Yale Co.
Paff, Wm. A.
Stewart, Alexander Lumber Co.
WEST ALLIS—Wilbur Lumber Co.
WESTFIELD—Cochrane, T. H. & Co.

## WYOMING.

LARAMIE—Holliday, W. H. Co.

## 7383—Mast Arms (Arc Lamp, Etc.)

Ajax Line Material Co. ("Jumbo"), So. Milwaukee, Wis.
Brady, T. H., New Britain, Conn.
Buffalo Specialty Co. ("Duplex"), Buffalo, N. Y.
Creaghead Engineering Co., Cincinnati, O.
Cutter, Geo. W. Co. ("Cutter's"), South Bend, Ind.
Davis, M. & Sons, Salem, O.
Electric Railway Equipment Co., Cincinnati, O.
Fletcher Mfg. Co., Dayton, O.
Fort Wayne Electric Works, Fort Wayne, Ind.
Lundin Electric & Machine Co., Boston, Mass.
Pettingell, Andrews Co. ("Philbrick"), Boston, Mass.
Philadelphia Electrical & Mfg. Co. ("Pemco," Made from Pipe), 1232 N 31st, Phila., Pa.
Russell Elec. Mfg. Co., Providence, R. I.
Walls, O. W. & Co., Worcester, Mass.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 7384— Masts & Spars

BOSTON-OREGON MAST CO., 131 Coleridge, East Boston, Mass. (See adv. index, end of book)
Central Lumber Co., Centralia, Wash.
Hoskins, J. S. Lumber Co., Baltimore, Md.
Lawley, Geo. & Son Corp., Boston, Mass.
Northwest Lumber Co., Seattle, Wash.
Ostrander Ry. & Timber Co., Ostrander, Wash.
Pigeon-Fraser Hollow Spar Co. (Clear White Spruce, Hollow & Solid Spars, 20 to 120 ft.), Boston, Mass.
Pope & Talbot, San Francisco, Cal.
Puget Lumber Co., Port Ludlow, Wash.
Puget Mill Co., San Francisco, Cal.
St. Paul & Tacoma Lumber Co., Tacoma, Wash.
SIMMONS, JOHN CO. (Tubular Steel), 104 Centre, New York. (See adv. index, end of book)
Southern Pine Co. of Ga., Savannah, Ga.
Sutton, James B., Mystic, Conn.
Tacoma Mill Co., San Francisco, Cal.
Union Spar Co., Gloucester, Mass.
Woodall, Wm. E. & Co., Baltimore, Md.

## 7385— Match Mfrs.

Budde & Westerman ("Triangle" Brand Importers' Safety), 50 Vesey, New York
Consumers' Match Co., Clifton, N. J.
Diamond Match Co., 111 B'way, New York, & 26 Market, Chicago, Ill.
Fear, Fred Match Co., Bloomsburg, Pa.
Hunter, John T., Evergreen, N. Y.
Illinois Match Co., Joliet, Ill.
Indiana Match Co., Crawfordsville, Ind.
Merkle-Wiley Broom Co., Paris, Ill.
Metropolitan Match Co., San Francisco, Cal.
Michigan Match Co., Detroit, Mich.
Mutual Match Co., Clifton, N. J.
Penna. Match Co., Bellefonte, Pa.
Reliable Match Co., Ashland, O.
Saginaw Match Co., Saginaw, Mich.
Superior Match Co., Detroit, Mich.
Sweden-American Match Co., 230 W 4th, Cincinnati, O.
Union Match Co., Duluth, Minn.
Zan Bros. (Inc.), Portland, Ore.

## 7386— Matchers

(See also Planers & Matchers)
American Woodworking Mach'y Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Chase Turbine Mfg. Co. (Power Feed Matchers, with Glue Pot & Press), Orange, Mass.
Cordesman, Meyer & Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Indiana Machine Works Co., Ft. Wayne, Ind.
Lane Mfg. Co., Montpelier, Vt.
Smith, H. B. Machine Co., Smithville, N. J.
Stetson-Ross Machine Works, Seattle, Wash.
Woods, S A. Machine Co., Boston, Mass.

## 7387—Mats (Asbestos Table)

Chicago Asbestos Table Mat Co. ("Peerless"), 215 Loomis, Chicago, Ill.
JOHNS, H. W.-MANVILLE CO., 100 William, New York. (See adv. index & branch offices, end of book)

## 7388—Mats (Leather Rolling)

National Mat. & Belt Co. (For Cars, Elevators, Schools, Hospitals, etc.), Frankford, Phila., Pa.
New York Leather Belting Co. (Hinged by Wire Rod), 51 Beekman, New York
Page Belting Co., Concord, N. H.
Salisbury, W. H. & Co. (Leather Link), 100 Wabash av, Chicago, Ill.

## Mats (Rubber)

(See Mats & Matting, Rubber)

## 7389—Mats (Steel Corrugated)

Toffler, S. Co. (Inc.) (Galvanized), 841 E 136th, New York

## Mats (Steel Wire)

(See Mats & Mattings, Steel Wire)

## 7390— Mats (Stove)

Keasbey & Mattison Co. (Asbestos), Ambler, Pa.
Oil City Asbestos Co. (Asbestos), Oil City, Pa.
Stuber & Kuck (Asbestos), Peoria, Ill.
Sweeney, W. H. Mfg. Co. (Embossed White Metal, for Oil or Gas Stoves), 30 Main, Brooklyn, N. Y.
Toffler, A. (Steel & Wooden), 725 1st av, New York

## 7391— Mats (Street Car)

(See also Other Mat Classifications)
ACME STEEL GOODS CO., Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Barney & Smith Car Co. (Wooden), Dayton, Ohio
CARY MFG. CO. ("Cary," Flexible Steel), 29 Roosevelt, New York (See adv. index, end of book)
Eichman, Martin & Co. ("Lewis" Wooden, also for Hotels, Elevators, etc.), 256 Loffmer, Brooklyn, N. Y.
ESTEY WIRE WORKS CO. (Also Flexible), 59 Fulton, New York. (See adv. index, end of book)
National Mat & Belt Co. (Flexible Link, Rolling, Leather, Rubber or Steel), Frankford, Phila., Pa.
Toffler, S. Co. (Inc.) (Wooden Folding, etc.), 841 E 136th, New York

## 7392— Mats (Switchboard)

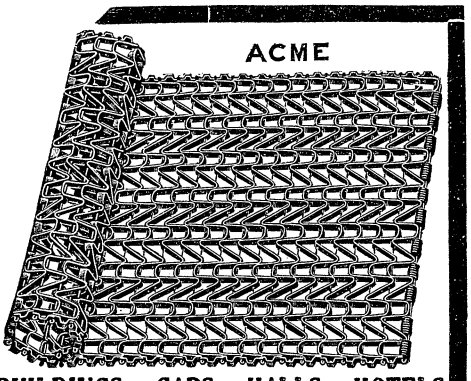
Consumers' Rubber Co. ("Euclid"), Cleveland, Ohio
Massachusetts Chemical Co., Walpole, Mass.

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## 7393—Mats (Wood Rolling)

(See also Mats, Street Car)

Keystone Wire Matting Co., Beaver Falls, Pa.
Toffler, S. Co. (Inc.), 841 E 136th, New York

## 7394—Mats & Matting (Cocoa)

Darragh & Small (Calcutta & Domestic), 177 Water, New York
East India Mfg. Co., Baltimore, Md.
Fels Fibre Fabric Co., Lowell, Mass.
Kempf, Geo. F. & Bro., 1027 N 4th, Phila., Pa.
McCabe, Benj. & Bro., 37 E 18th. New York
Planet Mills Mfg. Co. (Jute Matting), 335 Carroll, Brooklyn, N. Y.
Rancocas Mills ("Diamond J. D."), Trenton, N. J.
Western Penitentiary, Pittsburg, Pa.
Wild, Jos. & Co., 366 5th av, New York

## 7395—Mats & Matting (Rattan, Etc.)

Heywood Bros. & Wakefield Co., Gardner, Mass.

## 7396—Mats & Matting (Rubber)

(See also Tile, Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
Ajax-Grieb Rubber Co., Trenton, N. J.
B. & R. Rubber Co., North Brookfield, Mass.
**BOSTON BELTING CO., 260 Devonshire**, Boston. Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Combination Rubber & Belting Co., Bloomfield, N. J.
Consumers' Rubber Co., Cleveland, O.
Crescent Belting & Packing Co., Trenton, N. J.
Diamond Rubber Co., Akron, O.
Empire Rubber Mfg. Co., Trenton, N. J.
Essex Rubber Co., Trenton, N. J.
Federal Rubber Co., Cudahy, Wis.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Hartford Rubber Works Co., Hartford, Conn.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Massachusetts Chemical Co., Walpole, Mass.
Mechanical Rubber Co., 73 Reade, New York
Modern Rubber Mfg. Co., Trenton, N. J.
Morgan & Wright (Inc.), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National India Rubber Co., Bristol, R. I.
National Mat & Belt Co. (Rubber, Link & Corrugated Rubber Block), Frankford, Phila., Pa.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**NEW YORK RUBBER CO. (Corrugated Matting)**, Reade & Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO. (Corrugated, Cuspidor, Bath Tub, Perforated, Pebble, Pressed, etc.), Jeannette, Pa.** (See adv. index & branch offices, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
Quaker City Rubber Co., 629 Market, Phila., Pa.
Queen Mfg. Co., Webster City, Ia.
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., 77 Bedford. Boston, Mass.
Sayen Rubber Co., Hamilton sq, N. J.
Springfield Tire & Rubber Co. (Bottle, Pitcher & Cuspidor), Springfield
Thermoid Rubber Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Western Rubber Works (Door & Small Mats Only). Goshen, Ind.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 7397—Mats & Matting (Steel)

**ACME STEEL GOODS CO. ("Acme Flexible Reversible Steel Mats)**, Archer & Farrell, Chicago. Ill. (See adv. index branch offices, end of book)
Braun Mfg. Co., Pittsburg, Pa.
**CARY MFG. CO. ("Cary," Everlasting Flexible), 29 Roosevelt, New York** adv. index, end
**ESTEY WIRE WORKS CO.** Flexible), 59 Fulton, New York. index, end
Glen Mfg. Co. ("Hartman" Flexible), City,
Hamblin & Russell Mfg. Co. (Elastic Steel Door Mats), Worcester, Mass.
Jenckes, E. Mfg. Co. (Elastic Steel Door Mats) Worcester, Mass.
Keystone Wire Matting Co., Beaver Falls, Pa.
National Mat & Belt Co. (Flexible Link Rolling, Galvanized), Frankford, Phila., Pa.
Queen Mfg. Co., Webster City, Ia.
Sanitary Wire Matting Co. ("Keystone" Flexible), 1133 B'way, New York
Sleeth Mfg. Co. (Flexible), Belleville, N. J.
**SMITH, F. P. WIRE & IRON WORKS** (Flexible, Flat Steel), 100 Lake, Chicago, Ill. (See adv. index end of book)

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Hendricks' Commercial Register

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## -Mats & Matting (Steel Wire)

...ber Wire & Iron Works, 44 Dearborn, Chicago, Ill.
Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
**ESTEY WIRE WORKS CO. (Also** Flexible), 59 Fulton, New York. (See adv. index, end of book)
Glen Mfg. Co. ("Hartman" Flexible), Ellwood City, Pa.
Keystone Wire Matting Co., Beaver Falls, Pa.
Ludlow-Saylor Wire Co., St. Louis, Mo.
National Mat & Belt Co., Real Estate Trust Bldg., Philadelphia, Pa.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Standard Wire Co. (Jonas Kaufman, Prop.), New Castle, Pa.
U. S. Wire Mat Co. ("U. S. Flexible"), Decatur, Ill.
Williams, Geo. A. & Sons ("Keystone." Flexible), 85 Fulton, New York
Wire Goods Co. ("Elastic" Steel Door Mats), Worcester, Mass.
Worth Wire Works, Fort Worth, Tex.

## 7399—Matting (Electric Floor)

Partrick, Carter & Wilkins Co., 122 N 11th, Phila., Pa.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 7400— Matting (Grass)

American Grass & Twine Co. ("Crex"), 377 B'way, New York
Oshkosh Grass Matting Co. ("Deltop"), Oshkosh, Wis.
Waite Grass Carpet Co., Oshkosh, Wis.

## 7401— Matting (Insulating)

(See Mats, Switchboard)

## 7402— Mattocks

American Axe & Tool Co. (Adze Eye Pick, etc.), Glassport, Pa.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Colclesser Bros., El Dorado, Pa.
Collins Co., Collinsville, Conn.
Cronk & Carrier Mfg. Co. (Garden, etc.), Elmira, N. Y.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Oliver Steel & Iron Co. (Pick & Long & Short Cutter), Pittsburg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Warwood Tool Co., Wheeling, W. Va.
Weston, Thos. B., Baltimore, Md.

## 7403— Mattocks (Asphalt)

Anderson, W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.
Klein-Logan Co. (Long & Short Cutter), Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

## 7403a—Mattress Manufacturers' Supplies

Wayman & Wood Co., 1227 West Carson, Pittsburg, Pa.

## 7404— Mattresses (Air)

Mechanical Fabric Co., Providence, R. I.
National India Rubber Co., Bristol, R. I.

## 7405— Mauls (Coal)

Beall Bros. (Inc.) (Long & Short), Alton, Ill.

## 7406— Mauls (Post)

Barber Mfg. Co., Ashtabula, O.
Eagle Machine Co., Lancaster, O.
Gowanda Agricultural Works, Gowanda, N. Y.
Heath Foundry & Mfg. Co., Plymouth, O.
Indiana Foundry Co., Indiana, Pa.
King & Andrews Co., Chicago Heights, Ill.
Kramer Bros. Foundry Co., Dayton, O.
Lyon Iron Works, Greene, N. Y.
Munnsville Plow Co. (Also Stone Breaking), Munnsville, N. Y.
Ober Mfg. Co., Chagrin Falls, O.
Over, Ewald, Indianapolis, Ind.
Racine Malleable & Wrought Iron Co., Racine, Wis.
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offices, end of book)
Sidney Hollowware Co., Sidney, O.
South Bend Foundry Co., South Bend, Ind.
Sovereign, C. E. Co. (Handled), Rockford, Ill.
Sperry, D. R. & Co., Batavia, Ill.
Swett, A. L. Iron Works, Medina, N. Y.
Wagner Mfg. Co., Sidney, O.
Wapak Hollowware Co., Wapakoneta, O.
Weller Hardware & Fdry Co., Horseheads, N. Y.
Western Fdry & Sash Weight Co., St. Louis, Mo.
Western Implement Co., Port Washington, Wis.
Williams, A. C. Co., Ravenna, O.

## 7407—Mauls (Railroad or Spike)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Billings & Spencer Co., Hartford, Conn.
Beall Bros. (Inc.), Alton, Ill.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Lovejoy Tool Works, 337 Ohio, Chicago, Ill.
Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette (Inc.), Frankford, Phila., Pa.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.

## 7408— Mauls (Rawhide)

Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.

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## 7408a— Mauls (Sewer)

**UNION ELEVATOR & MACHINE CO.** (Wood), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 7409—Mauls (Ship or Top)

Atha Tool Co., Newark, N. J.
Black, John B., Chester, Pa.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co. (Solid Cast Steel), Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette (Inc.), Frankford, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.
**Wilcox, Crittenden & Co., Middletown, Conn.**

## 7410—Mauls (Woodchoppers')

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
**Klein-Logan Co. (Solid Cast Steel), Pittsburg,**
Lehr Agricultural Co., Fremont, O. Pa.
McInnes Steel Co. (Ltd.), Corry, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
**Swett, A. L. Iron Works (Cast Iron), Medina,**
Warwood Tool Co., Wheeling, W. Va. N. Y.

## 7411— Mauls (Wooden)

Hellenberg & Son (Plumbers' & Well Drillers'), Coldwater, Mich.
**PITTSBURG SHOVEL CO. (Hickory,** with Heavy Iron Rings), Oliver bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
**Tatem, J. B. & Son (Heavy), Putnam, Conn.**
Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

## 7412—Mausoleum Doors & Gates

(See also Bronze Doors)

**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av. Chicago, Ill. (See adv. index & branch offices, end of book)
**CABARET, PAUL E. & CO. (Bronze),** 120 11th av, New York. (See adv. index, end of book)
**DETROIT MAUSOLEUM EQUIPMENT** Works (Bronze), Detroit, Mich. (See adv. index, end of book)
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.,** Mount Vernon, N. Y. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
**STANDARD CO., Railway Exchange bldg** Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
**WINSLOW BROS. CO., Main Office &** Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 7412a—Mausoleums (Granite & Marble)

(See also Granite Building Work Cutters & Contractors; also Marble Exterior Work)

**PENNA. MARBLE & GRANITE CO.** Penna. bldg, Phila., Pa. (See adv. index, end of book)

## 7413—Meal (Cotton Seed)

Heller, Hirsh & Co., 62 William, New York

## 7414— Meal (Polishing)

Peckham Mfg. Co., Newark, N. J.

## 7415— Measurers (Horse)

Smith, S. O., 24 Prospect, Newark, N. J.

## 7416—Measures (Automobile Gasoline)

Hill Dryer Co., Worcester, Mass.

## 7417—Measures (Galvanized Iron)

Lisk Mfg. Co., Ltd. ("Lisk" for Grain, etc.), Canandaigua, N. Y.

## 7417a—Measures (U. S. Standard)

**WILSON, F. CORTEZ, & CO.** (Tin, Copper & Galvanized Iron), 239 Lake, Chicago, Ill. (See adv. index, end of book)

## 7418— Mechanical Draft

American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
Engineer Co. (Balanced Draft), 50 Church, New York
Green Fuel Economizer Co., Matteawan, N. Y.
McPherson, W. G. Co., Portland, Ore.
New York Blower Co., 25th pl & Stewart av. Chicago, Ill. Factory: Bucyrus, O.
**Parson Mfg. Co.** ("Parson" System), 149 B'way, New York
Sauer Power Generating Co. (Apparatus for Furnaces), Pittsburg, Pa.
Steacy-Schmidt Mfg. Co. (Induced Draft Fans), York, Pa.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices. end of book)

## 7418a—Mechanical Parts

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## Mechanical Schools

(See Engineering Schools & Colleges)

## 7419— Mechanical Stokers

(See also Furnaces, Smokeless)

American Ship Windlass Co. ("Taylor" Underfeed), Providence, R. I.
American Stoker Co. ("Automatic"), 11 B'way, New York
Babcock & Wilcox Co., 85 Liberty, New York
Brightman Furnace Co., Cleveland, O.
Barnett, Oscar, Foundry Co. ("Universal" Automatic Smokeless Traveling Chain Grate), Newark, N. J.
Casey-Hedges Co., Chattanooga, Tenn.
Crowe Stoker Co. ("Crowe" Pressed Steel Grate Bars), 47 Montgomery, Jersey City, N. J.
Detroit Stoker & Foundry Co., Detroit, Mich.
Erie Foundry Co. ("Erie"), Erie, Pa.
Green Engineering Co. ("Green" Chain Grate & "Harrington" Automatic), 39 Jackson blvd, Chicago, Ill.
Hamler Boiler & Tank Co. ("Little Giant"). 3906 S. Halsted, Chicago, Ill.
Harrisburg Foundry & Machine Works ("Ross"), Harrisburg, Pa.
Hawley Down Draft Furnace Co., 736 W Monroe, Chicago, Ill.
Illinois Stoker Co. (Chain Grate Stokers), Alton, Ill.
Little Giant Stoker Co., 3906 S Halsted, Chicago, Ill.
Locomotive Stoker Co., 204 Dearborn, Chicago, Ill.
McKenzie Furnace Co. (Traveling Grate, Chain Grate, Coking, Coal, etc.), 84 Van Buren, Chicago, Ill.
Model Stoker Co. ("Model" Automatic Smokeless), Dayton, Ohio
Murphy Iron Works, Detroit, Mich.
Parson Mfg. Co. ("Parson's"), 149 B'way, New York
Ridgway Mfg. Co. ("Elliott"), Ridgway, Pa.
Rosedale Foundry & Machine Co. ("Playford" Chain Grate Stoker), N S, Pittsburg, Pa.
S. & S. Automatic Grate Co. (Automatic), 50 Indiana, Chicago, Ill
Sarco Fuel Saving or Engineering Co., 90 West New York
Swift Fuel Co. ("Swift"), Security bldg, Chicago, Ill.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Under Feed Stoker Co. of America ("Jones' Underfeed), Harris Trust bldg, Chicago, Ill.
**WESTINGHOUSE MACHINE CO.** ("Roney"), Westinghouse Bldg., Pittsburg, Pa. (See adv. index, end of book)
Wetzel Mechanical Stoker Co., Trenton, N. J.
Wilkinson Foundry & Mfg. Co. "Wilkinson" Automatic), Bridgeport, Pa.

## 7419a— Medals

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)

## 7420— Megaphone Mfrs.

Cowles, C. & Co. (Electric Megaphone Speaking Tubes), New Haven, Conn.
Hiller, J. G. (Cardboard Megaphones for Advertisers), 112 N 14th, Louisville, Ky.
Herriman Bros., 696 E 1st, S B, Boston, Mass.
Pratt, Z. I. Co., 158 W 27th, New York

## 7421— Memorial Windows

Benziger Bros., 38 Barclay, New York
Bryant Bros. Art Glass Co., Columbus, O.
Butterworth, T. C., 15 Polk, San Francisco, Cal.
California Art Glass Bending & Cutting Works, San Francisco, Cal.
Century Stained Glass Works (Ltd.), 212 S 11th, Phila., Pa.
Church Art Work Co., 151 E 18th, New York
Colgate Art Glass Co., 8 Gansevoort, New York
Crowninshield, Fredk., 42 W 18th, New York
Dayton Art Glass Wks., Dayton, Ohio
Decorative Glass Co., 3248 Chestnut, Phila., Pa.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Dougherty, James, 201 E 16th, New York
Dukes, Henry Glass Works (T. W. Tulton, Prop.), 2129 Market, Phila., Pa.
Eberhardt, Hugo & Co., 2411 W 12th, Chicago, Ill.
Flagg, L. G. & Co., Sudbury bldg, Boston, Mass.
Flanagan & Biedenweg Co., 312 W Illinois, Chicago, Ill.
Ford Bros., Minneapolis, Minn.
Godwin, Albert, 1343 Arch, Phila., Pa.
Grimm, A. C., 155 E 23d, New York
Haskins Glass Co., Rochester, N. Y.
Hausletier, J. & Co., 173 Atlantic av, Brooklyn, N. Y.
Heinigke & Bowen, 24 E 13th, New York
Hooker, H. M. Co., 651 W Wash'n, Chicago, Ill.
Janes, Walter, 138 W 42d, New York
Kerwin, E. F., Ornamental Glass Co., 925 N 6th, St. Louis, Mo.
Lamb, J. & R. (Inc.), 25 6th av, New York
Louisville Art Glass Co., Louisville, Ky.
Mackay & Co., Los Angeles, Cal.
Maginn, Charles, 17 E 14th, New York
Mayer & Co., 47 Barclay, New York
Morgan Bros., 707 Gates, Brooklyn, N. Y.
Morgan, John & Sons, 32 E 9th, New York, & 17 Union av, Brooklyn, N. Y.
Munich Art Glass Co., 510 Turk, San Francisco, Cal.
O'Halloran's, Thos. Sons, 127 Van Buren, Newark, N. J.
Payne, Geo. Hardy, Paterson, N. J.
Petgen Glass Co., Hamilton & 5th ave., Pittsburg, Pa
Quaker City Stained Glass Works, 1407 Vine, Phila., Pa.
Rae, G., & Co., 436 W B'way, New York
Redding, Baird & Co., 178 Devonshire, Boston, Mass.
Reith, Wm., 134 N 7th, Philadelphia, Pa.
Righter & Kolb, 156 5th av, New York
Riordan, G. C. & Co., 133 E 5th, Cincinnati, Ohio
**SCHULER-MUELLER CO., 314 W Su-**perior, Chicago, Ill. (See adv. index, end of book)
Sellers, Benjamin, 80 Bible House, New York
Spence, Bell & Co., 90 Canal, Boston, Mass.
Spiers, Richard N., 859 6th av, New York
Summers, Charles, 239 Nassau, Brooklyn, N. Y.
Tiffany Studios, 347 Madison av, New York
Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., 2000 Locust, St. Louis, Mo.
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.
Wood Glass Co., Syracuse, N. Y.

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## 7422– Menders (Hose)

American Foundry & Mfg. Co., St. Louis, Mo.
Cassady-Fairbank Mfg. Co. ("Samson"), 6106 La Salle, Chicago, Ill
Claflin, Chas. A. & Co. ("Sure-Hold"), 60 High, Boston, Mass.
Cooper Hose Mender Co. ("Cooper"), Providence, R. I.
Elkhart Brass Mfg. Co. (Iron), Elkhart, Ind.
Hamblin & Russell Mfg. Co. ("Magic" Garden), Worcester, Mass.
Hudson Hose Mender Co. ("Hudson"), Melrose, Mass.
Hudson Parer Co. ("Hudson"), Leominster, Mass.
Knox Mfg. Co. (For Drill & High Pressure Hose), 704 Arch, Phila., Pa.
Kohler, F. E. & Co. ("Little Wonder"), Canton, O.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Sommer, John Faucet Co., Newark, N. J.
Standard Brass & Iron Works, Milwaukee, Wis.
Stortz, Jno. & Son ("Little Giant"), 210 Vine, Phila., Pa
Stuber & Kuck ("Perfect" Clinching), Peoria, Ill.

## 7422a–Mercurial Heat Generators

Honeywell Heating Specialty Co. ("Honeywell"), Wabash, Ind.

## Merry-Go-Rounds

(See Carousels, Organs, Etc.)

## 7423– Metal (Acid Proof)

**BUFFALO FOUNDRY & MACHINE Co.**, Buffalo, N. Y. (See adv. index, end of book)
Keystone Bronze Co. ("Keystone," "Valens"), Pittsburg, Pa.
**LAWRENCEVILLE BRONZE CO. (For Tin Plate Machinery)**, 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)

## 7424–Metal Bridging for Joist & Studding

**BOSTWICK STEEL LATH CO., 480** Griswold, Niles, O. (See adv. index, end of book)

## 7424a–Metal (Britannia)

Standard Rolling Mills (Casting, Rolling & Refining), 363 Hudson av, Brooklyn, N. Y.
Toothill, John, Rochelle Park, N. J.

## Metal Ceilings

(See Ceilings, Sheet Steel)

## 7425–Metal (Compressed)

Chase Rolling Mill Co., Waterbury, Conn.

## 7425a–Metal (Expanded)

Buffalo Expanded Metal Co., D. S. Morgan bldg, Buffalo, N. Y.
**CONSOLIDATED EXPANDED METAL** Co.'s, Keenan bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Eastern Expanded Metal Co., 101 Tremont, Boston, Mass.
Expanded Metal Co. of Phila., Camden, N. J.
Expanded Metal Engineering Co., 1182 B'way, New York
**GENERAL FIREPROOFING CO.**, Youngstown, O. (See adv. index & branch offices, end of book)
Northwestern Expanded Metal Co., 84 Van Buren, Chicago, Ill.
Youngstown Iron & Steel Co., Youngstown, O.

## 7426– Metal (Extruded)

**MERCHANT & EVANS CO. (Inc.) (Angles,** Channels, Rods, etc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## Metal Furring

(See Furring & Lathing, Iron)

## 7426a– Metal Grounds

**UNION METAL CORNER CO. (For Base), 144 Pearl, Boston, Mass. (See adv. index, end of book)**

## 7427–Metal (Igniter Point)

Strelinger, Chas. A., Co. ("Casalloy") Detroit Mich

## 7428–Metal Importers & Exporters

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 7428a– Metal-Loyed-Flux

**NEW ERA MFG. CO. (The Non-**Tempering Deoxidizer), Kalamazoo, Mich. (See adv. index, end of book)

## 7429– Metal Lumber

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)

## 7430– Metal (Monel)

American Sheet & Tin Plate Co. (Jobbers), Pittsburg, Pa.
Orford Copper Co., 43 Exchange pl, New York

## 7431–Metal (Non-Corrosive)

United Steel Co. ("Enders"), Canton, O.
Vanadium Metals Co., Pittsburg, Pa.

## 7432–Metal (Non-Tarnishing)

Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## 7433–Metal Novelties ("Nicolene")

National Sheet Metal Co., Peru, Ill.

## 7434–Metal Novelties & Specialties

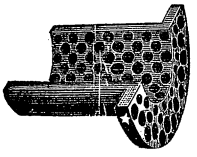
Acme Mfg. Co. (Sheet Metal), Waterbury, Conn.
Acorn Brass Mfg. Co. (Stamped, Turned, Spinning & Drawing), Aurora, Ill.
Aluminum Goods Mfg. Co. (Aluminum), Manitowoc, Wis.
American Enamel Co., Providence, R. I.
American Pin Co. (Stamped & Spun Turned from Rod, etc.), Waterbury, Conn.
Ansonia Novelty Co., Ansonia, Conn.
**ARROW CAN CO., Warren & Church,** New York. (See adv. index, end of book)
Baker & Co. (All Kinds Platinum Work), Newark, N. J.
Barrows Lock Co., Lockport, Ill.
Bronson, Homer D., Co. (From Brass, etc.), Beacon Falls, Conn.
Buescher Band Instrument Co. (Sheet Brass & Aluminum, in Casting, Stamping, Turning or Plating), Elkhart, Ind.
Chamberlain, J. H. D. Co., 275 Main, Springfield, Mass.
**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)
Chelsea Mfg. Co., Chelsea, Mich. Elkhart, Ind.
Clark Novelty Co. (Made from Brass & Steel Rods, etc.), Rochester, N. Y.
Consolidated Fruit Jar Co., New Brunswick,
Cook, H. C. Co., Ansonia, Conn. N. J.
Crosby Co. (Sheet Metal Stamping & Drawing), 171-189 Pratt, Buffalo, N. Y.
Domestic Novelty Co., Newark, N. J.
Dowst Bros Co., 124 N Ann, Chicago, Ill.
Florence Mfg. Co. (Aluminum Brushes, etc.), Florence, Mass.
Fargo, E. A. Co. (Aluminum, etc.), Taunton, Mass.
Gaynor & Mitchell Mfg. Co. (Special Sheet Metal Goods), Bridgeport, Conn.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Goertz, Aug., & Co. (Fancy Metal Goods), Newark, N. J.
Goodwin & Kintz Co. (From Brass, Aluminum, Nickel, etc.), Winsted, Conn.
Grammes, L. F. & Sons (Wrought Brass, etc.), Allentown, Pa.
Havell Mfg. Co. (Gilt, Silvered, Nickel Plated, Brass, Steel & Enameled), 284 Wash'n, Newark, N. J.
Hero Mfg. Co. (Aluminum, etc.), Gaul & Adams, Phila., Pa.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Illinois Pure Aluminum Co. (Aluminum Combs, Hair Pins, Thimbles, etc.), Lemont, Ill.
Keyes–Davis Co. (Ltd.), Battle Creek, Mich.
Lockwood Co., Newark, N. J.
McKenna Bros. Brass Co. (Ltd.), Pittsburg, Pa.
Mergott, J. E. Co. (Fancy Metal Goods), Newark, N. J.
Mossberg, Frank Co. (Sheet Metal, Stamped & Punched), Attleboro, Mass.
Mossberg Wrench Co. (Sheet Metal Stampings), Central Falls, R. I.
Newark Sheet Metal Ware Co., 50 Elm, Newark, N. J.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Novelty Mfg. Co. (Brass Mounting & Trimmings), Waterbury, Conn.
Oakville Co. (Pins, etc.), Oakville, Conn.
O'Neill & O'Neill (Fancy Metal Goods), Newark, N. J.
Parke, Jno. Y. & Co. (Brass Goods for Hardware Trade), 127 N 7th, Phila., Pa.
Poeter, E. & Co. (Fancy Metal Goods), Newark, Riley-Klotz Mfg. Co., Newark, N. J. N. J.
Salo Art Metal Co. (Etched, etc.), 20 Collier, Binghamton, N. Y.
Sparks, Withington Co. (Sheet Metal), Jackson, Tenn.
Success Mfg. Co. (Ash Sifters, Roof Flanges),
Thompson, Mrs. Frank K. (Brass), Elkhart, Ind.
Torrington Mfg. Co. (Brass & Iron), Torrington, Conn.
Troy Stamping Works (Novelties), Troy, N.Y.
Turner Brass Works, Sycamore, Ill.
**TURNER & SEYMOUR MFG. CO. (Of All** Descriptions), Torrington, Conn. (See adv. index, end of book)
Union Novelty Mfg. Co. (Wood, Iron, Metal etc.), 1338 Charles, Indianapolis, Ind.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
Watson-Porter-Watson Co. (Ltd.), Unadilla, Mich.
Waterbury Brass Goods Corporation (Made from Brass), Waterbury, Conn.

## 7435– Metal Polish

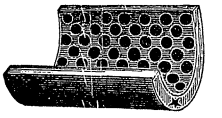
A B Polish Co., Chicago, Ill.
Adams & Elting Co. ("Meto Bright"), Chicago, Ill.
Advance Grease & Chemical Co. ("Advance" Liquid or Paste), Jackson, Mich.
Adro Co. ("Adro"), 31 Park row, New York
Advance Packing & Supply Co. ("Advance") Chicago, Ill
Acme Polish Co. ("Acme"), Pittsburg, Pa.
Allen, L. B. Co. ("Al-Lectro" for Metal & Glass), 1123 Columbia av, Chicago, Ill.
Allers, Harry A. ("Solarine"), 505 N Fulton av, Baltimore, Md.
American Oil & Disinfectant Co., 264 Pearl, New York
Armiger Chemical Co. ("Rex" Cream), 2152 Austin av, Chicago, Ill.
Arnstein, Eugene ("Shine-All"), 3611 Wentworth av, Chicago, Ill.
Atlantic Refining Co., Cleveland, O.
Aurora Mfg. Co., South Orange, N. J.
Auto-Bright Mfg. Co. ("Auto-Bright"), 36 John, Buffalo, N. Y.
Ben-Hur Metal Polish Co. ("Ben-Hur"), Brazil, Ind.
Bennett, E. W. & Co., San Francisco, Cal.
Brown Specialty Machinery Co. ("Aseptine"), Jackson boul & Clinton, Chicago, Ill.
Callery, W. W. & Co., Pittsburg, Pa.
Cleaner Mfg. Co. ("Polishine," Liquid Paste & Powder), 2842 Olive, St. Louis, Mo.
Cleanola Co. ("Spe-De-Shyne"), Pittsburg, Pa.
Colgon Mfg. & Supply Co. ("Peerless"), 42 South, New York
Copper Polish Co., Canal Dover, O.
Diamond Luster & Polish Co., Rockford, Ill.
Duquesne Polish Co. ("Duquesne"), Pittsburg, Pa.
Edmonds, J. Wesley & Son ("Edmond's Electric"), 214 Franklin, New York
Fairchild, M. H. & Bro., 20 W Michigan, Chicago, Ill.
Fiebing Chemical Co. ("Fiebing" Lusterine), Milwaukee, Wis.
Grady Mfg. Co. ("Scouree," "U-No," "Putz," "Glittershine," "Army & Navy," "National, "Compound"), 509 W 30th, New York
Gramlich Chemical Co. ("Bar Boy's Friend"), Detroit, Mich.
Greene Mineral Paste Co., Keene, N. H.
Harris, A. W. Oil Co. ("Harris-Scouree"), Providence, R. I.
Harvey Chemical Co. ("Pride of the Bar Room" Powder, "Pride of the Housekeeper," "American" Liquid, Paste, "Superior Silver," "Majestic"), Lafayette, Ind.
Hatt, Chas. E., Polish & Chemical Co. ("Hatt's" Rubbing Polish), 388 Michigan av, Detroit, Mich.
Hensel & Meyer, 2116 Barry av, Chicago, Ill.
Hercules Chemical Co., 1904 W Van Buren, Chicago, Ill.

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# OILLESS BEARINGS



**"METALINE"**
(TRADE MARK)
Registered in United States.
For use in Loose Pulleys, Tackle Block and Wire Rope Sheaves, and many other places. Correspondence Solicited.



**NORTH AMERICAN METALINE CO.,** 4 WEST AVENUE, LONG ISLAND CITY, N. Y.


Hinds & Coon ("Ruby-Rub"), 126 Pearl, Boston, Mass.
Hoffman, Geo. W. ("U. S." Infallible Paste, Powdered & Liquid, "Bar Keepers' Friend"), 549 E Washington, Indianapolis, Ind.
Hoffman, J. W. Co. ("Anchor"), 6 Medford, Boston, Mass.
Hollingshead, R. M. Co. ("Electro-Shine"), Camden, N. J.
International Metal Polish Co. ("Blue Ribbon"), 2142 N Capitol av, Indianapolis, Ind.
Johnston, Wm. T. Co. ("Moonshine Brand"), Cincinnati, O.
Justice, A. R. Co. ("U-Kan-Plate"), 607 Chestnut, Phila., Pa.
Kettler Brass Mfg. Co. ("Ickwood"), Houston, Tex.
Kimball, C. M., Winthrop, Mass.
Kortum Mfg. Co. ("Zircon"), Buffalo, N. Y.
Landers, Frary & Clark ("L. F. & C." Cleaning & Polishing Powder for Gold, Silver Plated Ware, etc.), New Britain, Conn.
**Leader Chemical & Mfg. Co. ("Metal-Brite"), St. Louis, Mo.**
Martin & Martin ("E-Z"), 3005 Carroll av, Chicago, Ill.
Matchless Metal Polish Co. ("Mexoline" Liquid Non-Inflammable, "Matchless" Paste), 151 Varick, New York
Mepham, Geo. S. & Co., East St. Louis, Ill.
Met-Ol Polish & Mfg. Co., 623 W Division, Chicago, Ill.
Michigan Stove Co. ("Garland," Nickel), Detroit, Mich., & Chicago, Ill.
Miller Bros. & Co. ("Sterling" Silver Polish & "Dazzler" Putty Liquid), 347 Greenwich, New York
Mills, H. W. & Co. ("Croftstein"), Paterson, N. J.
Modoc Co. ("Modoc," Brass Polish), Fernwood, Pa.
Moore, E. C. & Sons Co. ("Moore"), Detroit, Mich.
Mutual Auto Accessories Co. of America ("Skidoo," "23" & Hand Soap), 1937 B'way, New York
National Tripoli Co. (Tripoli), Columbus, O.
National Cement Mfg. Co. (Liquid), Toledo, O.
Oriental Rouge Co. ("Oriental" Rouges), Bridgeport, Conn.
Patton Paint Co. ("Sunbright"), Milwaukee, Wis.
Paul, J. C. & Co. ("Burnshine"), 59 Dearborn, Chicago, Ill.
Peerless Mfg. & Sales Co. ("Peerless Putz," for Brass, Nickel, etc.; also for Household Purposes), 1011 Chestnut, Phila., Pa.
Prindwille, L. A. & Co., 34 Wabash av, Chicago, Ill.
Rath Mfg. Co. ("Imperial," "Staraline," "Swiss Shine," "Golden Sceptre," "High Shine"), Headley & Richmond, Phila., Pa.
Reid, W. W. Mfg. Co. ("Reid's" Putz), 131 State, Boston, Mass.
Reith, E. B. Metal Polish Co., 2010 Larrabee, Chicago, Ill.
Rochester Chemical Co., Rochester, N. Y.
Schlegel, Oscar, Mfg. Co. ("Lustreine" Liquid), 111 E 12th New York
Sheppard, W. S. ("Prestoshine"), 21 Lawrence, Newark, N. J.
Silverdip Mfg. Co. ("Silverdip," Cleans Gold & Silver), 38 Park row, New York
Solarine Co., 153 N Carpenter, Chicago, Ill.
Solshine Mfg. Co. ("Solshine"), 204 Milk, Boston, Mass.
Sonneborn, L. Sons (Inc.) ("Amalia" Paste, Liquid & Non-Burning), 262 Pearl, New York
Steward, D. M. Mfg. Co. ("Stained" Powder for Cleaning & Polishing everything), Chattanooga, Tenn.
Tarbox Mfg. Co., New London, Conn.
Taylor, Gilbert D., 3812 S State, Chicago, Ill.
Trafton, F. M. Co. ("Brilliant"), Somerset, Mass.
Ulrich & Co. ("A-O. K.," "Raydo" Liquid & Dry), Buffalo, N. Y.
Utility Co., 636 W. 44th, New York
Walsh, John F. Co. ("Ideal" Liquid & Paste), Pittsfield, Mass.
Welch, A. J., 1210 Wrightwood av, Chicago, Ill.
Winn, Wm. R. ("Winn"), 143 Maiden la, New York
Wright, J. A. & Co. ("Red Star" Powder), Keene, N. H.

## 7435a—Metal Polish (For Locomotive Fronts)

**DIXON, JOS. CRUCIBLE CO., Jersey City, N. J.** (See adv. index & branch offices, end of book)

## 7436—Metal Sash & Mouldings

Anderton, Ralph L., 210 Grand, New York
**CLASON ARCHITECTURAL METAL** Works (Metal Sash Only) Works: 428 Kinsley av, Providence, R. I. (See adv. index end of book)
**JONES, TREVOR F. & CO. (In Aluminum, Bronze, etc.), 374 W B'way, New York.** (See adv. index, end of book)

## 7437— Metal (Silver)

Empire Metal Co. (For Bright Galvanizing), Syracuse, N. Y.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## 7438—Metal Threshold (Air Tight)

Pittsburg Air Light Metal Door Sill Co., Pittsburg, Pa.

## 7439—Metal (Yellow Muntz)

Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**HUNGERFORD, U. T. BRASS & COPper Co.** (Plates, Sheets, Nails & Rods), 497 to 503 Pearl, New York
Illinois Smelting & Refining Co., 410 N Peoria, Chicago, Ill.
**MERCHANT & EVANS CO., (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book
Michigan Copper & Brass Co., Detroit, Mich.
Taunton-New Bedford Copper Co., New Bedford, Mass.

## Metal (Tungsten)

(See Ferro-Tungsten)

## 7440— Metaline

**NORTH AMERICAN METALINE CO., 4** West av., Long Island City, N. Y. (See adv. index, end of book)

## 7441— Metallic Sash Bars

Anderton, Ralph L., 210 Grand, New York
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index end of book)
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Coulson, J. W. & Co., Columbus, O.
Detroit Show Case Co., Detroit, Mich.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Hester Mfg. Co. ("Hester"), Portland, Ore.
**JONES, TREVOR F. & CO., 374 W** B'way, New York. (See adv. index, end of book)


Trevor F. Jones. Henry H. Jones
Established 1883.
**TREVOR F. JONES & CO.,**
Manufacturers of
Metal Sash Bars and Mouldings for Store Fronts,
Covering of WoodWork in Aluminum, German Silver, Nickel, Brass, Bronze, Copper, etc.
*374 West Broadway, New York City.*
Tel. 2759 Spring.


**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
National Sheet Metal Co., Peru, Ill.
Phillips, John, & Co., Detroit, Mich.
Rochester Show Case Works, Rochester, N. Y.
Thorne Hold-Fast Metal Bar Co. (Inc.), 280 River, Troy, N. Y.
Volz Mfg. Co., St. Joseph, Mo.
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)

## 7441a— Metals (Aluminum)

Empire Metal Co. (For Casting), Syracuse, N. Y.
**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)

## Metals (Anti-Friction)

(See Babbitt Metal; also Bearings, Various Kinds)

## 7442—Metals (Antimonial Lead)

**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)

## 7443— Metals (Antimony)

**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)

## 7444— Metals (Bismuth)

Empire Metal Co., Syracuse, N. Y.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## 7445— Metals (Copper)

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 7446—Metals (Electrotype, Linotype, Monotype, Stereotype, Etc.)

American Smelting & Refining Co., Cincinnati, Ohio
Blatchford, E. W., 70 N Clinton, Chicago, Ill.
Bogue Lead Co., Denver, Col.
Empire Metal Co., Syracuse, N. Y.
Hiertz Metal Co., 10th & Poepping, St. Louis, Mo.
Hoyt Metal Co., 4153 Clayton av, St. Louis, Mo.
Illinois Smelting & Refining Co., Kinzie & Peoria, Chicago, Ill.
Johancen, S. & Co., 737 E Pratt, Baltimore, Md.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Nassau Smelting & Refining Works, 607 W 39th, New York
National Lead Co., 111 B'way, New York
Peerless Smelting & Refining Co., Phila., Pa.
Pittsburg White Metal Co., 160 Leroy, New York
Schulz, A. & Co., 1016 E Baltimore, Baltimore, Md.
Selby Smelting & Lead Co., San Francisco, Cal.
Williams, E. A. & Son, Jersey City, N. J.

## 7446a—Metals (Magnesium)

**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)

## 7447—Metals (Manganese)

**LEAVITT, C. W. & CO., 34 Church,** New York (See adv. index, end of book)

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## 7448— Metals (Nickel)

**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## Metals (Old)

(See Scrap Iron & Steel)

## 7449—Metals (Perforated)

Atchison Perforating Co., 303 Dearborn, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Perforated Metal Co., Belleville, N. J.
Beckley Perforating Co., Garwood, N. J.
California Perforating Screen Co., 416 Harrison, San Francisco, Cal.
Central Stamping Co., 174 Fulton, New York
Clinton Wire Cloth Co. (For All Purposes), Clinton, Mass.
Cross Engineering Co. (Stone Screens a Specialty), Carbondale, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Erdle Perforating Co., Rochester, N. Y.
Harrington & King Perforating Co., 614 N Union, Chicago, Ill.
Hendrick Mfg. Co., Carbondale, Pa.
**HUNGERFORD, U. T. BRASS & COPPER** Co. (Brass, Copper, Iron or Steel), 497 Pearl, New York
Johnston & Chapman Co., 2906 Carroll av, Chicago, Ill.
Littleford Bros., 453 E Pearl, Cincinnati, O.
Manhattan Perforated Metal Co., 237 Centre, New York
Matthiesen & Heyeler Zinc Co. (Zinc Only), La Salle, Ill.
**MERCHANT & EVANS CO. (Inc.)** (Brass, Copper, Iron or Steel), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mundt, Charles & Sons, 53 Fairmount av, Jersey City, N. J.
Novelty Mfg. Co. (Also Embossed), Waterbury, Conn.
Oliver, James & Co., Rochester, N. Y.
**PITTSBURG CONVEYING MACHINE**ry Co., Pittsburg, Pa. (See adv. index, end of book)
Seibel-Suessdorf Copper & Iron Mfg. Co., St. Louis, Mo.
Towne & Co. (C. H. Kimball, Prop.) (For Centrifugal Linings & Copper Bottoms for Wood Scouring Purposes), Worcester, Mass.
Throop Perforating Co., Buffalo, N. Y.

## 7450—Metals (Plated Sheet)

National Sheet Metal Co. (Nickel, Tin & Zinc, Bronzene, Brassene, Copperene, etc.), Peru, Ill.

## 7451— Metals (Platers)

**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Pilling Brass Co. (Thin Gauges of Rolled Brass, Bronze, German Silver & Copper), Waterbury, Conn.

## 7451a— Metals (Rare)

**LEAVITT, C. W. & CO., 34 Church, New York** (See adv. index, end of book)

## 7452— Metals (Silicon)

Carborundum Co., Niagara Falls, N. Y.

## 7452a— Metals (Silver)

Empire Metal Co. (For Bright Galvanizing), Syracuse, N. Y.

## 7453— Meter Provers

American Meter Co., 561 47th, New York
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
McDonald, D. & Co., Albany, N. Y.
New York Improved Meter Co., 306 E 47th, New York
Phoenix Meter Co., Camden, N. J.
**PITTSBURG METER CO., East Pittsburg, Pa.**
Standard Meter Co., 3117 N 12th, Phila., Pa.

## 7454— Meter Seals

Columbus Meter Seal Mfg. Co. (For Gas & Water), Columbus, O.
Keystone Seal & Press Co. ("Keystone"), 30 Church, New York
Peerless Seal Co. ("Peerless"), Columbus, O.

## 7455— Meters (Acetylene)

Cleveland Gas Meter Co., Cleveland, O.
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
Griffin, John J. & Co., 1513 Race, Phila, Pa.
Keystone Meter Co., Royersford, Pa.

## 7455a—Meters (Arrow Water)

**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 7455b— Meters (Auto)

(See Meters, Speed Indicating)

## 7456— Meters (Beer)

**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 7457— Meters (Cut)

**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
Schuchardt & Schutte ("Cito" for Measuring Cutting Speed of Machine Tools), 90 West, New York
Warner Instrument Co. (For Measuring Cutting Speed), Beloit, Wis.

## 7458— Meters (Disc)

**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 7459—Meters (Distance Recording)

Bullard Specialty Co. (Speedometer & Odometer Combined), Springfield, Mass.
Chrono-Velocimeter Co., 1215 Filbert, Phila., Pa.
Du Vivier, Ernest H., 30 Church, New York
Hoffecker Co., Park sq, Boston, Mass.
Loring, E. J. (Speedometer & Odometer Combined), Springfield, Mass.
Sibley & Pitman ("Abell"), 26 Warren, New York
Smith, R. H. Mfg. Co. (Speedometer & Odometer Combined), Springfield, Mass.
Star Speedometer Co. (Speedometers & Odometers Combined), Danville, Pa.
Stewart-Clark Mfg. Co., 1848 Diversey, Chicago, Ill.
Veeder Mfg. Co. ("Veeder" Cyclometers, Odometers), Hartford, Conn.
Webb Mfg. Co., 60 Shipman, Newark, N. J.

## 7459a—Meters (Electric)

(See Wattmeters; also Ammeters & Voltmeters)

## 7460—Meters (Frequency)

Biddle, James G. ("Frahm," Portable Imported), 1112 Chestnut, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Holtzer-Cabot Electric Co., Brookline, Mass.
Machado & Roller, 203 B'way, New York
Weston Electrical Instrument Co., Newark, N. J.

## 7461— Meters (Fuel Gas)

American Meter Co., 561 W 47th, New York
Chaplin-Fulton Mfg. Co. ("Keystone"), Pittsburg, Pa.
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.

## 7462— Meters (Gas)

American Meter Co. (Wet & Dry), 561 W 47th, New York
Cleveland Gas Meter Co., Cleveland, O.
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
Equitable Meter Co. ("Equitable" Dry), Pittsburg, Pa.
Gas Machinery Co. (Station), Citizens' bldg., Cleveland, O.
Griffin, J. J. & Co., 1513 Race, Phila., Pa.
Helme & McIlhenny, 1339 Cherry, Phila., Pa.
Keystone Meter Co., Royersfort, Pa.
La Porte Gas Meter Co., La Porte, Ind.
McDonald, D. & Co. (Dry), Albany, N. Y.
Metric Metal Works (Natural & Artificial Gas) Erie, Pa.
N. Y. Improved Meter Co., 306 E 47th, New York
Ohio Gas Meter Co. (Tin), Cleveland, O.
Phoenix Meter Co., Camden, N. J.
**PITTSBURG METER CO. ("Westinghouse"** Gas & "Westinghouse" Proportional), East Pittsburg, Pa.
Rotary Meter Co. (Rotary Meter), 280 B'way, New York
St. John, G. C. ("St. John" Indicating & Recording), 40 Cedar, New York
Sprague Meter Co. (Cast Iron), Bridgeport, Conn.
Standard Meter Co. (Natural & Artificial Gas), 3117 N 12th, Phila., Pa.
Standard Meter & Mfg. Co. (Natural & Artificial Gas), 433 W 42d, New York
Tufts, Nathaniel Meter Co., Boston, Mass.

## 7463—Meters (Grade Indicating)

Adams Co., Dubuque, Ia.
Motor Car Supply Co. ("Updown"), 1453 Michigan av, Chicago, Ill.
Sussfeld, Lorsch & Co., 90 Maiden la, New York
Willis, E. J. Co., 8 Park pl, New York

## 7464—Meters (Hot Water)

**PITTSBURG METER CO., East Pittsburg, Pa.**
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 7465— Meters (Oil)

Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Buffalo Meter Co. ("The Niagara"), 290 Terrace, Buffalo, N. Y.
National Meter Co., 86 Chambers, New York
**PITTSBURG METER CO., East Pittsburg, Pa.**
**ROCKWELL FURNACE CO., 26 Cortlamdt,** New York. (See adv. index, end of book)
**UNION WATER METER CO., Worcester,** Mass. (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 7466—Meters (Photometer)

American Meter Co., 561 W. 47th, New York

## 7467— Meters (Piston)

**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 7468— Meters (Pocket)

American Ever Ready Co. ("Ever Ready" for Testing Batteries), 308 Hudson, New York
Connecticut Telephone & Electric Co. ("Connecticut" for Testing Batteries), Meriden, Conn.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Kent, Atwater Mfg. Works ("Kent" Electric), 46 N 6th, Phila., Pa.
Robert Instrument Co. (Battery Testing), Detroit, Mich.

## 7469—Meters (Prepayment Gas)

American Meter Co., 561 W 47th, New York
Cleveland Gas Meter Co., Cleveland, O.
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
Helme & McIlhenny, Phila., Pa.
Keystone Meter Co., Royersford, Pa.
McDonald, D. & Co. ("Glover"), Albany, N. Y.
N. Y. Improved Meter Co., 306 E. 47th, New York
Phoenix Meter Co., Camden, N. J.
**PITTSBURG METER CO., East Pittsburg, Pa.**
Sprague Meter Co. (Cast Iron), Bridgeport, Conn.
Standard Meter & Mfg. Co., 433 W 42d, New York

## 7470—Meters (Proportional Gas)

Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
Equitable Meter Co. ("Wylie"), Pittsburg, Pa.
**PITTSBURG METER CO. ("Westinghouse"),** East Pittsburg, Pa.

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## 7471—Meters (Recording Complaint)

Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.

## 7472—Meters (Speed Indicating)

(See also Indicators, Speed)

Bullard, J. H. (Speedometer, Odometer & Clock Combined), Springfield, Mass.
**CHICAGO PNEUMATIC TOOL CO.** ("Boyer"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Chrono-Velocimeter Co., 1213 Filbert, Phila., Pa.
Du Vivier, Ernest H., 30 Church, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hoffecker Co., Park sq, Boston, Mass.
Jones Speedometer Co. ("Jones"), 250 W 54th, New York
Loring, E. J. (Also Speedometers & Odometers Combined), Somerville, Mass.
Monitor Speed Recorder Co., Cambridge, Mass.
Motor Car Specialty Co. (Combination Speed Meter, Odometer & Clock), Trenton, N. J.
Nicholson Ship Log Co. ("Nicholson" for Motor Boats, Yachts, etc.), Cleveland, O.
Rollins Mfg. Co. (Combined Speedometers & Odometers), Park sq, Boston, Mass.
Smith, R. H. Mfg. Co. ("Springfield" Speedometer & Odometer Combined), Springfield, Mass.
Stecker Electric & Machine Co. ("Oliver"), Detroit, Mich.
Uncas Specialty Co., Norwich, Conn.
Veeder Mfg. Co. ("Veeder Tachometer"), Hartford, Conn.
Warner Instrument Co. ("Warner" Auto-Meter), Beloit, Wis.
Webb Mfg. Co., Newark, N. J.
Wheelock Motor Car Clock Co. ("Wheelock" Speedometers & Odometers combined), Tremont bldg, Boston, Mass.
Wood Speedometer Co., 103 Sudbury, Boston, Mass.

## 7473— Meters (Station)

American Meter Co., 561 W. 47th, New York
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Helme & McIlhenny, 1339 Cherry, Phila., Pa.
McDonald, D. & Co, ("Hinman" Station Meter Drum, Wet), Albany, N. Y.
Phoenix Meter Co., Camden, N. J.
Rotary Meter Co. (Rotary Meter), 280 B'way, New York
Standard Meter Co., 3117 N 12th, Phila., Pa.
Tufts, Nathaniel, Meter Co., Boston, Mass.

## 7474— Meters (Steam)

American District Steam Co. ("Holly" & "Simplex" Condensative), No. Tonawanda, N. Y.
Central Station Steam Co. ("Detroit"), Detroit, Mich.
Clyde Machine Works Co., 39th & Union av, Chicago, Ill.
**GENERAL ELECTRIC CO. (Indicating & Recording)**, Schenectady, N. Y. (See adv. index & branch offices, end of book)
McCrum-Howell Co. ("Richmond," Indicating & Recording), 103 Park av, New York
Pearce, W. H. & Co. ("Crescent" Condensation), 269 Dearborn, Chicago, Ill.
St. John, G. C. ("St. John," Indicating & Recording), 140 Cedar, New York
Sargent Steam Meter Co. ("Sargent"), 152 Lake, Chicago, Ill.

## 7475— Meters (Test)

American Meter Co., 561 W 47th, New York
Dickey, Chas. H. & Co. ("Maryland"), Baltimore, Md.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
New York Improved Meter Co., 306 E 47th
Phoenix Meter Co., Camden, N. J. New York
Standard Meter Co. (Portable), 3117 N 12th, Phila., Pa.

## 7476—Meters (Turbine Water)

**WORTHINGTON, HENRY R., B'way & Cedar**, New York. (See adv. index & branch offices, end of book)

## 7476a— Meters (Velocity)

**BRISTOL CO. ("Bristol's"), Waterbury, Conn.** (See adv. index & branch offices, end of book)

## 7477— Meters (Water)

American Valve & Meter Co. ("Cincinnati" "Acorn"), Cincinnati, O.
Buffalo Meter Co. ("American" "Niagara"), Buffalo, N. Y.
Builders' Iron Foundry ("Venturi" for Boiler Feed Waters), Providence, R. I.
Desper, H. A. Mfg. Co. ("Reliance"), Worcester, Mass.
Gammon Meter Co., Newark, N. Y.
Hersey Mfg. Co. ("Detector," Disc, Rotary & Torrent), 314 W 2d, Boston, Mass.
National Meter Co. ("Empire"), 86 Chambers, New York
Neptune Meter Co. ("Trident"), 90 West, New York
Simplex Valve & Meter Co. ("Simplex" for Large Pipes), 112 N. Broad, Phila., Pa.
**PITTSBURG METER CO. ("Eureka" & "Keystone"), East Pittsburg, Pa.**
Standard Water Meter Co., 245 Robinson, Brooklyn, N. Y.
Thomson Meter Co. ("Lambert"), 110 Bridge, Brooklyn, N. Y.
**UNION WATER METER CO. ("King," "Union," "Columbia," "Nilo"), Worcester, Mass.** (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way & Cedar**, New York. (See adv. index & branch offices, end of book)

## 7478—Meters (Watthour)

Sangamo Electric Co. (Integrating, Direct & Alternating Current), Springfield, Ill.
**WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 7479— Mica

(See also Mica, Ground & Pulp)

American Mica Co. (Stove & Electrical), Newton Lower Falls. Mass.
Asheville Mica Co., Asheville, N. C.
Black Hills Mica Co., Auburn, N. Y.
Chicago Mica Co. ("Micabond"), Valpariso, Ind.
Consolidated Mica & Quarrying Co., 56 Pine, New York
Dielectric Mfg. Co. (Insulating), St. Louis, Mo.
Fitzgibbon Mica Co., Beverly, Mass.
Gildersleeve, Walter, Gildersleeve, Conn.
Great Southern Mica Co., Cleveland, O. Works: Asheville, N. C.
Loos & Dilworth (Stained & Pulp), 134 S Front, Phila., Pa.
Meirowsky Bros. ("Megohmite"), 131 Liberty, New York
Mica Insulator Co. (Micanite), 68 Church, New York
Mica Mfg. Co., 152 Chambers, New York
Munsell, Eugene & Co., 68 Church, New York
National Gum & Mica Co. (Ground & Pulp, etc,), 502 W 45th. New York
New York Mica & Mfg. Co., Auburn, N. Y.
North Carolina Mica Co., 84 North, Boston, Mass., & 45 E Lake, Chicago, Ill.
Plas Mica Co. (Soluble Mica), Yonkers, N. Y.
Preston, R. K. Co., Monadnock blk., Chicago, Ill.
Richmond Mica Co. (Ground, etc., Miners & Mfrs.), Richmond, Va.
Shoonmaker, A. O. (Importer), 66 Park pl, New York
Standard Mica Co. of N. C., 150 B'way, New York
Standard Mica Mining Co., 150 Nassau, New York
Storrs Mica Co. (Headlight Chimneys, Lantern Globes. etc.), Owego, N. Y.
Tar Heel Mica Co., Plumtree, N. C.
United States Mica Co. (Sheet, Ground, Electric Plate, Washers, Discs & Flake Lubricant), 238 La Salle, Chicago, Ill.
Vance, D. T., Plumtree, N. C.
Vance, T. B. (Ground), Plumtree, N. C.
Warner, C. D., Boston, Mass.
Watson Bros., Boston, Mass.
Whittaker, W. H., 245 Front, New York

## 7480—Mica (Ground & Pulp)

(See also Mica)

Atlas Mineral & Machine Co., Lincoln, N. J.
Loos & Dilworth, 134 S Front, Phila., Pa.
National Gum & Mica Co., 502 W 45th, New York
Richmond Mica Co. (Miners & Mfrs.), Richmond, Va.
United States Mica Co., 238 La Salle, Chicago, Ill.
Vance, T. B. (Ground), Plumtree, N. C.
Whittaker, W. H., 245 Front, New York

## Mica Insulators

(See Insulators)

## 7481— Mica Schist

**RUTLAND FIRE CLAY CO. (Pulverized), Rutland, Vt.** (See adv. index & branch offices, end of book)

## 7482— Micrometers

Automatic Level Co. ("Hights," Grade Finder & Level), Toledo, O.
Brown & Sharpe Mfg. Co., Providence, R. I.
Emerson Apparatus Co. (Inside), 251 Causeway, Boston, Mass.
Gilbert, Harris & Co. (Universal Micrometer Caliper), 158 E Harrison, Chicago, Ill.
Massachusetts Tool Co. (Outside & Inside), Greenfield, Mass.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**SLOCOMB, J. T. CO., 29 Oxford,** Providence, R. I. (See adv. index, end of book)
Smith, E. G. Co. ("Columbia" Screw), Columbia, Pa.
**STARRETT, L. S. CO. (Outside, Inside & Metric)**, Athol, Mass. (See adv. index & branch offices, end of book)
Syracuse Twist Drill Co., Syracuse, N. Y.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 7483— Microscopes

Bausch & Lomb Optical Co., Rochester, N. Y.
Eimer & Amend, 18th & 3d av, New York
Gundlach-Manhattan Optical Co., Rochester,
Leitz, Ernest, 30 E 18th, New York N. Y.
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Sargent, E. H. & Co., 143 Lake, Chicago, Ill.
Sauveur & Boylston (Metallurgical), Cambridge, Mass.
Scientific Materials Co., Pittsburg, Pa.
Spencer Lens Co., Buffalo, N. Y.
Thomas, Arthur H. Co., 12th & Walnut, Phila., Pa.
Wilson-Maeulen Co., Princes Bay, N. Y.

## 7484— Microtomes

Bausch & Lomb Optical Co., Rochester, N. Y.
Spencer Lens Co., Buffalo, N. Y.

## 7485— Milammeters

Weston Electrical Instrument Co., Waverly Park, N. J.

## 7486— Milk-Shakers

Erie Specialty Co., Erie, Pa.
Watkins, Jas. Y. & Son, 16 Catherine, New York

## 7487— Mill Cogs

Bowsher, N. P. Co. (Wooden), South Bend. Ind.
Cover, H. S. (Dressed), South Bend, Ind.
Menasha Mfg. Co. (Hard Maple), Menasha, Wis.
Nordyke & Marmon Co., Indianapolis, Ind.

## 7487a—Mill White (Rice's)

**U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I.** (See adv. index, end of book)

## 7488—Mill & Factory Supplies

(Firms indicated by a Star (*) Manufacture Belting also)

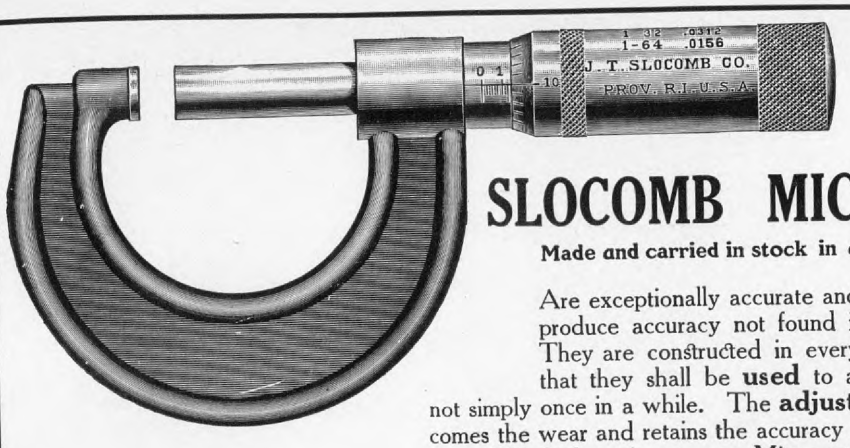
(See also Belting & Belt Appliances; also Waste, Cotton & Wool; also Gears; also Hangers; also Lubricating Oils & Greases; also Machinery, Power Transmission; also Packing Mfrs., etc.; also Pipe & Boiler Coverings; also Shafting)

For all other Mill & Engineers' Specialties, see Index of Contents.

### ALABAMA.

ANDALUSIA—Benson Hardware Co.
ANNISTON—Anniston Supply Co.
BIRMINGHAM—Continental Gin Co.
Crane Co. (of Chicago, Ill.) Est., 1855. (See adv index, end of book)
Jefferson Plumber & Mill Supply Co.
Moore-Handley Hardware Co.
Yates, J. A. & Co.
McClary-Jennison Co. (Also Mine)
Young & E. Vann Supply Co. (Also Mine)

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**Made and carried in stock in all sizes to 18 inches**

Are exceptionally accurate and have features which produce accuracy not found in other micrometers. They are constructed in every detail with the idea that they shall be **used** to a considerable extent, not simply once in a while. The **adjustment** properly overcomes the wear and retains the accuracy of the tool.

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Made so as to produce a correct center in lathe work. Easy cutting tools made for accurate and satisfactory work.

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**J. T. SLOCOMB CO.** PROVIDENCE, R. I., U. S. A.






# HENDRICKS' COMMERCIAL REGISTER

has been acknowledged as the best of all similar publications. It is commended by the leading Trade Journals and is used by the largest firms and corporations in all lines of business. : : : : : : :


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that we are consulted by thousands of Buyers annually, who request us to *"put them in touch"* with the manufacturers of the best products in all lines of trade and that we are frequently asked to recommend the ONE which we consider to be *the best* in a particular line ... ...

?

**Hendricks' Commercial Register**


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GADSDEN—Ewing Hardware Co. (Also Mine)
GREENVILLE—Henderson, C. C. Machine
Johnson Hardware & Implement Co. Co.
MOBILE—American Supply Co.
Barney-Cavanagh Hardware Co.
Cunningham Hardware Co.
Mellett, Richard
Southern Hardware & Supply Co.
Standard Equipment Co.
Turner Supply Co.
MONTGOMERY—Alabama Machinery & Sup-
Barnett, G. W., Hardware Co. ply Co.
Janney & Co.
Lum Machinery Co.
Snow-Tullis Hardware Co.
OPELIKA—Phillips, Yarbrough Hdwe. Co.
SELMA—Union Iron Works Co.
TALLADEGA—Michael Supply Co.

## ARIZONA TERRITORY.

NOGALES—Roy & Titcomb (Inc.), (Also Mine)
PHOENIX—Thayer, Ezra W. (Also Mine
PRESCOTT—Hill, Samuel Hardware Co. (Also Mine)
TUCSON—Steinfeldt, Albert & Co. (Mine)

## ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply
DARDANELLE—Cox, Thos. Mach'y Co. Co.
FORT SMITH—Atkinson-Williams Hardware
Ketchum Iron Co. Co.
Speer Hardware Co.
HELENA—Tappan Hardware Co.
HOPE—Hope Hardware Co.
HOT SPRINGS—Hot Springs Plumbing & Ma-
LITTLE ROCK—Crane Co. chine Co.
Fones Bros. Hardware Co.
Jones, D. E. Co.
Rose-Lyon Hardware Co.
Rosenbaum, C. E. Machinery Co.
Wehrfritz, E. C. Machinery & Supply Co.
Wing & Stephens Co.
MAGNOLIA—Davis, J. L. & D. M.
PINE BLUFF—Dilley Foundry Co.
Fox Bros. Hardware Co.
Fox-Harris Machinery & Supply Co.

## CALIFORNIA.

ARCATA—Arcata Hardware Co.
BAKERSFIELD—**FAIRBANKS, MORSE & Co.**
GRASS VALLEY—Alpena Hdw. & Supply Co.
Grass Valley Hardware Co. (Also Mine), Noeil Rd.
LOS ANGELES—Anderson, Lore & Co.
Baker & Hamilton, 136 N Los Angeles
Boynton, H. R. Co. (Also Mine), 214 N Los Angeles
*Busch, A. H. Co., 150 N Los Angeles
California Hardware Co.
Crane Co. (of Chicago), Est. 1855, 126 N Los Angeles. (See adv. index, end of book)
Ducommun, C. (Also Mine), 300 N Main
**FAIRBANKS, MORSE & CO., 136** S Los Angeles. (See adv. index, end of
Harronn, Rickard & McCone book)
Henshaw, Bulkley Co., 335 E Third
Pacific Coast Mfg. Co., 126 S Los Angeles
Smith-Booth-Usher Co. (Also Mine), 214 S Los Angeles
Union Hardware & Metal Co., 411 E. 1st
Union Well Supply Co.
United Iron Works
Warren & Bailey Mfg. Co. (Belting, etc.), 359 N Main
Wigmore, John & Sons Co., 108 N Los
OAKLAND—United Iron Works Angeles
REDDING—McCormack-Saeltzer Co.
SACRAMENTO—Baker & Hamilton
Schaw-Batcher Co.
SAN DIEGO—Western Metal Supply Co.
SAN FRANCISCO—Arnold Hdw. Co., 1442
Atkins, E. C. & Co., 21 Main O'Farrell
Baker & Hamilton
Barton Packing & Rubber Co.
California Belting & Supply Co., 1425 Mis-
California Saw Works sion
Cameron Bros. Co. (Also Mine), 132 Market
*Cook, H. N. Belting Co., 317 Howard
Crane Co. (of Chicago), Est. 1855, 1st &
*Degan, L. P. Belting Co. Howard
Dunham, Carrigan & Hayden (Also Mine), 150 Kansas
**FAIRBANKS, MORSE & CO., 158 1st.** (See adv. index, end of book)
Garlock Packing Co.
Golden State & Miners' Iron Works, 237 1st
Graton & Knight Mfg. Co., 30 Fremont
Harron, Rickard & McCone (Inc.)
Hendy, Joshua Iron Works, 63 Fremont
Henshaw, Bulkley & Co., 219 Spear
Horsford Bros. Co., 107 Main
Kelly & Jones Co.
Marwedel, C. W., 258 9th
*New York Belting & Packing Co. (Branch of New York), 605 Mission
Pacific Hardware & Steel Co. (Also Mine), 7th & Townsend
Phoenix Tool & Valve Co.
San Francisco Engineering Co.
San Francisco Mill Furnishing Co., 142 1st
Taber-Biglow Co. (Inc.), 113 Main
Tay, Geo. & Co.
United Iron Works
Wagner, Jos. Mfg. Co., 103 Mission
Western Railway & Mill Supply Co.
Wooden & Little
STOCKTON—Austin Bros.
Holt Mfg. Co.

## COLORADO.

BLACK HAWK — Clark Hardware Co. (Also
BOULDER—Whiteley, M. S. Mine)
CRIPPLE CREEK—Cripple Creek Mine & Supply Co. (Also Mine)
DENVER—Card, C. S. Iron Works Co.
Dillon Hardware Co., 1525 15th
**FAIRBANKS, MORSE & CO., 1600** 17th. (See adv. index, end of book)
Flint-Lomax Elec. & Mfg. Co., 1400 Delgany
Garlock Packing Co.
Great Western Machinery Co.
Hendrie & Bolthoff Mfg. & Supply Co., (Also Mine)
Holden Machinery & Supply Co.
Leyner, J. George Engineering Works Co.
Mine & Smelter Supply Co., 17th & Blake (Also Mine)
Montgomery, J. H. Machinery Co.
Morse Bros. Machinery & Supply Co.
Onderdonk Engineering Co., 406 17th
Scott Supply & Machinery Co. (Also Mine), S.-H. Supply Co., 1732 Wazee 1725 Blake
Stearns-Roger Mfg. Co., 1724 California
OURAY—Arps Bros. Hardware Co. (Also Mine & Smelter)
TELLURIDE—Tompkins-Cristy Hardware Co.

## CONNECTICUT.

BRIDGEPORT—Crane Valve Co.
Hardware & Supply Co.
Hawley Hardware Co.
Hawley, Thomas & Co.
Hunter & Havens
Lyon, Grummon Manson Co.
*Palmer, N. & Co.
Winn, William R.
BRISTOL—Schaffer, Marsh Co.
Weldon, S. A. & Son
DANBURY—Danbury Hardware Co.
Hoyt, H. W. Co.
DANIELSON—General Supply Co.
Jacobs, E. H. Mfg. Co. (Textile)
DERBY—Hallock, F. Co.
HARTFORD—Bidwell, J. C. & Co.
Blodgett & Clapp Co.
Clapp & Treat
Ensworth, L. L. & Son
Fairbanks Co.
Hartford Mill Supply Co.
Plimpton & Hills Corporation
Tracy, Robinson & Williams Co.
MERIDEN—Cashen, Keegan & Cashen
Church & Morse
MIDDLETOWN—Noxon & Whitney Co.
NEW BRITAIN—Abbe, A. H. & E. W.
Mills, Herbert L.
Rapelye, George
NEW HAVEN—Bushnell, N. T. Co., 289 State
Coe & Brown, 202 George
Fasket & Bishop Co.
Mersick, C. S. & Co. (Belting, Packing, etc.), 286 State
NEW LONDON—Darrow & Comstock Co.
Eaton & Wilson
Williams, Geo. M.
NORWALK—Hubbell & Staples Hdwe. Co.
NORWICH—Brown, Robert
Eaton-Chase Co.
Norwich Belt Mfg. Co.
Preston Bros.
PUTNAM—Chandler & Morse
ROCKVILLE—Harris, C. E.
SEYMOUR—Seymour Lumber & Hardware Co.
SOUTH MANCHESTER—Blish, F. T. Hdw. Co.
SOUTH NORWALK—Dow, Chas. E.
STAFFORD SPRINGS—Brown & Lovell
STAMFORD—Davenport, John S. & Son
Wilson, James & Co.
THOMASTON—Welton, H. A.
TORRINGTON—Agard Hardware Co.
Morrison, W. H.
UNION CITY—Page, J. M. & Co.
WALLINGFORD—Dickerman Hardware & Supply Co.
WATERBURY—Connecticut Oil Co.
Daly, M. J. & Sons
Hamilton Hardware Corp.
Hotchkiss & Templeton
Wilson, D. B. Co.
WILLIMANTIC—Clark & Hurley Co.
WINSTED—Carroll, Jos. L.

## DELAWARE.

WILMINGTON—Capelle Hardware Co.
Delaware Electric & Supply Co.
Delaware Hardware Co.
Industrial Supply Co.
Kent, Lindley C. Co.
McComb, Thomas, 209 Shipley
Peoples, Alfred D.
Speakman Supply & Pipe Co.
Wilson Hardware Co.
Woodward & Bro.

## DISTRICT OF COLUMBIA.

WASHINGTON—Chesapeake Supply Co.
Howard, Henry J. M. Mfg. Co., 915 E, N W
Mitchell, John, Jr., 1000 Pennsylvania av
National Electrical Supply Co., 1330 New
Schafer, E. G. & Co. York av, N W
Somerville, Thos. Co.

## FLORIDA.

GAINESVILLE—Baird Hardware Co.
Gainesville Hardware Co.
JACKSONVILLE—Atlantic Supply Co. (Also
Christopher, John G. Co. Mine)
Florida Hardware Co. (Inc.)
Georgia Supply Co.
Hubbard, S. B. Co. (Inc.)
Ploof, H. E. Machinery Co.
LIVE OAK—Hair Hardware Co.
OCALA—Marion Hardware Co. (also Mine)
PENSACOLA—Avery Hardware & Supply Co.
Pensacola Iron Works & Supply Co.
ST. AUGUSTINE—Hamblen, C. F.
TAMPA—Cameron & Barclay Co.
Knight & Wall Co.
Tampa Hardware Co.

## GEORGIA.

ALBANY—Albany Mill Supply Co.
AMERICUS—Harris, J. W.
Sheffield-Huntington Co.
ATLANTA—Armstrong, R. S. & Bro.
Atkins, E. C. & Co.
Beck & Gregg Hdw. Co., 64 Marietta
Cotton States Belting & Supply Co. (Rail-way, Mill & Mach'y Supplies)
Dunn Machinery Co.
General Supply Co.
Graton & Knight Mfg. Co., 93 S Forsyth
Lowry Co., 41 E Alabama
Malsby Co., 41 S Forsyth
Phenix Supply Co.
Southern Belting Co., 44 S Forsyth
AUGUSTA—Lombard Iron Works & Supply Co.
BRUNSWICK—Downing Co. (Also Naval Stores)
COLUMBUS—Beach, Wm. Hardware Co.
Bush, Phillips Hardware Co.
Golden Foundry & Machine Co.
DALTON—Finley & Son
FITZGERALD—Watt & Holmes Hardware Co.
FORT VALLEY—Georgia Agr'l Works
GAINESVILLE—Gainesville Iron Works
MACON—Mallary Mill Supply Co.
Schofield's, J. S. Sons Co.
ROME—Battey Machinery Co. (Also Mine)
Georgia Foundry & Machine Co.
SAVANNAH—Georgia Supply Co.
Hartfelder-Garbutt Co.
McKenna, Jas. H., 25 York
Peeples, H. H. & Sons
Rourke, Jno. & Sons
Weed, J. D. & Co.
TIFTON—Tift, H. H.
TOCCOA—Matheson, W. A.
Simpson & Co.
VALDOSTA—Briggs, W. H., Hardware Co.
WAYCROSS—Harley, P. N. Hardware Co.

## HAWAII.

HONOLULU—Catton, Neil & Co. (Ltd.)
Hall, E. O. & Son (Ltd.)
Honolulu Iron Works Co.

## IDAHO.

BOISE—Carlson-Lusk Hardware Co.
Eastman-Teller Hardware Co. (Ltd.)
Idaho Hdw. & Plumbing Co. (Also Mine)
Northrop Hardware Co.

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LEWISTON—Means, Mark Co. (Ltd.)
Myers & Topping Hardware Co.
Nineman Hardware Co.
WALLACE—Cœur D'Alene Hdw. Co. (Also Mine)

## ILLINOIS.

BELLEVILLE—Hucke, Albert
Karr Supply Co.
BELVIDERE—Fellows, J. H. & Son
BLOOMINGTON—Keiser-Van Leer Co.
BRADLEY—Burrell Mfg. Co.
BUSHNELL—Bushnell Pump Co.
CAIRO—McCarthy & Malinski
Woodward Hardware Co.
CHICAGO—Acme Asbestos Covering & Supply Co., 1840 Austin av
Adams, Fred C., 702 W Division
Adkins, Young & Allen Co., 21 S Clinton
Advance Packing & Supply Co., 123 Frank-
*Allen, W. D. Mfg. Co., 151 Lake lin
Atkins, E. C. & Co., 28 Lake
Atlas Belting Co., 152 E Lake
Besly, C. H. & Co., 124 N Clinton
Brand, S. H. Co., 612 W Monroe
Burrell Mfg. Co., 21 S Clinton
**CALDWELL, H. W. & SON CO.,** 17th & Western av. (See adv. index, end of book
**CARPENTER, GEO. B. & CO., 202** S Water. (See adv. index, end of book)
Channon, H. Co., Randolph & Market
Chicago Bailey Co., 260 Clark
*Chicago Belting Co., 125 N Green
Chicago Engineers' Supply Co., 112 Lake
Chicago Junk & Wrecking Co., W 35th & Iron
Chicago Mine & Mill Supply Co., 42 Michigan av
Chicago Pulley & Shafting Co., 32 S Clinton
*Chicago Rawhide Mfg. Co., 1301 Elston av
Clow, Jas. B. & Sons, 344 Franklin
Collins, Wm. P. & Co., Great Northern bldg
Cook & Chick Co., 18 E Kinzie
Crane Co. (Est. 1855), 1214 S Canal. (See adv. index, end of book)
Crerar, Adams & Co., 239 E Erie
Curtis & Co. Mfg. Co., 215 Desplaines
Davies Supply Co., 410 W Ontario
Dodge Mfg. Co., 214 S Clinton
**FAIRBANKS, MORSE & CO., 481** Wabash av. (See adv. index, end of book)
Fenscholt & Fenchner, 16 S Clinton
Garlock Packing Co., 115 Franklin
Gollner, Phillip Co., 33d & Archer av
*Gould Co., Ohio & Franklin
*Graton & Knight Mfg. Co., 165 E Lake
Gump, B. F. Co., 429 S Clinton
*Gutta Percha & Rubber Mfg. Co., 224 E Randolph
*Hamilton Rubber Mfg. Co., 161 Lake
Harris, Samuel & Co., 114 N Clinton
*Henion & Hubbell, 223 N Jefferson
Hills, McCanna Co., 153 W Kinzie
*Jewell Belting Co., 175 Lake
*Ladew, Edw. Co. (Est. of), 135 E Lake
Limbert, Geo. B. & Co., 559 Fulton
*Lynch, Edw. & Co., 31 S Clinton
McMaster-Carr Supply Co., 174 Lake
*Main Belting Co., 55 Market
Manning, Maxwell & Moore, 111 N Canal
*Mechanical Rubber Co., 230 Randolph
Moloney Belting Co., 224 Randolph
Monarch Mill & Supply Co., Monadnock
*Munson, Chas. Belting Co., 88 Franklin blk
*New York Belting & Packing Co., 150 Lake
Norman, C. Erwin & Co., 177 N Canal
*Norwich Belting Co., 115 W Washington
*Page Belting Co., 130 S Jefferson
Plamondon, A. Mfg. Co., 14 N Clinton
*Puster Bros., 25 S Clinton
Republic Mfg. Co., 656 W Washington
*Revere Rubber Co., 168 Lake
Rollins Steam Specialty & Valve Co., 17 W Kinzie
Salisbury, W. H. & Co., 166 Wabash av
*Schieren, Chas. A. & Co., 84 Franklin
Scott Valve Co., 231 E Randolph
Seehausen, Wehrs & Co., 45 Franklin
Skillin & Richards Mfg. Co., 46th av & Courtland
**SPRAGUE CANNING MACHINERY** Co. (All Kinds for Canners, etc.), 5 Wabash av. (See adv. index, end of book)
Steam Fitters' Supply Co., Dearborn av & Kinzie
Street, R. R. & Co., 184 Washington
Trench, Daniel G. & Co., 5 Wabash av
Walsh, John F., 439 W Lake
Weir & Craig Mfg. Co., 2421 Wallace
**WELLER MFG. C., 118 E North** av. (See adv. index, end of book)
Western Packing & Supply Co., 253 Lasalle
Whitaker Mfg. Co., 509 W Monroe
Whitehead, Jos. H. Co., 12 N Jefferson
*Williams, I. B. & Sons, 120 Franklin
Willis, F. C., 36 Lasalle
**WILSON, F. CORTEZ & CO., 239** Lake. (See adv. index, end of book)
Winne, Howard B., 714 W Jackson
Wolf, Fred W. Co. (Packing, Pipe, Coverings, etc.). 827 Rees
Woodcock Bros., 544 W Lake
DANVILLE—Conron, Thos. Hardware Co.
DECATUR—Aultman & Taylor Machine Co.
Field & Shorb Co.
Oakes, Wm. L.
FAIRFIELD—Martin, E. A.
FREEPORT—Dorman & Co.
GRANITE CITY—Bristow Hdw. & Supply Co.
HOOPESTON—Sprague Canning Machinery Co.
JOLIET—Barrett Hardware Co.
KANKAKEE—Norris & Frith
MOLINE—Barnard & Leas Mfg. Co.
OTTAWA—Jordan, R. C.
Refior Hardware Co.
PEORIA—Bittel, Wm.
Couch & Heyle Co.
Hagerty Bros. Co. (Mine)
Kinsey & Mahler Co.
Meyer, F. & Bros. Co.
Nailon Bros. Co.
PRINCETON—Priestly Hardware Co.
QUINCY—Best, E. Plumbing & Steam Heating Co.
Hollister-Whitney Co. Co.
ROCKFORD—Blake, J. C. Heating Co.
Rockford Brass Works
Savage & Love Co.
ROCK ISLAND—Channon & Dufra (Factory)
SPRINGFIELD—Hudson, J. L. Co.
Miller, W. B. & Son

## INDIANA.

ANDERSON—May Supply Co.
AUBURN—Auburn Hardware Co.
Culbertson Hardware Co.
CARLISLE—Risinger, Thos.
COLUMBUS—Schwartzkopf, J. G. & Son
EVANSVILLE—Evansville Leather & Belting
Heilman Machine Works Co.
Holtz, F. Co.
Laib Co.
FORT WAYNE—Fort Wayne Oil & Supply Co.
National Mill Supply So.
Pfeiffer, Henry & Son
Schlatter, C. C. & Co.
GARY—Calumet Supply Co.
GOSPORT—Burkett, A. H.
GREENSBURG—Corbett & Rohe
Meek & Wooden
Mendenhall, Jas. E.
Watson, W. A.
INDIANAPOLIS—Atkins, E. C. & Co., 402 S
Barry Saw Co., 228 S Penn Illinois
Central Rubber & Supply Co., 229 S Meri-
Duckwell Belting & Hose Co. dian
**FAIRBANKS, MORSE & CO. (of** Chicago, Ill.), 140 S Meridian. (See adv. index, end of book)
*Hide, Leather & Belting Co., 227 S Me-
Holliday, W. J. & Co. ridian
Indianapolis Belting & Supply Co., 18 S Capitol av
Kenney Machinery Co., 124 Capitol av
Miller Oil & Supply Co., 352 S Meridian
Nordyke & Marmon Co., 1101 W Morris
Taylor Belting Co., 247 S Meridian
Van Camp Hdw. & Iron Co., 401 W Mary-
Vonnegut Hdw. Co., 120 E Washn land
LAFAYETTE—Biggs, B. F., Pump Co.
Johnson Hardware Co.
Reule, Fredk.
LOGANSPORT—Crawford, Isaac N.
Ullery, S. W. & Son
MARION—Hogin, McKinney & Co.
Marion Hdw. Co.
MISHAWAKA—Dodge Mfg. Co.
MUNCIE—Carpenter, G. Albert
Crozier, Cary
Keiser, Geo. & Co.
Scott Hardware Co.
RICHMOND—Jones Hdw. Co.
SOUTH BEND—South Bend Supply Co.
TERRE HAUTE—Austin Hardware Co.
Crane Co.
Frietag, Weinhardt & Co.
Smith's, C. C. Sons Co.
Watson's, D. W. Sons Co. (Also Mine)
UNION CITY—Knapp Supply Co.

## IOWA.

BONAPARTE—Blackford, W. S. & A. V.
BURLINGTON—Murray Iron Works Co.
Stewart & Hayden Co.
CEDAR RAPIDS—Carmody Foundry & Ma-
Cedar Rapids Pump Co. chine Co.
Fawcett, C. E.
Fenton, J. H. & Co.
Messner & Co.
DAVENPORT—Hanssen's, Louis Sons
DECORAH—Johnson, Peter & Son
DES MOINES—Baker Machinery Co.
Beckman Bros.
Crane Co.
Dempster Mfg. Co., 211 E Court av
Globe Mach'y & Supply Co., 416 Court av
Iowa Mach'y & Supply Co., 317 Court av
McDonnell Boiler & Iron Works
DUBUQUE—Deckert, W. D. Co.
Dubuque Rubber & Belting Co.
McDonald, A. Y. Mfg. Co.
Ragatz & Son
FORT DODGE—Leighton Supply Co.
GREELEY—Hilsenbeck, H. C.
LE MARS—Pech, Gustave Foundry & Mfg. Co.
MARSHALLTOWN—Shorthill, A. E. Co.
NORTHWOOD—Tenold Bros.
SIOUX CITY—Crane Co. (of Chicago, Ill.). Est. 1855. (See adv. index, end of book)
Interstate Electric & Mfg. Co.
Novelty Mfg. Co.
WATERLOO—Cutler Hardware Co.
Waterloo Mfg. Co.

## KANSAS.

ATCHISON—Searles Bros. Wind Mill & Pump
Thayer Supply Co. Co.
ENTERPRISE—Barnard Machinery Co.
Ehrsam, J. B. & Sons Mfg. Co.
ESKRIDGE—Trusler, Wm.
FORT SCOTT—Penniman, A. C. & Sons
IOLA—Shannon, T. B.
JUNCTION CITY—Muenzenmayer, J. J. & W. F.
KANSAS CITY—Strait, H. W. Mfg. Co.
LEAVENWORTH—Great Western Mfg. Co.

## KENTUCKY.

ASHLAND—Ashland Fdry & Machine Works
Henderson Hardware Co.
BOWLING GREEN—Miller-Rogers Hdw. Co.
FLEMINGSBURG—Henderson Plumbing & Supply Co.
HENDERSON—Blackwell, P. A. & Co.
HOPKINSVILLE—Metcalf, J. J.
LEBANON—Johnston, H. W.
LEXINGTON—American Metallic Packing Co.
Lexington Engine & Saw Mill Works
Smith, Watkins & Co.
LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W Main
Belknap Hardware & Mfg. Co. (Inc.), 2d & Washington
Brandeis Machinery & Supply Co.
Cowan, Andrew & Co., 435 W Main
**FAIRBANKS, MORSE & CO. (of Chi-** cago, Ill.), 519 W Main. (See adv. index, end of book)
Hite, W. W. & Co., 154 4th
Kentucky Saw Works, 925 W Main
Laib Co., 439 W Main
Neill, W. H. Co., 507 W Main
Pyne, W. T. Mill & Supply Co., 1301 W
Semple, W. & A. C., 311 W Main Main
Todd-Donigan Iron Co., 817 W Main
Vogel, P. A. & Sons
Waters-Garland Co. (Also Textile Mill Supplies), 433 W Main
OWENSBORO—Gunther, W. & Sons
Gunther-Wright Machine Co.
Owensboro Hdw. & Iron Co. (Also Mine)
Owensboro Mill Supply Co. (Also Mine)
PADUCAH—Hauk Bros.
Jackson Foundry & Machine Co.
Potter, Henry A. Supply Co.
PIKEVILLE—Call Bros. Hardware Co.

## LOUISIANA.

BATON ROUGE—Doherty Hardware Co.
Fuqua Hardware Co.
DONALDSONVILLE—Lemann, B & Bro.
HAMMOND—Hamond Hardware & Supply Co.
LAFAYETTE—Lacoste Hardware Co.
MONROE—Southern Hardware Co.
NEW ORLEANS—Ahrens & Otto Mfg. Co.
Atkins, E. C. & Co., Canal & Peter
Baldwin, A. & Co. (Ltd.), Camp & Common
Bancroft, Ross & Sinclair Co., Tulane & Bynum & Russ S Hagen avs
Connell, J. D. Iron Works Co.
Gibbens & Stream, 213 Canal
Haubtman & Loeb Co. (Ltd.), 222 S Peters
Kittredge-Waters Supply Co., 422 Common
McArdle, P. H., Erato & Clara
Menge, J. H. & Sons (Ltd.), 210 Tchoupi-
Murphy, Jno. H., 643 Magazine toulas
Patterson, C. T. Co. (Ltd.), 404 Carondelet
Payne & Joubert, 423 Carondelet

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Reliance Machinery & Supply Co.
***Revere Rubber Co., 700 Baronne**
Simonds Mfg. Co. (Ltd.). Gravier & Tchoupitoulas
Southern Belting Co., 720 Union
Stauffer, Eshelman & Co., Canal & Dorsiere
Van Horn, Oliver H.
Whitney Supply Co., 108 N Peters
Wilmot Machinery Co.
Woodward Supply Co.
Woodward, Wight & Co., 410 Canal

RUSTON—Ruston Hardware & Supply Co.

SHREVEPORT—Gulf States Belting & Hose Co.
Henderson, W. K. Iron Works & Supply Co.
Lee Hdw. Co.
Means, J. L. Machinery Co.
Vordenbauman-Eastham Co.

THIBODAUX—Planters' Hdw. & Mill Supply Co.

## MAINE.

AUBURN—Elms, James

AUGUSTA—Brooks Hardware Co.
Fifield Bros.

BANGOR—Fairbanks Co.
Schwartz's, M. Sons, 213 Exchange
**Snow & Neally Co.**
**Taylor, Abner, 122 Exchange**
**Union Iron Works**

BATH—Johnson Bros. Co.

CALAIS—Eaton, J. B. & H. D.

DEXTER—Fay & Scott

ELLSWORTH—Westcott, H. F.

**GARDINER—Decker & Day Hdw. & Coal Co.**
Scribner, Harvey (Est. of)

HOULTON—Watson, John Co.

LEWISTON—Carman-Thompson Co.
**Hall & Knight Hdw. Co.**
Smith, John B. & Co.
**Stetson, J. H. Co.**
**Whitney, Geo. A. & Co.**

MECHANICS FALLS—Penny, J. W. & Sons

PORTLAND—Adde & Co., 59 Kennebec Co.
Blake, W. L. & Co. (Inc.), 79 Com'l
Corey, E. & Co., 197 Cam'l
Dunn, H. A. & Co., 453½ Congress
Dunn, M. E.
Edwards & Walker Co., 5 Monument sq
Emery-Waterhouse Co., 145 Middle
King & Dexter Co., 11 Monument sq.
Merrill, T. L. Co., 228 Middle
Portland Co.
Portland Rubber Co., 259 Middle
Smith & Abbott Co.
Talbot, Brooks & Ayres

ROCKLAND—Crie, H. H. & Co.
Shuman Machine Co.

SACO—*Beatty, Janson W. & Co.

WATERVILLE—Claflin, Mark T.
Hanson, Webber & Dunham

## MARYLAND.

BALTIMORE—Adt, Jno. B., 332 N Holliday
**Aumen Machinery & Supply Co., 324 N Holliday**
Basshor, Thos. C. Co., 28 Light
Bolton Bros., 416 E Pratt
Carey Mach'y & Supply Co., 119 Lombard
**Central Metal & Supply Co., 609 E Lombard**
**Coggins & Owens, 19 S Charles**
**Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)**
**Crook-Horner Co., 17 E Pratt**
Cuyler & Mohler, 611 William
*Druid Oak Belting Co., 103 Balderston
Fairbanks Co., Lombard & Light
Ives Mfg. Co., 203 Hanover
Kemp, C. M. Mfg. Co., 405 E Oliver
Kessel, Henry A. Co., 121 S Gay
Kruss & Roberts (Also Mine), 1318 E Baltimore
*Maryland Belting & Packing Co., 1626 Bank
Maryland Equipment & Supply Co., Equit-
Schuchts, D. B., 215 President able bldg
**Spedden Supply Co. (Marine Also), 913 S**
Starr, B. F. Co., 455 Guilford av B'way
**Stebbins, Wallace & Sons, c Charles & Lombard**
**Struven, Chas. M. & Co., 114 S Leonard**
**Wallace & Gale (Oils, Coverings, Compounds, etc.), 115 S Gay**

CUMBERLAND—Dreyer, F. C. Supply Co. (Also Mine)
Maryland Supply Co. (Also Mine, Railroad,
McKaig, Merwin (Also Mine) etc.)
Wilson & Pugh (Also Mine)

**FREDERICK—Gomber, John**
Quynn, A. G. & Co.

HAGERSTOWN—Foltz, H. C.

SALISBURY—Dorman & Smyth Hardware Co.
Grier, Robt. D.
Gunby, L. W. Co.

## MASSACHUSETTS.

ADAMS—Mole, F. E.
Weston, L. A.

AMESBURY—Fowler, F. S.

ANDOVER—Morse, Walter I.

ATHOL—Paige, C. F. & Co.

ATTLEBORO—Gifford, James W. Co.

AYER—Proctor, E. O.

BOSTON—American Shuttle Co., 53 State
Anderson, Geo. P., 163 Oliver
*Bay State Belting Co., 43 High
Bigelow & Dowse Co., 229 Franklin
Blakeburn, S. B. & Co., 287 Atlantic av
Bond, Harold L. Co., 383 Atlantic av
***BOSTON BELTING CO., 256 Devonshire. (See adv. index, end of book)**
Boston Engineer & Mill Supply Co., 234 Milk
**Boston Engineers' Supply Co., 56 Purchase**
Boston Steam Specialty Co., 168 Congress
Bowes, L. M. Co., 176 Friend
Braman, Dow & Co., 239 Causeway
Brigham, Arthur A., 17 Milk
Brown-Wales Co., 69 Purchase
Buerkel & Co., 24 Union Park
Byers & Smith, 105 Haverhill
**Chandler & Farquhar Co., 36 Federal**
Chase, Chas. F., 170 Summer
Chase, Parker & Co., 81 Pearl
**Chesterton, A. W. & Co., 64 India**
Chicago Rawhide Mfg. Co., 492 Atlantic av
Claflin, Chas. A. & Co., 60 High
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Curry Oil & Supply Co., 284 Franklin
Cutter-Wood Supply Co., 68 Pearl
Dodge, Haley Co., 218 High
**Dodge Mfg. Co., 137 Purchase.**
**Eagle Oil & Supply Co., 104 Broad**
Federal Metallic Packing Co., 164 Canal
Field, Wm. H., 35 Washington, N.
Fitts, Frank E. Mfg. & Supply Co., 88 Purchase
Foley, Jas. & Co., 176 Federal
**Gallison, Wm. H. Co., 36 Oliver**
Garlock Packing Co., 88 Broad
General Fire Extinguisher Co., 79 Milk
**Gilchrist, Geo. E. Co., 106 High**
Globe Leather Belting Co., 151 Pearl
Graton & Knight Mfg. Co., 33 Lincoln
**Greenwood Mfg. & Supply Co., 12 Pearl**
Hamblet & Hayes Co., 105 Summer
Hinds & Conn, 126 Pearl
**Holmes & Blanchard Co., 31 State**
**Hubbard, W. B. & Sons Co., 176 Oliver**
Holt, Shattuck & Co., 45 Washington
Hunt, Henry C. Co., 32 Oliver
Ireson, Chas. L., 221 High
Jager, Chas. Co., 281 Franklin
Johnson-Washburn Co., 83 Haverhill
Kessel, Henry A. Co., 33 India
Knowlton, Geo. W. Rubber Co. (Mechanical Rubber Goods & Engineers' Supplies), 60 Pearl
*Ladew, Edw. R. (Est. of), 228 Franklin
Lumsden & Van Stone Co., 69 High
**Lunt-Moss Co., 43 S. Market**
McKerrow, H. G. & Co., 31 State
**McLean-Brandon Oil & Supply Co., 65 Long Wharf**
Manning, Maxwell & Moore, **Franklin &**
Morton, A. M. & Co., 25 Washington Oliver
Mulliken, Chas. F. Oil Co., 200 Friend
**Murphy, Leavens & Co., 147 Washington, N**
New England Lubricant Co., **170 Summer**
**Nightingale & Childs Co., 205 Congress**
Otto Gas Engine Co., 294 Washington
*Page Belting Co., 31 Pearl
Patterson Lubricating Co., 114 Broad
**Pratt, R. W. & Son, 111 Haverhill**
Rawles-Cobb Co., 74 Pearl
Rhode Island Supply & Engineering Co., 294 Washington
Russell, J. M. Mfg. Co., 125 Summer
Shackley, W. T. & Son, 49 High
Sherburne & Co., 53 Oliver
Shultz Belting Co., 114 High
Smith & Thayer Co., 234 Congress
Speed & Stephenson (Textile), **170 Summer**
Speare's, Alden Sons Co., 369 Atlantic av
Sumner & Gerald, 287 Congress
**Walworth Mfg. Co., 132 Federal**
Wilkinson, A. J. & Co., 180 Washington

BROCKTON—Noyes, C. A. Co.

CHELSEA—Tukey, S. S. & Co.

CLINTON—Pratt, E. O.

EASTHAMPTON—Manchester, Geo. L.
Ryan, James P., 45 Cottage

FALL RIVER—American Supply Co., 104 Hart-
Borden, Jefferson & Son, 288 Locust well
Chase, Stephen A.
**Covel & Osborn Co., 189 Pleasant**
Davis, N. Frank, 78 Bedford
Fall River Rubber Co., 75 S Main
Fyans, Fraser & Blackway Co.
Hartley, Alfred H.
Johnson, John F. Co.
Kilburn, Lincoln & Co.
Luther Reed Mfg. Co., 2060 S Main
Miller, Nathan
Toohey, Michael J. & Co., 809 Stafford rd
Union Belt Co., 66 Troy
Wetherell, O. B. & Son Co.

FITCHBURG—Fitchburg Hardware Co.
Parks, G. M. Co.
Wachusett Machine Co.

FRANKLIN—Hosie, Horace W.
Milliken's Sons, L. W.

GARDNER—Davis Hardware Co.

GLOUCESTER—Andrews, L. E. & Co.
Stoddart, A. P. & Co.

GREENFIELD—Allen's, S. Sons.

HAVERHILL—Busfield, James

HOLYOKE—Chase & Cooledge Co.
Crosby Hardware Co.
Holyoke Supply Co.
Holyoke Valve & Hydrant Co.
Russell, G. E. & Co.
Russell, J. & Co.
Wells, E. D. & Co.

LAWRENCE—Austin, M. E. & Co., 205 Essex
Barlow, John W. Co., 81 Holly
**Burnham, E. E. Co., 252 Lowell**
Hall Paint & Hardware Co.
**Robinson Hardware Co.**
**Stanchfield, H. J. & Co.**
**Treat Hdw. & Supply Co., 584 Essex**

LEICESTER—Watson, L. S. Mfg. Co.

LEOMINSTER—Gavin Hardware Co.
Leominster Hardware Co.

LOWELL—Adams Hardware & Paint Co., 404 Middlesex
Barker, H. R. Mfg. Co., 158 Middle
**Bartlett, W. T. S.**
Bartlett & Dow, 216 Central
**Cady, George L. & Sons, 2 Fletcher**
**Cheney & Thompson Co.**
**Clark, Jeremiah Mchy. Co., 32 Perrin**
Coburn, C. B. Co., 63 Market
Hutchins, Geo. E., 107 Central
**Knowles Scale & Supply Co.**
**Lowell Machine Shop, Dutton**
Middlesex Machine Co., 12 Merrimac sq
Thompson Hardware Co., **254 Merrimack**
Turner, J. S. Mfg. Co.
*Whiting, Henry F., 16 Shattuck

LYNN—Collins Hardware Co.
**Harding, J. W. & Co.**
**Howe, Oliver R.**
Trefethan, F. L.

MANSFIELD—Fuller, W. C. Co.

MATTAPOISETT—Dexter, A. M. (Est. of.)

MIDDLEBORO—Doane, J. & G. E.

MILFORD—Ellis, Clark & Son
Staples & Gould

NATICK—Durkee, Moreton

NEW BEDFORD—Babbitt Steam Specialty Co.
Dunham, Crawford L.
Hillman, F. G.
Knowles, Wm. H. & Co.
Lowe, S. C. Supply Co.
Manufacturers' Supply Co.
New Bedford Rubber Co.
Rankin & Arnold
Slocum & Kilburn

NEWBURYPORT—Russell, Albert & Sons Co.
Thurlow, S. H. & Co.

NORTH ADAMS—Burlingame & Darby's Co.

NORTH CHELMSFORD—*North Chelmsford Machine & Supply Co.

ORANGE—Chase Turbine Mfg. Co.
Orange Hardware Co.

PALMER—Buck, E. A. & Co.
Whitcomb & Faulkner

PEABODY—Whidden, A. H. & Son

PITTSFIELD—Baris-Kenyon Co.
Berkshire Mill Supply Co.

ROCKLAND—Hall & Torrey

SALEM—Goodell, Zina

SOMERVILLE—Birch Bros.

SOUTHBRIDGE—Winter, G. C.

SPRINGFIELD—Chapman & Brooks, 71 Lyman
Cotter, J. J. Co., 142 Dwight
Dexter & Bowles (Paper Makers')
Foot, Homer & Co., Main c State
Graves, Geo. A. & Sons, 324 Main
Hampden Supply Co., **45 Sharon**
Hitchcock Supply Co. (Jobbers), 74 Dwight
Law, J. Douglas, 260 Main
Oliver & Howland Co., **214 Worthington**
Russell, Jno. W. & Sons Co., 47 Taylor
Springfield Belting & Supply Co., 216 Worth-
Stacy, E. S. Machine Co., 41 Taylor ington
**WYCOFF & LLOYD CO., 19 Worthington. (See adv. index, end of book)**

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TAUNTON—Park, W. R. & Son
**Pierce Hardware Co.**
**Presbrey-Field Co.**
TURNERS FALLS—Webster, F. I.
WALPOLE—Rooney, Jno. B.
WALTHAM—Taylor & Percival
WARE—Sibley, J. B. & Son
WESTFIELD—Bryan, James H. Co.
WORCESTER—Braman, Dow & Co. (of Boston), 7 Washington sq.
Buck, E. A. & Co., Worcester & Casco
Burlingame, A. Co., 22 Cypress
Duncan & Goodell Co., 404 Main
**Fairbanks & Boynton Co., 49 Vine**
***HUDSON BELTING CO., 3 Eaton** pl. (See adv. index, end of book)
Marble, J. Russell & Co.
Mason Brush Works, 553 Main
*Warren, J. F. & W. H. Co.
Willard, W. H. Co., 529 Main
**Worcester Rubber Co., 324 Main**

## MICHIGAN.

ALPENA—Kline, Lewis T.
Potter Hardware Co.
AUSABLE—Richards, R. A.
BATTLE CREEK—Brockett, L. B. & Son
Galloup, J. O.
BAY CITY—Alert Pipe & Supply Co.
Bialy Hardware & Supply Co.
Jennison Hardware Co. (Also Vessels)
BIG RAPIDS—Judson, C. P. & Co.
CADILLAC—Drury & Kelley Hardware Co.
Nordstrom, N. P.
CALUMET—Carlton Hdw. Co. (Also Mining)
CHEBOYGAN—Post, J. J. Hdw. Co.
DETROIT—Anderson, Kenneth Mfg. Co. (Packing, etc.), 33 Atwater
**Boyer-Campbell Co., 64 Congress**
**Conkling, S. P. (Pipe Coverings, etc.), 20 Atwater**
**Detroit Engineers' Supply Co., 12 Atwater**
***Detroit Oak Belting Co., 266 Wight**
Edwards, H. D. & Co., 16 Woodward
**FAIRBANKS, MORSE & CO. (of Chicago, Ill.), 86 Jefferson. (See adv. index, end of book)**
**Harvey, A. Sons Mfg. Co., 1st & Woodbridge**
Hercules Pulley Covering Co., 85 E Park pl
Kerr Mach'y & Supply Co., 70 E Congress
**Palmer-Bee Co., 56 Woodward**
**Roe, J. A. Co., 12 Atwater**
**Sales, Murray W. & Co., 76 Jefferson av**
**Strelinger, Chas. A. Co., 98 Bates**
Taylor Supply Co., 100 Jefferson
**Walker Mfg. & Supply Co., 136 W. Larned**
**Wayne Belting Co., 27 Bates**
**Wing, J. T. & Co. (Leather), 19 Woodward**
**Wormer C. C. Machinery Co., 99 W. Woodbridge**
DOWAGIAC—Bishop Hardware Co.
Onen Hdw. Co.
ESCANABA—Delta Hardware Co.
FLINT—Sterner, Edwin Co.
GRAND RAPIDS—Barclay, Ayers & Bertsch Co., 93 Kent
Brandy, M. & Sons, 20 Alabama
Grand Rapids Supply Co., 4 Pearl
Raniville, F. Co.
HOUGHTON—Portage Lake Hdw. Co. (Also Mine)
Swift, I. E. & Co. (Also Mine)
IRON MOUNTAIN—Rundle, A. J. (Also Mining)
IRONWOOD—Lesselyoung Hardware Co. (Also Mine)
ISHPEMING—Eggan, Fred. J.
JACKSON—General Distributing Co.
Smith-Winchester Hardware Co.
Warner Hardware Co.
KALAMAZOO—Edwards & Chamberlain Hardware Co.
Quinn Mfg. Co.
Wheeler-Blarney Co.
LANSING—Michigan Supply Co.
MANISTEE—Miller, Wm.
MARQUETTE—Manhard, M. R. & Son
MARSHALL—Bosley, W. E. & Son
MENOMINEE—Emerson Corbin Supply Co.
Northern Hardware & Supply Co.
MUSKEGON—Howden, J. J. Co.
Towner Hardware Co.
PAW PAW—Waters, H. C. & Co.
PETOSKEY—Reynolds, C. A. (Est. of)
PORT HURON—Port Huron Engine & Thresher Co.
REED CITY—Callaghan, M. M. Co.
SAGINAW—Michigan Saw Co.
Morley Bros. (Inc.)
Saginaw Hardware Co.
Saginaw Mfg. Co.
United Supply Co.
Wickes Bros.
ST. IGNACE—Kynoch, Chas. & Co.
SHELBY—Rankin, A. J.
SAULT SAINTE MARIE—Soo Hardware Co.
STANTON—Pierson, Jno. W. S. & Co.
TECUMSEH—Satterthwaite Bros.
Whitenack, D. L. & Co.

## MINNESOTA.

CLOQUET—Fish Hardware Co.
DULUTH—Duluth Hardware Co.
**Hilliard, E. J.**
Kelley-How-Thomson Co.
Marshall-Wells Hardware Co. (Also Mine & Lumbermen's Supplies)
Northern Hardware Co.
MINNEAPOLIS—Atkins, E. C. & Co., 122 Washington av
Central Supply Co., 312 Third, S
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**Engineering & Steam Supplies Co., 227 S 3d**
**FAIRBANKS, MORSE & CO., 220** Nicollet av. (See adv. index, end of book)
Gilmore, D. M. Co., 515 S 3d
Harris Machinery Co., 1025 **Wash'n av, S E**
Howell, R. R. & Co., **31st av, S E 4th**
Janney, Semple, Hill & Co.
**Kelly, H. & Co., 225 3d, S**
Link Belt Supply Co., 410 3d
Manufacturers' Supply Co., University & 24th avs
Morison, W. K. & Co., **247 Nicollet av**
National Mfg. & Supply Co., 256 3d av
Northern Machinery Co., **217 S 3d**
*Nott, W. S. Co.
Plant Rubber Co. (Leather, etc.), 320 1st av, N
Sanford, Chas. E. & Co., 202 **Wash'n av N**
**Satterlee, F. E. & Co., 215 2d av, S**
Sikes, S. R. Co. (Inc.), **915 Wash'n av S**
Strong-Scott Mfg. Co.
Willford Mfg. Co., 303 S 3d
ST PAUL—Crane & Ordway Co., 250 E 4th
**FAIRBANKS, MORSE & CO., 234** E 3d. (See adv. index, end of book)
*Goodyear Rubber Co., 375 Sibley
Robinson & Cary Co., 4th c Waconta
Western Supply Co.
STILLWATER—Stillwater Mfg. Co.
WINONA—Cone, R. D. Co.

## MISSISSIPPI.

CLARKSDALE—Clark, Walter
Clarksdale Machinery & Sup. Mfg. Co.
Sommers Hardware Co.
COLUMBUS—Columbus Machine & Foundry Co.
Jacobs, F. M.
CORINTH—Adams, W. T. Machine Co.
Corinth Engine & Boiler Works
CUDE—Cude Supply Co.
HATTIESBURG—Watkins Machine & Fdry Co.
JACKSON—McCleland, T. Hardware Co.
Mississippi Fdry. & Mch'y Co.
MERIDIAN—Williams-Cliff Machine Co.
NATCHEZ—Baker & McDowell Hdw. Co.
Feltus Bros.
Schwartz & Stewart
VICKSBURG—Hoffman, Louis, Hdw. Co.
Richardson, Lee & Co.
Robinson, B. J.
Wright Bros. Hardware Co.
YAZOO CITY—Crane-Hinman Hdw. Co.

## MISSOURI.

CARTERVILLE—Carterville Boiler Works.
Weeks Hardware Co.
JOPLIN—Joplin Supply Co.
McNeal Machinery Co.
United Iron Work Co. (Also Mine)
KANSAS CITY—Bunting-Stone Hardware Co., 806 Walnut
Byrnes Belting Co., 1320 W 11th
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
English Tool & Supply Co.
Equipment Co.
Faeth Iron Co. (R. R. & Mine)
**FAIRBANKS, MORSE & CO., 1217** Union av. (See adv. index, end of book)
***Goodyear Rubber Co., 109 W 8th**
**Great Western Mfg. Co., 1221 Union av**
**Gustin-Bacon Supply Co., 1408 W. 11th**
Harbison Mfg. Co., 1219 W 10th
**Kansas City Mfg. & Supply Co.**
**Kansas City Pump Co.**
Lewis Supply Co., **1300 W 11th**
Richards & Conover Hardware Co., 5th c Wyandotte
Smith, Irving & Co., 327 Southwest blvd
U. S. Water & Steam Supply Co., 1315 W 12th
Young, W. B. Supply Co., 212 Delaware av
MALDEN—Malden Machine Works (Also Lumbermen's)
MOBERLY—Faessler, J. Mfg. Co.
ST. JOSEPH—Horigan Supply Co., **209 S 4th**
Lewis Supply Co., **115 S 4th**
ST. LOUIS—Barry-Wehmiller Mach'y Co., **21st**
Branch Saw Co., 817 N 2d
**BRODERICK & BASCOM ROPE** Co. (Mine), 809 N Main. (See adv. index, end of book)
Brown Machinery Co., 934 N 1st
Byrnes Belting Co., 914 N 2d
***Capen Belting & Rubber Co., 413 N Main**
**Cornelius Mill Furnishing Co., 1119 N 6th**
Crane Co. (of Chicago), Est. 1855. **(See adv. index, end of book)**
Day Rubber Co., 415 N 4th
Dodge Mfg. Co., 507 N Main
**Donovan Iron & Supply Co.**
**Essmueller Mill Furnishing Co., 605 S 6th**
**FAIRBANKS, MORSE & CO., 8th** & Clark av. (See adv. index, end of book)
Fisher & Davis Mfg. Co. 1024 N Main
Geller, Ward & Hasner Co., 412 N 4th
**Graton & Knight Mfg. Co., 720 N 2d**
**Handlan-Buck Mfg Co., 212 N 3d**
Hirsch, Cal. & Sons Iron & Rail Co.
Johnson, Wm. C. Sons Mach. Co., 210 Washington av
**LESCHEN, A. & SONS ROPE CO.** (Belting, Packing, etc.), 920 N Main. (See adv. index, end of book)
Manning, Maxwell & Moore, 305 **Frisco**
Matthews, Geo. T. & Co., 20 S Main bldg
Mercantile Lumber & Supply Co.
*Missouri Belting Co., 120 S **Commercial**
National Plumbing Supply Co., 110 S 12th
Nelson, N. O. Mfg. Co., 10th & Chestnut
***New York Belting & Packing Co. (Ltd.), 411 N 3d**
Norvell-Shapleigh Hdw. Co. (Also Miners'), 4th & Washington
Reuter-Jones Mfg. Co.
Rumsey, L. M. Mfg. Co. (Belting, Packing, etc.)
Southern Railway Supply Co.
**St. Louis Belting & Supply Co., 509 S 4th**
**St. Louis Machinists' Supply Co., 1118 Pine**
**Streett, J. D. & Co., 809 N 2d (Also Mine)**
**Teuscher & Son Machinery Supply Co., 928**
Turner Supply Co. N 2d
**Yerkes & Finan Woodworking Machine Co., 3143 N 9th**
Zelnicker, Walter A., Supply Co.
SPRINGFIELD—Moore Mfg. Co.
United Iron Works Co. (Mine)

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Anaconda Copper Mining Co.
Montana Hardware Co.
GREAT FALLS—Lowery Engineering Co.
HELENA—Holter, A. M. Hardware Co.
MISSOULA—Missoula Mercantile Co.

## NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co.
LINCOLN—Cooper & Cole Bros.
Smith, R. L.
Western Supply Co.
OMAHA—Baum Iron Co.
Crane Co. (of Chicago), **Est. 1855. (See adv. index, end of book)**
**FAIRBANKS, MORSE & CO. (of** Chicago), 1102 Farnham. (See adv. index, end of book)
Kennedy, J. R.
Lehmer, Joseph R., 1218 Farnam.
Sunderland Machinery & Supply Co., 1006
U. S. Supply Co., 901 Farnam **Douglas**
YORK—York Fdry. & Engine Works

## NEVADA.

RENO—Nevada Hardware & Supply Co. (Also Mine)

## NEW HAMPSHIRE.

BERLIN—Berlin Mills Co.
Parent, Arthur E.
CLAREMONT—Rand, Ball & King Co.
CONCORD—Concord Pipe Co.
Page Belting Co. (Belting, Hooks, Tools, Thompson & Hoague Co. etc.)
EXETER—Exeter Machine Works
Lane, G. W. & C. A.
FRANKLIN—Kidder Machine Co.
KEENE—Spencer Hardware Co.
LACONIA—Huse, W. D. & Sons
Quinby, A. T. & Son
LAKEPORT—Cole Mfg. Co.
LANCASTER—Thompson Mfg. Co.
MANCHESTER—Cornish, E. P.
Felton, S. A. & Son Co. (Brushes)
Manchester Hardware Co.
Manchester Supply Co.
Varick, Jno. B. Co.

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MILFORD—French, W. F.
Peirce, W. E. & Co.
NASHUA—Buxton, F. T.
Grover File Co.
Nashua Hdw. Co.
PETERBORO—Walbridge & Taylor
PORTSMOUTH—Chadwick & Trefethen
SOMERSWORTH—Sweetser-Sanborn Co. Works
WHITEFIELD—Stoughton Co.

## NEW JERSEY.

ATLANTIC CITY—Allen, E. Philip & Co.
Currie Co.
BAYONNE—Bayonne Supply Co.
BRIDGETON—Bowen, R. L. & Son, 9 Atlantic
ELIZABETH—Elizabeth Hardware Co.
GUTTENBERG—Herrmann, F. W.
HARRISON—**WALSH'S SONS & CO. (See** adv. index, end of book)
JERSEY CITY—Gibbons, Ernest A. & Co., Hudson & Morris
Jersey City Supply Co., 12 Mercer
Johnson, Henry Co., Gates av & boul
Perkins, Arthur L. Co., 283 Warren
MADISON—Force, Chas. C. & Son
NEWARK—Banister & Pollard Co., 206 Market
Coe, Jas. A. & Co.
Crabb & Co., 3d av, cor 4th
Crane Co., 45 Mechanic
Crane & Milligan (Jobbers), 54-56 Mechanic
*DeForge Gelting Co., 301 Market
Gray, R. Jr., 190 Market
Johnson-Mandeville Co., 496 Broad
*Ladew, Edw. R. (Est. of), 307 Market
Ludlow & Squier, 97 Market
Macknet & Doremus Co., 796 Broad
*Meier's, Jos. Sons, 306 Makert
Mutual Supply Co., 10 Milton
Rising & Thorne, 475 Broad
Roe, Wm. S.
Roe & Conover, 17 Mechanic
***ROSSENDALE - REDDAWAY** Belting Hose Co., 32 Euclid av. (See adv. index, end of book)
Walker, C. W. Sons & Co., 274 Market
**NEW BRUNSWICK—Weigel, Philip, Jr.**
**ORANGE—Lindsley, Jno. N.**
PASSAIC—Mills, H. W. & Co.
New Jersey Engineering & Supply Co.
Smith, Abe, 200 Main
Van Duyne & Powers
PATERSON—Ash Henry M., 180 Market
**Cleaver & Leather, 159 Madison**
Cleveland, J. W., 120 Main
Cox, Jas. T., 24 Van Houten
Doremus & Snyder, 16 Fair
**Frost, Geo. T. C. Sons**
Hall, I. A. & Co.
Low, F. Eliot Co.
Mills, H. W. & Co.
Myers, Geo. A. & Co.
National Mill Supply Co.
Paterson Mill Supply Co., **96 Doll av**
Paterson Reed & Harness Co., 235 Ellison
Quackenbush & Son
Quinn Bros., 9 Fair
Rigby, H. & Sons, 32 Vine
Rodgers, David G. Co., **204 Van Houten**
Smith, Abe, 51 Fair
Ulrich & Co.
Van Riper Mfg. Co., 14 Van Houten
**Van Winkle, J. A. Co., 168 Main**
Walder, Jacob (Textile)
Walker & Christie
PERTH AMBOY—**Elizabeth Hardware Co.**
McCormick, W. H. & Son
TRENTON—Corbett Supply Co.
*Crescent Belting & Packing Co.
Crook, A. M. & Son
Hunt, Jas. B. Mfg. Co.
Katzenbach, F. S. & Co.
Lanning, C. W.
Warren, Balderston & Co.
**WEEHAWKEN—Berger, Edw. W. & Bro.**

## NEW MEXICO.

ALBUQUERQUE—Whitney Co. (Also Mine)

## NEW YORK.

ALBANY—*Albany Belting & Supply Co., 372 Delahanty's, M. Son, 26 Green B'way
**Stoneman, M. G. & Son, 414 B'way**
Wirg, Robert B. & Son, 385 B'way
AMSTERDAM—Gardiner, E. W. Co.
Kolb, Frank E.
**Larrabee, J. E.**
AUBURN—Herron, P. M. Hardware Co.
Smith & Pierson
Wheeler, S. B.
BATAVIA—Russell & Palmer
BATH—Gould & Nowlen
BINGHAMTON—Babcock, Hinds & Underwood
Gaylord & Eltapence Co.
Morse, E. W. & Co.
BROOKLYN—(See N. Y. City, Borough of Brooklyn)
BUFFALO—Beals & Co., 46 Terrace
***BICKFORD & FRANCIS BELTING Co., 37 Pearl. (See adv. index, end of book)**
**BOSTON BELTING CO., 90 Pearl. (See adv. index, end of book)**
Buffalo Belting Works, 18 Ellicott
Buffalo Tool & Machine Co., 176 Terrace
Buffalo Mill Supply Co., 210 Main sq
Buffalo Wholesale Hdw. Co., Wash c S Division
Bushnell, Clarence E., 63 Carroll
**Case, W. A. & Son Mfg. Co., 31 Main**
Enterprise Oil & Supply Co., 2 Ohio
Fairbanks Co., 145 Seneca
**General Mercantile Co., 255 Washington**
***Goodyear Tire & Rubber Co., 719 Main**
Hendee-Connor Co., **36 W Seneca**
Hoffeld, R. & Co., 61 Carroll
**Iroquois Rubber Co., 379 Washington**
**Kemp Rubber Co., 326 Washington**
McCutcheon, C. H., 18 Ohio
Mahoney, Daniel & Sons, 17 Main
**Niagara Railway & Mill Supply Co., White**
**Peerless Belting Co., 76 Main bldg**
**Plumbers' & Steam Fitters' Supply Co.,** Root, Neal & Co., 178 Main 106 Pearl
**Ruckel, J. H. & Son, 81 Main**
Schaefer & Co., 226 Ellicott
Seltenreich, Louis F., **87 Main**
Squier, Geo. L. Mfg. Co., 490 B'way
Walbridge & Co., 392 Main
**Weed & Co., 292 Main**
Whittet, Barrett & Co., 59 Main
**Wright, A. B. & Co., 230 Washington**
CANANDAIGUA—Peck, Geo. W. Co.
**CARTHAGE—Strickland, J. E. & Son**
COHOES—Cheydieur, **J. B. Co.**
Kavanaugh, Geo. W.
Laughlin, Edwin B.
Scotland & Munro
Sweet & Doyle
CORTLAND—Gallup & Sherman Hardware Co.
ELMIRA—Baker Rose & Clinton Co.
Fuhrmann, Martin Hardware Co.
GENEVA—Emig & Hatmaker
GLENS FALLS—**Kalbfleisch, Theo. F.**
GLOVERSVILLE—Batcheller, E. S. & Co.
McGuire-Tymson Co.
**Sowle, J. E.**
GOUVERNEUR—Loveland, M. E.
Williams, D. H.
GREENE—Lyon Iron Works
**HAVERSTRAW—Lane, Chas. R.**
Rose & Johnson
Straut, W. H.
HOOSICK FALLS—Easton, Rising & Worden
HUDSON—Jones & Hardy
Parker, Byron
ILION—Newth, N. J. Hardware Co.
ITHACA—Treman, King & Co.
JAMESTOWN—Clarke Hdw. Co.
Rosencrantz, E. & Co.
JOHNSTOWN—McGuire & Tymson Co.
KINGSTON—Canfield Supply Co.
Johnson, J. T.
LITTLE FALLS—Burney Bros.
Burrell, D. H. & Co. (For Creamery & Cheese Factories, etc.)
Skinner & Oyston, 534 Main
Taylor, Jno. R. & Co.
LOCKPORT—Brown, E. S.
LONG ISLAND CITY—(See N. Y. City, Borough of Queens)
MECHANICVILLE—Safford, Henry D.
NEWBURGH—Smith, W. L.
NEW ROCHELLE—Dimock & Fink Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Brown, Jas. H., **139 Third av**
Foster & Jones, 30 B'way
**Jacobs, Geo. P. & Co., 276 S 9th**
**Kiley, Thos. W. & Co., 57 Grand**
**Knight, Thos. G. Co., 52 Myrtle av**
McElraevy & Hauch Co., **440 B'way**
Smyth-Donegan Co., 247 St. Marks
Wickes, John C. Co., 1988 B'way
Wohl, A., 612 B'way

### Boroughs of Manhattan & Bronx.

NEW YORK—Atkins, E. C. Co., 43 Warren
Barstow, Geo. C., 94 John
Beals, H. H., 51 Cliff
**BEGGS, JAS. & CO., Liberty &** Behrer & Co., 81 Beekman Church
Behringer, Edw. A., 104 Reade
Beith & Reilly Co., 2475 3d av
Bellows & Avery Co. (Also Government & Railway), **309 B'way**
Benjamin, Geo. P., 81 Fulton
Braunfels, Gilbert, 1940 Park av
Brown, Jas. H., 50 Beekman
Burnet Co., 69 South
Bushnell, John S. & Co., 174 Fulton
Callahan, Geo. & Co., 218 Front
Campbell Supply Co., 570 Columbus av
Chatwin, Alfred Supply Co. (Tools & Supplies), 401 Broome
Chase, Charles F., 39 Cortlandt
Chase, H. M. & H. F., 50 Church
Consolidated Packing & Supply Co., **136 Liberty**
Cornell & Underhill, Greenwich & Spring
Crane Co. (of Chicago), Est. 1855, **490** Cherry. (See adv. index, end of book)
Dame & Townsend Co., **Cliff & Fulton**
De Ronde, Frank S., 24 Stone
Dienst, A. P. & Co., 2604 **3d av**
Dimock & Fink Co., 220 **E 125th**
Dixon, Wm., 39 John
Dodge Mfg. Co., Cedar & Washington
Donegan & Swift, 6 Murray
Du Bois, F. N. & Co., 243 9th av
Dunham, Carrigan & Hayden Co., **127** Duane (Also Mine)
Eberhart, M. & Son Co., 76th & 1st av
Fairbanks Co., Broome & Lafayette
**FAIRBANKS, MORSE & CO., 30** Church, New York. (See adv. index, end of book)
*Fay Belting Co., 151 Lafayette
Fisher & Pagan, 24 Gold
Fitzgerald, M. J. Co., 58 Centre
Fox Bros. & Co., 126 Lafayette
Frasse Co., 30 Church
**FRASSE, PETER A. & CO., Canal** & Sullivan. (See adv. index, end of book)
Garlock Packing Co., 114 Liberty
Garrett, W. D. & Co., 136 Liberty
Giannini, G. W., 437 W 42d
Gibbons, Jno. V., **133 Greenwich**
Glauber, Sam S., 79th & 2d av
**GODFREY-KEELER CO., 70 Warren.** (See adv. index, end of book)
*Goodyear Rubber Co., 787 B'way
Graton & Knight Mfg. Co., 72 Warren
Greason Mfg. Co., 108 W. 99th
Greene, Tweed & Co., **109 Duane**
Griscom, Spencer Co., 90 West
**HAMMACHER, SCHLEMMER & Co., 133 4th av. (See adv. index, end of book)**
Harrison, John (Est. of), 169 South (Also Mine)
Irving Mfg. & Tool Co., 169 Chambers
Katzenstein, Leopold & Co., 358 West
Keasbey, Robt. A. Co., 100 N Moore
Kessel, Henry A. Co., 7 Water
*Ladew, Edw. R. (Est. of), 200 William
Leonard & McCoy, 161 Wash'n
**LESCHEN, A. & SONS ROPE CO.** (Belting, Packing, etc.), 90 West. (See adv. index, end of book)
McCoy, Henry J., 65 Dey
McMann & Taylor, 104 John
MacSorley Co., 44 Manhattan
Manning, Maxwell & Moore, **85 Liberty**
Marine Mfg. & Supply Co., **158 South**
Miller & McLean, 120 Liberty
Mine & Smelter Supply Co. (Mine), **42 B'way**
Mitchell-Bissell Co., 4th av & 20th
Montgomery & Co., 105 Fulton
Motley, Thornton N. & Co., 30 Church
Murray, Jno. A. Co., 310 W 39th
Murray, R. & H. J., 104 Reade
Murrell, Wm. G. & Bro., 546 W 40th
Nason Mfg. Co., 71 Beekman
Neal & Brinker, 18 Warren
**Neal & Scott Co., 81 Warren**
*New York Belting & Packing Co (Ltd.), **91**
Ogden, J. Edw. Co., 147 Cedar Chambers
Olney & Warrin, 66 Centre
Patterson Bros., 27 Park row
Patterson, Gottfried & Hunter (Ltd.), **211 Centre**
Pearson, J. H. Supply Co., 122 Centre
Peck, W. E. & Co., 116 Broad
Pfaff, George, 122 Centre
Pollock, Alex Co., 203 West
Read, H. P. Lead Works, 160 E 56th
Roberts, Geo. I. & Bros., 471 4th av
Robertson, Jas. L. & Sons, 78 Murray
**ROGERS, HENRY A. CO., 19 John** (See adv. index, end of book)
Rumsey Pump & Machine Co., **75 Warren**
Saginaw Mfg. Co., 88 Warren
Saunderson & Wright Co., 465 W B'way
**Schule, F. H. Co., 114 Liberty**

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*Schultz Belting Co. (of St. Louis, Mo.), 111
Secor, A. W., 65 Fulton Chambers
Sherman-Brown-Clements Co., 78 Murray
**SIMMONS, JNO. CO., 110 Centre.** (See adv. index, end of book)
Smith, G. & Son, 1858 Lexington av
Southwick, Geo. W. Co. (Inc.), 35 Warren
Standard Scale & Supply Co., 136 W B'way
Starratt & Jones Co., 131 Worth
Stephens & Conrow Co., 136 Liberty
**STRONG MACHINERY & SUPPLY Co., 48 Franklin.** (See adv. index, end
Stroh & Wilson, 420 W 42d of book)
Thompson & Moran, 508 Canal
Tucker Tool & Machine Co., 75 Murray
Urquhart's, Jno. S. Son Co., 131 Liberty
Walls, Bray & Co., 83 Walker
Walsh & Hartwig, 215 E 58th
Williams & Wells Co., 250 Fulton
Wilson, O. C. & K. R., 78 Dey

## Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon
Petry, Jno. W., 63 Vernon av av

## Borough of Richmond.

WEST NEW BRIGHTON—Staten Island Supply Co.

**(End of New York City)**

NIAGARA FALLS—Elderfield-Hartshorn Hardware Co.
NORTH TONAWANDA—Knapp-Cramer Hardware Co.
OGDENSBURG—Hackett, Patrick, Hardware
Nash Bros. & Co. Co.
ONEIDA—Cramer & Carpenter
OSWEGO—Oswego Hardware Co.
Oswego Tool Co.
PALMYRA—Garlock Packing Co.
PEEKSKILL—Naylor Bros.
Wessel, W. F.
PLATTSBURG—Plattsburg Foundry & Machine Co.
ROCHESTER—Barr & Creelman, 72 Exchange
Chamberlain Rubber Co.
*Cross Bros. & Co., 114 Mill
Davis, W. P. Machine Co.
Ernst, Louis & Sons
Falls, Frank H.
Forster, John M. Co.
Haverick & Co.
Hibbler, M. I. Machine Supply Co.
Mathews & Boucher, 26 Exchange
Sloan, Saml. & Co., 71 Exchange
Weaver, Palmer & Richmond, 12 Mill
Wright & Alexander Co., 270 State
ROME—Jackson, Charles H.
Townsend, Jno. Sons
Wardwell Hdw. Co.
SCHENECTADY—Armer, Wallace
Witbeck, Clark
SENECA FALLS—Rumsey & Co. (Ltd.)
SYRACUSE—Burhans & Black, 136 Salina
Fairbanks Co., 251 W Fayette
Foley, Jas. F., 211 Pearl
Joy, Edw. Co., 133 Market
McCarty, Chas. C., 300 W Water
McClure, R. C. Co., 329 S Clinton
Syracuse Supply Co. (Ltd.), 314 W Fayette
Tobin, Wm. N., 407 S Clinton
Welch & Kehoe, 214 Montgomery
Wood, C. H. Company, 401 S Clinton
TROY—*Barnum Bros. Co., 179 River
Duckrow, R. A., Boardman blk
Horan, Jas. J. & Co., 215 River
*Pine & Co., 745 3d av
Prankard, C. J. & Sons
*Troy Belting & Supply Co.
Warren, J. M. & Co., 245 River
UTICA—Bowman, Geo. A.
Kavanaugh, Geo. W.
Millar, Chas. & Son Co.
Munson Bros. Co.
Smyth & Despard Co.
Utica Novelty & Mill Supply Co.
WATERTOWN—Bradley, Thos. W.
Conde, W. W. Hardware Co.
Hunting Co.
Kalbfleisch Supply Co.
Spratt, Corcoran & Foley Co.
Weeks, John & Son Co., 22 Factory

## NORTH CAROLINA.

ASHEVILLE—Asheville Hdw. Co.
Asheville Supply & Foundry Co.
CHARLOTTE—Alexander & Garsed
American Machine & Mfg. Co. (Textile,
*Charlotte Leather Belting Co. etc.)
Charlotte Supply Co.
Cramer, S. W.
General Fire Extinguisher Co.
Liddell Co.
Mecklenburg Iron Works
Robbins, O. A.
Textile Mill Supply Co.
Washburn, A. H.
ELIZABETH CITY—Jones, D. M. Co.
GOLDSBORO—Dewey Bros.
GREENSBORO—Clymer, L. M.
Greensboro Boiler & Machine Co.
Greensboro Supply Co.
Odell Hardware Co.
HENDERSON—O'Neill, M. J.
NEWBERN—Gaskill Hardware & Mill Supply
Hyman Supply Co. Co.
RAEFORD—Raeford Hdw. Co.
RALEIGH—Raleigh Iron Works Co.
SALISBURY—Salisbury Supply & Commission
WASHINGTON—Fulford, N. S. Hdw. Co. Co.
McKeel-Richardson Hardware Co.
WILMINGTON—Hyman Supply Co.
Wilmington Iron Works.
WINSTON-SALEM—Crawford Plumbing & Mill Supply Co.

## NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)
Hall-Robertson Hdw. Co.
Harrington, Hubert
JAMESTOWN—Chenery & Anderson

## OHIO.

AKRON—*Akron Belting Co. (Belting, Hose, Hardware & Supply Co. etc.)
Ranney, Fred E.
ALLIANCE—Kay, Chas. Y.
ASHTABULA—Mitchell Hardware Co.
Paine & Ford Co.
Smith, Homer P.
BUCYRUS—Blair, E.
Pickring, D. & Co.
CAMBRIDGE—Branthoover & Johnston Co.
CANTON—Allman, W. H. Co. (Also Mine)
Canton Hardware Co.
Canton Supply Co.,
CINCINNATI—Acme Supply Co.
*American Oak Leather Co., Kenner & Dalton av
Boebinger Hdw. Co. (Also Hardware), 315 E
*Bradford Belting Co., Walnut & 2d Pearl
Buchanan, Thos. & Co., 216 Elm
Cincinnati Mine & Mill Supply Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Devon, V. N. & Co., 506 Central av
Dodge Mfg. Co., 128 W 3d
Eagle Counter Leather Co., 416 E 8th
Economy Machinery Co. (Jno. H. Flynn, Prop.), 428 E Pearl
**FAIRBANKS, MORSE & CO., 307 Walnut.** (See adv. index, end of book)
Fewlass-Leen Brass & Iron Co.
Greenwald, I. & E. Co., 720 E Pearl
Johnston, Wm. T. Co.
Kinsey, E. A. Co., 331 W 4th
McGowan, Jno. H. Co., 54 Central av
Merkel Bros., Canal & Jackson
Morris, E. K. & Co.
Nuhring, Chas. & Bro., 907 Walnut
Ohio Rubber Co., 612 Race
Peck-Hammond Heating & Ventilating Co.
Pickering Hardware Co., 5th & Main
Queen City Supply Co., Pearl & Elm
Randal Machinery Co., 1726 Powers
Rowe & Trunnel, 123 W 2d
Straub Machinery Co., 1956 W 6th
Thompson, Walter M.
Uihlein, Julius & Co.
Vulcan Supply Co., 120 Syracuse (Also Mine)
Wirthlin-Scallan Co., 331 W 3d (Also Mine)
CLEVELAND—**BARTLETT, C. O. &** Snow Co. (See adv. index, end of book)
Bingham, W. Co., 1433 W 9th
Cleveland Tool & Supply Co., 1515 Columbus rd, N W
Consumers' Rubber Co. (Rubber, etc.), 1407 W 6th, N. W.
**FAIRBANKS, MORSE & CO., 99** Water. (See adv. index, end of book)
Garlock Packing Co.
Ingraham, T.
Lake Erie Nail & Supply Co., 412 Frankfort av. (Also Mine)
Lockwood-Luethemeyer-Henry Co.
McIntosh Hardware Corporation
Maltby, Geo. B. Co.
Mau-Sherwood Supply Co.
National Supply Co., Euclid av
Ohio Rubber Co., 725 St. Clair av, N. E.
**PATTISON, W. M. SUPPLY CO.,** 197 St. Clair av. (See adv. index, end of
Philpott Rubber Co., 1364 W 3d book)
Republic Belting Co., 1616 W 3d (Also Mine)
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av., N. W. (See adv. index, end of book)
White Tool & Supply Co., 1313 W 6th, N. W.
Williams, R. A. & Co., 1614 Columbus rd, N W
Worthington, Geo. Co., 802 St. Clair av
COLUMBIANA—Enterprise Mfg. Co. (Sawmill)
COLUMBUS—Columbus Belting & Supply Co.
Columbus Mill & Mine Supply Co. (Also
Columbus Supply Co. Mine)
Keystone Refining Co.
Miller, Wm. H. Co.
Osborne & Sexton Machinery Co.
Potts, B. D.
Sackett Mine Supply Co. (Also Mine Sup-
Scioto Valley Supply Co. (Also Mine) plies)
Smith Bros. Hdw. Co.
Tallmadge Hardware Co.
Westwater Supply Co. (Also Mine)
CONNEAUT—Mitchell Hardware Co.
DAYTON—Dayton Supply Co.
Gump, Charles A.
Larkin, M. D. Supply Co.
Miami Valley Mill & Mine Supply Co.
Patterson Tool & Supply Co.
EAST LIVERPOOL—East Liverpool Foundry, Machine & Supply Co.
Milligan Hardware & Supply Co.
FINDLAY—Adams Bros. Co.
Went, C. H.
HAMILTON—Hamilton Supply Co.
KENTON—Cantwell Hardware Co.
MARIETTA—Frick & Lindsay Co.
MASSILLON—Oberlin, Charles E.
PIQUA—Angle Hardware Co.
Woodcox, I. N. & Son
PORTSMOUTH—Hibbs Hardware Co.
RAVENNA—Waller & Stewart
ST. MARYS—Jasperson Supply Co.
St. Marys Machine Co.
SALEM—Salem Hardware Co.
SANDUSKY—Sandusky Plumbing & Boiler Co
SPRINGFIELD—Burton, G. F. & Co.
Springfield Hdw. Co., 36 E Main
Vulcan Hardware Co.
TOLEDO—Arbuckle, Ryan Co. (Inc.)
Auburndale Hardware Co.
Bostwick-Braun Co.
Grosswiller, Jos. F. Supply Co.
Hardy & Dischinger Co.
Heavy Hardware Co.
National Supply Co.
Ohio Plumbers' Supply Co.
Star Hardware Co.
Stollberg Hardware Co.
Toledo Rubber Co.
Toledo Saw & Supply Co.
Wilcox, M. I. Co.
YOUNGSTOWN—Stambaugh-Thompson Co.
Wilkins-Leonard Hardware Co.

## OKLAHOMA.

CHICKASHA—Peacock J. D.
CLINTON—Welch Wholesale Hardware Co.
EL RENO—El Reno Foundry & Machine Co.
GUTHRIE—Southwestern Iron Co.
McALISTER—New State Iron & Supply Co.
Union Iron Works (Also Mine)
MUSKOGEE—Atlas Supply Co.
NOWATA—Nowata Hardware & Supply Co.
OKLAHOMA CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Sherman, N. S., Machinery Co.
PURCELL—Beringer Hardware Co.
SAPULPA—Boviard Supply Co.
TULSA—Oklahoma Iron Works

## OREGON.

ALBANY—Albany Iron Works (Inc.)
BAKER CITY—Basche-Sage Hardware Co.
GRANITE—Lindsay, Guy L. (Also Mine)
GRANTS PASS—Grants Pass Hardware Co.
Rogue River Hardware Co. (Also Mine)
PORTLAND—Arthur, J. M. & Co.
Atkins, E. C. & Co.
Avery & Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 1st & Stark.** (See adv. index, end of book)
Gauld Co., 14 N 1st
Goodyear Rubber Co., 4th & Pine
Hammond Mfg. Co., Kamm bldg (Also
Hicks, S. B. & Sons Co. Mine)
Kline, M. L.
Marshall-Wells Hardware Co. (Also Mine)
Mitchell, Lewis & Staver Co.
Nott-Atwater Co.
Pacific Coast Rubber Co.

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Portland Iron Works
Portland Machinery Co.
Simonds Mfg. Co. (of Fitchburg, Mass.)
Tatum & Bowen Co.
Western Supply Co.
Willamette Iron & Steel Works

## PENNSYLVANIA.

ALLENTOWN—Allentown Reed, Harness & Mill Supply Co.
Grammes, L. F. & Sons
Hersh, F. Hardware Co.
Taylor, William H. & Co.
Young, M. S. & Co.
ALTOONA—Standard Supply & Equipment Co. (Also Mine)
ASHLAND—Buck, Peter E. & Sons (Also Mine)
BEAVER FALLS—Brierly, F. F. & Sons
Davidson, W. J.
BLUE BALL—Shirk, P. E.
BRADFORD—Emery Hardware Co.
Oil Well Supply Co.
BUTLER—Campbell, J. G. & W.
CATASAUQUA—Fuller Oil & Supply Co.
Griffin Bros. (Mine)
CHESTER—Galey Hardware Co.
Harper Mfg. Co.
Howland, Wm. O.
Nuttall, Geo.
Riley, Benj. F.
Wetherill, Robt. & Co.
Wilby, Thos. & Son
CLEARFIELD—Clearfield Machine Shops
Dufton Hardware Co.
Johnson, Fred & Bro.
Powell, Wm. F.
CONNELLSVILLE—Schell Hardware Co. (Also
CONSHOCKEN—Bate, Wm. T. & Son Mine)
CORRY—Ajax Iron Works
Barlow Hardware Co.
DANVILLE—Danville Foundry & Machine Co.
DUBOIS—Dubois Iron Works (Also Mine)
Osborn Machine Co.
EASTON—Easton Foundry & Machine Co.
Macan, Jr., Co. (Inc.)
ERIE—Erie Mfg. & Supply Co.
Erie Rubber Co.
Northwestern Pipe & Supply Co.
United Hardware & Supply Co.
FRANKLIN—Producers' Supply Co.
HARRISBURG—Compton, S. R.
Gilbert, Henry & Son
McKillips, A.
Mather, Edmund & Co.
HAZLETON—Barber, J. F. & Co.
Bright & Co.
Hazleton Machinery & Supply Co. (Also Mine)
Woodring, Jeremiah & Co. (Also Mine)
HUNTINGDON—Miller, C. H. Hardware Co.
INDIANA—Keystone Supply Co.
JOHNSTOWN—Johnstown Supply House (Ltd.)
Swank Hardware Co. (Also Mine)
KANE—Kane Supply Co.
KINGSTON—Roat, A. J. Supply Co. (Also
LANCASTER—Herr & Co. Mine)
Reilly Bros. & Raub
Sheet Metal & Supply Co.
Steinman Hdw. Co.
LEBANON—Krause, Geo. Hardware Co.
MEADVILLE—Gill, D. A.
Lord, L. L. Co.
Rhodes, I. M. & Co.
MUNCY—SPROUT, WALDRON & CO. (See adv. index, end of book)
NEW CASTLE—Dickson & Co.
Smith, C. E. Hardware Co.
Smith, Hutton & Kirk Co.
Welch Hardware Co.
NORRISTOWN—*Keystone Belting & Supply
Quillman, Benjamin Hdw. Co. Co.
OIL CITY—Logan, Robert
OSCEOLA MILLS—Stine, S. B. (Mine Supplies a Specialty)
PATTON—Central Supply Co. (Also Mine)
PEN ARGYL—Correll, R. S. (Also Mining Supplies)
PHILADELPHIA—*Alexander Bros., 406 N 3d
Annear, Wm., 57 N 2d
Arny, C. W. & Son, Trenton & Somerset
Belfield, H. Co. (Packing, Hose, Cement, etc.), 435 N Broad
Bell, H. E. & Co., 212 Church
Billany & Cochrane, 527 Commerce
Billington, Jas. H. Co., 113 Chestnut
Blakeley, Jno. & Son, 1085 Gtn. av
Bond, Chas. Co., 520 Arch
Bowman, H. L. & Co., 31 S 4th
Boyd, Jas. & Bro., 14 N 4th
Bullock, C. K., 1357 Ridge av
Crane Co. (of Chicago) (Est. 1855), 245 Master. (See adv. index, end of book)
De Zouche, Hanson & Co., 60 N 2d (Also Mine)
Diamond Textile Machine Works, 1436 N 9th
Dodge Mfg. Co., 815 Arch
Etsweiler, Wm. (Leather, etc.), 230 N 3d
Fairbank Co., 701 Arch
Fifer & Beatty, Front st. & Lehigh av.
*Graton & Knight Mfg. Co., 132 N 3d
Gwilliam Supply Co., 1339 Ridge av
Haines, Jones & Cadbury Co., 1136 Ridge
Hanson, Jos., 179 W Lehigh av av
Houghton, E. F. & Co., 240 W Somerset
Jefferson, Edw. & Bro., 127 S 2d
Jenkins Bros., 133 N 7th
Kinkerter & Sheppard, 4669 Frankford
*Ladew, Edw. R. (Est. of) 14 S 3d av.
Latimer, R. L. & Co., 24 N Front
Latta, John S. Co., 1227 Arch
Levick's, Richard Son & Co. (Rubber Belting, Hose, Packing, etc.), 720 Chestnut
Maddock & Co., 40 N 6th
*Main Belting Co., 1235 Carpenter
Maneely, John, 309 Arch
Manning, Maxwell & Moore, 721 Arch
Manufacturers' Supplies Co., 418 Arch
Mitchell, F. A., 20th & Callowhill
Montgomery Bros., 45 S 2d
Mulconroy Co. (Inc.), 722 Arch
Naumann Hdw. & Supply Co., 4324 Gtn av
Pancoast, Henry B. & Co., 243 S 3d
Paulus, Jos. & Co., 2507 Potter
Pechin, Jno. W., Front & Fremont
Philadelphia Textile Machinery Co.
Powell, Clouds & Co. (Tools & Supplies), 602 Arch
Quaker City Rubber Co. (Chas. A. Daniel, Prop.) (A full line, also Mfrs. or Daniel's P. P. P. Packing), 629 Market
Rainear, C. J. & Co., 518 Arch
Restein, Clement Co., 139 N 2d
*Rhoads, J. E. & Sons (Leather, etc.), 12
Rich, J. & G., 126 N 6th N 3d
Savill, Thos. & Sons, 11th & Wood
Schade Valve Mfg. Co., 2528 N American
*Schieren Chas. A. & Co., 226 N. 3d
Sees & Faber Co., 2008 N Front
Shannon, J. B. Hdw. Co., 816 Chestnut
Shannon, J. Jacob & Co., 1744 Market
Shultz Belting Co., 116 N 3d
Smith, Jas. & Co., 1436 N 9th
Smith & Furbush Machine Co., N Hancock,
Snyder, M. L. & Son, 9 N 4th c Somerset
Spaulding & Metcalf, 532 Arch
Standard Supply & Equipment Co. (Also Wire), 1710 Market
Steel Heddle Mfg. Co. (Textile), 2110 W Allegheny av
Taylor, James (Textile), 121 Arch
Vance, Jas. M. & Co., 324 Market
Walters', W. P. Sons, 1233 Market
Williamson & Cassedy, 526 Market
Wise & Bailey, 108 Walnut
PHILLIPSBURG—Gills, John D. Sons (Mine)
Gowland Mfg. Co.
PHOENIXVILLE—Benjamin, N. H. Co.
PITTSBURG—Baird Machinery Co., 23d & Smallman
Bindley Hardware & Mfg. Co., 429 7th.
Briggs Machinery Co., 238 2d av
Bowman Supply & Mfg. Co., 890 Madrone
Brown & Zortman Machinery Co., 2545 Liberty av
Carlin Machinery & Supply Co., North Side
Childs, H. L. & Co. (Also Mine), 249 Water
Dodge Mfg. Co., 337 2d
Fairbanks Co., 316 2d av (Also Mine)
Flocker, Jno. & Co., 957 Liberty av
Frick & Lindsay Co., 109 Wood
Garlock Packing Co., 108 Smithfield
Green, L. A. Co., Park bldg.
Harris Pump & Supply Co., 320 2d av
*Hartley-Rose Belting Co., 425 1st av
Heyl & Patterson (Inc.), 53 Water
Hukill, Hunter Co., 28 Terminal way
Johnston-Morehouse-Dickey Co. (Also Mine).
Kelly & Jones Co., 135 Water 106 Market
*Ladew, Edw. R. (Est. of), 45 Terminal way
Lindsey, J. C. Hardware Co., 719 Liberty
Logan-Gregg Hdw. Co., 125 7th av
Manning, Maxwell & Moore, Park bldg
Mechanics' Supply Co.
Messenger-Pringle Co., 310 2d av
OIL WELL SUPPLY CO. (Also Mine), 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Phillips, J. & H., 627 Liberty av
Phillips Mine & Mill Supply Co., 2227 Jane
PITTSBURGH GAGE & SUPPLY CO (Also Mine), 30th & Liberty av. (See adv. index, end of book)
Pittsburg Rubber & Leather Co., 14 Wood
*Revere Rubber Co., Westinghouse bldg
Somers, Fitler & Todd Co., 327 Water
Speck, Marshall & Co., 314 2d av.
Standard Scale & Supply Co., 243 Water
Standard Supply & Equipment Co. (Also Mine), 1151 Liberty av
Trautman, C. Co., 1801 Carson
Turner, Chas. A. (Mill, Mine & Railroad Supplies), 14 Market
Woodwell, Jos. C., 201 Wood
POTTSTOWN—Fegely, J. & Son
POTTSVILLE—Bright & Co.
Pottsville Supply Co. (Principally Mine)
PUNXSUTAWNEY—Brown Hardware Co.
Punxsutawney Fdry. & Machine Co.
READING—Bard Hardware Co., 800 Penn
Bright & Co., 504 Penn
Greth Machine Works (Inc.), 627 Franklin
Obold, J. H. & Co., 3d & Penn.
Stichter Hdw. Co. (Ltd.), 505 Penn.
RIDGWAY—Ridgway Mfg. Co.
SCRANTON—Bittenbender & Co., 126 Franklin av
Foote & Becker
Hunt, Alex. E.
Lackawanna Supply Co.
Levi, Beno & Co., 409 Penn av
McClure, R. C. Co.
Maloney Oil & Mfg. Co.
Potter, L. B. & Co., 424 6th
Robinson & Baylor Corporation
Scott, Chas. B., 119 Franklin av
*Scranton Supply & Mach'y Co. (Also Mine)
SHARON—Fruit-Ohl & Co. (Also Foundry & Blast Furnace Supplies)
SOMERSET—Schell, P. A. & Co.
TITUSVILLE—Kernochan & Co.
United Hardware & Supply Co.
Young, E. R. & Sons
TUNKHANNOCK—Billings, Paul & Sons
UNIONTOWN—Uniontown Hdw. & Supply Co.
WARREN—Pickett Hdw. Co. (Also Mine)
WILKES-BARRE—Eastern Penna. Supply Co.
Phelps, Lewis & Bennett Co.
WILLIAMSPORT—Darling Pump & Mfg. Co.
Keeler, E. Co. (Ltd.)
Kline & Co. (Also Mine)
Link, Jas. H. Machinery Co.
National Foundry Mfg. & Supply Co.
*Slate's, Geo. Sons
Valley Iron Works
YORK—Farquhar, A. B. Co. (Ltd.)
Small, P. A. & S. Co.
Spangler Mfg. Co.
York Engineering Co.

## RHODE ISLAND.

EAST PROVIDENCE—Humes Mfg. Co.
PAWTUCKET—Bray, A. F. & F.
Blackstone Reed & Harness Co.
Duffy Bros. Hardware Co.
Easton & Burnham Machine Co.
Toole, Wm. K. Hardware Co.
PROVIDENCE—Allen & Reed (Inc.), 178 Dorrance
*American Supply Co., 135 Washington
Barker, Chadsey & Co., 38 Westminster
Brown Bros. Co., 62 Ex. pl.
Chase, F. A. & Co., 258 W. Exchange
Church, E. C. & Co., 5 Eddy
Conlin, J. C., 275 W. Exchange
General Fire Extinguisher Co., 34 S Water
Hawkes, J. Grant Co., 16 Exchange pl.
Hope Rubber Co. (All Kinds of Rubber Goods, etc.), 97 Westminster
Parkinson, Edward Mfg. Co.
Providence Mill Supply Co., 79 S Main
Providence Belting Co., 27 Charles
Rhode Island Supply & Engineering Co.
Ross, W. D., 220 Eddy
Spencer, Wilton H., 7 Ex. pl
Standard Mill Supply Co., 39 Ex pl
Talcott, W. O., 91 Sabin
Taylor, Chas. F., 15 Custom House
Thomas & Lowe Machinery Co., 66 W Exchange
Union Hardware & Electrical Supply Co., 109 Westminster
U. S. Mill Supply Co., 60 S Water
Vanstone Mfg. Co., Harrison c Westfield
WOONSOCKET—Darling, Chas. H.
Farnum, J. B. Co.
Getchell, S. S. & Son, 44 S Main
Woonsocket Machine & Press Co.
Woonsocket Supply Co., 125 S Main

## SOUTH CAROLINA.

ANDERSON—Sullivan Hardware Co.
BEAUFORT—Christensen, N. & Sons
CHARLESTON—Bird, W. M. & Co.
Cameron & Barkley Co.
Franke, C. D. & Co.
Valk & Murdoch Iron Works
COLUMBIA—Columbia Supply Co.
Gibbes Machinery Co.
Lorick & Lowrance
Southern States Supply Co.

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GEORGETOWN—Kaminski Hardware Co.
GREENVILLE—Carolina Supply Co.
Poe Hardware & Supply Co.
HARTSVILLE—Hartsville Supply Co.
SPARTANBURG—Charlotte Supply Co.
Ezell, S. B.
Montgomery & Crawford
Spartanburg Machinery Co.
SUMTER—Sumter Iron Works
Sumter Railway & Mill Supply Co.
WOODRUFF—Westmoreland, W. B. & Co.

## SOUTH DAKOTA.

RAPID CITY—Duhamel-Ackerman Co.
Sweeney, T. Hardware Co.
SIOUX FALLS—Larson Hardware Co.
Plumbing Supply Co.
WATERTOWN—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

## TENNESSEE.

BRISTOL — Mitchell-Powers Hdw. Co. (Also Virginia-Tennessee Hardware Co. Mine)
CHATTANOOGA—Chattanooga Saw Works
Fritts, Tom W. & Co.
James Supply & Hardware Co.
Lookout Supply Co.
Magill Hardware Co.
Standard Machinery Co. (Also Mine)
Wheland Machine Works
CLARKSVILLE—Elder-Conroy Hdw. Co.
CLEVELAND—Cleveland Machine Works
COVINGTON—Walker, M. A. & Co.
JACKSON—Southern Engine & Boiler Works
JOHNSON CITY—Summers-Parrott Hdwe. Co.
KNOXVILLE—Luttrell, S. B. & Co.
McClung, C. M. & Co.
Savage, W. J.
Southern Brass & Iron Co. (also Mine)
Tennessee Mill Supply Co.
MEMPHIS—Atkins, E. C. & Co.
Bailey, J. A. & Co.
Barnes & Miller Hardware Co.
Benedict, Warren Hardware Co.
Chickasaw Iron Works
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Ellis, Wm. C. & Sons Iron Works
Kennedy, J. D.
Lee Bros.
Livermore Iron & Supply Store
Pidgeon-Thomas Iron Co.
Reed & Duecker
Towner & Co.
NASHVILLE—Atlas Machine Co.
Bouchard, John & Sons Co.
Dale, John P. Machinery Co.
Fall, J. H. & Co.
Gray & Dudley Hdwe. Co.
Keith, Simmons & Co.
Nashville Plumbers' & Mill Supply Co.
Southern Mill Supply Co. (Also Mine)
Stewart-Bruckner Co.
TULLAHOMA—Lawson, T. D.

## TEXAS.

ABILENE—Spaulding Bros.
AUSTIN—Gossard, A. R.
Spaulding Bros.
Tips, Walter
BEAUMONT—Norvell-Wilder Hardware Co.
Wilson, E. L. Hdwe. Co.
BRENHAM—Roff & Miller
BROWNWOOD—Clingman-Timmins Hdw. Co.
DALLAS—Briggs Weaver Machinery Co.
Continental Gin Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Keating Implement & Machine Co.
Texas Machinery & Supply Co.
Wolfe, B. F. & Co.
DENISON—Hall-Leeper Hardware Co.
EL PASO — El Paso Foundry & Machine Co. (Also Mine)
Krakauer, Zork & Noyes (Also Mine)
Mine & Smelter Supply Co.
Momsen, Gus & Co.
FORT WORTH—Axtell Co.
Gamer Co.
Southern Trading Co.
Texas Mfg. Co.
GALVESTON—Blum Hardware Co.
Shearn, Paul, Sanitary Plumbing & Mfg.
Texas Engineers' Supply Co. Co.
HOUSTON—Ahrens & Ott Mfg. Co.
Barden Electric & Machinery Co.
Bering-Cortes Hardware Co.
Girten-Russ Supply Co.
Heitmann, F. W. Co.
Peden Iron & Steel Co.
Schopmeyer Mfg. & Supply Co.
Smith-Howard Co.
Texas Machinery & Supply Co.
Texas Rubber & Supply Co.
Texas Machinery & Supply Co.
Union Iron Works
JEFFERSON—Meyer, Eugene
Torrans Mfg. Co. (Also Mine)
LUFKIN—Lufkin Foundry & Machine Co.
ORANGE—Sabine Supply Co.
PALESTINE—Dilley, George M. & Son
PARIS—Bettes, H. S., Hardware Co.
Collins & Dulaney
SAN ANTONIO—Alamo Iron Works
Higgins Co.
San Antonio Foundry Co.
San Antonio Mach. & Supply Co.
SHERMAN—Hardwicke-Etter Hdwe. Co.
Roberts, Sanford & Taylor
Walsh, R.
TYLER—Connally, Walter & Co.
Daglish Mercantile & Mfg. Co.
WACO—June, D. & Co.
McLendon Hardware Co.
Strauss, Ed.

## UTAH.

OGDEN—Lowe, Geo. A. Co. (Also Mine)
SALT LAKE CITY—Crane Co. (of Chicago), (Est. 1855) (See adv. index, end of book)
FAIRBANKS, MORSE & CO., 218 S W Temple. (See adv. index, end of book)
Gailgher Machinery Co.
Hutchinson, C. P.
Salt Lake Hdwe. Co. (Also Mine)

## VERMONT.

BARRE—Reynolds & Son
Smith, Whitcomb & Cook Co.
BURLINGTON—Manson Hdwe. Co.
Strong Hdwe. Co.
CHESTER DEPOT—Davis, E. J.
MONTPELIER—Deming Hdwe. Co.
RUTLAND—Holmes Iron Works
Lincoln Iron Works
Steam Stone Cutter Co.
ST. JOHNSBURY—Hooker, O. V. & Son
SPRINGFIELD—La Fountain-Staples Co.
Parks & Woolson Mach. Co.
WHITE RIVER JUNCTION—Nott, H. L.
WINDSOR—Stone-Payson Co.
WINOOSKI—Stevens Machine Co.

## VIRGINIA.

FARMVILLE—Farmville Mfg. Co.
LAWRENCEVILLE—Sledge & Barkley Co.
LYNCHBURG—Ainslie-Martin Co.
Barker-Jennings Hdw. Co.
NORFOLK—Bowen, Jos. E.
Dodson, H. C.
Perry, Theo. A.
Porter & Moore Co.
Price, S. M. Machinery Co.
Southern Supply Co.
Taylor, W. H. & Co.
Walke, Henry Co.
Westbrook, Jno. D.
Whaley, W. M., & Co.
White, E. V. & Co.
PETERSBURG—Leonard, Chas. Hardware Co.
Stockdell-Myers Hardware Co.
Stratton & Bragg Co.
PULASKI—Price Hardware Co. (Also Mine)
Pulaski Hardware Co.
RICHMOND—Call-Watt Co.
Commonwealth Supply Co., Chamber of Commerce bldg
Frischkorn, Hunter B., 812 E Cary
Gordon Metal Co.
Lindsay, Jno. L., 1417 E Main
McGraw, Jas., 1442 E Main
Southern Railway Supply Co., 1323 E Main
Sydnor Pump & Well Co.
ROANOKE—Nelson Hardware Co. (Also Roanoke Hardware Co. (Also Mine) Mine)
SALEM—Salem Foundry & Machine Works
SUFFOLK—Folk, E. L. & Co.

## WASHINGTON.

ABERDEEN—Hicks, S. B. & Sons Co.
BELLINGHAM—Morse Hardware Co.
CENTRALIA—Gillam, H. C.
EVERETT—Agnew Hdw. Co.
Caldwell & Co.
Pacific Hardware Co. (Also Mine)
Sumner Iron Works (Inc.)
SEATTLE—Adair, Geo. B., 309 Occidental av
Atkins, E. C. & Co., 313 2d av S
Boole, Geo., Railroad & Occidental av
Bowles Co., 107 Jackson (Also Mine)
Caldwell Machinery Co.
California Saw Works
Corder, W. A. Co., 114 Railroad av
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., 309 Occidental av. (See adv. index, end of book)
Fox, J. E. Saw Works, 828 1st av S
Hallidie Machinery Co., 315 2d S
Hambach, A. Co., 305 1st av, S
Hicks, S. B. & Sons Co.
Meese & Gottfried Co.
Mill & Mine Supply Co.
Moore, Chas. C. & Co., 218 2d av S
Pacific Engineering Co., Burke bldg
Puget Sound Machinery Depot
Rubber Mfg. & Distributing Co.
Schwabacher Hardware Co., 1st av & Jackson st (Also Mine)
Seattle Hardware Co., 501 1st av
Seattle Machine Works, 37 W Lander
Simonds Mfg. Co.
Star Machinery Co., 1731 1st av
Tolsma, R. B. & Co., 912 1st, S
Union Machinery & Supply Co., 201 Jackson
United Iron Works
Vulcan Iron Works Co., 5th av c Seattle
Washington Rubber Co., 216 Jackson boul
Western Hdw. & Metal Co., 580 1st av, S
SPOKANE—Armstrong Machinery Co.
Arnold-Evans Co.
Barnard Mfg. Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (of Chicago, Ill. (See adv. index, end of book)
Holley, Mason, Hardware Co.
Jensen-King-Byrd Co.s.
McGowan Bros. Hardware Co.
Mitchell, Lewis & Staver Co.
National Iron Works
Nott-Atwater Co.
Spokane Hardware Co.
TACOMA—Caldwell Machinery Co. (of Seattle, Wash.)
Crane Co. (of Chicago, Ill.), Est. 1855. (See adv. index, end of book)
Hunt & Mottet Co.
Walsh & Gardner
Washington Machinery Depot
Washington Rubber Co.
WALLA WALLA—Hunt, Gilbert Co.

## WEST VIRGINIA.

BLUEFIELD—Bluefield Hardware Co. (Also Mine)
CHARLESTON—Burlew, N. S.
Capitol City Supply Co. (Also Mine)
Charleston Hdw. Co.
Goshorn Hardware Co.s.
Meyer Bros.
South Side Foundry & Machine Works (Also Mine)
CLARKSBURG—Hart Bros. Machine Co.
Osborn's, J. F. Sons
West Virginia Mine Supply Co.
Williams Hardware Co.
ELKINS—Baldwin-Chandler Supply Co.
FAIRMONT—Jacob & Hutchinson Hardware Co. (Principally Mining)
HUNTINGTON—Banks' Supply Co. (Also Jarvis Machinery & Supply Co. (Mine)
Miller Supply Co. (Also Mine)
NEW CUMBERLAND—Davis-Price Foundry & Machine Co.
PARKERSBURG—Parkersburg Machine Co.
Stiles Mfg. Co.
Turner, C. H. Co.
WESTON—Dancer Mfg. & Supply Co.
WHEELING—Berry, Chas. Supply Co.
Howe, A. D. Machinery Supply Co.
Otto-Heiskell Hardware Co.
Spears & Riddle Co.
Trimble & Lutz Supply Co. (Also Mine)

## WISCONSIN.

ANTIGO—Pioneer Iron Works
APPLETON—Schlafer Hardware Co.
Tesch, William
ASHLAND—Bretting, C. G. Mfg. Co.
EAU CLAIRE—Eau Claire Mill Supply Co.
Hobbs, W. H. Supply Co.
FOND DU LAC—Dallman & Cooper Supply Co.
GREEN BAY—Cooke, Wm. D.
Fontaine, B. Hardware Co.
Kimball, Chas. T.
Murphy Supply Co.
LA CROSSE—Kroner Hardware Co. (Inc.)
La Crosse Plumbing Supply Co.
Roosevelt, W. A. Co.
Tausche, V. Hardware Co.
MANITOWOC—Richards Iron Works (Also Engineers' Supplies)
MARINETTE—American Supply & Packing Co.
Westland, August

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MILWAUKEE—American Machinery & Construction Co.
Badger Machinery Co., 140 W Water
Goodyear Rubber Co., 382 E Water
Gross, Phillip Hardware Co., 126 Grand av
Hoffmann, B. Mfg. Co., 257 6th
Hoffmann & Billings Mfg. Co., 100 2d
Kramer, W. J. Oil Co., 214 Reed
Milwaukee Factory & Supplies
*Milwaukee Leather Belting Co.
Packard, O. L. Machinery Co., 165 W Water
Pritzlaff, John Hardware Co.
Rom, Robt. Co., 1101 St Paul av
Rundle-Spencer Mfg. Co.
Schmidt, Otto E. Belting & Rubber Co.
Trostel, A. & Sons
Western Iron Stores Co.
Wisconsin Machinery & Mfg. Co.
Yale, H. P. & Co.
NEENAH—Johnson Bros.
Krueger. Wm. & Co.
OSHKOSH—Barnes, J. A. Machinery Co.
Battis Bros.
Central Construction Co.
Clough & Co.
Hay Hardware Co.
RACINE—Buffham, W. S. & Sons
Greene, F. J. Engineering Works
Hoernel Hardware Co.
Langlois Co.
RHINELANDER—Lewis Hardware Co.
Rhinelander Iron Co.
Wood, T. C. Hardware Co.
SHEBOYGAN—Geele, F. Hardware Co.
Honald Bros., 420 N 8th
Koepsell, J. J., Hardware Co.
STEVENS POINT—Central City Iron Works
Cook, R. A.
WAUSAU—Murray, D. J. Mfg. Co.

## 7489— Milli-Voltmeters

Weston Electrical Instrument Co., Waverly Park, N. J.

## 7490— Milling Attachments

Adams Co., Dubuque, Ia.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Mining Machine Co., Cincinnati, O.
Garvin Machine Co., Varick & Spring, New York
Ideal Machine Co., Hartford, Conn.
Kempsmith Mfg. Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Osterlein Machine Co. (Vertical), Cincinnati, Ohio
Porter-Cable Machine Co., Syracuse, N. Y.
Pratt & Whitney Co., Hartford, Conn.

## 7491—Mills (Adjustable, Hollow)

(See also Mills, Hollow)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Geometric Tool Co., New Haven, Conn.
Modern Tool Co. (Hollow Milling Tool), Erie, Pa.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Rogers, John M. Works, Gloucester City, N. J.
**STANDARD TOOL CO., 6900 Central,** Cleveland, O. (See adv. index & branch offices, end of book)

## 7492— Mills (Alfalfa)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7493— Mills (Attrition)

Barnard & Leas Mfg. Co. ("Hercules," "Sovereign"), Moline, Ill.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buckeye Iron & Brass Works, Dayton, O.
**CALDWELL, H. W. & SON CO.** ("Foos"), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
Engelburg Huller Co. ("Halstead"), Syracuse, N. Y.
Excel Mfg. Co., Pottersville, N. J.
Munson Bros. Co., Utica, N. Y.
Robinson Mfg. Co. ("Unique"), Muncy, Pa.
**SPROUT, WALDRON & CO. ("Monarch"), Muncy, Pa. (See adv. index, end of book)**

## 7494—Mills (Ball Porcelain)

Sittig, J. W. (Hard, for Chemical Plants), 5 Beekman, New York

## 7495—Mills (Ball & Pebble)

Abbe Engineering Co., 220 B'way, New York
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Alsing, J. R. Co. (Tube), 90 West, New York
Bethlehem Foundry & Machine Co., South Bethlehem, Pa.
Bonnot Co., Canton, O.
Chalmers & Williams (Or Tube), Chicago Heights, Ill.
**CROSSLEY MACHINE CO., State &** Davis, F. M. Iron Works Co. ("Ferraris" Ball Mill), Denver, Colo.
Day, J. H. & Co., Cincinnati, O.
Denver Engineering Works Co. (Tube Mills), Denver, Colo.
Emerick, Geo. S. ("Emerick," Ball Pulverizer), Nazareth, Pa.
Hallidie Co. (Tube Mills for Wet or Dry Grinding), Spokane, Wash.
Hardinge Conical Mill Co., 50 Church, New York
Mosser, Wm. F. & Son, Allentown, Pa.
Patterson Foundry & Machine Co., East Liverpool, O.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Prosser, T. & Son ("The Krupp"), 15 Gold New York
Smidth, F. L. & Co., 50 Church, New York
**THROPP'S, JOHN E. SONS CO. (Pebble & Tube Only), ft of Lewis, Trenton, N. J.** (See adv. index, end of book)
Townsend Furnace & Machine Shop Co. (Ball), Albany, N. Y.
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York
Wellman-Seaver-Morgan Co. (Ball), Cleveland, Ohio

## 7496— Mills (Bark)

(See also Grinders, Edging)

Barry & Zecher Co. ("Eureka"), Lancaster, Pa.
Bartley, Wm. & Son ("Shultis") Sectional), Bartley, N. J.
Eyster, Weiser & Co. (Ltd.), York, Pa.
Horn, Wm. H. & Bro., 451 N 3d, Phila., Pa.
Ott, Benj. & Sons ("Ott's" Bark Shaving), La Crosse, Wis
Raymond Bros. Impact Pulverizer Co. (For Peruvian Bark, etc.), Chicago, Ill.
Shapley & Wells, Binghamton, N. Y.
Stokes, F. J. Machine Co., Phila., Pa.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Waterville Foundry & Machine Co., Waterville, N. Y.
Wickes Bros., Saginaw, Mich.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

## 7497— Mills (Billet)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
National Roll & Foundry Co., Avonmore, Pa.

## 7498—Mills (Bone & Shell)

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Bayley, Wm. Co. ("Bayley" Hand Bone), Springfield, O.
Bell, C. S. Co. ("Don," Hand Bone), Hillsboro, Ohio
**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Campbell, P. F., 55 Laurel, Phila., Pa.
Dempwolf, C. H. & Co., York, Pa.
Flynn & Emrich Co., Baltimore, Md.
Freeman, S. & Sons Mfg. Co. ("Freeman" Hand Bone), Racine, Wis.
Holmes & Blanchard Co., Boston, Mass.
Messinger Mfg. Co. (Hand Bone), Tatamy, Pa.
Miller, L. J. (Bone), Cincinnati, O.
Mountville Mfg. Co. ("Reliable" Hand Bone), Mountville, Pa.
New Winona Mfg. Co. ("Diamond" Hand Bone), Winona, Minn
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Sackett, A. J., Baltimore, Md.
Stedman Fdry & Machine Works, Aurora, Ill.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.
Wilson Bros. ("Wilson" Hand & Power Bone), Easton, Pa.

## 7499—Mills (Boring & Turning)

Bickford, H. & Co., Lakeport, N. H.
Bullard Machine Tool Co. ("Standard"), Bridgeport, Conn.
Cleveland Machine Tool Works (Horizontal Boring, Drilling & Milling), Cleveland, O.
Colburn Machine Tool Co. (Vertical, 30 to 72-in Swing), Franklin, Pa.
Covington Machine Co., Covington, Va.
Detrick & Harvey Machine Co. (Horizontal Drilling, Boring & Milling), Baltimore, Md.
Espen-Lucas Machine Works (Stationary & Portable, Horizontal Multiple Spindle Boring Mills), 342 N 15th, Phila., Pa.
Franklin Machine Co., Franklin, Pa.
Gisholt Machine Co., Madison, Wis.
King Machine Tool Co. (Vertical, 42, 50, 60 & 72-inch Size), Cincinnati, O.
New Haven Mfg. Co., New Britain, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Poole, J. Morton Co. (Large, Steel Gear Driven), Wilmington, Del.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty,** New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Rogers Machine Tool Co., Alfred, N. Y.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Warner & Swasey Co., Cleveland, O.

## 7500—Mills (Boring & Turning, Vertical)

(See also Mills, Boring & Turning)

Baker Bros., Toledo, O.
Bausch Machine Tool Co., Springfield, Mass.
Betts Machine Co. (5 to 20 ft. Swing), Wilmington, Del.
Bullard Machine Tool Co., Bridgeport, Conn.
Colburn Machine Tool Co. (30 to 72 inch Swing), Franklin, Pa.
Detrick & Harvey Machine Co., Baltimore, Md.
Flather, E. J. Mfg. Co., Nashua, N. H.
Gisholt Machine Co. (Boring & Turning, Rapid Operation Tools, Boring Turning & Drilling), Madison, Wis.
Harrington, Edwin Son & Co., 17th & Callowhill, Phila., Pa.
King Machine Co. (42, 50, 60 & 72 inch Size), Cincinnati, O.
Mitts & Merrill, Saginaw, Mich.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Poole, J. Morton Co., Wilmington, Del.
Rogers Machine Tool Co., Alfred, N. Y.
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.

## 7501—Mills (Brass Cinder)

**CENTRAL IRON WORKS (For Saving** Brass from Furnace Ashes, Skimmings, etc.), Quincy, Ill. (See adv. index, end of book)

## 7502— Mills (Buhr Stone)

Barnard & Leas Mfg. Co. (French Burr), Moline, Ill.
Campbell, P. F., 55 Laurel, Phila., Pa.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Day, J. H. & Co., Cincinnati, O.
Ehrsam, J. B. & Sons Mfg. Co. (Vertical), Enterprise, Kans.
Lamb & Co., Freeport, Ill.
New Winona Mfg. Co. ("Diamond" French), Winona, Minn.
Nordyke & Marmon Co., Indianapolis, Ind.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
**SPROUT, WALDRON & CO. ("Monarch,"** All Kinds), Muncy, Pa. (See adv. index, end of book)
Starr, B. F. Co. (For Flour & Corn Mills), 455 North Baltimore, Md.
Straub Machinery Co., Cincinnati, O.
Walker & Elliott, Wilmington, Del.

## 7503—Mills (Car Wheel Boring)

Niles-Bement-Pond Co., 111 B'way New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

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## 7504—Mills (Charcoal Grinding)

**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7505— Mills (Chaser)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)

## 7506— Mills (Chilian)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams (Automatic), Chicago Heights, Ill.
Colorado Iron Works Co., Denver, Colo.
Currier, Cyrus & Sons, Newark, N. J.
Davis, F. M. Iron Works Co., Denver, Colo.
Hallidie Co. (Slow Speed), Spokane, Wash.
Lane Slow Speed Chilian Mill Co. ("Lane" Slow Speed), Los Angeles, Cal.
**POWER & MINING MACHINERY CO.** ("Evans-Waddell"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York
Wellman-Seaver-Morgan Co., Cleveland, O.

## 7507— Mills (Chlorination)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Stearns-Roger Mfg. Co., Denver, Col.

## 7508—Mills (Cider & Cider Presses)

(See also Presses, Wine & Cider)

Ames Plow Co., Quincy Hall, Boston, Mass.
American Seeding Machine Co. (Mills), Springfield, O.
**BOOMER & BOSCHERT PRESS CO.,** Syracuse, N. Y. (See adv. index, end of book)
Cardwell Machine Co., Richmond, Va.
Comstock, Geo. S. ("Triumph"), Mechanicsburg, Pa.
Cutaway Harrow Co., Higganum, Conn.
Farquhar, A. B. Co. (Mills & Presser), York, Pa.
Greenville Implement Co., Greenville, Mich.
Hench & Dromgold Co., York, Pa.
Hocking Valley Mfg. Co., Lancaster, O.
Hydraulic Press Mfg. Co. (Presses), Mount Gilead, O.
Keystone Farm Machine Co. ("Jamit," "Medium," "Keystone"), York, Pa.
Klotz Machine Co. (Presses), Sandusky, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Thomas-Albright Co. (Presses), Goshen, Ind.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.

## Mills (Cinder)

(See Mills, Water Cinder)

## 7509— Mills (Cocoa)

Nordyke & Marmon Co., Indianapolis, Ind.
Straub Machinery Co., Cincinnati, O.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7510—Mills (Coffee or Spice)

Alsing, J. R. Co. (Inc.) (Spice Mills), 90 West, New York
**ARCADE MFG. CO. ("Crystal"** Family Coffee Mill, also "Bell," "Telephone," "Jewell," "Monarch," "X-Ray," "Excelsior," "Crescent," "Royal," "Oriental," "King," "Home," "Imperial," "Favorite," "Arcade"), Freeport, Ill. (See adv. index, end of book)
Bronson-Wolton Co. ("Aroma," "Ever Ready," "Euclid," "Hiawatha," "Holland Beauty," "Monitor," "None-Such," "Old Oak," "Prospect," "Tiger," Family), Cleveland, Ohio
**BROWN, A. & F. CO. ("Cogswell,"** for Spices Only), 172 Fulton, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
Campbell, P. F. (Grocers' & Horse Power), 55 Laurel, Phila., Pa.
Cole Mfg. Co. (Electric Coffee), 1625 N 23d, Phila., Pa.
Deer, A. J. Co. (Electric), Hornell, N. Y.
Devlin, Thos. Mfg. Co., Phila., Pa.
Engle Coffee Mill Co. (Coffee), Newton, Ia.
Enterprise Mfg. Co. ("Enterprise" Hand & Electric Power), 3d & Dauphin, Phila., Pa.
Hardware & Woodenware Mfg. Co. ("Brighton," "Steareine" & "Excelsior"), 693 Broadway, New York
Hobart Electric Mfg. Co. ("Hobart" Electric Coffee Mills), Troy, O.
Howe Scale Co., Rutland, Vt.
Huntley Mfg. Co., Silver Creek, N. Y.
Jenney Electric Mfg. Co. ("Jenney" Electric), Anderson, Ind.
Landers, Frary & Clark ("Crown," "Universal" & "Regal" Coffee Mills), New Britain, Conn.
Lane Bros. Co. ("Swift"), Poughkeepsie, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
Parker, Chas. Co., Meriden, Conn.
Reuter-Jones Mfg. Co., St. Louis, Mo.
Ross, Chas. & Son Co. (Spice), 148 Classon av, Brooklyn, N. Y.
Steiner Mfg. Co. (Electric), St. Louis, Mo.
Stimpson Scale & Mfg. Co. (Grocers', Hand & Electric Power), Northville, Mich
Smith's, Jno. E. Sons Co. (Spice Mills), Buffalo, N. Y.
**STROUD, E. H. & CO. (Power Mills),** 55 W Kinzie, Chicago, Ill. (See adv. index, end of book)
Sun Mfg. Co. (Family Coffee Mills), Columbus, O.
Waddell Woodenware Works Co., Greenfield, O
Woodruff & Edwards Co. ("Elgin National"), Elgin, Ill.
Wrightsville Hardware Co. ("Premier"), Wrightsville, Pa.

## 7511—Mills (Cold Rolling)

Blake & Johnson Co. (For Flattening Wire), Waterbury, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
National Roll & Machine Co., Avonmore, Pa.

## Mills (Concentrating)

(See Mills, Stamp)

## 7512— Mills (Conical)

Abbe Engineering Co. ("Abbe," Double), 220 B'way, New York
Hardinge Conical Mill Co. ("Hardinge"), 50 50 Church, New York

## Mills (Continuous)

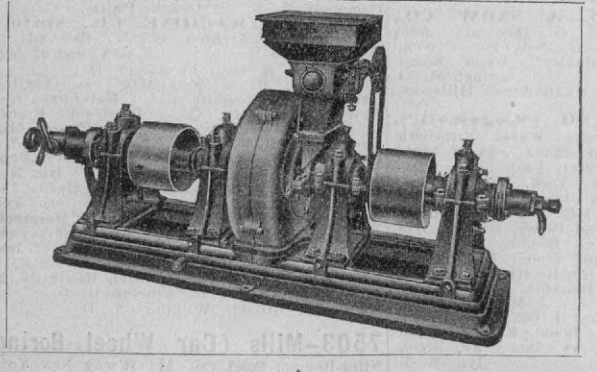
(See Rolling Mills, Continuous)

## 7513— Mills (Corn Oil)

**ELMES. CHAS. F. ENGINEERING** Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**ROCK ISLAND MFG. CO., Rock Isl-** and, Ill. (See adv. index & branch offices, end of book)

## 7514—Mills (Corn & Cob)

**ALLIS-CHALMERS CO. (Corn Mills),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Appleton Mfg. Co., Batavia, Ill.
Barnard & Leas Mfg. Co., Moline, Ill.
Barry & Zecher Co. (B. & Z." "Eureka"), Lancaster, Pa.
Batavia Wind Mill Co., Batavia, Ill.
Bell, C. S. Co., Hillsboro, O.
Bowsher, N. C. Co., South Bend, Ind.
**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Case Mfg. Co. (Corn), Columbus, O.
Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
Cole, R. D. Mfg. Co., Newman, Ga.
Duplex Mill & Mfg. Co. ("Kelly," "Duplex" 2 to 20 H. P.), Springfield, O.
Eureka Bark Mill Co., Lancaster, Pa.
Excel Mfg. Co., Pottersville, N. J.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Great Western Mfg. Co., Leavenworth, Kans.
Hardware & Woodenware Mfg. Co. (Domestic for Corn, Rice, etc., Capacity 1 qts.), 693 Broadway, New York
Keystone Farm Machine Co., York, Pa.
Munson Bros. Co. (Corn), Utica, N. Y.
New Winona Mfg. Co. ("Diamond"), Winona, Minn.
Nordyke & Marmon Co., Indianapolis, Ind.
Perkins Wind Mill Co., Mishawaka, Ind.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Robinson Mfg. Co. ("Iron Clad" Corn Ear Crusher), Muncy, Pa.
**ROCK ISLAND MFG. CO., Rock Isl-** and, Ill. (See adv. index & branch offices, end of book)
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

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Salem Iron Works. (Little Giant), Winston-Salem, N. C.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
**SPROUT, WALDRON & CO. ("Monarch," All Kinds), Muncy, Pa.** (See adv. index, end of book)
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Sterling Mfg. Co. ("Sterling"), Sterling, Ill.
Stover Mfg. Co. ("Ideal," Power Mills), Freeport, Ill.
Strong-Scott Mfg. Co. ("Northway" Power), Minneapolis, Minn.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
U. S. Wind Engine & Pump Co. (Corn), Batavia, Ill.
Whitehurst, R. W. & Co. (Corn), Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.
Wilson Bros., Easton, Pa.

## 7515— Mills (Cotter)

**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)

## 7516— Mills (Cyanide)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Arizona & Sonora Mfg. Co., Nogales, Ariz.
Denver Engineering Works Co., Denver, Colo.
Merralls Mill Co. (Roller Mills), San Francisco, Cal.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Stearns-Roger Mfg. Co., Denver, Colo.
Traylor Engineering Co., Allentown, Pa.

## Mills (Disintegrating)

(See Disintegrators)

## 7517— Mills (Drug)

Abbe Engineering Co., 220 B'way, New York
Alsing, J. R. Co. (Inc.), 90 West, New York
**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Campbell, P. F., 55 Laurel, Phila., Pa.
Carey, Samuel, 17 State, New York
Colton, Arthur Co., Detroit, Mich.
**CROSSLEY MACHINE CO., State & Monmouth, Trenton, N. J.** (See adv. index, end of book)
Day, J. H. & Co., Cincinnati, O.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
Hardware & Woodenware Mfg. Co. ("Brighton" Hand Power), 693 B'way, New York
Holmes & Blanchard Co., Boston, Mass.
Landers, Frary & Clark, New Britain, Conn.
Lane Bros. Co. ("Swift"), Poughkeepsie, N. Y.
Mead & Co., Detroit, Mich.
National Specialty Mfg. Co., 3d c Lehigh av, Philadelphia, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Parker, Chas. Co., Meriden, Conn.
Prosser, Thos. & Son ("Krupp"), 15 Gold, New York
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Stokes, F. J. Machine Co., Phila., Pa.
Straub, A. W. Co., 3737 Filbert, Phila., Pa.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Waterville Fdry & Mfg. Co., Waterville, N. Y.

## 7518— Mills (Dye Stuff)

**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

## 7519—Mills (Emery Rock)

**SPROUT, WALDRON & CO. ("Monarch"),** Muncy, Pa. (See adv. index, end of book)
Sturtevant Mill Co., Dorchester, Boston, Mass.

## 7520— Mills (End)

(See also Cutters, Milling)
American Die & Tool Co. (Shell), Reading, Pa.
Barber-Colman Co. (Straight, Spiral, Shell; also with Center Cut), Rockford, Ill.
Becker Milling Machine Co. (Spiral Fluted, etc.) Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO.,** Detroit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE** Co. (With Center Cut & With Spiral Flutes, etc.), New Bedford, Mass. (See adv. index, end of book)
National Tool Co., Cleveland, O.
National Twist Drill & Tool Co. ("National," with Spiral Flutes, etc.), Detroit, Mich.
Porter-Cable Machine Co., Syracuse, N. Y.
Pratt & Whitney Co., Hartford, Conn.
**STANDARD TOOL CO. (Straight** Fluted, Spiral & Center Cut), 6900 Central, Cleveland, O. (See adv. index & branch offices, end of book)
Sturtevant Mill Co., Dorchester, Boston, Mass.
Union Twist Drill Co., Athol, Mass.

## 7521—Mills (Exhaust Tumbling)

**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)
Sly, W. W. Mfg. Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 7522 Mills (Fanning)

American Grain Separator Co. ("X-L."), Minneapolis, Minn.
Ames Plow Co., Quincy Hall, Boston, Mass.
Avery Mfg. Co., Peoria, Ill.
Beeman & Co., Minneapolis, Minn.
Belcher & Taylor Agric. Tool Co., Chicopee Falls, Mass.
Billups, C. Son & Co., Norfolk, Va.
Brennan & Co., Louisville, Ky.
Bristol & Gale Co. ("B & G"), 158 W North Water, Chicago, Ill.
Buch's, A. Sons Co., Elizabethtown, Pa.
Campbell, Manson Co., Detroit, Mich.
Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
Cleland, A. V., Minneapolis, Minn.
Dewey Mfg. Co., Winnebago City, Minn.
Dickey, E. P. Fanning Mill Co., Racine, Wis.
Durling, A. N., Detroit, Mich.
Ferrell, A. T. & Co., Saginaw, Mich.
Foster & Williams Mfg. Co. ("Badger State"), Racine, Wis.
Freeman, S. & Sons Mfg. Co. ("Centennial"), Racine, Wis.
Genesee Valley Mfg. Co., Mount Morris, N. Y.
Grollimund, M., Fergus Falls, Minn.
Harder Mfg. Co., Cobleskill, N. Y.
Hirsch Bros., Milwaukee, Wis.
Hosford, Jno., Monroeville, O.
Huntley Mfg. Co., Silver Creek, N. Y.
Johnson & Field Mfg. Co. ("Racine"), Racine, Wis.
Keller Mfg. Co., Sauk Centre, Wis.
Kingman & Co., Peoria, Ill.
Messinger Mfg. Co., Tatamy, Pa.
Miller Bros. Mfg. Co., Alexandria, Ind.
Nash, H. D. & Co., Sacramento, Cal.
Newark Machine Co., Newark, O.
Owatonna Fanning Mill Co., Owatonna, Minn.
Owens, J. L. Co., Minneapolis, Minn.
Putney, C. H., Lyons, N. Y.
Racine Implement Co., Racine, Wis.
Reist, J. R. & Son, Harrisburg, Pa.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Solar Mfg. Co., Kaukauna, Wis.
Sperry Mfg. Co., Owatonna, Minn.
Trappe, Chas. H., Mascoutah, Ill.
Twin City Separator Co., Minneapolis, Minn.

## 7523—Mills (Feed Grinding)

Ajax Mfg. Co. ("Standard"), N S, Pittsburg, Pa.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Althouse Wheeler Co. (For Meal, Graham Flour, etc.), Waupum, Wis.
American Bell & Foundry Co., Northville, Mich.
Anderson Company, ("Invincible"), St. Paul,
Appleton Mfg. Co., Batavia, Ill. Minn.
Baker Mfg. Co., Evansville, Wis.
**BARTLETT, C. O. & SNOW CO.,** French st., Cleveland, O. (See adv. index, end of book)
Batavia Wind Mill Co., Batavia, Ill.
Bauer Bros. Co. (Farmers'). Springfield, O.
Bayley, Wm. Co., Springfield, O.
Beery Mfg. Co., Upper Sandusky, O.
Bell, C. S. Co., Hillsboro, O.
Beneca Iron Works, Beneca, Cal.
Blue Valley Mfg. Co., Manhattan, Kan.
Bovee Grinder & Furnace Works, Waterloo, Ia.
Bowsher, N. P. Co., South Bend, Ind.
Bristol & Gale Co., 158 W North Water, Chicago Ill.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buckeye Feed Mill Co., Springfield, O.
Caldwell Mfg. Co., Columbus, Ind.
Challenge Co. (Sweep & Belt Power), Batavia, Ill.
Children's, E. Sons Mfg. Co., Council Bluffs, Iowa
Cook Mfg. Co., Albion, Mich.
Cooper, A. A. Wagon & Buggy Co., Dubuque, Ia.
Currie Wind Mill Co., Topeka, Kans.
Dain Mfg. Co., Ottumwa, Ia.
Dempster Mill Mfg. Co., Beatrice, Neb.
Double Power Wind Mill Co., Appleton, Wis.
Duplex Mfg. Co., Station "B," Superior, Wis.
Duplex Mill & Mfg. Co. ("Kelly," "Duplex" 2 to 20 H. P.S, Springfield, O.
Dutton, E. Q. & Co., Cato, N. Y.
Eagle Fdry & Machine Co., Fort Scott, Kans.
Eagle Machine Co., Lancaster, O.
Eagle Mfg. Co., Appleton, Wis.
Elgin Wind Power & Pump Co., Elgin, Ill.
Enterprise Mfg. Co. (Steam & Horse Power), Columbiana, O.
Eureka Fence Mfg. Co., Richmond, Ind.
Excel Mfg. Co., Pottersville, N. J.
**FAIRBANKS, MORSE & CO. ("Fairbanks-Morse," Power & Hand),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flinchbaugh Mfg. Co., York, Pa.
Fosston Mfg. Co., St. Paul (Merriam Park), Minn.
Globe Foundry & Machine Co., Sheboygan, Wis.
Great Western Mfg. Co., Leavenworth, Kans.
Hamachek, Frank, Kewanee, Wis.
Heebner & Sons, Lansdale, Pa.
Hench & Dromgold Co., York, Pa.
Hercules Mfg. Co., Centerville, Ia.
Howell, R. R. & Co., Minneapolis, Minn.
Hunt, Gilbert Co., Walla Walla, Wash.
Hutchison, Jno. Mfg. Co., Jackson, Mich.
**INTERNATIONAL HARVESTER CO.** of America ("International"), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Jenkins Hay Rake & Stacker Co., Chillicothe, Mo.
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Kansas City Hay Press Co., Kansas City, Mo.
Kelly Mfg. Co., Waterloo, Ia.
Kelly, O. S. Western Mfg. Co. ("Duplex"), Iowa City, Ia.
Keystone Farm Machine Co., York, Pa.
Lansing Motor & Pump Co., Lansing, Mich.
Litchfield Mfg. Co., Waterloo, Ia.
Marseilles Mfg. Co., East Moline, Ill.
Martin, M. R., St. Louis Park, Minn.
McCargar, L. B. Feed Mill Co. ("Lightning" Triple Gear), St. Joseph, Mo.
Messinger Mfg. Co., Tatamy, Pa.
Miller, L. J., Cincinnati, O.
Moore Plow & Implement Co., Greenville, Mich.
Morley Twine & Machinery Co., Sioux City, Ia.
Munson Bros. Co., Utica, N. Y.
New Holland Machine Co. ("New Holland"), New Holland, Pa.
New Winona Mfg. Co. ("Diamond"), Winona, Minn.
Nordyke & Marmon Co., Indianapolis, Ind.
Ohio Mfg. Co., Upper Sandusky, O.
Patch, A. H., Clarksville, Tenn.
Peerless Cream Separator Co., Waterloo, Ia.
Perkins Wind Mill Co., Mishawaka, Ind.
Phelps & Bigelow Wind Mill Co., Kalamazoo, Mich.
Phillips, T. L. ("Aurora"), Aurora, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Roberts, Thos., Springfield, O.
Rogers Iron Co., Springfield, O.
Rockford Engine Works ("Rockford" Power), Rockford, Ill.
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
St. Albans Foundry & Implement Co., St. Albans, Vt.
St. Johns Foundry Co., St. Johns, Mich.
Salem Iron Works, Winston Salem, N. C.
Sandwich Mfg. Co., Sandwich, Ill.
Smalley Mfg. Co., Manitowoc, Wis.
Smith & Pomeroy Wind Mill Co., ("Eureka") Kalamazoo, Mich.
South Bend Foundry Co., South Bend, Ind.

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Southern Engine & Boiler Works (Inc.), Jackson, Tenn
Spartan Mfg. Co. ("Corn-Belt"), Pontiac, Ill
**SPROUT, WALDRON & CO. ("Monarch," Ali Kinds),** Muncy, Pa. (See adv. index, end of book)
Star Mfg. Co. (Sweep & Belt Power), New Lexington, O.
Starr, B. F. & Co., Baltimore, Md.
Sterling Mfg. Co., Sterling, Ill.
Stover Mfg. Co. ("The Ideal," also with Horse Power Combined), Freeport, Ill.
Straub, A. W. Co., Phila., Pa.
Straub Machinery Co., Cincinnati, O.
Strong-Scott Mfg. Co., Minneapolis, Minn.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Swift Mfg. Co., Waterloo, Ia.
Thornburgh Mfg. Co. (Triple Geared & Direct Acting Sweep), Bowling Green, O.
Turner Mfg. Co., Port Washington, Wis.
Union Foundry & Machine Co., Mansfield, O.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Victor Feed Mill Co., Springfield, O.
Watts Mfg. Co., Jackson, Mich.
Whitman Agricultural Co., St. Louis, Mo.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.
Wilson Bros., Easton, Pa.
Woodcock, J. C. & Co., Litchfield, Ill.
Zimmerman Steel Co., Lone Tree, Ia.

## 7524— Mills for Enamel

Ross, Chas. & Son Co. ("Eccentric"), 148 Classon av, Brooklyn, N. Y.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7525—Mills for Grinding Chemicals

**BROWN, A. & F. CO., 25 Dey, New** York. (See adv. index, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7526—Mills (Gold & Silver)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices end of book

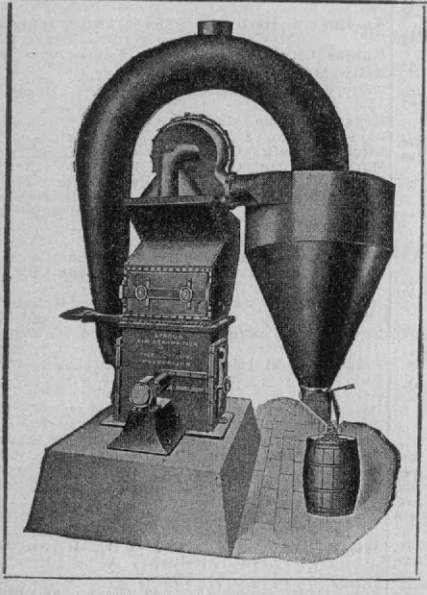
## 7527—Mills (Grinding & Crushing)

(See also Machinery, Pulverizing)

Abbe Engineering Co., 220 B'way, New York
Acton, John, 118 John, Brooklyn, N. Y.
**BARTLETT, C. O. & SNOW CO.,** (Cement, Paint, Spices, etc.), French st. Cleveland, O. (See adv. index & branch offices, end of book)
Bauer Bros. Co. ("Scientific"), Springfield, O.
Bovee Grinder & Furnace Works, Waterloo, Ia.
Bradley Pulverizer Co. ("Griffin"), 92 State, Boston, Mass.

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Bukeeye Iron & Brass Works (Plaster), Dayton, Ohio
Campbell, P. F. (For Drugs, Fertilizers, Whiting, etc.), 55 Laurel, Philadelphia, Pa.
Carey, Samuel, 17 State, New York
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Currier, Cyrus & Sons (For Plastic Materials), Newark, N. J.
Day, J. H. Co. ("Day's" Little Giant, for Soft Ores, Clays, Dry Colors, etc.), Cincinnati, Ohio
Emerick, Geo. S., Nazareth, Pa.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Excel Mfg. Co., Pottersville, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gump, B. F. Co. (Flour, Drug, Chicory, etc.), 429 S Clinton, Chicago, Ill.
Hardinge Conical Mill Co., 50 Church, New York
Johnson Engineering Works ("Johnson," Marathon Multiple Roll Grinding or Tube Mill), 164 Dearborn, Chicago, Ill.
Kaestner & Hecht Co. (Inc.) (Portable), 440 S Jefferson, Chicago, Ill.
Kent Machine Works, 246 Plymouth, Brooklyn, N. Y.
Kent Mill Co., 170 B'way New York
**KOVEN, L. O. & BRO., 50 Cliff, New** York (See adv. index, end of book)
Lane, G. W. & C. A. ("Lane Giant"), Exeter, N. H.
Lehigh Car Wheel & Axle Works ("Fuller," for Cement, Ore, Rock, etc.), Catasauqua, Pa.
Mead & Co., Detroit, Mich.
Merralls Mill Co. ("Improved Muller"), 140 1st. San Francisco, Cal.
Miller, L. J. (Bone, Grain, Salt, Oil Cake, etc.), Cincinnati, O.
Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
Newell Mfg. Co., 149 B'way, New York
Nordyke & Marmon Co. (Roller & Buhr Stone), Indianapolis, Ind.
Noyes Mfg. Co., Buffalo, N. Y.

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**FOR ALL SORTS OF DRY GRINDABLE MATERIALS (Animal, Vegetable and Mineral).**

Products from 2 x 2 mesh to 200 x 200 mesh and finer. Disintegrated and shredded products of all kinds.

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are a specialty with us. The finest made. Dustless when in operation. Do away with sieving entirely.

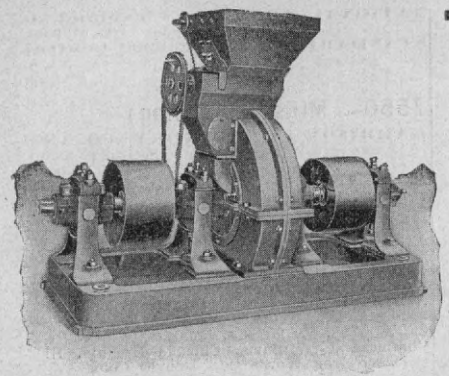
The **STROUD MILLS** use much less power and do a better quality of work, and have a larger capacity per H. P. used, and therefore grind for less money per ton, than any other mills.

Write for Catalogue, and give us details of your requirements, stating material, output and mesh of finished product desired, etc., so that we can quote.

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Will grind many materials better, quicker with less heating and take less power than any other mill on the market.

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Shafting, Pulleys, Hangers, Gears, Friction Clutches, Etc.


Pennsylvania Crusher Co., Stephen Girard bldg, Phila., Pa.
Prosser, Thos. & Son ("Krupp"), 15 Gold, New York
Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.
Ross, Chas. & Son Co. (French Buhr), 148 Classon av, Brooklyn, N. Y.
Salem Iron Works (French Buhr), Winston Salem, N. C.
Schultz-O'Neill Co., Minneapolis, Minn.
Smidth, F. L., & Co. (Cement), 50 Church, New York
Smith, Theodore & Sons Co., Jersey City, N. J.
**SPROUT, WALDRON & CO.** (Paint, Cement, Casein, Phosphate, Fuller's Earth, Cottonseed Oil Cake, etc.), Muncy, Pa. (See adv. index, end of book)
Starr, B. F. Co. (For Flour & Corn Mills), 455 North, Baltimore, Md.
Steadman Foundry & Machine Works, Aurora, Ind.
Straub Machinery Co., Cincinnati, O.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Sturtevant Mill Co. (Cement, Lime, Paint, etc.), Dorchester, Boston, Mass.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Walker & Elliott (Fertilizer, Cement, Phosphate, etc.), Wilmington, Del.
Waterville Foundry & Mfg. Co. (Paint, etc., Hand & Power), Waterville, N. Y.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.
Wilson Bros. (Bone), Easton, Pa.

### 7527a—Mills (Hay Grinding)

(See Mills, Feed Grinding)

### 7528— Mills (Hollow)

(See also Mills, Adjustable Hollow)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co. (With Inserted Blades, etc.), Providence, R. I.
Geometric Tool Co., New Haven, Conn.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO. (Adjustable** Solid), Cleveland, O. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Rogers, Jno. M. Works, Gloucester, N. J.
**STANDARD TOOL CO., 6900 Central,** Cleveland, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

### 7529— Mills (Huntington)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams, Chicago Heights, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

### 7530—Mills (Ink Grinding)

Black-Clawson Co., Hamilton, O.
Kent Machine Works, 39 Gold, Brooklyn, N. Y.
Poole, J. Morton Co., Wilmington, Del.
Ross, Chas. & Son, 148 Classon av, Brooklyn, N. Y.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

### 7531—Mills (Iron Cinder)

(See Mills, Water Cinder)

### 7532— Mills (Jar)

Abbe Engineering Co., 220 B'way, New York
Stokes, F. J. Machine Co., Phila., Pa.

### 7533—Mills (Kaffir Corn & Milo Maize)

Challenge Co. (In the Head), Batavia, Ill.
**STROUD, E. H. & CO. (In the Head),** 55 W Kinzie, Chicago, Ill. (See adv. index, end of book)

### 7534— Mills (Laboratory)

Abbe Engineering Co. ("Abbe"), 220 B'way, New York
Day, Jas. H. Co., Cincinnati, O.

### 7535— Mills (Linseed)

**ELMES, CHAS. F. ENGINEERING** Works, e Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

### 7536— Mills (Malt)

Aue, Ferdinand (Non-Explosive), 418 E 62d, New York
Kaestner & Hecht Co. ("Kaestner" Non-Explosive), 241 S Jefferson, Chicago, Ill.
Olson & Tilgner (All Iron Non-Explosive), 37 Ontario, Chicago, Ill.

### 7537— Mills (Mustard)

Kelso & Co., 557 W Quincy, Chicago, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

### 7538—Mills (Nut Grinding)

**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)


IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.


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## 7539– Mills (Oil Cake)

Bauer Bros. Co. ("Scientific" Grinding), Springfield, O.
**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buckeye Iron & Brass Works, Dayton, O.
Campbell, P. F., 55 Laurel, Phila., Pa.
Carey, Samuel, 17 State, New York
Cardwell Machine Co., Richmond, Va.
**ELMES, CHAS. F. ENGINEERING** Works, Fulton c N Sangamon, Chicago, Ill. (See adv. index, end of book)
Excel Mfg. Co., Pottersville, N. J.
McLauthlin, Geo. T. Co., Boston, Mass.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
**SPROUT, WALDRON & CO. ("Monarch"** Attrition & French Burr), Muncy, Pa. (See adv. index, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

## 7540–Mills (Ore Sampling)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

## Mills (Paint Grinding)

(See Paint Grinding & Mixing Machinery)

## Mills (Pebble Tube)

(See Mills, Ball & Pebble)

## 7541–Mills (Plate Rolling)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

ROLLING MILLS
Rolling Mill Machinery
CHILLED and SAND ROLLS
PRESSES--PUNCHES--SHEARS
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
National Roll & Foundry Co., Avonmore, Pa.
United Engineering & Foundry Co., Pittsburg, Pa.

## 7542– Mills (Prospecting)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Union Iron Works Co., San Francisco, Cal.

## 7543– Mills (Pug)

American Clay Machinery Co., Bucyrus, O.
Anderson Foundry & Machine Works, Anderson, Ind.
Arnold-Creager Co., New London, O.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
Bonnot Co., Canton, O.
Brewer, H. & Co., Tecumseh, Mich.
Chambers Bros. Co., 52d, bel Lancaster av, Phila., Pa.
**CROSSLEY MACHINE CO. (Sagger** Presses), State & Monmouth, Trenton, N. J. (See adv. index, end of book)
Elspass Engineering & Mfg. Co., Denver, Colo.
Freese, E. M. & Co., Galion, O.
Means Engineering & Foundry Co., Toronto, O.
Phillips & McLaren, Pittsburg, Pa.
Potts, C. & A. Co., Indianapolis, Ind.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Scott-Madden Iron Works Co., St. Louis, Mo.
Steele, J. C. & Son, Statesville, N. C.
Stevenson Co., Wellsville, O.
**THROPP'S, JOHN E. & SONS CO.** White Ware & Sagger), ft of Lewis, Trenton, N. J. (See adv. index, end of book)
United Iron Works Co., Springfield, Mo.
Wallace Mfg. Co., Frankfort, Ind.
Wellington Machine Co., Wellington, O.

## 7544– Mills (Quartz)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Beer, S. Gold Mill & Extraction Co. ("Beer's" Roller), Sacramento, Cal.
**BRADLEY PULVERIZER CO. (The** "Griffin"), 92 State, Boston, Mass.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Elspass Engineering & Mining Machinery Co. ("Elspass" Roller), Denver, Colo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Harron, Rickard & McCone (Inc.), San Francisco, Cal.**
Hendy, Joshua Iron Works ("Graupner", Central Feed Centrifugal Roller), San Francisco, Cal.
Kent Mill Co., 170 B'way, New York
Krogh Mfg. Co., San Francisco, Cal.
**Krom Machine Works** (Rolling Toggle & 4-Life Crushers), 170 B'way, New York
**Lane Slow Speed Chilian Mill Co., Los Angeles, Cal.**
Modern Mining Machinery Co. ("Little Giant"), Portland, Ore.
**Oakland Stamp Mill ("California" Rapid Stamp), Oakland, Cal.**
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**Raymond Bros. Impact Pulverizer Co., 1500 W Harrison, Chicago, Ill.**
Taylor Bros., Grass Valley, Cal.

## 7545– Mills (Rice)

**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
**SPROUT, WALDRON & CO. (Polishers,** Shelling Stone, Octagon Reels, Polishing Brushes, Trumbles, Separators, Chaff Grinders), Muncy, Pa. (See adv. index, end of book)
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7546–Mills (Roller Grinding)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Great Western Mfg. Co. (Also Roller Feed), Leavenworth, Kan.
Nordyke & Marmon Co. (Double Two Pair, High Four Roller & Three Pair, High Six Roller, etc.), Indianapolis, Ind.
**SPROUT, WALDRON & CO. (Double Roller,** Two-Pair & Three-Pair High, All Sizes), Muncy, Pa. (See adv. index, end of book)
Straub Machinery Co. (Corn & Wheat), Cincinnati, O.

## 7547– Mills (Rosin)

Barnett, Oscar Foundry Co. (Automatic), Newark, N. J.
**BROWN, A. & F. CO. ("Cogswell"),** 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Sly, W. W. Mfg. Co., Cleveland, O.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## 7548–Mills (Rubber Scrap)

**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)

## Mills (Rumbling)

(See Barrels, Tumbling or Rumbling)

## 7549– Mills (Shell End)

Becker Milling Machine Co., Hyde Park, Mass.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central,** Cleveland, O. (See adv. index & branch offices, end of book)

## 7550– Mills (Slabbing)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)

## 7551– Mills (Stamp)

**ALLIS-CHALMERS CO. (Steam, Gravity & Atmospheric), Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Arizona & Sonora Mfg. Co., Nogales, Ariz.
Ashland Iron Works, Ashland, Oregon
Caird, Chas. S., Helena, Mont.
Chalmers & Williams, Chicago Heights, Ill.
Colorado Iron Works Co., Denver Colo.
Davis, F. M., Iron Works Co., Denver, Colo.
Denver Engineering Works, Denver, Colo.
**FAIRBANKS, MORSE & CO. ("Nissen"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Globe Iron Works (Inc.), Stockton, Cal.
Hallidie Co., Spokane, Wash.
Hammond Mfg. Co., Portland, Ore.
Harrison Machine Works, Los Angeles, Cal.
Hendy, Joshua Iron Works, San Francisco, Cal.
Lombard Iron Works & Supply Co., Augusta, Ga.
McFarlane & Co. Mfg. Co., Denver, Colo.
Mecklenburg Iron Works, Charlotte, N. C.
Merralls Mill Co., San Francisco, Cal.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.
Montgomery, J. H. Mach. Co., Denver, Colo.
National Iron Works, Spokane, Wash.
Nordberg Mfg. Co., Milwaukee, Wis.
**Oakland Stamp Mill Co. ("California"), Oakland, Cal.**
Power & Mining Mach'y. Co., Cudahy, Wis.
Portage Lake Foundry & Machinery Co., Hancock, Mich.
**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Rapid Economy Stamp Co. ("Richard's"), San Francisco, Cal.
**Snyder, Fredk. T. & Co., 324 Dearborn, Chicago, Ill.**
Stearns-Roger Mfg. Co., Denver, Colo.
Vulcan Iron Works, San Francisco, Cal.
Traylor Engineering Co., Allentown, Pa.
Trent Engineering & Machinery Co., Salt Lake City, Utah
Union Iron Works Co., San Francisco, Cal.
Union Iron Works, Spokane, Wash.
Vulcan Iron Works, 604 Mission, San Francisco, Cal.
Wellman-Seaver-Morgan Co., Cleveland, O.
Willamette Iron & Steel Works, Portland, Ore.

## 7552–Mills (Stave Tumbling)

**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## Mills (Tube)

(See Mills, Ball & Pebble)

## 7553– Mills (Tumbling)

(See also Barrels, Tumbling & Rumbling)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cleveland Nickel Works ("Superior," Steel Exhaust), Cleveland, O.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Sly, W. W. Mfg. Co. (Exhaust Steel), Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 7554–Mills (Water Cinder)

**CENTRAL IRON WORKS (For Saving** Iron & Coke from Cupola Dump), Quincy, Ill. (See adv. index, end of book)
Cleveland Nickel Works ("Superior"), Cleveland, O.
Eastern Machinery Co. ("Hill"), New Haven, Conn.
Sly, W. W. Mfg. Co., Cleveland, O.

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**IMPROVED WATER CINDER MILL**—Guaranteed to save 95 per cent. of the iron from the cupola cinders and gangway cleanings, and 80 per cent. of the coke.

**COMBINATION BRASS WATER CINDER MILL and CASTING TUMBLER** Will reclaim all brass from cinder, ashes, skimmings, etc., that is practical to recover and will clean brass castings satisfactorily.

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**SAND MIXER and COMPOUNDER**—For foundry work.

**STEEL CASE DUST ARRESTER**—Will arrest all dust from tumbling mills, sand blast emery or polishing wheels, so that air can be discharged back into room absolutely purified.

**CORE OVENS**—Latest improved bureau and core car type adapted to all classes and sizes of cores.

**INDUSTRIAL TRACK SYSTEM**—Core Cars, Casting Cars, Truck Ladles, Turn Tables, etc.

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**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

### 7555—Mills (Water Polishing)

**CENTRAL IRON WORKS, Quincy, Ill. (See** adv. index, end of book)
Cleveland Nickel Works ("Superior"), Cleveland, O.
Sly, W. W. Mfg. Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

### Mills (White Lead)

(See White Lead Machinery)

### 7556—Mills (Wire Flattening)

Blake & Johnson Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

### 7556a— Mine Supplies

(See Firms in Mill & Factory Supplies, with the word Mine following name)

### 7557—Mine Supplies (Electric)

Commercial Electric Supply Co., St. Louis, Mo.
Cooke-Wilson Electric Supply Co., Pittsburg, Pa.
Doubleday-Hill Electric Co., Pittsburg, Pa. Pa.
Electric Railway Equipment Co., Cincinnati, O.
Gee Electric Const. Co., Wheeling, W. Va.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Lawrence, F. D. Electric Co., Cincinnati, O.
Ohio Brass Co., Mansfield, O.
Sackett Mine Supply Co., Columbus, O.
Union Electric Co., Pittsburg, Pa.
Wesco Supply Co., St. Louis, Mo.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

### 7558—Mine Timbers (Steel)

Carnegie Steel Co., Pittsburg, Pa.

### 7558a— Mineral Black

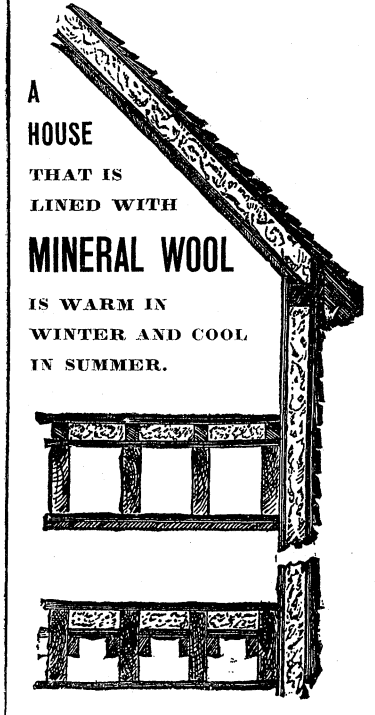
**SCHULE, F. H. CO., 114 Liberty, New** York. (See adv. index, end of book)

### 7559— Mineral-Colza

Union Petroleum Co. ("300", For Steamer & Railroads), 135 S 2d, Phila., Pa.
Waverly Oil Works Co. ("300", For Steams & Railroads), Pittsburg, Pa.

### 7560—Mineral Wool Mfrs.

American Insulating Material Mfg. Co., Alexandria, Ind.
Banner Rock Products Co., Alexandria, Ind.
Columbia Mineral Wool Co., 112 Chicago, Ill. Works, So. Milwaukee, Wis.
Hoosier Rock Wool Co. ("New Process"), Alexandra, Ind.
**JOHNS, H. W.-MANVILLE CO.** ("J-M"), 100 William, New York. (See adv. index & branch offices, end of book)
Union Fibre Co., Winona, Minn.
**UNITED STATES MINERAL WOOL Co., 140 Cedar, New York.** (See adv. index, end of book)

A HOUSE THAT IS LINED WITH MINERAL WOOL IS WARM IN WINTER AND COOL IN SUMMER.

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Affords the Best Protection Against Heat and Cold

CHEAP AND EASILY APPLIED

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## U. S. MINERAL WOOL COMPANY

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## 7561—Miners' Needles & Scrapers

Fulton Tool Works ("Fulton"), Canal Fulton, O.
Hardscog, Martin Co., N S, Pittsburg, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Co., Pittsburg. Pa.
Klein-Logan Co., Pittsburg, Pa.
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.
**What Cheer Tool Co., What Cheer, Ia.**

## 7562— Miners' Wick

Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.

## 7563—Mirror Frames (Brass)

Edwardsville Brass Co., Edwardsville, Ill.

## 7564— Mirrors (Advertising)

Bache, Semon & Co., West & Hubert, New York
National Sheet Metal Co. (Hand, Pocket, etc.), Peru, Ill.

## 7565—Mirrors (Bath Room)

Boston Mirror Co. (Frameless, etc.), Boston. Mass.
Church, C. F. Mfg. Co. ("Snow-White"), Holyoke, Mass.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Parker, Chas. Co., Meriden, Conn.

## 7566— Mirror (Lamp)

**Bausch & Lomb Optical Co., Rochester, N. Y.**

## 7567— Mirrors (Mangin)

**Bausch & Lomb Optical Co., Rochester, N. Y.**
**RODEFER GLASS CO., Bellaire, O.**
(See adv. index & branch offices, end of book)

## 7568—Mirrors (Plate Glass)

Allegan Mirror Plate Co., Allegan, Mich.
American Mirror Co., Milwaukee, Wis.
Anderson, Geo. H. & Co., 1458 W Kinzie, Chicago, Ill.
Bache, Semon & Co., West & Hubert, New York
Boston Mirror Co., Boston, Mass.
Central Door & Lumber Co., Portland, Ore.
Crane Glass & Mfg. Co., 206 St. Clair av, N. E., Cleveland, O.
Detroit Mirror Works, Detroit, Mich.
Donnelly, J. R. Co., 54 Classon av, Brooklyn,
Falconer Mirror Co., Falconer, N. Y. N. Y.
Galloway Glass Co., 406 N Lincoln, Chicago.
Gem Mirror & Glass Co., Youngsville, Pa. Ill.
Hart Mirror Plate Co., Grand Rapids, Mich.
Haskins Glass Co., Rochester, N. Y.
Hires Turner Glass Co., 230 S 30th, Phila., Pa.
Jackson Glass Works, Jackson, Mich.
Louisville Ornamental Glass Co., Louisville, Ky.
National Mirror Works (All Kinds), Rockford, Ill.
Penn-American Plate Glass Co., Pittsburg, Pa.
Pittsburg Plate Glass Co., Pittsburg, Pa.
Popper, Leo & Sons, 7 Sullivan, New Yokr
St. Louis Mirror Co., St. Louis, Mo.
Schrenk & Co. (Inc.), Hoboken, N. J.
Tyler & Hippach, 366 W Ohio, Chicago, Ill.
Von Gerichten Art Glass Co., Columbus, O.
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.

## 7569—Mirrors (Searchlight)

Bausch & Lomb Optical Co., Rochester, N. Y.

## 7570— Mirrors (Shock)

Allison & Doughty, 24 Downing, New York
Bache, Semon & Co., West & Hubert, New York

## 7571— Mitre Scales

Reeves Mfg. Co., Milford, Conn.

## 7571a—Mitres (Eave Trough)

**BURTON, W. J. CO., 161 W Congress, Detroit, Mich.** (See adv. index, end of book)

## 7572— Mixers (Air)

**McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich.** (See adv. index, end of book)

## 7573— Mixers (Bread)

Atlantic Stamping Co., Rochester, N. Y.
Central Stamping Co., 174 Fulton, New York
Gem Mfg. Co. ("Knead-Pull"), Chelsea, Mass.
Landers, Frary & Clark ("Universal"), New Britain, Conn.
Manning, Bowman & Co., Meriden, Conn.
Pritchard Stamping Co., Rochester, N. Y.
**SMITH & HEMENWAY CO. ("Polar Star," for Family Use), 150 Chambers, New York.** (See adv. index, end of book)
Vogel, Wm. & Bros. ("Chautauqua"), Brooklyn, N. Y.

## 7574— Mixers (Clay)

Anderson Foundry & Machine Works, Anderson, Ind.
Chambers Bros. Co., 52d, bel Lancaster av. Phila., Pa.
Fernholz Brick Machinery Co., St. Louis, Mo.
**MARION FOUNDRY, MACHINE & Supply Co.** ("Rust"), Marion. Ind. (See adv. index, end of book)
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Scott-Madden Iron Works Co., St. Louis, Mo.

## 7574a—Mixers (Core Sand)

**CENTRAL IRON WORKS, Quincy, Ill.** (See adv. index, end of book)

## 7575— Mixers (Fertilizer)

Atlanta Utility Works (Pan Mixers), East Point, Ga.
Day, J. H. Co., Cincinnati, O.
Dempwolf, C. H. & Co., York, Pa.
Hale Mixer Co. ("Hale." for Fertilizer & Acid Phosphates), Nashville, Tenn.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Pratt Engineering & Machine Co., Atlanta, Ga.
**RANSOME CONCRETE MACHINERY Co.,** Dunellen, N. J. (See adv. index & branch offices, end of book)
Sackett, August J., Baltimore, Md.
**SMITH, T. L. CO., THE (For Mixing** All Kinds of Artificial Fertilizers), Majestic bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Stedman's Foundry & Machine Works, Aurora, Ind.
Walker & Elliott, Wilmington, Del.

## 7576—Mixers (Flour & Baking Powder)

Burns, Jabez & Sons, 600 W 43d, New York
Dya, J. H. Co., Cincinnati, O.
Prims Machinery Co., Battle Creek, Mich.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

## 7577— Mixers (Gas)

Campbell, J. B. Brass Works, Erie, Pa.
Cullen-Atkinson Co. ("Monitor"), Hartford, Conn.
Detroit Brass Works (Natural Gas), Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Hays Mfg. Co., Erie, Pa.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)

## 7578—Mixers (Glass Batch)

**SMITH, T. L. CO., THE ("Smith"),** Majestic bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 7578a— Mixers (Grout)

**RANSOME CONCRETE MACHINERY Co.** ("Caniff" Pneumatic), Dunellen, N. J. (See adv. index & branch offices, end of book)

## 7579— Mixers (Hot Metal)

Pennsylvania Engineering Works, New Castle, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Variety Iron & Steel Works Co. (For Steel Mfrs.), Cleveland, O.

## 7580— Mixers (Liquor)

New York Stamping Co., N 11th & Berry, Brooklyn, N. Y.
Sweeney, W. H. Mfg. Co., 30 Main, Brooklyn, N. Y.

## 7581—Mixers (Lubricating Compounds)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

## 7582— Mixers (Mortar)

(See also Concrete Mixers)

Dewitt Mixer Co., 347 E 144th, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**MONIGHAN MACHINE CO. ("Monighan"),** 2034 Carroll av, Chicago, Ill. (See adv. index, end of book)
Municipal Engineering & Contracting Co., Chicago, Ill.
**SMITH, T. L. CO., THE, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Teal, Chas. A. (For Ready Mixed Mortar, etc.), 1361 Ridge av. Phila., Pa.
Walker & Elliott, Wilmington, Del.

## Mixers (Paint, Power)

(See Paint Grinding & Mixing Machinery)

## 7583— Mixers (Plaster)

(See also Mills, Grinding)

Day, J. H. Co., Cincinnati, O.
Dunning, W. D., Syracuse, N. Y.
Ehrsam, J. B. & Sons Mfg. Co. ("Enterprise") Enterprise, Kan.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
**SMITH, T. L. CO., THE, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 7584— Mixers (Rubber)

Biggs Boiler Works, Akron, O.

## Mixers (Sand)

(See Sand Mixing Machines)

## 7585—Mixers (Sausage Meat)

Murray Iron Works Co. ("New Murray" & "Zimmerman"), Burlington, Iowa
Superior Tool & Supply Co. ("Superior" Double) 500 E. Front, Cincinnati, O.

## 7586—Mixers (White Lead)

Poole Engineering & Machine Co., Woodbury st, Baltimore, Md.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

## 7587—Modelers & Sculptors (Architectural)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Bailey Co. (Wood), 224 21st, Detroit, Mich.
Bell & Mauch, 28 St. Clair, Chicago, Ill.
Borgia Marble Works, 1133 B'way, New York
Buchner, A. & Co., 220 N 2d, St. Louis, Mo.
Cairns, Hugh, 30 Ipswich, Boston, Mass.
Campbell & Horrigan Marble & Monumental Works, 4718 Penn. av, Pittsburg, Pa.
Church Art Work Co., 151 E 18th, New York
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Dittgen & Rapp, 3927 Spencer av, Norwood, O.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Dux, Jos., 631 W Jackson blvd, Chicago, Ill.
Ellin, Kitson & Co., 25th & N River, New York
Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.
Entress, Albert, 597 Main, Hartford, Conn.
Evans, John & Co., Boston, Mass.
Finke Mfg. Co., Newark, N. J.
Fischer & Jirouch, Cleveland, O.
Forman Bros., 645 Gates av, Brooklyn, N. Y.
Haigermoser, Jos., 250 Randolph, Detroit, Mich.
Halstrick, M., 636 South av, Rochester, N. Y.
Harbaugh, A. J. Marble & Granite Works, 4729 Butler, Pittsburg, Pa.
Harnisch, Ad., Syracuse, N. Y.
Koppe & Steinichen, Atlanta, Ga.
Lamb, J. & R. (Inc.), 25 6th av, New York
Liebold, O., 83 Randolph, Detroit, Mich.
Liesum, Geo. & Co., 228 E 24th, New York
Lombard & Ludwig (Inc.), Washington, D. C.
Maene, Edw., 309 S Lawrence, Phila., Pa.
Milwaukee Ornamental Carving Co., Milwaukee, Wis.
Nahodyl, Frank, 403 E 68th, New York
Nygard, Alfred F., 68 Cass, Detroit, Mich.
Ornamental Plaster Co., Cincinnati, O.

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Rackle, Geo. & Son Co. (Artificial Stone), Cleveland, O.
Richard, Louis, 110 West End av, New York
Schellentrager, Louis F., 1540 W 3d Cleveland,
Schneider, F. H. Syracuse, N. Y. Ohio
**SEIFERT, FRANK A. PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)
Shaw & Co., 2020 N 10th, Phila, Pa.
Smith, Jos. & Co., 428 E 23d, New York
Tiffany Studios, 347 Madison av, New York
Tognarelli & Voight, 2310 Chestnut, Phila., Pa.
Van Malderen, F., Jurnonville & Ann, Pittsburg, Pa.
Walter, G. E. Co., 157 E 44th, New York

## 7588—Models, Trade Marks & Monograms (Wood)

Spanger Bros., Newark, N. J.

## 7589—Models & Experimental Work

(See also Pattern & Model Makers)

Acorn Brass Mfg. Co., Aurora, Ill.
Allen, Geo. R., 500 N 13th, Phila., Pa.
Armor Clad Mfg. Co., Canton, Ohio
Baillard, E. V., Fox bldg, New York
Baird Machine Co., Oakville, Conn.
Baltimore Pattern & Model Works (Metal & Wood), 218 N Holliday, Baltimore, Md.
Berggren & Pearson Machine Co., 221 Canal, New York
Boucher, H. E. Mfg. Co., Front & Fulton, New York
Boyce, Myron J., 584 Hudson, New York
Breul, Fred G., Bridgeport, Conn.
Chadborn & Bailey, Kansas City, Kan.
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Currie Machine Co., 45 Fort E, Detroit, Mich.
Eastern Machine & Stamping Co., Providence, R. I.
Electrical Appliances Mfg. Co., Waterbury, Conn.
Fanning, J. P. (Pattern Maker), 678 Jefferson av, Brooklyn, N. Y.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Goodwin & Kintz Co., Winsted, Conn.
Griswold, Geo. M. Machine Co., New Haven,
Hart, Fred'k, Poughkeepsie, N. Y. Conn.
Hervey Machine Works, Kansas City, Mo.
Hoeft & Co., 141 W Michigan, Chicago, Ill.
Hurd & Haggin, 316 Hudson, New York
Ideal Machine Works, 257 39th, Brooklyn, N. Y.
Lang, J. Electric Co., 423 N Lincoln, Chicago, Ill.
Manufacturers & Inventors Electric Co., 29 Gold, New York
Manahan, J. Archibald, 1907 Park av, New
Marion & Casler Co., Canastota, N. Y. York
Metal Novelty Works, 85 W Lake, Chicago, Ill.
Moore & Co., 305 W Indiana, Chicago, Ill.
National Stamping & Electric Works, 410 Clinton, Chicago, Ill.
**NESTOR MFG. CO. (Inc.) 40 W. 13th,** New York. (See adv. index, end of book)
New York Model & Experimental Works, 442 E 166th, New York
Reeves Mfg. Co., Milford, Conn.
Reliance Machine & Tool Works, St. Louis, Mo
Risser Mfg. Co., 1033 W Lake, Chicago, Ill.
S. & I. Co., Springfield, Mass.
Spindler & Deringer, Jersey City, N. J.
Taylor & Fenn Co., Hartford, Conn.
Tolhurst Machine Works, Troy, N. Y.
United Electric Apparatus Co., 200 Summer, Boston, Mass.

## 7590—Moisteners (Envelope)

McClellan Mfg. Co., Elmira, N. Y.
Maltby, Geo. B. Co. ("Sanitary" Moistener & Sealer), Cleveland, O.
Peerless Moistener Co., 824 Claremont av, Chicago, Ill.
Thexton Electric Envelope Sealer Co., 225 Peoria, Chicago, Ill.

## Moistening Apparatus

(See Textile Machinery)

## 7591—Molasses (Foundry)

**SPRINGFIELD FACING CO., Spring**field, Mass. (See adv. index, end of book)

## 7592—Molds (Babbitt Metal & Solder)

Columbia Machine Works & Malleable Iron Co. (Babbitting Molds), 269 Chestnut, Brooklyn, N. Y.
Fanning, J. P., 678 Jefferson av, Brooklyn, N. Y.

## 7593— Molds (Bakers')

Maag, August Co. (Easter Rabbit Cakes, etc.), Baltimore, Md.

## 7594—Molds (Bar Lead, Buck Shot & Bullet)

Fanning, J. P., 678 Jefferson av, Brooklyn, N. Y.

## 7595— Molds (Brick)

Arnold-Creager Co. (Hand & Machine), New London, O.
Crowell, James B. & Son, Walkill, N. Y.
Davis-Price Foundry & Machine Co., New Cumberland, W. Va.
Dederick's, P. K. Sons, Albany, N. Y.
Hunter Saw & Machine Co., Pittsburg, Pa.
Louisville Machine Co., Louisville, Ohio
Mentz, Geo. B. Co., Walkill, N. Y.
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Phenix Mfg. Co., Milwaukee, Wis.
Phillips & McLaren Co., Pittsburg, Pa.
Portsmouth Machine & Casting Co., Portsmouth, O.
Pott, C. & A. & Co., Indianapolis, Ind.
Raymond, C. W. & Co., Dayton, O.
Scott-Madden Iron Works Co., St. Louis, Mo.
Wiles, W. & W. H. Co., Grassy Point, N. Y.

## 7595a— Molds (Butter)

Chapman & Sargent, Perrysburg, O.
Creamery Package Mfg. Co., 61 W Kinzie, Chicago, Ill.
Freeman Mfg. Co., Kalkaska, Mich.
Hall Bros., West Acton, Mass.
Ludington Woodenware Co., Ludington, Mich.
Richardi & Bechtold, Bellaire, Mich.
Rowe, Henry Mfg. Co., Newaygo, Mich.
Turner, Robert E., Lebanon, Conn.
Vermont Farm Machine Co., Bellows Falls, Vt.

## 7596— Molds (Button)

Hill Bros. & Co., Williamsburg, Mass.
Rhodes, Wm. H., Cold Brook, N. Y.

## 7597— Molds (Capsule)

Kutz & Gift, Allentown, Pa.

## Molds (Cement Post)

(See Cement Post Machinery)

## 7598— Molds (Concrete)

Architectural Mold Co. (For Concrete Columns), Detroit, Mich.
Ball & Brookshire ("Hoosier," for Cement Burial Vaults), Thornton, Ind.
Cement Tile Mach'y Co. ("Easy Tile"), Waterloo, Ia.
Groh Bros. (Sewer Pipe & Drain Tile), Kendallville, Ind.
Hoosier Mfg. Co. ("Hoosier," Porch Column), Goshen, Ind.
**MARSH CO. ("Miracle," for Brick,** Block, Sewer Pipe, Drain Tile, Burial Vault, etc.), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ohio Post Mold Co. (For Concrete Fence Posts), Toledo, O.
Post, D. A. Mold Co. ("D. & A.," for Cement Fence Parts), Three Rivers, Mich.
Raber & Lang Mfg. Co. ("Crescent" for Pipe & Tile), Kendallville, Ind.
Simpson Cement Mold Co. ("Simpson," for Concrete Porches, etc.), Columbus, O.

## 7598a— Molds (Copper)

(See Molds, Gold & Silver Bullion)

## 7599—Molds (Cylinder)

Appleton Wire Works, Appleton, Wis.
Beloit Iron Works, Beloit, Wis.
Bigelow, Cheney Wire Works, Springfield, Mass.
Black-Clawson Co., Hamilton, O.
Clark, H. C. & Son Machine Co., Lee, Mass.
Dilts Machine Works, Fulton, N. Y.
Dix Foundry & Machine Co., Glens Falls, N. Y.
Eastwood Wire Mfg. Co., Belleville, N. J.
Federal Wire Cloth Co., Harrison, N. J.
Gleeson, Thos. E., East Newark, N. J.
Improved Paper Machinery Co., Nashua, N. H.
Smith & Winchester Mfg. Co., South Windham, Conn.

## 7600— Molds (Gagger)

Wadsworth Core Machine & Equipment Co. (For Foundry Use), Akron, O.


**NESTOR MFG. CO.**
(INCORPORATED)

EXPERIMENTAL WORK
DRAUGHTING
METAL PATTERNS AND LIGHT MANUFACTURING

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## 7601—Molds (Glass House)

American Mold Co., 235 Cherry, Phila., Pa.
Ayars Machine Co., Salem, N. J.
Centre Foundry & Machine Co., Wheeling, W. Va.
Donahue, Thos. J., Baltimore, Md.
Evans Mold & Machine Co., Uniontown, Pa.
Indiana Mould Works, Muncie, Ind.
Koeppen Mould Works, Marion, Ind.
McKee, W. S., Pittsburg, Pa.
Munice Mould Works, Munice, Ind.
Novelty Mold Works (S. Hipkins, Prop.), Martins Ferry, O.
Parsons, W. P. Mfg. Co., Albany, Ind.
Saltsburg Mold Works, Saltsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va
Yockel, Chas. & Sons, 1220 N Lawrence, Phila., Pa.
Zanesville Mold Co., Zanesville, O.

## 7602—Molds (Gold & Silver Bullion)

**POWER & MINING MACHINERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 7603— Molds (Ingot)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co., Belleville, N. J.
Hyde Park Foundry & Machine Co., Hyde Park, Pa.
Interstate Foundry Co., Cleveland, O.
McCormack, J. S. Co., Pittsburg, Pa.
McWilliams, Thomas, Providence, R. I.
Marshall Foundry Co. (Cast Iron), Pittsburg, Pa.
National Roll & Foundry Co., Avonmore, Pa.
Penn Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., Phila., Pa.
Sharon Foundry Co. (Steel), Wheatland, Pa.
Pittsburg Mfg. Co., Pittsburg, Pa.
Thomas, Jas. E. Co. (Steel), Newark, O.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (Steel), Farmers Bank bldg, Pittsburg, Pa.
West, Thos. D. Foundry Co. (Steel), Sharpsville, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va.
Youngstown Foundry & Machine Co., Youngstown, Ohio

## 7604— Molds (Jelly)

Hero Mfg. Co. (Aluminum), Gaul & Adams, Phila., Pa.

## 7605—Molds (Lead Casting)

Eastwood Wire Mfg. Co., Belleville, N. J.
Power & Mining Machinery Co., Cudahy, Wis.

## 7606—Molds (Lead Flange)

Mueller, H. Mfg. Co., Decatur, Ill.
Williams Foundry & Machine Co., Akron, O.

## 7607—Molds (Lead Hammer)

Field, Chas. H., Providence, R. I.

## 7609— Molds (Rubber)

Adamson Machine Co., Akron, O.
Akron Foundry Co. (All Sizes & Kinds), Akron, Ohio
Arnold, W. E., Malden, Mass.
Baker Machine Co., Trenton, N. J.
Barbour Bros., Trenton, N. J.
Barbour-Stockwell Co., Cambridge, Mass.
Bay State Machine Co., Erie, Pa.
Birmingham Iron Foundry, Derby, Conn.
Clark, Edred W., Hartford, Conn.
**CROSSLEY MACHINE CO. (Tire Moulds),** State & Monmouth, Trenton, N. J. (See adv. index, end of book)
Eggers, Wm. J., 339 Classon av, Brooklyn, N. Y.
**ELMES, CHAS. F. ENGINEERING** Works, Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Empire Foundry Co., New Brunswick, N. J.
Goodyear Tire & Rubber Co., Akron, O.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Holmes Bros., 546 W Jackson blvd, Chicago, Ill.
Housatonic Machine & Tool Co., Bridgeport, Conn.
Logan, Edw. Machine Co., Trenton, N. J.
McFarland Foundry & Machine Co., Trenton, N. J.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index,
Thropp, Wm. R., Trenton, N. J. end of book)
Williams Foundry & Machine Co. (Also Dies), Akron, O.

## 7610—Molds (Rubber Tire)

Akron Rubber Mold & Machine Co., Akron, O.
Bay State Machine Co., Erie, Pa.
**ELMES, CHAS. F. ENGINEERING** Works., c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Erie Pump & Engine Co. ("Bay State"), Erie, Pa.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index,
Thropp, Wm. R., Trenton, N. J. end of book)

## 7611— Molds (Solder)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices end of book)
Central Foundry Co. (Bar, Strap, etc.; also Extension Valve), 90 West, New York
Haydenville Co., Haydenville, Mass.
Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Miller Iron Co., Providence, R. I.
Modern Iron Works (Half Round), Quincy, Ill.
Mott, J. L. Iron Works, 118 5th av. New York
Osborne, C. S. & Co., Harrison, N. J.
Sayre, L. A. & Co., Newark, N. J.
Wolverine Brass Works, Grand Rapids, Mich.

## 7612— Molds (Tack)

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Haydenville Co., Haydenville, Mass.
Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Knapp Mfg. Co., 22 Frankfort, New York
Mueller, H. Mfg. Co., Decatur, Ill.
Peck Bros. & Co., New Haven, Conn.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 7613—Molybdate of Ammonia

Mineral Products Mfg. Co., Wilmington, Del.

## 7614— Molybdate of Soda

Mineral Products Mfg. Co., Wilmington, Del.

## Molybdenum

(See Ferro-Molybdenum)

## 7615— Monnot Metals

Duplex Metals Co. (Bars, Rods, Sheets & Wire), Chester, Pa.

## 7616— Monograms

American Bronze Co., Berwyn, Pa.
Blackington, V. H. & Co., Attleboro Falls, Mass.
Chicago Art Metal Works, 67 Lake, Chicago, Ill.
Colgan, J. N. Co. (Automobile), Sudbury bldg, Boston, Mass.
Dunn, Thos. J. & Co. (Harness), 101 Chambers, New York
Enterprise Mfg. Co. (Harness), Akron, O.
Fine, Horace E. Co. (Brass), Trenton, N. J.
Greacen, Walter & Co. (Harness), Newark, N. J.
Grote, F. & Co. (Iron), 312 E. 23d, New York
Monogram Crest & Sign Co., 1779 B'way, New York
Newark Brass Plate Engraving Co., Newark,
Reynold & Zahn (Harness), Newark, N. J.
Schneider, Louis (Pocket Book), Newark, N. J.
Spanjer Bros. (Wood), Newark, N. J.

## Monuments & Statuary (Bronze)

(See Bronze Monuments & Statuary)

## 7617—Mop Sticks & Holders

**ARCADE MFG. CO. ("Gem," "Freeport," "Arcade," "Standard," Screw, "Trojan," "Favorite" & "Climax"),** Freeport, Ill. (See adv. index, end of book)
Bliss Mfg. Co., Bliss, N. Y.
Bregwoodkro Stamping & Mfg. Co., Lorain, O.
Ely, T. J., Mfg. Co. ("Dandy"), Girard, Pa.
Erie City Mfg. Co. ("Arrow"), Erie, Pa.
Grab, Victor M. & Co. ("Grab's Handy"), Ashland blk, Chicago, Ill.
Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York
Knapp, Geo. S. ("Knapp's" Holders), Bridgeport, Conn.
Mason Mfg. Co. ("Invisible," "Taylor," "Eureka"), Perkinsville, Vt.
Parks & Parks, Troy, N. Y.
Phillips, A. J. & Co. (Sticks Only), Fenton, Mich.
Stover Mfg. Co., Freeport, Ill.

## 7618—Mop & Brush Holder Combined

Stover Mfg. Co. ("Ideal"), Freeport, Ill.

## 7619— Mops

Atlanta Variety Works, Atlanta, Ga.
Auburn Brush & Mop Co., Auburn, Me.
Bay State Mop Co. (All Kinds), Woburn, Mass.
Cook, W. N., Grand Rapids, Mich.
Eagle Cooperage Works ("Rex" Dish Mops, etc.), Circleville, O.
Erie City Mfg. Co. ("Arrow," Self Wringing),
Erie Mop & Wringer Co., Erie, Pa. Erie, Pa.
Gould, L. L. & Co., Louisville, Ky.
Grab, Victor M. & Co. ("Handy"), Ashland blk, Chicago, Ill.
Hamblin & Russell Mfg. Co. ("Champion" Self Wringing), Worcester, Mass.
Hilker, E., 1368 Grand av, Chicago, Ill.
Hunter Brush Mfg. Co., Blanchester, O.
Huntington, H., Ladoga, Ind.
Imbaden, I. C. Mfg. Co. (Easy Wringing), Cleona, Pa.
Massasoit Mfg. Co., Fall River, Mass.
Meerse, J. Co., Cincinnati, O.
Ohio Mop Pail & Wringer Co., Oxford, O.
Olmsted & Tuttle Co., Chicopee, Mass.
Phillips, A. J. Co., Fenton, Mich.
Richards, Fred J., Springfield, Mass.
Stover Mfg. Co. ("Ideal" Spring, "Ideal" Screw, Lever Spring, etc.), Freeport, Ill.
Taylor Mfg. Co. ("Cinch"), Girard, Pa.
Toohey, M. J. Co., Fall River, Mass.
Victor Mop Mfg. Co., Erie, Pa.

## 7620— Mops (Cotton)

Bix Co. ("Bix"), 216 S 8th, St. Louis, Mo.
Blakely, Jno. & Son, 1089 Gtn. av, Phila., Pa.
Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
Elkin Mfg. Co., Elkin, N. C.
Estes Mills (Inc.) (Floor & Dish Mops), Fall River, Mass.
Massasoit Mfg. Co., Fall River, Mass
Naurath, J. P. & Co., 2 Lispenard, New York
Phillips, A. J. Co., Fenton, Mich.
Stover, Mfg. Co., Freeport, Ill.
Thomaston Mfg. Co. ("Yankee" Self Wringing Mops), Thomaston, N. Y.

## 7621— Mops (Roofing)

Barrett Mfg. Co., 17 Battery pl, New York

## 7622— Morphine

McKesson & Robbins, 91 Fulton, New York
Mallinckrodt Chemical Works, St. Louis, Mo.
Merck & Co., University pl & 8th, New York
New York Quinine & Chemical Works, 114 Liberty, New York
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.

## 7623—Mortar Color Mfrs.

Atlas Paint Co., Nashville, Tenn.
Baltimore Dry Paint Works, Baltimore, Md.
**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)
Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
Chattanooga Paint Co. ("Eclipse"), Chattanooga, Tenn.
Cleveland Iron Ore Paint Co., Cleveland, Ohio
Clinton Metallic Paint Co., Clinton, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Erwin, Henry, Bethlehem, Pa.
**FRENCH, SAML. H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Garry Iron & Steel Co., Niles, O.
**GROSCHE, BRUNO & CO., 13 Jones la.,** New York. (See adv. index, end of book)
Horn, A. C. Co., 8 Burling slip, New York
Jamestown Paint & Varnish Co., Jamestown, Pa.
Macneal, James B. & Co., Baltimore, Md.
Mepham, G. S. & Co., East St. Louis, Ill.
Parker, Preston & Co. (Inc.), Norwich, Conn.
Pecora Paint Co. (A. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R R, Phila., Pa.

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Pittsburg Iron Paint Co. ("Keystone"), N. S. Pittsburg, Pa.
Ricketson Mineral Paint Works ("Red Brick") Milwaukee, Wis.
Rossie Iron Ore Paint Co. (Calorific Red), Ogdensburg, N. Y.
Semple, Frank G., Bethlehem, Pa.
Toch Bros. (Est. 1848) ("Edinburgh"), 320 5th av, New York
Wells, Jas. M. Co., Ogdensburg, N. Y.
Wilhelm, A. Co., Reading, Pa.
Williams, C. K. & Co., Easton, Pa.

## 7623a—Mortar (Kaolin Fire)

**KREISCHER BRICK MFG. CO., 119** E 23d, New York; Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)

## 7624—Mortar (Patent Soapstone)

American Soapstone Finish Co., Chester Depot, Vt.

## 7625— Mortar (Prepared)

Higginson Mfg. Co. ("Higginson's," for Plastering & Finishing Walls), Newburgh, N. Y.

## 7626— Mortars (Crushing)

Power & Mining Machinery Co. (Wet or Dry), Cudahy, Wis.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 7627—Mortisers (Chain Saw)

**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

## 7628—Mortisers (Hollow Chisel)

Fay, J. A. & Egan Co. (Vertical), Cincinnati, O.

## 7629—Mosaic Cube Importers

Duche, T. M. & Sons, 554 Broome, New York
Jackson, C. D., ft E 105th & East River, New York
**BOCKMANN & SHEPARD, 1265-9** B'way, New York. (See adv. index, end of book)
Pisani Bros., Astoria (Boro. of Queens), N. Y.
Rossman, Robt., 149 W 24th, New York
Roussel, Albert C., 524 W 50th, New York
Tompkins-Kiel Marble Co., 505 5th av, New York
Toscani, John L. & Co., 930 E 178th, New York

## Mosaic Floors (Hardwood)

(See Wood Floors, Mosaic; also Floors, Parquet)

## 7630— Mosaics (Ceramic)

Alexander & Reid Co. (Circular), 359 W 26th, New York
American Mosaic Co., 97 Shelby, Detroit, Mich.
Art Mosaic Works, Zanesville, O.
Borgia Marble Works, 1133 B'way, New York
Bortoli Mosaic & Tile Co., Dallas, Texas
Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.
Bressler, E. A. Co., Detroit, Mich.
Brooklyn Vitrified Tile Works, 79 4th, Brooklyn, N. Y.
California Marble Mosaic Co., San Francisco, Cal.
Caretti, John & Co., 53 W Michigan av, Chicago, Ill.
Cascio, S., 797-803 Lexington, Brooklyn, N. Y.
Cassini Mosaic Tile Co., Cincinnati, O.
Currier, E. Bradley Co., 119 W 23d, New York
Davis Marble Co., 214 S. 24th, Phila., Pa.
Davis Marble Co., 302 Michigan av, Chicago, Ill.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Federal Tile Co., 131 W. 24th, New York
Hawes & Dodd, 24 Adams, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
Italian Mosaic & Marble Co., Buffalo, N. Y.
Lage, (Mrs.) Bernard H., 484 Greenwich, New York. Factory: Menlopark, N. J.
Lorenzen, Chas. F. & Co., 278 N. Ashland av, Chicago, Ill.
Marcus Bros. Co., Scimitar bldg, Memphis, Mion Bros., Atlanta, Ga. Tenn.
Pellarin & Co., 82 Greenwich av, New York
Rossman, Robt., 149 W 24th, New York
Sharpless & Watts Co., 1520 Sansom, Phila., Pa.
Tiffany Studios, 347 Madison av, New York
Toscani, Jno. L. & Co., 930 E 178th, New York
Traitel Bros. & Co., 44 E 19th, New York
Venetian Mosaic & Granitoid Co., St. Louis, Mo.
Weary & Beck, 1907 Michigan av, Chicago, Ill.

## 7631— Mosaics (Glass)

**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Church Art Work Co., 151 E 18th, New York
Doyle-Stoltzenberg Co., 51 Barclay, New York
Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Janes, Walter Co. (New Process), 138 W 42d, New York
McLaury, D. H. Marble Co., Walnut av nr 141st, New York
Norcross Co., 1264 Riverbed, Cleveland, O.
Tiffany Studios, 347 Madison av, New York
Toscani, J. A. & Co., 154 E 33d, New York

## 7632— Mosaics (Marble)

American Mosaic & Tile Co., Louisville, Ky.
Art Mosaic & Tile Co., Toledo, O.
**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Belfi Bros. & Co., 22 S 19th, Phila., Pa.
Borgia Marble Works, 1133 B'way, New York
Bowker, Torrey & Co., Boston, Mass.
Buchanan, Jas. M., 2047 Market, Phila., Pa.
Caretti, John & Co., 53 W Michigan av, Chicago, Ill.
Cascio, S., 797-803 Lexington av., Brooklyn, N. Y.
Cassini Mosaic & Tile Co., Cincinnati, O.
Church Art Work Co., 151 E 18th, New York
Corning, John Herbert, Washington, D. C.
Currier, E. Bradley Co., 119 W 23d, New York
Daly, Jas. C. & Co., 1626 Chestnut, Phila., Pa.
Daprato Statuary Co., 766 W Adams, Chicago, Ill.
Davia Bros., 151 W 24th, Chicago, Ill.
Davidson Bros. Marble Co., ft of Orleans, Chicago, Ill.
Davis, J. W., Newport News, Va.
Davis Marble Co., 302 Michigan av, Chicago Ill.
De Paoli Mosaic Association, Dorchester av & Dorr, Boston, Mass.
Des Moines Marble & Mantel Co., Des Moines, Iowa
Detrick, E. J. Co., 345 4th av, Pittsburg, Pa.
Doyle-Stoltzenberg Co., 51 Barclay, New York
Drake Marble & Tile Co., Minneapolis, Minn.
Essex Mosaic Tile Co., Newark, N. J.
Federal Tile Co., 131 W 24th, New York
Fisher, Robert C. Co., E 139th & Locust av, New York
Hall-Kline Co., 1927 Market, Phila., Pa.
Hawes & Dodd, 24 Adams, Chicago, Ill.
Hutchinson, Wm. Seely, Washington, D. C.
Illinois Mosaic Tile Co., 36th & Ashland av, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
Italian Mosaic & Marble Co., Buffalo, N. Y.
Iversen, J. C. Co., Milwaukee, Wis.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Keating, M. & Sons Co., 224 Wash'n, Chicago.
Lamb, J. & R. (Inc.), 25 6th av, New York Ill.
Lautz Co., Buffalo, N. Y.
Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.
McLaury Tile Co., 103 Park av, New York
Marcus Bros. Co., Memphis, Tenn.
Mart & Lawton, 1123 B'way, New York
Marthens, Chester N. Co., 701 W 53d, Chicago, Ill.
Mion Bros., Atlanta, Ga.
Mosaic Marble & Enamel Co., Buffalo, N. Y.
Motley, Peter, 750 S Broad, Phila., Pa.
National Mosaic Co., Washington, D. C.
National Mosaic Tile Co., 2101 S Kedzie av, Chicago, Ill.
New England Marble Mosaic Co-Operative Co., 147 Orleans, E. B., Boston, Mass.
Newark General Mosaic Co., Newark, N. J.
Norcross Co., 1264 Riverbed, Cleveland, O.
Northwestern Marble & Tile Co., Minneapolis, Minn.
Pellatin & Co., 82 Greenwich av, New York
Pelli, Alexander & Co., ft E 116th, New York
Peoria Stone & Marble Works, Peoria, Ill.
Pickel Marble & Granite Co., St. Louis, Mo.
Pittsburg Marble Mosaic Co., Pittsburg, Pa.
Rinaldi, L. L. & Co., 263 Atlantic av, Boston, Mass.
Rossman, Robert, 149 W 24th, New York
Salagona & Co., 640 Hudson, New York
**SEIFERT, FRANK A. PLASTIC RE-**lief Co., 2627 Dayton, St. Louis, Mo. (See adv. index, end of book)
Sharpless & Watts Co., 1520 Sansom, Phila., Pa.
Sherman-Flavin Marble Co., 2519 State, Chicago, Ill.
Shipway, Jno. H. & Bro., Locust av & E 136th, New York
Stearns & Waterman, 90 Canal, Boston, Mass.
Thorman, Jno. H. & Co., Baltimore, Md.
Tiffany Studios, 347 Madison av, New York
Toscani, Jno. L. & Co., 930 E 178th, New York
Traitel Bros. & Co., 44 E 19th, New York
Twin City Tiling Co., N. S., Pittsburg, Pa.
Union Tile Co., 61 Flatbush av, Brooklyn, N. Y.
Venetian Marble Mosaic Art Co., Detroit, Mich.
Venetian Mosaic & Granitoid Co., St. Louis, Mo.
Vulcanite Tile & Mosaic Co., 54 N 6th, Phila., Pa.
Wadsworth, Chester J., Cleveland, O.
Weary & Beck, 1907 Michigan av, Chicago, Ill.
Weller, Anton, Albany, N. Y.
White & Whitmore, 424 Asylum, Hartford, Conn.
Wilson Tile Co., Perry bldg, Phila., Pa.
Young, B. P. Co., Pittsburg, Pa.

## 7633—Mosaics (Roman & Venetian)

Art Mosaic & Tile Co., Toledo, O.
**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Bortoli Mosaic & Tile Co., Dallas, Texas
Cassini Mosaic & Tile Co., Cincinnati, O.
Currier, E. Bradley Co., 119 W 23d, New York
Fisher, Robert C. & Co., E 139th & Locust av, New York
Italian Marble Mosaic Co., 432 Spruce, Phila., Pa.
Italian Mosaic & Marble Co., Buffalo, N. Y.
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Marcus Bros. Co., Scimitar bldg, Memphis, Mion Bros., Atlanta, Ga. Tenn.
Mosaic Marble & Enamel Co., Buffalo, N. Y.
Pellarin & Co., 82 Greenwich av, New York
Sharpless & Watts Co., 1520 Sansom, Phila., Pa.
Tiffany Studios, 347 Madison av, New York
Toscani, J. A. & Co., 930 E 178th, New York
Traitel Bros. & Co., 44 E 19th, New York
Venetian Mosaic & Granitoid Co., St. Louis, Mo.
Vulcanite Tile & Mosaic Co., 54 N 6th, Phila., Pa.

## 7634—Mosquito Netting (Bronze & Copper)

**HUNGERFORD, U. T. BRASS & COP-**per Co., 497 Pearl, New York

## 7635— Moss

American Fiber Co., Jacksonville, Fla.
Atkins & Dubrow, 160 Pearl, New York
Lounsburg, G. H. & Sons, Cincinnati, O.
Payne & Co., Dayton, O.

## 7636— Moss (Irish)

Haskins, L. M., 10 Long wharf, Boston, Mass.
Keller, Robert, 324 N 2d, Philadelphia, Pa.
Kiewert, Chas. L. Co., Milwaukee, Wis.
Schwenker, W. M., 342 E 92d, New York

## 7637— Moss (Peat)

Atkins & Dubrow ("O. K. Holland"), 160 Pearl, New York

## 7638— Moss (Sea)

Payne & Co., Dayton, O.
Selle, H. W. & Co., 216 Lake, Chicago, Ill.

## 7639— Moss (Tree)

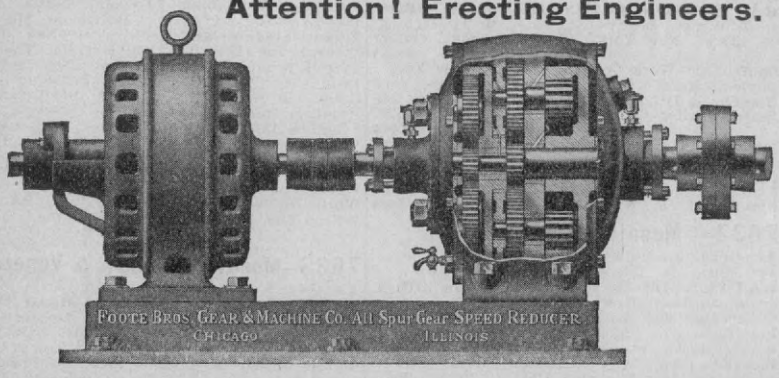
Borgwardt & Ernst Co., 1234 W Chicago av, Chicago, Ill.
Charleston Fibre Co., Charleston, S. C.
Froreich & Co., Morgan City, La.
Giles, Geo. & Co., Ocala, Fla.
Kohlman, Louis, New Orleans, La.
Lace, Geo., D., New Orleans, La.
Phoenix Furniture Co., Charleston, S. C.
Schloss, E., Baton Rouge, La.
Theard, Septime L., New Orleans, La.

## 7640—Motor Boat, Launch & Yacht Builders

(For Designers, see Architects, Naval; see also Ship Builders)
Abercrombie & Fitch Co. (Motor Canoes), 57 Reade, New York
Adams, W. Irving & Son, East Boothbay, Me.
Atlantic Co. (Power Boats, Dory Skiffs, Launches, etc.), Amesbury, Mass.
Benton & Son (Launches), La Crosse, Wis.
Bridgeport Motor Co., Bridgeport, Conn.
Bluff City Boat Co., Stillwater, Minn.
Burgess, W. Starling (Inc.) (Yachts), Marblehead, Mass.
Camden, Anchor-Rockland Machine Co., Rockland, Me.

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Carleton Boat & Canoe Co. (Boats & Canoes), Old Town, Me.
Chadakoin Boat Co., Jamestown, N. Y.
Cooley Mfg. Co., Waterbury, Vt.
Daimler Mfg. Co., Steinway av, Long Island City, N. Y.
De Foe Boat & Motor Works, Bay City, Mich.
De Mooy Bros., 1831 E 55th, Cleveland, O.
Derr, Ralph (Yachts, Launches, Tow Boats, Steel Barges, etc., For Export, a Specialty), Mariners' Harbor, S. I., N. Y.
Detroit Boat Co. (Gasoline, Wooden Boats, Launches and Canoes), Detroit, Mich.
Detroit River Boat & Oar Co. (Boats, Launches, Yachts, etc.), Wyandotte, Mich.
Doman, H. C. Co. (Power Boats, etc.), Osh-Du Brie Motor Co., Detroit, Mich. kosh, Wis.
Edson Boat Co. (Auto Boats), Skaneatles, N. Y.
Electric Launch Co. (Motor Boats, Launches & Yachts, Bayonne City, N. J.
Emmons, E. Gerry, Corp'n, Swampscott, Mass.
Fairfield Motor Co. (Auto Boats, Launches, etc.), Bridgeport, Conn.
Fay & Bowen Engine Co., Geneva, N. Y.
Gas Engine & Power Co. & Chas. L. Seabury Co., Cons. (Naphtha, Alco-Vapor & Gasoline Auto Boats & Launches & Steam & Sail Yachts), Morris Heights, New York, N. Y.
Globe Iron Works Co., Menominee, Wis.
G. R. Gas Engine & Yacht Co. (Launches, Yachts, etc.), Grand Rapids, Mich.
Hampton Roads Boat Building Co., Newport News, Va.
Hansen, A. (Motor Boats & Launches), City Island, N. Y.
Hepburn, J. W. (Launches, Boats, etc.), Toledo, O.
Herreshoff Mfg. Co. (Yachts, etc.), Bristol, R. I.
Hollander & Tangeman ("Fiat" Motor Boats), 3 W 45th, New York
Horton, Boats (Inc.), Rochester, N. Y.
Hubbard Motor Co., Middletown, Conn.
Hunter-Weckler Boat Co. (Motor Boats, Launches, etc.), McHenry, Ill.
Huntington Mfg. Co. (Yachts), New Rochelle,
Jacob, Robt. (Yachts), City Island, N. Y. N. Y.
Jones & La Bourde Co., Oshkosh, Wis.
Judkins Show Case Co., E Providence Centre. R. I.
Lake Shore Engine Works (Motor Boats, Launches, etc.), Marquette, Mich.
Lake Torpedo Boat Co. (Submarine Boats), Bridgeport, Conn.
Lamb Boat & Engine Co., Clinton, Iowa
Lane & De Groot Co., Long Island City, N. Y.
Lawley, Geo. & Son Corp., South Boston, Mass.
Leyare Boat Works, Ogdensburg, N. Y.
Lozier Motor Co. (Motor Boats, Launches, etc.), Detroit, Mich.
Mack Bros. Motor Car Co. (Motor Boats), Allentown, Pa., & Brooklyn, N. Y.
Matinecock Launch & Power Co., Oyster Bay, L. I., N. Y.
Matthews Boat Co., Port Clinton, Ohio
Medart, Fred (Launches, Boats, etc.), 3535 DeKalb, St. Louis, Mo.
Michigan Steel Boat Co. (Steel Launches, Row Boats, Canoes, etc.), 1250 Jefferson av, Detroit, Mich.
Miller, Geo. H. & Co. (Yachts), Patchogue, N. Y.
Milton Boat Works (Boats, Yachts, etc.), Rye, N. Y.
Minnesota Boat & Power Works, Stillwater, Minn.
Moore Boat Works (Auto Boats, Launches, etc.), Wayazata, Minn.
**MULLINS, W. H. CO. (Pressed Steel).** 341 Franklin, Salem, O. (See adv. index, end of book)
Murray & Tregurtha Co. (Yachts, Launches, etc.), 340 W 1st, South Boston, Mass.
National Boat & Engine Co., 1210 Michigan av, Chicago, Ill.
Neumeister, F. P., Rockford, Ill.
New York Kerosene Oil Engine Co., College Point, N. Y.
N. Y. Yacht, Launch & Engine Co., Morris Heights, New York, N. Y.
Nilson Yacht Bldg. Co., Baltimore, Md.
Nock, F. S. (Boats, etc.), East Greenwich, R. I.
Osborn, W. R., Croton on Hudson, N. Y.
Palmer Bros., Cos Cob, Conn.
Panhard & Levassor Auto Co. (Motor Boats & Launches, etc.), B'way & 62nd, New York
Peo, Leon L. & Co. (Launches, etc.), Cape Vincent, N. Y.
Pungs-Finch Co. (Motor Boats, Yachts, etc.), 1524 Jefferson av, Detroit, Mich.
Pussey & Jones Co. (Yachts), Wilmington, Del.
Racine Boat Co. (Gasoline & Steam Launches, Sailing Yachts, etc.), Racine, Wis.
Racine Boat Mfg. Co., Muskegon, Mich.
Ray Car Motor Boat & Machine Co. (Inc.), College Point, N. Y.
Red Wing Boat Mfg. Co., Red Wing, Minn.
Rippley Steel Boat Co. (Steel), Grafton, Ill.
Ruddock, W. F. (Auto Boats, Launches, etc.), 213th & Harlem River, New York
Rushton, J. H. (Boats, Canoes, etc.), Canton, N. Y.
St. Paul Boat Co. (Motor Boats & Launches), St. Paul, Minn.
Salisbury Marine Railway Co., Salisbury, Md.
Seaman Motor & Launch Co. (Motor Boats), Long Branch, N. J.
Schaefer Mfg. Co., Berlin, Wis.
Sheldon Yacht & Power Boat Corp., Neponset, Boston, Mass.
Sparks, C. F. Machine Co. (Motor Boats), Alton, Ill.
Stamford Motor Co. (Inc.) (Launches, Motor Boats, etc.), Stamford, Conn.
Standard Motor Construction Co. ("Standard" Motor Boats & Launches), Jersey City, N. J
Stearns & McKay (Launches, Yachts, etc.), Marblehead, Mass.
Superior Launch Co., Kalamazoo, Mich.
Susquehanna Marine Works Co. (Yachts, Boats Launches, etc.), Havre de Grace, Md.
**THROPP'S, JOHN E. & SONS CO.** (Yachts), ft of Lewis, Trenton, N. J. (See adv. index, end of book)
Toppan Boat Mfg. Co. (Dories, Launches, etc), 7 Haverhill, Boston, Mass.
Truscott Boat Mfg. Co. ("Truscott" Motor Boats, Launches, etc.), St. Joseph, Mich.
Tuttle, D. M. & Co. (Launches), Canastota.
Valley Boat Co., Baldwinsville, N. Y. N. Y.
Weller's, Hiram Sons, Trenton, N. J.
Williams-Whittelsy Co. (Motor Boats, Steam Yachts, etc.), ft. Steinway av, Long Island City, N. Y.
Winona Machine & Boat Works (Launches), Winona, Minn.
Wright, U. G., Paulsboro, N. J.

## 7641— Motor Cloth

Standard Paint Co. (Ruberoid), 100 William, New York

## 7642— Motor Cycle Parts

**DETROIT SCREW WORKS,** 348 Franklin, Detroit, Mich. (See adv. index, end of book)
**NATIONAL-ACME MFG. CO.,** 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 7643— Motor Cycles

(See also Bicycle Manufacturers)

American Motor Co. ("Marsh"), Brockton, Mass.
Armac Motor Co. (Armac), 472 Carroll av, Chicago, Ill.
Aurora Automatic Machinery Co. ("Thor"), Aurora, Ill.
Brown & Beck ("Apache"), Denver, Colo.
Consolidated Mfg. Co. ("Yale"), Toledo, O.
Chicago Motor Cycle Works ("Meteor"), 732 Sheridan, Chicago, Ill.
Crouch Motor Co., Stoneham, Mass.
Emblem Mfg. Co., Angola, N. Y.
Excelsior Supply Co. ("Excelsior"), 233 Randolph, Chicago, Ill.
Harley-Davidson Motor Co., 317 37th, Milwaukee, Wis.
Hendee Mfg. Co. ("Indian"), Springfield, Mass.
Hornecker Motor Co. ("Torpedo"), Geneseo, Ill.
Merkel-Light Motor Co. ("Merkel-Light"), Pottstown, Pa.
Miami Cycle & Motor Mfg. Co., Middletown, O.
Minneapolis Motor Cycle Co., Minneapolis, Minn.
N. S. U. Motor Co., 206 W 76th, New York
**NEW BRITAIN MACHINE CO.** ("Marathon"), New Britain, Conn. (See adv. index, end of book)
Pierce Cycle Co., Buffalo, N. Y.
Pope Mfg. Co. ("Columbia," "Tribune" & "Crawford"), Hartford, Conn.
Reading Standard Co. ("R.-S."), Reading, Pa.
Reliance Motor Cycle Co., Owego, N. Y.
Royal Motor Works, Worcester, Mass.
Shaw Mfg. Co., Galesburg, Kan.
Thiem Mfg. Co., Columbia Heights, Minn.
Wagner Motor Cycle Co., 227 St. Peter, St. Paul, Minn.
Walton Motor Co. ("Midget Bi-Car"), Lynbrook, L. I., N. Y.

## 7643a—Motor High Speed Reducers

**FOOTE BROS. GEAR & MACHINE** Co., 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)

## 7644—Motor Speed Reduction

**FOOTE BROS. GEAR & MACHINE** Co., 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)

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## 7645— Motor Starters

(See Also Rheostats)

**CUTLER-HAMMER MFG. CO. (For** All Purposes), Milwaukee, Wis. (See adv. index, end of book)

**ELECTRIC CONTROLLER & MFG.** Co., Cleveland, O. (See adv. index & branch offices, end of book)

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

## 7646— Motors (Air)

Clark, E. R., Hartford, Conn.

Dake Engine Co. ("Dake" Reversible), Grand Haven, Mich.

**DETROIT HOIST & MACHINE CO., De-**troit, Mich. (See adv. index, end of book)

**INGERSOLL-RAND CO. ("Imperial"),** 11 B'way, New York. (See adv. index & branch offices, end of book)

Underwood, H. B. & Co., 1025 Hamilton, Phila, Pa.

## 7647—Motors (Alternating Current)

(For Motors, Direct Current, see Firms in Dynamo & Motor Mfrs. with the word Direct following their name)

Advance Electric Co., St. Louis Mo.

**ALLIS-CHALMERS CO. ("Bullock")** Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bell Electric Motor Co., Garwood, N. J.

Bissell, F. Co. (Small Motors), Toledo, O.

Burke Electric Co., Erie Pa.

Century Electric Co., St. Louis, Mo.

Crocker-Wheeler Co., Ampere, N. J.

Emerson Elec. Mfg. Co., St. Louis, Mo.

Engineering Electric Mfg. Co. (Small), Stamford, Conn.

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Fidelity Elec. Co. ("Eclipse"), Lancaster, Pa.

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

Holtzer-Cabot Electric Co., Brookline, Mass.

**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)

Kimble Electric Co. ("Kimble-Gregory"), 324 W Washington, Chicago, Ill.

Lincoln Electric Co., Cleveland, O.

Phoenix Electric Co., Mansfield, O.

Reliance Electric & Engineering Co., Cleve-

Richmond Electric Co., Richmond, Va. land, O.

Roth Bros. & Co., 1400 W Adams, Chicago, Ill.

Snyder Electric Mfg. Co., Canal Dover, O.

Star Dynamo Co., Jefferson City, Mo.

**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)

Triumph Electric Co., Cincinnati, O.

Wagner Electric Mfg. Co., St. Louis, Mo.

**WESTINGHOUSE ELEC. & MFG. CO.,** Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7648—Motors (Automobile)

(See Engines, Automobile; also Engines, Gas or Gasoline; also Engines, Marine, Gasoline; also Motors, Electric)

## 7649—Motors (Battery or Toy)

Carlisle & Finch Co., Cincinnati, O.

Elbridge Electrical Mfg. Co., Elbridge, N. Y.

Ithaca Electric Novelty Co. ("Rienco"), Ithaca, N. Y.

[illegible] & Davis ("Porter," "Ajax," "K. & [illegible] "Kent," "Tesla," "Rex," "Standard," "Manchester," "Juno"), Lebanon, N. H.

Lionel Mfg. Co. ("New Departure"), 381 B'way, New York

Ohio Electric Works ("Albert"), Cleveland, O.

Swope, Henry R., 120 N 7th, Phila., Pa.

Voltamp Electric Mfg. Co., Baltimore, Md.

Williams, E. Q., Syracuse, N. Y.

## 7650— Motors (Buffing)

Dilg Mfg. & Trading Co. ("Acme," for Polishing & Refinishing Silverware & other Metal Ware for Hotels, Clubs, etc.), 401 E 163d, New York

Dover Electric Mfg. Co., Canal Dover, O.

**FAIRBANKS, MORSE & CO., 481** Wabash av. Chicago, Ill. (See adv. index & branch offices, end of book)

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

Holtzer-Cabot Electric Co. (Electric Alternating Grinding & Buffing), Brookline, Mass.

Northwestern Mfg. Co., Milwaukee, Wis.

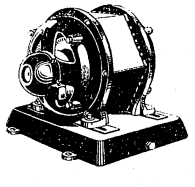
Robbins & Myers Co. (The), Springfield, O.

**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)


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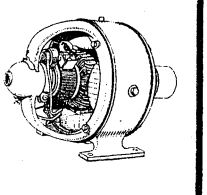
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VERTICAL AND BACK-GEARED MOTORS

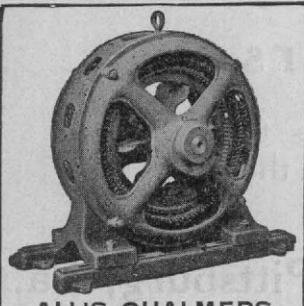
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BECAUSE they are Skillfully Designed, Strongly Built and Liberally Rated

LET US SHOW YOU THEIR MERITS


## 7651– Motors (Dental)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Holtzer-Cabot Electric Co. (Electric), Brookline, Mass.
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Robbins & Myers Co. (The), (Direct Current), Springfield, O.

## Motors (Direct Current)

(See Dynamo & Motor Manufacturers)

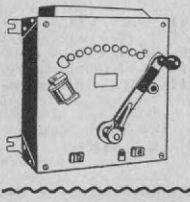
## 7652–Motors (Direct Current Railway)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank Bldg., Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 7653– Motors (Electric)

(See also Dynamo & Motor Manufacturers)

Aaron Electric Co. (Direct Current), 124 S Clinton, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Bell Electric Motor Co. (Single Phase Alternating & Direct), Garwood, N. J.
Benton, Thos. P. & Son ("Multi-Polar" & "Bi-Polar" Direct Current), La Crosse, Wis.
Burke Electric Co. (Direct & Alternating), Erie, Pa.
Century Electric Co. ("Century," Single Phase). 404 N 4th, St. Louis, Mo.
Crocker-Wheeler Co., Ampere, N. J.
Cushman Elec. Co., ("Cushman"), Concord, N.H.
Dayton Electrical Mfg. Co. (Up to 1-16 H. P.), Dayton, O.

Starting rheostats and speed regulators for all types of electric motors. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.


Dover Electric Mfg. Co. (1-30 to 3 H. P.), Canal Dover, O.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
Emerson Electric Mfg. Co., St. Louis, Mo.
**FAIRBANKS, MORSE & CO. (Alternating & Direct Current), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)**
Federal Electric Co. (For General Power Purposes), North Girard, Pa.
Fidelity Electric Co. (1-20 to 20 H. P.), Lancaster, Pa.
Garden City Fan Co., Fisher Bldg. Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Guarantee Electric Co. ("Kimble-Gregory"), 400 S Clinton, Chicago, Ill.
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Imperial Electric Co. (Constant & Variable Speed, Smallest up to 75 K. W.), Akron, Ohio
Jantz & Leist Electric Co. (Enclosed Type, 1½ to 15 h. p.), Cincinnati, O.
Jenney Electric Mfg. Co., Anderson, Ind.
Kinetic Electric Co., 60th & Balto, Phila., Pa.
Lincoln Electric Co. (Small), Cleveland, O.
**MECHANICAL APPLIANCE CO. ("Watson" Direct Current, Single & Polyphase Alternating), Milwaukee, Wis.** (See adv. index, end of book)
New England Motor Co., Lowell, Mass.
**Northern Electrical Mfg. Co. (½ to 2 h-p.), Madison, Wis.**
Northwestern Mfg. Co., Milwaukee, Wis.
**OTIS ELEVATOR CO., 17 Battery pl,** New York. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC COMPANY (Direct & Alternating), Mansfield, O.** (See adv. index, end of book)
Portland Co. (Slow Speed), Portland, Me.
Reliance Electric & Engineering Co. (Variable Speed), Cleveland, O.
Richmond Electric Co. (1 to 50 h-p., Direct Current), Richmond, Va.
Robbins & Myers Co. ("Standard"), Springfield, O.
Rossmassler-Bonine Electric Co., 1236 N. Orkney, Phila., Pa.
Sprague Electric Co. (Direct Current), 527 W. 34th, New York
Star Dynamo Co. (½ to 25 h. p., ½ to 20 k. w.), Jefferson City, Mo.
Stow Mfg. Co. (Multi-Speed), Binghamton, N. Y.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
**SWING ELECTRIC CO. (1-4 to 40** h. p.), Cincinnati, O. (See adv. index, end
Triumph Electric Co., Cincinnati, O. of book)
United Pump & Power Co. ("Thompson"), Old Colony bldg. Chicago, Ill.
Wagner Electric Mfg. Co. ("Schuler" Single Phase Alternating, etc.), St. Louis, Mo.


*Alternating Current* *Direct Current*

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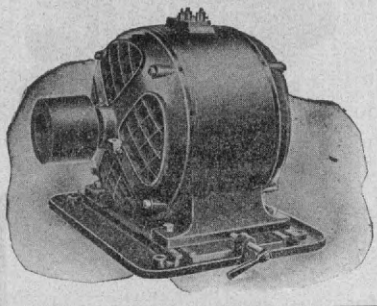
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*CINCINNATI, OHIO*


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**BELLEVILLE, N. J.**



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Protected, Enclosed and Semi-Enclosed Types for installation on floor, wall or ceiling, or for attachment to special apparatus in horizontal or vertical position.

*1-32 to 20 H. P.*

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### 7654—Motors (Electric Crane)

Crocker-Wheeler Co., Ampere, N. J.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Jenney Electric Mfg. Co., Anderson, Ind.
**MECHANICAL APPLIANCE CO., Milwaukee, Wis.** (See adv. index, end of book)
**PHOENIX ELECTRIC CO., Mansfield,** O. (See adv. index, end of book)
Sprague Electric Co., 527 W. 34th, New York
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)
Triumph Electric Co., Cincinnati, O.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

### 7655—Motors (Electric Elevator)

Burke Electric Co., Erie, Pa.
Crocker-Wheeler Co., Ampere, N. J.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Federal Electric Co., North Girard, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.** ("Ideal Special"), Mansfield, O. (See adv. index & branch offices, end of book)
Imperial Electric Co., Akron, Ohio
Jenney Electric Mfg. Co., Anderson, Ind.
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**PHOENIX ELECTRIC COMPANY (Direct & Alternating),** Mansfield, O. (See adv. index, end of book)
Portland Co., Portland, Me.
Robbins & Myers Co., Springfield, O.
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)
Triumph Electric Co. ("Triumph"), Oakley, Cincinnati, O.
Wagner Electric Mfg. Co. (Alternating Current), St. Louis, Mo.
**WARNER ELEVATOR MFG. CO.,** Spring Grove av, Alfred & Valley, Cincinnati, O. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. CO.** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

### 7656—Motors (Electric Family)

Steiner Mfg. Co., St. Louis, Mo.

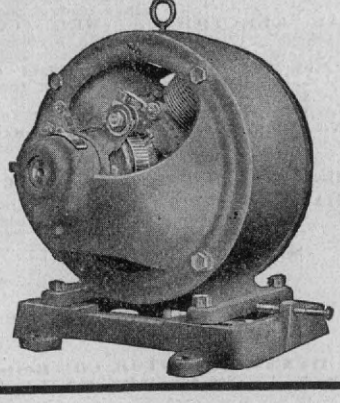
### 7657—Motors (Electric Fan)

Crocker-Wheeler Co., Ampere, N. J.
**ECK DYNAMO & MOTOR CO. ("Eck Hurricane"),** Belleville, N. J. (See adv. index, end of book)
Emerson Electric Mfg. Co. (Alternating, Desk Bracket & Ceiling), St. Louis, Mo.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Goldmark, Jas. Co. (Hurricane Direct Current), 83 Warren, New York
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
**MECHANICAL APPLIANCE CO. (Direct &** Alternating Current, Ventilating), Milwaukee, Wis. (See adv. index, end of book)
Menominee Electric Mfg. Co., Menominee, Mich.
Peerless Electric Co., Warren, Ohio.
**PHOENIX ELECTRIC COMPANY,** Mansfield, O. (See adv. index, end of book)
Robbins & Myers Co., Springfield, O.
Sprague Electric Co., 527 W 34th, New York
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

### 7658—Motors (Electric, for Flexible Shafts)

Dover Electric Mfg. Co., Canal Dover, O.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)


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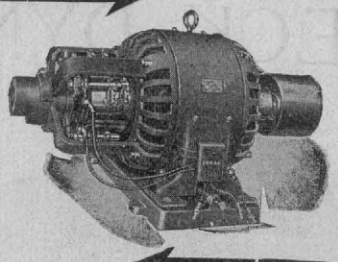
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Stow Flexible Shaft Co., Phila., Pa.
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)

## 7658a—Motors (Electric, for Machine Tools)

**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)

## 7659—Motors (Electric Mining)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
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## Motors (Electric Railway)

(See Generators, Street Railway)

## 7660—Motors (Electric, Single Phase Railway)

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**WESTINGHOUSE ELECTRIC & MFG. Co.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7660a—Motors (for Wood Working Machinery)

**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)

## 7661— Motors (Gasoline)

(See Engines, Automobile; also Engines, Gas & Gasoline; also Engines, Marine, Gasoline)

## 7663— Motors (Induction)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Century Electric Co. ("Century," Single Phase), St. Louis, Mo.
Crocker-Wheeler Co. (Alternating Current), Ampere, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO. (Alternating Current),** Schenectady, N. Y. (See adv. index, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Jenney Electric Mfg. Co. (Constant & Variable Speed), Anderson, Ind.
Kimble Electric Co. (Single Phase), 114 Washington blvd, Chicago, Ill.
**MECHANICAL APPLIANCE CO. (¼ to** 10 h. p.), Milwaukee, Wis. (See adv. index, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)
Reliance Electric & Engineering Co., Cleveland, O.
Richmond Electric Co. (1 to 50 h. p.), Richmond, Va.
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)
Triumph Electric Co., Cincinnati, O.
Wagner Electric Mfg. Co. ("Wagner" Single Phase), St. Louis, Mo.
Western Electric Co., 500 S Clinton, Chicago, Ill.
**WESTINGHOUSE ELEC. & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7664—Motors (Interpole Railway)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7665—Motors (Knock Down Marine)

Knock Down Motor Co. (Gasoline), 95 Liberty, New York

## 7666— Motors (Naphtha)

Gas Engine & Power Co. & Chas. L. Seabury & Co. (2 & 4 Cycle), Morris Heights, N. Y.

## 7667— Motors (Oil)

Lackawanna Mfg. Co. ("Lackawanna," Petroleum), Newburgh, N. Y.

## 7668— Motors (Organ)

(See also Motors, Water)
**AMERICAN STEAM PUMP CO.** (Hydraulic), Battle Creek, Mich. (See adv. index & branch offices, end of book)
Bishop-Babcock-Becker Co., Cleveland, O.
Kipp, A., Jr., Ossining, N. Y.
Organ Power Co. ("Spencer," Water & Electric), Hartford, Conn.
Rhodes, L. E. ("Spencer"), Hartford, Conn.
Roberts, Geo. J. Co., Dayton, O.
Ross Valve Mfg. Co. ("Ross" Water Engines), Troy, N. Y.
Whitney, F. E. ("The Boston"), 65 Sudbury, Boston, Mass.

## 7669—Motors (Organ Blowing, Electric)

Diehl Mfg. Co., Elizabeth, N. J.
**ECK DYNAMO & MOTOR CO., Belle**ville, N. J. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)
Robbins & Myers Co. (The), Springfield, O.
Sprague Electric Co., 527 W. 34th, New York
**SWING ELECTRIC CO., 327 E 6th,** Cincinnati, O. (See adv. index, end of book)

## 7670—Motors (Piano, Automatic)

**MECHANICAL APPLIANCE CO.** (Electric), Milwaukee, Wis. (See adv. index, end of book)

## Motors (Pneumatic)

(See Pneumatic Motors)

## 7671—Motors (Sewing Machine)

Crocker-Wheeler Co., Ampere, N. J.
Diehl Mfg. Co., Elizabeth, N. J.
**ECK DYNAMO & MOTOR CO., Belle**ville, N. J. (See adv. index, end of book)

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**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Robbins & Myers Co, (The), Springfield, Ohio
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7671a—Motors (Single Phase, Electric)

(See Motors, Induction)

## 7672— Motors (Stoker)

**UNION STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)

## 7673— Motors (Synchronous)

Burke Electric Co., Erie, Pa.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7674—Motors (Textile Machinery)

**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield,** Ohio. (See adv. index, end of book)
**SWING ELECTRIC CO. (Electric),** 327 E 6th, Cincinnati, O. (See adv. index, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 7675— Motors (Turnable)

**FAIRBANKS, MORSE & CO. (Air,** Electric & Gasoline), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 7676— Motors (Valve)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 7677—Motors (Variable Speed)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Crocker-Wheeler Co., Ampere, N. J.
Cushman Electric Co., Concord, N. H.
**ECK DYNAMO & MOTOR CO., Belleville, N. J.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
Imperial Electric Co., Akron, O.
Jenney Electric Mfg. Co., Anderson, Ind.
Kimble Electric Co. (Single Phase & Reversible Single Phase), 1121 Washington blvd, Chicago, Ill.
**PHOENIX ELECTRIC CO., Mansfield,** Ohio. (See adv. index, end of book)
Reliance Electric & Engineering Co., Cleveland, O.
**Richmond Electric Co. ("Richmond,"** Polyphase), Richmond, Va.
Triumph Electric Co., Cincinnati, O.

## 7678— Motors (Water)

Althouse-Wheeler Co. ("Waupun"), Waupun, Wis.
American Water Motor Co. ("American" Automatic), Columbus, O.
American Water Softener Co., 1009 Chestnut, Phila., Pa.
Backus Water Motor Co., Newark, N. J.
Bates, D. L. & Bro. Co., Dayton, O.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Carlisle & Finch Co., Cincinnati, O.
Chicago Water Motor & Fan Co., 40 Dearborn, Chicago, Ill.
Dayton Fan & Motor Co., Dayton, O.
Dicke Tool Co. (For Washing Bottles), Downers Grove, Ill.
Divine Water Motor Co. ("Divine"), Utica,
Favorite Mfg. Co., Columbus, O. N. Y.
Gaylord & Eitapence Co. ("Climax"), Binghamton, N. Y.
General Fire Extinguisher Co., Providence, R. I.
Gilmore Electric Co. ("Little Giant"), 625 E 1st, Boston, Mass.
Hunter Fan & Motor Co. ("Syracuse," "Tuerk"), Fulton, N. Y.
Indiana Fan Co., Indianapolis, Ind.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lippincott Steam Specialty & Supply Co., Newark, N. J.
Little, Thos. A., Wheeling, W. Va.
Miller Foundry & Specialty Co. (With Emery & Buffing Wheels), North Tonawanda, N. Y.
Norton Water Motor Co. (Inc.) (⅛ to 2 h. p.), Roslindale, Mass.
Organ Power Co. ("Spencer"), Hartford, Conn.
Pelton Water Wheel Co. (Also Direct Connected), Monadnock bldg., San Francisco, Cal., & 90 West, New York
Rhodes, L. E., Hartford, Conn.
Roberts, Geo. J. Co., Dayton, O.
Rosenberg, A. Motor & Mfg. Co. ("Polar," "Arctic"), Baltimore, Md.
Ross Valve Mfg. Co. (For Pumping Organs), Troy, N. Y.
Russell, Jno. W. & Sons Co. ("Hercules"), Springfield, Mass.
Spears & Riddle Co. (For Washing Machines), Wheeling, W. Va.
Smith, M I. (Little Hustler), Bristol, Conn.
Vaile & Kimes ("V. & K." & "Dayton" Automatic), Dayton, O.
Valley City Machine Works (For Washing Machines, etc.), Grand Rapids, Mich.
Whitney, F. E., 65 Sudbury, Boston, Mass.

## 7679— Mouldings (Carved)

American Carving & Mfg. Co. (Carved, Rope & Beaded), 900 Granville av, Grand Rapids, Mich.
Baltimore Sash & Door Co., Baltimore, Md.
Central Planing Mill & Lumber Co., 3d & Q, Louisville, Ky.
Chicago Mill Work Supply Co., 967 W 20th, Chicago, Ill.
Dwight Lumber Co. (Also Plain), Rouge River & M. C. R. R., Detroit, Mich.
Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.
Fritts, D. H. & Co., 414 N Wood, Chicago, Ill.
Gauger, Jno. A. & Co., W 22d & Laflin, Chicago, Ill.
Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.
Hartmann, Malcolm Co., 153 N Jefferson, Chicago, Ill.
Hinner's, E. H. Sons, Edgewater, N. J.
Hyde-Murphy Co., Ridgway, Pa.
Johnson & Tomek Co., 1819 Carroll, Chicago,
Leslie, Jno., 138 W 15th, New York Ill.
McKay-Angus Co., 724 S Desplaines, Chicago, Ill.
McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.
Morgan Co. (For the Trade Only), Oshkosh, Wis. & W 22d & S Union, Chicago, Ill.
New York Carved Moulding Co., Third av & 139th, New York
Ohio Scroll & Lumber Co., Covington, Ky.
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
Palmer, Fuller & Co., 2244 Lumber, Chicago,
Peirce, W. E. & Co., Millford, N. H. Ill.
Poppert, Geo. Mfg. Co., Milwaukee, Wis.
Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book)
Vicker, G. P. Mfg. Co., Louisville, Ky.
Waccamaw Lumber Co., Bolton, N. C.
Waddell Mfg. Co., Grand Rapids, Mich.
Western Sash & Door Co., Kansas City, Mo.

## 7679a—Mouldings (Cold Drawn Steel or Bronze)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## Mouldings (Composition)

(See Ornaments, Composition)

## 7680—Mouldings (Copper, Brass & Bronze)

Ansonia Brass & Copper Co., Ansonia, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Cowles, C. & Co. (Inc.) (Brass Door), New Haven, Conn.
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)
**HUNGERFORD, U. T. BRASS & COP-**per Co., 497 Pearl, New York
**JONES, TREVOR F. & CO., 374 W** Broadway, New York. (See adv. index, end of book)
Manhattan Brass Co., 334 E 28th, New York
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Rome Brass & Copper Co., Rome, N. Y.
Waterbury Brass Goods Corporation, Waterbury, Conn.

## 7681—Mouldings (Electric Wiring)

American Circular Loom Co. ("Lutz" Metal), Chelsea, Mass.
Bissell, F. Co. (Wood, Spider Wire, "Security"), Toledo, O.
Central Mfg. Co., Chattanooga, Tenn.
Foley Mfg. Co., 427 22d, Chicago, Ill.
Improved Moulding Mfg. Co. (Wire Grip), N 21st & Allegheny av, Phila., Pa.
**JOHNS, H. W.-MANVILLE CO.** ("Electrobestos" Fireproof), 100 William, New York. (See adv. index & branch offices, end of book)
Johnson Bros., 45 Classon av, Brooklyn, N. Y.
K. B. Co., 38 S 6th, Phila., Pa.
Kirkpatrick Mfg. Co. ("Simplex"), 10th & Westmorland, Phila., Pa.
Mitchell Moulding Co., 21st & Morgan, Chicago, Ill.
National Metal Molding Co. (Metal), Pittsburg, Pa.
Planett Lumber & Mfg Co., La Porte, Ind.
Saulpaugh's, J. M. Sons, 180 Lewis, New York
Sheip, H. H. Mfg. Co., 529 Columbia av, Phila., Pa.
Thornton & Co., Holland, Mich.
Wright & Craycroft, 1439 W 21st, Chicago, Ill.

## 7681a—Mouldings (Electrical, Wood)

(See Mouldings, Electric Wiring)

## 7682—Mouldings (Embossed)

Anderson & Lind Mfg. Co., 2127 Iowa, Chicago, Ill.
Bilek, Stephen Co., 2117 S Troy, Chicago, Ill.
Boynton & Co., 1725 Dickson, Chicago, Ill.
Chicago Embossed Moulding Co., 1339 Clybourn pl, Chicago, Ill.
Chicago Mill Work Supply Co., cor 967 W 20th, Chicago, Ill.
Diebold Lumber & Mfg. Co., Pittsburg, Pa.
Fitzgerald, Speer Co., Pen Argyl, Pa.
Gebhardt, J. F., Calyer & Newell, Brooklyn,
Hyde-Murphy Co., Ridgway, Pa. N. Y.
L'Hote Lumber Mfg. Co., New Orleans, La.
Mertz's, Geo. Sons, Porchester, N. Y.
New York Carved Moulding Co., Rider av & 139th, New York
Ohio Scroll & Lumber Co., Covington, Ky.
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
Pierce, W. E. & Co., Milford, N. H.
Rock Island Sash & Door Works, Rock Island, Ill.

## 7683—Mouldings (German Silver)

(See Mouldings, Copper, Brass, Etc.)

## 7684—Mouldings (Metal Covered)

Chicago Metal Covering Co., 311 N Green, Chicago, Ill.
Gould-Mersereau Co., 43 E 19th, New York
Judd, H. L. Co., 87 Chambers, New York

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## 7685—Mouldings (Picture Frame)

Brown Bros. Mfg. Co., Elmira, N. Y.
Cass, B. T. & Co., 40 Union Park, Chicago, Ill.
Harsha, L. R. Mfg. Co., Carroll av & Robey, Chicago, Ill.
Illinois Moulding Co., 2411 W 23d, Chicago, Ill.
Klicka, Joseph Co., 1941 California av, Chicago, Ill.
Larsen, C. & Co., Leavitt & Kinzie, Chicago,
Lippe & Co., 328 E 26th, New York Ill.
Lowe, Albert C., Inc., 8 S 10th, Phila., Pa.
Pape Bros. Moulding Co., Cincinnati, O.
Raubold & Lambin, 19 N Ann, Chicago, Ill.
Schoek Mfg. Co., Minneapolis, Minn.
Schrafft, A. Moulding Co., Newark, N. J.
**UNION METAL CORNER CO ("Outersite" Metal Invisible & "Hannon" Ornamental), 144 Pearl, Boston, Mass.** (See adv. index, end of book)
Webber, J. R. Moulding Co., 21st & Cass av, St. Louis, Mo.

## 7686—Mouldings (Rope & Twisted, Etc.)

American Carving & Mfg. Co. (Carved, Rope & Beaded), Grand Rapids, Mich.
American Woodworking Co., 4345 Wabansia av, Chicago, Ill.
Artistic Wood Turning Works, 311 N Sangamon, Chicago, Ill.
Boynton & Co., 1725 Dickson, Chicago, Ill.
Chicago Mill Work Supply Co., 967 W 20th, Chicago, Ill.
Doty, G. W. Co. (Turned, Beaded), 107 W Monroe, Chicago, Ill.
Ellsworth Hardwood Co. (Also Ball), Ellsworth, Me.
Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.
Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
L'Hote Lumber Mfg. Co., New Orleans, La.
Mertz's, Geo. Sons, Port Chester, N. Y.
Michigan Toy & Novelty Co., Holland, Mich.
Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
New York Carved Moulding Co., 3rd av & 139th, New York
Ohio Scroll & Lumber Co., Covington, Ky.
Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
Pierce, W. E. & Co., Milford, N. H.
Prendergast, John, 811 Norton, Chicago, Ill.
Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill
Rome, Henry Mfg. Co. (Rope & Bead), Newaygo, Mich.
Waddell Mfg. Co., Grand Rapids, Mich.

## 7687—Mouldings (Sheet Metal)

Broschart & Braun, 607 W. 130th, New York
**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W Congress, Detroit, Mich. (See adv. index, end of book)**
Chicago Metal Covering Co., 311 N Green, Chicago, Ill.
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. (See adv. index & branch offices, end of book)
**FRIEDLEY-VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
Grinden Art Metal Co. (Steel, Brass & Bronze), 43 Water, Brooklyn, N. Y.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, Ohio
Souther, E. E. Iron Co., St. Louis, Mo.

## 7688—Mouldings (Sheet Steel, Brass & Bronze)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)
**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 7689— Moulding (Spiral)

(See Mouldings, Rope & Twisted, Etc.)

## 7690— Mouldings (Steel)

**BRAUN, J. G. (For Store Fronts,** Stairways, Elevator Enclosures, etc.), 615 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)

## 7691—Mouldings (Steel Picture)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## Moulds

(See Molds, Various Kinds)

## 7692—Mountings (Automobile)

American Auto-Brass Co., Columbus, O.
**AMERICAN METAL DOOR CO.,** (Light Sheet Steel Mouldings), Bradford, Pa. (See adv. index, end of book)
Atwood Mfg. Co. (Metal), Amesbury, Mass.
Auto Brass & Aluminum Co., Flint, Mich.
Auto Top & Specialty Co. (Rails), B'way & 63d, New York
Columbus Brass Co. (Dash & Foot Rails), 43 N 4th, Columbus, O.
Cowles, C. & Co., New Haven, Conn.
**DAHLSTROM METALLIC DOOR CO.** (Light Sheet Steel Mouldings), Jamestown, N. Y. (See adv. index, end of book)
English & Mersick Co., New Haven, Conn.
Kinsey Mfg. Co. (Brass Moulding for Steps), Toledo, O.
Murdock, Jas. (Metal), Cincinnati, O.
Murphy, G. W. J. Co. (Silver Mouldings), Merrimac, Mass.
Parry, A. N. & Co. (Brass Slats, etc.), Amesbury, Mass.
Rands Mfg. Co. (Brass & Nickeled Rails), Detroit, Mich.
Ritter Mfg. Co. (Brass), Detroit, Mich.
Smith, Jos. N. & Co. (Brass & Nickel Rails, Tonneau Door Handles & Hinges), Detroit, Mich.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
White Mfg. Co. (Mouldings), Bridgeport, Conn.
Wing, Chas. Co., Amesbury, Mass.
Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

## 7693— Mountings (Bag)

Conlan, Bernard (For Belts, Buckles, Purses, Ornaments, etc.), Newark, N. J.
Gould's, M. Son Co., 61 Hamilton, Newark,
Jenkinson, R. C. & Co., Newark, N. J. N. J

## 7694—Mountings (Umbrella & Parasol)

Novelty Mfg. Co., Waterbury, Conn.

## 7695—Mounts (Photographic)

Bridges Mfg. Co., Rochester, N. Y.

## 7696—Mower & Reaper Sections

Akron Machine Co., Akron, O.
Henry & Allen, Auburn, N. Y.
Herschel, R. Mfg. Co., Peoria, Ill.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 7697— Mowers & Reapers

(See also Agricultural Implement Manufacturers)

Acme Harvester Co. (Grass Howers), Peoria, Ill.
Adriance, Platt & Co. (Geared or Chain Mowers & "Adriance" & "Triumph" Reapers), Poughkeepsie, N. Y.
Akron Machine Co., Akron, O.
Aultman & Taylor Machinery Co., Mansfield, O.
Dain Mfg. Co., Ottumwa, Ia.
Emerson-Brantingham Co., Rockford, Ill.
Eureka Mower Co., Utica, N. Y.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fuller & Johnson Mfg. Co., Madison, Wis.
Granite State Mowing Machine Co., Hinsdale, N. H.
**INTERNATIONAL HARVESTER CO.** of America (Reapers, Grain, Hemp, Mowers One & Two Horse), 230 Harvester bldg, Chicago, Ill. Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Johnston Harvester Co., Batavia, N. Y.
Messinger Mfg. Co., Tatamy, Pa.
Plattner Implement Co., Denver, Colo.
Richardson Mfg. Co. (Mowers), Worcester, Mass.
Rockford Mfg. Co. ("Ellwood," "Imperial"), Rockford, Ill.
Selberling & Miller, Doylestown, O.
Thomas Mfg. Co. (Mowers Only, "Thomas" Crown Regular & Changeable Speed & Ditch Bank), Springfield, O.
Wayne Works, Richmond, Ind.
Wood, W. A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 7698— Mucilage Mfrs.

Bankers' Ink Co., Kansas City, Mo.
Higgins, Chas. M. & Co. ("Higgins"), Brooklyn, N. Y.
Monarch Glue Co. ("Monarch"), Cincinnati, O.
National Gum & Mica Co. ("Jugfull"), 502 W 45th, New York
Woodmansee, F. A. ("Woodmansee"), Cincinnati, O.

## Mudguards (Automobile)

(See Fenders & Guards, Automobile)

## 7699—Muffle Furnace Fronts

Bethlehem Foundry & Machine Co. (For Chemical Mfrs., etc.), South Bethlehem, Pa.
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 7700—Mufflers (Automobile)

American Auto Brass Co., Columbus, O.
Auto & Power Appliance Co., Arcade, Cleveland, O.
Baldwin Chain & Mfg. Co., Worcester, Mass.
Bates, F. E. & Co. ("Bates"), Northfield, Minn.
Brennan Motor Co. ("Brennan"), Syracuse, N. Y.
Briscoe Mfg. Co., Detroit, Mich.
Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
Clemeck-Hirsch Co., Milwaukee, Wis.
Columbus Screw & Machine Co., Columbus, O.
Crouch, Chas. P. & Co., 472 Carroll, Chicago, Ill.
Degenhart & Co., Buffalo, N. Y.
Duryea Power Co., Reading, Pa.
Federal Auto Co., 1st Nat'l Bank Bldg., Chicago, Ill.
Geer, Harry R. & Co. (Motor Cycles), St. Louis, Mo.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Gray-Hawley Mfg. Co. ("Gray"), Detroit, Mich.
Hatcher Auto-Parts Co. ("E.-H."), Cleveland, Ohio
Hayes Mfg. Co., Detroit, Mich.
Kells, W. J. Mfg. Co., Jersey City, N. J.
Kinsey Mfg. Co. ("Kinwood"), Toledo, O.
Knobloch-Heideman Mfg. Co., South Bend, Ind.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Le Nonpareil Muffler Co., 286 Taaffe pl, Brooklyn, N. Y
Loomis Autocar Co., Westfield, Mass.
McClure-Buchner Co., 911 S Homan av, Chicago, Ill.
Mayo Damper Co., Pottstown, Pa.
Milwaukee Auto Engine & Supply Co., Milwaukee, Wis.
Milwaukee Motor Co., Milwaukee, Wis.
Motor Car Power & Equipment Co., Milwaukee, Wis.
Motsinger Device Mfg. Co., Lafayette, Ind.
Murray, W. B., 1253 Milwaukee av, Chicago, Ill.
Neustadt Automobile & Supply Co., St. Louis, Mo.
Northway Motor & Mfg. Co., Detroit, Mich.
Ohio Blower Co., Cleveland, O.
Oldberg Mfg. Co., Detroit, Mich.
Powell Muffler & Turner Co., Utica, N. Y.
Relay Motor Car Co. ("Wyoma"), Reading, Pa.
Ross & Kramer, 5607 S Halsted, Chicago, Ill.
Runyen, Jas. & Son, Redkey, Ind.
Saginaw Sheet Metal Works, Saginaw, Mich.
**SCAIFE, WM. B., & SONS CO., 221 1st av,** Pittsburg, Pa. (See adv. index, end of book)
Smith, D. B. & Co. ("Yankee"), Utica, N. Y.
Snow, B. W., Syracuse, N. Y.
Sun Stove Co., Detroit, Mich.
Sterling Machine Co., Norwich, Conn.
Warren Mfg. Co., Warren, Mass.

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Weeber, C. F. Mfg. Works ("Weeber"), Albany, N. Y.
Weiss, Louis T., 286 Graham, Brooklyn, N. Y.
Westerfield Motor Co., Anderson, Ind.
Western Motor Co., Logansport, Ind.
Wilcox Engineering Co., Saginaw, Mich.
Williamson, Thomas G., S S 39th, Phila, Pa.
Xardell, J. A. & C. A. (Vacuum), Utica, N. Y.
Yankee Muffler Co. ("Yankee" Silent), Utica, N. Y.

## 7701—Mufflers (Pop Valve)

**LUNKENHEIMER CO., General Office & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 7701a— Muffles

**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 7702—Muffles (Enameling)

Brooklyn Fire Brick Works. Brooklyn, N. Y.
Denver Fire Clay Co., Denver, Colo.

## 7703—Multi Stage, High Lift Centrifugal Pumps

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)

## 7704— Muriate of Potash

(See Firms in Potash with the word "Muriate" following name)

## 7705— Muriates of Tin

Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
General Chemical Co. (Crystals, Solution, Bichloride & Oxy), 25 Broad, New York

## 7706—Music Holders or Racks

Moody, Geo. O. & Co., Canton, O.

## 7707— Muslin (Varnished)

Dielectric Mfg. Co. (For Electrical Insulation), St. Louis, Mo.

## 7708— Muzzles (Dog)

Buchheimer, Geo. H. (Leather), Baltimore, Md.
Carroll Muzzle Co. (Wire), Carroll, Ia.
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Graham & Berwin (Leather), 148 Chambers, New York
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Progressive Wire Goods Co., 528 Commerce, Wire Goods Co., Worcester, Mass. Phila., Pa.

## 7709—Muzzles (Horse & Ox)

Barbee Wire & Iron Works (Wire), 44 Dearborn, Chicago, Ill.
Carroll Muzzle Co. (Wire), Carroll, Ia.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Wire Goods Co. (Japanned Wire, etc.), Worcester, Mass.

## 7710— Myrbane

Berlin Aniline Works, 213 Water, New York
Magnus, Mabee & Raynard, 257 Pearl, New York
Metz, H. A. & Co., 122 Hudson, New York
National Aniline & Chemical Co., 100 William New York

## 7711— Nail Sets

American Spring Needle Works, New Britain,
Braunsdorf-Mueller Co., Elizabeth, N. J. Conn.
Browne & Dowd Mfg. Co. (Knurled Cup Point), Meriden, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Buck, Chas. (Square & Round Points), Millbury,
Buell Bros., Clinton, Conn. Mass.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Bullock Mfg. Associates, Springfield, Mass.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Deuse, J. S., Chester, Conn.
Ducharmes & Co., Shelburne Falls, Mass.
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Elmore Tool Mfg. Co. ("Elmore"), Hartford,
Goodell-Pratt Co., Greenfield, Mass. Conn.
Irvin Auger Bit Co., Wilmington, O.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Works) (Plain, Knurled Cup Points), Newark, N. J.
Keystone Mfg. Co. ("Keystone"), Buffalo, N. Y.
Kilborn & Bishop Co., New Haven, Conn.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co. ("U. S."), Newark, N. J.
Massachusetts Saw Works, Chicopee, Mass.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Peck, W. A., New Haven, Conn.
Quality Saw & Tool Co. Works ("Quality"), Springfield, Mass.
S. & I. Co., Springfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Sayre, L. A. & Co., Newark, N. J.
Snell Mfg. Co., Fiskdale, Mass.
Stanley Rule & Level Co., New Britain, Conn
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.
Syracuse Twist Drill Co., Syracuse, N. Y.
Tuck Mfg. Co. (Plain, Corrugated, Knurled & Channel), Brockton, Mass.
Union Caliper Co., Orange, Mass.
Vaughan & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.
Washington Cutlery Co., Watertown, Wis.

## 7712— Nails (Aluminum)

Hassall, Jno. (Inc.), Clay & Oakland, Brooklyn,
Milwaukee Tack Co., Milwaukee, Wis. N. Y.

## 7713—Nails (Aluminum Coated)

Wilder Metal Coating & Mfg. Co., Connellsville, Pa.

## 7714— Nails (Barbed)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill (See adv. index & branch offices, end of book)
Corbin Screw Corporation (Steel Wire), New Britain, Conn
Igoe Bros., 69 Metropolitan av, Brooklyn, N Y., & Newark, N. J.
Norton Iron Works (Common & Car), Ashland
Wire Goods Co., Worcester, Mass. Ky
Youngstown Sheet & Tube Co. (Common & Car), Youngstown, O.

## 7714a— Nails (Barrel)

(See Nails, Box)

## 7715—Nails (Boat, Copper, Etc.)

**HUNGERFORD, U. T. BRASS & COPper Co.,** 497 Pearl, New York

## 7716— Nails (Box)

**AMERICAN STEEL & WIRE CO.** (Barbed & Smooth), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Corbin Screw Corporation (Steel Wire), New Britain, Conn.
Crawfordsville Wire & Nail Co. (Barbed). Crawfordsville, Ind
Globe-Taunton Nail Co. (Blind. Rugby, etc.), Taunton, Mass.
Igoe Bros., 69 Metropolitan av, Brooklyn, N Y., & Newark, N. J.
Kokomo Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville, O.
Milwaukee Tack Co. (Berry Box, Basket, etc.). Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa
Stanley, Geo. W. Co., Belleville, Ill.
Superior Tack & Nail Co., Penn Yan, N. Y., & Derby, Conn.
Van Alen & Co. (Cut), Northumberland, Pa.
Wire Goods Co., Worcester, Mass.
Youngstown Sheet & Tube Co., Youngstown, O.

## 7717—Nails (Brass Cast)

**TURNER & SEYMOUR MFG. CO., Torrington,** Conn. (See adv. index, end of book)

## 7718—Nails (Brass & Copper)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Berbecker & Rowland Mfg. Co., Waterville Conn
Clendenin Bros (Copper), Baltimore, Md.
Grand Crossing Tack Co., S Chicago, av & 79th, Chicago, Ill.
Hassall, Jno. (Inc.) (Boat, Slating, etc.), 45 Lafayette, New York
**HUNGERFORD, U. T. BRASS & COPper Co.,** 497 Pearl, New York
Hussey, C. G. & Co. (Copper Only), Pittsburg, Pa.
International Brass & Electric Co. (Hexagon Machine Made), 76 Beekman, New York
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Milwaukee Tack Co., Milwaukee, Wis.
Phillips, E. & Sons, South Hanover, Mass.
Rome Brass & Copper Co., Rome, N. Y.
Taunton-New Bedford Copper Co. (Copper Only), New Bedford & Taunton, Mass.

## 7719— Nails (Broom)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Shelton Co., Shelton, Conn.

## 7720— Nails (Carpet)

**AMERICAN STEEL & WIRE CO.** ("Peerless," "American" Tacks), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Corbin Screw Corporation (Steel Wire), New Britain, Conn.
Milwaukee Tack Co. ("Bonita," "Standard," "Leroy," etc.), Milwaukee, Wis.
Shelton Co., Shelton, Conn.
**TURNER & SEYMOUR MFG. CO., Torrington,** Conn. (See adv. index, end of book)

## 7721— Nails (Casing)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Igoe Bros., Newark, N. J.
Kokomo Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville, O.
Youngstown Sheet & Tube Co. (Casing & Smooth Box), Youngstown, O.

## 7722—Nails (Cement Coated Wire)

Pearson, J. C. Co., Old South bldg, Boston, Mass.
Wilson Mfg. Co., 225 W 45th pl, Chicago, Ill.

## 7723— Nails (Cigar Box)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Grammes, L. F. & Son, Allentown, Pa.
Hassall, Jno. (Inc.), Clay & Oakland, Brooklyn,
Milwaukee Tack Co., Milwaukee, Wis. N. Y.
Shelton Co., Shelton, Conn.

## 7724— Nails (Clinch)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Crawfordsville Wire & Nail Co. (Barbed), Crawfordsville, Ind.
Igoe Bros., Newark, N. J.
Kokomo Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville, O.
Shelton Co., Shelton, Conn.
Van Alen & Co. (Cut), Northumberland, Pa.
Youngstown Sheet & Tube Co., Youngstown, O.

## 7725— Nails (Clout)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Tack Works, Cleveland, O.
Diamond Tack & Nail Works, Raynham, Mass.
Igoe Bros., Newark, N. J.
Holland Mfg. Co., Baltimore, Md.
La Belle Iron Works, Steubenville, O.
Milwaukee Tack Co., Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Phillips, E. & Sons, South Hanover, Mass.
Stanley, Geo. W. Co., Belleville, Ill.
Shelton Co., Shelton, Conn.
Superior Tack & Nail Co., Derby, N. Y.
Tower Mfg. Co., Cincinnati, O.
Van Alen & Co. (Cut), Northumberland, Pa.

## 7726— Nails (Clutch)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)

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**CARY MFG. CO. ("Cary's" Patent Twisted)**, 29 Roosevelt, New York. (See adv. index, end of book)
De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
Indianapolis Staple & Tack Co., Indianapolis, Ind.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.

## 7727— Nails (Coated)

Youngstown Sheet & Tube Co., Youngstown, O.

## 7728— Nails (Corrrugated)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Corrugated Steel Nail Co. (Steel), Springfield, O.
Phillips, E. & Sons (Brass & Iron), South Hanover, Mass.

## 7729— Nails (Cut)

Bailey, Chas. L. & Co. (Inc.) (Iron & Steel), Harrisburg, Pa.
Belfont Iron Works Co. (126 Machines), Ironton, O.
Brooke, E. & G. Iron Co., Birdsboro, Pa.
Glasgow Iron Co., Pottstown, Pa.
Godcharles, F. A. Co. (Iron & Steel), Milton, Pa.
Hartman, Hay & Reis (62 Machines), Belleville, Ill.
Holland Mfg. Co. Co., Baltimore, Md.
Igoe Bros., Newark, N. J.
Judson Mfg. Co., San Francisco, Cal.
Kelly Nail & Iron Co. (120 Machines), Ironton, O.
Keystone Nail Co. (Galvanized), Pittsburg, Pa.
La Belle Iron Works (173 Machines), Steubenville, O.
Lessig, Geo. B. Co. (Iron & Steel), Pottstown, Pa.
Malleable Iron Fittings Co. ("Zinc Coated Iron), Branford, Conn.
Norton Iron Works (Inc.) (140 Machines), Ashland, Ky.
Old Dominion Iron & Nail Works Co. (Iron), (139 Machines), Richmond, Va.
Pickering, R. S., Sharon Hill, Pa.
Plymouth Mills, Plymouth, Mass.
Republic Iron & Steel Co., Pittsburg, Pa.
Tremont Nail Co. (150 Machines), West Wareham, Mass.
Van Alen & Co. (Iron & Steel), Northumberland, Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Williamsport Iron & Nail Co. (Iron & Steel), Williamsport, Pa.

## 7730— Nails (Finishing)

**AMERICAN STEEL & WIRE CO.** Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Corbin Screw Corporation (Smooth Steel Wire), New Britain, Conn
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Igoe Bros., Newark, N. J.
Kokoma Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville O.
Milwaukee Tack Co., Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
Tower Mfg. Co., Cincinnati, O.
Van Alen & Co. (Cut), Northumberland, Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wire Goods Co., Worcester, Mass.
Youngstown Sheet & Tube Co. (Smooth Finished), Youngstown, O.

## 7731— Nails (Foundry)

La Belle Iron Works (Large Head), Steubenville, O.
Merwin Mfg. Co. ("Erie," Large Head), Erie, Pa.

## 7732— Nails (Galvanized)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Hartman, Hays & Reis, Belleville, Ill.
Keystone Nail Co. (Cut & Wire), Pittsburg, Pa.
Malleable Iron Fittings Co. (Iron & Steel, Cut, Wire & Boat Nails, etc.), Branford, Conn.
Pittsburg Steel Co. (Wire, All Kinds), Pittsburg, Pa.
Youngstown Sheet & Tube Co., Youngstown, O.

## 7733—Nails (German Silver)

Hassall, Jno. (Inc.), Clay & Oakland, Brooklyn, N. Y.

## 7734— Nails (Gilt)

Ossawan Mills Co., Norwich, Conn.
**TURNER & SEYMOUR MFG. CO.**, Torrington Conn. (See adv. index, end of book)

## 7735—Nails (Hand Picked)

Hassall, Jno. (Inc.) (For Machine Driving), 45 Lafayette, New York

## 7736— Nails (Hoop)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Tack Works, Cleveland, O.
Igoe Bros., Newark, N. J.
La Belle Iron Works, Steubenville O.
Milwaukee Tack Co., Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Tower Mfg. Co., Cincinnati, O.
Wheeling Steel & Iron Co., Wheeling, W. Va.

## 7737— Nails (Horse)

Ausable Horse Nail Co., Keesville, N. Y.
Capewell Horse Nail Co., Hartford, Conn.
Christmas Bros., Eaton, Pa.
Coleman Nail Co., Pawtucket, R. I.
Essex Horse Nail Co. (Ltd.), Essex, N. Y.
Fowler Nail Co., Seymour, Conn.
Hoopeston Horse Nail Co., Hoopeston, Ill.
Kankakee Nail Co., Kankakee, Ill.
Livingston Nail Co., 512 E 23d, New York
Mooney, W. M. & Co., Au Sable Chasm, N. Y.
Putnam Nail Co., Neponset, Boston, Mass.
Standard Horse Nail Co. ("Brighton," "Russell," "Beaver," "Bright Shear Blue"), New Brighton, Pa.
Union Horse Nail Co. ("Northwestern"), 1524 W 22d, Chicago, Ill.

## 7738— Nails (Lead)

Hassall, Jno. (Inc.), Clay & Oakland, Brooklyn, N. Y.

## 7739— Nails (Leatherlike)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 7740— Nails (Numeral)

**TURNER & SEYMOUR MFG. CO.,** Torrington Conn. (See adv. index, end of book)

## 7741— Nails (Oxidized)

Baltimore Oxidized Nail Co., 215 S Central av, Baltimore, Md.

## 7742— Nails (Picture)

Ossawan Mills Co., Norwich, Conn.
Richards, T. C. Hardware Co., Winsted, Conn.
Shelton Co., Shelton, Conn.
**TURNER & SEYMOUR MFG. CO.,** Torrington Conn. (See adv. index, end of book)

## 7743—Nails (Roofing & Slating)

**AMERICAN STEEL & WIRE CO.** (Barbed, Felt, Slating, Shingle, etc.), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works (Slating), Cleveland, O.
Corbin Screw Corporation (Steel Wire; also Barbed), New Britain, Conn.
Crawfordsville Wire & Nail Co. (Barbed), Crawfordsville, Ind.
Crescent Machine Co. (Roofing), Detroit, Mich.
Grand Crossing Tack Co., S Chicago av & 79th, Grand Crossing, Ill.
Hassall, Jno. (Inc.) (Copper Wire), 45 Lafayette, New York
**HUNGERFORD, U. T. BRASS & COPper Co.** (Copper & Yellow Metal), 497 Pearl, New York
Hussey, C. G. & Co. (Slating Nails), 2850 2d av, Pittsburg, Pa.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Kokomo Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville, O.
Miller's, H. J. Sons Co. (Weatherproof Shingle), Bridgewater, Mass.
**MILWAUKEE CORRUGATING CO.** (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Milwaukee Tack Co. (Barbed Slating & Flat Head For Felt Roofing), Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Phillips, E. & Sons, So. Hanover, Mass.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
Pittsburg Steel Co. (Large Head), Pittsburg, Pa.
Pittsburg Steel Co. (Large Head Roofing), Pittsburg, Pa.
Seneca Wire & Mfg. Co. (Wire Roofing), Fostoria, O.
Sherman, H. B. Mfg. Co. ("Simplex" Roofing Nails), Battle Creek, Mich.
Taunton & New Bedford Copper Co., New Bedford & Taunton, Mass.
Tower Mfg. Co., Cincinnati, O.
Van Alen & Co., Northumberland, Pa.
Weather Proofing Nail Co., Inc. ("Capnal" Weather Proofing), Baltimore, Md.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wire Goods Co. (Barber Roofing), Worcester, Mass.
Youngstown Sheet & Tube Co. (Slating & Barbed Roofing), Youngstown, O.

## 7744—Nails (Rubber Headed)

Combination Rubber & Belting Co., Bloomfield, N. J.
Elastic Tip Co., 370 Atlantic av, Boston, Mass.

## 7745— Nails (Saddle & Lining)

Atlas Tack Co., Fairhaven, Mass.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
Shelton Co., Shelton, Conn.

## 7746— Nails (Screen)

**TURNER & SEYMOUR MFG. CO.,** Torrington Conn. (See adv. index, end of book)

## 7747—Nails (Screw Head)

Hassall, Jno. (Inc.), 45 Lafayette, New York
**ROEBLING'S, JOHN A. SONS CO.,** Trenton, N. J. Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)

## 7748— Nails (Shingle)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Corbin Screw Corporation, New Britain, Conn.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
La Belle Iron Works, Steubenville, O.
Malleable Iron Fitting Co. (Zinc Coated Iron), Branford, Conn.
Maze, W. H. & Co. (Solid Zinc), Peru, Ill.
Millers, H. J. Sons, Bridgewater, Mass.
Youngstown Sheet & Tube Co., Youngstown, O.

## 7749— Nails (Shoe)

Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works (Also Shoe Tacks), Cleveland, O.
Cross, W. W. & Co. (Inc.), Brockton, Mass.
Diamond Tack & Nail Wks., Raynham, Mass.
Globe-Taunton Nail Co. (Wire), Taunton, Mass.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Gurney, David B., Whitman, Mass.
Hobart, Benj. Co., Whitman, Mass.
Halland Mfg. Co., Baltimore, Md.
Judson Mfg. Co., San Francisco, Cal.
Kimball Bros. & Sprague, Brockton, Mass.
Millers', H. J. Sons (Shoe & Machine Shoe), Bridgewater, Conn.
Milwaukee Tack Co. (Iron, Steel & Zinc), Milwaukee, Wis.
Phillips, E. & Sons (Also Machine, Shoe, Brass & Copper Shoe), South Hanover, Mass.
River Co. (Brass), Waterbury, Conn.
Shelton Co., Shelton, Conn.
Tower Mfg Co., Cincinnati, O.

## 7750— Nails (Small)

(See also Tack Manufacturers)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works, Cleveland, O.
Cobb & Drew, Plymouth, Mass.
Corbin Screw Corporation, New Britain, Conn.
Fuller, G. E. & A. I., Keene, N. H.
Globe-Taunton Nail Co. (Wire), Taunton, Mass.
Hartman, Hays & Reis, Belleville, Ill.
Hassall, Jno. (Inc.), 45 Lafayette, New York
Holland Mfg. Co., Baltimore, Md.

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Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Kokomo Nail & Brad Co., Kokomo, Ind.
Kokomo Steel & Wire Co. (Wire), Kokomo, Ind.
Latty Mfg. Co., Ellicottville, N. Y.
Milwaukee Tack Co., Milwaukee, Wis.
Phillips, E. Sons (Iron, Steel, Copper, Brass & Zinc), S Hanover, Mass.
Rhodes, M. M. & Sons Co. (Upholstery), Taunton, Mass.
Ripley & Bartlett, Plymouth, Mass.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Shelton Co., Shelton, Conn.
Stanley, Geo. W. Co., Belleville, Ill.
Superior Tack & Nail Co. (Cut), Derby, N. Y.
Torrington Mfg. Co. (Furniture), Torrington, Conn.
Tower Mfg. Co. (Basket Hoop, etc.), Cincinnati, O.
**TURNER & SEYMOUR MFG. CO. (Furniture, etc.)**, Torrington, Conn. (See adv. index, end of book)
Wheeling Steel & Iron Co., Wheeling, W. Va.
York Tack & Nail Works (Cut), York, Pa.

## 7751— Nails (Special)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Hassall, Jno. (Inc.), Clay & Oakland, Brooklyn,
La Belle Iron Works, Steubenville, O. N. Y.
Wheeling Steel & Iron Co., Wheeling, W. Va.

## 7752— Nails (Stay)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

## 7753— Nails (Tie Dating)

Western Railway Equipment Co., St. Louis, Mo.

## 7754— Nails (Tobacco)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Corbin Screw Corporation, New Britain, Conn.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Norton Iron Works, Ashland, Ky.
Youngstown Sheet & Tube Co., Youngstown, O.

## 7755— Nails (Trunk)

Cleveland Tack Works, Cleveland, O.
Diamond Tack & Nail Works, Raynham, Mass.
Holland Mfg. Co., Baltimore, Md.
Milwaukee Tack Co., Milwaukee, Wis.
Shelton Co., Shelton, Conn.
Superior Tack & Nail Co., Derby, N. Y.
Tower Mfg. Co., Cincinnati, O.

## Nails (Upholsterers')

(See Tacks, Upholsterers')

## 7756— Nails (Wire)

**AMERICAN STEEL & WIRE CO.** ("Standard" Miscellaneous), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlanta Steel Co., Atlanta, Ga.
Atlas Tack Co. (And Wire Tacks), Fairhaven, Mass.
Badger Nail Co., Milwaukee, Wis.
Baker, Chas. F. & Co., 48 Lincoln, Boston,
Belfont Iron Works Co., Ironton, O. Mass.
Cedarburg Wire & Wire Nail Co. (Sizes ¼ to 4 in.), Cedarburg, Wis.
Colorado Fuel & Iron Co., Denver, Colo.
Corbin Screw Corporation (Steel), New Britain, Conn.
Crawfordsville Wire & Nail Co. (All Sizes), Crawfordsville, Ind.
Globe-Taunton Nail Co. (Small), Taunton, Mass.
Grand Crossing Tack Co. (All Sizes), 79th & S Chicago av, Chicago, Ill.
Griswold Co. (All Sizes), Sterling, Ill.
Gurney, D. B. (Sizes up to 20 Penny; 333 Machines), Whitman, Mass.
Hartman, Hays & Reis, Belleville, Ill.
Hassall, Jno. (Inc.), 45 Lafayette, New York
Illinois Nail Co., 826 Dix, Chicago, Ill.
Indiana Steel & Wire Co., Muncie, Ind.
Janesville Barb Wire Co. (2 to 60 Penny), Janesville, Wis.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kelly Nail & Iron Co., Ironton, O.
Keystone Nail Co. (Galvanized), Pittsburg, Pa.
Keystone Steel & Wire Co., Peoria, Ill.
Kokomo Steel & Wire Co., Kokomo, Ind.
McCrory, John, Ellwood City, Pa.
Milwaukee Tack Co. (Small Only), Milwaukee,
Morgan Spring Co., Worcester, Mass. Wis.
Norton Iron Works (50 Machines), Ashland,
Parker Wire Goods Co., Worcester, Mass. Ky.
Phillips, Townsend & Co. (All Sizes), N 4th & Glenwood av, Phila., Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Steel Co., Pittsburg, Pa.
Plymouth Mills (Small), Plymouth, Mass.
Southern Iron & Steel Co., Birmingham, Ala.
Spencer Wire Co., Worcester, Mass.
Stanley, Geo. W. Co. (Small Wire & Cut), Belleville, Ill.
Superior Tack & Nail Co., Derby, N. Y.
Titchener, E. H. & Co. (Up to 3-inch), Bing-
Tower Mfg. Co., Cincinnati, O. hamton, N. Y.
Van Alen & Co., Northumberland, Pa.
Wire Goods Co. (All Sizes & Kinds); 100 Machines), Worcester, Mass.
Wickwire Bros. (Inc.). Cortland, N. Y.
Youngstown Sheet & Tube Co., Youngstown, O.

## 7757— Nails (Zinc Coated)

Malleable Iron Fittings Co. ("M. I. F. Co."), Branford, Conn.

## 7758—Nails & Studs (Ornamental)

Yale & Towne Mfg. Co., 9 Murray, New York

## 7759— Name Plates

American Name Plate & Mfg. Co., 15 W Michigan, Chicago, Ill.
**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl., New York. (See adv. index, end of book)
Ashberg, Henry Co., Buffalo, N. Y.
Becker, August Engraving Co. (Cast), 247 Atlantic av. Boston. Mass.
Blake Mfg. Co. (Bicycle, etc.), Springfield, Mass.
**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)
Corbin Cabinet Lock Co. (Wrought, Brass, etc.), New Britain, Conn.
Crowe Name Plate & Engraving Co., 1749 Grace, Chicago, Ill.
Eastwood Wire Mfg. Co. (Bronze Finish), Belleville, N. J.
Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
Enameled Steel Sign Co., 12 State, Chicago, Ill.
G. & P. Engraving Co., Wollaston, Mass.
Grammes, L. F. & Sons, Allentown, Pa.
Kautz, Fred C. & Co., 2633 Lake, Chicago, Ill.
Kokomo Fence Machine Co. (Nickel & Aluminum), Kokomo, Ind.
Krizan & Hill (Etched), 521 E 72d, New York
Limerick, J. Arthur Co., Baltimore, Md.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
Mulhaupt, F. Jos., Lafayette, Ind.
Newark Brass Plate Engraving Co. (Etched), Newark, N. J.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Norwalk Lock Co., South Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Robbins, John Mfg. Co., Boston, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.
Salo Art Metal Co., Binghamton, N. Y.
Schmidt, Geo. T., 152 Lake, Chicago, Ill.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith, Jos. N. & Co., Detroit, Mich.
Torrey Roller Bushing Works, Bath, Me.
Turner Brass Works, Sycamore, Ill.
Union Porcelain Works, 300 Eckford, Brooklyn, N. Y. (Sign & Number Plates, Porcelain)
Waterbury Etching Co. (Etched Brass). Waterbury, Conn.
Western Brass Mfg. Works (In Different Names), 21st & Rockwell, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.
Woodman, R. Mfg. & Supply Co., 63 Oliver, Boston, Mass.
Wright, Gregory G. & Son, Cincinnati, O.

## 7760—Name Plates (Automobile)

Abbott, W. H., 143 W 42nd, New York
American Name Plate & Mfg. Co., 15 W Michigan, Chicago, Ill.
**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)
Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Imperial Brass Mfg. Co., 444 S Jefferson, Chi-
Krizan & Hill, 521 E 72d. New York cago, Ill.
Salo Art Metal Co., Binghamton, N. Y.
Shonk, Chas W. Co., Maywood, Ill.
Turner Brass Works, Sycamore, Ill.

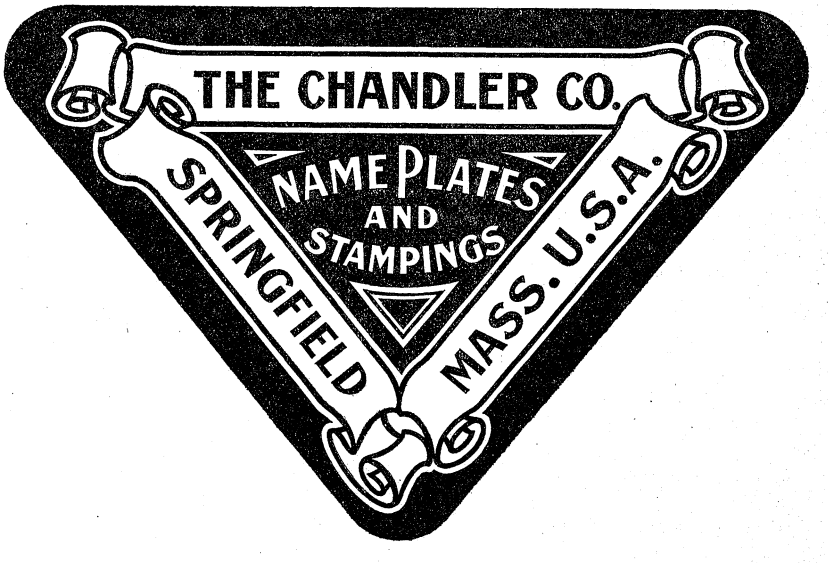
## 7761—Name Plates (Cement Sidewalk)

Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
Kramer Bros. Foundry Co., Dayton, Ohio
Schmidt, Geo. T. (Brass), 152 Lake, Chicago, Ill.

## 7762—Name Plates (Machinery)

(See also Name Plates)

American Name Plate & Engraving Co., 352 Atlantic av., Boston. Mass.
American Name Plate & Mfg. Co., 15 W Michigan, Chicago, Ill.
Ashberg, Henry Co., Buffalo, N. Y.
Becker, August Engraving Co. (Cast), 247 Atlantic av, Boston, Mass.
Boyd, Geo. A. Co., 552 W B'way, New York
**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)




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Crowe Name Plate & Engraving Co. (Also Carriage), 1749 Grace, Chicago, Ill.
Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
Everett, A. & Son, Auburn, N. Y.
G. & P. Engraving Co., Wollaston, Mass.
Grammes, L. F. & Sons, Allentown, Pa.
Haeusermann Metal Mfg. Co., 1098 Brooks av, New York
Imperial Brass Mfg. Co., 444 S Jefferson, Chi-
Krizan & Hill, 521 E 72d, New York cago, Ill.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Salo Art Metal Co., Binghamton, N. Y.
Shonk, Chas W. Co., Maywood, Ill.
Torrey Roller Bushing Works (Cast), Bath, Me.
Turner Brass Works, Sycamore, Ill.

## 7763—Name Plates (Telephone)

Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Salo Art Metal Co., Binghamton, N. Y.
Shonk, Chas W. Co., Maywood, Ill.

## 7764— Naphtha (Coal Tar)

Barrett Mfg. Co., 17 Battery pl, New York
National Aniline & Chemical Co., 100 William, New York

## 7765— Naphtha Gas

Sun Oil Co., Toledo, O.

## 7766— Naphtha Refiners

Barrett Mfg. Co. (Naphthaline), 17 Battery pl, New York
Craig Oil Co., Toledo, Ohio
Crew-Levick Co., Land Title bldg., Phila., Pa.
Day Chemical Co. (Wood Naphtha), Westline, Pa.
Great Western Oil Co., Cleveland, O.
Gulf Refining Co. (Engines, Painters, etc.), Pittsburg, Pa.
**INDIAN REFINING CO., 123 William**, New York. (See adv. index & branch offices, end of book)
Miller's, A. D. Sons Co., N S, Pittsburg, Pa.
National Refining Co., Cleveland, O.
Paragon Refining Co., Toledo, O.
Penn Refining Co., Oil City, Pa.
Petroleum Co., Cincinnati, Ohio
Standard Oil Co., 555 W 25th, New York
Sun Co. (56 Gravity Deodorized), Real Estate Trust Co. bldg, Phila., Pa.
Sunlight Oil & Gasoline Co., 49th & Gray's av, Phila., Pa.
Texas Co. ("Texaco," Safety Varnish), 17 Battery pl, New York
Union Petroleum Co., 138 S 2d, Phila., Pa.
Waverly Oil Works, Pittsburg, Pa.

## 7767—Naphtha (Solvent)

United Gas Improvement Co., Phila., Pa.

## 7767a—Naval Cooperage for Vessels

**BALTIMORE COOPERAGE CO., THE**, cor. Hanover & Creek, Baltimore, Md (See adv. index, end of book)

## 7768— Nebulizers

Globe Mfg. Co., Battle Creek, Mich.
Turner Brass Works ("Eureka"), Sycamore, Ill

## 7768a— Neck Yoke Bands

Wrought Washer Mfg. Co. (Steel), Milwaukee, Wis.

## 7769— Neck Yokes

Adams, E. B. & Son ("Adams" Safety), Racine, Wis.
American Hame & Mfg. Co. (Wagon), New Albany, Ind.
Anderson Pole & Shaft Co., Anderson, Ind.
Boub & Schen, Cincinnati, O.
Buckeye Handle, Gear & Bending Co., Alliance, O.
Buckeye Mfg. Co., Anderson, Ind.
Burton Handle Co., Burton, O.
Canton Pole & Shaft Co., Canton, O.
Covert Mfg. Co., Troy, N. Y.
Coverts Saddlery Works, Interlacken, N. Y.
Diamond Forging & Mfg. Co. (Tubular Steel), N S, Pittsburg, Pa.
Fee-Crayton Hardwood Lumber Co., Little Rock, Ark.
Hanover Plow Handle Co., Hanover, Pa.
Hartwell Bros., Chicago Heights, Ill.
Hanover Plow Handle Co., Hanover, Pa.
Hartwell Bros., Chicago Heights, Ill.
Hench & Dromgold Co., York, Pa.
Johnson, F. C., Stillman Valley, Ill.
Jones, K., Janesville, Wis.
McCall Mfg. Co., Moberly, Mo.
Oshkosh Mfg. Co., Oshkosh, Wis.
Peterson, Samuel, Warren, Pa.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Racine Pole & Shaft Co., Racine, Wis.
Reno Mfg. Co., Erie, Pa.
Sheldon, Mason, Kinzura, Pa.
Shull Whiffletree Co., Hobart, Ind.
Sidney Pole & Shaft Co., Sidney, O.
Sovereign, C. E. Co. ("Rockford", "Schuman's" Swivel), Rockford, Ill.
Tanner, D. E., Holland, N. Y.
Thompson-Bassett Co. (Steel), Ypsilanti, Mich.
United States Pressed Steel Co. (Pressed Steel), Ypsilanti, Mich.
Von Behren Mfg. Co., Evansville, Ind.
Ziegler, Neckyoke Co., Coffeyville, Kan.
Zimmerman, J. N., Birmingham, Mich.

## Needle Mfrs.

See Needles, Various Kinds, under head of Textile Machinery, Supplies, Etc.)

## 7770—Needles (Hypodermic, Dental, Etc.)

Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## Needles (Mining)

(See Miners' Needles & Scrapers)

## 7771—Needles (Phonograph)

(See Needles, Talking Machine)

## 7772—Needles (Pyrographic)

Solar Pyro Mfg. Co., 621 B'way, New York

## 7773—Needles (Talking Machine)

B. & H. Fibre Mfg. Co. (Wooden), 35 W Kinzie, Chicago, Ill.
Hawthorne & Sheble Mfg. Co., Howard & Jefferson, Phila., Pa.

## Nets (Arc Globe)

(See Guards, Electric Lamp)

## 7774— Nets (Fish Landing)

Young, Carlos G. ("Barnes", Folding), San Francisco, Cal.

## 7775— Nets (Life Saving)

Combination Ladder Co. ("Manhattan"), Providence, R. I.
Hayward, S. F. & Co., 39 Park pl, New York
Woodhouse Mfg. Co., 50 W B'way, New York

## 7776— Netting (Mosquito)

McLean, Andrew Co., Passaic, N. J.
North Scituate Cotton Mills, N. Scituate, R. I.
Palmer, I. E. Co., Middletown, Conn.

## 7776a— Netting (Spark)

**WRIGHT WIRE CO., Worcester**, Mass. (See adv. index & branch offices, end of book)

## 7777— Neutralizer (Electric)

Portland Co. ("Chapman," to Remove Static Electricity), Portland, Me.

## 7777a— Nickel (Aluminized)

**NEW ERA MFG. CO., Kalamazoo**, Mich. (See adv. index, end of book)

## 7778— Nickel Mfrs.

**DRIVER-HARRIS WIRE CO. (Sheet**, Wire & Ribbon), Harrison, N. J. (See adv. index & branch offices, end of book)
International Nickel Co., 43 Exchange pl, New York

## 7779—Nickeloid, Copperoid, Brassoid & Steeloid

American Nickeloid Mfg. Co. (Nickelized Sheet Steel, Zinc, Copper, Brass, etc.), Peru, Ill.

## 7780— Nippers (Bicycle)

Scovill Mfg. Co., Waterbury, Conn.
**STARRETT, L. S. CO. (Adjustable Jaw)**, Athol, Mass. (See adv. index & branch offices, end of book)
Utica Drop Forge & Tool Co., Utica, N. Y.

## 7781—Nippers (Blacksmiths')

**BUFFUM TOOL CO. (Hoof Paring**, Nail Cutting, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)
Champion Tool Co. ("Champion" Nail Head), Meadville, Pa.
Germantown Tool Works, 521 Market, Phila.,
Heller Tool Co., Newark, N. J. Pa.
Smith, H. D. & Co. ("W. D. W.", Drop Forged), Plantsville, Conn.
Starr-Nettleton Mfg. Co., East Hampton, Conn.
Vaughan & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
Washington Tool Co. ("Larson's"), Owatonna, Minn.

## 7782—Nippers (Champagne)

Osborne, C. S. & Co., Harrison, N. J.

## 7783— Nippers (Cutting)

**Bridgeport Hardware Mfg. Co. ("Hercules"), Bridgeport, Conn.**
Champion Tool Co. ("Champion"), Meadville, Pa.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Falls Mfg. Co., San Francisco, Cal.
Heller Bros. Co., Newark, N. J.
Hotchkiss, T. D. Co., Deep River, Conn.
Hubbard & McClary, Windsor, Vt.
Irvington Mfg. Co., Irvington, N. J.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kilborn & Bishop Co. (Drop Forged End Cutting), New Haven, Conn.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Sayre, L. A. & Co., Newark, N. J.
Schollhorn, Wm. Co. ("Bernard" End Cutting), New Haven, Conn.
Smith, Otis A. (End Cutting), Rockfall, Conn.
**SMITH & HEMENWAY CO. ("Red Devil", "Samson")**, 150 Chambers, New York. (See adv. index, end of book)
Starr-Nettleton Mfg. Co. ("Nettleton" Reversible), East Hampton, Conn.
**STARRETT, L. S. CO. (Adjustable Jaw)**, Athol, Mass. (See adv. index & branch offices, end of book)
Utica Drop Forge & Tool Co. ("Hall's", "Bull Dog", End Cutting, "Utica", End & Compound End Cutting), Utica, N. Y.
Vaughan & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
Williams, A. C. Co., Ravenna, O.

## 7784— Nippers (Fruit)

Kraeuter & Co., Newark, N. J.

## 7785—Nippers (Tinners', Etc.)

Hotchkiss, T. D. Co. ("Todd's"), Deep River, Conn.
Osborne, C. S. & Co., Harrison, N. J.
Robinson, M. W. Co. ("Carew's"), 79 Chambers, New York
Smith, Otis A., Rockfall, Conn.
**SMITH & HEMENWAY CO.** ("Smith's"), 150 Chambers, New York. (See adv. index, end of book)
Starr-Nettleton Mfg. Co., East Hampton, Conn.
Wiebusch & Hilger ("Acme"), 106 Lafayette, New York
Wisterbarth Bros., Meriden, Conn.

## 7786— Nipples (Hose)

Boston Woven Hose & Rubber Co., Cambridge, Mass.
Claflin, Chas. A. & Co. ("Sure-Hold" Nipple & Clamp Combined), 60 High, Boston, Mass.
Dayton Malleable Iron Co. (Air Brake), Dayton, O.
Elkhart Brass Mfg. Co., Elkhart, Ind.
Hayward, S. F. & Co., 39 Park pl, New York
Howell, F. R. Brass Works, 122 N Franklin, Phila, Pa.
Knox Mfg. Co. (Pneumatic Hose), 704 Arch, Phila, Pa.
**McRAE & ROBERTS CO., 227 Campbell** av, Detroit, Mich. (See adv. index, end
Powell, Wm. & Co., Cincinnati, O. of book)
Queen City Brass & Iron Works, Cincinnati, O.
Schrader's, A. Son (Inc.), 30 Rose, New York
Sherman, H. R. Mfg. Co., Battle Creek, Mich.
Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.

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## 7787—Nipples (Long Screws & Followers)

National Tube Co., Pittsburg, Pa.

## 7788— Nipples (Pipe)

Central Tube Co., Pittsburg, Pa.
Crane Valve Co., Bridgeport, Conn.
Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.
General Fire Extinguisher Co., Providence, R. I.
Kelly & Jones Co. (Wrought Iron, Brass, etc.), Pittsburg, Pa.
Landis Machine Co., Waynesboro, Pa.
Limbert, Geo. B. & Co. (Malleable Iron, etc.), 559 Fulton, Chicago, Ill.
**LUNKENHEIMER CO. (Brass), General** Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
National Tube Co. (Brass, Malleable & Wrought Iron Casing, "R. & L." Hexagon Drainage Tank, etc.), Pittsburg, Pa.
Newark Tube & Metal Works (Small Sizes), Newark, N. J.
Pfaff & Kendall (Wrought Iron), Ferry & Foundry, Newark, N. J.
Standard Nipple & Tool Co. (From ½ to 12 in.), West Newton, Pa.
Wilder, Sidney & Co. (Brass), Holliston, Mass.

## 7789— Nipples (Radiator)

National Radiator Co. (Non-Corrosive Malleable Iron Push), Johnstown, Pa.
Pratt Chuck Co., Frankfort, N. Y.
Sparks, Withington Co., Jackson, Mich.

## Nipples (Soldering)

(See Unions & Nipples, Soldering)

## 7790—Nipples (Zinc Coated, Steel Slip)

Pratt Chuck Co., Frankfort, N. Y.

## 7791— Nitrate

Butterworth-Judson Co. (Ammonia, Iron, etc.), Newark, N. J.
**Cochrane Chemical Co. (Iron & Copper), Boston, Mass**
General Chemical Co. (Iron & Copperas), 25 Broad, New York
**Harrison Bros. & Co. (Inc.) (Of Lead & Soda), 35th & Gray's Ferry rd, Phila., Pa.**
Mallinckrodt Chemical Works, St. Louis, Mo.
**Sholes, Chas. E. Co. (Iron, Coper, Lead, etc.), 164 Front, New York**
Tennant, C. Sons Co. (Of Lead), 76 William, New York

## 7792— Nitrate of Soda

American Agricultural Chemical Co., 2 Rector, New York
Armour Fertilizer Works, Chicago, Ill.
Baker, H. J. & Bro., 100 William, New York
Buffalo Fertilizer Co., Buffaol, N. Y.
Burrcughs, Jas. S. & Co. (Brokers), 56 Pine, New York
Grasselli Chemical Co. (Exporters & Importers), Cleveland, O.
Heller, Hirsh & Co. (Brokers), 62 William, New York
Innis, Speiden & Co. (Brokers), 46 Cliff, New York
Lang, J. M. & Co. (Brokers), Savannah, Ga.
Mortimer & Wisner (Brokers), 68 Beaver, New York
New Orleans Acid & Fertilizer Co., New Orleans, La.
Nitrate Agencies Co., 24 Stone, New York
Peters-White & Co. (Importers), 92 William, New York
Planters' Fertilizer & Phosphate Co., Charleston, S. C.
Royster, F. S. Guano Co., Norfolk, Va.
Standard Guano & Chemical Mfg. Co., New Orleans, La.
Swift & Co., Union Stock Yards, Chicago, Ill.
Virginia-Carolina Chemical Co., Richmond, Va.
Walter, Edw. J. Co. (Brokers), Baltimore, Md.
Wessel, Duval & Co. (Direct Importers), 25 Broad, New York

## 7792a— Nitrocellulose

**INTERNATIONAL SMOKELESS POWder & Chemical Co., 140 Cedar, New York.**

## 7792b— Nitroglycerin

**du PONT, E. I., de NEMOURS POW**der Co. (Also Solidified Nitroglycerin), Wilmington, Del. (See adv. index & branch offices, end of book)

## 7793— Nodulizing Plants

Ladd & Baker, Inc. (Engines, etc.), 1011 Chestnut, Phila., Pa.

## 7794— Nails (Ramie)

Wolf, W. & Sons (India & China Cotton Silk), Boston, Mass.

## 7794a—Nosing (Steel Curb)

Aberdeen Company ("Hercules"), 20 Broad, New York

## 7795— Notches (Cinder)

Best Mfg. Co., Pittsburg, Pa.
Keystone Bronze Co., Pittsburg, Pa.
Sweet-Harwood Co. (For Blast Furnaces), 2401 W 22d, Chicago, Ill.

## 7796— Notifiers (Burglar)

McCormick Mfg. Co., Dayton, O.

## 7797—Novelties (Aluminum)

(See Firms in Metal Novelties & Specialties with the Word Aluminum Following their Name)

## 7798— Nozzles (Blast)

Schutte & Koerting Co. (For Chimneys), 1251 N 12th, Phila., Pa

## 7799— Nozzles (Chemical)

Hayward, S. F. & Co., 39 Park pl, New York
Sieben Mfg. Co. ("Fire King"), Kansas City, Mo.

## 7800—Nozzles (Flanged Boiler, Forged Steel)

**AMERICAN SPIRAL PIPE WORKS, W.** 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)
Kellogg, M. W. Co., 50 Church, New York
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)

## 7801— Nozzles (Hose)

Allen, W. D. Mfg. Co. (Spray), 151 Lake, Chicago, Ill
American Foundry & Mfg. Co., St. Louis, Mo.
Barnes Mfg. Co., Mansfield, O.
Belknap Mfg. Co. ("Boss"), Bridgeport, Conn.
Boston Coupling Co. ("Haley"), Boston, Mass.
Boston Woven Hose & Rubber Co. ("Boston"), Cambridge, Mass.
Callahan, C. Co., Boston, Mass.
Clay, Jno. H., 1320 Ridge av, Phila., Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co. ("Gem"), Bridgeport, Conn.
Eastman, Samuel & Co., East Concord, N. H.
Elkhart Brass Mfg. Co. ("Firemans Pet," "Elk," Shut-off), Elkhart, Ind.
Fabric Fire Hose Co., Church & Duane, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farnan Brass Works, Cleveland, O.
Federal Brass Works (Fire Hose & Underwriters), 225 W Illinois, Chicago, Ill.
Hardware Supply Co., Grand Rapids Mich.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Hayward, S. F. & Co., 39 Park pl, New York
Howell, F. R. Brass Works, 122 N Franklin, Phila, Pa.
Kelly & Jones Co. ("S. S. S."), Pittsburg, Pa.
Knox Mfg. Co. (Malleable Iron), 704 Arch, Phila, Pa.
Landers, Frary & Clark (Inc.) ("Fairy" & "Climax"), New Britain, Conn
Loeffelholz Co. (Combination & Judge Distributing), 170 Clinton, Milwaukee, Wis
McCormick Mfg. Co. ("Nixon-Climax"), Dayton, O.
Morse, Andrew J. & Son (Inc.), ("Morse," "Monitor"), 221 High Boston, Mass.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Neumeyer, H. F. ("New"), Macungie, Pa.
Peck Bros. & Co., New Haven, Conn.
Schrader, A. Son (Inc.), 30 Rose, New York
Sherman, H. B. Mfg. Co. ("Diamond"), Battle Creek, Mich.
Sieben Mfg. Co. ("Fire King", with Chemical Cartridge in Nozzle for Fire Disinfecting, etc.), Kansas City, Mo.
**SIMMONS, JOHN CO., 104 Centre,** New York (See adv. index, end of book)
Standard Brass & Iron Works (Heavy for Brewers, etc.), Milwaukee, Wis.
Stuber & Kuck, Peoria, Ill.
Universal Nozzle Co., Indianapolis, Ind.
Walker Hose Clamp Co., Battle Creek, Mich.
Wolverine Brass Works, Grand Rapids, Mich.

## 7802—Nozzles (Hydraulic Mining)

**AMERICAN SPIRAL PIPE WORKS, W.** 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)

## 7803— Nozzles (Plumbago)

Bartley, Jonathan, Crucible Co., Trenton, N. J.
McCullough-Dalzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburg, Pa.
Stevens, Frederic B., Detroit, Mich.

## 7804— Nozzles (Spray)

Allen, W. D. Mfg. Co. ("Mystic"), 151 Lake, Chicago, Ill.
Ansonia Mfg. Co., 30 Church, New York
Buffalo Forge Co ("Buffalo"), Buffalo, N. Y.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Elkhart Brass Mfg. Co. ("Elkhart"), Elkhart, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hayward, S. F. & Co., 39 Park pl., New York
Loeffelholz Co. ("Foley," Solid Stream, Shut Off & Spray), Milwaukee, Wis.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Niagara Sprayer Co. ("Scientific," for Spraying Trees, etc.), Middleport, N. Y.
Schutte & Koerting Co. ("Koerting" for Mines, Chemicals, etc.), 12th & Thompson, Phila., Pa.
Stuber & Kuck, Peoria, Ill.

## Numbers & Letters (Decalcomania)

(See Ornaments, Transfer)

## 7805—Numbers & Letters (Metal)

(See also Name Plates)

**AMERICAN RAILWAY SUPPLY CO., 26** Park pl, New York. (See adv. index, end of book)
**ARCADE MFG. CO. (House Num**bers, Brass & Aluminum), Freeport, Ill. (See adv. index, end of book)
Blasier, M. E. & Co., Utica, N. Y.
Benfield & Milne Mfg. Co., Newark, N. J.
Brass Goods Mfg. Co., Nevin, c Union, Brooklyn, N. Y.
Brim, A. W., Seneca Falls, N. Y.
**CANTON MFG. CO., Canton, O. (See** (See adv. index, end of book)
Chicago Spring Butt Co. ("16th Century" House), 334 Union Park pl, Chicago, Ill.
Griswold Mfg. Co., Erie, Pa.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Hutchins Mfg. Co. (Aluminum, Brass & Antique Copper Oxidized), Buffalo, N. Y.
Kienzle & Kuhles, 319 W Ohio, Chicago, Ill.
Knight, H. W. & Son, Seneca Falls, N. Y.
Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
Miller, J. Walter (House), Lancaster, Pa.
Mulhaupt, F. Jos., Lafayette, Ind.
**NIAGARA FALLS METAL STAMPING** Co. (Automobile, House, etc.), Niagara Falls, N. Y. (See adv. index, end of book)
Nicol & Co. (House Numbers Only), 218 N Jefferson, Chicago, Ill.
Norwalk Lock Co., South Norwalk, Conn.
Payson Mfg. Co. (House Numbers), 2918 Jackson boul, Chicago, Ill.
Providence Brass & Aluminum Co., Providence, R. I.
Reading Hardware Co., Reading, Pa.
Reynolds & Zahn Co., Newark, N. J.
Robbins, Jno. Mfg. Co., Boston, Mass.
Russell & Erwin Mfg. Co. (Steel), New Britain, Conn.
Sackman Mfg. Co. (Inc.) (Steel), Akron, O.

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Shanafelt Mfg. Co. (Pattern, "White Metal"), Canton, O.
**SMITH, F. P. WIRE & IRON WKS.,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith, R. H. Mfg. Co., Springfield, Mass.
**SMITH & HEMENWAY CO. (Aluminum** Hose & Automobile Numbers, etc.), 150 Chambers, New York. (See adv. index, end of book)
**Stover** Mfg. Co., Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
Turner Brass Works, Sycamore, Ill.
**TURNER & SEYMOUR MFG. CO. (House** Numbers Only), Torrington, Conn. (See **adv. index, end of book)**
Western Brass Mfg. Works (Cast Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wilcox, Crittenden & Co. (Brass), Middletown, Conn.
Zeigler Bros., Elgin, Ill.

## 7806—Nut Crackers & Picks

Acme Shear Co., Bridgeport, Conn.
American Cutlery Co., 764 Mather, Chicago, Ill.
**ARCADE MFG. CO. ("Arcade",** "Standard" & "Universal," Crackers Only), Freeport, Ill. (See adv. index, end of book)
**Bridgeport** Hdw. Mfg. Co. ("Leader"), Bridgeport, Conn.
Browne & Dowd Mfg. Co. (Crackers Only), Meriden, Conn.
Caldwell Mfg. Co., Rochester, N. Y.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Garfield & Co., Cleveland, O. Chicago, Ill.
Humanson & Beckley Mfg. Co., New Britain, Conn.
International Silver Co., 9 Maiden Lane, New York
Jennings Bros. Mfg. Co., Bridgeport, Conn.
Landers, Frary & Clark (Inc.), New Britain, Conn.
Lee, F. E. Hardware Mfg. Co., Hartford, Conn.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co. (Nut Crackers Only), Harrison, N. J.
Peck, Stow & Wilcox Co., 27 Murray, New York
Quackenbush, H. M., Herkimer, N. Y.
Reading Hdw. Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Williams, A. C., Ravenna, O.

## Nut-Locks

(See Lock-Nuts & Washers)

## Nut Machinery

(See Machinery, for Various Kinds of Nut Machinery)

## 7807— Nut Mfrs.

(Under this Head see Sub-classifications following)

(See also Bolt, Nut & Rivet Manufacturers)

Aetna Nut Co., Southington, Conn.
American Car & Foundry Co. (Square & Hexagon), 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
American Screw Co., Providence, R. I.
Anthony Screw Co., Worcester, Mass.
Armstrong & Parker, 361 North, Baltimore, Md.
Ballard Drop Forge Co., Ballard, Seattle, Wash.
Berry Bros., Columbus, O.
Bourne & Knowles Mfg. Co., Cleveland, O.
Brightman Hammered Nut & Mfg. Co. (Hexagon from Cold Drawn Bars & Shapes), Sandusky, O.
California Industrial Co., Los Angeles, Cal.
Cambria Steel Co., Johntown, Pa.
Central City Bolt Co., Syracuse, N. Y.
Central Iron & Steel Co., Brazil, Ind.
Champion Mfg. Co., 7332 Kimbark av, Chicago, Ill.
Chicago Nut Co., 617 W Jackson boul, Chicago, Ill.
Chicago Screw Co., 1026 S Homan av, Chicago,
Clark Bros. Bolt Co., Milldale, Conn. Ill.
Cold-Jess Mfg. Co., Cleveland, O.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union Chicago, Ill.
Delaware Marine Supply Mfg. Co., Wilmington, Del
Dyson, Jos. & Sons (Square & Hexagon), Cleveland, O.
Eastern Bolt & Nut Co., Providence, R. I.
Eberhard Mfg. Co., Cleveland, O.
Equipoise Rivet Co., Waterbury, Conn.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Greenlie, Wyatt & Co., 499 Water, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hendricks Bros., 49 Cliff, New York
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanman, E. B. Co., Columbus, O.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, Matthew & Sons, Pittsburg, Pa.
McCloud, Crane & Minter Co., Worcester, Mass.
Meyer & Co. (Iron), Auburn, N. Y.
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moore, Franklin Co., Winsted, Conn.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
National Elastic Nut Co., Milwaukee, Wis.
National Screw & Tack Co., Cleveland, O.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Phosphor Bronze Smelting Co., 2200 Washington av, Philadelphia, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Rhode Island Tool Co., Providence, R. I.
Richards, T. C. Hdw. Co., Winsted, Conn.
Rochester Machine Screw Co., Rochester, N.Y.
Rockford Bolt Works (Inc.), Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
Russell & Erwin Mfg. Co., New Britain, Conn.
St. Louis Screw Co., 600 E Clarence av, St. Louis, Mo.
Screw Machine Products Corporation, Providence, R. I.
Smith, Thos. & Co., Worcester, Mass.
Steel Car Forge Co., Pittsburg, Pa.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, O.
Wheeling Hinge Co., Wheeling, W. Va.
Youngstown Mfg. Co., Youngstown, O.

## Nut Picks

(See Nut Crackers & Picks)

## Nut Tappers

(See Nut Tapping Machines)

## 7807a—Nuts (A. L. A. H. Standard, Plain & Castellated)

**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

## 7808— Nuts (Bicycle)

Chicago Screw Co., 1026 S Homan av, Chicago,
Clark Bros. Bolt Co., Milldale, Conn. Ill.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Hill, Geo. & Co., 32 Dorchester av, Boston, Mass.
McCloud, Crane & Minter Co., Worcester, Mass.
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y., & Rock Falls, Ill.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio.
Western Automatic Machine Screw Co., Elyria, Ohio

## 7809— Nuts (Brass Bonnet)

**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 7810— Nuts (Brass Cap)

Chicago Nut Co., 617 W Jackson boul, Chicago, Ill.
Corbin Screw Corporation (Acorn Cap or Blank Brass, Bronze, Iron or Steel), New Britain, Conn.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Standard Screw Co., 6 Madison, Chicago, Ill.
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.,** 124 N 6th, Phila, Pa. (See adv. index, end of book)
Western Automatic Machine Screw Co., Elyria, Ohio

## 7811—Nuts (Brass, Hexagon)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
Peninsular Milled Screw Co., Detroit, Mich.
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)

## 7812—Nuts (Brass & Copper)

American Pin Co. (Brass Only), Waterbury,
Ansonia Mfg. Co., Ansonia, Conn. Conn.
Atlas Bolt & Screw Co., Cleveland, O.
Blake & Johnson Co. (To Order), Waterbury, Conn.
Brightman Hammered Nut & Mfg. Co. (Brass Hexagon), Sandusky, O.
Central City Bolt Co., Syracuse, N. Y.
Chicago Nut Co. (Brass Only), 617 W Jackson boul, Chicago, Ill.
Corbin Screw Corp., New Britain, Conn.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Equipoise Rivet Co. (Brass for Plumbers' Use), Waterbury, Conn.
Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York

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International Brass & Electric Co. (Brass Hexagon, Machine Made), 76 Beekman, New York
**NATIONAL-ACME MFG. CO. (Brass Only)**, 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
Pheoll Mfg. Co. (Brass), 214 N Carpenter, Chicago, Ill.
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
Rockford Bolt Company (Brass), Rockford, Ill.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
**SONNENSCHEIN, JACOB (Mfrs. Agt.),** 14 W 8th, New York (See adv. index, end of book)
Western Automatic Machine Screw Co., Elyria, Ohio

## 7813—Nuts (Case Hardened)

American Iron & Steel Mfg. Co. (Finished), Lebanon & Reading, Pa.
Anthony Screw Co. (Finished, Check, Planer, etc.), Worcester, Mass.
Boston Bolt & Iron Co. (Hexagon & Square), Boston, Mass.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Hall's, Sam'l. Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., Phila, Pa.
Milton Mfg. Co. (Finished Hexagon), Milton, Pa.
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv index & branch offices, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I.
Peninsular Milled Screw Co., Detroit, Mich.
Pittsburg Screw & Bolt Co. (Finished), Pittsburg, Pa.
Rhode Island Tool Co. (Finished), Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Rockford Bolt Co. (Brass Only), Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port-**Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

## 7814— Nuts (Caster)

**Russell, Burdsall & Ward Bolt & Nut Co. (Case Hardened), Port Chester, N. Y., & Rock Falls, Ill.**

## 7815— Nuts (Castellated)

**NATIONAL-ACME MFG. CO. (Iron and Steel),** 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Peninsular Milled Screw Co., Detroit, Mich.

## 7816—Nuts (Castle Semi-Finished)

**DETROIT SCREW WORKS (Also Polished),** 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Milton Mfg. Co., Milton, Pa.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Peninsular Milled Screw Co., Detroit, Mich.

## 7817— Nuts (Check & Jam)

Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Handy Car Equipment Co. (For Car & Track Work), Old Colony bldg, Chicago, Ill.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Milton Mfg. Co., Milton, Pa.
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Peninsular Milled Screw Co., Detroit, Mich.
Rhode Island Tool Co., Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Port **Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Cleveland, O.
Western Automatic Machine Screw Co., Elyria, Ohio

## 7818— Nuts (Clevis)

**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York (See adv. index, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.

## 7819— Nuts (Cold Drawn)

Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Hartford Machine Screw Co. (Steel Hexagon), Hartford, Conn.

## 7820— Nuts (Cold Pressed)

American Screw Co. (For Machine Screws, Stove Bolts, etc.), Providence, R. I.
**ATLAS BOLT & SCREW CO., Marquette,** opp. Hamilton av, N E, Cleveland, O.
Berry Bros., Columbus, O.
Columbus Bolt Works, Columbus, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Kirk-Latty Mfg. Co., Cleveland, O.
National-Acme Mfg. Co. (Machine Screw), Cleveland, O.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Ohio Nut & Bolt Co., Berea, O.


# Hendricks' Commercial Register

IS USED FOR

# Purchasing Purposes

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THAN ANY OTHER PUBLICATION ISSUED


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## 7821– Nuts (Cold Punched)

American Bolt Co., Birmingham, Ala.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Anthony Screw Co., Worcester, Mass.
Ballard Drop Forge Co., Ballard, Seattle, Wash.
Berry Bros., Columbus, O.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation (Tapped, Square & Hexagon), New Britain, Conn
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Hall's, Sam'l Sons, 229 W 10th, New York
Haskell, Wm. H., Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., Philadelphia, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Schofield bldg, Cleveland.
Lamson & Sessions Co., Cleveland, O. Ohio
Lanman, E. B, Co., Columbus, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co. (Chamfered & Trimmed), Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
Neely Nut & Bolt Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Ohio Nut & Bolt Co., Berea, O. Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Penn Iron Co., Lancaster, Pa.
Pittsburg Screw & Bolt Co. (Chamfered & Trimmed), Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., 600 E Clarence, St. Louis
Sizer Forge Co., Buffalo, N. Y. Mo
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville, Conn., & Cleveland
W. & S. Mfg. Co., Worcester, Mass. Ohio

## 7822– Nuts (Coupling)

**CLEVELAND PUNCH & SHEAR WORKS Co., Cleveland, O. (See adv. index, end of book)**
Cleveland Steel Tool Co., Cleveland, O.

## 7823– Nuts (Forged)

Aetna Nut Co. (Machine Forged), Southington, Conn.
American Iron & Steel Mfg. Co. (Large), Lebanon, Pa.
Billings & Spencer Co., Hartford, Conn.
Dyson, Jos. & Sons, Cleveland, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Kansas City Bolt & Nut Co., Kansas City, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (Large). (See adv. index & branch offices, end of book)
Shelton Co., Chelton, Conn.
Steel Car Forge Co., Pittsburg, Pa.

## 7824– Nuts (Hot Pressed)

Aetna Nut Co., Southington, Conn.
American Bolt Co., Birmingham, Ala.
American Equipment Co. ("U. S. Standard"), Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Armstrong & Parker, 361 North, Baltimore, Md.
Ballard Drop Forge Co., Ballard, Seattle, Wash.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Hall's, Sam'l Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1300 Buttonwood, Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Schofield bldg, Cleveland, Ohio
Lamson & Sessions Co., Cleveland, O.
Lanman, E. B. Co., Columbus, O.
Lanz, Matthew & Sons, Pittsburg, Pa.
Lichigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co. (Square & Hexagon), Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
Neely Nut & Bolt Co., Pittsburg, Pa.
New Castle Forge & Bolt Co. (Square & Hexagon), New Castle, Pa.
Ohio Nut & Bolt Co., Berea, O.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Penn Iron Co., Lanuaster, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Rockford Bolt Co., Rockford, Ill.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co. (Square & Hexagon), Scranton, Pa.
Shelton Co., Shelton, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## 7825– Nuts (Joint)

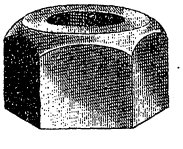
American Iron & Steel Mfg. Co., Lebanon, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO. (Or Collars), Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Republic Iron & Steel Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER**

NATIONAL BOLT & NUT CO.

MANUFACTURERS OF "NATIONAL"

HOT PRESSED NUTS



COLD PUNCHED NUTS

LARGE FORGED NUTS

OFFICE & WORKS 62ND STREET & A.V.R.R.

PITTSBURGH, PA.

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## 7826— Nuts (Knurled)

Corbin Screw Corporation (Thumb), New Britain, Conn.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
**NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O.** (See adv. index & branch offices, end of book)
Peninsular Milled Screw Co., Detroit, Mich.
**PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa.** (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
Western Automatic Machine Screw Co., Elyria, Ohio

## 7827— Nuts (Large)

Milton Mfg. Co. (For Heavy Steam, Electrical Machinery, Bridges, etc.), Milton, Pa.

## 7828—Nuts (Machine Screw)

American Screw Co. (Tapped), Providence, R. I., & 19 Lake, Chicago, Ill.
**ATLAS BOLT & SCREW CO. (Brass & Iron), Marquette, opp. Hamilton av, N E, Cleveland, O.**
Berry Bros., Columbus, O.
Chicago Nut Co., 617 W Jackson boul, Chicago, Ill.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Cobb & Drew, Plymouth, Mass.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co., Cleveland, O.
Moore, Franklin Co., Winsted, Conn.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Michigan Bolt & Nut Works, Detroit, Mich.
**NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O.** (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
Neeley Nut & Bolt Co., Pittsburg, Pa.
New England Screw Co., Boston, Mass.
Ohio Nut & Bolt Co., Berea, O.
Old Dominion Iron & Nail Works Co., Richmond, Va.
**PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa.** (See adv. index, end of book)
Reed & Prince Mfg. Co. (Iron & Brass, Square & Hexagon), Worcester, Mass.
Rhode Island Tool Co., Providence, R. I.
Rochester Machine Screw Co., Rochester, N.Y.
Rockford Bolt Works, Rockford, O.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., St. Louis, Mo.
Shelton Co., Shelton, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio
Worcester Machine Screw Co., Worcester, Mass

## 7829— Nuts or Collars

Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin Detroit, Mich.** (See adv. index, end of book)
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Rhode Island Tool Co., Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
Smith, Thos. & Co., Worcester, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio

## 7830—Nuts (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2204 Washington av, Philadelphia, Pa.

## 7831— Nuts (Pipe Sleeve)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

## 7832—Nuts (Planer Head Bolt)

**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
**NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O.** (See adv. index & branch offices, end of book)
**PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa.** (See adv. index, end of book)

## 7833— Nuts (Semi-Finished)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Anthony Screw Co., Worcester, Mass.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Curtiss Screw Co., Buffalo, N. Y.
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Hall's, Samuel Sons, 229 W 10th, New York
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Lake Erie Iron Co., Cleveland, O.
Milton Mfg. Co., Milton, Pa.
**NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O.** (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Niagara Screw Co., Buffalo, N. Y.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Pawtucket Mfg. Co., Pawtucket, R. I.
Peninsular Milled Screw Co., Detroit, Mich.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Reynolds & Co., New Haven, Conn.
Rhode Island Tool Co., Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Rockford Bolt Co., Rockford, Ill.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
St. Louis Screw Co., St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio
Worchester Machine Screw Co., Worcester, Mass.

## 7834— Nuts (Sleeve)

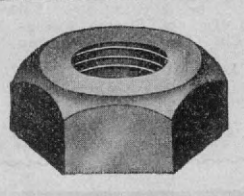
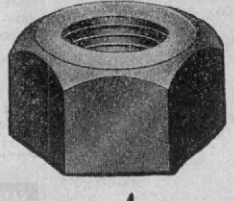
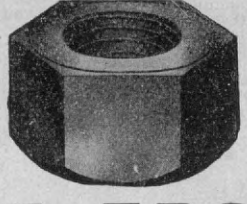
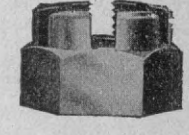
**American Iron & Steel Mfg. Co. (Hexagon, Pipe, etc.), Lebanon, Pa.**
Boston Bolt & Iron Co., Boston, Mass.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Republic Iron & Steel Co, Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.

## 7835—Nuts (Stove, Bolt & Rod)

American Screw Co., Providence, R. I.
**ATLAS BOLT & SCREW CO., Marquette, opp. Hamilton av, N E, Cleveland, Ohio**
Berry Bros., E 1st av & R. R., Columbus, O.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
Kansas City Bolt & Nut Co. (Bolt & Rod Only), Kansas City, Mo.
Lamson & Sessions Co., Cleveland, O.
Moran Bolt & Nut Mfg. Co., Florida & Main, St. Louis Mo.
Reed & Prince Mfg. Co., Worcester, Mass.
Republic Iron & Steel Co., Pittsburg, Pa.
St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.

## 7836— Nuts (Tapped)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Anthony Screw Co., Worcester, Mass.
Columbus Bolt Works, Columbus, O.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Colorado Fuel & Iron Co., Denver, Col.
Corbin Screw Corporation (Square & Hexagon), New Britain, Conn.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
Graham Nut Co., Pittsburg, Pa
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co., Cleveland, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Penn Iron Co., Lancaster, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.

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DETROIT, MICH.

ESTABLISHED 1880


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Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville, Ct., & Cleveland, O.
Western Altomatic Machine Screw Co., Elyria, Ohio

## 7837— Nuts (Telephone)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

## 7838—Nuts (Thumb or Wing)

**American Iron & Steel Mfg. Co., Lebanon, Pa.**
Besley, Chas. H. & Co., Chicago, Ill.
**Billings & Spencer Co., Hartford, Conn.**
Chicago Nut Co. (Brass Only), 617 W **Jackson** boul, Chicago, Ill.
Chicago Screw Co., 1026 S **Homan av, Chicago,** Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation (Brass, Bronze, Iron & Steel), New Britain, Conn.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Hardware & Woodenware Mfg. Co. (Thumb), 693 B'way, New York
Hartford Machine Screw Co., Hartford, Conn.
**Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.**
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
**Judd & Leland Mfg. Co., Clifton Springs, N. Y.**
Lamson & Sessions Co., Cleveland, O.
**Michigan Bolt & Nut Works, Detroit, Mich.**
Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
Neumann & Alling, New Britain, Conn.
Ohio Nut & Bolt Co., Berea, O.
Page-Storms Drop Forge Co. (Thumb, Drop Forged Steel), Chicopee, Mass.
Peninsular Milled Screw Co., Detroit, Mich.
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Pratt & Letchworth, Buffalo, N. Y.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Republic Iron & Steel Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Rockford Bolt Co., Rockford, Ill.
St. Louis Screw Co., St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, O.
Vandegrift & Morris, Shelbyville, Ind.
Welch, T. F. Co. (Brass), Boston, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio
**WHITMAN & BARNES MFG. CO.,** Chicago, Ill. (See adv. index & branch offices, end of book)
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.
Worcester Machine Screw Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

## 7839— Nuts (Tire Bolt)

American Screw Co., Providence, R. I.
**ATLAS BOLT & SCREW CO., Mar**quette, opp. Hamilton av, N E, Cleveland, O.
Berry Bros., E. 1st av & R. R., Columbus, O.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Reed & Prince Mfg. Co., Worcester, Mass.
Republic Iron & Steel Co., Pittsburg, Pa.
Rockford Bolt Co. (Square & Hexagon), Rockford, Ill.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

## 7840— Nuts (Weldless Eye)

Billings & Spencer Co. ("B. & S.," Drop Forged), Hartford, Conn.

## 7841— Oakum

Alden, H. L., Camden, Me.
American Mfg. Co., 63 Wall, New York
Baker, Howard H. & Co., Buffalo, N. Y.
Baker, Wm. T., Jersey City, N. J.
Baltimore Oakum Works (Napoleon B. Woodward. Prop.), Baltimore, Md.
**CARPENTER, GEO. B. & CO., 202 S.** Water, Chicago, Ill. (See adv. index, end of book)
Chelsea Fibre Mills, 33 Union sq, New York
Davey, W. O. & Sons, Jersey City, N. J.
De Graun & Boyden, 14 Coenties sl, New York
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
**LESCHEN, A. & SONS ROPE CO.,** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Marine Mfg. & Supply Co., 156 South, New York
Meagher's, Jas. Sons, 327 28th, San Francisco, Cal.
**NEW YORK CORDAGE CO. ("Ny**cord" Plumbers' & Navy), 85 Wall, New York. (See adv. index, end of book)
Overman & Schrader Cordage Co. (Marine & Plumbers), Covington, Ky
Planet Mill Mfg. Co., 335 Carroll, Brooklyn, N. Y.
Stratford, Geo. Oakum Co., Jersey City, N. J.
Tibbals Oakum Co., Cobalt, Conn.
Tucker & Carter Rope Co., 76 South, New York
Upson-Walton Co., Cleveland, O.
Wall Rope Works (Inc.), 56 South, New York
Winnie, F. W. & Son, 237 Market, Phila., Pa.
Woolford, Napoleon B., Baltimore, Md.

## 7842— Oars (Boat)

Bailey Co. (Steel), 220 21st, Detroit, Mich.
Bogert & Hopper Co. (Miniature), 162 William, New York
**CARPENTER, GEO. B. & CO., 202 S.** Water, Chicago, Ill. (See adv. index, end of book)
Clarendon Boat & Oar Co., Clarendon, Ark.
Davis Boat & Oar Co., Detroit, Mich.
De Grauw Aymer & Co., 34 South, New York
Detroit Boat Works, Detroit, Mich.
Detroit Canoe & Oar Works, Detroit, Mich.
Estes, E. B. & Son, 74 Warren, New York
Hinckley Bros. & Co., Boston, Mass.
Lease, G. D. & Son, Jeffersonville, Vt.
Long, Irvine, Albion, Pa.
Moorman, Eli S. & Son, Baton Rouge, La.
New York Boat Oar Co., 69 West, New York.
Racine Mfg. Co., Racine, Wis.
Rushton, J. H., Canton, N. Y.
St. Lawrence River Skiff, Canoe & S. L. Co.
Shaw & Tenney, Orono, Me. Clayton, N. Y.
Sheldon, Orin Co., Boston, Mass.
Smith, Jno. T., 159 South, New York
Squiers, Hy. C. & Son, 20 Cortlandt, New York
Strand-Youngpost Mfg. Co., Minneapolis, Minn.
Stryker Mfg. Co., Stryker, Ohio.
Trumbull, Eli., Mentone, Ind.
West Unity Mfg. Co., West Unity, O.
Wells Boat Oar Co., Devall Bluff, Ark.
Wilber & Wheelock, Clayton, Ohio.

## 7843— Oats Cleaner

**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index end of book)
Higbie Oats Cleaner Co., 87 Lake, Chicago, Ill.
**SMITH, F. P. WIRE & IRON WORKS.** Lake & Dearborn, Chicago, Il. (See adv. index, end of book)

## 7844— Ochres

Baltimore Dry Paint Works, Baltimore, Md.
Blue Ridge Ochre Co., Cartersville, Ga.
Cherokee Ochre Co., Cartersville, Ga.
Hanna & Andrus Mfg. Co. (Chrome Ochres, etc.), Chicago, Ill.
Mepham, Geo. S. & Co., East St. Louis, Ill.
Patton Paint Co. (White, Gray, etc.), Milwaukee, Wis.
Smith, J. Lee & Co., 19 Jacob, New York
Star Clay Co., Mertztown, Pa.
**WILBUR, J. CO., Providence, R. I.** Factory, Phila., Pa. (See adv. index, end of book)
Williams, C. K. & Co. ("Anchor Brand"), Easton, Pa.

## 7845— Oesophagoscopes

Electro Surgical Instrument Co., Rochester, N. Y.

## Odometers

(See Meters, Distance Recording)

## 7845a—Office Equipment (Steel)

**FIRE-PROOF FURNITURE & CON**struction Co., Miamisburg, Ohio. (See adv. index, end of book)

## 7846—Office Furniture ("Allsteel")

**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)

## 7846a—Office & Loft Building Directories (Changeable)

**TABLET & TICKET CO., 541-553** Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

## 7847— Ohmmeters

Biddle, James G. ("Megger" Direct Reading), 1114 Chestnut, Phila., Pa.
Ou Vivier, Ernest H., 30 Church, New York
Keystone Electrical Instrument Co., 9th & Montgomery av, Phila., Pa.
**LEEDS & NORTHRUP CO., Stenton av, Gtn., Phila., Pa.** (See adv. index, end of book)
Roller-Smith Co., 203 B'way, New York
Sandwich Electric Co. ("Illinois" Direct Reading), Sandwich, Ill.
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 7848— Oil Cloth Mfrs.

(See also Linoleum Manufacturers)

American Oil Cloth Co. (Floor), 262 Canal, New York. Works: Salem, N. J.
Bailey's, C. M. Sons & Co. (Floor), Winthrop, Me.
Blabon, Geo. W. Co. (Floor), 34 N 5th, Phila., Pa.
Chandler Oil Cloth & Buckram Co. (Carriage Enameled), Taunton, Mass.
Columbus Oil Cloth Co. (Table & Enameled), Columbus, O.
Dunn, J. C. & Co. (Floor), Camden, N. J.
Farr & Bailey Mfg. Co. (Floor Oil Cloth & Rugs), Camden, N. J.
Goodlatta & Sons, Delawanna, N. J.
Haskell, Robt. C. & Co. (Floor), Troy, N. Y.
James, T. M. & Co. (Table, Shelf), 390 B'way, New York
Monarch Rubber Oil Cloth Co. (Carriage), 41 N 7th, Phila., Pa.
Nairn Linoleum Co. (Floor), Kearny, N. J.
Potter, Thos., Sons Co. (Inc.), (Floor, Table & Rugs), 522 Arch, Phila., Pa., & 41 Union sq., New York
Sampson, Alden & Sons (Floor), 58 Reade, New York
Standard Oil Cloth Co. ("Meritas" Table, also Shelf, Stair, Carriages, etc.), 320 B'way, New York
Taunton Oil Cloth Co., Taunton, Mass.
Trenton Oil Cloth & Linoleum Co. (Table, Shelf & Stair Enameled), Trenton, N. J.
United Oil Cloth Co., 41 Union sq, New York
Wadsworth-Woodman Co., Winthrop, Me.

## Oil Cups

(See Lubricators, Oil & Grease Cup)

## 7849— Oil Guns & Syringes

**DELTA MFG. CO., Bloomfield, N. J.**
Frost Mfg. Co. (Oil Gun), Kenosha, Wis.
Hall Mfg. Co., John & Cliff, New York
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Knapp Mfg. Co. (Brass), 20 Warren, New York
N. Y. & N. J. Lubricant Co. ("N. F. O." Lubricating Oil Gun), 165 B'way, New York
Noera Mfg. Co., Waterbury, Conn.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

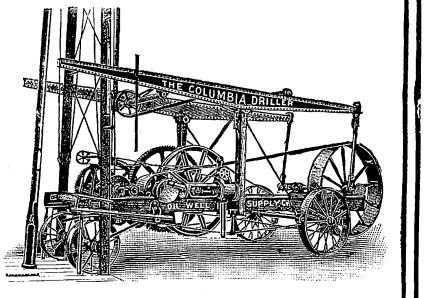
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## 7850—Oil Hole Covers & Cups

**BAY STATE STAMPING CO. ("Bennett Handy" Self Closing), 380 Chandler,** Worcester, Mass. (See adv. index, end of book)
Bowen Mfg. Co., Auburn, N. Y.
Tucker, W. W. & C. F. ("Tucker" Two-piece Self Closing), Hartford, Conn.
Winkley Co., Detroit, Mich.

## 7851— Oil of Vitriol

Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd, Philadelphia, Pa.
Mechling Bros. Mfg. Co., 949 N 9th, Phila., Pa.
Merrimac Chemical Co., Boston, Mass.

## 7852—Oil Refineries Complete (Constructors of)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)

## 7853— Oil-Soluble Colors

Behlen, H. & Bro. (For Coloring Illuminating Oils & Greases, etc.), 371 Pearl, New York

## Oil Stains

(See Wood Stains)

## Oil Stones

(See Stones, Oil & Water)

## 7854—Oil Well Supplies (Rubber)

**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Continental Rubber Works, Erie, Pa.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
N. J. Car Spring & Rubber Co., Jersey City, N. J.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 7855—Oil & Gas Well Supplies

Acme Supply Co., Corsicana, Tex.
Adams Bros. Co., Findlay, O.
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Angell Mfg. Co. (Brass & Steel Specialties), Franklin, Pa.
Associated Supply Co., San Francisco, Cal.
Atlas Oil Well Supply Co., Muskogee, Okla.
Barse, C. E. B. Co., Olean, N. Y.
Bayne, Wilson & Pratt, Pittsburg, Pa., & Bradford, Pa.
Bennett, Jas. E. Emlenton, Pa.
Bovaird Supply Co., Independence, Kans.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bradford Supply Co., Bradford, Pa.
Busch, A. H. Co., Los Angeles, Cal.
Caldwell, E. R. & Co., Bradford, Pa.
California Supply Co., Los Angeles, Cal.
Campbell, J. G. & W., Butler, Pa.
Childs, Jno., Smiths Ferry, Pa.
Clark Supply Co., Noblesville, Ind.
Corlett & Co., Knox, Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crotty, Jno. T. & Co., Humble, Texas
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Dresser, S. R. (Specialties), Bradford, Pa.
Dunham, Carrigan & Hayden Co., San Francisco, Cal.
**du PONT, E. I., de NEMOURS POWder** Co. (Oil Well Explosives), Wilmington, Del. (See adv. index & branch offices, end of book)
Emery, L. Jr. & Co., Bradford, Pa.
Emery, W. N. & Son, Franklin, Pa.
Evans Mfg. Co., Butler, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Frick-Reid Supply Co., Bartlesville, Okla.
Frick & Lindsay Co., Pittsburg, Pa.
Harper & Reynolds Co., Los Angeles, Cal.
Harron, Richard & McCone (Inc.), San Francisco, Cal.
Hays, E. F. & Sons, Chicora, Pa.
Heller, Aller & Co., Napoleon, O.
Herron, R. H. Co., Los Angeles, Cal.
Hoch Bros., Chicora, Pa.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Johnson, C. H., Chicora, Pa.
Jones, S. M. Co., Toledo, O.
Kane Supply Co., Kane, Pa.
Keiser, Geo. & Co., Muncie, Ind.
Kelly & Jones Co., Pittsburg, Pa.
Kesselman & Co., Butler, Pa.
Kettler Brass Mfg. Co., Houston, Tex.
Laney, T. G., Lima, O.
Laughner, E. E., Ethel Landing, Pa.
Leidecker Tool Co., Marietta, O.
Leschen, A. & Sons Rope Co., St. Louis, Mo.
Logan, A. W., Oil City, Pa.
McDowell, W. I., Knox, Pa.
McElwaine Co., Bradford, Pa.
McEvoy, J. H. & Co., Houston, Texas
McEwen Bros., Wellsville, N. Y.
McFie, W. T. Supply Co., Los Angeles, Cal.
Magee, Jno. A. & Son, Clarion, Pa.
**MARION MACHINE, FOUNDRY &** Supply Co., Marion, Ind. (See adv. index, end of book)
Masseth Packer & Machine Works, Butler, Pa.
Mitchell, H. B., Emlenton, Pa.
Montpelier Cup & Metal Works, Montpelier, Ind.
Moorhouse, G. W., Kinzua, Pa.
Muncie Gas Engine & Supply Co., Muncie, Ind.
National Supply Co., Toledo, O.
Oil Field Supply Co., Bradford, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Parke & Lacy Co., San Francisco, Cal.
Pattin Bros. Co., Marietta, O.
Pickett Hardware Co., Warren, Pa.
Portland Foundry & Machine Co., Portland, Ind.
Prichard, F. A. & Co., Mannington, W. Va.
Reid, Jos. Gas Engine Co., Oil City, Pa.
Rouseville Supply Co., Rouseville, Pa.
Sennett, G. B. Co., Youngstown, O.
Sherman, J. B., Butler, Pa.
Sinclair & Morrison Co., Lima, Ohio
Spence & Smith, Parkersburg, W. Va.
Stancliff Well Screen & Mfg. Co., Houston, Tex.
Tay, Geo. H. Co., San Francisco, Cal.
Turner, C. H. Co., Parkersburg, W. Va.
Union Tool Co., Los Angeles, Cal.
Wyssbrod, E. V. & Co., Findlay, O.
Young & Groove, Eldred, Pa.

## 7856—Oil & Grease Extractors

(See also Separators, Steam & Oil)

Acton, John ("Nelson," Water Separator or Grease Extractor), 118 John, Brooklyn, N. Y.
Ambrose Machine Co., Eagle & Provost, Brooklyn, N. Y.
Ansonia Mfg. Co., 30 Church, New York
Atwood & Morrill ("XX Century"), Salem, Mass.
Austin Separator Co., Detroit, Mich.

Steam Specialists
**JAMES BEGGS & CO.**

("Blackburn-Smith" Feed Water Filter & Grease Extractor), Liberty & Church, New York
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
Consolidated Engineering Co. ("Van Auken"), 507 W Jackson blvd, Chicago, Ill.
Direct Separator Co. ("Sweets"), Detroit, Mich.
**GRISCOM-SPENCER CO. ("Reilly-Ehsen"), 90 West, New York. (See adv. index & branch offices, end of book)**
Hussey, McCann & Co. ("Peerless" Grease), 87 Warren, New York
Jacobs, C. & Co. ("Lowden"), Boston, Mass.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.


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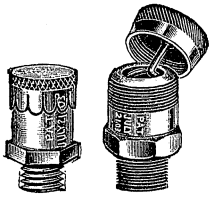

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Jarvis Engine & Machine Works ("Monitor" Oil Only), Lansing, Mich.
Kruger & Blind Co., 511 Master, Phila., Pa.
Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
Nicholson, W. H. & Co. ("Wyoming" Automatic), Wilkesbarre, Pa.
Reliance Mfg. Co., Cleveland, O.
Robertson, Jas. L. & Sons, Inc. ("Hines"), 78 Murray, New York
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Sims Co., Erie, Pa.
Watson & McDaniel Co. ("Jennings"), 146 N. 7th, Phila., Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)
Worcester Oil Extractor Co., Worcester, Mass.

## 7857—Oilers (Car Journal Box)

Armstrong Oiler Co. (Automatic), Commonwealth Trust bldg, Phila., Pa.

## 7858— Oilers (Car Pit)

Hawkins Car Oiler & Specialty Mfg. Co., Inc. ("Hawkins"), Lowell, Mass.
McClintock & Irvine Co., Pittsburg, Pa.
Wall, P. Mfg. Supply Co. (Brazed), N S, Pittsburg, Pa.

## 7859—Oilers (Cross Head Pin)

**LUNKENHEIMER CO. ("L.-W."),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 7861—Oilers (Engine & Machine)

(See also Cans, Oil, Etc.)

American Tube & Stamping Co. (Steel, Brass, Copper or Nickel Plated), Bridgeport, Conn.
Ansonia Novelty Co. ("Richard" Solderless Bottom), Ansonia, Conn.
Bloomer, R. E. ("Cannon"), Keithsburg, Ill.
Bowen Mfg. Co., Auburn, N. Y.
Consolidated Fruit Jar Co. ("Paragon," "Chace" Zinc, Brass & Copper), New Brunswick, N. J.
Detroit Ship Building Co. (Brass Department), Detroit, Mich.
Deverall Perfection Mfg. Co. "Deverall"), Coney Island av & Johnson pl, Brooklyn, N. Y.
Dover Stamping & Mfg. Co. (Tin & Brass), Cambridge, Mass.
Draper Co. ("Getchell's Improved 'Thompson'"), Hopedale, Mass.
Dressel Railway Lamp Works, 3860 Park av, New York
Eagle Glass & Mfg. Co., Wellsburg, W. Va.
Essex, G. B., Brass Co., Detroit, Mich.
Gans, Jno. L. ("The Tormay"), Connellsville, Pa.
Gem Mfg. Co. ("Gem" & "Pyramid"), Polished Brass & Steel Bright Finish), Pittsburg, Pa.
Geuder, Paeschke & Frey Co. (Pieced Tin & Galvanized Iron, Bent & Straight Spout, also Spring Bottom Oilers), Milwaukee, Wis.
Goodwin Hand Oiler Co., Richmond, Ind.
Gustafson Mfg. Co. (Rapid Fire Car Wheel), Chattanooga, Tenn.
Hall Mfg. Co. ("Hall's," "Bartow"), John & Cliff, New York
Hammer & Co. (Malleable Iron), Branford, Conn.
Hero Mfg. Co. ("Hero," "Chace's," "Paragon"), Gaul & Adams, Phila., Pa.
Huebel Mfg. Co. (Malleable Iron), Newark, N. J.
Iron Clad Mfg. Co. ("Thompson"), 204 Varet, Brooklyn, N. Y.
Ironsides Co. ("Tormay" for Mine Cars), Columbus, O.
Jackson, J. W. ("Jackson" Tin Self Closing Engine Oiler), Sharpsville, Pa.
Johnson Mfg. Co., Urbana, O.
Knapp Mfg. Co. (Engineers' Brass Sets), 20 Warren, New York
Lavigne Mfg. Co., Detroit, Mich.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
McClintock & Irvine Co. ("M. & I." Sheet Steel), Pittsburg, Pa.
Malleable Iron Fittings Co. (Malleable Iron), Branford, Conn.
Manhattan Brass Co. (Brass & Zinc), 334 E 28th, New York
Maple City Mfg. Co. ("Howland" Pump & Valve Oiler), Monmouth, Ill.
Matthews & Willard Mfg. Co., Waterbury, Conn.
Michigan Lubricator Co. ("Michigan" Sight Feed Snap Lever), Detroit, Mich.
Noera Mfg. Co. ("Noera," "Thompson," "Puritan" Brass & Steel, of All Kinds), Waterbury, Conn.
Nugent, Wm. W. & Co. ("Nugent," Crank & Crosshead Pin, etc.), 220 W Huron, Chicago, Ill.
Pederson Mfg. Co., 636 1st av, New York
Penberthy Injector Co., 346 Holden av, Detroit, Mich.
Penn Oiler Co. ("Penn," Spun Zinc & Brass), 250 Fulton, New York
Powell, Wm. Co. (Glass, Plain & Sight Feed), Cincinnati, O.
Sands Mfg. Co. ("Sands," Steel Brazed), Pittsburg, Pa.
Tower & Lyon Co. ("Dome," Spring Bottom, Malleable Iron), 95 Chambers, New York
Vogel, Wm. & Bros. ("Acme"), 37 S 9th, Brooklyn, N. Y.
Wall, P. Mfg. Supply Co. ("Wall's" Vent, Pyramid, Steel & Spring Bottom), N S, Pittsburg, Pa.
**WHITMAN & BARNES MF'G. CO.,** (Copperized Steel, etc.), Akron, O. (See adv. index & branch offices, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 7862— Oilers (Felloe)

Gowanda Agricultural Works, Gowanda, N. Y.
Heath Foundry & Mfg. Co., Plymouth, O.
Indiana Foundry Co., Indiana, Pa.
Pratt, Wm E. Mfg. Co., 91 Lake, Chicago, Ill.
Sidney Hollowware Co., Sidney, O.
Southern Skein & Fdry Co., Chattanooga, Tenn.
Sperry, D. R. & Co., Batavia, Ill.
Swett, A. L. Iron Works, Medina, N. Y.

## 7863— Oilers (Floor)

Garnet, Geo. H. ("Universal"), Allentown, Pa.

## 7865—Oilers (Lawn Mower)

Bridgeport Brass Co. ("Handy"), Bridgeport, Conn.
Consolidated Fruit Jar Co., New Brunswick, N. J.

## 7866— Oilers (Locomotive)

Dressel Railway Lamp Works, 3860 Park av, New York
Eagle Glass & Mfg. Co., Wellsburg, W. Va.
Gem Mfg. Co. ("Gem" Steel), Pittsburg, Pa.
Gray, Peter & Sons (Engineers' Heavy), East Cambridge, Mass.
Handlan-Buck Mfg. Co. ("Perfection" Valve), St. Louis, Mo.
Hero Mfg. Co., Gaul & Adams, Phila., Pa.
Jackson, J. W. ("Jackson" Oil Can), Sharpsville, Pa.
Johnson Mfg. Co. ("The J," Long Spout), Urbana, O.
Knapp Mfg. Co., 20 Warren, New York
Lonergan, J. E. & Co. (Piston Rod, Guide Valve, Stem Oilers, etc.), 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Maple City Mfg. Co. ("Howland" Pump Oilers, etc.), Monmouth, Ill.
Penberthy Injector Co., Detroit, Mich.
Noera Mfg. Co. ("Noera" Brass & Steel of All Kinds), Waterbury, Conn.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
Wall, P. Mfg. Supply Co. ("Wall" Steel), Pittsburg, Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 7867—Oilers (Locomotive Flange)

Ohio Injector Co., Wadsworth, O.

## 7868—Oilers (Loose Pulley)

American Lubricator Co. ("American"), Detroit, Mich.
Gem Mfg. Co., Pittsburg, Pa.
Lonergan, J. E. & Co., 211 Race, Phila., Pa
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**SWAIN LUBRICATOR CO. ("Swain"),** c Lake & S Water, Chicago, Ill. (See adv. index, end of book)
Van Duzen, E. W. Co., Cincinnati, O.

## 7869—Oilers (Mowing Machine)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
American Tube & Stamping Co. (Copperized Steel Spring Bottoms), Bridgeport, Conn.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Dover Stamping & Mfg. Co., Cambridge, Mass
Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hero Mfg. Co. (Steel), Gaul & Adams, Phila., Pa.
Maple City Mfg. Co. ("Howland" Pump Oilers, etc.), Monmouth, Ill.
Noera Mfg. Co. ("Noera"), Waterbury, Conn.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N.Y.
Wall, P. Mfg. Supply Co., N S, Pittsburg, Pa.
Conn.

## 7870— Oilers (Multiple)

**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 7871— Oilers (Ring)

Adams, S. Jarvis Co. ("Midland," for Mine Cars), Pittsburg, Pa.

## 7872—Oilers (Self-Closing, Dust Proof)

Bowen Mfg. Co., Auburn, N. Y.

## 7873—Oilers (Sewing Machines)

Bridgeport Brass Co. ("Handy"), Bridgeport, Conn.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Hero Mfg. Co. ("Wilmot," "Star"), Gaul & Adams, Phila., Pa.

## 7874— Oilers (Spring)

American Tube & Stamping Co., Bridgeport, Conn.
Gem Mfg. Co. (Brazed Steel & Brass), Pittsburg, Pa.
Hammer & Co., Branford, Conn.
Hero Mfg. Co., Gaul & Adams, Phila., Pa.
Republic Metalware Co., Buffalo, N. Y.
Tower & Lyon Co., 95 Chambers, New York
Wall, P. Mfg. Supply Co., N S, Pittsburg, Pa.

## 7875— Oilers (Typewriter)

(See Oilers, Sewing Machine)

## 7876— Oilers (Windmill)

Red Cross Mfg. Co. (Automatic), Bluffton, Ind.

## 7877—Oiling Sets (Engineers')

American Tube & Stamping Co. (Steel Copperized & Nickel Plated), Bridgeport, Conn.
Consolidated Fruit Jar Co. ("Paragon," "Chace"), New Brunswick, N. J.
Deverall Perfection Mfg. Co. ("Perfection"), Coney Island av & Johnson pl, Brooklyn, N. Y.
Dressel Railway Lamp Works, 3860 Park av, New York
Gem Mfg. Co. ("Gem" Steel), Pittsburg, Pa.
Hall Mfg. Co. ("Hall's), John & Cliff, New York
Hero Mfg. Co. (of "Paragon" Oilers), Gaul & Adams, Phila., Pa.
Knapp Mfg. Co., 20 Warren, New York
Noera Mfg. Co. ("Noera" Steel, Copper Plated), Waterbury, Conn.
**PITTSBURGH GAGE & SUPPLY CO.** ("White Star" Continuous), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
Wall, P. Mfg. Supply Co. ("Walls"), N S, Pittsburg, Pa.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

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## 7878—Oiling System (Continuous)

Burt Mfg. Co., 32 Main, Akron, O.
Capital Brass Works, Detroit, Mich.
Engine Room Specialty Co., Lake Providence, La.
**PITTSBURGH GAGE & SUPPLY CO.** ("White Star"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

## 7879— Oils (Analine)

Armitage Mfg. Co., Richmond, Va.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)

## Oils (Axle)

(See Grease, Axle)

## 7881—Oils (Bicycle & Sewing Machine)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Nye, Wm. F., New Bedford, Mass.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Nye, Wm. F., New Bedford, Mass.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262
Union Petroleum Co. (In Bulk & Bottles), 135 S 2d, Phila., Pa.

## 7882— Oils (Boiler)

Talmage Mfg. Co. ("Rubra," for Locomotives, etc.), Cleveland, O.

## 7883—Oils (Car Cleaning)

**Columbia Refining Co. ("Columbia" Varnish Cleaner & Preserver), 90 West, New York**

## 7884— Oils (Castor)

Baker, H. J. & Bro., 100 William, New York
Fuerst Bros. & Co., 2 Stone, New York
**National Lead Co., 111 B'way, New York**
National Refining Co., Cleveland, O.

## 7885—Oils (Castor Machine)

Canfield Oil Co., Cleveland, O.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Sullivan Oil Co. ("Sullivan's" **Gumless), 418 Wells, Chicago, Ill.**

## 7886—Oils (Cement Floor)

National Refining Co., Cleveland, O.
Mills, C. E. Oil Co., Syracuse, N. Y.
**Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York**

## 7887— Oils (Cochin)

Welch, Holme & Clark Co. ("East India") 383 West, New York

## 7888— Oils (Cocoanut)

American Linseed Co., 100 William, New York
Elbert & Werlemann (Inc.), 68 Broad, New York
Fuerst Bros. & Co., 2 Stone, New York
**Hill's, Edw. Sons & Co., 71 Pine, New York**
Hollingsworth & Peterson, Lafayette bldg. Phila., Pa.
Magnus, Babee & Reynard (Inc.), 25? Pearl, New York
McKesson & Robbins, 91 Fulton, New York
Nucoa Butter Co., 133 Front, New York
Paterson, Boardman & Co., 8 Bridge, New York
Peterson, T. J. Co. ("Peterson"), Security bldg, Chicago, Ill
Tennant, C. Sons & Co., 76 William, New York
Welch, Holme & Clark Co., 383 West, New York
Winkler, Isaac Bro., Cincinnati, O.

## 7889— Oils (Core)

(See also Compounds, Core)

Bayerson Oil Works ("Rolinco"), Erie, Pa.
Buckeye Products Co., Cincinnati, O.
Climax Refining Co., Cleveland, O.
Federal Foundry Supply Co. ("3-Star"), Cleveland, O.
Haas Bros. Co. ("Hascoline"), Newark, N. J.
Herruth Core Oil Co., Zion City, Ill.
Holland Linseed Oil Co., Austin av, Chicago, Ill
Independance Mfg. Co. ("I-M-C"), Meadow & Wolf, Phila., Pa.
McCormick, J. S. Co., Pittsburg, Pa.
Mills, C. E. Oil Co., Syracuse, N. Y.
National Core Oil Co. (Oil or Compounds), Buffalo, N. Y.
National Refining Co., Cleveland, O.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Peterson, T. J. Co. ("Peterson"), Security bldg, Chicago, Ill
Sterling Oil Co. ("Sterling"), Emlenton, Pa
Stevens, Frederic B. ("Stevens"), Detroit, Mich.
Thompson & Co. ("Lin-O-Core"), North Side, Pittsburg, Pa.

## 7890— Oils (Corn)

American Hominy Co., Indianapolis, Ind.
Corn Products Refining Co. ("Paragol" Unadulterated), 26 B'way, New York

## 7891— Oils (Cottonseed)

American Cotton Oil Co. ("I. & L."), 21 Beaver, New York
Armstrong Refining Co., Dallas, Texas
Buckeye Cotton Oil Co., Cincinnati, O.
Central Cotton Oil Co., Jackson, Mich.
Curry, W. C. Co., Louisville, Ky.
Dallas Oil & Refining Co., Dallas, Tex.
Delta Oil Co., Greenville, Miss.
De Soto Oil Co., Memphis, Tenn.
Dixie Cotton Oil Co., Montgomery, Ala.
East St. Louis Cotton Oil Co., East St. Louis Ill
Gulf Port Cotton Oil Fertilizer & Mfg. Co., Gulf Port, Miss.
Havens Oil Co., Washington, N. C.
Kentucky Refining Co., Louisville, Ky.
Louisville Cotton Oil Co., Louisville, Ky.
Mississippi Cotton Oil Co., Jackson, Miss.
National Cotton Oil Co., Montgomery, Ala.
National Refining Co., Cleveland, O.
Planters' Cotton Oil Co., Montgomery, Ala.
Planters Oil Mill & Mfg. Co., Greenwood, Miss.
Portsmouth Cotton Oil Refining Co., Portsmouth Va.
Proctor & Gamble Co., Cincinnati, O.
Refuge Cotton Oil Co., Vicksburg, Miss.
Trinity Cotton Oil Co., Dallas, Tex.
Winona Oil & Mfg. Co., Winona, Miss.

## 7892— Oils (Creosote)

Armitage Mfg. Co., Richmond, Va.
Barrett Mfg. Co., 17 Battery pl, New York
Cleveland-Cliffs Iron Co. (Wood), Cleveland, O.
Cromwell-Walker Co., Kearney, N. J.
Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York
Lake Superior Iron & Chemical Co., Detroit, Mich.
Lewis, F. J. Mfg. Co., Chicago, Ill.
McClintock & Irvine Co., Pittsburg, Pa.
Mills, C. E. Oil Co., Syracuse, N. Y.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)**
Semet-Solvay Co., Syracuse, N. Y.
United Gas Improvement Co., Phila., Pa.
Wilckes, Martin, Wilckes Co., 135 William, New York

## 7893—Oils (Cutting & Polishing)

Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Penn Oil & Supply Co. ("Penn," Brand), Oil City, Pa.
Pratt, B. G. Co. ("Hydroil" Water Oil Cutting Compound), 50 Church, New York
Sonneborn, L. Sons (Inc.) ("Amalia"). 262 Pearl, New York
Sullivan Oil Co. ("Sullivan's" Cutting Compounds), 413 Wells, Chicago, Ill.
White Star Refining Co., Buffalo, N. Y.

## 7894— Oils (Cycle)

Buffalo Specialty Co. ("Fragrant"), 375 Elicott, Buffalo, N. Y.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Mills, C. E. Oil Co., Syracuse, N. Y.
National Cement Mfg. Co. ("Otline" & "Verybest"), Toledo, O.
National Refining Co., Cleveland, O.

## Oils (Cylinder)

(See Lubricating Oils & Greases)

## 7895— Oils (Dead)

United Gas Improvement Co., Phila., Pa.
**WATSON, H. F. CO. (For Roofing),** Erie, Pa. (See adv. index & branch offices, end of book)

## 7896— Oils (Drilling)

Houghton, E. F. & Co., 240 Somerset, Philadelphia, Pa.
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Sonneborn, L. Sons (Inc.), ("Amalia"), 262 Pearl, New York

## Oils (Dustlaying)

(See Road Binders & Preservatives)

## 7897— Oils (Emulsion)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Jamaica Dyewood & Chemical Co. ("Howell's No. 50"), 50 Church, New York

## 7898— Oils (Essential)

Bush, W. J. & Co., Linden, N. J.

## 7899— Oils (Fish)

Baker, H. J. & Bro. (Menhaden), 100 William, New York
Cook, N. B. Oil Co. (Sperm, Whale, Sea Elephant, Cod, Neatsfoot, etc.), 148 Front, New York
Dey, C. P., Beaufort, N. C.
Dodd, A. W. & Co., Gloucester, Mass.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Jarecki Chemical Co., Sandusky, O.
Marden, Orth & Hastings, 225 Purchase, Boston, Mass.
National Refining Co., Cleveland, O.
Norwood, Joseph W., Gloucester, Mass.
Robinson, W. A. & Co. (Sperm, Whale, Menhaden, Sea Elephant, etc.), New Bedford, Mass.
Swan & Finch Co. (Sperm, Fish, Whale, Cod, Seal, etc.), 151 Maiden Lane, New York

## 7899a—Oils (Flax Seed)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)

## 7900— Oils (Floor)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Sonneborn, L. Sons (Inc.) ("Amalia"; also "Amalia" Wax Gloss), 262 Pearl, New York

## 7901— Oils (Fusel)

Albany Chemical Co., Albany, N. Y.
**INTERNATIONAL SMOKELESS** Powder & Chemical Co., 140 Cedar, New York
McKesson & Robbins, New York
Maas & Waldstein, 100 William, New York
National Aniline & Chemical Co., 100 William, New York

## 7902— Oils (Gas & Fuel)

Associated Oil Co. (Crude Fuel Oil), San Francisco, Cal.
Craig Oil Co., Toledo, Ohio
Emery Mfg. Co., Bradford, Pa.
Freedom Oil Works Co., Freedom, Pa.
Gulf Refining Co. (Fuel), Pittsburg, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Manufacturers Paraffine Co., Chester, Pa.
Mills, C. E., Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Petroleum Co., Cincinnati, Ohio
Prairie Oil & Gas Co., Independence, Kan.
Richardson-Gay Oil Co., Corsicana, Texas
Rollin Mfg. A'ssn. & Tank Line Co., Chanute, Kan.
Standard Oil Co., 555 W 25th, New York
Sun Oil Co., Toledo, O.

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Texas Company ("Texaco"), 17 Battery, New York
Union Petroleum Co., 135 S 2d, Phila., Pa.
Wypsbrod, E. V. & Co., Findlay, O.

## 7904— Oils (Harness)

Frazer Lubricator Co., 111 W Michigan, Chicago, Ill.
Freedom Oil Works Co., Freedom, Pa.
Gordon, R. W. & Co., McKeesport, Pa.
Imperial Leather Preserver Mfg. Co. (Water Proof), 216 Chandler, Phila., Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Lone Star Blacking & Mfg. Co., Dallas, Tex.
Miller, Frank Co., 349 W 26th, New York
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Nye, Wm. F. ("Nyoil"), New Bdford, Mass.
Reliance Oil & Grease Co., Cleveland, O.
Sonneborn, L. Sons ("Amalia," also Grease), 262 Pearl, New York
Standard Oil Co. ("Eureka"), 555 W 25th, New York
Vacuum Oil Co., Rochester, N. Y.
Victor Mfg. Co., Newark, N. J.
World Refining Co., Easton, Pa.

## 7905— Oils (Headlight)

Freedom Oil Works Co., Freedom, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Galena Signal Oil Co. ("Galena"), Franklin, Pa.
National Refining Co., Cleveland, O.

## 7906— Oils (Horse)

American Reduction Co., Pittsburg, Pa.
Chelsea Refining Co., Chelsea, Okla.

## 7907— Oils (Illuminating)

Bayerson Oil Works, Erie, Pa.
Craig Oil Co., Toledo, Ohio
Derrick Oil Co., Titusville, Pa.
Emery Mfg. Co., Bradford, Pa.
High Grade Oil Refining Co., Pittsburg, Pa.
Island Petroleum Co., Pittsburg, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Loos & Dilworth, 134 S Front, Phila., Pa.
Mills, C. E. Oil Co., Syracuse, N. Y.
Mutual Refining Co., Warren, Pa.
National Refining Co., Cleveland, O.
Paragon Refining Co., Toledo, O.
Penn Refining Co., Oil City, Pa.
Petroleum Co., Cincinnati, Ohio
Standard Oil Co., 555 W 25th, New York
Texas Company ("Texaco"), 17 Battery pl, New York
Union Petroleum Co., 135 S 2d, Phila., Pa.
United Refining Co., Warren, Pa.

## 7908— Oils (Japan)

Sipe, Jas. B. & Co., N S, Pittsburg, Pa.
Thompson & Co., N S, Pittsburg, Pa.

## 7909— Oils (Japinol)

Columbia Refining Co., 90 West, New York

## 7910— Oils (Kerosene)

Great Western Oil Co. ("Palacelite"), Cleveland, O.
Gulf Refining Co., Pittsburg, Pa.
Indian Refining Co., Cincinnati, O.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Standard Oil Co., 555 W 25th, New York
Waverly Oil Works Co., Pittsburg, Pa.

## 7911— Oils (Lard)

Cataract Refining & Mfg. Co. (Mineral Lord), Buffalo, N. Y.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Louisville Cotton Oil Co., Louisville, Ky.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Sullivan Oil Co. (For Drilling, Cutting, etc.), 413 Wells, Chicago, Ill.

## 7912— Oils (Lawn Mower)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Mills, C. E. Oil Co., Syracuse, N. Y.
Nye, Wm. F. ("Nyoil"), New Bedford, Mass.
Sonneborn, L. Sons (Inc.), ("Amalia"), 262 Pearl, New York

## Oils (Linseed)

(See Linseed Oil & Cake Mills)

## Oils (Lubricating)

(See Lubricating Oils & Greases)

## 7913— Oils (Lustre)

Houghton, E. F. & Co. (For Velvet & Plush Mfgs.), 240 Somerset, Phila., Pa.

## 7914—Oils (Medicinal Petroleum)

Union Petroleum Co., 135 S 2d, Phila., Pa.

## 7915— Oils (Mineral Seal)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Island Petroleum Co., Pittsburg, Pa.

## 7916— Oils (Miners' Torch)

**INDIAN REFINING CO. ("Rarus," "Guiding Star"), 17 Battery pl, New York.** (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Standard Oil Co. ("Miner's Sunshine"), 555 W 25th, New York
Waverly Oil Works Co., Pittsburg, Pa.

## 7918— Oils (Neatsfoot)

Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Walton, F. S. Co., Orthodox & Del. River, Phila., Pa.

## 7919— Oils (Paint)

Akron Varnish Co., Akron, O.
Atlantic Paint Co., Cleveland, O.
Ball Chemical Co. ("Oxolin"), Pittsburg, Pa.
Chesapeake Oil Co., Baltimore, Md.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Kay & Ess Co. ("Datonia"), Dayton, O.
National Refining Co., Cleveland, O.
Peterson, T. J. Co. ("Yucatan"), 188 Madison, Chicago, Ill.
Viscol Co. (Condensed Paint & Varnish Oils), Cambridge, Mass.

## 7920— Oils (Palm)

Crooks, Rob & Co., 135 Front, New York
**DOGGETT, STANLEY, 101 Beekman, New York.** (See adv. index, end of book)
Marden, Orth & Hastings, 225 Purchase, Boston, Mass.
Osborn, A. & Co., 236 Milk, Boston, Mass.
Welch, Holme & Clark Co., 383 West, New York
Young, Frank L. & Kimball, Boston, Mass.

## 7921— Oils (Paraffine)

Craig Oil Co., Toledo, Ohio
Emery Mfg. Co., Bradford, Pa.
**INDIAN REFINING CO. (Other Than Floor), 17 Battery pl, New York.** (See adv. index & branch offices, end of book)
Manufacturers Paraffine Co., Chester, Pa.
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Penna Paraffine Works, Titusville, Pa.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 7923— Oils (Pine)

Atlantic Turpentine Co. (For Paints, Varnish, Soaps, Stains, Polishes, etc.), Savannah, Ga.
Carolina Pine Products Co., Cleveland, O.
Chesapeake Oil Co., Baltimore, Md.
Cromwell-Walker Co., Kearny, N. J.
Georgia Lumber & Turpentine Co. (Pure Pine), Cutting, Ga.
Mills, C. E. Oil Co., Syracuse, N. Y.
Sholes, Chas. E. Co. ("Long-Leaf"), 164 Front, New York

## 7923a—Oils (Pipe Threading)

Hosmer, G. A. Co., Buffalo, N. Y.

## 7924— Oils (Pistonite)

National Refining Co., Cleveland, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 7925— Oils (Red)

Craig Oil Co., Toledo, Ohio
Goodwin Mfg. Co., St. Louis, Mo.
**INDIAN REFINING CO. ("Sunset," "Champion," Engine, etc.), 17 Battery pl, New York.** (See adv. index & branch offices, end of book)
Manufacturers Paraffine Co. ("Victor"), Chester, Pa.
National Refining Co., Cleveland, O.
Schneider, E. & Co. (Saponified), Fisher bldg, Chicago, Ill.
Shaw, John & Co. (Turkey Red), Boston, Mass.
Sholes, Chas. E. Co., 164 Front, New York
Sonneborn, L. Sons (Inc.). ("Amalia"), Turkey Red), 262 Pearl, New York

## Oils (Road)

(See Road Binders & Preservatives)

## 7926— Oils (Rosin)

Binney & Smith Co., 81 Fulton, New York
Casey, Jno. A. Co., 144 Maiden la, New York
Continental Varnish & Color Co., Kansas City, Mo.
Magnus, Mabee & Reynard, 257 Pearl, New York
Mills, C. E. Oil Co., Syracuse, N. Y.
New York Rosin Oil & Varnish Co., 82 Beaver, New York
Peninsular Naval Stores Co., Jacksonville, Fla.
Sholes, Chas. E. Co., 164 Front, New York
Wilcox-Ives Oil Co., Savannah, Ga.

## 7926a—Oils (Rubbing)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)

## 7927— Oils (Safety Lamp)

Mills, C. E. Oil Co., Syracuse, N. Y.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 7927a—Oils (Screw Cutting)

(See Oils, Cutting & Polishing)

## 7928—Oils (Shingle Stain)

Cromwell-Walker Co., Kearny, N. J.
Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York
Mills, C. E. Oil Co., Syracuse, N. Y.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 7929— Oils (Signal)

Galena-Signal Oil Co. ("Galena"), Franklin, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 7930— Oils (Silk)

Mills, C. E. Oil Co., Syracuse, N. Y.
Sonneborn, L. Sons ("Amalia" for Textile Use), 262 Pearl, New York

## 7931— Oils (Skid)

Mills, C. E. Oil Co., Syracuse, N. Y.

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# LISTED PRODUCTS

## THE INDIAN REFINING COMPANY

(INCORPORATED)

## LUBRICATING OILS—

Black Oil
Brick Oil
Brick Oil Stock
Buffing Oil
Compressor Oils
Coruage Oils
Crank Case Oils
Crusher Oils
Cylinder Oils and Stocks
Dynamo Oils
Engine Oils
Gas Engine Oils
Gear Case Oils
Harvester Oil
Loom Oils
Machine Oils
Mineral Seal (300 Burning Oil)
Miners' Oils
Multiple Disk Oils
Neutral Oils (other than floor)
Paraffine Oils (other than floor)
Residuum
Rubbing Oils
Screw Cutting Oils
Separator Oils
Slushing Oils
Spindle Oils
Steam Auto Oils
Tanners' Oils
Tempering Oils
Transformer Oils
Transmission Oils
Turbine Oils
Valve Oils
Wool Oils
Worm Gear Oil

## RAILWAY LUBRICATING OILS—

### INDIAN—

Electric Compressor Oil
Electric Car Oil
Electric Crank Case Oil
Electric Cylinder Oil
Electric Dynamo Oil
Electric Engine Oil
Electric Gas Engine Oil
Electric Track Oil
Electric Turbine Oil
Electric Gear Grease
Electric Motor Grease

### INDIAN—

R. R. Car Oil
R. R. Coach Oil
R. R. Engine Oil
R. R. Valve Oil
Rod and Journal Grease
Signal Oil

# Lubricating Oils

## For Steam and Electric Railroads

On a Guarantee Basis Per Thousand Miles or Per Thousand Kilowatt Hours

**Also Shop Oils, Headlight Oils, Gasolines, etc.**

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Costs 1-2 as much as Creosote, 1-10 as much as other Coal Tar Products

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Jack Post Grease
Motor Grease
Pit Car Grease
Skid Grease
Soap Stock
Sponge Grease
Wax Tailings
Wax in Bbls. or Slabs

## AUTO. OILS and GREASES

Amber Auto. Oil
Crystal Auto. Oils
Cup Grease to Auto. Trade
Havoline Auto. Oils and Greases
Indian Auto. Oils and Greases

## REFINED OILS

Blue Grass Oil
Brilliant Light Oil
Fancy Water White
Foam Oil
Indian Fancy Burning Oil
Prime White
Starlight Oil
Torch Oil
Water White

## NAPHTHAS and GASOLINES

Deod. V. M. and P. Naphtha
Gloss Oil Naphtha
Indian Gasoline
Indian Spirits (Turpentine Substitute)
Royal Gasoline
All other Naphthas and Gasolines

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Indian Timberasphalt

## MISCELLANEOUS

Acid
Acid (Sludge)
Asphalt (Liquid)
Asphalt Binder
Crude Oil
Emulsion Oil
Fuel Oil
Gas Oil
Paint Oil
Road Oil

## INDIAN SPECIALTIES

All Axle Greases and Oils
All Coach Oils
All Cup Grease
All Floor Oils
All Hard Oils
Indian Belt Dressing (Liquid)
Indian Belt Dressing (Stick)
Indian Buffing Oil
Indian Cattle Spray
Indian Graphite Hard Oil
Indian Handy Lubricant
Indian Harness and Dipping Oils
Indian Harvester Oil
Indian Hoof Oil
Indian Household Machine Oil
Indian Insect Oil
Indian Rubbing Oils
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Indian Sewing Machine Oil
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IT IS NOT A CATALOG OF ADVERTISERS ALONE, BUT A COMPLETE REGISTER OF THE MANUFACTURERS AND JOBBERS IN EVERY LINE OF TRADE THAT COMES WITHIN THE SCOPE OF THE WORK.

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## 7932— Oils (Soluble)

**Anderson Chemical Co., Wallington, N. J.**
**Maas & Waldstein Co., 100 William, New York**
**National Oil & Supply Co., Harrison, N. J.**
**Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York**
**Shaw, John & Co., Boston, Mass.**
**Standard Oil Co., 555 W 25th, New York**
Thomsen Chemical Co., Baltimore, Md.
**Turkey Red Oil Co., 100 William, New York**

## 7933—Oils (Sperm & Whale)

Robinson, W. A. & Co., New Bedford, Mass.

## 7934— Oils (Tanners')

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
**Mills, C. E. Oil Co., Syracuse, N. Y.**
National Refining Co., Cleveland, O.
**Sonneborn, L. Sons (Inc.) ("Amalia"), 262 & Greases), 262 Pearl, New York**

## 7935— Oils (Tar)

**Carolina Pine Products Co., Cleveland, O.**
**Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York**
Mills, C. E. Oil Co., Syracuse, N. Y.
National Refining Co., Cleveland, O.
Sholes, Chas. E. Co., 164 Front, New York

## 7936— Oils (Tempering)

Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Mills, C. E. Oil Co., Syracuse, N. Y.
Robinson, W. A. & Co. (Sperm & Whale), New Bedford, Mass.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Swan & Finch Co., 151 Maiden la, New York
Zurn, O. F. Co., Broad & Lehigh, Phila., Pa.

## 7937— Oils (Tinners')

Chesapeake Oil Co., Baltimore, Md.
Macneal, Jas. B. & Co. ("Oriole"), Baltimore, Md.

## 7938— Oils (Transformer)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
**Mills, C. E. Oil Co., Syracuse, N. Y.**
National Refining Co., Cleveland, O.
**Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York**

## 7939— Oils (Turbine Engine)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
**Mills, C. E. Oil Co., Syracuse, N. Y.**
National Refining Co., Cleveland, O.

## 7940— Oils (Typewriter)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
**Mills, C. E. Oil Co., Syracuse, N. Y.**
Morton Mfg. Co. ("Morton" Odorless), Louisville, Ky.
National Refining Co., Cleveland, O.
Nye, Wm. F. ("Nyoil"), New Bedford, Mass.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 7940a— Oils (Valve)

**INDIAN REFINING CO., (R-R), 17 Battery** pl, New York. (See adv. index & branch offices, end of book)

## 7941— Oils (Vegetable)

**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Union Petroleum Co., 35 S 2d, Phila., Pa.

## 7942— Oils (Water-White)

Crew-Lewick Co., Land Title bldg, Phila., Pa.
Emery Mfg. Co., Bradford, Pa.
Great Western Oil Co., Cleveland, O.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Union Petroleum Co., 135 S 2d, Phila., Pa.

## 7943— Oils (Wood)

Anderson, Geo. & Co., 100 William, New York
Gillespie, L. C. & Sons, 8 Fletcher, New York
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Klipstein, A. & Co., 82 Beaver, New York
Lake Superior Iron & Chemical Co., Detroit, Mich.
National Refining Co., Cleveland, O.
Paterson, Boardman & Co., 10 Bridge, New York
**Peabody, Henry W. & Co., 17 State, New York**
Schmitz, C. & Co., 162 Greene, New York
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Winterbourne, S. & Co. (China), 94 Pine, New York

## 7944—Oils (Wool & Cordage)

Central Refining Co. (Cordage), Lawrence, Ill.
Gulf Refining Co. (Cordage), Pittsburg, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Union Petroleum Co., 135 S 2d, Phila., Pa.

## 7944a— Omnibus (Steel)

**FIRE-PROOF FURNITURE & CONS**truction Co. (Office & Vault), Miamisburg, Ohio. (See adv. index, end of book)

## 7945— Omnigraphs

Omnigraph Mfg. Co., 39 Cortlandt, New York

## 7946— Onyx Importers

American Onyx Co. (Kentucky Onyx), Indianapolis, Ind.
**BOCKMANN & SHEPARD, 1265-9 B'way, New York.** (See adv. index, end of book)
**Grace, Wm., 120 Front, New York**
**Jackson, C. D., 105th & E. R., New York**
**Tompkins-Kiel Marble Co., 505 5th av, New York**

## 7947— Onyx Workers

Christa Marble Co., Detroit, Mich.
**Empire City Marble Co., 250 11th av, New York**
**Fischer, Robert C. Co., E 139th & Locust**
Lautz Co., Buffalo, N. Y. av, New York
**McGratty & Sons, 335 Butler, Brooklyn, N. Y.**
**Marblecrete Products Co. ("Marblecrete" Imitation), Akron, N. Y.**
**New Pedrara Mexican Onyx Co. (Workers & Producers), San Diego, Cal.**
Pickel Marble & Granite Co., St. Louis, Mo.

## 7948— Openers (Bottle)

**ARCADE MFG. CO. ("Champion"** Wire Cutter & Crown Seal Remover), Freeport, Ill. (See adv. index, end of book)
**National Selling Co., Allentown, Pa.**

## 7949— Openers (Box)

**American Cutlery Co. (Steel Nickel-Plated Cigar Box, etc.), 764 Mather, Chicago, Ill.**
**ARCADE MFG. CO. ("Berry") Free**port, Ill. (See adv. index, end of book)
**Bonner, C. E. Mfg. Co. ("Victor" Drop Forged), Champaign, Ill.**
**Bridgeport Hardware Mfg. Corpn. ("Globe", "Matchless"), Bridgeport, Conn.**
**BUFFUM TOOL CO. ("Neerup's"),** Louisiana, Mo. (See adv. index & branch offices, end of book)
**Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.**
Grammes, L. F. & Sons, Allentown, Pa.
**Herculever Co. ("Herculever" Packing Box), 395 B'way, New York**
**Mellor Box Opener Co. ("Mellor" Box Opener, Nail Puller & Hammer), Sedalia, Mo.**
**National Selling Co. (Also Cigar Box), Allen-**
**S. & I. Co., Springfield, Mass. town, Pa.**
**Stortz, John & Son, 210 Vine, Phila., Pa.**
**Vaughan & Bushnell Mfg. Co. ("V. & B.", for Shoe Dealers, etc.), 2130 Carroll av, Chicago, Ill.**

## 7950— Openers (Can)

American Cutlery Co. ("The Only"), 764 Mather, Chicago, Ill.
Andrews Wire & Iron Works ("Chick" "North Pole"), Rockford, Ill.
**ARCADE MFG. CO. (Steel Blade,** Wood Handle), Freeport, Ill. (See adv. index, end of book)
Bridgeport Hardware Mfg. Co. ("Imperial," "Up to Date," "No. 5"), Bridgeport, Conn.
Brown, W. G. Mfg. Co. ("The Best," "None Such," "I. X. L.," "Shear Cut Clipper," etc.), Kingston, N. Y.
Browne & Dowd Mfg. Co. ("Never-Slip," "XXX," "Diamond," "Crescent," "Sprague," "King" & "Star," with Corkscrew), Meriden, Conn.
Cassady-Fairbank Mfg. Co. ("Superior," "Buckeye"), 6106 La Salle, Chicago, Ill.
Cronk & Carrier Mfg. Co. ("Perfect"), Elmira, N. Y.
Dover Stamping & Mfg. Co. ("Never Slip Monarch"), Cambridge, Mass.
Ellis Mfg. Co. ("Ever Ready," with Cork Screw & "Little Giant, "Dandy"), Milldale, Conn.
Fletcher, Terry & Co., Forestville, Conn.
**Forbes Chocolate Co. ("Vim"), Cleveland, O.**
Grammes, L. F. & Sons, Allentown, Pa.
Hamblin & Russell Mfg. Co. ("Ideal"), Worcester, Mass.
Knickerbocker Mfg. Co. ("20th Century"), Belleville, N. J.
**Kraeuter & Co., Newark, N. J.**
**Landers, Frary & Clark, New Britain, Conn.**
Lowentraut, P. Mfg. Co.
**Meisselbach, A. F. & Bro. ("Columbia"), Newark, N. J.**
Osborne, C. S. & Co. (Iron Handle), Harrison, N. J.
**Phoenix Hardware Mfg. Co., Homer, N. Y.**
Read, A. P. Co. ("Read's"), 427 W Randolph, Chicago, Ill.
**Rocky Hill Hardware Co., Rocky Hill, Conn.**
Smith, J. Barton Co., Norris & Hope, Phila., Pa.
**SMITH & HEMENWAY CO. (Lightning), 150 Chambers, New York.** (See adv. index, end of book)
Sperry & Alexander Co. ("Centaur"), 20 Warren, New York
Sterling Hardware Co. ("Sterling"), 10 Warren, New York
Superior Hardware Mfg. Co. ("Perfect" Can Opener & Cap Lifter), Detroit, Mich.
Taylor Mfg. Co. ("Yankee," "Nifty" & "Little Gem" Can & Bottle Opener), Hartford, Conn.
Wessman Tool Co. ("Rockford"), Rockford, Ill.
White, Ira F. & Son Co. ("Sure Cut"), Newark, N. J.
Wrightsville Hardware Co., Wrightsville, Pa.

## 7951— Openers (Cigar Box)

American Cutlery Co., 764 Mather, Chicago, Ill.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
**Bridgeport Hardware Mfg. Co. ("Box Terrier," "Nox Tox" Opener & Hammer, "Globe", "Matchless" Box Opener, Nail Puller & Hammer), Bridgeport, Conn.**
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
**National Selling Co., Allentown, Pa.**
Osborne, C. S. & Co., Harrison, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.

## 7951a— Openers (Crate)

**BUFFUM TOOL CO. (Hammer Head,** Bell Face, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)

## 7952— Openers (Egg)

Hartigan, W. R. ("Champion"), Collinsville, Conn.
Taplin Mfg. Co. ("Champion"), New Britain, Conn.

## 7952a— Openers (Fruit Jar)

S. & I. Co. ("Lightning," "Mason" Opener & Sealer), Springfield, Mass.

## 7953— Openers (Letter)

American Cutlery Co., 764 Mather, Chicago, Ill.
**Benedict Mfg. Co., East Syracuse, N. Y.**
**Celluloid Co., Newark, N. J.**
**Curtis, Albert B. ("Curtis"), Worcester, Mass.**
**Mossberg, Frank Co., Attleboro, Mass.**

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National Cutlery Co. (Nickeled Steel), Westmoreland & Boudinot, Phila, Pa.
Novelty Cutlery Co., Canton, O.
Tiley Pratt Co., Essex, Conn.
Wallace & Sons Mfg. Co., Wallingford, Conn.

## 7954—Openers (Sash Ventilator for Cars)

Wallace Supply Co. ("Wallace Deck"), 120 S Jefferson, Chicago, Ill.

## 7955—Opera Chairs & Assembly Seating

Allen Chair Co., Concord Junction, Mass.
Allen-Totman Co., 90 Canal, Boston, Mass.
American Seating Co., 215 Wabash av, Chicago, Ill.
Andrews, A. H. Co., 174 Wabash av, Chicago, Ill.
Fridman Seating Co., New Richmond, O.
Frost's Veneer Seating Co., Sheboygan, Wis.
Hardesty Mfg. Co., Canal Dover, O.
Milner, A. R. Seating Co., Canal Dover, O.
Minneapolis Office & School Furniture Co. Minneapolis, Minn
Moore Mfg. Co., Springfield, Mo.
Peabody School Furniture Co., North Manchester, Ind.
Readsboro Chair Mfg. Co., Readsboro, Vt.
Spencer Desk Co., San Francisco, Cal.
Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill
Whitaker & Ray Co., San Francisco, Cal.

## 7956— Ophthalmoscopes

Fowler, E. S. & W. S., 145 Wabash av, Chicago, Il
Meyrowitz, E. B., 104 E 23d, New York
Spencer Optical Co., 31 Maiden la, New Yor

## 7957—Ordnance (Light & Heavy)

Bethlehem Steel Co. (Of All Calibres), South Bethlehem, Pa.

## Ore Trestles & Tipples (Steel)

(See Tipples, Mine)

## 7957— Oreide

Hungerford, W. T. Brass & Copper Co. ("Star" Brand, Soft in Rolls), 497 Pearl, New York

## 7958— Ores (Aluminum)

Aluminum Ore Co., East St. Louis, Mo.
Continental-American Ore Co., Boston, Mass.

## 7959— Ores (Antimony)

Beer, Sondheimer & Co., 42 B'way, New York
Hill, Edw. & Sons, 71 Pine, New York

## 7960— Ores (Bauxite)

Continental-American Ore Co. (Imported), Boston, Mass.
Harrison Bros. & Co., 35th & Grays Ferry Rd., Philadelphia, Pa.
LEAVITT, C. W. & CO., 34 Church, New York (See adv. index, end of book
Lennig, Chas. & Co., 112 S Front, Phila., Pa.
Pennsylvania Salt Co., 115 Chestnut, Phila., Pa.

## 7961— Ores (Chrome)

AMERICAN REFRACTORIES CO. (Ground), 125 Clark, Chicago, Ill. (See adv. index, end of book)
Blair, Reed F. & Co., Frick bldg, Pittsburg, Pa.
HARBISON-WALKER REFRACTORies Co. (For Basic Open-Hearth Furnaces, etc.), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
LEAVITT, C. W. & CO., 34 Church, New York (See adv. index, end of book)
Lee, James & Co., 76 William, New York
Tennant, C. Sons & Co., 76 William, New York

## 7962— Ores (Copper)

Ajax Metal Co., 46 Richmond, Phila., Pa.
American Metal Co. (Ltd.), 52 Broadway, New York
Baerwald, Emil, 2 Rector, New York
Baltimore Copper Smelting & Rolling Co., Keyser bldg, Baltimore, Md.
Beer, Sondheimer & Co., 42 B'way, New York
Irvington Smelting & Refining Works, Irvington, N. J.
LEAVITT, C. W. & CO., 34 Church, New York (See adv. index, end of book)
Mountain Copper Co., San Francisco, Cal.
National Zinc Co., Bartlesville, Okla.
Nichols Copper Co., 25 Broad, New York
Peyton Chemical Co., San Francisco, Cal.
Tottenville Copper Co., Tottenville, N. Y.
United States Smelting, Refining & Mining Co., Boston, Mass.
Vogelstein, L. & Co., 42 B'way, New York

## 7962a— Ores (Garnet)

LEAVITT, C. W. & CO., 34 Church, New York (See adv. index, end of book)

## 7963— Ores (Gold)

Irvington Smelting & Refining Works, Irvington, N. J.
LEAVITT, C. W. & CO., 34 Church, New York. (See adv. index, end of book)
Peyton Chemical Co., San Francisco, Cal.

## 7964— Ores (Iron)

Addy, Mathew & Co., Cincinnati, O.
Beer, Sondheimer & Co., 42 B'way, New York
Boyertown Ore Co., Boyertown, Pa.
Breitung, E. N. & Co., Cleveland, O.
Cheever Iron Ore Co., Port Henry, N. Y.
Corrigan, McKinney & Co., Cleveland, O.
Debevoise-Anderson Co., 95 Liberty, New York
Hanna, M. A. & Co., Cleveland, O.
Hillman, J. H. & Son, Pittsburg, Pa.
La Belle Iron Works, Steubenville, O.
Lake Erie Ore Co., Cleveland, O.
Lake Superior Iron & Chemical Co., Detroit, Mich.
Lea, J. Tatnell & Co., Phila., Pa.
LEAVITT, C. W. & CO. (Agents), 34 Church, New York. (See adv. index, end of book)
Newport Mining Co., Milwaukee, Wis.
Oglebay, Norton & Co., Cleveland, O.
Oriskany Ore & Iron Corp., Irongate, Va.
Pickands, Brown & Co., Chicago, Ill.
Pickands, Mather & Co., Cleveland, O.
Piling & Crane, Phila., Pa.
Port Henry Iron Ore Co., 2 Rector, New York
Shenango Furnace Co. (Bessemer & Non-Bessemer), Pittsburg, Pa.
Snyder, W. P. & Co. (Bessemer & Non-Bessemer), Pittsburg, Pa
Tod-Stambaugh & Co., Cleveland, O.
Witherbee, Sherman & Co., 2 Rector, New York
Youngstown Sheet & Tube Co., Youngstown, O.

## 7965— Ores (Lead)

Beer, Sondheimer & Co., 42 B'way, New York
Irvington Smelting & Refining Works, Irvington, N. J.
LEAVITT, C. W. & CO., 34 Church, New York. (See adv. index, end of book)

## 7966— Ores (Magnesite)

AMERICAN REFRACTORIES CO., 125 Clark, Chicago, Ill. (See adv. index, end of book)
HARBISON-WALKER REFRACTORies Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Selby Smelting & Lead Co., San Francisco, Cal.

## 7967— Ores (Manganese)

Beer, Sondheimer & Co., 42 B'way, New York
Dana & Co., 32 B'way, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
LEAVITT, C. W. & CO., 34 Church, New York. (See adv. index, end of book)
Stanley's Creek Manganese & Iron Co. (Miners), Marion, Va.
Southern Manganese & Steel Co., Cave Spring, Ga., & Prudential bldg, Atlanta, Ga.
Tennant, C. Sons & Co., 76 William, New York

## 7968— Ores (Molybedenum)

Mineral Products Mfg. Co., Wilmington, Del.

## 7969— Ores (Platinum)

Irvington Smelting & Refining Works, Irvington, N. J.

## 7969a— Ores (Pyrites)

LEAVITT, C. W. & CO., 34 Church, New York. (See adv. index, end of book)

## 7970— Ores (Silica)

LEAVITT, C. W. & CO., 34 Church, New York. (See adv. index, end of book)

## 7971— Ores (Sulphur)

Arminius Chemical Co. ("Arminius"), 56 Wall, New York. Mines: Mineral, Va.
Davis Sulphur Ore Co., 82 Beaver, New York
Sulphur Mining & Railroad Co., Richmond, Va.

## 7972— Ores (Tungsten)

Atkins, Kroll & Co., San Francisco, Cal.
Mineral Products Mfg. Co., Wilmington, Del.

## 7973— Ores (Vanadium)

AMERICAN VANADIUM CO., 327 Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 7974— Ores (Zinc)

American Metal Co. (Ltd.), 52 B'way, New York
Beer, Sondheimer & Co., 42 B'way, New York
LEAVITT, C. W. & CO., 34 Church, New York. (See adv. index, end of book)
National Zinc Co., Bartlesville, Okla.

## 7975— Ores & Mattes

American Metal Co., 25 B'way, New York

## 7976— Organs (Church)

Ann Arbor Organ Co., Ann Arbor, Mich.
Austin Organ Co., Hartford, Conn.
Bates & Culley, 706 Mercy, Phila., Pa.
Beach & Freitag, Troy, N. Y.
Burlington Pipe Organ Co., Burlington, Iowa
Estey Organ Co., Brattleboro, Vt.
Farrand Co., Detroit, Mich.
Felgemaker, A. B. Organ Co., Erie, Pa.
Hall, H. & Co. (Pipe Organs), New Haven, Conn.
Haskell, Chas. S., 1520 Kater, Phila., Pa.
Hillgreen, Lane & Co., Alliance, O.
Howard, Emons, Westfield, Mass.
Hutchins- Votey Organ Co., Cambridge, Mass.
Kimball, W. W. Co., Wabash av & Jackson boul, Chicago, Ill.
Morey, Clarence E., Utica, N. Y.
Odell, Wm. H., 407 W 42d, New York
Schantz, A. J. Sons Co., Orrville, O.
Schuelke, Wm. Organ Co., Milwaukee, Wis.
Stein, Adam, Baltimore, Md.
Tellers Organ Co., Erie, Pa.
Viner & Son, Buffalo, N. Y.
Votey Organ Co., 362 5th av, New York
Woodberry, Jesse & Co., Boston, Mass.

## 7977—Organs (Military Band)

Dentzel, Gustave A., 3641 Gtn av, Phila., Pa.
Niagara Musical Instrument Co., No. Tonawanda, N. Y.
North Tonawanda Musical Instrument Co., No. Tonawanda, N. Y.
Parker, C. W., Abilene, Kan.
Wurlitzer, Rudolph Co., Cincinnati, O., & No. Tonawanda, N. Y.

## 7978—Ornamental Iron & Bronze Work (for Export)

SNEAD & CO. IRON WORKS, ft. of Pine, Jersey City, N. J. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

## 7979—Ornamental Radiator Screens

STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

## 7979a—Ornaments (Cast Iron)

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.

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## 7980—Ornaments (Composition)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Emmel, Chas. & Rose Co. (Papier Mache Compo Staff, Plaster, etc.), Boston, Mass.
Forman Bros., 645 Gates av, Brooklyn, N. Y.
Gossert, Henry, 320 Harmony, Phila., Pa.
Harsha, L. R. Mfg. Co., 2010 Carroll av, Chicago, Ill
Hartmann, Malcolm Co., 153 N Jefferson, Chicago, Ill.
Jennens, W. H. Mfg. Co., Kansas City, Mo.
Meislahn, C. F. & Co., 19 Clay, Baltimore, Md
Newcomb, F. J. Mfg. Co., 44 W 13th, New York
Ornamental Plaster Co., Cincinnati, O.
Plastic Relief Mfg. Co., 708 N Halsted, Chicago, Ill
Raubold & Lambin, 169 N Ann, Chicago, Ill.
Root, C. R., 104 Asylum, Hartford, Conn.
Rudolph, Oscar (Inc.), 32 E 22d, New York
Schneider, F. H., Syracuse, N. Y.
**SEIFERT, FRANK A. PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)
Walter, G. E. Co., 157 E 44th, New York
White, Potter & Paige Mfg. Co., 415 Willough by av, Brooklyn, N. Y
White & Maslen, 627 12th, Detroit, Mich.

## 7981— Ornaments (Fence)

(See Rosettes & Pickets, Iron; also Rosettes & Pickets, Steel)

## 7982— Ornaments (Gable)

**BERGER MFG. CO., THE, Main Office & Works, Canton, O.** (See adv. index & branch offices, end of book
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. (See adv. index & branch offices, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O

## 7983— Ornaments (Harness)

**Duranoid Mfg. Co. (Rings, Rosettes, etc.).** Newark, N. J.
Reynolds & Zahn Co., Newark, N. J.

## 7984— Ornaments (Lead)

National Lead Co., 111 B'way, New York

## 7985—Ornaments (Plastic)

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Bailey Co., 224 21st, Detroit, Mich.
Berger, H. Sons, 101 4th av, New York
Betkouskie, Martin F., Los Angeles, Cal.
Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
Dini, Geo. L., 497 Atlantic av, Brooklyn, N. Y.
Emmel, Chas. & Rose Co., Boston, Mass.
Farley, Wm. E. & Bro., 3635 Market, Phila., Pa.
Forman Bros., 645 Gates av, Brooklyn, N. Y.
Harnisch, Adolph Co. (Stucco), Syracuse, N. Y.
Heath, Thos., 42 N 11th, Phila., Pa.
Jennens, W. H. Mfg. Co., Kansas City, Mo.
Klee, Thomson Co., 327 E 40th, New York
Marks, W. A. Plaster Ornamental Mfg. Co., 726 W 5th, Cincinnati, O.
Ornamental Plaster Co., Cincinnati, O.
Plastic Relief Mfg. Co., 298 N Halsted, Chi-
Prior, Jas. V., Newark, N. J. cago, Ill.
Root, C. R., Hartford, Conn.
Schneider, F. H., Syracuse, N. Y.
**SEIFERT, FRANK A. PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo (See adv. index, end of book)
Standard Plastic Relief Co., Cincinnati, O.
Walter, G. E. Co., 157 E 44th, New York
Wilhelm, Florintine Co., Madisonville, O.

## 7986—Ornaments (Pressed Steel)

**WORCESTER PRESSED STEEL CO.** Worcester, Mass. (See adv. index, end of book)

## 7987—Ornaments (Sheet Metal)

Broschart & Braum, 601 W 130th, New York
**EDWARDS MFG. CO. (Metal Boats), 545-**565 Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Frand & Co., Camden, N. J.
**FRIEDLEY-VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
Gara, McGinley & Co., 23 S 17th, Phila., Pa.
Hergert, Theo. E. (For Cornices, etc.), 422 E 53d, New York
Jones, Thos. W. (For Towers, etc.), 22 Burling sl, New York
Michigan Hdw. Mfg. Co., Grand Rapids, Mich.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
Northwestern Roofing Cornice & Stamping Works, Minneapolis, Minn.
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Philadelphia Metal Stamping Co., 2215 Chestnut, Phila., Pa.
Porter Iron Roofing & Corrugating Co. (Metal Boats), 522 Culvert, Cincinnati, O.
Pruden Door & Window Co., Warner, Bayard & Dock, Baltimore, Md.
Rulofson Metal Window Works, San Francisco, Cal.
Saginaw Sheet Metal Works, Saginaw, Mich.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cin-
Thoresen, Wm., Chicago, Ill. cinnati, O.
**Thorn, J. S. Co., 20th & Allegheny av, Phila.,**
Weimer, C. A., Lorain, Ohio **Pa.**

## 7987a— Ornaments (Steel)

**BRAUN, J. G. (For Ornamental Iron** Work), 615 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)

## 7988—Ornaments (Transfer)

Decalcomania Co., 269 Dearborn, Chicago, Ill.
Meyercord Co. (Inc.) (Decalcomania), Chamber of Commerce, Chicago, Ill.
National Decalcomania Co., 250 N 60th, Phila., Pa.
Palm-Fechteler & Co., 67 5th av, New York

## 7989— Ornaments (Wood)

Bogert & Hopper (Carved, Turned & Grille Work, etc.), 162 William, New York
**Curtis Bros. & Co.** (For the Trade Only), Clinton, Ia.
**Curtis, Towle & Paine Co. (For the Trade Only), Lincoln, Neb.**
Estes, E. B. & Sons (Carved, Turned & Grille Work, etc.), 74 Warren, New York
**Foster-Munger Co. (For the Trade Only), W 20th & S Sagamon, Chicago**
**Gauger, Jno. A. & Co.** (For the Trade Only), W 22d & Laflin, Chicago, Ill.
**Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.**
**Harris & Cole Bros. (For the Trade Only), Cedar Falls, Ia., & Columbia, Tenn.**
Hyde-Murphy Co., Ridgway, Pa.
**McMillen, R. Co. (For the Trade Only), Oshkosh, Wis**
**Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago**
**New York Carved Moulding Co., 139th & Rider av, New York**
**Ohio Scroll & Lbr. Co., Covington, Ky.**
**Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.**
**Palmer, Fuller & Co. (For the Trade Only), 2244 Lumber, Chicago, Ill.**
Peirce, W. E. & Co., Milford, N. H.
**Roberts, E. L. & Co. (For the Trade Only), 22d & Union pl, Chicago, Ill.**
Rowe, Henry Mfg. Co. (Rosettes, Carvings, etc.), Newaygo, Mich.
Spanjer Bros., Newark, N. J.
**STEARNS, A. T. LUMBER CO., Ne**ponset, Boston, Mass. (See adv. index, end of book)
**Waddell Mfg. Co. (Rosettes, Carved, Grilles, etc.), Grand Rapids, Mich.**

## 7990— Ornaments (Zinc)

**FRIEDLEY-VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 7991— Oscellographs

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)

## 7992—Outriggers (Arc Lamp)

**Cutter, Geo. Co. ("Cutter's" Pulleyed, etc.),** South Bend, Ind.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 7993—Oven Builders (Brick & Portable)

Albrecht, Francis J. (Brick, Inside Heating, also Continuous), 1146 Penn av., Pittsburg, Pa.
American Oven & Machine Co. ("Peel," Brick), 59 Clark, Chicago, Ill.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Bailey Oven Co. (Brick), Bourse bldg, Phila., Pa.
**Barber & Turner** (Brick & Portable), 429 N Orianna, Phila, Pa.
Berkenbosch, Wm., St. Louis, Mo.
Blendinger, Fred'k A. (Brick), N S, Pittsburg, Pa.
Blodgett, G. S. Co. (Portable), Burlington, Vt.
Canfield, A. L. ("Monarch," Asbestos Lined, Portable), 97 Beekman, New York
Carroll, B. F. (Brick), Joliet, Ill.
Clad, V. & Sons, Inc. (Portable), 117 S 11th, Phila., Pa.
Clarey, Jas. ("O. X. O."), 438 W 48th, New York
Duhrkop Oven Co. (Brick), 15 Park Row, New York
Dumbleton, Thos. & Son (Brick), 619 Carlton av, Brooklyn, N. Y.
Evans & Eichner ("Willey" Portable), 85 E Lake, Chicago, Ill.
Fish, A. J. & Co. ("Fish" Rotary Brick), 131 N Canal, Chicago, Ill.
Gorndt Oven Co., 160 E Washington, Chicago, Ill.
Hall, S. L. & Co. (Brick), 156 E 18th, Chicago, Ill.
Heller, C. W. ("Heller," Brick), Galva, Ill.
Hilcher, Chas. G. (Brick), 3839 State, Chicago, Ill.
Hogberg Oven Co., Marquette bldg, Chicago, Ill.
Hubbard Portable Oven Co. (Portable), 1130 Belden av, Chicago, Ill.
Hydraulmatic Co. ("Stewart" Revolving Gas), Newark, N. J.
Ils, John G. & Co., 827 Mission, San Francisco, Cal.
Kosicky, W. (Brick), Detroit, Mich.
McDowell Oven Co. (Portable), 234 State, Boston, Mass.
Middleby Oven Mfg. Co. (Portable), 769 W Adams, Chicago, Ill.
Petersen Oven Co. (Brick), 166 Adams, Chicago, Ill.
Reid Portable Oven Co. (Portable), 14 Palace Arcade, Buffalo, N. Y.
Rinck, Jno. G., Cincinnati, O.
Rinck, Chas. & Bro., Cincinnati, O.
Roth, McMahon Co. (Portable), Evanston, Ill.
Schaller, Albert (Brick), Rochester, N. Y.
Schaller Patent Bake Oven Co. (Brick), Pike bldg, Cincinnati, O.
Seibt, Chas. W. (Brick), St. Louis, Mo.
Simmonds, Frank, 103 N 5th, Camden, N. J.
Simpkins, Alvin T. (Brick & Portable), 2731 Bacon, St. Louis, Mo.
Standard Oven Co. (Brick), Pittsburg, Pa.
Varney Heating & Mfg. Co. ("Revolving Reel"), Leavenworth, Kansas
Walz, Henry J. Co., Buffalo, N. Y.
Watkins, James Y. & Son, 16 Catherine, New York
Weiner & Meuhs (Portable), Cleveland, O.
**WERNER & PFLEIDERER (Steam** Pipe Draw Plates), Saginaw, Mich. (See adv. index, end of book)
Western Middleby Oven Co. (Portable), San Francisco, Cal.
Williams Oven Co. ("Williams" Sectional Brick), Hudson & Thomas, New York

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## 7994—Ovens (Annealing)

(See also Furnaces, Annealing & Case Hardening)

Wickes Bros., Saginaw, Mich.

## 7995— Ovens (Bread)

Blodgett, G. S. Co., Burlington, Vt.
Sloan Mfg. Co. ("Sloan-Oven" for Biscuits, Cakes, etc.), Kansas City, Mo.

## 7996— Ovens (Core)

Blodgett, G. S. Co. (Portable, Galvanized Iron), Burlington, Vt.
Brass Founders' Supply Co. (For Brass Fdrs.), Byram & Co., Detroit, Mich. Newark, N. J.
**CENTRAL IRON WORKS (Bureau &** Core Car Type), Quincy, Ill. (See adv. index, end of book)
Cullen-Atkinson Co. (Revolving), Hartford, Conn.
Dodge Mfg. Co. (Square & Rotary), Mishawaka, Ind.
Gehnrich, Ernest (Sectional Portable), 518 Water, New York
Gehnrich, Herman ("Gehnrich"), 69 Rutgers Slip, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Haarmann, G. & Co., Holyoke, Mass.
Hagan, Geo. J., Pittsburg, Pa.
Holcroft & Co., Detroit, Mich.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
McCormick, J. S. Co., Pittsburg, Pa.
Millett Core Oven Co., Springfield, Mass.
Monarch Engineering & Mfg. Co. ("Monarch-Acme"), Baltimore, Md.
**OSBORN MFG. CO., 5401 Hamilton** av, N. E., Cleveland, O. (See adv. index, end of book)
Paxson, J. W. Co., 1021 N Del. av, Phila., Pa.
Roberts Portable Oven Co. ("Black Diamond"), 400 W Erie, Chicago, Ill.
**ROCKWELL FURNACE CO., 26** Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**SMITH, J. D. FOUNDRY SUPPLY CO., 1846** Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)
Wadsworth Core Machine & Equipment Co., Akron, O.
Wellman-Seaver-Morgan Co., Cleveland, O.
**WHITING FOUNDRY & EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 7997— Ovens (Electric)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
International Instrument Co., Cambridge, Mass.

## 7998— Ovens (Enameling)

American Enamel Co., Providence, R. I.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Blodgett, G. S. Co. (Portable Galvanized Iron), Burlington, Vt.
Cullen-Atkinson Co. (Gas or Gasoline), Hartford, Conn.
Evans & Eichner ("Enterprise"), 85 E Lake, Chicago, Ill.
Gas Machinery Co., Cleveland, O.
Gehnrich, Ernest (Sectional Portable), 518 Water, New York
Gehnrich, Herman, 69 Rutgers Slip, New York York. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26** Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
Steiner, Emil E. (Heated by Gas), Newark N. J.
Turner Brass Works (Galvanized Iron, Portable), Sycamore, Ill.
U. S. Gas Furnace Co. (Drying or Baking), 159 Aborn, Providence, R. I.
Van Dorn Iron W'ks Co. (Japan), Cleveland, O
Wells, Fred. K. Co., 1328 B'way, New York
Westmacott Gas Furnace Co. (Drying or Baking), 159 Orange, Providence, R. I.

## 7999—Ovens for Dry Galvanizing

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 8000—Ovens (Gas & Oil Stove)

Adler, H. Co. ("Acme"), Carnegie, Pa.
Block, I. & Son ("Star"), 393 Pearl, New York
Brown Stamping Co., Toledo. O.
Clark, Geo. M. & Co. ("Jewell"), 82 Michigan av, Chicago, Ill.
Detroit Vapor Stove Co., Detroit, Mich.
Geisel, A. Mfg. Co. ("Ideal"), St. Louis, Mo.
Grinberg Bros. ("Eagle"), 154 South, New York
Hillson, Hyman M. & Co., Somerville, Mass.
Howes, S. M. Co., Boston, Mass.
Huenefeld, E. H. Co. ("Boss," with Glass Door), Cincinnati, O.
Kimball-Dieterich Hardware Co. ("Elgin").
Lasher Mfg. Co., Davenport, Ia. Elgin, Ill.
Lawson, F. H. Co., Cincinnati, O.
National Enameling & Stamping Co., 374 B'way, Odin Stove Mfg. Co., Erie, Pa. New York
Ohio State Stove Co., Columbus, O.
Royal Polished Steel Roaster Co. ("Troy"), Troy, O.
Schneider & Trenkamp Co. ("Reliable"), Cleveland, O.
Silver & Co., 312 Hewes, Brooklyn, N. Y.
Weiskittel, A. & Son, Baltimore, Md.
Wonder Mfg. Co. ("Crown"), Washington C. H., Ohio
Wotherspoon, Jas. R., 238 N Front, Phila., Pa.

## 8001—Ovens (Japanning or Baking)

Blodgett, G. S. Co. (Portable Galvanized Iron), Burlington, Vt.
Gehnrich, Ernest (Sectional Portable), 518 Water, New York
Gehnrich, Herman ("Gehnrich"), 69 Rutgers Slip, New York
Gas Machinery Co., Cleveland, O.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Oven Equipment & Mfg. Co. (Sectional Ovens & Gas Burners), Stamford, Conn.
**ROCKWELL FURNACE CO., 26** Cortlandt, New York. (See adv. index, end of book)
Steiner, Emil E. (Heated by Gas), Newark.
Turner Brass Works, Sycamore, Ill. N. J.
U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.
Van Dorn Iron Works Co. (Japanning), Cleveland, O.
Wells, Fred K. Co., 1328 B'way, New York

## 8002— Ovens (Sherardizing)

**GLOBE MACHINE & STAMPING CO.** ("Globe"), 3868 Hamilton av., Cleveland O. (See adv. index, end of book)

## 8003—Ovens (Wire Bluing)

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

## Overhead Tracking

(See Trolley Tracks)

## 8004— Oxide of Copper

Harshaw, Fuller & Goodwin Co., Cleveland, O.
Sholes, Chas. E. Co., 164 Front, New York
Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 8005— Oxide of Iron

**AMERICAN STEEL & WIRE CO., Commercial National Bank Bldg., Chicago, Ill.** (See adv. index & branch offices, end of book)
Atas Paint Co., Uashville, Tenn.
Avery Chemical Co., Boston, Mass.
Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)
Pittsburg Iron Paint Co., Pittsburg, Pa.
Roessler-Hasslacher Chemical So., 100 William, New York
Sholes, Chas. E. Co., 164 Front, New York
Smith, J. Lee & Co., 19 Jacob, New York
**Western Oxide & Specialty Co. ("Western" for Gas Purification, 21st & Jefferson, Chicago, Ill.**
Wetherill, S. P. Co. (Pure), 925 Chestnut, Phila., Pa.
Wiarda, Jno. C. & Co., Brooklyn, N Y.
Williams, C. K. & Co. ("Anchor Brand" Dry), Easton, Pa.

## 8006— Oxide of Lead

**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Harrison Bros. & Co., 35th & Gray's Ferry rd, Phila., Pa.
National Lead Co. (For Glass, Rubber, Color & Varnish Makers, etc.), 111 B'way, New York
Scheel, Wm. H. (Red, etc.), 159 Maiden la, New York
**SCHULE, F. H. CO., 114 Liberty,** New York. (See adv. index, end of book)
Sholes, Chas. E. Co. ("Litharge"), 164 Front, New York
Wetherill, S. P. Co. (Red, etc.), 925 Chestnut, Phila., Pa.

## 8007—Oxide of Manganese

Fuerst Bros. & Co., 2 Stone, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Roessler-Hasslacher Chemical Co. (Black), 100 William, New York

## 8008— Oxide of Zinc

**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Gabriel & Schall ("Anchor Brand"), 205 Pearl, New York
Hanna & Andrus Mfg. Co., Chicago, Ill.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Mallinckrodt Chemical Works, St. Louis, Mo.
Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill. Works: Mineral Point, Wis.
New Jersey Zinc Co. ("Red Seal," "Green Seal"), 55 Wall, New York
Sholes, Chas. E. Co., 164 Front, New York
Smith, J. Lee & Co., 19 Jacob, New York
Wetherill, S. P. Co., 925 Chestnut, Phila., Pa.
Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 8009— Oxide (Red)

(See Oxide of Lead)

## 8010— Oxide (Tin)

Harshaw, Fuller & Goodwin Co., Cleveland, O.
Johnston & Jennings Co., Cleveland, O.
Loraine Smelting & Refining Co., 115 Dearborn, Chicago, Ill.
Roessler-Hasslacher Chemical Co., 100 William, New York
Wiarda, John & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 8011— Oxone

Roessler & Hasslacher Chemical Co. (For Producing Oxygen), 100 William, New York

## 8012— Oxy-Acetylene

American Oxygen Co., Perry bldg, Phila., Pa. Works, Camden, N. J.

## 8013—Oxy-Acetylene Blow Pipes

**GOODYEAR, NELSON (Inc.) (For** Reclaiming Defective Castings of All Kinds), 50 Church, New York. (See Adv. at Welding, Autogenous)
**MacLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**MacLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)

## 8013a—Oxy-Acetylene Equipment For Cutting & Welding

**GOODYEAR, NELSON (Inc.), 50** Church, New York. (See Adv. at Welding, Autogenous)

## 8014— Oxygen

Sowers Mfg. Co. (For Welding), Buffalo, N. Y.

## 8015— Oxymur

Cochrane Chemical Co., Boston, Mass.

## 8016— Ozokerite

Smith & Nichols (Imported), 48 South, New York

## 8017— Ozone Apparatus

Standard Electro-Utilities Co., 312 5th av, Chicago, Ill.

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## 8018–Ozonizers (Electric)

Standard Electro-Utilities Co. ("Vohe" Ozonized Air), 312 5th av, Chicago, Ill.

## 8019– Ozonizers (Water)

Federal Electric Co., Lake & Desplaines, Chicago, Ill.

## Packers (Cement)

(See Packing Machines; also Bag Filling Machines)

## Packers (Flour, Bran & Feed)

(See Packing Machines; also Bag Filling Machines)

## 8020– Packers (Oil Well)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co. (Rubber), Bloomfield, N. J.
Diamond Rubber Co., Akron, Ohio
Dresser, S. R. Mfg. Co., Bradford, Pa.
Larkin Bros., Bartlesville, Okla.
Larkin & Co., Butler, Pa.
McElwaine Co., Bradford, Pa.
Masseth Packer & Machine Works ("Masseth's"), Butler, Pa.
Morgan & Wright (Inc.), (Rubber), Detroit, Mich.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 8021– Packers (Shingle)

Diamond Iron Works, Minneapolis, Minn.
Lane Mfg. Co., Montpelier, Vt.
Mitts & Merrill, Saginaw, Mich.
Trevor Mfg. Co., Lockport, N. Y.

## 8022– Packing (Air)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetze's" & "Goetzerit"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
**DETROIT LEATHER SPECIALTY** Co., Inc. ("Wear-Well" Leather), Detroit, Mich. (See adv. index, end of book)

## 8023– Packing (Asbestos)

American Asbestos Co., Metallic Sheet, Asbestos Rod, Ring, Wick, Rope & Braided), Norristown, Pa.
**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetzerit"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Asbestos Fibre Spinning Co., North Wales, Pa.
Boonton Rubber Co. (Hard Rubber & Asbestos Rings), Boonton, N. J.
Calmon Asbestos & Rubber Works of America ("Asbestolith"), 102 Reade, New York
Carey, Philip Mfg. Co. (Asbestos, Air, Ammonia, Hydraulic, Pump, Steam, etc.), Lockland, O.
Combination Rubber & Belting Co. (High Pressure), Bloomfield, N. J.
Crandall Packing Co., Palmyra, N. Y.
Garlock Packing Co., Palmyra, N. Y.
General Asbestos & Rubber Co., Charleston, S. C.
**JOHNS, H. W.-MANVILLE CO. ("J-M** Kearsarge," Asbestos-Metallic Sheet, "J-M Permanite"), 100 William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co. ("Gladiator" Asbesto Metallic, etc.), Camden, N. J.
New York Asbestos Mfg. Co., 80 John, New York
**STRONG MACHINERY & SUPPLY CO** ("Strong's Tisafine" Grapho Asbestos Valve & Piston & Sheet), 48 Franklin, New York. (See adv. index, end of book)
United States Asbestos Co. ("Usaco," "Carbuline"), Manheim, Pa.
Vulcan Asbestos Mfg. Co., 40 Gold, New York
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8024–Packing (Asbestos, Metallic, Cloth)

**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8025– Packing Box Mfrs.

### ARKANSAS.

HELENA—Reeves W. D. Lumber Co.

### CALIFORNIA.

SAN FRANCISCO—California Pine Box & Lumber Co.
Columbus Box Factory
Mercantile Box Co.
National Box Factory
Pacific Box Factory
Standard Box Co.

### COLORADO.

DENVER—Denver Crate & Box Co.
Hallack & Howard Lumber Co.

### CONNECTICUT.

BRIDGEPORT—Hoffman, H. C. & Co.
HARTFORD—Rockwell, John W.
NEW HAVEN—Brett, Edward P.
Hubbell & Merwin Co.
McLean, Andrew
Sperry & Amos Co.

### GEORGIA.

TIFTON—Provident Lumber Co.

### ILLINOIS.

ALTON—Illinois Box Co.
BUSHNELL—Bushnell Tank Works Bushnell, Ill.
CHICAGO—Acme Box Co., 619 S Clinton
American Box Co., ft of Illinois
Chicago Mill & Lumber Co., 140 W Chicago av
Chicago Packing Box Co., of Illinois, 850 N Sangamon
Goodwillie Bros. (Also Wausau, Wis.), 171 Lasalle
Goodwillie, D. M. Co. (Pine & Hardwood), W 22d & Centre av
Illinois Packing Case Co., 723 Carroll av
Maxwell Bros. Co., Loomis c W 21st
Paepcke-Leicht Lumber Co., W Chicago av & N Sangamon
Rathborne, Hair & Ridgway Co., Union & Lumber
Soper Box Co. (Pine, Hemlock, etc.), 838 Loomis, c W 22d
Tegtmeyer, Charles W., 759 S Canal
GENEVA—Cannon Box Co.
SPRINGFIELD—Abbott Bros.

### INDIANA.

ELWOOD—Indiana Box Co.
INDIANAPOLIS—Ballweg & Co.
Dietz, Fred Co.

### IOWA.

BURLINGTON—Third Street Box Co.
KEOKUK—Carter, S. C. & S. Co.
MUSCATINE—South Muscatine Lumber Co.

### KENTUCKY.

COVINGTON—Acme Box & Shook Co.
LOUISVILLE—Bell & Coggeshall Co. (Specialties, Tobacco & Canning Boxes)
Mengel Box Co.
Tyler Box Co.
MAYFIELD—Mayfield Planing Co.

### LOUISIANA.

NEW ORLEANS—Aleus, S. T. & Co. (Ltd.)
Bates-Hussy Box Co. (Ltd.)
Central Mfg. & Lumber Co.
Fleurichant, Emile L.
Hasam Box & Planing Mill
Pelican Shingle Co.

### MAINE.

AUBURN—Conant, F. R. & Co.
Hutchins, H. Wesley Co.
Page, N. L. & Son Co.
BANGOR—Walker, James Co.
BIDDEFORD—Deering-Proctor Box Co.
BREWER—Smith Planing Mill Co.
BRIGHTON—Brighton Mfg. Co.
CHERRYFIELD—Wilson, E. K. (Est. of)
GARDINER—Gliddon Bros. Box Co.
PORTLAND—Brackett, J. L. & Co.

### MARYLAND.

BALTIMORE—Asendorf, Wm. H. & Co.
Becker Bro. & Son, Lexington & Fkd.
Ctnon Box Co., 2515 Boston
Dorsey, William Co.
Dreyer, H. D. & Co., Concord & Lombard
Duker, J. H. Box Co., Aliceanna, cor, Fortenbaugh, Charles, 636 W Pratt Eden
Louis, Henry D.
Radecke, H. F. & Sons, 177 W Cross
Rittler Box Co. (Inc.), 621 S Caroline
Schmuck, Fressman & Co., 1816 Lancaster
Thiemeyer, J. H. Co. (Inc.), 901 S Caroline
Wheatfield, Jacob, 517 W German
EAST BROOKLYN—East Brooklyn Box Co.
HURLOCK—Thompson, G. A. & Son.

### MASSACHUSETTS.

ACUSHNET—Acushnet Saw Mill Co.
AMHERST—Angus, Nelson E.
ANDOVER—Hardy & Cole
BEVERLY—Copp, A. W. & Co.
Frost Box Co.
BOSTON—Booth, J. R., 88 Broad
Le Baron, S. T., 135 Border, E. B.
Manwell, F. P. & Co., 190 A
Snow, Abbott L., 406 Border, E B.
BROCKTON—Bonney, E. L.
Woodbridge, F. L.
CAMBRIDGE—Page, Geo. G. Box Co.
CHELSEA—Atwood & McManus
Parsons Mfg. Co.
DANVERS—Derry, Fred J.
ENFIELD—Woods, C. D.
FALL RIVER—Lunan, E. S. & Co.
Varney, Isaac & Sons Co.
FITCHBURG—Cook, Ornan S.
Priest, C. A. Lumber Co.
FOXBORO—Pond, Virgil S. & Co.
GEORGETOWN—Hardy, W. C.
GLOUCESTER—Merchant Box & Cooperage Co
Perkins, Geo. & Son
GREENFIELD—New England Box Co.
HAVERHILL—Haverhill Box Co.
Hayes, C. H. Corporation
Island Park Box Co.
Owens, John & Co.
Tapley, I. W.
HOLYOKE—Merrick Lumber Co.
HUDSON—Tripp, N. G.
LAWRENCE—Pingree, D. W. Co.
LOWELL—Allen, Otis & Son
Cady, Geo. L. & Sons
Cheney, Frank P.
Cummings, F. G.
Davis & Sargent Lumber Co.
Greenfield Box Co.
Thompson, James A.
MALDEN—Vaughan, S. E.
MEDWAY—Medway Box Co.
MIDDLEBORO—Clark & Cole Co.
NATICK—Natick Box Co.
NORTH ADAMS—Dibble, S. B. Lumber Co.
NORTON—Sweet, A. H. & Son
PETERSHAM—Carter, J. A.
READING—Symonds, O. P. & Sons
ROCKLAND—Studley, Gideon
SALEM—Irving, W. A.
SOUTHBRIDGE—Clemence, J. M. & L. D.
Ide Lumber Co.
SPRINGFIELD—West; F. M. Box Co.
WEST BOYLSTON—Lowe, Harry E.
WHITMAN—Slack, Chas. P.
WILLIAMSBURG—Bradford, G. M.
WORCESTER—Baker Box Co.
Williams & Bridges Co.

### MICHIGAN.

BAY CITY—Bay City Box & Lumber Co.
Bindner, J. F. Box Co.
Bradley, Miller & Co.
Handy Bros., Station A.
Nickless, W. H.
Vance, E. J. Box Co.
DETROIT—Acme Box Co.
Backus, A. Jr. & Sons
Berster, John
Grigg, Hanna Co.
Restrick, Chas. W. Lumber Co.
Weber, J. F. & Co.
GRAND RAPIDS—Dupree, John & Co.
Fuller & Rice Lumber & Mfg. Co. (Inc.)
MARQUETTE—Read, F. W. & Co.
MENOMINEE—Crawford Mfg. Co.
Fisher & Hutchenson Co.
Peninsular Box & Lumber Co.
MUSKEGON—La Belle Box Co.
SAGINAW—Mershon, Eddy, Parker Co.
WHITEHALL—Nufer Cedar Co. (Hardwood Boxes & Crates)

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## MINNESOTA.

CLOQUET—Cloquet Box Co. (White Pine)
DULUTH—Duluth Box Mfg. Co.
Petruschke Box & Lumber Co.
Wallinder, E. G.
MINNEAPOLIS—Bolton Lath & Shingle Machinery Co.
Coffin's Box & Lumber Co.
Smith, C. A. Lumber Co.
ST. PAUL—Minnesota Box Co.
Osgood & Blodgett Mfg. Co.
Villaume Box & Lumber Co.

## MISSOURI.

KANSAS CITY—Chapman & Dewey Lumber Co.
Forrester-Nace Box Co.
Inman Box Co.
United Box Mfg. Co.
ST. JOSEPH—Letts, W. T. Box & Cooperage Co.
ST. LOUIS—Alt Box Mfg. Co., 174 Carroll
Cannon Lumber & Box Co., 2000 Gratiot
Chicago Mill & Lumber Co., 200 Chouteau av
Columbia Box Co., 19th & N Market
Excelsior Box & Mfg. Co., 2805 N 12th
Fehlig Bros. Box Mfg. Co., 1909 Wash'n
Gaus, Henry & Sons Mfg. Co., 2100 N Main
Goessling, Wm. F. Box Co., Blair av & Mul-lanphy
Heibel, P. & Sons Co., 1505 S 2d
Loy-Lange Box & Lumber Co., 2106 S 3rd
Mengel Box Co., Folsom av & Lawrence
Mound City Box Factory
Olcott, Chas. A. Planing Mill Co.
Phoenix Planing Mill Co., 12th & Spruce
Pooman, H. B. Box Mfg. Co.
St. Louis Box Factory, 721 S 2d
Woods & Down Box Co.

## NEVADA.

RENO—Nevada Planing Mill Co.

## NEW HAMPSHIRE.

EAST JAFFREY—Stalton, C. L.
KEENE—Fowler, H. J.
Norwood, Chas. M. & Son
Reed, J. Mason (Est. of)
LISBON—Parker & Young Co.
MANCHESTER—Fellows & Son
Hodge, Jeremiah
Smith Box & Lumber Co.
West Side Lumber Co.
MILFORD—Peirce, W. E. & Co.
NASHUA—American Box & Lumber Co.
STATE LINE—Lamon, Walter S.

## NEW JERSEY.

CAMDEN—Coles, C. B. & Sons Co.
JERSEY CITY—Dodge & Bliss Co.
Vanderbeek & Sons
NEWARK—Doolittle, Henry N.
Neary, J. J. Box & Lumber Co.
Ripley, David & Sons Lumber & Timber Co.
Zipfel, John, Jr.
TRENTON—Armstrong, Hugh (Est. of)

## NEW YORK.

ALBANY—Draper, Henry W.
Romeyn, T. F. Co.
Valentine, W. T. & Son
BUFFALO—Buffalo Box Factory
Elias, G. & Bro., 605 Elk
Glasstone Co., 110 Seneca
Graves, Manbert, George & Co.
MacLean Box Factory
Montgomery Bros. & Co.
Niagara Box Co., 826 S Division
Zeis, M. & Sons, 200 Cherry

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Eckert, John A., 54 Hopkins
Goodman & Gavin, 351 Metropolitan av
Haws, William, 154 9th av
Reeves, George H., 290 Greene
Smith, E. C., 420 Oakland

### Boroughs of Manhattan & Bronx.

NEW YORK—Abbey, Frank R., 634 1st av.
Appell, Aaron, 227 Mercer
Armstrong, Eliza J., 87 White
Bieg & Mayer, 6 Gold
Burdick, I. N., 138 Wooster
Buse, Fred'k, 1110 1st av
Carroll Box & Lumber Co., 629 E 18th
Doernberg & Goodman, 737 E 9th
Dunbar Box & Lumber Co., 282 11th av
Dunbar, John, 124 Worth
Dunning Varney Co., 99 Warren
Eckert, John A., 314 Pearl
Epstein & Vollweiler, 814 5th
Fagan, James & Son, 204 W Houston
Finkelstein Packing Box Co., 118 Bleecker
Fitzgerald, James H., 8 W 13th
Gerow, Emma, 251 W 27th
Gilmour & Korn, 23 Bond
Gottlieb, M. & Sons, 20 Clarke
Green, A. H. Co., 97 Warren
Greenfield Box Co., 21 Gold
Gunshor, G., 37 Thompson
Hill, Frank J., 5 Beekman
Kidney, George, 7 Walker
Lauterstein, Sarah, 222 Wooster
Lavelle, Peter J., 224 Mulberry
Manhattan Box Co., 737 E 9th
Manhattan Packing Case Co., 133 Crosby
Merrall, F. R. & Co., 505 E 18th
Mitchell & Moffett, 54 Crosby
Moore C., 3 Wooster
Neely, John & Son, 741 E 9th
New England Box Co., 90 W B'way
O'Brien & Mosher, 223 Greene
Patterson, Thos. G., 637 W 55th
Prato, Paul, Jr., 178 Wooster
Qua, James, 357 W. B'way
Riley, Mary E., 384 Pearl
Rosenthal & Cohen, 53 Great Jones
Ross, Benj. F., 8 Bond
Ryan, J. M., 541 W. Bway.
Ryan, Martin, 132 Mercer
Ryan, P., 109 Reade
Schutz Bros., 71 W B'way
South Side Mfg. Co., 114 Warren
Todd, Thomas, 315 E 22d

**(End of New York City)**

ROCHESTER—Newberry, C. K.
Rochester Box & Lumber Co.
Traders Box & Lumber Co. (Nailed or Dovetailed)
SYRACUSE—Lyons, John H.
Merriam Mfg. Co.
Piquet Box & Lumber Co.

## NORTH CAROLINA.

HICKORY—Hutton & Bourbomais Co.

## OHIO.

CINCINNATI—Aman & Sandman
Beck, Walter G.
Conklin, E. A. Box Co., 2001 Reading rd
Kenker, Fred'k Sr., 3904 North Bend rd
McWilliams & Schulte
Queen City Box Co., Flint & Wade
Tyler, H. A. & Co., 1041 Evans
Unnewehr, Frank & Co.
Wildberg Box Co.
CLEVELAND—American Box Co.
Cleveland Box Co.
Dunn, James Box Co., 1949 W 3d, S W
Forest City Box Co., 315 Central Av, S W
Hahn, J. N. Co., Cuyahoga c W 4th, S W
National Box Co., 257 Jefferson av
Saginaw Bay Box Co., 1897 W 3d, S W
Valley Box Co.
Wiggins, Fred B., 1826 Columbus rd, N W
COLUMBUS—Fletcher, B. C.
Rood Lumber Co.
DAYTON—Gondert & Lienesch
SANDUSKY—Sandusky Lumber & Box Co.
TOLEDO—Phoenix Box Factory
Western Manufacturing Co.
Wilson, George & Sons Co.

## OREGON.

PORTLAND—Multnomah Lumber & Box Co.
Standard Box & Lumber Co.

## PENNSYLVANIA.

CHESTER—Hamilton, James M.
PHILADELPHIA—Atkinson, Margaret D., 4314 Josephine, F'k'd
Carnwarth, Bell & Co., 613 Cherry
Carver, E. S. & Son, 2663 Cadwaader
Datz, Chas. F., 482 N 5th
Davidson, D. H., 2005 Washn av
Douglass, Edwin D., 437 N 5th
Foley, John J., 1938 Morris
Galbraith, John (Est. of), 619 Commerce
Gould, Wm. G., 2924 Rorer
Jones, Samuel & Sons, 2230 Hamilton
Kees, Wm. J., 113 N Orianna
Keystone Box Mfg. Co., 223 Wood
Kugler, Geo. W. & Sons, 918 N Front
Lamont, Andrew, 1931 S Chadwick
McCauley, J. & W., 636 Filbert
Martin, John, 1432 N 6th
Meisle, G. & Bro., 217 New
Mench, S. B. & Co., 2031 E Fletcher
Meyer, William, 206 Quarry
Nichols, Clayton W., 918 Beach
Orr, Wm. L., 1613 S 19th
Pearson, Jos. T., 1825 E Boston
Philadelphia Packing Box Co., 2634 N American
Provident Lumber Co., Water c Dickinson
Quaker City Packing Box Co., 701 E Girard av
Rice, T. B. & Sons Co., Mifflin st wharf
Ritner, F. B. & Co., 2712 N 2d
Schweitzer, Joseph & Sons, 915 E Montgomery av.
Shoemaker's, J. B. Sons, Clearfield & Front
Tait, Andrew Box Co., 1740 Ludlow
Treen Box Co. (Inc.), Tioga & Memphis
Wilson, Andrew, Wilde c Kram's av, M'y'k
PITTSBURG—Anchor Box Factory, 378 Woodville av.
Duquesne Box & Lumber Co.
Keystone Box Co., 19 Miller
Kress, F. J. Box Co., 2020 Liberty av
McClure, Alex. Box Co.
Standard Box & Lumber Co.
READING—Deysher, Abner S.

## RHODE ISLAND.

PASCOAG—Lapham, Myron D.
PAWTUCKET—Polsey, J. N. & Co.
PROVIDENCE—Presbrey, A. A. & Son Co.
Providence Box & Lumber Co.
Talbot Bros. Co.
Sweet, A. H. & Sons

## TENNESSEE.

CHATTANOOGA—Chattanooga Box & Lumber Co.
HUMBOLDT—Jarrell & Co.
KNOXVILLE—Holston Box & Lumber Co.
MEMPHIS—Delta Box Mfg. Co.

## VERMONT.

BENNINGTON—Bingham, J. B.
Evans, L. N. & Co.
BURLINGTON—Crane, W. & D. G.
Hickok, Horatio Co.
Robinson-Edwards Lumber Co.
MORETOWN—Ward, Hiram O.
RICHMOND—Richmond Lumber Co.
STAMFORD—Tudor, John

## VIRGINIA.

PETERSBURG—Virginia Lumber & Box Co.
RICHMOND—Lea, David M. & Co. (Pine)

## WASHINGTON.

SEATTLE—Bennett, H. L.
Queen City Lumber Co.
Stetson & Post Mill Co.
Warren, Alfred
SPOKANE—Musser, Wm., Lumber & Mfg. Co.
TACOMA—Pacific Box Co.

## WISCONSIN.

ASHLAND—Lake Superior Lumber & Box Co.
CATO—Killen, W. N.
EAU CLAIRE—Linderman Box & Veneer Co.
FOND DU LAC—Bates, C. E.
GRAND RAPIDS—Badger Box & Lumber Co.
GREEN BAY—Green Bay Box & Lumber Co.
HAZELHURST—Yawkey-Bissell Lumber Co.
JANESVILLE—Magee Bros.
MANITOWOC—Drost H. Box Mfg. Co.
Schnorr Bros. Co.
MARINETTE—Marinette & Menominee Box Co.
Marinette & Menominee Box Co.
MERRILL—Collar, W. G. Lumber Co.
MILWAUKEE—Beck, C. A. & Son, Sixth & East
Hays, George, 228 5th
Kieckhefer Box Co., Canal & 16th St. viaduct
Mueller & Son Co., 445 Canal
National Box Co., 534 American av
OCONTO—Oconto Company
SHEBOYGAN—Sheboygan Binding & Box Co.
WASHBURN—Kenfield & Lamoureaux
WATERLOO—Neupert & Budwig
WAUKESHA—Waukesha Mfg. Co.
WAUSAU—Goodwillie Bros.
Wausau Box & Lumber Co.
Wisconsin Box Co.

## 8025a—Packing (Condenser)

**WHEELER CONDENSER & ENGINEERING** Co. ("Wheeler" Improved), Cartaret, N. J. (See adv. index & branch offices, end of book)

Goodsell Packing Co., 117 S Canal, Chicago, Ill. N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

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## 8026– Packing (Flax)

Anchor Packing Co. ("Ankorite"), Gtn. & Allegheny avs, Phila, Pa.
**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York (See adv. index, end of book)
Combination Rubber & Belting Co. (Standard Square), Bloomfield, N. J.
Crandall Packing Co., Palmyra, N. Y.
Goodsell Packing Co., 117 S Canal, Chicago, Ill.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index, end of book)
Sayen, Osgood, Arcade bldg, Phila., Pa.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's Best"), 48 Franklin, New York (See adv. index, end of book)
Tucker & Carter Rope Co., 76 South, New York
Wing, J. T. & Co., 19 Woodward av, Detroit, Mich.

## Packing (Hard Fibre)

(See Fibre, Hard)

## 8027– Packing (Hemp)

**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York (See adv. index, end of book)
Hoover & Allison Co., Xenia, O.
Jacobs Cordage Co., Cincinnati, O.
Overman & Schrader Cordage Co., Covington, Ky.
Sayen, Osgood, Arcade bldg, Phila., Pa.
Tucker & Carter Rope Co. (Twisted), 76 South New York

## 8028– Packing (Hydraulic)

**AMERICAN - GOETZE GASKET &** Packing Co. ("Goetze's"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
Anchor Packing Co. ("Ankorite" Waterproof, Flexible, Rubber Cushion, Metal Faced, etc.), Gtn. & Allegheny avs, Phila, Pa.
**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Carey, Philip Mfg. Co. (Asbestos), Lockland ,O.
Chicago Rawhide Mfg. Co. (Rawhide), 1301 Elston av, Chicago, Ill.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Works, Cleveland, O.
Combination Rubber & Belting Co. (Hard & Semi-Hard Rings), Bloomfield, N. J.
**DETROIT LEATHER SPECIALTY** Co., Inc. ("Wear Well" Leather), Detroit, Mich. (See adv. index, end of book)
Dixie Packing Co. ("Dixie"), Atlanta, Ga.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**Kendrick Valve & Washer Co., Syracuse, N. Y.**
Morgan & Wright (Inc.) ("Cadillac" White Seal Core, etc), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National Leather Mfg. Co. (Rawhide Leather), Niles, Mich.
National Rawhide & Belting Co. (Rawhide), Niles, Mich.
Sayen, Osgood, Arcade bldg, Phila., Pa.
Schlichter Jute Cordage Co. (Jute Sail Wrapping, Tobacco, etc.), 20 N Front, Phila..
Steel Mill Packing Co., Detroit, Mich. Pa
**STRONG MACHINERY & SUPPLY CO.** "Strong's Aquaproof"), 48 Franklin, New York. (See adv. index, end of book)
Universal Flexible Packing Co. ("Universal", Flexible), 3109 Penn av, Pittsburg, Pa.
Walker, Chas. W. (Leather), Newark, N. J
Western Rawhide & Belting Co. (Rawhide). Milwaukee, Wis.
Whitehead Bros. Rubber Co., Trenton, N. J.
**Wilpaco Packing Co. ("Wilpaco"), 114 Liberty, New York**
Wing, J. T. & Co., Detroit, Mich.
Wolverine Leather Goods Co., Detroit, Mich.

## 8029–Packing (Journal Box)

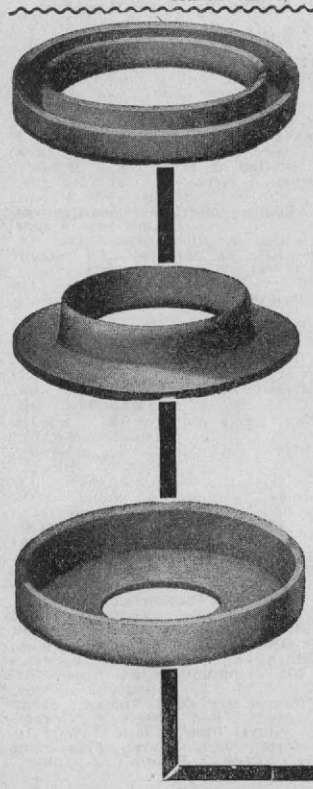
Flower Waste & Packing Co. ("Flower's," Resilient), 90 West, New York

## 8030– Packing (Jute)

American Mfg. Co., 63 Wall, New York
Bailey, John T. & Co., c Water & Tasker, Phila, Pa.
**COLUMBIAN ROPE CO., Auburn,** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Jacobs Cordage Co. (Hemp), Cincinnati, O.
**LESCHEN, A. & SONS ROPE CO., 920 N 1st, St. Louis, Mo.** (See adv. index, end of book)
**NEW YORK CORDAGE CO. ("Nycord" Gasket, Tarred & Untarred), 85** Wall, New York. (See adv. index, end of book)
Overman & Schrader Cordage Co., Covington, Ky.
Schlichter Jute Cordage Co., 20 N. Front, Phila., Pa.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's" Round Twist Jute), 48 Franklin, New York. (See adv. index, end of book)
Winnie, F. W. & Son (Tarred & Untarred), 237 Market, Phila., Pa.

## 8031– Packing (Leather)

Auburn Leather Goods Co., Auburn, N. Y.
Barwood, L. J. Co. ("Barwood"), Boston, Mass.
Chicago Raw Hide Mfg. Co. ("Krome"), 1301 Elston av, Chicago, Ill.
**DETROIT LEATHER SPECIALTY** Co., Inc. ("Wear Well," Hydraulic Leather), Detroit, Mich. (See adv. index, end of book)
Dixie Packing Co. ("Dixie"), Atlanta, Ga.
Graton & Knight Mfg. Co. (Flat), Worcester, Mass.
Houghton, E. F. & Co. (Hydraulic "Vici"), 240 W Somerset, Phila., Pa.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Kendrick Valve & Washer Co., Syracuse, N. Y.
National Leather Mfg. Co. (Rawhide), Niles, Mich.
Providence Belting Co. ("U" & Leather Hydraulic Packing), Providence, R. I.
Q. M. S. Co. (Cup Leather), Plainfield, N. Y.
Robertson, Jno. & Co. (Hydraulic), 127 Water, Brooklyn, N. Y.
Schieren, Chas. A. & Co., 30 Ferry, New York
**STRONG MACHINERY & SUPPLY CO.** ("Strong's"), 48 Franklin, New York. (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.** ("Union," "Long Life"), 215 Ontario, Chicago, Ill. (See adv. index, end of book)
Wolverine Leather Goods Co., Detroit, Mich.

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**DETROIT LEATHER SPECIALTY COMPANY, Inc.**

38 Beecher Avenue

DETROIT, - - MICHIGAN


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# 8032— Packing Mfrs.

(See also Belting & Belt Appliances; also Mill & Factory Supplies; also Mineral Wool; also Pipe & Boiler Coverings, various kinds; also Waste, Cotton & Wool Mfrs.;

## ALABAMA.

MOBILE—American Supply Co. ("Asco")
**BOSTON BELTING CO. (Turner Supply Co., Rep.),** 23 S. Commerce. (See adv. index, end of book)

## CALIFORNIA.

SAN FRANCISCO—Barton Packing & Rubber Co. ("Comet," Ring & Spiral, "Thistle," Oil Packing & "Vesuvius" High Pressure "B. B.")
**BOSTON BELTING CO., 55 1st.** (See adv. index, end of book)
Bowers Rubber Works ("Dodds," "Victor," "Sunset," "Seal Rock," "Bay City," "Plumbesto," "Native," "Red Sunset," "Guardian," "Golden Gate," "Seal Rock," "Reliance & "Skookum" Diagonal Cross Expansion Piston Rod)
Cook, H. N. Belting Co. ("Palmetto" Twist, all Asbestos)
Gorham Rubber Co. (Rubber)

## CONNECTICUT.

HARTFORD—Hartford Engine Works ("St. John" Self-Adjusting Cylinder)
Hartford Rubber Works Co. ("Sunrise" Rubber)
**JOHNS-PRATT CO., THE ("Vul-**
Cabeston" Round or Flat, for Steam. Water, Gas & Acids)
WINSTED—Goodwin & Kintz Co. (Metallic)

## DELAWARE.

WILMINGTON — **DELAWARE HARD** Fibre Co. (Vulcanized Fibre). Works: Marshalltown, Del. (See adv. index, end of book)

## GEORGIA.

ATLANTA—**BOSTON BELTING CO.** Southern Belting Co., Rep.), 40 S Forsyth. (See adv. index, end of book)
Dixie Packing Co. ("Dixie," Ammonia, Hydraulic, Leather, Metallic & Steam)

## ILLINOIS.

AURORA—Aurora Metal Co. (Metallic)
Udstad, S. (Elastic)
CHICAGO—Adkins, Young & Alen Co. ("A. Y. A."), 109 Canal
Advance Packing & Supply Co. ("Mico" Square Flax Frictionless, Steam & Waterproof, "Trio," "Bestallic," "Durability", "High Pressure"), 123 Franklin
Allen, W. D. Mfg. Co. ("The Arrow"), 151 Lake
Ambrose & Spalding ("Primo," Sheet, Moulded Ring), 42 Michigan av
**BOSTON BELTING CO., 177 Lake.** (See adv. index, end of book)
**CARPENTER, GEO. B. & CO. (Jobbers for "Peerless," "Rainbow" & "Eclipse"),** 202 S Water. (See adv. index, end of book)
Cassco Bar-Metallic Packing Co. (Metallic), 140 Dearborn
Chicago Bailey Co. ("Chief's Own," Metallic), 260 S Clark
Chicago Engineer Supply Co. ("Salamander," "Boyleston," "Graphobesto"), 112 Lake
Chicago Fire-Proof Covering Co. (Steam), 27 Michigan av
Chicago Rawhide Mfg. Co. ("Mabbs" Rawhide Hydraulic), 1301 Elston av
**CONTINENTAL RUBBER WORKS** (Of Erie, Pa.) ("Continental," "Tribune," "Liberty"), 131 N Canal. (See adv. index, end of book)
**CRANE CO. ("Klingerit"), 519 S** Canal. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO.** ("Femco," Coil & Sheet), 481 Wabash av. (See adv. index & branch offices, end of book)
Goodsell Packing Co. ("Metal-Boston," "Dollar," "New Century" & "Sleeve"), 117 N Canal
High Speed Metallic Packing Co. (Metallic), 40 Michigan av
Jerome & Elliott ("Jerome," Metallic Valve Stem Piston Rod), 1120 W Monroe
Mabbs Hydraulic Packing Co. ("Mabbs" Rawhide), Board of Trade bldg
Mechanical Rubber Co. (Rubber), 230 Randolph
**PENNSYLVANIA RUBBER** Works, 1241 Michigan av. (See adv. index, end of book)
**RYERSON, JOS. T. & SON ("Re-**gal" Metallic), 2558 W 16th. (See adv. index, end of book)
**SWAIN LUBRICATOR CO. (Metallic, Piston, Valves, Stem, etc.),** Lake & S Water. (See adv. index, end of book)
Ward Packer Supply Co. ("W-P," Metallic), Fisher bldg
**WATSON, H. F. CO. (of Erie, Pa.)** (Asbestos Braided, Piston Rod, Core Wicks, etc.), 319 Wells (See adv. index, end of book)
Wilcox, E. A. Mfg. Co. ("Target" Valve Stem, Stop Valve Steam), 6330 Stony Island av
Western Packing & Supply Co. ("W. P. S." & "Casco" Metallic), 253 La Salle

## INDIANA.

GOSHEN—Western Rubber Co. (Rubber Sheet)
INDIANAPOLIS—**BOSTON BELTING CO.** (Taylor Belting Co., Rep.), 247 S Meridian. (See adv. index, end of book)
Pioneer Brass Works ("Deeds" Metallic)
NEW ALBANY—Bowman, D. F. (Railroad)

## KENTUCKY.

COVINGTON—Overman & Schrader Cordage Co. (Hemp, Jute, for Water Mains, etc.)
LEXINGTON—American Metallic Packing Co. (Metallic)
LOUISVILLE—**BOSTON BELTING CO.** (W. & A. C. Semple, Rep), 311 W Main. (See adv. index, end of book)
Cook, Lee C. Mfg. Co. ("Cook's." Piston Rod, etc.)

## LOUISIANA.

NEW ORLEANS—**BOSTON BELTING CO.** (Southern Belting Co. of New Orleans, Rep.), 718-720 Union. (See adv. index, Southern Packing Mfg. Co. end of book)

## MAINE.

BANGOR—**BOSTON BELTING CO. (M.** Schwartz & Sons, Rep.) (See adv. index, end of book)
PORTLAND—Clark Flexible Metallic Packing Co.

## MARYLAND.

BALTIMORE—**BOSTON BELTING CO.** (Carey Machinery & Supply Co., Rep.), 119 E Lombard. (See adv. index, end of book)
Maryland Belting & Packing Co.

## MASSACHUSETTS.

BOSTON—American Steam Packing Co. ("20th Century," "Diamond," "Smoky City" & "Favorite"), 51 High
Anderson, G. P. (Engine & Pump), 163 Oliver
**BOSTON BELTING CO. (Rubber,** "Forsyth" Combination, Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Piston, "Noxall" Ring, etc.), 260 Devonshire. (See adv. index, end of book)
Chesterton, A. W. & Co. ("Metalbestos," "Unbrobestos," "Vaporited," "Rubberbestos" "Redbestos," "Metal Asbestos," "Sunset," "Pressure Proof," "Expansion," "Atlantic," "Combination," "High Pressure," "Live Steam," "Carson")
Curry Oil & Supply Co. ("Superba," "Mica Para," "Mica Asbestos"), 284 Franklin
Eagle Oil & Supply Co. ("Eagleine," Ring Square Flax, Hydraulic, etc.), 104 Broad
Federal Metallic Packing Co. ("Standard," Flexible Metallic Fibred Compound for Ammonia, Air, Steam, Truck Boxes, etc.), 164 Canal
Greenwood Mfg. & Supply Co. ("Greenwood," "Mica-Asbestos," Rod & Piston, etc., & "Mica Para," Sheet; "Ring & Spiral:" also Gum Core & Square Flax & Crescent Red Sheet), 12 Pearl
Hart Packing Co. ("Hart" Heat Proof), 145 High
Ireson, C. L. ("Blue Blood"), 221 High
Knowlton, Geo. W. Rubber Co. ("Brassite," "Fraser," "G. W. K.," "Hub," "Knowlton," "Manila"), 60 Pearl
Merrill, W. B. & Co. ("Tripp" Metallic), 74 India
Revere Rubber Co. ("Usudurian," "Red Crescent," "Black Hawk," "Samson," "Shawmut," "Beacon," "Giant," "Revero," "Black Cross," "Four Ace," "Harlem," "Hi-Heat"), 77 Bedford
**SILVER LAKE CO. (Braided, "Miller's** Soapstone"), 78 Chauncey. (See adv. index, end of book)
Trainer, C. W. Mfg. Co. (Asbestos Metallic), 89 Pearl,
Walworth Mfg. Co., 132 Federal
**WATSON, H. F. CO. (of Erie, Pa.)** (Asbestos Braided, Piston Rod, Core Wicks, etc.), 79 Milk. (See adv. index, end of book)
CAMBRIDGE—Gould Printing Co. (Ring, etc.)
GREENDALE—Newton Mfg. Co. ("Vellumoid")
NEWTONVILLE—Knowlton Packing Co. ("Lubron" Lubricated & Rubber)

## MICHIGAN.

DETROIT— **DETROIT LEATHER SPE-**cialty Co., Inc. ("Wear Well" Hydraulic Leather). (See adv. index, end of book)
Morgan & Wright (Inc.) ("White Seal," "Economy," "Morganite," "Triangle," "Nagrom," "Cadillac" & "Excellent" Tucks)
Steel Mill Packing Co. ("Safety" Plastic Metallic ("Hi-Steam"), 42 Larned av
Wing, J. T. & Co. (Rubber)
KALAMAZOO — **NEW ERA MFG. CO.** ("New Era" Self-Lubricating Metallic Engine Packing), (See adv. index, end of book)
Wolverine Leather Goods Co. (For Ice Machine, Hydraulic, Flange & "U" Packings)
NILES—National Leather Mfg. Co. (Rawhide Leather, Self-Lubricating)

## MINNESOTA.

DULUTH—Imperial Iron Works ("Imperial" Metallic)
ST. PAUL—**BOSTON BELTING CO.** (Crane & Ordway Co., Rep.), 5th & Rosabel. (See adv. index, end of book)
Northern Metallic Packing Co. (Metallic)
SOUTH STILLWATER—Ideal Metallic Packing Co. ("Ideal" Metallic)
WINONA—Union Fibre Co. (Fibre Waste)

## MISSOURI.

KANSAS CITY—**BOSTON BELTING CO.** (English Tool & Supply Co., Rep.), 410 W 5th. (See adv. index, end of book)
Kansas City Rubber & Belting Co.
ST. LOUIS—**BOSTON BELTING CO.** (Handlan-Buck Mfg. Co., Rep.), 210 N 3d. (See adv. index, end of book)
Caldwell Belting & Mfg. Co. ("Monarch Tri-Section," "Graples," "Metallic," All Kinds), 809 W Main
Morrison, Robt. ("Morrison" Self-Lubricating), 5034 Arsenal
Pilley Packing & Flue Brush Mfg. Co. (Wedge Ring & Braided, for Steam, Water, Ammonia & Hydraulic)

## NEW JERSEY.

BLOOMFIELD—Combination Rubber & Belting Co. ("Dr. Braun's," also Cloth or Wire Insertion, Sheet, Ring, Round, Square, etc.)
BOONTON—Boonton Rubber Co. (Hard Rubber & Asbestos Ring, etc.)
CAMDEN—New Jersey Asbestos Co. ("Gladiator" Asbestos Metallic)
COLLINSWOOD — Allen, Jos. ("Monitor," "Bitous")
HAMILTON SQUARE—Sayen Rubber Co. ("Redbreast," Rubber, Plumbago, Oil Proof, Asbestos, etc.)
HARRISON — **WALSH'S SONS & CO.** (See adv. index, end of book)
JERSEY CITY—Johnson, Henry Co. (Ring, Spiral, Hydraulic, Square Flax, etc.), foot of Gates av
N. J. Car Spring & Rubber Co. ("Gibraltar" Black Sheet, Antimony Red Sheet), R. R. av., c. Brunswick
**SMOOTH-ON MFG. CO., ("Smooth-on** Iron Cement & "Smooth-On" Asbestos Sheet), 572 Communipaw av. (See adv. index, end of book)
Voorhees Rubber Mfg. Co. ("Nubian," Sheet, "Long Life," "Red Sheets," "Graphobestos," "Royal Blue," Cloth or Wire Insertion Sheet, Spiral, Square Flax, Gum Core, Dry Dock, "Federal," "Union")

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NEW BRUNSWICK—**AMERICAN-GOETZE** Gasket & Packing Co. (All Kinds for All Purposes, "Goetze's," "Goetzerit," "Rex" & "Ideal"), 46 Paterson. (See adv. index, end of book)
PASSAIC—Manhattan Rubber Mfg. Co. (Rubber)
TRENTON—Acme Rubber Mfg. Co. (Rubber Cortay Packing Co. Sheet)
Crescent Belting & Packing Co. ("Sunset" & "Capital")
Empire Rubber Mfg. Co. ("Amazon" "Alabama," "Cardinal," "Faust," "Gem," "Hercules," "Merrimac," "Model," "Monitor," "Paragon," "Perfect," "Reliance" & "Sterling")
Hamilton Rubber Mfg. Co. (Rubber)
**HOME RUBBER CO. ("O. I. M.",** "Red Rose" & "N. B. O." Rubber). (See adv. index, end of book)
Mercer Rubber Co. ("Red Breast" Rubber Plumbago, Oil Proof Asbestos, etc.)
Stokes, Jos. Rubber Co. ("Red Seal" Rubber)
Thermoid Rubber Co. ("Black Bear" & "Thermidore" Rubber, "Solaroid" Red Sheet)
United & Globe Rubber Mfg. Co. (Rubber)
Whitehead Bros. Rubber Co. ("C. I.," "C. B. S." Rubber, Red Sheet)
Woven Steel Hose & Rubber Co. ("Defender" Rubber)

## NEW YORK.

ALBANY—Albany Rubber Tire Co. (Rubber)
**BUFFALO—BOSTON BELTING CO. (of** Boston, Mass.) (Rubber, "Forsyth," Combination Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Piston, "Noxall," Ring, etc.), 90 Pearl. (See adv. index, end of book)
Lake Erie Boiler Compound Co. ("Ideal," Pump Valves & Plunger)
CLIFTON SPRINGS—Judd & Leland Mfg. Co. (Leather)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Ambrose Machine Co. ("Ambrose" Metallic Self-Adjusting Piston), Provost & Eagle
Clinton Mfg. Co. ("Banner," "Red Cross," "Vim," "Montauk"), 83 Grand av
Houchin-Aiken Co. ("Law" Metallic), 39 53d

### Boroughs of Manhattan & Bronx.

NEW YORK—American Huhn Metallic Packing Co. (Metallic), 410 E 32d
American Mfg. Co. (Jute), 63 Wall
**BOSTON BELTING CO. (of Boston,** Mass.) (Rubber, "Forsyth," Combination, Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Piston, "Noxall," Ring, etc.), 100 Reade. (See adv. index, end of book)
Brandon, Jas. ("Brandon," Balanced Cylinder Ring), 390 11th av
Brandt, Randolph ("Selden," Square Flap, "Enterprise," "Zena," "Magneto"), 70 Cortlandt
Buhne Metal Packing Co. (Metallic), 99 Nassau
Burgmann, Feodor ("Burgmann's" Janos Plate Asbestos Sheets), 5 Beekman
Calmon Asbestos & Rubber Wks. of Am. ("Asbestolith" Sheet & Asbestos Metallic Sheet), 100 Reade
Cockburn Co. (Metallic), 30 Church
Colgan Mfg. & Supply Co. ("Colgan," High Pressure & Sheet), 42 South
Common Sense Metal Packing Mfg. Co., 223 E. 23rd
Danubil Co. ("Danubil," Steam), 253 B'way
Duval Metallic Packing Co. (Metal), 111 B'way
Edgecumbe, J. C. & Co. ("Edgecumbe" Elastic Metal), 100 William
Ehret Magnesia Mfg. Co. (Of Phila.), 80 Wooster
Empire Rubber Mfg. Co. (Rubber, All Kinds), 148 Chambers
Eureka Packing Co. ("Eureka," Rod, etc.), 74 Murray
Excelsior Valve Co. (Water), 108 Fulton
Gilmour, R. M. Mfg. Co. (Asbestos), 105 John
Goodyear Rubber Co. ("Pioneer" & "Gold Seal"), 787 B'way
Greene, Tweed & Co. ("Crescent," "Manhattan," "Palmetto," "Royal" & "Union"), 109 Duane
Gutta Percha & Rubber Mfg. Co. ("Red Jacket" & "Pyramid"), 126 Duane
Huhn Metallic Packing Co. ("Huhn," Metallic), 410 E 32d
Imperial Rubber Co., 253 B'way
Jenkins Bros ("Jenkins 96"), 82 White
**JOHNS, H. W.-MANVILLE CO.** ("Vulcabeston," "J-M Kearsarge," "J-M Mogul," "J-M Hydro," "J-M Liberty" Wick & Rope Air Brake Ring, Metallic, "J-M Triplex"), 100 William. (See adv. index, end of book)
Katzenstein, L. & Co. (Metallic & Flexible Tubular Metallic), 358 West
Keasbey & Mattison Co., 100 John. Works, Ambler, Pa.
Kern Commercial Co. ("Kernite" High Pressure Steam), 114 Liberty
Kilroy Piston Ring Co. ("Kilroy" Piston Ring), 74 Cortlandt, New York
Magnolia Metal Co. ("Magnolia," Metallic), 117 Bank
Manhattan Rubber Mfg. Co. ("White Enamel," "Kertlandt," "Magnet," "Mohican," "Viking," "Fulca," "Torpedo," "Headlight," "Golden Fleece," "Walrus," "Raven," "Delhi," "Carilissi," "Parvenito," "Paranite" Sheet Rubber), 18 Vesey
Mechanical Rubber Co., 73 Reade
Metropolitan Rubber Co. (Rubber), 310 6th av
Mineralized Rubber Co., 18 Cliff
New York Asbestos Mfg. Co. (Asbestos, Flat, Rope & Wick), 80 John
New York Belting & Packing Co. (Ltd.) (Pure Sheet, Cloth Insertion Sheet, "Ruby" Sheet, "Salamanda" Sheet, "Cobb's" Round, Square & Spiral Piston, "Amazon" Waterproof Hydraulic, "Magic" High Pressure, Square & Rubber Back Piston), 91 Chambers
**NEW YORK CORDAGE CO. ("Nycord"** Jute, Gasket & Tarred & Untarred Jute), 85 Wall. (See adv. index, end of book)
New York Insulated Wire Co. ("Lightning Non-Tubular"), 114 Liberty
**NEW YORK RUBBER CO., Reade** & Church. (See adv. index, end of book)
Pearson, J. H. Supply Co. ("Vellumoid" Sheet), 122 Centre


# PACKINGS

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Peerless Rubber Mfg. Co. ("Artic," "Germane," "Hercules," "Honest John," "Peerless," "Rainbow," "Success," "Uniphite" & "Zero"), 88 Chambers
**PENNSYLVANIA RUBBER CO.**, 1741 B'way. (See adv. index, end of book)
Power Specialty Co. ("Duval," Metallic), 111B'way
Premier Engineering & Mfg. Co. ("Premduro" Metallic), 25 Broad
Rhodes Improved Metallic Packing Co. ("Rhodes" Metallic), 123 Liberty
Roberts, Geo. I. & Bros. (Inc.) (Square, Flax Packing), 471 4th av
Robertson, Jas. L. & Son (Inc.) ("Eureka"), 78 Murray
Saunderson & Wright ("Nonesuch," "American"), 465 W B'way
Schieren, Chas. A. & Co. (Leather), 30 Ferry
**STRONG MACHINERY & SUPPLY** Co. (Steam, Ammonia, Hydraulic, Asbestos, etc., "Tisafine," "Dichtungsgummi," "Grapho-Asbestos," "Cocheco," "Rivalite," "Wolverine," "Kingfisher," "Crown" & "Bull Frog Rivalite," "Grapho Rivalite," "Featherlite" Metallic), 48 Franklin. (See adv. index, end of book)
Tucker & Carter Rope Co. (Italian & American Twisted Hemp), 76 South
United States Indestructible Gasket Co., 50 Church
Vanda Co. ("Vanda"), 96 Spring
Von Kokeritz, R. G. & Co. ("Durable," "Hydra," "Heather"), 114 Liberty
Vulcan Asbestos Mfg. Co. ("Vulcabestos"), 40 Gold
Williamson & Co. ("Silver," "Perfect"), 123 Liberty
Wilpaco Packing Co. ("Wilpaco," Hydraulic), 114 Liberty

**(End of New York City)**

PALMYRA—Crandall Packing Co. (All Kinds for All Purposes, "Helios," "Hymol," "Regina")
Dealers' Steam Packing Co. (Hemp & Flax)
Garlock Packing Co. (All Kinds for All Purposes)
Triumph Steam Packing Co.
SYRACUSE—Kendrick Valve & Washer Co. (Leather)
TROY—Hammett, H. G. ("Trojan" Metallic)
Monarch Steam Blower Co. ("Sterling" Metallic)

## OHIO.

AKRON—Akron Metallic Gasket Co. ("Fibrebestos," "Mephisto" Metallic)
Diamond Rubber Co. (Rubber "Indian Red", "Silver Leaf", "Black Diamond", "Koh-I-Noor" & "Volunteer")
**GOODRICH, B. F. CO. (Sheet, Piston & Valve Rod Packings in All Styles & Grades)**
Goodyear Tire & Rubber Co.
CINCINNATI—Acme Supply Co. ("Excellent"), 717 Main
**BOSTON BELTING CO. (Queen City Supply Co., Rep.)**, 201 W Pearl. (See adv. index, end of book)
Bradford Belting Co.
Cincinnati Gasket & Packing Co.
Cincinnati Rubber Mfg. Co. (Rubber)
Nuhring, Chas. & Bro. ("I. X. L." Spiral, Square, Ring, etc.), 907 Walnut
CLEVELAND — **BOSTON BELTING CO.** (W. Bingham Co., Rep.), 1433-1455 9th, N. W. (See adv. index, end of book)
Cleveland Rubber Works ("Marco")
Consumers' Rubber Co. ("Superior"), 1407 W 6th, N W
Crown Mfg. Co. ("Plasticpac," Metallic), Rockefeller bldg
Mechanical Rubber Co. ("Marco," "Jupiter," "Saturn," "Hyperion," "Tucks," "I. X. L.," "Buckeye," "Kaffir." "Plum Para," "Bengal," "Monarch" Rubber)
Northern Chemical Co. ("Norpacko," Semi-Metallic Plastic)
COLUMBUS—Tippett Mfg. Co. (Metallic)
ELYRIA—Metallic Packing & Mfg. Co. ("20th Century," "Martell." Metallic)
IRONTON—Ironton Engine Co. (Metallic)
LOCKLAND—Carey, Philip Mfg. Co. (Asbestos, etc.)
OBERLIN—National Metallic Packing Co. (Metallic)
TOLEDO—**BOSTON BELTING CO.** (Boswick Braun Co.) (See adv. index, end of book)

## OREGON.

PORTLAND — **BOSTON BELTING CO.**, 105 1st. (See adv. index, end of book)

## PENNSYLVANIA.

ALLENTOWN—**BOSTON BELTING CO.** (Wm. H. Taylor & Co., Rep.), 230 Hamilton. (See adv. index, end of book)
AMBLER—Keasbey & Mattison Co. (Cylinder & Steam Asbestos "Battle")
BRADDOCK—Jones, C. F.
BRIDGEPORT—Wilkinson Foundry & Mfg. Co. ("Paragon" Metallic)
CHESTER—Harper Mfg. Co. ("Harper" Metallic)
CONSHOHOCKEN—Collins, F. E. J. ("Collins" Metallic)
ERIE—Continental Rubber Works ("Tribune", "Continental", "Liberty")
Lake Shore Rubber Co. (Rubber)
**WATSON, H. F. CO. (Asbestos** Braided, Piston Rod, Core Wicks, etc.) (See adv. index, end of book)
FRANKLIN—Franklin Mfg. Co. ("Perfection" Journal Box, Piston Rod, etc.)
HAZLETON—**BOSTON BELTING CO.** (Hazleton Machinery & Supply Co., Rep.) (See adv. index, end of book)
JEANNETTE—**PENNSYLVANIA RUBBER** Co. ("Century" White Sheet & Wire Insertion, "Columbia" Spiral Piston Rod, Ring "Pennsylvania" Expansion Ring, Spiral Piston, "Reindeer," Red Sheet, also Rubber Back, Pure Sheet, Diaphragm, etc.) (See adv. index, end of book)
JERSEY SHORE—American Balance Valve Co. (Metallic)
MANHEIM—United States Asbestos Co. ("Usa Co," "Carbuline" Asbestos)
NORRISTOWN—American Asbestos Co. (Asbestos Metallic Sheet, Asbestos Rod, Ring, Wick, Rope & Braided)
NORTH WALES—Asbestos Fibre Spinning Co., Asbestos Rope, Wicks, Sheet, etc.)
PHILADELPHIA — Acme Packing & Rubber Co., 230 N 3d
Anchor Packing Co. ("Ankorite," "Sedgley," "Allegheny," "Capstan," "Baldwin," "Brooks"), Gtn & Allegheny avs, Phila., Pa.
Billington, Jas. H. & Co. (Maltese Cross Brand), 113 Chestnut
Blue Bell Packing Co. ("Blue Bell," Metallic), 1211 Filbert
**BOSTON BELTING CO. (Mulconroy Co., Rep.)**, 722 Arch. (See adv. index & branch offices, end of book)
Brown, D. P. & Co. (Brown's Oil Proof Ring & Sheet, etc.), 264 N 4th
Cancos Mfg. Co. ("Black Squadron" Metallic, "Rising Sun," "Globe," "White Squadron"), 146 N 2nd
Canfield Mfg. Co. (Ltd.) ("Empire" Braided Gum Core, "Canfield," Square Flax Spiral & Ring, "Ambest," "Rex" & "Regal" Metallic), Howard & Lehigh
Double Service Packing Co., 430 Walnut
Ehret Magnesia Mfg. Co., Land Title bldg
Elastic Metallic Packing Co. ("Collins" Metallic), 407 Cherry
Everybody's Packing Co. ("Wiebelin," Plastic-Elastic Metallic "Diogenes" Sheet), Bourse bldg
France Packing Co., Inc. ("France" Fibrous, Sheet or Metallic), Tacony
Gasket Supply Co. ("Right"), 1729 Ludlow
Houghton, E. F. & Co. ("Vim"), (Leather), 240 W Somerset
Latta, Jno. S. & Co., 1227 Arch
Montgomery Bros. ("M. B.," "Visa," "Diagonal," "Paragon," "Magnolia," "Victor," "Ajax," "Czar," "Standard," "American" & "Sterling." Gum Bore, Steam, Hydraulic & Ammonia), 48 N. Front
Mulconroy Co. (Inc.) ("Black Jack." "Indian," "Quaker," "Pilgrim." "Puritan," "Thorobred," "Victor," "Admiral" & "Monitor"), 722 Arch
Quaker City Rubber Co. (Chas. A. Daniel Prop.) ("Daniels" P. P. P. Rod. "Red Sheet", "Kalonic", High Pressure Sheet, Cloth Insertion, Wire Insertion. "Holetite", Spiral, "Crown", Spiral, "Ebonite," "Skihi," "Hercules," "Regal" & "Valvolite"), 629 Market
Restein, Clement Co. ("Belmont" & "Bell" Square Flax, Gum Core, etc.), 139 N 2d
Ruwell, Wm. F. (Cylinder), 719 Noble
Sayen, Osgood ("Torpedo" Asbestos. "Un-X-L-D" Plumbago Unvulcanized. "Johnson" Vulcanite Rubber. "Midnight" Oil-Proof," "Tucks," "Auto" & "Melville" Oxidized White Rubber). Arcade bldg. Warerooms: 131 Market
Schlichter Jute Cordage Co. (Jute), 20 N Front
Skipton, Valentine Co., 2321 N 30th
Smith, Jas. Packing Co., 3108 Germantown av., Phila., Pa.
Standard Supply & Equipment Co. ("Torpedo" Asbestos Sheet), 1710 Market
Underwood, H. B. & Co. ("St. John" Self-Adjusting Cylinder Packing), 1025 Hamilton
U. S. Metallic Packing Co. (Metallic), 427 N 13th
Walker, Thos. & Sons (Metallic), 4619 Tacony. Fkd.
Walsh Packing Co. (Metal Face, Steam & Water), 304 New
Watt's Jno. M. Sons ("Dirigo," "Nonpareil" & "Keystone"), 54 N 2d
Williamson & Cassedy, 526 Market
Winnie, F. W. & Son (Tarred & Untarred Jute), 237 Market
PITTSBURG—**BOSTON BELTING CO.** (J. & H. Phillips, Rep.), 136 Sixth. (See adv. index, end of book)
Chaplin-Fulton Mfg. Co. ("Roger")
Flocker, Jno. & Co. (Ltd.), (Lubricating Hemp)
Gerwig, H. & Sons, 1301 Penn av
Larkins Metallic Packing Co. ("Larkins," Metallic Self-Lubricating)
McClintock & Irvine Co.
**PITTSBURGH GAGE & SUPPLY** Co. ("Best-Ov-All," "Fort Pitt" Sheet, "Port Pitt" Spiral), 30th & Liberty av. (See adv. index, end of book)
Pittsburg Steam Packing Co. ("Reliance," "Practical" & "Iron City"), 210 2d
Universal Flexible Packing Co. ("Universal", Flexible for Piston Rods & Valve Stems, Locomotives, Throttle Stems, Hydraulic Pumps, etc.), 3109 Penn av
SCRANTON—**BOSTON BELTING CO.** (Scranton Supply & Machinery Co., Rep.), 131 Wyoming. (See adv. index, end of book)
Kingsbury Packing Co. ("Oxford")
VALLEY FORGE—Ehret Magnesia Mfg. Co.
WILKES-BARRE—Holmes Metallic Packing Co. (Metallic Piston Rod & Valve Stem)

## RHODE ISLAND.

BRISTOL—National India Rubber Co. ("N. I. R.," "Bristol," "Stanhope," Sheet, Piston & Pump)
WYOMING—Wyoming Yarn Co. ("Wypap" Woolen Yarn for Journal Boxes)

## SOUTH CAROLINA.

CHARLESTON—General Asbestos & Rubber Co. ("Metalloid." "Ideal," "Parabesto," "Delta," "Eclipse," "Dixie," "Carolina," "Navy," "Valbectine," "Semi-Bronze," "Morocco," "Magnolia," "Sumter," "Gilt Edge")

## TENNESSEE.

MEMPHIS—**BOSTON BELTING CO.** (Lee Bros. Rep.), 4 S Front. (See adv. index, end of book)

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**NASHVILLE—BOSTON BELTING CO.** (Keith, Simmons & Co., Rep.), 316 Union, (See adv. index, end of book)

## WISCONSIN.

**CUDAHY—Federal Rubber Co.** (Rubber, all Grades)
MILWAUKEE—Richardson-Phenix Co. ("Phenix" Metallic)
Western Rawhide & Belting Co. (Rawhide)
STEVENS POINT—Comee Metallic Packing Co. (Metallic)

## 8033– Packing (Metallic)

**Advance** Packing & Supply Co. (Asbesto-Metallic Sheet), 123 Franklin, Chicago, Ill
**Ambrose** Machine Co. ("Ambrose" Self-Adjusting Piston), Provost & Eagle, Brooklyn, N. Y.
American Asbestos Co. ("Motor-bestos" Sheets), Norristown, Pa.
American Balance Valve Co. (Piston), Jersey Shore, Pa.
**AMERICAN-GOETZE GASKET & PACKING** Co. ("Rex" & "Goetze's" for Saturated Steam, Superheated Steam, Cold & Hot Water & for Highest Steam & Water Pressures), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
American Huhn Metallic Packing Co., 410 E 32d, New York
**American** Metallic Packing Co. (For Steam), Lexington, Ky.
**American** Steam Packing Co. (Asbesto-Metallic), 51 High, Boston, Mass
**Anchor** Packing Co. ("Ankorite"), Gtn & Allegheny avs, Phila., Pa.
**Aurora** Metal Co. ("Lewis & Kunzer" Piston), Aurora, Ill.
Blue Bell Packing Co. ("Blue Bell"), 1211 Filbert, Phila., Pa.
**BOSTON BELTING CO. ("Forsyth"** Combination), 260 Devonshire, Boston, Mass. (See adv. index & branch offices end of book)
**Bulne** Metal Packing Co., 99 Nassau, New York
Calmon Asbestos & Rubber Works of America (Asbestos Sheet), 102 Reade, New York
**Cancos** Mfg. Co. ("Black Squadron"), 146 N 2nd, Phila., Pa.
**Canfield** Mfg. Co. (Ltd.) ("Ambest"), Howard & Lehigh, Phila., Pa.
Cassco Bar-Metallic Packing Co., 140 Dearborn, Chicago, Ill.
Chicago Bailye Co. ("Chief's Own" Bar Metallic), 260 S Clark, Chicago, Ill.
Clark Flexible Metallic Packing Co. (Flexible Metallic), 71 Kennebec, Portland, Me.
**Cleveland** Rubber Works, Cleveland, O.
**Cockburn** Co. (For Piston Rods), Jersey City, N. J.
Collins, F. E. J. ("Collins"), Conshohocken, Pa.
**Comee** Metallic Packing Co., Steven's Point, Wis.
**Common** Sense Metal Packing Mfg. Co., 223 E 23d, New York
Cook, C. Lee Mfg. Co. ("Cook's," Piston & Corliss Valve Stem, etc.), Louisville, Ky.
Crown Mfg. Co. ("Plasticpac"), Rockefeller bldg, Cleveland, O.
**Davidson, M. T.** ("Watson's" Piston Rod, etc.), 43 Kenp, Brooklyn, N. Y.
Dixie Packing Co. ("Dixie"), Atlanta, Ga.
Edgecumbe, J. C. & Co. ("Edgecumbe" Elastic), 100 William, New York
Everybody's Packing Co. ("Wiebelin" Plastic-Elastic), Bourse bldg, Phila., Pa.
**Federal** Metallic Packing Co. ("Pactite" & "Standard" Flexible Metallic Fibred Compound), 164 Canal, Boston, Mass.
**France** Packing Co. (Inc.) (Piston & Valve Rod, etc.), 6506 State rd, Tacony, Phila., Pa.
Garlock Packing Co. ("Pitt"), Palmyra, N. Y.
**General** Asbestos Rubber Co. (Semi-Bronze), Charleston, S. C.
Goodsell Pavking Co., 117 N Canal, Chicago, Ill.
Goodwin & Kintz Co., Winsted, Conn.
**Greenwood** Mfg. & Supply Co. ("Sun"), 12 Pearl, Boston, Mass.
Hammett, H. G. ("Trojan" for Piston Rods & Valve Stems), Troy, N. Y.
Harper Mfg. Co. ("Harper"), Chester, Pa.
Hartford Engine Works ("St. John" Self-Adjusting Cylinder), Hartford, Conn.
High-Speed Metallic Packing Co. ("High-Speed"), 40 Michigan, Chicago, Ill.
Holmes Metallic Packjing Co. (Piston Rod & Valve Stem), Wilkes-Barre, Pa.
Houchin-Aiken Co. ("Law"), 39 53d Brooklyn, N. Y.
Huhn Metallic Packing Co. ("Hulin"), 410 E 32d, New York
Ideal Metallic Packing Co. ("Ideal"), South Stillwater, Minn.
Imperial Iron Works ("Imperial"), Duluth, Ironton Engine Co., Ironton, O. Minn.
Jerome & Elliott, 1120 W Monroe, Chicago, Ill.
Katzenstein, L. & Co., 358 West, New York
Larkins Metallic Packing Co. ("Larkins," Self-Lubricating), Pittsburg, Pa.
Magnolia Metal Co. ("Magnolia"), 117 Bank, New York
Merrill, Wm. B. & Co. ("Tripp" for Piston Rods, etc.), 72 India, Boston, Mass.
Merwarth Metallic Gasket Co., East Cambridge, Mass.
Metallic Packing & Mfg. Co. ("20th Century," "Martell")
Monarch Steam Blower Co. ("Sterling"), Troy, N. Y.
Morgan & Wright (Inc.), ("White Seal" Asbestos Metallic Cloth Insertion), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National Metallic Packing Co., Oberlin, O.
**NEW ERA MFG. CO. ("New Era"** Self-Lubricating Metallic Engine Packing), Kalamazoo, Mich. (See adv. index, end of book)
Northern Chemical Co. ("Norpacks," Semi-Metallic Plastic), Cleveland, O.
Northern Metallic Packing Co., St. Paul, Minn.
Paxton-Mitchell Co. ("Mitchell"), Omaha, Neb.
Power Specialty Co. ("Duval"), 111 B'way, New York
Premier Engineering & Mfg. Co. ("Premduro" Flexible), 25 Broad, New York
Reeves Machine Co. ("The Hartham"), Trenton N. J.
Revere Rubber Co. ("Giant" & "Samson." Spiral Piston, etc.), Boston, Mass.
Rhodes Improved Metallic Packing Co. ("Rhodes"), 123 Liberty, New York
Richardson-Prenix Co. ("Prenix"), Milwaukee, Wis.
**RYERSON, JOS. T. & SON ("Regal"),** 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Steel Mill Packing Co. ("Safety", Plastic Metallic), Detroit, Mich
**STRONG MACHINERY & SUPPLY CO.** "Strong's Rivalate" Metallic Loop & Semi-Metallic), 48 Franklin, New York (See adv. index, end of book)
**SWAIN LUBRICATOR CO., Lake &** S Water, Chicago, Ill. (See adv. index, end
Tippet Mfg. Co., Columbus, O. of book)
Trainer, C. W. Mfg. Co. ("Asbestos Metallic"), 89 Pearl, Boston, Mass.
Udstad, S. (Elastic), Aurora, Ill.
**Unique** Engineering Co. (Metallic Ring), 100 Hinsdale, Brooklyn, N. Y.
United States Metallic Packing Co., 427 N 13th, Phila, Pa.
Universal Flexible Packing Co. ("Universal", Flexible for Piston Rods & Valve Stems, Throttle Stems, Hydraulic Pumps, etc.), 3109 Penn av, Pittsburg, Pa.
Walker, Thos. & Sons, 4619 Tacony Fkd., Phila, Pa.
Walsh Packing Co., 111 S 7th, Phila, Pa.
Ward & Packer Supply Co. ("W-P"), Fisher bldg, Chicago Ill.
**WATSON, H. F. CO. (Asbestos), Erie,** Pa. (See adv. index & branch offices, end of book)
Wilkinson Foundry & Mfg. Co. ("Paragon" Piston Rod), Bridgeport, Pa.
Wing, J. T. & Co., Detroit, Mich.

## Packing (Piston Rod)

(See Packing, Metallic; also Packing Manufacturers)

## 8034– Packing (Rawhide)

Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.
Mabb's Hydraulic Packing Co. ("Mabb's") Board of Trade bldg, Chicago, Ill
National Rawhide & Belting Co. (Self-Lubricating), Niles, Mich.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's" Square Platted Rawhide), 48 Franklin, New York. (See adv. index, end of book)
Western Rawhide & Belting Co. (White Rope) Milwaukee, Wis.

## 8035–Packing (Red Sheet)

**BOSTON BELTING CO., 256 Devon-**shire, Boston, Mass. (See adv. index & branch offices, end of book)
**HOME RUBBER CO. ("Sterling"),** Trenton, N. J. (See adv. index & branch offices, end of book)

## 8036– Packing (Ring)

American Asbestos Co. ("Motor-bestos" & Asbestos Metallic), Norristown, Pa.
American Balance Slide Valve Co., Jersey Shore, Pa.
**AMERICAN-GOETZE GASKET &** Packing Co. ("Ideal"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
American Steam Packing Co., 51 High, Boston, Mass.
**Anchor** Packing Co. ("Senator"), Gtn. & Allegheny avs, Phila., Pa.
Anderson, G. P., 163 Oliver, Boston, Mass.
Barton Packing & Rubber Co. ("Comet"), San Francisco, Cal.
Boonton Rubber Co. (Hard Rubber & Asbestos), Boonton, N. J.
**BOSTON BELTING CO., 256 Devon-**shire, Boston, Mass. (See adv. index & branch offices, end of book)
Brandon, Jas. ("Brandon," Balanced Cylinder), 390 11th av, New York
Brown, D. P. & Co. (Brown's Oil Proof), 262 N 4th, Phila, Pa.
Cancos Mfg. Co. ("Black Squadron"), 146 N 2d, Phila, Pa.
Cleveland Rubber Works, Cleveland, O.
Columbia Ring Packing Co., 6 Howard, New York
Combination Rubber & Belting Co. ("Indestructene," "Bloomfield" Sectional & Plain), Bloomfield, N. J.
Continental Rubber Works (Rubber), Erie, Pa.
Crandall Packing Co., Palmyra, N. Y.
Federal Metallic Packing Co. (Flexible Metallic), 164 Cana, Boston, Mass.
Garlock Packing Co., Palmyra, N. Y.
Gould Packing Co., Cambridgeport, Mass.
Greenwood Mfg. & Supply So. ("Greenwood"), 12 Pearl, Boston, Mass.
Federal Metallic Packing Co. (Flexible Metallic), 137 High, Boston, Mass.
Excelsior Ring Packing Co., 430 Kent av, Brooklyn, N. Y.
Ideal Metallic Packing Co. ("Ideal," Metallic), S Stillwater, Minn.
Jerome & Elliott, 1120 W Monroe, Chicago, Ill.
Johnson, Henry Co., Jersey City, N. J.
Kilroy Piston Ring Co. ("Kilroy" Piston), 74 Cortlandt, New York
Knowlton, Geo. W. Rubber Co. (And Spiral, Square & Round), 60 Pearl, Boston, Mass.
Knowlton Packing Co. ("Lubron"), Newtonville, Mass.
Magnolia Metal Co., 260 W B'way, New York
Morgan & Wright (Inc.) ("Morganite," "Nagrom," "Cadillac," "M-W" High Pressure & Hydraulic, etc.), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
New Jersey Asbestos Co. ("Gladiator" Moulded, Camden, N. J.
New York Belting & Packing Co. (Ltd.), (Rubber), 91 Chambers, New York
Peerless Metal Mfg. Co., Pittsburg, Pa.
**PENNSYLVANIA RUBBER CO.** ("Columbia" Ring, "Pennsylvania Expansion Ring", Jeanette, Pa. (See adv. index & branch offices, end of book)
Pilley Packing & Flue Brush Co., 606 S 3d, St. Louis, Mo.
Quaker City Rubber Co. (Chas. A. Daniel, Prop.) ("Ebonite", "Donkey", "Crown", Sheet), 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Sayen, Osgood, Arcade bldg, Phila., Pa.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's Veri Best" Extra High Pressure, Piston & Valve Rod), 48 Franklin, New York. (See adv. index, end of book)
Von Kokeritz, R. G. & Co. ("Durable" Superheated Steam), 114 Liberty, New York
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Wing, J. T. & Co., Detroit, Mich.

When writing to firms listed in this book please, mention HENDRICKS' COMMERCIAL RECISTER

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## 8037— Packing (Sheet)

**AMERICAN-GOETZE GASKET &** Packing Co. ("Goetzerit"), 46 Paterson, New Brunswick, N. J. (See adv. index, end of book)
American Asbestos Co. ("Motor-bestos" & Asbestos Metallic), Norristown, Pa.
Anchor Packing Co. ("Tauril," "Ankorite," "Asbestine"), Gtn. & Allegheny avs, Phila, Pa.
Asbestos Fibre Spinning Co. (Asbestos Cloth & Brass Wire), North Wales, Pa.
**BOSTON BELTING CO., 256 Devon-**shire, Boston, Mass. (See adv. index & branch offices, end of book)
Cincinnati Gasket & Packing Co. ("Red Velvet"), Cincinnati, O.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Works, Cleveland, O.


# N. B. O.

*The Original Black Sheet*

**PACKING**



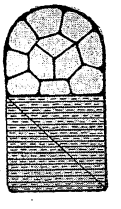

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High Pressure



Low Pressure is strongly advised for all Steam Pressures under 100 lbs. High Pressure for all Steam Pressures over 100 lbs.

**O. I. M.**
Low Pressure



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Packings of All Kinds for All Purposes.

**BELTING — HOSE — GASKETS**

Valves and Moulded Goods of All Kinds.

# Home Rubber Co.

**TRENTON, N. J.**

NEW YORK CHICAGO
80-82 Reade St. 431 S. Dearborn St.
LONDON
107 Clifton St., Finsbury


Combination Rubber & Belting Co. ("Red Diamond," "Blue Diamond" & Wire Insertion, Diaphragm, etc.), Bloomfield, N. J.
Crandall Packing Co., Palmyra, N. Y.
**HOME RUBBER CO. ("Original** Black," "N. B. O."), Trenton, N. J. (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co. ("Taranite" Rubber), 18 Vesey, New York
National India Rubber Co. ("N. I. R." Red), Bristol, R. I.
New Jersey Asbestos Co. ("Gladiator," Asbesto Metallic), Camden, N. J.
**NEW YORK RUBBER CO., Deade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO. ("Cen-**tury" White, Pure Sheet Rubber, "Reindeer" Red Sheet, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)
Sayen, Osgood ("Wissahocken" Red Sheet), Arcade bldg, Phila., Pa.
Sayen Rubber Co. (Asbestos, Rubber With Cloth Insertion), Hamilton Sq., N. J.
**SMOOTH-ON MFG. CO. ("Smooth-On."** Asbestos), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
**STRONG MACHINERY & SUPPLY CO.** ("Strong's I. O. P. Dichtungsgummi"), 48 Franklin, New York. (See adv. index, end of book)
Von Kokeritz, R. G. & Co. ("Durable" Superheated Steam), 114 Liberty, New York
Whitehead Bros. Rubber Co., Trenton, N. J.

## 8037a—Packing (Sheet "Smooth-On" Asbestos)

**SMOOTH-ON MFG. CO., 572 Communipaw** av, Jersey City, N. J. (See adv. index & branch offices, end of book)

## 8038— Packing Sticks

**STRONG MACHINERY & SUPPLY CO.** ("Strong's Excelsior"), 48 Franklin, New York (See adv. index, end of book)

## 8038a—Packing (Vulcanized Fibre)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

## 8039—Packing (Weather Strip)

Bosley, D. W. Co. (For Refrigerators, Ice Boxes, etc.), 1123 Fulton, Chicago, Ill.
Cincinnati Rubber Mfg. Co., Cincinnati, O.

## 8040—Packing (Wire Rope Pulley)

**BOSTON BELTING CO., 260 Devon-**shire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)

## 8041— Packing (Yarn)

Wyoming Yarn Co. ("Wypak" Woolen for Journal Boxes, etc.), Wyoming, R. I.

## Padlocks

(See Locks, Padlock)

## 8042— Padlocks (Pole)

Fletcher Mfg. Co., Dayton, Ohio

## 8043— Pads (Horse Collar)

American Pad & Textile Co., Greenfield, O.
Crescent Mfg. Co., Loudonville, O.
Curtis-Dexter Co. ("Boss" Zinc Lined, "Curtis" Leather), Madison, Wis.
Louisville Girth & Blanket Mills (Woven Hair) Louisville, Ky.
Norfolk Collar Pad Co., Norfolk, Va.
Perkins-Campbell Co., Cincinnati, O.

## 8044— Pads (Stamp)

Fountain Ink Pad Co., 40 Dearborn, Chicago, Ill.
Kee-Lox Mfg. Co., Rochester, N. Y.
Volger, B. G. Mfg. Co. ("Excelsior," "New Departure"), Passaic, N. J.
Klausmann, J., 70 William, Newark, N. J.
Laughton Pad Co., Westfield, Mass.
Superb Stamp Pad Co., Auburn, N. Y.

## 8045— Pads (Sweat)

American Pad & Textile Co., Greenfield, O.
Burdell Sweat Pad Co., Columbus, O.
Burlington Blanket Co., Burlington, Wis.
Crescent Mfg. Co., Loudonville, O.
Couch Bros. Mfg. Co., East Point, Ga.
Curtis-Dexter Co., Madison, Wis.
Harsh-Miller Mfg. Co., Wabash, Ind.
Powers Mfg. Co., Waterloo, Ia.
Norfolk Collar Pad Co., Norfolk, Va.
St. Louis Sweat Pad Works, St. Louis, Mo.
Shott, J. B. Saddlery & Mfg. Co., Quincy, Ill.
Southern Sweat Pad Co., Evansville, Ind.

## 8046— Pail Ears

Berger Bros. Co. (Pail Ears, Pans, Kettles, etc.), 237 Arch, Phila, Pa.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Forsyth Mfg. Co., 308 Terrace, Buffalo, N. Y.
Geuder, Paeschke & Frey Co. (Also Tub, etc.), Milwaukee, Wis.
Holland Mfg. Co. (Pail & Tub), Baltimore, Md.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Townsend, G. G., Winchendon, Mass.
Troy Nickel Works, Albany, N. Y.
Troy Stamping Works, Troy, N. Y.
**WILSON, F. CORTEZ & CO. (Tin), 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 8047— Pails (Aluminum)

Aluminum Goods Mfg. Co., Manitowac, Wis.

## 8048—Pails (Chemical Fire)

Hamilton, E. A. & Co. ("Waggoner" Sanitary), Grand Rapids, Mich.

## 8049— Pails (Commode)

Northwestern Consolidated Iron & Steel Mfg. Co. ("Pierce's" Sanitary), Burlington, Ia.

## 8050— Pails (Copper)

Atlantic Stamping Co. (Polished, Nickel-Plated, etc.), Rochester, N. Y.

## 8051— Pails (Dairy)

Atlantic Stamping Co. ("Atlantic" Tin), Rochester, N. Y.
Lisk Mfg. Co., Ltd. ("Lisk" Anti Rust), Canandaigua, N. Y.
Pritchard Stamping Co., Rochester, N. Y.
Tyler Specialties Co. ("Tyler," "Clean-O"), Rome, N. Y.

## 8052— Pails (Fibre)

Cordley & Hayes (Wholesale Jobbers), 7 Leonard, New York
United Indurated Fibre Co. of N. J. ("Fibrotta"), Lockport, N. Y.

## 8053— Pails (Foundry)

American Wooden Ware Mfg. Co. (White Oak), Toledo, O.

## 8054—Pails (Galvanized Iron)

**AMERICAN CAN CO., 447 W 14th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Atlantic Stamping Co., Rochester, N. Y.
Buhl Stamping Co., Detroit, Mich.
Central Stamping Co., 174 Fulton, New York
Coonley Mfg. Co., Clyde, Ill.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Dressel Railway Lamp Works, 3860 Park av, New York
Dunlap, John Co., Pittsburg, Pa.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Lisk Mfg. Co., Ltd. ("Lisk" Aluminum Galvanized), Canadaigua, N. Y.
National Enameling & Stamping Co., 81 Fulton, New York
New England Enameling Co. (Water, Fire, etc.), Middletown, Conn.
Pritchard Stamping Co., Rochester, N. Y.
Pritchard-Strong Co., Rochester, N. Y.
Republic Metal Ware Co., Buffalo, N. Y.
Rochester Can Co. ("Lion Brand"), Rochester, N. Y.
Victor Stamping Co. (Stock, Tap, Water, Fire, etc.), Twightwee, O.
Wall, P., Mfg. Supply Co., N S, Pittsburg, Pa.
Wheeling Corrugating Co., Wheeling, W. Va.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book

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## 8055— Pails (Garbage)

**AMERICAN CAN CO., 447 W 14th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Atlantic Stamping Co., Rochester, N. Y.
Dover Stamping & Mfg. Co. ("Galvanized"), Cambridge, Mass.
Holzhauer, F. E. & Co., Detroit, Mich.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
New England Enameling Co. (Galvanized), Middletown, Conn.
**WILSON, F. CORTEZ, & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)
Witt Cornice Co. ("Witt's"), Cincinnati, O.

## 8056—Pails (Milk Strainer, Etc.)

Atlantic Stamping Co. ("Atlantic" All Tin), Rochester, N. Y.
Lisk Mfg. Co., Ltd. ("Lisk Ant" Rust), Canandaigua, N. Y.
Tyler Specialties Co. ("Tyler-Clean-O"), Rome, N. Y.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)**

## 8057— Pails (Paper)

O. K. Paper Pail Co., Middletown, O.

## 8058— Pails (Steel, Shop)

Clark, W. J. Co. (Sheet Steel), Salem, O.
Cleveland Wire Spring Co. (Sheet Steel), Cleveland, O.
Durlach, I. (For Gravel, Sand, Shop, etc.), 54 Vesey, New York
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Ohio Mfg. Co., Painesville, Ohio.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 8059— Pails (Tar)

Durlach, I. (For Roofers, Contractors, etc.), 54 Vesey, New York

## Pails (Tin)

(See Tinware Manufacturers)

## 8060— Pails (Tin, Lard)

**AMERICAN CAN CO., 447 W 14th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Bertels, W. B. & Son Co., Wilkes-Barre, Pa.
**Brecht, B. S. Co.** (Tin), N 12th & Cass av, St. Louis, Mo.
Columbia Can Co., St. Louis, Mo.
Trethaway Bros., Parsons, Pa.

## Pails (Waste)

(See Cans, Waste)

## 8061—Pails & Buckets (Wood)

American Woodenware Mfg. Co. (White Oak Stable, Derrick & Foundry), Toledo, O.
Beaver Mills, Keene, N. H.
Bousfield Woodenware Co., Minneapolis, Minn.
Bousfield & Co. (Pails, Tubs, etc.), Bay City, Mich.
Buckeye Churn Co. ("Eureka," "Climax," "Buckeye," "Oak Horse"), Sidney, O.
California Barrel Co., San Francisco, Cal.
Carr, Alonzo A., Ashby, Mass.
English Mfg. Co., Antigo, Wis.
Erie Pail Factory, Erie Pa.
Farrar Chas. D., Troy, N. Y.
Fayetteville Wooden Ware Co., Fayetteville, N. C.
Flint, Levi E., Ashby, Mass.
Great Northern Pail Co., Green Bay, Wis.
Hightower Box & Tank Co., Atlanta, Ga.
Keene Mfg. Co., Keene, N. H.
Lovering, John W., Sandown, N. H.
March, James, Westport, N. H.
Menasha Wooden Ware Co., Menasha, Wis.
Mengel Box Co., Louisville, Ky.
Ohio Pail Co., Middlefield, O.
Paepcke-Leicht Lumber Co., Chicago, Ill.
Peirce, W. E. & Co., Milford, N. H.
Pierpont Mfg. Co. (Oyster Pails, Red Cedar & Cypress Water Pails) Savannah Ga.
Prewitt-Spurr Mfg. Co. (Red Cedar, Ash, etc.), Nashville, Tenn.
Ramdell, Jas. M., East Swanzey, N. H.
Richmond Cedar Works, Richmond, Va.
Robinson, W. S. Co., New Haven, Conn.
Two Rivers Woodenware Co., Two Rivers, Wis.
Whitcomb Mfg. Co., West Swanzey, N. H.

## 8061a— Paint (Anti Stick)

Anti-Stick Co. Westerville O.

## 8062— Paint Burners

American Stove Co. ("Reliable," "Quick Meal" Gasoline), 414 N 6th, St. Louis, Mo.
Best Light Co., Canton, O.
**BERNZ, OTTO, 21 Ashland av.,** Newark N. J. (See adv. index end of book)
**CHICAGO PNEUMATIC TOOL CO.** ("Tynan" Operated by Compressed Air), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Clayton & Lambert Mfg. Co., Detroit, Mich.
Sun Vapor Street Light Co., Canton, O.
Turner Brass Works (Gasoline), Sycamore, Ill.

## 8063— Paint for Oil Cloth

**WILBUR, J. CO., Office: Providence, R. I. Factory, Phila., Pa.** (See adv. index, end of book)

## 8063a—Paint Grinders (Dry Material)

**WILBUR, J. CO., Office: Providence, R. I. Factory, Phila., Pa.** (See adv. index, end of book)


# J. Wilbur Company,

## DRY MINERAL PAINT GRINDERS

Also job grinding in carload lots. Specialties: Talckene, Black Filler, American Ochre and slates (red and gray), powdered dry.
Siding on P. R. R. and P. & R. railroads.

***Factory, PHILADELPHIA, PA.***
***Office, PROVIDENCE, R. I.***


## 8064— Paint Mfrs.

(For Special Kinds of Paints see Sub-classifications following this trade)

### ALABAMA.

BIRMINGHAM—Birmingham Paint & Glass Co.

### CALIFORNIA.

LOS ANGELES—Bowers, U. R. & Sons, 942 S Main
Brininstool Co., 2003 Palmetto
Whittier-Coburn Co., 165 N Los Angeles
OAKLAND—Buswell Paint Co.
Worden-Meeker Varnish Co.
SAN FRANCISCO—Bass-Hueter Paint Co., 816 Mission
Nason, R. N. & Co., 151 Potrero av
Paraffine Paint Co., Merchants' Exchange bldg.
Yates & Co., 320 Market

### COLORADO.

DENVER—James, B. L. Mercantile & Mfg. Co. (The) Arapahoe
McMutry Mfg. Co.
Reitze Wall Paper & Paint Co., 1647 Welton
Western Elaterite Roofing Co., Equitable bldg

### CONNECTICUT.

BRIDGEPORT—American Lacquer Co.
Bridgeport Bronze Marine Paint Co.
Crockett, D. B. Co.
NEW MILFORD—Bridgeport Wood Finishing Co.
NORWICH—Hammond-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide)
WATERBURY—Wright, E. E. (Roof), 59 Centre

### DELAWARE.

WILMINGTON—Bryan, Jas. M.
Cartmell, Thos. B., Paint & Glass Co.

### GEORGIA.

ATLANTA—Cooledge, F. J. & Sons
Tripod Paint Co., 37 N Pryor
AUGUSTA—O'Connor & Schweers Paint Co.

### ILLINOIS.

AURORA—Akron Mining, Milling & Mfg. Co.
CHICAGO—Adams & Elting Co., 722 W Wash'n boul
Allen Paint & Putty Works, 334 N Ashland
Alston-Lucas Paint Co., 1029 Currier av
Antakwa Co., 138 Washington
Armstrong Paint & Varnish Works, 2522 S Paulina
Bereda Mfg. Co., 834 W McKenzie.
Bradley & Vrooman Co., 2629 Dearborn
Chicago White Lead & Oil Co., 821 Fulton
Chicago Wood Finishing Co., 1216 Elston av
Depew Carbon Paint Co., 2734 N Lincoln
Diamond Red Paint Co., N Lincoln & Diversy boul
Detroit White Lead Works, 57 W Kinzie
Enterprise Paint Mfg. Co., 848 W Van Buren
Ernecke & Salmstein Co., 1509 N Halsted
Good Paint Co., 1709 W Austin av
Hanna & Andrus Mfg. Co., Weed & Hawthorne
Heath & Milligan Mfg. Co., 170 Randolph
Hooker, H. M. Co., 651 W Washington
Illinois Paint Mfg. Co., 1013 S Homan av
Indiana Indestructible Paint Co., 1642 N Halsted
Martin-Senour Mfg. Co., 2514 Quarry
Nubian Paint & Varnish Co., N 51st & Bloomingdale av
Ohmlac Mfg. Co., 98 Jackson blvd
Otley Mfg. Co. ("Eureka"), 1742 N Winchester av
Patterson-Sargent Co., 2026 Lumber ("B. P. S.")
Rice, Jas. H. Co., Illinois & St. Clair
Sall Mountain Asbestos Mfg. Co., 234 La Salle
Schrader, Whittick & Co., 400 N Lincoln
Thurston, F. W. & Co., 1832 S Clark
Vilas Bros., 227 5th av
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton
Watson, Geo. E. Co., 108 Lake
Wheeler-Clough Co., 246 E Illinois
CHICAGO HEIGHTS—Andrus, Wm. H. Co. (Dry Colors)
Chicago Color & Chemical Co.
Paraffine Paint Co.
EAST ST. LOUIS—Mepham, Geo. S. & Co.
Phelan-Faust Paint Mfg. Co.
FREEPORT—Heath & Milligan Mfg. Co.
PEORIA—Globe Mfg. Co.

### INDIANA.

ALEXANDRIA—American Insulating Material Mfg. Co. (Sawyers' Popular Brand)
INDIANAPOLIS—Advance Paint Co.
Ajax Paint Co. ("Woodpecker")
Burdsal, A. Co., 102 S Meridian
Indianapolis Paint & Color Co., 240 Mass. av
Northwestern Mfg. Co.
Sargeant Paint & Color Co., Mass. av c New
VALPARAISO—Parker, Chas. H. Co. Jersey

### IOWA.

DES MOINES—Elaterite Paint & Mfg. Co. ("Des Moines Elaterite")
FORT DODGE—Iowa Paint Mfg. Co.
PELLA—Van Nimdegen, A. P. & Bro.

### KANSAS.

WICHITA—Hockaday Paint Co.

### KENTUCKY.

ASHLAND—Ashland Paint Co.
COVINGTON—Boehmer, Albert L.
LEXINGTON—Skyo Mfg. Co.
LOUISVILLE—Bridges, Smith & Co.
Kurfees Paint Co.
Louisville Paint Mfg. Co.
Long, C. R., Jr. Co.
Louisville Lead & Color Co.

### LOUISIANA.

NEW ORLEANS—American Paint Works, 2215 S Water
Bernhardt, David Paint Co.

### MAINE.

PORTLAND—Burgess, Fobes & Co.

### MARYLAND.

BALTIMORE—Baltimore Copper Paint Co., 508 E Hughes
Chesapeake Oil Co.
Davis, H. B. Co., 701 Keyser bldg

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Hanline Bros., 23 S Howard
Hirshberg, Hollender & Co., 25 W Pratt
Kaufman, Edw. L. & Co., c Lafayette & Liberty
Macneal, James B. & Co. (Dry Paints Only)
Miller & Graham, Water & Frederick
Popplein, G. & N., Jr., 220 North
Rubber Paint Co.
Seim, Henry & Co., Howard & Fayette
Thomas, Wm. L., 754 W Balto.
SPARROW'S POINT—Maryland Steel Co.

## MASSACHUSETTS.

BOSTON—American Paint Mfg. Co., Mattapan
Briggs, John & Co., 47 Purchase
**CABOT, SAMUEL, 141 Milk. (See adv. index, end of book)**
Chadwick-Boston Lead Co., 162 Congress
Dexter Bros.
Gilman, C. H., 103 Merrimac
Hoffman, J. W. Co., 6 Medford
Prince, James H. Paint Co., 5 Lancaster
Stickney, J. W. & Co., 31 Milk
Tremont Paint & Varnish Co.
Wadsworth, Howland & Co. (Inc.), 84 Washington
Wheeler, Asahel Co., 52 High
GLOUCESTER—Henderson & Johnson
Tarr, Jas. H. Co. (Copper & Iron Marine), Hocky Neck
Tarr & Wonson (Marine), Rocky Neck
NEW BEDFORD—Brightman Bros., 146 Frost
Kirby, Geo. Jr., Paint Co., Wall nr Acushnet
SALEM—Philbrick, L. B.
SPRINGFIELD—Hampden Paint & Chemical
WATERTOWN—Waterproof Paint Co. Co.
WELLESLEY—Woods, Henry Sons Co.

## MICHIGAN.

DETROIT—Acme White Lead & Color Works
Boydell White Lead & Color Works
Detroit Graphite Co.
Detroit Refining Co.
Detroit White Lead Works
Ditzler Color Co.
Frazer Paint Co.
Michigan Paint Co.
Peninsular Paint & Varnish Co.
Rinshed-Gagnier Paint Co.
**TRUSSED CONCRETE STEEL CO.** (Kahn System). (See adv. index, end of book)
FLINT—Flint Varnish Works
Michigan Paint Co. (Graphite)
KALAMAZOO—Lakey, A. L. Co. (Mixed)
SAGINAW—Asphalt Roofing Co.
U. S. Graphite Co.

## MINNESOTA.

MINNEAPOLIS—Atlantic Paint Mfg. Co.
Maire Paint Co. (All Minerals)
Minn. Linseed Oil Paint Co., 1101 S 3d
ST. PAUL—Blood, T. L. & Co., 413 Wacouta
Northern Paint Co., 318 E 7th
St. Paul White Lead & Oil Co. ("Lion" Brand)

## MISSOURI.

KANSAS CITY—Continental Varnish & Color Co.
ST. LOUIS—Becker-Moore Paint Co., 1015 Campbell
Paint & Glass Co. Lucas av
**DIXON, JOS. CRUCIBLE CO. (of Jersey City, N. J.), Victoria bldg. (See adv. index, end of book)**
Eberson Paint Co., 2000 Pine
Great Western Paint & Color Co., 814 Manchester av
Hammar Bros. White Lead Co.
Kent & Purdy Paint Co., 701 N 2d
Lead Products Co.
Mechanics Paint Co.
Missouri Black Enamel & Paint Co.
Mound City Paint & Color Co.
Platt & Thornburgh Paint Co., 620 Franklin av
St. Louis Surfacer & Paint Co. ("Metalsteel") 26 S Commercial
Vane-Calvert Paint Co., 823 Locust

## NEBRASKA.

LINCOLN—Lincoln Paint & Color Co.
Nebraska Paint & Lead Co.

## NEW JERSEY.

BOUNDBROOK—Franklin Co.
BRIDGETON—Shaw, John P. & Co.
CAMDEN—Butterworth, C. H. Co. ("American")
Fox, Harry
GIBBSBORO—Lucas, John & Co.
HARRISON—Cromwell-Walker Co.
HOBOKEN—Marx, Jno.
Pfugh, Albert & Co.
JERSEY CITY—Amalgamated Paint Co.
**DIXON, JOS. CRUCIBLE CO. (Graphite) (See adv. index, end of book)**
Louderbough, Harry
New Jersey Paint Works (Louderbough, Hy. Prop.), (Oils, Paints & Antifouling Paints & Copper Paints & Marine Paints), Wayne & Fremont
Stowell Mfg. Co., 454 West Side av
Woolsey, C. A. Paint & Color Co., 500 Grand
MILLVILLE—Millville Lead & Paint Co.
NEWARK—Beckton Chemical Co.
Cawley, Clark & Co.
Courter, Albert C. & Co.
Devoe, F. W. & C. T. Raynolds Co.
Eureka Chemical Co.
Harrold Mfg. Co.
Herrmann, Morris & Co.
Ivoroid Mixed Paint Co.
Patton Paint Co.
Sherwin-Williams Co.
NEW BRUNSWICK—Watson, J. D. & Co.
PATERSON—Norwood & Berdan
STEWARTSVILLE—North Jersey Paint Co.
WALLINGTON—Anderson Chemical Co.

## NEW YORK.

ADAMS—Rice, A. L.
AUBURN—Messenger, F. H. Co.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Buffalo Oil, Point & Varnish Co., 1317 Elk
Century Mfg. Co., 272 W Genessee
Mets, P. A. Paint Co., 769 Clinton
CLINTON—Clinton Metallic Paint Co.
COLLEGE POINT—(See New York City, Borough of Queens)
ELLENVILLE—Ulster Paint Works
FISHKILL ON THE HUDSON—Hammond, Benjamin
LONG ISLAND CITY—(See New York City, Borough of Queens)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Averill Paint Co., 240 Plymouth
Brown, Chas. H. Paint Co., 190 Montague
Colonial Works, 233 Norman av
Devoe, F. W. & C. T. Raynolds Co., 565 Smith
Holzapfel's American Composition Co., 175 Ingersoll, O. W., 243 Plymouth Beard
King Paint Mfg. Co., 23 Durham pl
King, Wm. H. & Co., 122 Greene
Kuhls, H. B. Fred, 719 3d av.
Leavitt, Louis, 454 Driggs av.
Longman & Martinez, 231 N 9th
McCafferty, Jas. A., N 9th
McNaughton, Wm. D., 185 Oakland
McQuade, John & Co. (Stevens' Brick Reds, etc.), 416 Marcy av
Masury, John W. & Son, 50 Jay
Montauk Paint Mfg. Co., 170 2nd av
Moore, Benjamin & Co., 231 Front
Pierce, F. O. Co., 30 Tiffany pl
Reliable Moisture Resisting Co., 306 N Rosenson, David, 405 Watkins Henry
Smith, J. Lee & Co. 700 Hicks
Sterling Paint Works, 165 Furman
Stewart, Wm. H. Mfg. Co., 65 Delevan
Weatherine Paint Works, 139 Steuben

### Boroughs of Manhattan & Bronx.

NEW YORK—Adams & Elting Co., 247 Pearl
Apex Color Works, 510 Pearl
Billings, King & Co., 438 Pearl
Burns, C. L., 156 5th av
Childs, Chas. M. & Co., 99 John
Chilton Paint Co., 100 William
Coulston, J. W. & Co., 136 Liberty
Devoe, F. W. & C. T. Raynolds Co., 101 Fulton
Dry Dock Copper Paint Co., 78 Broad
Dunham, Thomas C., 68 Murray
Elpco Paint Mfg. Co., 656 W 34th
Feigel, M. & Bro., 80 W Houston
Fox, M. Ewing & Co. ("Permanite"), 240 E 136th
Gardiner, Geo. N. & Son, 15 William
Gould Gibraltar Paint Co., 32 Union sq.
Grote, George W. & Co., 432 E 102d
Holzapfel's Am. Composition Co., 18 B'way
Horn, A. C. Co.
Ilsley, Doubleday & Co., 229 Front
Leggett & Bro., 301 Pearl
Longman & Martinez, 207 Pearl
Manhattan Color Works ("Tem-Po-Va"), 197 Amsterdam av
Miller, Clifford L. & Co. ("Minwax"), 110 E 23d
Moser, Charles Co., 149 Washington
Nansen Composition & Paint Co., 26
National Lead Co., 111 B'way Water
New York Roof Paint Co., 100 William
Pierce, F. O., Co., 12 W. B'way
Prince Mfg. Co. (Metallic Dry Paints & Colors), 11 Cliff
Rahtjen's Am. Composition Co., 1 B'way
Smith, J. Lee & Co., 19 Jacob
Sonneborn, L. Sons (Inc.), 262 Pearl
Standard Paint Co., 100 William
Teredo-Proof Paint Co. ("Kennon's" Teredo), Produce Exchange
Tiemann, D. F. & Co., 44 Duane
Toch Bros. (Est. 1848), 320 5th av
Von Kokeritz, R. G. & Co., 114 Liberty
Whitehead, J. W., Jr., 1 Madison av
Wix, Charles & Co., 133 Reade
Zibell Damp Resisting Paint Co., 273 Water

### Borough of Richmond.

NEW BRIGHTON—Muralo Company

### Borough of Queens.

LONG ISLAND CITY—Willey, Charles A. Co., Nott av

**(End of New York City)**

NIAGARA FALLS — International Acheson Graphite Co. (Graphite)
OGDENSBURG—Rossie Iron Ore Paint Co. (Metallic)
ROCHESTER—Clark Paint, Oil & Glass Co., 131 State
Johnson Compound & Supply Co. ("Sumac" Elastic)
SCHENECTADY—Engleman & Bellinger, 212 S Centre
SYRACUSE—Semet-Solvay Co. ("Solvay," Crysolite")
TROY—Connors, Wm. Paint Mfg. Co., 609
WAVERLY—Thomas, A. H. Paint Co. River

## NORTH CAROLINA.

HIGH POINT—Alexander, H.
WILMINGTON—Spirittine Chemical Co.
Spirittine Chemical Co.

## OHIO.

CANTON—Arlington Mfg. Co.
Canton Paint & Varnish Co.
Cawn Mining & Mfg. Co.
Goheen Mfg. Co. (Carbonizing Coating)
CINCINNATI—Allen Anti-Rust Mfg. Co., Glenn bldg
Boice, Louis H. & Co., 2435 Gilbert av
Bradley Mfg. Co., 1919 Gest
Eagle White Lead Co., 1030 B'way
Kolbe, John Co., 229 W 5th
Long, Edwin & Co., 845 Clinton
Mamolith Carbon Paint Co., 2d & Main
Meyer, E. H. & Co., 906 Walnut
Moser, Chas. Co., 215 E 9th
Peale Paint & Glass Co., 904 Central av
Washburn, Ira D. Co., 1010 Central av
CLEVELAND—Atlantic Paint Co.
Atlantic Refining Co. ("Arco")
Billings-Chapin Co., 1163 E 40th
Cleveland Stone Co., Hickox bldg
Eclipse Paint & Mfg. Co., Citizens' bldg
Forest City Paint & Varnish Co., 3334 Lakeside av
Glidden Varnish Co.
Hascall Paint Co., 1348 W 70th
Lino Paint Co. ("Lino" Metal)
Manhattan Paint Co.,
McNairy, A. B. & Co., 1163 E 40th
Monarch Paint Co.
National Paint & Varnish Co.
Patterson-Sargent Co. ("B. P. S.")
Sherwin-Williams Co., 601 Canal rd N W
Tropical Oil Co.
Ullman & Philpott Co., 1592 Merwin av.
U. S. Refining Co. N W
Vaughan Paint Co.
COLUMBUS—Ashbaugh Paint Co.
Dean & Barry Co., Locust & Ludlow
Hanna Paint Mfg. Co. ("Green Seal" Ohio Filler & Shield Co. House Paint)
Shepard Paint Co.
Wrinkle Paint Mfg. Co.
DAYTON—Barrett, Chas. A. P. Co.
Irvin, Jewell & Vinson Co.
Kay & Ess Co.
Lowe Bros. Co., 452 E 3d
FINDLAY—Ohio Paint & Stain Co.
HAMILTON—Reeder, John S. (Cold Japan)
LOCKLAND—Carey, Philip Mfg. Co.

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MARIETTA—Marietta Paint & Color Co.
NILES—Garry Iron & Steel Co. (Metallic)
PLAINVILLE—Ferris, O. J.
TIFFIN—Standard Ultramarine Co.
TOLEDO—Buckeye Paint & Varnish Co., 715 S 15th
Dolphin White Lead & Color Works, 501
WARREN—Warren Paint Co. Superior
WELLSVILLE—Shoub Paint Mfg. Co.

## OREGON.

PORTLAND—Beach, F. E. & Co., 135 1st
Fisher, Thorsen & Co., 160 Front

## PENNSYLVANIA.

ALLENTOWN—Allentown Mfg. Co.
Princes' Metallic Paint Co. ("Princess' & Rutherford's" Dry Metallic, Miners &
BETHLEHEM—Bethlehem Paint Co. Mfrs.)
Erwin, Henry & Sons (Metallic)
EASTON—Williams, C. K. & Co. (Dry)
ERIE—Adams Bros. Co.
**WATSON, H. F. CO. (See adv.** index & branch offices, end of book)
FRANKLIN—Reisenman Mfg. Co. (Ltd.)
JAMESTOWN—Jamestown Paint & Varnish Co.
JOHNSTOWN—Cambria Paint & Color Co.
LANCASTER—Hawthorne, A. F. & Co.
Lancaster Paint & Glass Co.
Schroeder Paint Co.
MUNCY—Keystone Paint & Filler Co.
PHILADELPHIA—Bean, Lewis N. Co., 922 Cherry
**BINSWANGER, B. & CO., 115 N 4th**
Champion, John B., 2827 E Cambria
Clement "Coverall Co., 25 S Orianna
Day Light Coating Co. (Ltd.), 24 S 7th
Felton, Sibley & Co., 140 N 4th
Fibrous Paint Co., Jasper & Willard
Flexible Compound Co., 3607 Haverford
**FRENCH, SAMUEL H. & CO., 4th** c Callowhill. (See adv. index, end of book)
Graves, N. Z. Co., 63 N 2d
Grogan, H. F. & Co., 2113 E Sergeant
Harrison Bros. & Co., 35th & Gray's Ferry rd
Howell, C. H. & Co., 212 Race
Keystone Albumen & Paint Co. (All Kinds), Franklin Bank bldg
Lawrence-McFadden Co., 1400 Franklin
Lucas, John & Co., Race & 4th
Nice, Eugene E., 272 S 2d
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Sedgley
Phoenix Paint & Varnish Co., 124 Market
Protectus Company, North American bldg
Rambo, Theo. G., 981 N 2d
**RINALD BROS., 1142 N Hancock,** (See adv. index, end of book)
Santer, F. W. & Co., 909 N 9th
Schrack, C. & Co., 152 N 4th
Shoemaker, Robert & Co., 201 N 4th
**THOMSON, WOOD FINISHING CO.,** Bulletin bldg. (See adv. index, end of book)
Wetherill, G. D. & Co., 114 N Front
Wetherill, S. P. & Co., Penn Mutual bldg
Wetherill & Bro., S 30th, nr Chestnut
**WILBUR JOB CO., E Tioga &** Del. av. (See adv. index, end of book)
Wiswall Paint Co., 2413 E Huntingdon
Yarnall Paint Co., 1026 Race
PITTSBURG — American Cold Japan Co. (Bridges, Roofs, Stacks, etc.)
American Supply Co.
Eagle Paint & Varnish Co., 225 Galveston
Fort Pitt Oil & Paint Co., 3209 Liberty av
Globe Asphalt Co., Hartje bldg
Hommel, O. Co., 400 Duquesne Way
Iron City Oil & Varnish Co., 808 Inwood & Frankston av
Lawrence, W. W. & Co. ("Lawrence 'The Best Paint' "), W Carson
McClintock & Irvine Co., Neville & P. R. R.
National Lead & Oil Co. (Quick Drying), Commonwealth bldg
**NEVIN, T. H. CO., North Side. (See** adv. index, end of book)
Pittsburg Paint Supply Co., 617 Liberty av
Sterling Varnish Co. (Varnish), Fulton bldg
Snydam, M. B. Co., 61st & Butler
Thompson & Co., Galveston av
Universal Paint & Varnish Co.
READING—Morgan Paint Co., 122 Wood
Ruth, B. F. & Co., 215 S 8th
Wilhelm, A. Co., 3d c Bern
SHAMOKIN—Zimmerman, W. S.
SHARPSBURG—Atlas Paint Co., 18th
TULLYTOWN—Tullytown Paint & Varnish Co.
WILLIAMSPORT—United States Paint Co.
WYOMING—Wyoming Painting & Paint Mfg. Co.

## RHODE ISLAND.

PROVIDENCE—**U. S. GUTTA PERCHA** Paint Co., 12-30 Dudley. (See adv. index, end of book)
**WILBUR, J. CO., 12 Dudley. (See** adv. index, end of book)

## SOUTH CAROLINA.

CHARLESTON—Moore-Leland Paint & Oil Co.

## TENNESSEE.

CHATTANOOGA—Chattanooga Paint Co.
MEMPHIS—Bartholomew Roofing Co., 164 S 2d
Memphis Paint & Glass Co., 204 Gayoso
Memphis White Lead Works, B'way av
True Tagg Paint Co., 442-3 Shelby
NASHVILLE—Nashville Chemical Co.

## TEXAS.

DALLAS—Asbestos Roof Paint Co.
Lincoln Paint & Color Co.
GALVESTON—Baulard, V. L. & Co., 215 Tremont.
HOUSTON—Houston Paint Co.
Houston Varnish & Paint Works (W. S. Rogers, W. H. Co. Scott, Prop.)
Sherwin-Williams Co.
Texas Varnish & Specialty Works

## VERMONT.

SAXTON'S RIVER—Edson, Starks & Co. (Mineral)

## VIRGINIA.

LYNCHBURG—National Paint & Manganese Co. (Ltd.)
NORFOLK—Jenkins Paint & Oil Co.
Marine Paint Corporation

## WASHINGTON.

SEATTLE—McGaha, Wm. P. Co.
Western Paint Co., 2500 3d av
SPOKANE—Spokane Paint & Oil Co.
TACOMA—Marshall Paint Co.
Pacific Glass & Paint Co.

## WEST VIRGINIA.

WHEELING—Wilson, W. A. & Sons

## WISCONSIN.

IRON RIDGE—Winter's Metallic Paint Co.
MILWAUKEE—Cream City Roofing & Paint
Dorestun, Eno & Son Co. Mfg. Co.
Patton Paint Co.
Retardo Fire Proof Paint Co.
Ricketson Mineral Paint Works (Iron Ore)
Zummach, Wm. F.
OSHKOSH—Parker, Ira & Sons Co.
STEVENS POINT—Wisconsin Graphite Co.

# 8065—Paint Mfrs.' Color Cards

Bradt Mfg. Co., Troy, N. Y.
Kinsey & Johnston, Cincinnati, O.
La Clide Mfg. Co., Buffalo, N. Y.
Morrison, Chas. C. (For Mixed Paint, etc.), 820 S Clinton, Chicago, Ill.
Stocker, J. W., 2541 Schubert av
White, W. J. & Co., Detroit, Mich.

# 8066—Paint & Varnish Remover

Acme White Lead & Color Works ("Acme"), Detroit, Mich.
Adams & Elting Co. ("Ad-el-ite"), 724 W Washington, Chicago, Ill.
Albany Chemical Co. ("Albany" Paint & Varnish Remover), Albany, N. Y.
Arnstein, Eugene, Inc., Chicago, Ill.
Ball Chemical Co. ("Ball's"), Pittsburg, Pa.
Berry Bros., Ltd. ("Apex"), Detroit, Mich.
Bird-Archer Co., New York
Bird, J. A. & W. & Co. ("Mistic"), Boston, Mass.
Boston Varnish Co. ("Boston"), Boston, Mass.
Boyle, A. S. & Co. ("Var-ni-go"), Cincinnati, O.
Bradley & Vrooman Co. ("Crown"), 2629 Dearborn, Chicago, Ill.
Bridgeport Wood Finishing Co. ("Bridgeport Standard"), New Milford, Conn.
Burbank & Rider Varnish Co. ("Bunker Hill"), Boston, Mass.
Calman, Emil & Co. ("Zymolite"), 100 William, New York
Campbell Glass Paint Co., St. Louis, Mo.
**CHADELOID CHEMICAL CO., 100** William, New York. (See adv. index, end of book)
Chalmers Chemical Co. ("Phenoid"), Dedham, Mass.
Chicago White Lead & Oil Co. ("Magic"), 821 Fulton, Chicago, Ill.
Crockett, David B. Co. ("E. Z."), Bridgeport, Conn.
De Ronde, Frank S. ("De Ronde"), 24 Stone, New York
Detroit White Lead Works ("Ab-lu-ent"), Detroit, Mich.
Devoe & Raynolds Co. ("Cauteria"), 176 Randolph, Chicago, Ill.
Devoe, F. W. & Raynolds, C. T. Co. ("Devoe"), 101 Fulton, New York
Eberson Paint Co. ("V. & P. Solvent"), St. Louis, Mo.
Electro Mfg. Co. ("Electro"), Detroit, Mich.
Enterprize Paint Mfg. Co. ("Noxall"), 848 W. Van Buren, Chicago, Ill.
Flint Varnish Works, Flint, Mich.


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**Fuller, W. P. & Co.** ("Conqueror"), San Francisco, Cal.
**Gillespie, Chas. H. & Sons** ("Monarch"), Jersey City, N. J.
Glidden Varnish Co., Cleveland, O.
Gould & Cutler, Inc. ("Harrison's"), Boston, Mass.
Harrison Bros. & Co., Inc., Phila., Pa.
**Heath & Milligan Mfg. Co.** ("Wizard"), 172 Randolph, Chicago, Ill.
**Ideal Mfg. Co.** ("Ideal"), 98 Jackson blvd, Chicago, Ill.
Indianapolis Paint & Color Co., Indianapolis, Ind.
**Johnson, S. C. & Son** ("Johnson's Electric Solvo"), Racine, Wis.
**Keystone Varnish Co.** ("23-Skiddo"), 71 Otsego, Brooklyn, N. Y.
**Lawrence, W. W. & Co.** ("Klean-itt"), Pittsburg Pa.
Lincoln Paint & Color Co. ("Lincoln"), Lincoln, Neb.
**Lucas, John & Co.** ("Mirac"), Race and 4th. Philadelphia, Pa.
**McPhee & McGinnity Co.** ("Magic Solvent"), Denver, Colo.
**Michigan Paint Co.** ("Se Tab"), Flint, Mich.
**Palmer-Price Co.** ("Eureka"), Newark, N. J.
**Parrott Varnish Co.** ("Parrott"), Bridgeport, Conn.
**Patterson-Sargent Co.** ("B. P. S."), Cleveland, Ohio
**Patton Paint Co.** ("Patton's"), Milwaukee, Wis.
**Peninsular Paint & Varnish Co., Ltd.** ("Peninsular"), Detroit, Mich.
Perry-Austen Mfg. Co. ("Instint"), Rosebank, S. I., N. Y.
**Pratt & Lambert** ("Expidite"), Buffalo, N. Y.
**Prince Paint Co., Jas. H.** ("Zip"), Boston, Mass.
**Sherwin-Williams Co.** "Taxite"), Cleveland, O.
**Standard Varnish Works** ("Klensa"), 29 Broadway, New York
**Twin City Varnish Co.** ("Kum-Off"), St. Paul, Minn.
**U. S. GUTTA PERCHA PAINT CO.** ("Removal"), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
**Wadsworth-Howland Co.** ("Jewel"), 225 N Carpenter, Chicago, Ill.
**Wadsworth-Howland & Co., Inc.** ("Magic"). Boston, Mass.
**Watson, Geo. E. Co.** ("Faultless"), 108 Lake, Chicago, Ill.

## 8067—Painting Sprays (Compressed Air)

**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 8068— Paints (Acid Proof)

Arlington Mfg. Co., Canton, O.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Canton Paint & Varnish Co., Canton, O.
Chesapeake Oil Co., Baltimore, Md.
Depew Carbon Paint Co., 2734 N Lincoln, Chicago, Ill.
**DOGGETT, STANLEY, 101 Beekman.** (See adv. index, end of book)
Elaterite Paint & Mfg. Co. ("Des Moines Elatrite"), Des Moines, Ia
**GROSCHE, BRUNO, & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
Maire Paint Co., Minneapolis, Minn.
Minwax Co., 1123 B'way ("Minwax"), New York
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO. North Side, Pittsburg, Pa.** (See adv. index, end of book)
Riesenman Mfg. Co., Ltd., Franklin, Pa.
**RINALD BROS., 1142 N Hancock.** Phila., Pa. (See adv. index, end of book)
Schoelljkopf, Hartford & Hanna Co., Abbott rd, Buffalo, N. Y.
Semet-Solvay Co. ("Solvay"), Syracuse, N. Y.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Zibell Damp Resisting Paint Co., 273 Water. New York

## 8069—Paints (Aluminum & Gold)

Adams & Elting Co. (Aluminum), 722 W Wash'n, Chicago, Ill.
Aluminum Co. of America (Aluminum Only), Pittsburg, Pa., & 99 John, New York
**Akron Mining, Milling & Mfg. Co., Aurora, Ill.**
Arlington Mfg. Co., Canton, O.
Arnstein, Eugene (Inc.), 3611 Wentworth av, Chicago, Ill.
Becker-Moore Paint Co., St. Louis, Mo.
**BINSWANGER, B. & CO., 115 N. 4th, Phila., Pa.**
Bronze Powder Works, Elizabeth, N. J.
Cullen, F. C. & Co., 164 Dearborn, Chicago, Ill.
Detroit White Lead Works, Detroit, Mich.
**FRENCH, SAM'L H. & CO., 4th and** Callowhill, Phila, Pa. (See adv. index, end of book)
Gerstendorfer Bros., 231 E 42d, New York
Hommel, O. Co., 400 Duquesne Way, Pittsburg, Pa.
Kay & Ess Co., Dayton, O.
Lawrence, W. W. & Co. ("Lawrence," "Fort Pitt", "Royal"), Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO. North Side, Pittsburg, Pa.** (See adv. index, end of book)
Patton Paint Co. (Aluminum), Milwaukee, Wis.
St. Paul White Lead & Oil Co. ("Lion"), St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
Wilhelm, A. Co., Reading, Pa.

## 8070— Paints (Asbestos)

**Acme White Lead & Color Works, Detroit, Mich.**
American Roofing Co., Kansas City, Mo.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Carey, Philip Mfg. Co., Lockland, O.
Casein Co. of America (Indurline), Bellows Falls, Vt.
Chesapeake Oil Co., Baltimore, Md.
Ehret Magnesia Mfg. Co. Works, Valley Forge, Pa. Land Title bldg, Phila, Pa.
**NEVIN, T. H. CO. North Side, Pittsburg, Pa.** (See adv. index, end of book)


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Oil City Asbestos Co., Oil City, Pa.
Patton Paint Co., Milwaukee, Wis.
Peale Paint & Glass Co., Cincinnati, O.
Sall Mountain Asbestos Mfg. Co., 234 La Salle, Chicago, Ill.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8071— Paints (Asphalt)

Acme White Lead & Color Works, Detroit, Mich.
American Supply Co. (Asphaltum), Pittsburg, Pa.
Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.
Atlantic Paint Co., Cleveland, O.
Barber Asphalt Paving Co. ("Titekote"), Phila., Pa.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Cromwell-Walker Co., Kearny, N. J.
Densmore-Stabler Refining Co., Los Angeles, Cal.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
Globe Asphalt Co., Bakewell bldg, Pittsburg, Pa.
**GROSCHE, BRUNO & CO., 13 Jones** la, New York. (See adv. index, end of book)
**INDIAN REFINING CO., 123 Will**iam, New York. (See adv. index & branch offices, end of book)
Kay & Ess Co., Dayton, O.
McClintock & Irvine Co., Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
National Paint Works, Williamsport, Pa.
National Roofing Co., Tonawanda, N. Y.
Patent Vulcanite Roofing Co. ("Vulcanite"), 1288 S Campbell av, Chicago, Ill.
Patton Paint Co., Milwaukee, Wis.
Schillinger Bros. Co., Toledo, O.
Southern Refining Co., Los Angeles, Cal.
Southern Roofing Co. (Roof), Atlanta, Ga.
Stickney, J. W., 64 Broad, Boston, Mass.
Stowell Mfg. Co., Jersey City, N. J.
Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Warren Chemical & Mfg. Co., 17 Battery pl, New York
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8072— Paints (Asphaltum)

Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.
American Asphaltum & Rubber Co., Harvester bldg, Chicago, Ill.
Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
Canton Paint & Varnish Co., Canton, O.
Continental Varnish & Color Co., Kansas City, Mo.
Cromwell-Walker Co., Kearny, N. J.
Detroit White Lead Works, Detroit, Mich.
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
**Eagle Paint & Varnish Co., N S, Pittsburg, Pa.**
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
**GROSCHE, BRUNO & CO., 13 Jones** la, New York. (See adv. index, end of book)
Kay & Ess Co., Dayton, O.
McClintock & Ervine Co. (Red & Black), Pittsburg, Pa.
**NEVIN, T. H. CO. North Side, Pitts**burg, Pa. (See adv. index, end of book)
Ohio Filler & Shield Co., Columbus, O.
Otley Mfg. Co. ("Eureka"), 1742 N Winchester av, Chicago, Ill.
Rieseman Mfg. Co., Franklin, Mass.
St. Louis Surfacer & Paint Co., St. Louis, Mo.
Thompson & Co., North Side, Pittsburg, Pa.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Wilhelm, A. Co., Reading, Pa.

## 8073— Paints (Barrel)

Becker-Moore Paint Co., St. Louis, Mo.
Chesapeake Oil Co., Baltimore, Md.
**FRENCH, SAML. H. & CO., 4th & Cal**lowhill, Phila., Pa. (See adv. index, end of book)
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Heller & Merz Co., 22 Cliff, New York
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, Jno. & Co., 322 Race, Phila., Pa.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO. North Side, Pitts**burg, Pa. (See adv. index, end of book)
Standard Ultramarine Co., Tiffin, O.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8074— Paints (Bath-Tub)

(See also Enamels, Bath Tub)

**NEVIN, T. H. CO. North Side, Pitts**burg, Pa. (See adv. index, end of book)

## 8075— Paints (Blackboard)

**NEVIN, T. H. CO. North Side, Pitts**burg, Pa. (See adv. index, end of book)

## 8076—Paint (Brick & Concrete)

Adams & Elting Co., 722 W Washington, Chicago, Ill.
Allentown Mfg. Co., Allentown, Pa.
Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Burns, C. L., 156 5th av, New York
Chesapeake Oil Co., Baltimore, Md.
**FOX, M. EWING & CO., 240 E 136th,** New York. (See adv. index, end of book)
**FRENCH, SAML. H. & CO., 4th & Cal**lowhill, Phila., Pa. (See adv. index, end of book)
Hanna Paint Mfg. Co., Columbus, O.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, Jno. & Co., 322 Race, Phila., Pa.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO. North Side, Pitts**burg, Pa. (See adv. index, end of book)
**RINALD BROS., 1142 N. Hancock, Phila.,** Pa. (See adv. index, end of book)
St. Paul White Lead & Oil Co., St. Paul, Minn.
Tropical Oil Co. ("Elastikote"), Cleveland, O.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8077— Paints (Bridge)

(See Paints for Coating & Preserving Iron & Steel)

## 8078—Paints (Brine-Proof)

**RINALD BROS., 1142 N Hancock,** Phila, Pa. (See adv. index, end of book)

## 8079—Paints (Canvas Proof)

St. Louis Surfacer & Paint Co., St. Louis, Mo.

## 8080— Paints (Carbon)

Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Chesapeake Oil Co., Baltimore, Md.
Hascall Paint Co., Cleveland, O.
Manolith Carbon Paint Co., Cincinnati, O.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO. North Side, Pitts**burg, Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8081— Paints (Cement)

Arlington Mfg. Co., Canton, O.
Burns, C. L., 156 5th av, New York
Chesapeake Oil Co., Baltimore, Md.
**FOX, M. EWING & CO., 240 E 136th,** New York. (See adv. index, end of book)
Mound City Paint & Color Co., St. Louis, Mo.
Toch Bros. Est. 1848) ("R. I. W.," "Liquid Konkerit" for Walls, "Tocholith" for etal), 320 5th av, New York
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8082—Paints (Cold Japan)

American Cold Japan Co. (Bridges, Roofs, Stacks, etc.), Pittsburg, Pa.

## 8083— Paints (Cold Water)

Acme Asbestos Covering & Supply Co. ("Acme," Interior & "Bell" Fireproof & Weatherproof Exterior), 1840 Austin av, Chicago, Ill.
Acme White Lead & Color Works, Detroit, Mich.
Adams & Elting Co., 722 W Washington, Chicago, Ill.
Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Bird, J. A. & W. & Co. ("Magnite"), 34 India, Boston, Mass.
Carey, Philip Mfg. Co., Lockland, O.
Columbia Refining Co. ("Aqualite" Fire & Weatherproof; also "Muraltint" & "Hygieni"), 90 West, New York
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
**FOX, M. EWING & CO. ("Permanite"** & "Walwite"), 240 E 136th, New York. (See adv. under Kalsomine Mfrs.)
**FRENCH, SAM'L H. & CO., 4th & Callow**hill, Phila., Pa. (See adv. index, end of book)
Hainbach, Bernard, Providence, R. I.
Hardie Mfg. Co. ("Stay There" Fire & Waterproof), Hudson, Mich.
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Horn, A. C., Co., 8 Burling slip, New York
King Paint Mfg. Co. ("King's"), 27 Dunham pl, Brooklyn, N. Y.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lucas, Jno. & Co., 322 Race, Philadelphia, Pa.
Manhattan Color Works ("Tem-Po-va"), 197 Amsterdam av, New York
Muralo Company, New Brighton, Borough of Richmond, New York
Murphy, Chas. J. & Co., 332 N Calvert, Baltimore, Md.
Paragon Plaster Co., Syracuse, N. Y.
Reddeno Co. ("Lythite"), 24 Stone, New York
Semple, Frank G., Bethlehem, Pa.
Starks, Edson & Co., Saxtons River, Vt.
Troy Cold Water Kalsomine Co. (Klark's XX Kold Water), Troy, N. Y.
United States Gypsum Co. (Alabaster Fireproof) 184 La Salle, Chicago, Ill.
Whittaker, W. H., 245 Front, New York
Wilhelm, A. Co., Reading, Pa.
Winn, Wm. R. ("Winn"), 143 Maiden la, New York
World Refining Co. ("Worldlight"), Easton, Pa.

## 8084— Paints (Copper)

(See also Paints, Marine)

Arlington Mfg. Co., Canton, O.
Baltimore Copper Paint Co., Baltimore, Md.
Briggs, John & Co. ("Challenge" Ready Mixed), Boston, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Chesapeake Oil Co., Baltimore, Md.
Devoe, F. W. & C. T. Raynolds Co., 101 Fulton, New York
**FRENCH, SAML. H. & CO., 4th & Cal**lowhill, Phila., Pa. (See adv. index, end of book)
Henderson & Johnson, Gloucester, Mass.
Howell, C. H. & Co., 212 Race, Phila., Pa.
Kuhls, H. B. Fred ("Elastic"), 719 3d av, Brooklyn, N. Y.
Longman & Martinez, 207 Pearl, New York
Lucas, Jno. & Co., 322 Race, Phila., Pa.
Miller & Graham, Baltimore, Md.
New Jersey Paint Works (H. Louderbough, Prop.), Wayne & Fremont, Jersey City, N. J.
Pierce, F. O. Co., 12 W B'way, New York
Sherwin-Williams Co., Cleveland, O.
Tarr, Jas. H. (Marine), Gloucester, Mass.
Tarr & Wonson, Gloucester, Mass.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

## 8085—Paints (Damp Resisting)

(See also Waterproofing Materials)

Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Canton Paint & Varnish Co., Canton, Ohio
Chesapeake Oil Co., Baltimore, Md.
Feigel, M. & Bro. ("D. R. P."), 80 W Houston, New York
**FRENCH, SAM'L H. & CO., 4th & Cal**lowhill, Phila., Pa. (See adv. index, end of book)
**GROSCHE, BRUNO, & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
Horn, A. C. Co., 8 Burling slip, New York
Lehon Co., W 43d & Lincoln, Chicago, Ill.
Minwax Co. ("Minwax"), 1123 B'way, New York
Patterson-Sargent Co. ("B. P. S."), Cleveland, O.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.

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**U. S. GUTTA PERCHA PAINT CO.**, 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Universal Compound Co., 449 W 28th New York
Von Kokeritz, R. G. & Co. ("Comos"), 114 Liberty, New York
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Zibell Damp-Resisting Paint Co. 273 Water, New York

## 8086— Paints (Dipping)

Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Canton Paint & Varnish Co., Canton, Ohio
Cromwell-Walker Co., Kearny, N. J.
Detroit White Lead Works, Detroit, Mich.
**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
**GROSCHE, BRUNO, & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
Lowe Bros. Co., Dayton, O.
McClintock & Irvine Co. (Paints & Varnishes), Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO., North Side, Pittsburg,** Pa (See adv. index, end of book)
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
St. Paul White Lead & Oil Co., St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
**THOMSON WOOD FINISHING CO.** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## Paints (Enamel)

(See also Enamels)

## 8086a—Paints (Enamel "Porcelite")

**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)

## 8087—Paints (English Bath Enamel & Porcelain)

**RINALD BROS., 1142 N. HANCOCK.** Phila., Pa. (See adv. index, end of book)

## 8088—Paints (Fire Resisting)

Acme Asbestos Covering & Supply Co. (For Spray Pumps & Brushes), 1840 Austin av, Chicago, Ill.
Acme White Lead & Color Wks., Detroit, Mich.
Akron Mining. Milling & Mfg. Co., Aurora, Ill.
American Bitumastic Enamel Co. (Bitumastic Solution), 322 S Delaware av, Phila., Pa.
American Cold Japan Co. (Inc.), Pittsburg, Pa.
American Insulating Material Mfg. Co., Alexandria, Ind.
Arlington Mfg. Co., Canton, O.
Atlantic Refining Co., Cleveland, O.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Canton Paint & Varnish Co., Canton, O.
Chesapeake Oil Co., Baltimore, Md.
Detroit Graphite Co., Detroit, Mich.
Eberson, A. A. & Co., 2000 Pine, St. Louis, Mo
Elaterite Paint & Mfg. Co. ("Des Moines Elaterite"), Des Moines, Ia.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FOX, M. EWING & CO. ("Permanite"),** 240 E 136th, New York. (See adv. index, end of book)
**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Gould Gibraltar Paint Co. ("Gibraltar"), 32 Union sq, New York
**GROSCHE, BRUNO & CO., 13 Jones** lane, New York. (See adv. index, end of book)
Ironsides Co., Columbus, O.
Lowe Bros. Co., Dayton, O.
Lucas, John & Co., 322 Race, Philadelphia, Pa.
McClintock & Irvine Co., Pittsburg, Pa.
Maire Paint Co., Minneapolis, Minn.
**NEVIN, T. H. CO., North Side, Pittsburg,** Pa. (See adv. index, end of book)
Nubian Paint & Varnish Co., 51st av c Bloomingdale av, Chicago, Ill
Patterson, Sargent Co., Cleveland, O.
Patton Paint Co., Milwaukee, Wis.
Pecora Paint Co. (S. Bowen's Son, Successor), 4th st & Reading R R, Phila., Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
**Semet-Solvay Co. ("Solvay" Stack Heat, Resisting), Syracuse, N. Y.**
Stowell Mfg. Co., Jersey City, N. J.
Suydam, M. B. Co., Pittsburg, Pa.
Toch Bros. (Est. 1848) ("R. I. W."), 320 5th av, New York
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)
Weatherine aint Works, 139 Steuben, Brooklyn, N. Y.

## 8089— Paints (Flat Wall)

**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)

## 8090—Paints for Coating & Preserving Iron & Steel

Acme White Lead & Color Works, Detroit, Mich.
Adams & Elting Co., 722 W Washington, Chicago, Ill., & 247 Pearl, New York
Alcatraz Asphalt Paint Co. (Asphalt), Richmond, Va.
Allen Anti-Rust Mfg. Co., Cincinnati, O.
American Asphaltum & Rubber Co., Harvester bldg, Chicago, Ill.
American Bitumastic Enamel Co. (Bitumastic Enamels & Paints), 322 S Delaware av, Phila., Pa.
American Bridge & Structural Preserving Co., 16 State, Boston, Mass.
American Cold Japan Co. (Inc.), Pittsburg, Pa.
American Paint Mfg. Co. ("Ampamaco"), Mattapan, Boston, Mass.
American Roofing Co., Kansas City, Mo.
Arlington Mfg. Co. ("Carbonelastic" Coating), Canton, O.
Armitage Mfg. Co., Richmond, Va.
Atlantic Refining Co., Cleveland, O.


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Barrett Mfg. Co. ("Monitor" Metal), 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Billings-Chapin Co., Cleveland, O.
Billings, King & Co., 438 Pearl, New York, & 153 Congress, Boston, Mass.
Blood, T. L. & Co., St. Paul, Minn.
Buckeye Paint & Varnish Co., Toledo, O.
Burgess, Fobes & Co., Portland, Me.
Cambria Paint & Color Co. (Ltd.), Johnstown,
Canton Paint & Varnish Co., Canton, O. Pa.
Carey, Philip Mfg. Co. ("Carey's"), Lockland, O.
Chatfield Mfg. Co. ("Carbo" Black Enamel), Carthage, O.
Chattanooga Paint Co., Chattanooga, Tenn.
Chesapeake Oil Co., Baltimore, Md.
Chilton Paint Co., 100 William, New York
Clinton Metallic Paint Co., Clinton, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Cromwell-Walker Co., Kearny, N. J.
Depew Carbon Paint Co., 2734 N Lincoln, Chicago, Ill.
Detroit Graphite Co., Detroit, Mich.
Detroit White Lead Works, Detroit, Mich.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Silica Graphite for Metal, also for Wood), Jersey City, N. J.** (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
**Eagle Paint & Varnish Co., N S, Pittsburg, Pa.**
**Elaterite Paint & Mfg. Co. ("Des Moines" Elaterite"), Des Moines, Ia.**
Elko Paint Co. (Anti-Corrosive Mineral Oxide), Randolph, N. Y.
Felton, Sibley & Co., 140 N 4th, Phila., Pa.
Fibrous Paint Co., Jasper & Willard, Phila., Pa.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)**
Frontier Mineral Paint Co., Detroit, Mich.
Garry Iron & Steel Co., Niles, O.
Glidden Varnish Co. ("Glidden's Acid Proof Coating), Cleveland, O.
Goheen Mfg. Co. ("Galvanum"), Canton, O.
Gould Gibraltar Paint Co. ("Gibraltar"), 32 Union sq., New York
**GROSCHE, BRUNO, & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
Hammond-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
Hanna Paint Mfg. Co., Columbus, O.
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Harrison Bros. & Co., 35th & Grays Ferry rd, Phila., Pa.
Heath & Milligan Mfg. Co., 170 Randolph, Chicago, Ill.
International Acheson Graphite Co. (Graphite), Niagara Falls, N. Y.
Ironsides Co., Columbus, O.
Jarrait Paint & Enamel Co., Detroit, Mich.
Jenkins Paint & Oil Co., Norfolk, Va.
Johnson Compound & Supply Co. ("Sumac"), Rochester, N. Y.
Kay & Ess Co., Dayton, Ohio
Keystone Albumen & Paint Co., Franklin Bank bldg, Philadelphia, Pa.
Keystone Paint & Filler Co., Muncy, Pa.
Lawrence, W. W. & Co., Pittsburg, Pa.
Long, Chas. R., Jr., Co., Louisville, Ky.
Lowe Bros. Co., Dayton, O.
Lucas, John & Co., 322 Race, Phila., Pa.
McClintock & Irvine Co., Pittsburg, Pa.
McNaughton, Wm. D., 185 Oakland, Brooklyn, N. Y.
Mamolith Carbon Paint Co., Cincinnati, Ohio
Maryland Steel Co. ("Cunningham" Coal Tar), Sparrow's Point, Md.
Michigan Paint Co., Flint, Mich.
Minwax Co. ("Minwax"), 1123 B'way, New York
Mohawk Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
Monarch Paint Co. (Gum Elastic), Cleveland, Ohio
Mound City Paint & Color Co., St. Louis, Mo.
**Nashville Carbon & Oil Co. ("Durbon" Carbon), Nashville, Tenn.**
National Paint Works, Williamsport, Pa.
**NEVIN, T. H. CO., North Side, Pittsburg,** Pa. (See adv. index, end of book)
Newcastle Paint & Varnish Co., Newcastle, Pa.
Northwestern Mfg. Co., Indianapolis, Ind.
Ohio Chemical Co., Findlay, O.
Ohio Paint & Stain Co., Findlay, O.
Otley Mfg. Co. ("Eureka" Graphite, etc.), 1742 N Winchester av, Chicago, Ill.
Patterson-Sargent Co. ("Nobrac"), Cleveland, Ohio
Patton Paint Co. ("Ironhide"), Milwaukee, Wis.
Pecora Paint Co. (S. Bowen's Son, Successor), ("Pecora"), 4th st & Reading R R, Phila., Pa.
Popplein, G. & N. Jr., 220 North Baltimore, Md.
Preservative Products Co. ("Eco"), 1133 B'way, New York
Prince Mfg. Co., 11 Cliff, New York
**Prince's Metallic Paint Co., Allentown, Pa.**
Protectus Co., North American bldg, Phila., Pa.
Reeder, Jno. S. (Cold Japan), Hamilton, O.
Reisenman Mfg. Co. (Ltd.), (High Heat), Franklin, Pa.
Ricketson Mineral Paint Works, Milwaukee, Wis.
**RINALD BROS. (Bessemer Paints),** 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
Rubber Paint Co., Baltimore, Md.
St. Louis Surfacer & Paint Co. ("Metalsteel"), 26 S Commercial, St. Louis, Mo.
St. Paul White Lead & Oil Co., St. Paul, Minn.
Schoellkopf, Hartford & Hanna Co., Abbott rd, Buffalo, N. Y.
Semet-Solvay Co. ("Crysolite"), Syracuse, N. Y.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., 141 B'way, New York
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Standard Paint Co. ("Flexite"), 100 William, New York
Sterling Varnish Co. ("Sterling" Black Iron Enamel), Pittsburg, Pa.
Stickney, J. W., 64 Broad, Boston, Mass.
Stowell Mfg. Co., Jersey City, N. J.
Suydam, M. B. Co., Pittsburg, Pa.
Swift Paint Co. ("Black Giant," Front End Enamel), Wade bldg., Cleveland, Ohio
Thompson & Co. ("Diamond"), N S, Pittsburg, Pa.
Toch Bros. (Est. 1848) ("Tockolith," Bridge & Structural), 320 5th av, New York
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
**U. S. GUTTA PERCHA PAINT CO., 12-30** Dudley, Providence, R. I. (See adv. index, end of book)
United States Paint Co., Williamsport, Pa.
Vacuum Varnish & Chemical Co., South Norwalk, Conn.
Wadsworth-Howland & Co. (Inc.), Boston, Mass.
Wadsworth-Howland & Co. (Inc.), Boston, Mass
**WATSON, H. F. CO. (Red & Oxide** Metallic), Erie, Pa. (See adv. index & branch offices, end of book)
Weatherine Paint Works, Brooklyn, N. Y.
Whitehead, J. W., Jr., Madison av, New York
Wilhelm, A. Co., Reading, Pa.
World Refining Co., Easton, Pa.

## Paints (Gold)

(See Paints, Aluminum & Gold)

## 8091— Paints (Graphite)

Acme White Lead & Color Works, Detroit, Mich.
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
**Arlington Mfg. Co., Canton, O.**
Atlantic Paint Co., Cleveland, O.
Becker-Moore Paint Co., St. Louis, Mo.
**BINSWANGER, B. & CO., 115 N. 4th,** Phila., Pa.
Blood, T. L. & Co., St. Paul, Minn.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
Buckeye Paint & Varnish Co., Toledo, O.
**Cambria Paint & Color Co. (Ltd.), Johnstown,**
Canton Paint & Varnish Co., Canton, O. **Pa.**
**Chesapeake Oil Co., Baltimore, Md.**
Columbia Refining Co. ("Metalite"), 90 West, New York
Detroit Graphite Co., Detroit, Mich.
**Detroit White Lead Works, Detroit, Mich.**
**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
Elko Paint Co. ("Elko XX" Enamel), Randolph, N. Y.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Goheen Mfg. Co., Canton, Ohio
Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd, Philadelphia, Pa.
Holmes Fibre Graphite Mfg. Co., 5155 Wakefield, Gtn., Phila., Pa.
International Acheson Graphite Co., Niagara
Kay & Ess Co., Dayton, O. Falls, N. Y.
Lawrence, W. W. & Co. ("Duquesne" & "Lawrence"), Pittsburg, Pa.
Lucas, John & Co., 322 Race, Philadelphia, Pa.
Michigan Paint Co., Flint, Mich.
Miller & Graham, Baltimore, Md.
Mound City Paint & Color Co., St. Louis, Mo.
National Paint Works, Williamsport, Pa.
**NEVIN, T. H. CO., North Side, Pittsburg,** Pa. (See adv. index, end of book)
North American Graphite Paint Co. ("Imperial"), Detroit, Mich.
Ohio Filler & Shield Co., Columbus, O.
Otley Mfg. Co. (Mixed in Oil), 1742 N Winchester av, Chicago, Ill.
Patton Paint Co., Milwaukee, Wis.
Reisenman Mfg. Co. (Ltd.), Franklin, Pa.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
St. Louis Surfacer & Paint Co., St. Louis, Mo.
St. Paul White Lead & Oil Co. ("Lion"), St. Paul, Minn.
Sherwin-Williams Co., Cleveland, O.
Suydam, M. B. Co., Pittsburg, Pa.
Thompson & Co., N S, Pittsburg, Pa.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

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United States Graphite Co., Saginaw, Mich.
United States Paint Co., Williamsport, Pa.
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Whitehead, J. W., Jr. ("Whitehead"), 1 Madison av, New York
Wilhelm, A. Co., Reading, Pa.

## 8092—Paints (Heat Resisting)

(See Paints, Fire Resisting)

## 8093— Paints (Hydraulic)

Semet-Solvay Co. ("Solvay"), Syracuse, N. Y.

## 8094— Paints (Insulating)

(See also Insulating Varnish)

Acme White Lead & Color Works, Detroit, Mich.
**American Insulating Material Mfg. Co. (Sawyers' Polar Brand), Alexandria, Ind.**
Arlington Mfg. Co., Canton, O.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
Canton Paint & Varnish Co., Canton, O.
**Chesapeake Oil Co., Baltimore, Md.**
**Depew Carbon Paint Co., 2734 N Lincoln, Chicago, Ill.**
Dielectric Mfg. Co., St. Louis, Mo.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
Hanna Paint Mfg. Co., Columbus, Ohio
Lehon Company, W 43d & Lincoln, Chicago, Ill.
**Massachusetts Chemical Co., Walpole, Mass.**
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
Paragon Insulating Co., Cleveland, O.
Patent Vulcanite Roofing Co. ("Elite" & Mineral Compound), 1288 S Campbell av, Chicago, Ill.
Protectus Co., Phila., Pa.
Semet-Solvay Co. ("Solvay"), Syracuse, N. Y.
Sherwin-Williams Co., Cleveland, O.
Standard Paint Co. ("P. & B."), 100 William, New York
Sterling Varnish Co. (Varnish), Pittsburg, Pa.
Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
Toch Bros. (Est. 1848) ("R. I. W."), 320 5th av, New York
**U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I.** (See adv. index, end of book)
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8095— Paints (Iron Oxide)

Acme White Lead & Color Works, Detroit, Mich.
Allentown Mfg. Co., Allentown, Pa.
Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
**BINSWANGER, B. & CO., ("Sanaloid"), 115 N 4th, Phila., Pa.**
Canton Paint & Varnish Co., Canton, O.
**Chesapeake Oil Co., Baltimore, Md.**
**Fort Pitt Oil & Paint Co., Pittsburg, Pa.**
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
**FRENCH, SAML. H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Goheen Mfg. Co., Canton, O.
Hammond-Boynton Paint & Chemical Co. ("Ferox"), Norwich, Conn.
Hanna Paint Mfg. Co., Columbus, O.
**Ilsley, Doubleday & Co., 229 Front, New York**
Jamestown Paint & Varnish Co., Jamestown, N. Y.
Kay & Ess Co., Dayton, O.
**Lawrence, W. W. & Co. ("Fort Pitt" Red), Pittsburg, Pa.**
Lowe Bros. Co., Dayton, O.
Lucas, John & Co., 322 Race, Phila., Pa.
McClintock & Irving Co., Pittsburg, Pa.
National Paint Works, Williamsport, Pa.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
Patton Paint Co., Milwaukee, Wis.
Rieseuman Mfg. Co. (Ltd.), Franklin, Pa.
Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
St Louis Surfacer & Paint Co., St. Louis, Mo.
Sherwin-Williams Co., Cleveland, O.
Suydam, M. B. Co., Pittsburg, Pa.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
**U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I.** (See adv. index, end of book)
United States Paint Co., Williamsport, Pa.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Wilhelm, A. Co., Reading, Pa.

## 8096—Paints (Japanese Gold)

Gerstendorfer Bros., 231 E 42d, New York

## 8097— Paints (Locomotive)

(See also Paints for Coating & Preserving Iron & Steel)

**GROSCHE, BRUNO, & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)

## 8098— Paints (Machinery)

(See also Paints for Coating & Preserving Iron & Steel)

**BINSWANGER, B. & CO., 115 N 4th, Philadelphia, Pa.**
**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

## 8099—Paints (Marble Enamel)

Menzel, Wm. & Son, 64 Broad, New York

## 8100— Paints (Marine)

(See also Paints, Copper)

Allentown Mfg. Co., Allentown, Pa.
Arlington Mfg. Co., Canton, O.
Berry Bros. (Ltd.), Detroit, Mich.
**BINSWANGER, B. & CO., 115 N. 4th, Phila., Pa.**
Bridgeport Bronze Marine Paint Co., Bridgeport, Conn.
Canton Paint & Varnish Co., Canton, O.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Chesapeake Oil Co., Baltimore, Md.
Chilton Paint Co., 100 William, New York
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Crockett, D. B. Co., Bridgeport, Conn.
Devoe, F. W. & C. T. Reynolds Co., 107 Fulton, New York
Eureka Chemical Co., Newark, N. J.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
**FRENCH, SAML. H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
**GROSCHE, BRUNO, & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
Hammond-Boynton Paint & Chemical Co. ("Ferox" "Iron Oxide"), Norwich, Conn.
Gardiner, Geo. N. & Son ("Am. McInnes' "), 15 William, New York
Glidden Varnish Co., Cleveland, O.
Holzapfel's Am. Compositions Co., 18 B'way, New York
Keystone Albumen & Paint Co., Franklin Bank bldg, Phila., Pa.
Kuhls, H. B. Fred ("Elastic" Copper, Anti-Fouling, etc.), 719 3d av, Brooklyn, N. Y.
Lane & De Groot Co., Long Island City, N. Y.
Lawrence, W. W. & Co., Pittsburg, Pa.
Lowe Bros. Co., Dayton, O.
Lucas, John & Co., 322 Race, Phila., Pa.
Mamolith Carbon Paint Co., Cincinnati, O.
Miller & Graham, Baltimore, Md.
Mound City Paint & Color Co., St. Louis, Mo.
Nansen Composition & Paint Co., 26 Water, New York
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
New Jersey Paint Works (Louderbough, Hy., Prop.), (Motor Boat), Jersey City, N. J.
Patton Paint Co., Milwaukee, Wis.
Protectus Co., Phila., Pa.
Rahtjen's American Composition Co., 1 B'way, New York
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
St. Louis Surfacer & Paint Co., St. Louis, Mo.
Standard Varnish Works, 29 B'way, New York
Sherwin-Williams Co., Cleveland, O.
Sonneborn, L. & Sons (Inc.), ("Amalia"), 26 Pearl, New York
Standard Ultramarine Co., Tiffin, O.
Tarr, Jas. H. (Copper & Iron), Gloucester.
Tarr & Wonson, Gloucester, Mass.
Teredo-Proof Paint Co. ("Kennon's" Teredo-Proof), Produce Exchange, New York
Toch Bros. (Est. 1848) ("R. I. W.," "Plastic Marine Tocholith"), 320 5th av, New York
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila, Pa. (See adv. index, end of book)
**U. S. GUTTA PERCHA PAINT CO.,** 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Winn, Wm. R. (Spar, etc.), 143 Maiden la, New York

## 8101—Paints (Metal Protecting)

(See Paints for Coating & Preserving Iron & Steel; also Paints, Iron Oxide; also Paints, Graphite)

## 8102—Paints (Metal Shingle)

(See also Shingle Stains)

**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)

## 8103—Paints (Mine & Tunnel)

**Semet-Solvay Co. ("Solvay"), Syracuse, N. Y.**

## 8104—Paints (Mixed for Export)

Adams & Elting Co., 722 W Wash'n, Chicago, Ill., & 247 Pearl, New York
Arlington Mfg. Co., Canton, O.
Briggs, John & Co., Boston, Mass.
Carrara Paint Co., Barberton, O.
Detroit Refining Co., Majestic bldg, Detroit, Mich.
Eagle Paint & Varnish Co., N S, Pittsburg, Pa.
**FRENCH, SAML. H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
King Paint Mfg. Co., 27 Dunham pl, Brooklyn, N. Y.
Lawrence, W. W. & Co., Pittsburg, Pa.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Toch Bros. (Est. 1848), 320 5th av, New York
Weatherine Paint Works, 139 Steuben, Brooklyn. N. Y.

## 8105— Paints (Oil)

Arlington Mfg. Co., Canton, O.
Becker-Moore Paint Co., St. Louis, Mo.
Continental Varnish & Color Co., Kansas City, Mo.
**FRENCH, SAML. H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Lawrence, W. W. & Co. ("Cola" Brown), Pittsburg, Pa.
Muralo Company, New Brighton, Borough of Richmond, New York
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
Raritan Paint Co., New Brighton, Borough of Richmond, New York
United States Compound Co., Flint, Mich.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

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## 8107—Paints (Porcelain Enamel)

**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)

## 8108— Paint (Rail Bonding)

**AMERICAN STEEL & WIRE CO. (Lever** or Electric Motor, Single, Double & Triple Spindle), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8109—Paints (Railway Signal)

**NEVIN, T. H. CO.,** North Side, Pittsburg, Pa. (See adv. index, end of book)

## 8110— Paints (Roofing)

Acme White Lead & Color Works, Detroit, Mich.
Adams & Elting, 722 W Wash'n, Chicago, Ill., & 247 Pearl, New York
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
Allen Anti-Rust Mfg. Co., Cincinnati, O.
American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
American Cold Japan Co. (Inc.), Pittsburg, Pa.
American Elastic Roof Paint Co., New London Conn.
American Roofing Co., Kansas City, Mo.
American Supply Co., 960 2d av, Pittsburg, Pa.
Arlington Mfg. Co., Canton, O.
Armitage Mfg. Co., 3200 Williamsburg av, Richmond, Va.
Asbestos Roof Paint Co., Dallas, Tex.
Asphalt Roofing Co. ("Wanigas"), Saginaw, Mich.
Atlantic Refining Co., Cleveland, O.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Billings-Chapin Co., Cleveland, O.
Billings, King & Co., 438 Pearl, New York, & 153 Congress, Boston, Mass
**BINSWANGER, B. & CO., 115 N. 4th.** Phila., Pa.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
Bradford, James Co., Wilmington, Del.
Buckeye Paint & Varnish Co., Toledo, O.
Cambria Paint & Color Co. (Ltd.), Johnstown,
Canton Paint & Varnish Co., Canton, O. Pa.
Carey, Philip Mfg. Co. ("Carey's"), Lockland, O.
Chattanooga Paint Co., Cattanooga, Tenn.
Chesapeake Oil Co., Baltimore, Md.
Chilton Paint Co.,100 William, New York
Cleveland Iron Ore Paint Co., Cleveland, O.
Columbus Paint Co. (Groff Bros., Proptrs.) ("Egyptian"), Columbus, Ohio
Connors, Wm. Paint Mfg. Co., Troy N. Y.
Continental Paint & Mfg. Co. ("Rockalyte"), Cleveland, O.
Continental Varnish & Color Co., Kansas City. Mo.
Cromwell-Walker Co., Kearny, N. J.
Detroit Refining Co., Detroit, Mich.
Devoe, F. W. & C. T. Raynolds Co., 103 Fulton, New York
Eagle Paint & Varnish Co., N S, Pittsburg, Pa.
Eastern Granite Roofing Co., 18 Battery pl, New York
Ehret Magnesia Mfg. Co., Land Title bldg, Phila, Pa. Works, Volley Forge, Pa.
Elaterite Paint Mfg. Co. ("Des Moines Elaterite"), Des Moines, Iowa
Elko Paint Co. (Enamel Oxide), Randolph, N. Y.
Felton, Sibley & Co., 140 N. 4th, Phila., Pa.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FRENCH, SAML. H. & CO., 4th & Cal**lowhill, Phila., Pa. (See adv. index, end of book)
General Roofing Mfg. Co., East St. Louis, Ill.
Goheen Mfg. Co., Canton, O.
Gould Gibraltar Paint Co., 32 Union sq., New York
**GROSCHE, BRUNO & CO., 13 Jones** la, New York. (See adv. index, end of
Hanna Paint Mfg. Co., Columbus, O. book)
Hammond-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
Hascall Paint Co. ("Thermalite"), Cleveland Ohio
Hawthorn, A. F. Roof Paint Co., Lancaster, Pa.
Heath & Milligan Mfg. Co., 170 Randolph. Chicago, Ill.
Howell, Chas. H. & Co., 212 Race, Phila., Pa.
Hisley, Doubleday & Co., 229 Front, New York
Ironsides Co., Columbus, O.
Japan Elastic Roof Paint Mfg. Co. ("Japan" Elastic), Memphis, Tenn.
Kay & Ess Co., Dayton, Ohio
Keystone Paint & Filler Co., Muncy, Pa.
Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.
Lawrence, W. W. & Co. ("Lawrence" & "Duquesne"), Pittsburg, Pa.
Lehon Co., W 43d & Lincoln, Chicago, Ill.
Longman & Martinez, 207 Pearl, New York
Lowe Bros. Co., Dayton, O.
Lucas, John & Co., 322 Race, Phila., Pa.
McClintock & Irvine Co., Pittsburg, Pa.
Maire Paint Co., Minneapolis, Minn.
Mamolith Carbon Paint Co., Cincinnati, O.
Martin Co., 192 Water, New York
Mepham, G. S. & Co., East St. Louis, Ill.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Miller & Graham, Baltimore, Md.
Minwax Co. ("Minwax" Red), 1123 B'way, New York
Monarch Paint Co. ("Hydro-Carbonite"), Cleveland, O.
Mound City Paint & Color Co., St. Louis, Mo.
Nashville Carbon & Oil Co. ("Durbron"), Nashville, Tenn.
National Paint Works, Williamsport, Pa., & 100 William, New York
National Roofing Co., Tonawanda, N. Y.
National Roofing Materials Co. (Mastic), Edwardsville, Ill.
**NEVIN, T. H. CO.,** North Side, Pittsburg, Pa. (See adv. index, end of book)
Northwestern Mfg. Co., Indianapolis, Ind.
Ohio Chemical Co., Findlay, O.
Ohio Paint & Stain Co. ("Standard" Liquid Enamel), Findlay, O.
Otley Mfg. Co. ("Eureka" & Mineral), 1742 N Winchester av, Chicago, Ill.
Patterson-Sargent & Co., Cleveland, O.
Patton Paint Co. (Asbestos), Milwaukee, Wis.
Pecora Paint Co. (S. Bowen's Son, Successor), ("Pecora"), 4th st & Reading R R, Phila., Pa.
Phelan-Faust Paint Mfg. Co., St. Louis, Mo.
Prince Mfg. Co., 11 Cliff, New York
Reeder, Jno. S. (Cold Japan), Hamilton, O.
Ricketson Mineral Paint Works (Iron Ore), Milwaukee, Wis.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
Rubber Paint Co. (Rubber), Baltimore, Md.
St. Louis Surfacer & Paint Co., St. Louis, Mo.
St. Paul White Lead & Oil Co.( "Lion"), St. Paul, Minn.
Semple, Frank G., Bethlehem, Pa.
Sherwin-Williams Co., Cleveland, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Standard Paint Co., 100 William, New York
Star Paint & Varnish Co., Cleveland, O.
Stewart, W. H. Mfg. Co., 65 Delevan, Brooklyn, N. Y.
Stowell Mfg. Co., Jersey City, N. J.
Suydam, M. B. Co., Pittsburg, Pa.
Toch Bros. (Est. 1848) ("R. I. W."), 320 5th av, New York
Tropical Oil Co. ("Elastikote"), Cleveland. O.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
Ullmann-Philpott Co., Cleveland, O.
U. S. Graphite Co., Saginaw, Mich.
**U. S. GUTTA PERCHA PAINT CO., 12-30** Dudley, Providence, R. I. (See adv. index, end of book)
U. S. Paint Co., Williamsport, Pa.
U. S. Refining Co. ("Everlasting Black"), Cleveland, O.
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
Warren Chemical & Mfg. Co., 17 Battery pl, New York
Wadsworth, Howland & Co. (Inc.), Boston, Mass.
**WATSON, H. F. CO. (Asbestos), Erie, Pa.** (See adv. index & branch offices, end of book)
Weatherine Paint Works, 139 Steuben, Brook-
Wilhelm, A. Co., Reading, Pa. lyn, N. Y.
Woolsey, C. A. Paint & Color Co., Jersey City,
World Refining Co., Easton, Pa. N. J.


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## 8111– Paints (Rust Proof)

Acme White Lead & Color Works, Detroit, Mich.
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
Allen Anti-Rust Mfg. Co., 5th & Race, Cincinnati, O.
American Cold Japan Co. (Inc.), Pittsburg, Pa.
American Roofing Co., Kansas City, Mo.
Arlington Mfg. Co., Canton, O.
Barrett Mfg. Co., 17 Battery pl, New York
Becker-Moore Paint Co., St. Louis, Mo.
Canton Paint & Varnish Co., Canton, O.
Chatfield Mfg. Co. ("Carbo" Black Enamel), Carthage, O.
Chesapeake Oil Co., Baltimore, Md.
Depew Carbon Paint Co., 2734 N Lincoln, Chicago, Ill.
Detroit Graphite Co., Detroit, Mich.
Dielectric Mfg. Co. ("W. D. Paint"), St. Louis, Mo.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Good Paint Co. ("Carbonall"), 1709 W Austin av, Chicago, Ill.
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)
Heath & Milligan Mfg. Co. ("Mindura"), Chicago, Ill.
LiNo Paint Co., Cleveland, O.
Lowe Bros. Co., Dayton, O.
Lucas, John & Co., 322 Race, Phila., Pa.
Minwax Co. ("Minwax"), 1123 B'way, New York
Mound City Paint & Color Co., St. Louis, Mo.
Nashville Carbon & Oil Co. ("Durbon" Carbon), Nashville, Tenn.
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Suydam, M. B. Co., Pittsburg, Pa.
Toch Bros. (Est. 1848) ("R. I. W."), 320 5th av, New York
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
**U. S. GUTTA PERCHA PAINT CO., 12-30** Dudley, Providence, R. I. (See adv. index, end of book)
Von Kokeritz, R. G. & Co. ("Comos"), 114 Liberty, New York
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Zibell Damp Resisting Paint Co., 273 Water, New York

## 8112–Paints ("Sanaloid," Paste)

**SANALOID (For Interior White), 930 N. 3d, Phila., Pa.**

## 8113– Paints (Sheep)

Mound City Paint & Color Co., St. Louis, Mo.
**St. Paul White Lead & Oil Co. ("Lion" for Sheep Branding), St. Paul, Minn.**

## Paints (Shingle)

(See Shingle Stains)

## 8114–Paints (Silica Graphite)

**DIXON, JOS. CRUCIBLE CO., Jersey City, N. J.** (See adv. index & branch offices, end of book)

## 8115–Paints (Smokestacks)

**(See Paints for Coating & Preserving Iron & Steel)**

## 8116–Paints ("Smooth-On" for Iron)

**SMOOTH-ON MFG. CO., 572 Communipaw av, Jersey City, N. J.** (See adv. index & branch offices, end of book)

## 8117–Paints (Steam-Proof)

Acme White Lead & Color Works, Detroit, Mich.
Arlington Mfg. Co., Canton, Ohio
Barrett Mfg. Co., 17 Battery pl, New York
Buckeye Paint & Varnish Co., Toledo, O.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)
Lucas, John & Co., 322 Race, Philadelphia, Pa.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

## 8118–Paints (Steel Car Coating)

**(See also Paints for Coating & Preserving Iron & Steel)**

**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
**RINALD BROS., 1142 N Hancock** Phila., Pa. (See adv. index, end of book)

## 8119– Paints (Technical)

**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)

## 8120– Paints (Teredo-Proof)

Arlington Mfg. Co. ("Creolite"), Canton, O.
Teredo-Proof Paint Co. (For Preserving Piles, Ties & Timber, etc.), Produce Exchange, New York

## 8121–Paints (Trolley Pole)

(See also Paints for Coating & Preserving Iron & Steel)

**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Toch Bros. (Est. 1848) ("R. I. W."), 320 5th av, New York
**U. S. GUTTA PERCHA PAINT CO., 12-30** Dudley, Providence, R. I. (See adv. index, end of book)

## 8122–Paints (Water Color)

**AMERICAN CRAYON CO., Sandusky, O., & Waltham, Mass.** (See adv. index, end of book)

## 8123–Paints (Waterproof)

Acme White Lead & Color Works, Detroit, Mich.
Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
American Cold Japan Co. (Inc.), Pittsburg, Pa.
American Roofing Co., Kansas City, Mo.
Arlington Mfg. Co., Canton, O.
Barrett Mfg. Co., 17 Battery pl, New York
Becksr-Moore Paint Co., St. Louis, Mo.
**BINSWANGER, B. & CO., 115 N. 4th, Philadelphia, Pa.**
Bird, F. W. & Son ("Parine"), East Walpole, Mass.
Boydell Bros. White Lead & Core Co., Detroit, Mich.
Canton Paint & Varnish Co., Canton, O.
Chesapeake Oil Co., Baltimore, Md.
Chatfield Mfg. Co. ("Carbo" Black Enamel), Carthage, O.
Elaterite Paint & Mfg. Co. ("Des Moines Elaterite"), Des Moines, Ia.
Fibrous Paint Co., Jasper & Willard, Phila., Pa.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FRENCH, SAML. H. & CO., 4th & Callowhill, Phila., Pa.** (See adv. index, end of book)
Gould Gibraltar Paint Co., 32 Union sq., New York
**GROSCHE, BRUNO & CO., 13 Jones Lane,** New York. (See adv. index, end of book)
**Lehon Co., W. 43d & Lincoln,** Chicago, Ill.
Lowe Bros. Co., Dayton, O.
Minwax Co. ("Minwax"), 1123 B'way, New York
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
New Jersey Paint Works (Louderbough, Hy., Prop.), Jersey City, N. J.
North Jersey Paint Co. ("Edison"), 1123 B'way, New York
**RINALD BROS., 1142 N Hancock,** Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Stocker, F. Wm. & Co., Inc. ("Soloto"), 34 W 33rd, New York
Streett, J. D. & Co., St. Louis, Mo.
Suydam, M. B. Co., Pittsburg, Pa.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
**U. S. GUTTA PERCHA PAINT CO., 12-30** Dudley, Providence, R. I. (See adv. index, end of book)
Waterproof Paint Co., Watertown, Mass.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Zibell Damp Resisting Paint Co. (In All Colors), 273 Water, New York

## 8124–Palladium (Sheet & Wire)

**AMERICAN PLATINUM WORKS,** Chestnut st & N J R R av, Newark, N. J. (See adv. index, end of book)

## 8125– Pallets (Brick)

**ATLAS CAR & MFG. CO. (Pressed** Steel), 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)
Avery Stamping Co., Cleveland, O.
Central Expanded Metal Co. (Steel), Pittsburg, Pa.
Mershon, Eddy, Parker So. (Wood), Saginaw, Mich.
Ohio Ceramic Engineering Co. (Hot Air), Cleveland, O.
Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.

## 8126– Panels (Enclosure)

**DARBY, EDW. & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of book)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)

## 8127– Pans (Acid)

Jones & McKee, 149 B'way, New York
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Moore, Samuel L. & Sons Corp., Elizabeth, N. J.

## Pans (Amalgamating)

(See Amalgamating Pans & Barrels)

## 8129– Pans (Annealing)

**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO. Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Ohio Mfg. Co., Painesville, O.

## 8130–Pans (Automobile Dust)

**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)

## 8131– Pans (Bread)

Chapman, C. A. ("Crusty" Steel), Geneva, N. Y.
Katzinger, Edward Co. (Sanitary Strapped), 120 N Peoria, Chicago, Ill.

## 8132– Pans (Cast Iron)

United States Cast Iron Pipe & Fdry Co., 71 B'way, New York

## 8133– Pans (Cement)

Honhorst, Joseph Co., Cincinnati, O.

## 8134– Pans (Chemical)

Bethlehem Fdry. & Machine Co., South Bethlehem, Pa.
McCabe Boiler Works, Newark, N. J.

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## 8135— Pans (Chip)

**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

## 8136— Pans (Clean-Up)

Chalmers & Williams, Chicago Heights, Ill.
**Power & Mining Machinery Co. (For Gold, Silver, etc.), Cudahy, Wis.**

## 8137— Pans (Drip)

Bronson-Walton Co. ("Never Burn," Family), Collinwood, Cleveland, O.
Central Stamping Co., 174 Fulton, New York
Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Durlach, I. (For Engineers), 54 Vesey, New York
**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. (See adv. index & branch offices, enr of book)
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
**GRAVER, WM. TANK WORKS** (Jacketed Steam, Salt), East Chicago, Ill. (See adv. index & branch offices, end of book)
Hayes Mfg. Co., Detroit, Mich.
Hibbs, E. A. (Est. of), 213 Quarry, Phila., Pa.
Hill Dryer Co. ("Hill's," Auto), Worcester, Mass.
Keighley, S., Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
Northwestern Consolidated Iron & Steel Mfg. Co. ("Hudson," Double, etc.), Burlington, Iowa
**PORTER IRON ROOFING & CORRU**gating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Wheeling Corrugating Co., Wheeling, W. Va.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 8137a—Pans (Drip, Automobile)

**BURROWES, E. T. CO. ("Royal"),** Portland, Me. (See adv. index, end of book)

## 8138— Pans (Dry)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**AMERICAN CLAY MACHINERY CO.** (And Wet), Bucyrus, O., & Willoughby, O.
Anderson Foundry & Machine Works, Anderson, Ind.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bonnot Co., Canton, O.
**CARLIN'S, THOS. SONS CO. (Also** Wet), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Chambers Bros. Co. (Clay, etc.), 52d below Lancaster av, Phila., Pa.
Clearfield Machine Shops (Ltd.) (Also Wet), Clearfield, Pa.
Eagle Iron Works, Des Moines, Ia.
Fernholtz Brick Machinery Co. ("Eagle"), St. Louis, Mo.
Frost Mfg. Co. ("Frost," also Wet Pans), Galesburg, Ill.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Means Engineering & Foundry Co. (& Wet), Toronto, O.
Patterson Foundry & Machine Co., East Liverpool, O.
Pennsylvania Crusher Co. (Also Wet Pans), Stephen Girard bldg, Phila., Pa.
Phillips & McLaren (Also Wet Pans), 24th & Smallman, Pittsburg, Pa.
Portsmouth Machine & Casting Co., Portsmouth, O.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Raymond, C. W. Co., Dayton, O.
Scott-Madden Iron Works Co., St. Louis, Mo.
Stevenson Co., Wellsville, O.
Taplin-Rice-Clerkin Co., Akron, O.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

## 8139— Pans (Dust)

**AMERICAN CAN CO., 447 W 14th, New York. (See adv. index & branch offices, end of book)**
Atlantic Stamping Co., Rochester, N. Y.
Avery Stamping Co., Cleveland, O.
Brown Stamping Co., Toledo, O.
Central Stamping Co., (Steel Edge), 174 Fulton, New York
Climax Lock & Ventilator Co. ("Climax" Long Handle), Buffalo, N. Y.
Delphos Mfg. Co. ("Delphos" Long Handle), Delphos, Ohio
Dover Stamping & Mfg. Co., Cambridge, Mass.
Fries, Geo. Sons, 909 Filbert, Phila., Pa.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Globe Stamping Co., Buffalo, N. Y.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Knapp Mfg. Co., 20 Warren, New York
Lasher Mfg. Co. ("Sanitary" Long Handle), Davenport, Iowa
Utility Mfg. Co., Sturgis, Mich.

## 8140— Pans (Evaporating)

(See also Evaporators)

Bethlehem Foundry & Machine Co. (Cast Iron), South Bethlehem, Pa.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
Diller, Caskey & Keen (For Greenhouses), 6th & Berks, Phila., Pa.
Dover Stamping & Mfg. Co., Cambridge, Mass.
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Stuart & Peterson Co., Burlington, N. J.
Townsend Furnace & Machine Shop Co. (Cast Iron, for Chemical Mfrs., etc.), Albany, N.Y.

## 8141— Pans (Fry)

Avery Stamping Co. ("Never Break" Steel Spider), Cleveland, O.
Central Stamping Co., 174 Fulton, New York
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Griswold Mfg. Co. ("Griswold", Aluminum), Erie, Pa.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
National Enameling & Stamping Co., 374 B'way, New York
New England Enameling Co. ("Wont-Burn" Enameled Steel), Middletown, Conn.
New York Stamping Co. ("Acme," "Empire," "Brooklyn" Steel, Cold Handle), N 11th & Berry, Brooklyn, N. Y.
Northwestern Consolidated Iron & Steel Co. ("Hudson's", Double), Burlington, Iowa
Republic Metalware Co., Buffalo, N. Y.
Silver & Co., 312 Hewes, Brooklyn, N. Y.
Tyler Specialties Co. ("No-Smoak"), Rome, N. Y.

## 8142— Pans (Gravel)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Hibbs, E. A. (Est. of), 213 Quarry, Phila., Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 8143— Pans (Grinding)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Clay Machinery Co., Bucyrus, O.
**CARLIN'S, THOS. SONS CO. (Dry &** Wet), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Clearfield Machine Shop (Ltd.) (Wet & Dry), Clearfield, Pa.
Phillips & McLaren, Pittsburg, Pa.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Sterrit-Thomas Foundry Co., Pittsburg, Pa.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
United Engineering & Foundry Co. (Pans 6 to 9 feet for Rolling Mills, etc.), Farmers' Bank bldg, Pittsburg, Pa.

## 8143a—Pans (Jacketed Steam)

**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)

## 8144— Pans (Lathe)

(See also Pans, Drip)

Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co., So. Framingham, Mass.
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
Ohio Mfg. Co., Painesville, O.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 8145— Pans (Lead)

Heggie-Woodruff Pressed Steel Co., Joliet, Ill.

## 8146— Pans (Pressure)

Zarewba Co., Buffalo, N. Y.

## 8147— Pans (Refrigerator)

Atlantic Stamping Co. ("Atlantic" Galvanized Iron), Rochester, N. Y.
Central Stamping Co., 174 Fulton, New York
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 8148— Pans (Salt)

Bethlehem Fdry. & Machine Co., South Bethlehem, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Rapid Evaporator Co., Detroit, Mich.

## 8149— Pans (Shop)

Avery Stamping Co. (Sheet Steel), Cleveland, O.
Clark, W. J. Co. (Steel), Salem, O.
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
Kilbourne & Jacobs Mfg. Co. (Pressed Steel), Columbus, O.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LYON METALLIC MFG. CO., Aurora,** Ill. (Se adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
Ohio Mfg. Co., Painesville, O.
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 8150—Pans (Steam Revolving)

Day, J. H. & Co., Cincinnati, O.
Holmberg, Chas. & Co., 313 W Michigan, Chicago, Ill.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 8151—Pans (Sugar Coating)

Colton, Arthur Co. (Revolving), Detroit, Mich.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 8152— Pans (Sweating)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 8153— Pans (Vacuum)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
American Copper & Brass Works, Cincinnati, Ohio
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Baeuerle & Morris, 932 N Front, Phila, Pa.
Bartlett, Hayward & Co., Baltimore, Md.
Boston Copper Works Co., Boston, Mass.
Bowman, Walker, 39 Cortlandt, New York
Blymyer Iron Works Co., Cincinnati, O.
Coldwell-Wilcox Co., Newburgh, N. Y.
Deeley, Rob't & Co., 29 B'way, New York
Dopp, W. H. Co., Buffalo, N. Y.
Dyer Co., Cleveland, O.
Enameled Pipe & Engineering Co. (Steel Enameled), Elyria, O.
Flynn, W. S., Jersey City, N. J.
Goetz & Flodin Mfg. Co., 1802 Clybourne av, Chicago, Ill.
Guild & Garrison, ft of S 10th, Brooklyn, N. Y.

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**Harris, Arthur & Co., 212 N Curtis, Chicago, Ill**
**Holmberg, Chas. & Co. (Confectioners, etc.), 313 W Michigan, Chicago, Ill.**
**Kehoe & Sons, Savannah, Ga.**
Kilby Mfg. Co. (Cast Iron & Steel), Cleveland, O.
Krajewski-Pesant Co., 21 State, New York
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**Manistee Iron Works Co. (For Salt), Manistee, Mich.**
**Marietta Iron Works Co., Manistee, Mich.**
**Morris Engineering Co., 333 Walnut, Phila. Pa.**
Murphy, John H., Iron Works, New Orleans, La.
Payne & Joubert, New Orleans, La.
Phillips, Thos. Co., Providence, R. I.
**Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.**
**Pusey & Jones Co., Wilmington, Del.**
Rapid Evaporator Co., Detroit, Mich.
**Rourke, John & Sons, Savannah, Ga.**
Sowers Mfg. Co., Buffalo, N. Y.
Sperry, D. R. & Co., Batavia, Ill.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Stearns-Roger Mfg. Co., Denver, Colo.
Wasel's Copper Works, 50 N 3d, Brooklyn, N. Y.
**WHEELER CONDENSER & ENGI**neering Co. ("Wheeler"), Carteret, N. J. (See adv. index & branch offices, end of book)
**Wood, R. D. & Co., 400 Chestnut, Phila., Pa.**
Zaremba Co., Buffalo, N. Y.

## 8154— Pans (Wax)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 8155— Pantographs

**Ashcroft Mfg. Co., 85 Liberty, New York**
**ELLIOTT, B. K. CO., 108 6th, Pitts**burg, Pa. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 8156—Pantry Windows (Revolving)

Van Kannel Revolving Door Co., Fuller bldg, New York

## 8157— Paper (Anti-Rust)

**American Paper Mills, 201 Wooster, New York**
**Dilworth Paper Co., Pittsburg, Pa.**
Robertson, C. M. Co., Montville, Conn.
Whittelsey Paper Co., Windsor Locks, Conn.

## 8158— Paper (Bag)

Cheboygan Paper Co., Cheboygan, Mich.
**Cleveland-Akron Bag Co., Cleveland, O.**
Crown-Columbia Pulp & Paper Co., San Francisco, Cal.
Cushnoc Paper Co., Augusta, Ga.
DeGrasse Paper Co., Pyrities, N. Y.
Dexter Sulphite Pulp & Paper Co., Dexter, N. Y.
**Dilworth Paper Co., Pittsburg, Pa.**
Eddy Paper Co., Three Rivers, Mich.
E-Z Opener Bag Co., Taylorville, Ill.
**Fletcher Paper Co., Alpena, Mich.**
Henry Paper Co., The, Lincoln, N. H.
International Paper Co., 30 Broad, New York
Island Paper Co., Carthage, N. Y.
Jaite Co., Boston, O.
Lake Champlain Pulp & Paper Co., Plattsburgh, N. Y.
Marathon Paper Mills Co., Wausau, Wis.
Marseilles Wrapping Paper Co., Marseilles, Ill.
McDowell Paper Mills, Manayunk, Phila., Pa.
Michigan Bag & Paper Co., Jackson, Mich.
New York & Pennsylvania Co., 200 5th av, New York
Orono Pulp & Paper Co., Bangor, Me.
Progressive Pulp & Paper Co., Plattsburgh, N. Y.
Raquette River Paper Co., Potsdam, N. Y.
Rogers, J. & J. Co., Ausable Forks, N. Y.
Union Bag & Paper Co., 17 Battery pl, New York
Victoria Paper Mills, Fulton, N. Y.
Volney Paper Co., Fulton, N. Y.
Yellow Pine Paper Mill Co., Orange, Tex.

## 8159—Paper (Bank Note)

Crane & Co., Dalton, Mass.

## 8160—Paper (Black Coated)

**WATSON, H. F. CO. (Waterproof),** Erie, Pa. (See adv. index & branch offices end of book)

## 8161— Paper (Blasting)

Megargee Bros. (Waterproof), Scranton, Pa.

## 8162— Paper (Blotting)

Albermarle Paper Mfg. Co. ("World", "Hollywood", "Reliance", "Vienna Moire", "Directoire"), Richmond, Va.
Bardeen Paper Co. (Interlocking), Otsego, Mich.
Bedford Pulp & Paper Co., Richmond, Va.
Crocker, Burbank & Co., Fitchburg, Mass.
District of Columbia Paper Mfg. Co., Washington, D. C.
Eaton, Dikeman Co., Lee, Mass.
Gilbert, Frank Paper Co., Waterford, N. Y.
**HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)**
**Hampden Glazed Paper & Card Co. (Glazed), Holyoke, Mass.**
**Parker, Jos. & Son Co., New Haven, Conn.**
**Richmond Paper Mfg. Co. ("Climax," "Star" & Enameled), Richmond, Va.**
**Standard Paper Mfg. Co. ("Sterling," "Imperial" & "Standard" Plain; "Royal Worcester" & "Defender" Enameled; "Curi-Curl" & "Banker's Linen Finish" Embossed), Richmond, Va.**
**Vinton, W. H. & Son, Brattleboro, Vt.**
**Wrenn Paper Co. ("Wrenn's Best," "Wrenn's Record," "Mosaic," "Miami," "Antlers," "Enameled," "Royal Colors"), Middletown, Ohio**

## 8163—Paper (Blue Print) Mfrs.

Plover Paper Co., Menasha, Wis.
Rising, B. D. Paper Co., Housatonic, Mass.
Riverview Coated Paper Co. (Coated), Kalamazoo, Mich.

## 8164— Paper (Bond)

Aetna Paper Co., Dayton, O.
American Writing Paper Co., Holyoke, Mass.
Beckett Paper Co., Hamilton, O.
Berkshire Hills Paper Co., Adams, Mass.
Brown, L. L. Paper Co., Adams, Mass.
Carew Mfg. Co., South Hadley Falls, Mass.
Chapin & Gould Paper Co., Springfield, Mass.
**Chemical Paper Co., Holyoke, Mass.**
**Crane & Co., Dalton, Mass.**
**Crocker-McElwain Co., Holyoke, Mass.**
**District of Columbia Paper Mfg. Co., Washington, D. C.**
**East Hartford Mfg. Co., Burnside, Conn**
Eaton, Crane & Pike Co., Pittsfield, Mass.
Esleeck Mfg. Co. (Loft Dried), Turners Falls, Mass.
Everett Pulp & Paper Co., Everett, Wash.
**Fox River Paper Co., Appleton, Wis.**
**Gilbert Paper Co., Menasha, Wis.**
Glatfelter, P. H., Springfield, Pa.
Hampshire Paper Co., South Hadley Falls, Mass.
Hammermill Paper Co., Erie, Pa.
Howard Paper Co., Dayton, O.
**Kalamazoo Paper Co., Kalamazoo, Mich.**
**Keith Paper Co., Turners Falls, Mass.**
Lee Paper Co. (Loft Dried), Vicksburg, Mich.
Marathon Paper Mills Co., Wausau, Wis.
**Mittineague Paper Co., Mittineague, Mass.**
**Millers Falls Paper Co., Millers Falls, Mass.**
**Neenah Paper Co., Neenah, Wis.**
New York & Penna Co., 200 5th av, New York
Oglesby, W. B. Paper Co., Middletown, O.
**Parsons Paper Co., Holyoke, Mass.**
**Peninsular Paper Co., Ypsilanti, Mich.**
Plover Paper Co. (Loft Dried), Menasha, Wis.
Rising, B. D., Paper Co: ("Housatonic," "Barrington" & "Danish"), Housatonic, Mass.
Riverside Fibre & Paper Co., Appleton, Wis.
Southworth Co., Mittineague, Mass.
Taylor-Atkins Paper Co., Burnside, Conn.
Taylor-Burt Co., Holyoke, Mass.
Valley Paper Co., Holyoke, Mass.
Woronoco Paper Co., Woronoco, Mass.
Worthy Paper Co., Mittineague, Mass.
Wroe, W. E. & Co. (Construction Bond, Special Water Marks for the Trade), Michigan boul. & Peck Court, Chicago, Ill.

## 8165— Paper (Book)

Alexandria Paper Co., Alexandria, Ind.
American Writing Paper Co., Holyoke, Mass.
Amoskeag Paper Mills Co., Manchester, N. H.
Antietam Paper Co., Hagerstown, Md.
Arlington Paper Co., Salisbury Mills, N. Y.
Bardeen Paper Co., Otsego, Mich.
Bare, D. M. Paper Co., Roaring Spring, Pa.
Barnes Paper Co., Rochester, Mich.
Bergstrom Paper Co., Neenah, Wis.
Bryant Paper Co., Kalamazoo, Mich.
Bulkley, Dunton & Co., 75 Duane, New York
Champion Coated Paper Co., Hamilton, O.
Cleveland Paper Mfg. Co., Cleveland, O.
Consolidated Water Power & Paper Co., Grand Rapids, Wis.
Contoocook Valley Paper Co., West Henniker, N. H.
Crocker, Burbank & Co., Fitchburg, Mass.
Curtis & Bro. (Rag), Newark, Del.
Dill & Collins Co., 140 N 6th, Phila., Pa.
Elkhart Paper Mill Co., Elkhart, Ind.
Emerson Paper Co., Sunapee, N. H.
Everett Pulp & Paper Co., Everett, Wash.
Fitchburg Paper Co., Fitchburg, Mass.
Fox River Paper Co., Appleton, Wis.
French Paper Co., Niles, Mich.
Friend Paper Co., West Carrollton, O.
Garrett, C. S. & Son Co., 20 S Marshall, Phila., Pa.
Gilbert, Frank Paper Co., Waterford, N. Y.
Glatfelter, P. H. Co., Spring Forge, Pa.
Hamilton, W. C. & Sons, Wm. Penn P. O., Pa.
Harmon Paper Co., Brownville, N. Y.
Hartford Paper Co., Hartford, Conn.
**Holden Paper Co., Newburgh, N. Y.**
Jessup & Moore Paper Co., Phila., Pa.
Kalamazoo Paper Co., Kalamazoo, Mich.
Kenmore Pulp & Paper Co., 721 Chestnut, Phila., Pa.
Kimberly-Clark Co., Neenah, Wis.
King Paper Co., Kalamazoo, Mich.
McDowell Paper Mills, Manayunk, Phila., Pa.
Mead Pulp & Paper Co., Dayton, O.
Merrimac Paper Co., Lawrence, Mass.
Miamisburg Paper Co., Miamisburg, O.
Michigan Paper Co., Plainwell, Mich.
Mittineague Paper Co., Mittineague, Mass.
Monadnock Paper Mills, Boston, Mass.
Monarch Paper Co., Kalamazoo, Mich.
Moorhouse, R. T., Bridesburg, Phila., Pa.
Nashua River Paper Co., East Pepperell, Mass.
New York & Pennsylvania Co., 200 5th av, New York
Nixon, Martin & Wm. H. Paper Co., 229 Drexel bldg, Phila., Pa.
Oxford Paper Co., 200 Fifth av, New York
Patten Paper Co., Appleton, Wis.
Peninsular Paper Co., Ypsilanti, Mich.
Poland Paper Co., Mechanic Falls, Me.
Reading Paper Mills, Reading, Pa.
Richmond Paper Mfg. Co., Richmond, Va.
Taylor-Burt Co., Holyoke, Mass.
Ticonderoga Pulp & Paper Co., 200 Fifth av, New York
Tileston & Hollingsworth Co., Boston, Mass.
Tomahawk Pulp & Paper Co., Tomahawk, Wis.
Wanaque River Paper Co., 290 Broadway, New York
Waren, S. D. & Co., Boston, Mass.
Watab Pulp & Paper Co., Sartell, Minn.
West Virginia Pulp & Paper Co., 200 Fifth av, New York
Wheelwright, Geo. W. Paper Co., Boston, Mass.
Whiting, Geo. A., Menasha, Wis.

## 8166—Paper (Butchers' Manual)

Andrews, John T. & Co., Penn Yan, N. Y.
**Fleming, J. G. & Sons, Dallas, Tex.**
Fox Paper Co., Lockland, O.
Hartje Paper Mfg. Co., Pittsburg, Pa.
Humphrey & Young, Napanoch, N. Y.
Independent Paper Co., Independence, Kans.
Jefferson Paper Co. (Waterproof), Black River, N. Y.
Kieffer, John E. & Co., Brownstown, Ind.
Lawless Paper Co., Rochester, N. Y.
Marcellus Paper Co. (Waterproof), Syracuse, N. Y.
Roanoke Rapids Paper Mfg. Co., Roanoke Rapids, N. C.

## 8167— Paper (Carbon)

Able & Willing Mfg. Co., Merchants' bldg., Phila., Pa.
**Acme Carbon Paper Co., 52 B'way, New York**
Allen, John & Co., 480 Pearl, New York
American Manifolding Co., 235 B'way, New York
American Ribbon & Carbon Co. ("Eagle"), Rochester, N. Y.
Ault & Wiborg Co., Cincinnati, O.
Black Diamond Ribbon & Carbon Co. ("Black Diamond"), Rochester, N. Y.
**Buckeye Ribbon & Carbon Co., Cleveland, O.**
Buffalo Carbon Paper Co., Buffalo, N. Y.
Brecher, E. A. & Co. ("P-B", Brand), 88 Centre, New York
Carter's Ink Co. ("Ideal"), Cambridge, Mass.
Clarke & Zugala, 90 Gold, New York
Columbia Ribbon & Carbon Mfg. Co. ("Columbia"), 111 W B'way, New York
**Corona Supply Co. ("Corona" & "Iroquois"),** Rochester, N. Y.
Cooke, Douglas H., 18 Beaver, New York
Crown Ribbon & Carbon Mfg. Co. ("Crown", "Globe", "Pioneer"), Rochester, N. Y.
**De Fi Mfg. Co. ("De-Fi," "Solite"),** 150 Nassau, New York
Downes & Co. ("So-Klean"), 102 Fulton, New York

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**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**Foyer, Chas. A. & Co.** ("Foyer"), 1120 Prospect av, Cleveland, O.
**General Manifold Co., Franklin, Pa.**
**Heale, J. A. & Co.** ("H.-B."), 96 John, New
Indelibra Mfg. Co., Rochester, N. Y. York
International Carbon Paper Co. ("I. C. P. Co."), 241 Centre, New York
Keystone Carbon Paper Co. ("Keystone"), Franklin, Pa.
Kee Lox Mfg. Co. ("Kee Lox"), Syracuse, N. Y.
Kruse Printing Ink Co., 437 Pearl, New York
Little, A. P. ("Cobweb"), Rochester, N. Y.
**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)
Manifold Supplies Co., 188 3rd ave, Brooklyn, N. Y.
**Miller-Bryant-Pierce Co. ("Carnation"), Aurora, Ill.**
**Mittag & Volgar ("Eureka"), Park Ridge, N. J.**
**Neidich Process Co. ("Neidich"), Burlington, N. J.**
**Newark Ribbon & Carbon Mfg. Co. ("Non-Smut"), Newark, N. J.**
**Non-Smut Carbon Mfg. Co. ("Attorney," "Standard"), Rochester, N. Y.**
**Pen Carbon Manifold Co. ("Non-Flake Typewriter Carbon"), New Brunswick, N. J.**
**Republic Carbon & Ribbon Mfg. Co. ("Republic"), 46 W B'way, New York**
Republic-Dodge Mfg. Co. ("Du-Ra-Bul"), Pearl & Prospect, Brooklyn, N. Y.
Rogers Manifold & Carbon Paper Co. ("Rogers"), 346 B'way, New York
Rothschild, M. M., 417 Dearborn, Chicago, Ill.
Smith Paper Co., Lee, Mass.
**Snelling & Son, 225 34th, Brooklyn, N. Y.**

**SOLTMANN, E. G.**
(Papers & Carbons, Extra Large Size Sheets; also in Rolls for Duplicating Drawings & Manuscript), 134 W 29th, New York. (See adv. index, end of book)

Storms, H. M. Co. ("American," "Cameo"), 11 Vandewater, New York
Three B-B-B Co. ("B. B."), Detroit, Mich.
Underwood, Jno. & Co., 50 Vesey, New York
Union Ribbon & Carbon Co. ("Apex", "Summit", "Cyclo"), 9th & Thompson, Phila., Pa.
United States Typewriter Ribbon Mfg. Co. ("U. S."), 8th & Sansom, Phila., Pa.
Vacuo-Static Carbon Co., Rochester, N. Y.
Webster, F. S. & Co. ("Multe Kopy"), Boston, Mass.
**Whitfield Carbon Paper Works (Whitfield" Pen Carbon & Typewriter), 346 B'way, New York**

## 8168—Paper (Carbon Tissue)

Anchor Mills Paper Co., Windsor Locks, Conn.
Diamond Mills Paper Co., 44 Murray, New York
Franklin Paper Mills Co., Jersey City, N. J.
Gendey, Wm. H., Lambertville, N. J.
Smith Paper Co., Lee, Mass.

## 8169— Paper (Cartridge)

Cleveland-Akron Bag Co., Cleveland, O.
**Elkhart Bristol Board & Paper Co., Elkhart, Ind.**
**Everett Pulp & Paper Co., Everett, Wash.**
**Sorg, Paul A. Paper Co., Middletown, O.**

## 8170— Paper (Cash Register)

A. P. W. Paper Co. (In Rolls, Numbered or Plain), Albany, N. Y.

## 8171— Paper (Cloth Lined)

Le Fevre, Edward Y., Fallsburg, N. Y.

## 8171a—Paper (Coated for Blue Printing)

**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)

## 8172— Paper (Condenser)

Smith Paper Co., Lee, Mass.

## 8173—Paper (Copying & Manifold)

(See Railroad Stationery, Blanks, Manifestos; also Paper, Manifold; also Paper Railroad, Manifold; also Paper, Railroad, Copying)

## 8174— Paper (Corrugated)

Bicking, S. A., East Downingtown, Pa.
Fenton Fibre Box Co., North Tonawanda, N. Y.
Gair, Robert Co., Wash'n cor Plymouth, Brooklyn, N. Y.
Hinde & Dauch Paper Co. ("H. & D." Collapsible Corrugated Jute Board & Corrugated Packages, etc.), Sandusky, O.
**Illinois Corrugated Paper Co., Alton, Ill.**
Lawrence Paper Mfg. Co., Lawrence, Kan.
Mac-Sim Bar Paper Co. (Corrugated Carpet Linings, Bottle Wrappers, etc.), Otsego, Mich.
N. Y. Tube & Corrugated Paper Co. (Single & Double Face), 59 W 10th, New York
Park Novelty Co., Akron, O.
Phillips, Thos. Co., Akron, O.
Thompson & Norris Co. (Straw & Fibre Papers for Corrugating), c Prince & Concord, Brooklyn, N. Y.
Turner Bros. Co., Terra Haute, Ind.
**Warren & Childs Co., Medford, Mass.**

## 8175— Paper (Crepe)

Bainbridge's, Chas. T. Sons, 2 Cumberland, Brooklyn, N. Y.
Erving Mills, Erving, Mass.
Salisbury Mfg. Co., Providence, R. I.

## 8176— Paper (Detail)

**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)
**HEWITT, C. B. & BROS., 49 Beekman** New York. (See adv. index, end of book)
**Mittineague Paper Co. (For Architects & Engineers, etc.), Mittineague, Mass.**
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)

## 8177— Paper (Drawing)

American Writing Paper Co., Holyoke, Mass.
Bedford Pulp & Paper Co., Richmond, Va.
Bryant Paper Co., Kalamazoo, Mich.
Chemical Paper Co. (Manila), Holyoke, Mass.
Fox River Paper Co., Appleton, Wis.
Mason-Perkins Paper Co., Bristol, N. H.
Mittineague Paper Co., Mittineague, Mass.

## 8178—Paper (Drawing, Tracing & Detail)

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, of book)
**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)

**SOLTMANN, E. G.**
(Also everything for the Architect, Engineer & Draughting Room), 124 W 29th, New York. (See adv. index, end of book)

## Paper (Emery)

(See Paper, Flint, Sand & Emery)

**If You Are In Doubt**

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

**They Can Tell You**

## 8179— Paper (Filter)

Baker, J. T. Chemical Co. ("Baker's" Ashless), Phillipsburg, N. J.
Baker & Adamson Chemical Co. ("Ashless"), Easton, Pa.
Bausch & Lomb Optical Co., Rochester, N. Y.
Berge, J. & H. (German & Swedish Ashless), 95 John, New York
Eimer & Amend ("Schleicher & Schnell," "E. & A.," etc.), 18th & 3d av, New York
Heil, Henry Chemical Co. ("Max Deverhoff's), St. Lolis, Mo.
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
Sargent, E. H. & Co. ("J. H. Munktell's" Swedish), 143 Lake, Chicago, Ill.
Scientific Materials Co. (All Kinds), Pittsburg, Pa.
**Wrenn Paper Co., Middletown, O.**

## 8180—Paper (Flint, Sand & Emery)

American Glue Co. ("Union" Flint, etc.), Boston, Mass.
Armour Sand Paper Co. ("Bull's Head"), Chicago, Ill.
Baeder, Adamson & Co., Richmond & Allegheny avs, Phila., Pa.
Barton, H. H. & Son Co. (Inc.), 109 S 3d, Phila., Pa.
Behr, Herman & Co., 75 Beekman, New York
Carborundum Co., Niagara Falls, N. Y.
Minnesota Mining & Mfg. Co., St. Paul, Minn.
U. S. Sand Paper Co., Williamsport, Pa.
Wausau Sand Paper Co., Wausau, Wis.

## 8181— Paper (Fly)

**Grand Rapids Sticky Fly Paper Co., Grand Rapids, Mich.**
**I. X. L. Fly Paper Co., Rochester, N. Y.**
Massilon Paper Co., Massilon, O.
**Maumee Paper Co. (Porous), Maumee, O.**
Richardson Paper Co., Lockland, O.
**Thum, O. W. & Co. ("Tanglefoot"), Grand Rapids, Mich.**

## 8182—Paper for Carbon Manifolding

(See also Paper, Manifold)

Dexter, C. H. & Sons, Windsor Locks, Conn.

## 8183—Paper (Fourdrinier Tissue)

Babcock Tissue Paper Co., Otsego, Mich.
**Franklin Paper Mills Co., Swarthmore, Pa.**

## 8184— Paper (Garnet)

(See Paper, Flint, Sand & Emery)

## 8185— Paper (Glassene)

Hartford City Paper Co., Hartford City, Ind.
**Kern Commercial Co., 114 Liberty, New York**

## 8186—Paper (Grease Proof)

**Kern Commercial Co., 114 Liberty, New York**
**Valley Paper Co. (Parchment), Elkhart, Ind.**

## 8187— Paper (Impervious)

Impervious Paper Co., Scranton, Pa.

## 8188— Paper (Insulating)

(See also Mica)

American Insulating Material Mfg. Co. (Sawyer's "Polar Brand"), Alexandria, Ind.
American Mica Co. ("Puritan" Mica), Newton Lower Falls, Mass.
**AMERICAN VULCANIZED FIBRE CO.** Wilmington, Del. (See adv. index, end of book)
**Banner Rock Products Co., Alexandria, Ind.**
Barrett Mfg. Co. (Also Insulating Rope), 17 Battery pl, New York
Bird, F. W. & Son ("Kosat," "Neponset"), East Walpole, Mass.
**CABOT, SAMUEL ("Cabot"s" Quilt),** 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)
Carey, Philip Mfg. Co., Lockland, O.
Case Bros. (Boards, Any Size or Thickness), Highland Park, Conn.
Chatfield & Woods Co., Cincinnati, O.
**CONTINENTAL FIBRE CO. (Hard** Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
Crane Bros. ("Linenoid"), Westfield, Mass.

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**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
Dexter, C. H. & Sons (Tissue, etc.), Windsor Locks, Conn.
**DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)**
Fay Manilla Roofing Co., Camden, N. J.
Ford Mfg. Co., 2339 La Salle, Chicago, Ill.
Green Insulation Co. ("Q. A."), Cleveland, O.
**Hollingsworth & Vose Co. (All Grades for Insulating), Boston, Mass.**
**Hoosier Rock Wool Co., Alexandria, Ind.**
**JOHNS, H. W.-MANVILLE CO.** (Asbestos), 100 William, New York. (See adv. index & branch offices, end of book)
Kingsley Paper Co., Cleveland, O.
**Lincoln Waterproof Cloth Co., Boundbrook, N. J.**
**Massachusetts Chemical Co. ("Neponset"), Walpole, Mass.**
Merwin Paper Co. (Insulating Boards), Rainbow, Conn.
**MORRIS ELECTRIC CO. ("Fyberoid"), Wilmington, Del.**
**National Fibre & Insulation Co. (Fibre), Yorklyn, Del.**
National Metal Molding Co. (Paper for Insulating), Boonton, N. J.
**National Wax & Paper Mfg. Co., 199 Franklin, New York**
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
**Pittsburg Insulating Co., Pittsburg, Pa.**
Ramsey, E. R. Co. (Insulating Fibre), Penn Yan, N. Y.
**Rogers Paper Mfg. Co. (Insulating Boards), South Manchester, Conn.**
Single, Jno. Paper Co., Syracuse, N. Y.
**Standard Paint Co. ("P. & B.," "Giant"), 100 William, New York**
**Tarentum Paper Mills (Rope Paper for Insulating), Pittsburg, Pa.**
Trinidad Asphalt Paving Co., St. Louis, Mo.
**Union Fibre Co. (And Quilts, "Linofelt"), Winona, Minn.**
**Union Mills Paper Mfg. Co. (Manila Rope for Insulating), New Hope, Pa.**
**Van Dorn & Dutton Co., Cleveland, O.**
**WATSON, H. F. CO. (Asbestos &** Rope), Erie, Pa. (See adv. index & branch offices, end of book)
**Whittelsey, F. H. Co. (Tissue, etc.), Windsor Locks, Conn.**
**WILMINGTON FIBRE SPECIALTY Co. ("Fyberoid"), Wilmington, Del. (See adv. index & branch offices, end of book)**
York Haven Paper Co. (Insulating Paper), 11 B'way, New York

## 8189— Paper (Lace)

U. S. Lace Paper Works, 182 Brand, Brooklyn, N. Y.

## 8190—Paper (Linen Ledger)

Beckett Paper Co., Hamilton, O.
Crane Bros. ("Gold Medal," "Japanese Linen" & All Linen Writing, etc.), Westfield, Mass.
Weston, Byron Co. ("Weston"), Dalton, Mass.

## 8191— Paper (Manifold)

(See also Paper, Railroad Manifolding; also Railroad Stationery, Blanks, Manifests, etc.)
Anchor Mills Paper Co., Windsor Locks, Conn.
**Dexter, C. H. & Sons (Linen, etc.), Windsor Locks, Conn.**
**Esleeck Mfg. Co., Turners Falls, Mass.**
Hartford City Paper Co., Hartford City, Ind.
McDowell Paper Mills, Manayunk, Phila., Pa.
**Mann, Wm. Co., Lambertville, N. J.**
Whittelsey, F. H. Co., Windsor Locks, Conn.

## 8192— Paper (Manila)

Adams Bag Co., Cleveland, O.
Adams Paper Co., Wells River, Vt.
Analomink Paper Co., North Water Gap, Pa.
Ballston Pulp & Paper Co., Ballston Spa, N. Y.
Bedford Pulp & Paper Co., Richmond, Va.
Blake & Higgins, Bellows Falls, Vt.
California Paper & Board Mills, San Francisco.
Case Mfg. Co., Unionville, Conn. Cal.
Central Paper Co., Muskegon, Mich.
Cherry River Paper Co., Land Title bldg, Phila., Pa.
Claremont Paper Co., Claremont, N. H.
Cleveland-Akron Bag Co., Cleveland, O.
Crown-Columbia Pulp & Paper Co., San Fran-
Cushnoc Paper Co., Augusta, Me. cisco, Cal.
DeGrasse Paper Co., Carthage, N. Y.
Dells Paper & Pulp Co., Eau Claire, Wis.
Eureka Paper Co., Fulton, N. Y.
Everett Pulp & Paper Co., Everett, Wash.
E-Z Opener Bag Co., Taylorville, Ill.
Falls Mfg. Co., Oconto Falls, Wis.
Fletcher Paper Co., Alpena, Mich.
Flint, Wyman & Sons Co., Bellows Falls, Vt.
Floriston Pulp & Paper Co., San Francisco, Cal.
Fox Paper Co., Lockland, O.
Gore, H. M., Freeland, Md.
Gould Paper Co., Lyons Falls, N. Y.
Granby Pulp & Paper Co. (Light Weight), Fulton, N. Y.
Great Northern Paper Co., 51 Wall, New York
Harmon Paper Co., Brownville, N. Y.
Hartje Paper Mfg. Co., Pittsburg, Pa.
Hawley Pulp & Paper Co. (All Grades), Oregon
Henry Paper Co., Lincoln, N. H. City, Ore.
Hennepin Paper Co., Minneapolis, Minn.
Hollingsworth & Whitney Co., Boston, Mass.
Howland Pulp & Paper Co., Howland, Me.
Impervious Paper Co., Scranton, Pa.
International Paper Co., 30 Broad, New York
Island Paper Co., Carthage, N. Y.
Jefferson Paper Co., Black River, N. Y.
Kieffer, John E. & Co. (No. 2), Ewing, Ind.
Kimberly-Clark Co., Neenah, Wis.
Knowlton, F. D. (No. 2), Dansville, N. Y.
Kooms, J. R. & Son, Huntington Mills, Pa.
Lake Champlain Pulp & Paper Co., Plattsburg,
Lawless Paper Co., Rochester, N. Y. N. Y.
Lebanon Paper Co., San Francisco, Cal.
LeFevre, Edw. Y., Fallsburg, N. Y.
LeRay Paper Co. (Heavy), Carthage, N. Y.
Lincoln, L. & Co., North Dighton, Mass.
Marathon Paper Mills Co., Wausau, Wis.
Marinette & Menominee Paper Co., Marinette, Wis.
Marshall, T. S. & Son (No. 2), Yorklyn, Del.
McArthur Bros., Danbury, Conn.
Menasha Paper Co., Menasha, Wis.
Moore & Thompson Paper Co. (Inc.), Bellows Falls, Vt.
Moore, John T. & Son, Bellows Falls, Vt.
Moorhouse, R. T., Bridesburg, Phila., Pa.
Moyer & Pratt, Lyonsdale, N. Y.
Nekoosa-Edwards Paper Co., Nekoosa, Wis.
Newton Falls Paper Co. (Sulphite), Watertown, N. Y.
New York & Pennsylvania Co., 200 5th av, New
Northwest Paper Co., Cloquet, Minn. York
Odell Mfg. Co., Groveton, N. H.
Onondaga Paper Co., Marcellus Falls, N. Y.
Orono Pulp & Paper Co., Bangor, Me.
Pioneer Paper Co., Ballston Spa, N. Y.
Raquette River Paper Co., Pottsdam, N. Y.
Reading Paper Mills, Reading, Pa.
Rogers, J. & J. Co., Ausable Forks, N. Y.
Schmidt & Ault Paper Co., York, Pa.
Thorne Paper Co., Hart Lot, N. Y.
Union Bag & Paper Co., 17 Battery pl, New York
Wardlow-Thomas Paper Co., Middletown, O.
Wausau Paper Mills Co., Brokaw, Wis.
West Dudley Paper Co., West Dudley, Mass.
Wolf River Paper & Fibre Co., Shawono, Wis.
Yellow Pine Paper Mill Co. (No. 1), Orange, Tex.

## 8193— Paper Napkins

Bainbridge's, Chas. T. Sons, 2 Cumberland, Brooklyn, N. Y.
**Dennison Mfg. Co., 15 John, New York**
Erving Mills, Erving, Mass.
**Hoberg, Jno. Co., Green Bay, Wis.**

## 8194— Paper (Parchment)

Bergstrom Paper Co., Neenah, Wis.
Crane & Co., Dalton, Mass.
**East Hartford Mfg. Co., Burnside, Conn.**
Glen Mills Paper Co. (Vegetable), Stephen Girard bldg, Phila., Pa.
**Hartford City Paper Co., Hartford, City, Ind.**
**Hollingsworth & Whitney Co., Boston, Mass.**
Newark Paraffine & Parchment Paper Co., 90 West, New York
New York & Penna Co., 200 5th av, New York
Paterson Parchmont Paper Co. (Vegetable), Passaic, N. J.
**Schmidt & Ault Paper Co., York, Pa.**
Union Waxed & Parchment Paper Co., Hamburg, N. J.
**West Carrollton Parchment Co. (Vegetable), West Carrollton, O.**
**Whiting, Geo. A., Menasha, Wis.**

## 8195— Paper (Photographic)

American Photographic Paper Co., Boston, Mass.
Artex Photo Paper Co., Columbus, O.
Haloid Co., Rochester, N. Y.
**Mittineague Paper Co., Mittineague, Mass.**
**Valley Paper Co., Holyoke, Mass.**

## 8196—Paper (Railroad Copying)

Anchor Mills Paper Co., Windsor Locks, Conn.
**Mann, Wm. Co., Lambertville, N. J.**
**Vernon, Richard R., Rainbow, Conn.**
Whittelsey, F. H. & Co., Windsor Locks, Conn.

## 8197—Paper (Railroad Manifolding)

**Reyburn Mfg. Co., 22nd & Allegheny av, Philadelphia, Pa.**
Whittlesey, F. H. Co., Windsor Locks, Conn.

## 8198—Paper (Railroad Manila & Writing)

(See also Paper, Writing)
**Arlington Paper Co., Salisbury, N. Y.**
Bardeen Paper Co., Otsego, Mich.
Bergstrom Paper Co., Neenan, Wis.
Brownsville Paper Co., Brownsville, N. Y.
**Consolidated Water Power & Paper Co., Grand Rapids, Mich.**
Everett Pulp & Paper Co., Everett, Wash.
**Hollingsworth & Whitney Co., Boston, Mass.**
**Kimberly-Clark Co., Neenah, Wis.**
Moore & Thompson Paper Co., Bellow Falls, Vt.
New York & Penna. Co., 200 5th av, New York
**Rising, B. D. Paper Co. ("Housatonic," "Barrington" & "Danish" Bond), Housatonic, Mass.**
**Riverton Paper Co., Riverton, Conn.**
Robertson Paper Co., Bellows Falls, Vt.

## 8199—Paper (Roofing, Saturators)

**(See also Paper, Roofing, Sheathing & Building)**
**Acme Asphalt Roofing Mfg. Co., Jersey City, N. J.**
**American Insulating Material Mfg. Co., Alexandria, Ind.**
Armitage Mfg. Co., Richmond, Va.
**Asphalt Roofing Co., Saginaw, Mich.**
**Barrett Mfg. Co., 17 Battery pl, New York**
**Barber Asphalt & Paving Co., Land Title bldg., Phila., Pa.**
**Bird, F. W. & Co., East Walpole, Mass.**
**Chatfield & Woods Co., Cincinnati, O.**
Denver Gas & Electric Co., Denver, Colo.
**Flintkote Mfg. Co., Rutherford, N. J.**
**Ford Mfg. Co., 2339 La Salle, Chicago, Ill.**
**General Roofing Mfg. Co., East St. Louis, Ill.**
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
**Lehon Co., W 43d & Lincoln av, Chicago, Ill.**
**Lincoln Waterproof Cloth Co., Boundbrook, N. J.**
**National Roofing Co., Tonawanda, N. Y.**
**New England Felt Roofing Works, Boston, Mass.**
**Newton Paper Co., Holyoke, Mass.**
**Pacific Refining & Roofing Co., San Francisco, Cal.**
**Paraffine Paint Co., San Francisco, Cal.**
**Standard Paint Co., 100 William, New York**
**Stowell, W. H., Co., Jersey City, N. J.**
**Union Roofing & Mfg. Co., St. Paul, Minn.**
**Vulcanite Roofing Co., Franklin, O.**
**Western Roofing & Supply Co., 2357 La Salle, Chicago, Ill.**
**White, A. H., Co., Ltd., New Orleans, La.**
**Wright, Barrett & Stilwell Co., St. Paul, Minn.**


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as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

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## 8200—Paper (Roofing, Sheathing & Building) Mfrs.

(See also Paper, Roofing Saturators)

(To learn what firms in this list manufacture read printed matter following their names)

Amafibre Mills So. ("Amafibre" Building), Detroit, Mich.
American Straw Board Co. (Building), Chicago, Ill.
Andrews, Jno. T. & Co. (Sheathing), Penn Yan, N. Y.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
Barrett Mfg. Co. (Roofing Felt), 17 Battery pl, New York
Beloit Box Board Co. (Roofing & Building), Beloit, Wis.
Berlin Mills Co. ("Nibrac Kraft"), Portland, Me.
Bermingham & Seaman Co. (Roofing), 143 Dearborn, Chicago, Ill.
Bicking, S. Austin (Rosin-Sized Sheathing), East Downingtown, Pa.
Bird, F. W. & Son ("Neponset"), (Roofing, also Sheathing & Building), East Walpole, Mass.
Bowen, E. (Roofing, Building, Tarred Roofing & Slaters' Felt), Lockland, O.
**CABOT, SAMUEL ("Cabot's" Sheathing & Deadening Quilt), 141 Milk, Boston, Mass.** (See adv. index & branch offices, end of book)
California Paper & Board Co. (Roofing & Deadening Felts, also Sheathing), San Francisco, Cal.
Chatfield Paper Co. (Roofing & Building), New Haven, Conn.
Chatfield & Woods Co. (Building), Cincinnati, Ohio
Coons, Fred M. (Deadening Felts), Rockton, Ill.
Crown-Columbia Pulp & Paper Co. (Sheathing), San Francisco, Cal.
Cullen, L. C. (Deadening Felts & Building), Cheyney, Pa.
Diem & Wing Paper Co. (Roofing & Sheathing), Cincinnati, O.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
Fay Manilla Roofing Co. (Roofing & Sheathing), Camden, N. J.
Fleming, Jno. G. & Sons (Roofing & Sheathing), Dallas, Tex.
Foster Box Board Co. (Roofing), Utica, N. Y.
Fox Paper Co. (Building), Lockland, O.
General Roofing Mfg. Co. (Building, Ready Roofing, Saturating & Deadening Felts), East St. Louis, Ill., & Chicago, Ill.
Georgia Mfg. & Public Service Co. (Sheathing), Marietta, Ga.
Graham Paper Co. (Building, Water Proof, Asbestos, etc., Jobbers), St. Louis, Mo.
Hartje Paper Mfg. Co. (Rosin-Sized Sheathing & Building), Pittsburg, Pa.
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
Hollingsworth & Vose Co. (Red Rope Roofing), Boston, Mass.
Hollywell Paper Mills (Dry Roofing, also Building), Chambersburg, Pa.
International Egg Carrier & Paper Co. (Building), Newark, N. J.
Kennesaw Paper Co. (Sheathing), Marietta, Ga.
King & Largey Paper Co. (Building), Manhattan, Mont.
Kingston's, Wm. Sons (Saturating & Deadening Felts, Roofing & Building), Little Falls, N. Y.
Janowski, Morris (Builders' Board), Aldam, Pa.
Laflan Paper Co. (Sheathing), York, Pa.
Lang, Jno. Paper Co. (Roofing & Saturating & Deadening Felts), 24th & Vine, Phila., Pa.
Lewis, F. J. Mfg. Co., 2513 S Robley, Chicago, Ill.
Lincoln, L. & Co. (Sheathing), North Dighton, Mass.
Lockport Paper Co. (Roofing, also Sheathing & Deadening), Lockport, N. Y.
Los Angeles Paper Mfg. Co. (Sheathing & Saturating & Deadening Felts), Los Angeles, Cal.
Lydall & Foulds Paper Co., Manchester, Conn.
Mac-Sim-Bar Paper Co. (Saturating, Roofing & Building), Otsego, Mich.
Mitchell & Son (Sheathing), Palmyra, Mich.
Mullen Bros. Paper Co. (Building), St. Joseph, Mich.
Munroe Falls Paper Co. (Roofing & Deadening Felts), Massillon, O.
Munroe Felt & Paper Co. (Roofing), Boston, Mass.
Nelson Paper Co. (Roofing, also Building), Minneapolis, Minn.
Newton Paper Co. (Sheathing & Deadening Felts), San Francisco, Cal.
Paraffine Paint Co. (Sheathing & Saturating & Deadening Felts), Holyoke, Mass.
Parker, H. A. & Co. (Sheathing), East Peperell, Mass.
Peters Paper Co. (Roofing & Sheathing), Latrobe, Pa.
Rankin, W. H. Co. (Roofing & Building), Elizabeth, N. J.
Richardson Paper Co. (Roofing), Lockland, Ohio
Roberts, Jno. & Sons Co. (Asbestos, Sheathing, etc.), Waltham, Mass.
Schmidt & Ault Paper Co. (Sheathing), York, Pa.
Snider Paper Co. (Roofing & Felt), Dayton, Ohio
Susquehanna Roofing Mfg. Co. (Roofing, Rosin-Sized Sheathing and Deadening Felts), Cly, Pa.
Union Mills Paper Mfg. Co. (Building), New Hope, Pa.
Union Paper & Twine Co., Cleveland, O.
Union Paper & Twine Co. (of Michigan), Detroit, Mich.
Union Roofing & Mfg. Co. (Roofing), St. Paul, Minn.
United Roofing & Mfg. Co., West End Trust bldg, Phila., Pa.
Wall, J. C. (Sheathing, Roofing & Waterproof Building), Walpole, Mass.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)
West, W. T. & Co. (Roofing), Rowlandsville, Md.
West Side Paper Co. (Roofing), 30th & Spruce, Phila., Pa.
York Haven Paper Co. (Roofing & Waterproof Building; also Prepared Roofing Paper), 11 B'way, New York. Mills, York Haven, Pa.
Young, D. & J. B., Bently Springs, Md.

## 8201— Paper (Rope)

Adams Bag Co., Cleveland, O.
American Writing Paper Co., Holyoke, Mass.
Bicking Paper Co., 517 Ludlow, Phila., Pa.
Case Mfg. Co., Unionville, Conn.
Case & Marshall, Hartford, Conn.
Cleveland-Akron Bag Co., Cleveland, O.
Detroit Sulphite Pulp & Paper Co., Detroit, Mich.
Dilworth Paper Co., Pittsburg, Pa.
Eureka Paper Co., Fulton, N. Y.
Frost & Sons Paper Co., Napanoch, N. Y.
George & Sherrard Paper Co., Wellsburg, W. Va.
Globe Paper Co. (Also Fibre & Kraft Papers), 2147 S Jefferson, Chicago, Ill.
Harvey Paper Co., Wellsburg, W. Va.
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
Hollingsworth & Vose Co., Boston, Mass.
Jaite Co., Boston, O.
**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)
Manning, John A. Paper Co., Troy, N. Y.
Marseilles Wrapping Paper Co., Marseilles, Ill.
Newton Paper Co., Holyoke, Mass.
Phillips, Thos. Co. (Pure Rope Papers & Colored Rope Specialties), Akron, O.
Pleasant Mills Paper Co., 610 Chestnut, Phila.,
Reading Paper Co., Reading, Pa. Pa.
Sorg, Paul A. Paper Co., Middletown, O.
Taggart Bros. Co., Watertown, N. Y.
Tarentum Paper Mills, Pittsburg, Pa.
Union Mills Paper Mfg. Co. (Pure Rope Papers & Colored Rope Specialties), New Hope, Pa.
Victoria Paper Mills Co., Fulton, N. Y.
Wardlow-Thomas Paper Co., Middletown, O.
Warren Mfg. Co., 41 Park row, New York
Wayne Paper Mills, Hartford City, Ind.
West Jersey Paper Mfg. Co., Camden, N. J.

## 8202— Paper (Screening)

Berlin Mills Co., Portland, Me.
Estes, Herbert, Ausable Chasm, N. Y.
Hoboken Paper Mills Co., Hoboken, N. J.
LeRay Paper Co., Carthage, N. Y.
Marcellus Paper Co., Marcellus Falls, N. Y.
Onondaga Paper Co., Marcellus Falls, N. Y.
Parsons Pulp & Paper Co., Franklin Bank bldg, Phila., Pa.

## 8203— Paper (Stencil)

**HEWITT, C. B. & BROS., 49 Beek**man, New York. (See adv. index, end of book)

## 8204— Paper (Toilet)

A. P. W. Paper Co. (Roll & Package), Albany, N. Y.
Adams Paper Co. (Edwin Crabtree & Sons, Propt.), Wells River, Vt.
Ancram Paper Mills, 201 Wooster, New York
Ashuelot Paper Co. (Tissue), Hinsdale, N. H.
Carrier, L. J. Mfg. Co., Phoenix, N. Y.
Carthage Tissue Paper Mills (Tissue), Carthage, N. Y.
Cole, W. A. Paper Co. (Tissue), Putney, Vt.
Continental Paper Bag Co. (Roll Toilet Tisue), 17 Battery pl, New York
Cornell & Ward, 160 Franklin, New York
Deutsch Bros., 319 Greenwich, New York
Fish Paper Co. (Tissue), Hinsdale, N. H.
Fitz Gibbon Paper Co. (Tissue), Chauncey, N. Y.
Fulton Toilet Paper Co., Fulton, N. Y.
Gardner, L. H. Paper Co. (Tissue), Mumford
Haniford Paper Co., Boston, Mass. N. Y.
Hoberg, Jno. Co. (Roll & Package Tissue), Green Bay, Wis.
Jerome Co., 570 7th av, New York
Johnson, Geo. T. & Co., Boston, Mass.
Morgan Envelope Co., Springfield, Mass.
Northern Paper Mills (Tissue, Automatic Toilet Service, "Northern," Roll & Oval), Green Bay, Wis.
Oswego River Paper Mills (Package & Roll), Phoenix, N. Y.
Peerless Mfg. Co., 2324 Market, Phila., Pa.
Peerless Paper Co. (Toilet Tissues), Troy, N. Y.
Pelley Toilet Paper Co., Fulton, N. Y.
Phoenix Paper Co. ("Jumbo," Rolls, Tissue), Greenwich, N. Y.
Phoenix Toilet & Paper Mfg. Co. (Tissue), Phoenix, N. Y.
Progressive Supply Co., 116 Broad, New York
Robertson Bros. (Tissue, Rolls & Sheets), Hinsdale, N. H.
Sanquoit Toilet Paper Mfg. Co., New Hartford, N. Y.
Scott Paper Co., 7th & Glenwood av, Phila., Pa.
Utica Paper Mills Co., Sauquoit, N. Y.
Weston Paper & Mfg. Co. ("Tiger"), Dayton, O.
Wortendyke Mfg. Co., Richmond, Va.


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## 8205– Paper (Train Order)

**Whittlesey Paper Co., Windsor Locks, Conn.**

## 8206– Paper (Typewriter)

(See also Paper, Writing, Manufacturers)

**American Writing Paper Co., Holyoke, Mass.**
Carew Mfg. Co., South Hadley, Mass.
Dexter, C. H. & Sons, Windsor Locks, Conn.
Diamond Mills Paper Co., 44 Murray, New York
Eaton, Crane & Pike Co. ("Crane", "Berkshire"), Pittsfield, Mass.
Eaton-Hulburt Paper Co., Pittsfield, Mass.
Esleeck Mfg. Co., Turners Falls, Mass.
Fox River Paper Co., Appleton, Wis.
Hampshire Paper Co. ("Old Hampshire Bond"), So. Hadley Malls, Mass.
Mittineague Paper Co., Mittineague, Mass.
Smith Paper Co., Lee, Mass.
Whittesley, F. H. Co., Windsor Locks, Conn.
Woronoco Paper Co., Woronoco, Mass.

## 8207–Paper (Water Proof)

Carey, Philip Mfg. Co., Lockland, O.
**WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)**

## 8208–Paper (Waxed or Paraffine)

Babcock Tissue Paper Co. (Plain or Printed), Otsego, Mich.
Dayton Paper Novelty Co., Dayton, O.
Diem & Wing Paper Co., Cincinnati, O.
**Hammerschlag Mfg. Co., Garfield, N. J.**
Hollingsworth & Whitney Co., Boston, Mass.
Nashua Gummed & Coated Paper Co., Nashua, N. Y.
Newark Paraffine & Parchment Paper Co., 90 West, New York
Paraffin Paper Co., Otsego, Mich.
Raubsville Paper Mills Co., Raubsville, Pa.
**Sterling Waxed Paper Mfg. Co., Newark, N. J.**
Union Waxed & Parchment Paper Co., Hamburg, N. J.
Waterproof Paper & Board Co., Cincinnati, O.

## 8209– Paper (Wrapping)

Angier Mills (Waterproof Cloth Lined), Quincy, Mass.
**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
Marseilles Wrapping Paper Co., Marseilles, Ill.
Niles Board & Paper Co., Niles, Mich.
Union Paper & Twine Co., Cleveland, O.
Union Paper & Twine Co. (of Michigan), Detroit, Mich.
Walton, D. S. & Co. ("Swedish Kraft"), Franklin & Varick, New York

## 8210–Paper (Wrapping, in Rolls)

**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)
New York Roll Wrapping Paper Co. ("Hopking," "Simplex"), 84 Beekman, New York
Phillips, Thos. Co., Akron, O.

## 8211– Paper (Writing)

(See also Paper, Railroad Manila & Writing)

Arlington Paper Co., Salisbury Mills, N. Y.
American Writing Paper Co., Holyoke, Mass.
Beckett Paper Co., Hamilton, O.
Bryant Paper Co., Kalamazoo, Mich.
Carew Mfg. Co., South Hadley Falls, Mass.
Chapin & Gould Paper Co., Springfield, Mass.
Chemical Paper Co., Holyoke, Mass.
Collins Mfg. Co., No. Wilbraham, Mass.
Columbian Paper Co., Buena Vista, Va.
Crane Bros., Westfield, Mass.
Crane, Z. & W. M., Dalton, Mass.
Crane & Co., Dalton, Mass.
Crocker, Burbank & Co., Fitchburg, Mass.
Crocker-McElwain Co., Holyoke, Mass.
Curtis & Bro., Newark, Del.
Cushnoc Paper Co., Augusta Me.
Eastern Mfg. Co., Bangor, Me.
Fast Hartford Mfg. Co., Burnside, Conn.
Eaton, Crane & Pike Co., Pittsfield, Mass.
Everett Pulp & Paper Co., Everett, Wash.
Fox River Paper Co., Appleton, Wis.
Friend Paper Co., West Carrollton, Ohio
Gilbert Paper Co., Menasha, Wis.
Glatfelter, P. H. Co., Spring Forge, Pa.
Hamilton, W. C. & Sons, William Penn P.O., Pa.
Hammermill Paper Co., Erie, Pa.
Keith Paper Co., Turners Falls, Mass.
Kalamazoo Paper Co., Kalamazoo, Mich.
Kenmore Pulp & Paper Co., Phila., Pa.
Kimberly-Clark Co., Neenah, Wis.
King Paper Co., Kalamazoo, Mich.
Lee Paper Co., Vicksburg, Mich.
Mead Pulp & Paper Co., Dayton, Ohio.
Merrimac Paper Co., Lawrence, Mass.
Nashua River Paper Co., Pepperell, Mass.
N. Y. & Pennsylvania Co., 200 5th av, New York
Oglesby Paper Co., Middletown, Ohio
Old Berkshire Mills Co., Dalton, Mass.
Peninsular Paper Co., Ypsilanti, Mich.
Plover Paper Co., Menasha, Wis.
Poland Paper Co., Mechanic Falls, Me.
Taylor-Atkins Paper Co., Burnside, Conn.
Ticonderoga Pulp & Paper Co., 200 5th av, New York
Walker, J. H., 261 B'way, New York. Mills, Burnside, Conn.
West Virginia Pulp & Paper Co., 200 5th av, New York. Mills, Davis, W. Va.
Weston, Byron, Co., Dalton, Mass.
Whiting, George A., Menasha, Wis.
Whiting Paper Co., Holyoke, Mass.

## 8212– Paper & Pulp Mills

(Star (*) Indicates Wood Pulp Mills)

(If the Main Office is not located at the Mill, the location of same follows after their Name)

### CALIFORNIA.

ANTIOCH — California Paper & Board Mills (Straw Board, Deadening Felts, Tag Board, etc.), Office: San Francisco, Cal.
FLORISTON — *Floriston Pulp & Paper Co. (Manila, News, Tissue & Express), Office: San Francisco, Cal.
LOS ANGELES—Los Angeles Paper Mfg. Co (Box Board, Sheathing, Deadening Felts & Wrapping)
SAN FRANCISCO—California Paper & Board Mills (Straw Board, Deadening Felts, Tag Board). Mills: Antioch, Cal.
*Crown-Columbia Pulp & Paper Co. (Manila, News, Sheathing, Hanging, Flaxing, Express, Bag, Fruit, Paraffine & Wrapping; also Ground Wood & Sulphite Fibre). Mills, Oregon City, Ore
*Floriston Pulp & Paper Co. (Manila, News, Tissue, Express, etc.). Mills, Floriston, Cal
*Lebanon Paper Co. (Straw Wrapping, Fibre & Manila; also Sulphite Fibre). Mills, Lebanon, Oregon
Paraffine Paint Co. (Deadening & Saturating Felts & Sheathing)
*Willamette Pulp & Paper Co. (News & Ground Wood & Sulphite Fibre). Mills, Oregon City, Oregon

### CONNECTICUT.

ANDOVER—Case, Fred L. Paper Co. (Leather Board & Specialties)
BOZRAHVILLE — Yantic River Paper Mills (Manila Tissue)
BRIDGEPORT—Tait & Sons Paper Co. (Box Board)
BURNSIDE—Case & Marshall (Rope, Board, Waterproof Papers, etc.)
East Hartford Mfg. Co. (Bonds, Linens, Parchment, Folding, Writing, etc.)
Taylor-Atkins Paper Co. (Bonds, Linens, Vellums & Writing)
Walker, J. H. (Book, Envelope & Writing), Office: New York City
COMSTOCKS BRIDGE — Brown, Howard C. (Card Middles & Coating)
DANBURY — McArthur Bros. (Manila, Hardware & Wrapping)
GLASTONBURY — Naubuc Paper Co. (Box, Cloth, Button, Leather, Mill, Trunk & Wrapping Boards)
Riverside Paper Mfg. Co. (Binders Board, etc.)
HARTFORD — Hartford Board Co. (Binders Leather & Straw Board)
Hartford Paper Co. (Book, Cologne, French Folio & Colored Papers). Mills, Poyuonock, Conn.
HIGHLAND PARK—Case Bros. (Inc.) (Press Board, Jacquard Cards, Insulating Board, etc.)
HOP RIVER — Case Leather Works (Hideite Leather Boards & Specialties)
MANCHESTER—American Writing Paper Co. (Writing, Specialties in Paper, Fine Book, Cover & Plate Papers), Office: Holyoke, Mass.
Case, A. Willard Co. (Imitation Press & Decorated Boards & Cover Papers. Poster & Mat Boards & Specialties)
Foulds, Wm. & Co. (Inc.) (Button, Straw, Binders & Leather Board)
Lydall & Foulds Paper Co. (Chipped, Plain & Mill Lined Straw Board)
MONTVILLE—Robertson, C. M. Co. (Folding Box Boards, Wrapping & Paper Box Boards)
NEW HAVEN—National Folding Box & Paper Co. (Manila, Board, Single & Double Lined Chip Box Board). Mills: Ballston Spa, N. Y.
New Haven Pulp & Board Co. (Manila & White Folding Box Boards)
Parker, Jos. & Son Co. (Blotting)
NEWINGTON — Newington Paper Co. (Binders & Leather Board)
NORTH WESTCHESTER — Norton, C. H. (Binders, Box, Shoe & Trunk Board)
NORWALK—*St. George Pulp & Paper Co. (News & Hanging, also Ground Wood), Office: Sandy Hill, N. Y.
NORWICH — Hubbard, A. H. Co. (Super-Calenders & Colored Cover), Mills: Greenville, Conn.
ONECO—Case-Risley Press Paper Co. (Rag Press Papers in All Colors & Hand Finished Boards)
POQUONOCK — Hartford Paper Co. (Book, Catalogue, French Folio & Colored Papers), Office: Hartford, Conn.
RAINBOW—Hartford Paper Co. (Book & Colored), Office: Hartford, Conn.
Merwin Paper Co. (Insulating, Press & Shield Boards)
Rainbow Mills (Richard R. Vernon, Prop.) (R. R., Impression Paper, Tissue & Copying)
RIVERTON—Riverton Paper Co. (Yellow Railroad Copying & Oil Tissue)
SEYMOUR—Beach, S. Y. Paper Co. (Colored Specialties)
SHELTON—United Box Board & Paper Co. (Manila Boards & Paper Specialties), Office: New York City
SOUTH COVENTRY—Nichols, N. J. Paper Co. (Binders & Leather Prints)
SOUTHFORD—Diamond Match Co. (Binders' Straw, Album & Leather Board). Office: Chicago, Ill.
SOUTH GLASTONBURY — Wasuc Mills Co. (Binders, Straw, Album & Leather Board & Specialties)
SOUTH MANCHESTER—Brookside Paper Co. (Binders, Album, Straw & Trunk Board)
Rogers Paper Mfg. Co. (Press, Insulating, Jacquard, Shield & Leather Boards)
TALCOTTVILLE—Brown, John C. (Binders Board)
UNIONVILLE — American Writing Paper Co. (Writing, Coupon Bond), Office: Holyoke, Mass.
Case Mfg. Co. (Colored, Hardware, Manila, Pattern & Rope)
VERSAILLES — Eastern Straw Board Co. (Straw Board, Folding, Box Board & Building)
WESTPORT — Westport Paper Co. (Binders, Leather, Trunk & Box Board)
WINDSOR LOCKS—American Writing Paper Co. (Boards & Manilas, Rope & Jute Manilas), Office: Holyoke, Mass.
Anchor Mills Paper Co. (White, Colored & Manila Tissues, Pattern, Toilet & Anti-Tarnish, White Shoe, French Folio, Stereotype, Manifold & Blue Seidlitz, Grass-Bleached Silver, Yellow, White & Manila R. R. Copying)
Dexter, C. H. & Sons (Cover Papers, Tissues & Specialties, "Star" Manifold Linen Typewriter, "Star" Grass-Bleached Silver Tissues, White & Colored Tissues, Copying, Bristols)
Whittelsey, F. H. Co. (Yellow Way Bill, Manila, White & Parchment Copying, White & Colored Tissue, Manifold, Grass-Bleached, Typewriter, Anti-Tarnished, Oiled Tissue & Boards & Train Orders, etc.)

### DELAWARE.

NEWARK — Curtis & Bro. (Rag Book, Envelope, Specialties & Writings)
WILMINGTON — Delaware Hard Fibre Co. (Rag Specialties & Fibre Boards, etc.), Mills: Marshallton, Del.
**du PONT, E. I., de NEMOURS** Powder Co. (Ground Wood Floor Mills), Newhall, Me. (See adv. index, end of book)
*Jessup & Moore Paper Co. (Book, Paper & Soda Fibre), Office: Phila., Pa.
WOODDALE — Marshall & Mitchell (Special Paper for Making Vulcanized Fibre for Electrical & Mechanical Purposes)
YORKLYN—Marshall Bros. (Rag Papers for Vulcanized Fibre & Rag Specialties)
Marshall, T. S. & Sons (No. 2 Manila)

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## DISTRICT OF COLUMBIA.

WASHINGTON — District of Columbia Paper Mfg. Co. (Finish Bond, Blotting, Embossed Flora Blottings, Cover, Matrix & Specialties)

## GEORGIA.

MARIETTA—Kennesaw Paper Co. (News, Manila, Bag, Gray Rag, Lined Board, Plain & Lined Chip Board, News Board, Sheathing, Carpet Lining & Water Finish Fibre)

## ILLINOIS.

CARLYLE—Carlyle Paper Co. (Straw Wrapping, Carpet, Building & Deadening Felts)

CHICAGO—American Straw Board Co. (Straw Board, Mill Lined; Egg Case Board & Building Board, Chip Paper Stock, News, Combination Board), 6 Sherman
Chicago Coated Board Co. (Paper Box Boards, Plain, Mill Lined, & Sheet Lined), 420 E Water
Diamond Match Co. (Binders, Straw, Album & Leather Board). Mills, Southford, Conn.
Ford Mfg. Co. (Boards. Express, Carpet Linings, Deadening Felts), 2339 Lasalle. Mills: Madison, Ind.
Sall Mountain Asbestos Mfg. Co. (Asbestos Paper & Boards). Mills, Porter, Ind.

EAST ST. LOUIS—General Roofing Mfg. Co. (Saturating & Deadening Felts, Building & Carpet Lining, Ready Roofings)

LOCKPORT—American Straw Board Co. (See Chicago, Ill.)

MARSEILLES—*Crescent Paper Co. (Straw & Chip Board, Egg Case Fillers & Box Board, Manila Lined & Plain)
Howe & Davidson Co. (Paper Box & Wax-Coated Boards)
Marseilles Wrapping Paper Co. (Rope Papers, Glazed Express, Rag & Bag Papers)

MOUNT CARMEL—United Box Board & Paper Co. (Straw Board), Office: New York City

PEKIN—Illinois Box Board Co. (Plain & Mill-Lined Straw & Chip Boards)

PEORIA—Barrett Mfg. Co. (Roofing Felt), Office: New York City
United Box Board & Paper Co. (Straw Board), Office: New York City

QUINCY—American Straw Board Co., Office: Chicago, Ill.

ROCKFORD—Rockford Paper Box Board Co. (Straw, Chip, Jute & Combination Boards)
Rockford Paper Mills (Straw Board & Straw Wrapping)

ROCKTON—Rockton Paper Co.

TAYLORVILLE — E-Z Opener Bag Co. (Bag, Express & Manila)

VANDALIA—Ford Mfg. Co. (Roofing & Deadening Felt, Bottle Wrapper & Carpet Lining), Office: Chicago, Ill.

## INDIANA.

ALBANY — Albany Paper Co. (Straw Board, Plain & Lined), Office: Phila., Pa.

ALEXANDRIA — Alexandria Paper Co. (Machine Finished Book & News)

ANDERSON—American Straw Board Co., Office: Chicago, Ill.

BROOKVILLE—*Thompson & Norris Co. (of Indiana) (Straw & Fibre Papers for Corrugating & Corrugated Paper & Bottle Packing), Office: Brooklyn, N. Y.

CARTHAGE—United States Board & Paper Co. (Straw & Binders Board)

DELPHI—Dodge, Levi (Straw Board)

ELKHART — Elkhart Bristol Board & Paper Co. (Folding Box & Press Boards, White & Combination Boards, Tag, Document Bristols, Blanks, Silk Wrappers & Press Boards)
Elkhart Paper Co. (Machine Finished & Super-Calendered Book & Tablet)

EVANSVILLE—Funke's, Ferdinand Sons (Heavy Cloth, Mill Wrapper, Absorbent & Common Ham Wrapper & Feather Edge Fibre Work)

HARTFORD CITY—Hartford City Paper Co. (Greaseproof Parchment, Parchmyn & Glassine)
Wayne Paper Mills (Rope & Express)

INDIANAPOLIS—Beveridge Paper Co. (White & Combination Boards, Bristols, Blanks & Silk Wrappers)

KOKOMO—American Straw Board Co., Office: Chicago, Ill.
Knerr Board & Paper Co. (Box Boards), Office: Cincinnati, O.
*Kokomo Paper Co. (Pulp Boards, Layers, Folding Box & Chip Boards)
*Kokomo Wood Pulp Co. (Ground Wood)

LAFAYETTE—Lafayette Box Board Co. (Straw Board, Plain & Mill Lined Sheet)

MARION — Marion Paper Co. (Folding Box Board, News Boards, Filled & Solid Pulp Boards, Plain & Grained Jute Board & Colored Board)
Vieth's Paper Mills (Plain & Mill Lined Straw Board & Folding Box News Boards)

MOUNT VERNON—Mount Vernon Straw Board Co. (Plain & Lined Straw Board)

MUNCIE—Hinde & Dauch Paper Co. (Chip & Jute Board), Office: Sandusky, O.
United Box Board & Paper Co. (Straw Board), Office: New York City

NOBLESVILLE—American Straw Board Co., Office: Chicago, Ill

PORTER—Sall Mountain Asbestos Mfg. Co (Asbestos Paper & Boards, etc.), Office: Chicago, Ill.

ROCKPORT—United Box Board & Paper Co. (See New York City

SOUTH BEND—La Salle Paper Co. (Express, Wrapping & Specialties)

TERRE HAUTE—Terre Haute Paper Co. (Corrugating, Tube & Egg Case Boards, Straw & Rag Wrapping), Office: Dayton, O.

VINCENNES—Empire Paper Co. (Straw Board, Lined & Plain), Office: Phila., Pa.
Vincennes Paper Co. (Plain & Mill Lined Straw Board)

WABASH — United Box Board & Paper Co. (Straw Board, Doubled Straw & Paper Stock Boards, Chip, Paper, Stock, News & Combination Boards & Coated Box Boards), Office: New York City

## IOWA.

CLINTON—Clinton Paper Co. (Straw & Rag Wrapping)
Union Roofing & Mfg. Co. (Roofing & Deadening Felt), Office: St. Paul, Minn.

FORT MADISON—Brown Paper Co. (Straw & Rag Wrapping)

TAMA — National Paper Mills & Filler Co (Straw Board)

WATERLOO — Waterloo Paper Co. (Straw Board & Wrapping)

## KANSAS.

COFFEYVILLE—North Star Mfg. Co. (Straw Board & Egg Cases)

LAWRENCE—Lawrence Paper Mfg. Co. (Straw Wrapping, Board & Corrugated Packing)

## LOUISIANA.

BRAITHWAITE — United Railway & Trading Co. (Ltd.) (Wrapping), Office: New Orleans, La.

## MAINE.

AUBURN—Auburn Leather Board Supply Co (Leather Board)

AUGUSTA — *Cushnoc Paper Co. (Envelope Manila, Bag & Sack, Manila Wrapping. Yellow Writing, Laid & Wove, White Sulphite Papers, etc.)

BANGOR—*Orona Pulp & Paper Co. (Bag, Coating, Manila, Envelope, Sulphite Fibre). Mills, Orona, Me.

BELFAST—Sherman & Co. (Leather Board)

BENTON FALLS—United Box Board & Paper Co. (Jute, Board & Wood Pulp Board). Office: New York City

CHISHOLM—*International Paper Co., Office: New York City

CUMBERLAND MILLS—*Warren, S. D. & Co. (Book & Coated Paper & Soda Fibre). Office: Boston, Mass.

EAST POLAND — National Fibre Board Co. (Fibre Board & Horn Fibre), Office: Boston, Mass.

FAIRFIELD—United Box Board & Paper Co. (Ground Wood), Office: New York City

GARDINER — *Hollingsworth & Whitney Co. (Manila, Writing & Railroad Manila & Ticket, Parchment, Waxed Manilas. Linings & Packers), Office: Boston, Mass.
*Warren, S. D. & Co. (Machine-Finished & Super-Calendered Book), Office: Boston, Mass.

GREAT WORKS—*Penobscott Chemical Fibre Co. (Soda Fibre), Office: Boston, Mass.

HOWLAND—*Howland Pulp & Paper Co. (Sulphite Fibre)

JAY—*International Paper Co. (Ground Wood), Office: New York City

KENNEBUNK—Leatheroid Mfg. Co.
National Fibre Board Co. (Leather & Fibre Board), Office: Boston, Mass.

LINCOLN—*Katahdin Pulp & Paper Co. (Sulphite Fibre), Office: Boston, Mass.

LIVERMORE FALLS — *International Paper Co. (Pulp Boards & Mill Wrappers & Ground Wood), Office: New York City

MADISON—*Great Northern Paper Co. (News & Manila Paper & Sulphite Fibre & Ground Wood), Office: New York City

MECHANIC FALLS—Poland Paper Co. (Book, Writing & Lithograph)

MILLINOCKET — *Great Northern Paper Co. (News, also Ground Wood), Office: New York City

MONTAGUE—*International Paper Co. (Ground Wood), Office: New York City

NEWHALL—*du Pont, E. I. de Nemours Powder Co. (Ground Wood Flour), Office: Wilmington, Del.

OLDTOWN — *Nekonegan Paper Co. (Ground Wood)

ORONO—*International Paper Co. (News, also Ground Wood), Office: New York City
*Orono Pulp & Paper Co. (Bag, Coating, Manila & Envelope, also Sulphite Fibre), Office: Bangor, Me.

PORTLAND—Berlin Mills Co. (News Paper, Sulphite Fibre, etc.)
*Burgess Sulphite Fibre Co. (Bleached & Unbleached Sulphate Fibre). Mills, Berlin, N. H.

RILEY — *International Paper Co. (Ground Wood), Office: New York City

RUMFORD FALLS—*International Paper Co. (News, Manila, Bag, also Ground Wood & Sulphite Fibre), Office: New York City
*Oxford Paper Co., Office: New York City

SHAWMUT — *Shawmut Mfg. Co. (Ground Wood)

SKOWHEGAN—*Riverside Pulp Co. (Ground Wood)
*Skowhegan Pulp Co. (Ground Wood)

SOLON — International Paper Co. (Ground Wood), Office: New York City

SOUTH BREWER—*Eastern Mfg. Co. (Ledger, Writing & Envelope, also Sulphite Fibre & Ground Wood), Office: Bangor, Me.

SOUTH GARDINER—*International Paper Co. (Sulphite Fibre), Office: New York City

SOUTH WINDHAM—*Androscoggin Pulp Co. (Wood Pulp Board, also Ground Wood), Office: Boston, Mass.

WINSLOW — *Hollingsworth & Whitney Co. (Manila Fibre & Waxed Manilas, Linings & Packers, Railroad Manila & Ticket, also Sulphite Fibre & Ground Wood), Office: Boston, Mass.

WOODLAND (Washington County)—*St. Croix Paper Co. (News, also Sulphite Fibre & Ground Wood), Office: Boston, Mass.

YARMOUTHVILLE — Warren, S. D. & Co. (Soda Fibre), Office: Boston, Mass.

## MARYLAND.

BENTLEYS SPRINGS—Young, Dan'l & J. B. (Roofing & Rag Wrapping)
Young, Jos. W. Valley Mill (Straw Wrapping)

CHESTERTOWN—American Straw Board Co. (Straw Board, Plain, Mill Lined & Sheet Lined), Office: Chicago, Ill.

CHILDS—Garrett, C. S. & Son Co. (Hanging), Office: Phila., Pa.

ELKTON—*Kenmore Pulp & Paper Co. (Book & Writing, Laid Papers, also Soda Fibre), Office: Phila., Pa.

FREELAND—Gore, Howard M. (Manila & Rag Wrapping)

HAGERSTOWN — Antietam Paper Co. (Machine Finished & Super-Calendered Book)

LEEDS—Harlan & Bro. (Binders Board)

ROWLANDSVILLE—Felt Paper Co. (Roofing, Deadening & Dry Saturating Felt)

## MASSACHUSETTS.

ADAMS — Berkshire Hills Paper Co. (Bond, Ledger & Linen)
Brown, L. L. Paper Co. (Linen Ledger & Record, Merchant & Bankers Ledgers)

BANCROFT—Bulkley, Dunton & Co. (Bancroft Mills, also Union Mills), Office: New York City

BOSTON—Crehore, Chas. F. & Sons (Press Boards & Jacquard Cards). Works: Newton Lower Falls, Mass.
Groton Leather Board Co. (Heating & Counter Boards). Mills: W. Groton, Mass.
Hollingsworth & Vose Co. (Red Rope Roofing & Insulating; All & Part Rope Tag, Pattern Box Stay, Flour & Cement Sack & Specialties)

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*Hollingsworth & Whitney Co. (Manila, Writing & Railroad Manila & Ticket Parchment, Waxed Manilas, Lining & Packers, Manila Fibre, Sulphite Fibre & Ground Wood). Mills, Gardiner, Me., & Winslow, Me.
*Katahain Pulp & Paper Co. (Sulphite Fibre Mills, Lincoln, Me.
*Mt. Tom Sulphite Pulp Co. Works: Mt. Tom, Mass.
Munroe Felt & Paper Co. (Roofing Carpet Lining & Ingrain Hanging). Mills, Lawrence, Mass.
National Fibre Board Co. (Fibre & Leather Board & Horn Fibre). Mills, East Poland, Me., Kennebunk, Me., & Lawrence, Mass.
Penobscott Chemical Fibre Co. (Soda Fibre). Mills, Great Works, Me.
*St. Croix Paper Co. (News, Sulphite Fibre & Ground Wood). Mills, Woodland, Me.
Tileston & Hollingsworth Co. (Book, Lithograph, Card & Plate). Mills, Hyde Park, Mass.
*Warren, S. D. & Co. (Book & Coated Paper, Soda Fibre, Machine Finished & Super-Calendered Book). Mills, Cumberland Mills, Me., & Gardiner, Me.
Wheelwright, Geo. W. Paper Co. (Coating & Book, Bristol Boards, White & Tinted Blanks, Music, etc.). Mills, Fitchburg, Mass., North Leominster, Mass., & Wheelwright, Mass.

BRIDGEWATER—Jenkins, Geo. O. (Leather Board), Office: Whitman, Mass.

CHELSEA — **CABOT, SAMUEL (Inc.)** ("Cabot's" Sheathing & Deafening Quilt). Office, Boston, Mass. (See adv. index, end of book)

DALTON—Crane, Z. & W. M. (Extra Fine Writing)
Crane & Co. (Bank Note, Parchment & Bond)
Old Berkshire Mills Co. (Z. & W. Murray Crane, Props.) (Superfine Writings & Bristol Board)
Weston, Byron Co. (Linen Ledger & Record)

EAST PEPPERELL—See Pepperell

EAST WALPOLE—Bird, F. W. & Son (Roofing, Building, Sheathing, Hardware, Wrapping, Insulating & Special Waterproof Papers)

FARLEY—*Farley Paper Co. (Colored Bristol & Card Middles, also Ground Wood)

FITCHBURG—Crocker, Burbank & Co. (Book, Bristol Board, Card, Blotting & Writing)
Falulah Paper Co. (Mill Blanks)
Fitchburg Paper Co.—Rodney Wallace, Firm Name—(Card, Coating, Book & No. 1 Hanging)
Wheelwright, Geo. W. Paper Co. (Coating Paper), Office: Boston, Mass.

HAVERHILL—Haverhill Box Board Co. (Box Boards)

HOLYOKE — American Writing Paper Co. (Book, Envelope, Writing, Wedding Folios, Calender & High Plate Finish, Bond, Linen & Ledger, Government Bond & Record Ledger, Colored Mediums, Drawing & Mimeograph, White & Colored Bristols)
Chemical Paper Co. (Tub-Sized Writing, Envelope, Papeterie, Bonds, Linens, Folding Box Boards, Silk Boards, Detail Drawing & Cover)
Crocker-McElwain Co. (Writings, Ledgers, Bonds, & Card Index Bristols)
Franklin Paper Co. (White & Colored Bristol Boards, White Blanks & Index Bristols)
Japanese Tissue Mills (Crystal Crepe & Decorating Paper, Paper Napkins & Fancy Decorated Tissues)
Mt. Holyoke Tissue Mills. Mills: South Hadley
Newton Paper Co. (Sheathing, Deadening Felt, Wool Felt, Heavy Wrappers, Jute & Rope Manila & Specialties, Corrugated Blue Carpet Lining Felt)
Parsons Paper Co. (Bonds, Ledgers, Bristols & Linens)
Taylor-Burt Co. (Book, Cover, Bond, Envelope, Papeterie, Vellum & Special Finish Papers)
Valley Paper Co. (Bonds, Linens, Ledgers Photographic Papers)
Whiting Paper Co. (Writing)
Whitmore Mfg. Co. (Surface Coated, Enameled Covers & Cardboard)

HOUSATONIC—Rising, B. D. Paper Co. (Bond, Linen & Ledgers, Wedding & Index Bristols)

HUNTINGTON—American Writing Paper Co. (Writing), Office: Holyoke, Mass.

HYDE PARK—Tileston & Hollingsworth Co. (Book, Lithograph, Card & Plate), Office: Boston, Mass.

LAWRENCE—Champion-International Co. (Soda & Sulphite Fibre)
Merrimac Paper Co. (Super-Calendered & Machine Finished & Enameled Book, Coated & Uncoated Lithograph, Writing, Music & Envelope)
Munroe Felt & Paper Co. (Roofing, Carpet Lining & Ingrain Hanging), Office: Boston, Mass.
National Fibre Board Co. (Leather Board), Office: Boston, Mass.

LEE — American Writing Paper Co. (Blotting & Card), Office: Holyoke, Mass.
Eaton, Dikeman Co. (Blotting & All Grades of Absorbent Papers)
Mountain Mill Paper Co. (High Grade Ledgers & Specialties)
Smith Paper Co. (Copying, Silver, Roll, Colored, Condenser, Typewriter, Wrapping & Carbon Tissues)

MILLERS FALLS—Millers Falls Paper Co. (Book, Cover, Index Bristol, Bond & Tinted Superfines)

MITTINEAGUE—American Writing Paper Co. (Writing, Bond, Russian Linen Ledger & Wedding Board), Office: Holyoke, Mass.
Mittineague Paper Co. (Bond, Book, Cover, Drawing Paper & Board, Wedding, Photographic Paper & Board, Box Cover Paper & Board)
Southworth Co. (Bonds, Linens, Ledgers & Folded Papers)
Worthy Paper Co. (Bond, Ledger, Linen, Fine, Superfine, Pasted Wedding Board & Fancy Covers, Deckle Edged)

MONROE BRIDGE—*Ramage, Jas. Paper Co. (White & Colored Manila Bristol, Manila Tag Board, Duplex Board, Cover & Colored Specialties, also Ground Wood)

MOUNT TOM—*Mount Tom Sulphite Pulp Co. (Bleached Sulphite Fibre). Office: Boston, Mass.

NEW BEDFORD—Pairpoint Corporation (Straw Board, Heavy Baling & Case Lining Papers)

NEWTON LOWER FALLS—Crehore, Chas. F. & Son (Press Board & Jacquard Cards), Office: Boston, Mass.

NORTH DIGHTON—Lincoln, L. & CO. (Manila, Sheathing, Tack & Tailors' Pattern)

NORTH LEOMINSTER—Wheelwright, Geo. W. Paper Co. (Bristol Boards, White & Tinted Blanks, Coating & Book), Office: Boston, Mass.

NORTH WILBRAHAM — Collins Mfg. Co. (Writing)

OTTER RIVER—Otter River Board Co. (Binders & Trunk Boards)

PEPPERELL — Nashua River Paper Corp. (Book, Lithograph, Coating & Writing)
Parker, H. A. & Co. (Mill Wrappers & Sheathing)

PITTSFIELD—Eaton, Crane & Pike Co. (Bond & Writing, etc.)

RUSSELL—Chapin & Gould Paper Co. (Bond, Ledger & Writing), Office: Springfield, Mass.

SOUTH HADLEY — Japanese Tissue Mills (Fancy Colored Tissues, Crystals, Crepe Decorating Papers), Office: Holyoke, Mass.
Mount Holyoke Tissue Mills. Office: Holyoke, Mass.
Stony Brook Paper Co. (Cimmerian Black Papers & Specialties), Office: Holyoke, Mass.

SOUTH HADLEY FALLS — Carew Mfg. Co. (Ledgers, Bonds, Linens & Typewriter Papers)
Hampshire Paper Co. (Bond & Typewriter)

SOUTH LEE—American Writings Paper Co. (Writing), Office: Holyoke, Mass.

TOWNSEND HARBOR—Spaulding, J. & Sons Co. (Fibre Boards), Office: North Rochester, N. H.

TURNERS FALLS — Esleek Mfg. Co. (Onion Skin, Manifolding Typewriter, Bond & Linens)
International Paper Co. (High Grade Cotton Waste, News, also Ground Wood), Office: New York City
Keith Paper Co. (Writing, Bond, Ledger, Wedding Bristols & Specialties)

WALPOLE—Hollingsworth & Vose Co. (Insulating Rope, Tag, Pattern, Box Stay, Flour & Cement Sack), Office: Boston, Mass.

WATERTOWN—Union Bag & Paper Co. (Bag & Manila), Office: New York City

WEST DUDLEY—West Dudley Paper Mills Co. (Manila, Lining, Bogus & Specialties)

WESTFIELD — Crane Bros. (Linen Ledger, Linen Writing, Linenoid Goods)

WEST GROTON—Groton Leather Board Co. (Heeling & Counter Board), Office: Boston, Mass.
Hollingsworth & Vose Co. (Red Rope Roofing & Insulating, All & Part Rope Tag Pattern, Box Stay, Flour & Cement Sack & Specialties), Office: Boston, Mass.

WHEELWRIGHT—Wheelwright, Geo. W. Paper Co. (Book Coating & Music), Office: Boston, Mass.

WHITMAN—Jenkins, Geo. O. (Leather Board)

WORONOCO—Woronoco Paper Co. (Bond, Ledger, Superfine, Wedding, Pasted Bristol & Typewriter)

## MICHIGAN.

ALLEGAN—*Dayton Folding Box Co. (Straw & Rag Wrapping, Lining & Combination Boards), Office: Cincinnati, O.

ALPENA—*Fletcher Paper Co. (Fibre, Bag & Manila, also Sulphite Fibre, Ground Wood)

CHEBOYGAN—*Cheboygan Paper Co. (News, also Ground Wood & Sulphite Fibre)

CONSTANTINE—Constantine Board & Paper Co. (Express, Fibre, Ham & Box Board)

DETROIT — Amafibre Mills Co. (Building Paper). Mills: Port Huron, Mich.
*Detroit Sulphite Pulp & Paper Co. (High Grade Envelope, Wrapping, Documents Manila, Tag Board, Bristols, Cover & Specialties, also Sulphite Fibre)
*Michigan Sulphite Fibre Co. ("Mitscherlich," Process Sulphite Fibre). Mills, Port Huron, Mich.

JACKSON—Michigan Bag & Paper Co. (Bag Paper & "Ever-ready," Quick Opening Bags & Satchel Bottom & Square Bags)

KALAMAZOO — Bryant Paper Co. (Machine Finished & Super-Calendered Book, Map, Lithograph, Label, Music, Folder, Drawing, Rag & Wood Envelope, Tinted Laid Flats & Tub Engine-Sized Writings, French Folio & Specialties)
Kalamazoo Paper Co. (Map, Writing, Envelope, Bond, Card & Coating, Book, Lithograph & Colored & Laid Flats)
King Paper Co. (Book, Folder, Label, Lithograph, Map, Envelope & Writing)
Monarch Paper Co. (Machine Finished & Super-Calendered Book, Lithograph, Card, Coating, Folders & Tablet)
Standard Paper Co. (Card Middles & Box Western Board & Paper Co. Boards)

MENOMINEE—Marinette & Menominee Paper Co. (See Marinette, Wis.

MONROE—Boehme & Rauch Co. (Patent Coated & Combination Box Boards)
Monroe Binder Board Co. (Binders, Buggy & Backing Board)
Monroe Paper Co. (Straw, Rag, Wrapping & Lining Papers)

MUNISING—*Munising Paper Co. (High Grade Sulphite Fibre & Specialties)

MUSKEGON—*Central Paper Co. (Fibre Manila, also Sulphite Fibre)

NILES—*French Paper Co. (Super-Calendered & Machine Finished Book)
*Niles Board & Paper Co. (Straw, Chip, Manila Lined & Colored Board, also Ground Wood)

OTSEGO—Babcock Tissue Paper Co. (Tissue Papers)
Bardeen Paper Co. (Book, Blotting, Cover, French Folio, Matrix, Map, Poster & Writing, Label, Ticket, Bible, Drug, Mimeograph, Parchment, Railroad Manila, Music, Paraffine, Coupon & Rag Papers, Felts, Ham, Express & Mill Wrappers)
Mac-Sim-Bar Paper Co. (Bristols, Sign Board, Saturating, Roofing & Deadening Felts, Card Middles, Document, Plain & Coated Box Boards, Plain & Duplex Bag, Tough Check, Rope & Fibre Papers, Cap, Wool, Building, Mill Wrappers, Corrugated Carpet Lining, Bottle Wrappers)
Otsego Coated Paper Co. (Coated Papers, etc.)

PALMYRA—Mitchell & Son (Rag Wrapping, Sheathing & Mill Wrappers)

PLAINWELL—Michigan Paper Co. (Machine Finished Book, White & Colored French Folio, Catalogue, Pattern & Non Fading Poster)

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PORT HURON—Amafibre Mills Co. Office: Detroit, Mich.
*Michigan Sulphite Fibre Co. ("Mitscherlich" Process Sulphite Fibre). Office: Detroit, Mich.
ROCHESTER—Barnes Paper Co. (Book, News, Tobacco & Wrapping)
ST. JOSEPH—Mullen Bros. Paper Co. Building & Specialties)
THREE RIVERS—Eddy Paper Co. (Card Middles, Bristols, Bogus Bristols, Bag & Specialties)
VICKSBURG—Lee Paper Co. (Bond, Ledger, Envelope, Plated & Linen Loft-Dried Papers)
YPSILANTI — Peninsular Paper Co. (Bond, Cover, Flats & Specialties)

## MINNESOTA.

CLEARWATER — *Clearwater Pulp Co. (Pulp Board)
CLOQUET — *Northwest Paper Co. (News & Manila, also Ground Wood)
GRAND RAPIDS—*Itasca Paper Co. (News, also Ground Wood)
LITTLE FALLS—*Hennepin Paper Co. (News Manila, also Ground Wood), Office: Minneapolis, Minn.
MINNEAPOLIS—*Hennepin Paper Co. (News, Manila & Ground Wood). Mills, Little Falls, Minn.
ST. PAUL—Union Roofing & Mfg. Co. (Roofing & Deadening Felt). Mills, Clinton, Iowa
SARTELL—*Watab Paper & Pulp Co. (News, also Ground Wood)
WINONA—Union Fibre Co. (Degumed Flax Fibre & Mineral Wool Boards, Insulators, Building Sheathing, etc.)

## MISSOURI.

KANSAS CITY—Star Paper Mill Co. (News)

## NEBRASKA.

LINCOLN — Western Paper & Bag Co. (Butchers' Manila & Straw Wrapping)

## NEW HAMPSHIRE.

ASHLAND—Continental Paper Bag Co. (Toilet Papers). Office: New York City
International Paper Co., Office: New York City
BATH—Cushman & Rankin Co. (Fibre Leather Board)
BENNINGTON—Monadnock Paper Mills (Machine Finished & Super-Calendered Book, English Finish, Music, Lithographic, Envelope & Coating)
BERLIN — *Berlin Mills Co. (News, also Ground Wood & Sulphite Fibre)
*Burgess Sulphite Fibre Co. (Bleached & Unbleached Sulphite Fibre), Office: Portland, Me.
International Paper Co. (News & Card Middles), Office: New York City
BRISTOL—*Mason-Perkins Paper Co. (News, Colored Poster & Box Lining, also Ground Wood)
CLAREMONT — Claremont Paper Co. (Drawing, Super-Coating, Book, Manila)
FRANKLIN—*International Paper Co. (News, No. 2 Book, Manila Specialties, also Ground Wood), Office: New York City
GROVETON—*Odell Mfg. Co. (Fibre & Manila, also Sulphite Fibre)
HINSDALE—Ashuelot Paper Co. (Tissue, Yellow Copying & High Grade Tissues)
Fisk Paper Co. (White & Manila Tissue & Toilet Papers)
Robertson Bros. (Tissue Manila in Rolls)
Robertson, E. C. & Son (Aseptic Papers, Tissue Manila, White & Colored Tissue in Rolls & Large Sheets)
Robertson, G. A. & Co. (Tissue Manila & Toilet, Rolls & Large Sheets)
Robertson, Orren C. Co.
LINCOLN — *Henry, J. E. & Sons Co. (Sulphite Fibre)
Henry Paper Co. (Sulphite Bag, Manila & Envelope)
MANCHESTER — Amoskeag Paper Mills Co. (Book Paper)
MILTON—Milton Leather Board Co. (Leather Board)
NORTH ROCHESTER—Spaulding, J. & Sons Co. (Fibre Boards). Mills, Townsend Harbor, Mass.
SUNAPEE—*Emerson Paper Co. (Book Paper, also Ground Wood)
WADLEYS FALLS—Lee Fibre Co. (Leather & Fibre Boards)
WEST CLAREMONT—Coy Paper Co. (Tissue Manila)
Jarvis Paper Mills (Russell Jarvis, Prop.) (Pattern Tissue, All Rag Toilet, Sheets Jumbo Rolls), Office: Claremont, N. H.
WEST HENNIKER—Contoocook Valley Paper Co. (Book, Card & Specialties in Strong Papers)
WEST HOPKINTON—Davis Paper Co.

## NEW JERSEY.

BLOOMFIELD—Davey, E. H. Co. (Trunk, Binders & Friction Boards, High Grade Tar Boards)
Diamond Mills Paper Co. (Copying, Carbon, Cigarette & Tissues), Office: New York City
BOGOTA—American Paper Co. (Paper, Paper Board & Specialties, Binders, Leather Trunk & Friction Boards)
Traders' Paper Board Co. (Box & Lithograph Boards, Card Middles & Coating Boards)
BOONTON — Field & White Co. (Roofing & Deadening Felts), Office: New York City
National Metal Molding Co. (Paper for Insulating Purposes). Office, Pittsburg, Pa.
BUTLER—Pequannock Valley Paper Co. (Tissue Manila)
CAMDEN—West Jersey Paper Mfg. Co. (Rope Manilas, All Grades)
CLIFTON—Clifton Paper Mills (Box Boards)
ELIZABETH — Barrett Mfg. Co. (Roofing & Building)
GARFIELD—Hammerschlag Mfg. Co. (Waxed Papers & Tissues, Entire Product Consumed in Their Own Factory), Office: New York City
GLOUCESTER—Gloucester Paper Co. (Building, Roofing, Sheathing & Wrapping Papers), Office: Phila., Pa.
HAMBURG—Union Waxed & Parchment Paper Co. (Tissue & Waxed Papers)
HOBOKEN—Hinde & Dauch Paper Co. (Rag, Jute, Chip & Corrugated Paper), Office: Sandusky, O.
Hoboken Paper Mill Co. (Lining, Manila, Building & Specialties)
JERSEY CITY—Boyle, John F. Co. (News & Straw Boards)
Davey, W. O. & Sons (Binders, Friction & Trunk Board)
Franklin Paper Mills Co. Mills: Swarthmore, Pa.
Jersey City Paper Co. (White & Colored Tissues)
Leo, Jas. Co. (Chip & Combination Box Boards)
LAMBERTVILLE — Gandy, Wm. H. (Tissue Manila & Copying)
Mann, Wm. Co. (Railroad Copying & Manifold Papers), Office: Phila., Pa.
LITTLE FERRY — Little Ferry Paper Co. Deadening & Saturating Felts)
MILLBURN—Diamond Mills Paper Co. (Cigarette, Pattern, Copying & Tissue), Office: New York City
Fandango Mills (Binders Boards)
MORRISTOWN—Muir, Jas. A. (Straw Board. Binders & Leather Board)
NEWARK—Albey Bros. (Binders, Box, Button & Trunk Board)
Waverly Paper Box Board Co. (Box Boards)
NUTLEY—La Monte, Geo. & Son (Inc.) (Safety Papers & Specialties, Bankers' Safety. Railroad Ticket, Writings & Animal-Sized Papers in Rolls, Quadrille)
White Spring Paper Co. (White Tissue)
PASSAIC—Paterson Parchment Paper Co.
PLEASANT MILLS—Pleasant Mills Paper Co. (Rope Manila), Office: Phila., Pa.
RIEGELSVILLE — Warren Mfg. Co. (Manila, Jute & Rope, Rope Bristol in 15 Colors), Office: New York City
SCOTCH PLAINS — Seeley Paper Mills Co. (Binders, Friction & Pattern Boards)
WANAQUE—Wanaque River Paper Co. (Super-Calendered & Machine Finished Book), Office: New York City
WHIPPANY — McEwan Bros. (News & Folding Paper Box Boards)
United Box Board & Paper Co. (Patent News Board & Chipped Board), Office: New York City

## NEW YORK.

AMSTERDAM—Smeallie, P. H. & Co. (News & Chipped Board)
ANCRAM — Ancram Paper Mill (White, Colored, Manila & Anti-Rust Tissue & Specialties in Tissue), Office: New York City)
AUSABLE CHASM — Estes, Herbert (Heavy Sulphite Screening & Wrapping)
AUSABLE FORKS—*Rogers, J. & J. Co. (Bag, Envelope, Hardware & Manila, also Sulphite Fibre)
BALLSTON SPA—*Ballston Pulp & Paper Co. (Manila, Tissue, Light Weight Papers, Roll & Package Toilet a Specialty)
National Folding Box & Paper Co. (Manila, Board & Single & Double Lined Chip Box Board), Office: New Haven, Conn.
*Union Bag & Paper Co. (Bag & Manila, also Sulphite Fibre), Office: New York City
BATTENVILLE — Phoenix Paper Co. (White & Manila Tissue Sheets & Jumbo Rolls), Office: Greenwich, N. Y.
BEAVER FALLS—*Lewis, J. P. Co. (Manila, Jute & Combination Boards, also Ground Wood)
*Lewis, Slocum & Lefevre (Ground Wood)
Lewis & Slocum (Wood Pulp & Sulphite Boards in Natural Colors & Tints & Milk Bottle Cap Stock)
BLACK RIVER—Jefferson Board Mills (Pulp Boards)
Jefferson Paper Co. (Manila, Waterproof Butchers' Manila, Hanging, Wax Papers, etc., also Ground Wood)
*Jefferson Power Co. (Hanging, Sulphite Fibre & Ground Wood)
BLOSSVALE—Blossvale Paper Co. (White & Manila Tissue)
BROWNVILLE — *Brownville Board Co. (Tag Board, Document & Manila & Manila Folding Box Boards, also Ground Wood)
*Brownville Paper Co. (Railroad Manila, Colored Poster, Glazed Fibre & Colored Specialties, also Ground Wood)
*Harmon Paper Co. (Book, News, Manila & Colored Specialties, also Ground Wood)
CANAAN—Heffermann Paper Co. Office: New York City
CARTHAGE — *Carthage Sulphite Pulp Co. (Sulphite Fibre)
*Carthage Tissue Paper Mills (Manila, White & Colored Tissue & Toilet Paper, Packages & Rolls)
*Champion Paper Co. (Manila, also Ground Wood)
De Grasse Paper Co. Mills: Pyrites, N. Y.
*Empire Sulphite Pulp Co. (Sulphite Fibre)
*Island Paper Co. (Manila, Bag & Dry Fibre, also Ground Wood)
Leray Paper Co. (Tag, Wrapping Screening & Heavy Weight Papers)
*West End Paper Co. (News)
CASTLETON—Fort Orange Paper Co. (Buckskin & Columbia Box Boards, Card Middles, Silk Wrappers, Jacquard Boards, Featherweight Textile Boards), Office: New York City
Ingalls & Co. (Binders, Friction, Trunk, Wagon, Pattern, Leather & Album Board)
CHATEAUGAY—*Chateaugay Pulp Co. (Ground Wood)
*High Falls Pulp & Paper Co. (News, Hanging, also Ground Wood)
CHATHAM—Payn, Louis F. (Box Boards)
Stony Brook Box Board Mills (Box Boards)
CLAYVILLE — Clayville Paper Co. (Manila, White & Colored Tissues), Office: Syracuse, N. Y.
COHOES — *Gilbert & Bell (Ground Wood), Office: Waterford, N. Y.
Leversee & Snyder Mfg. Co. (Chip Boards)
DANSVILLE — Dansville Paper Mill (J. H. McNairn, Prop.) (White & Colored Tissues), Office: Toronto, Canada
DE FERIET — *St. Regis Paper Co. (News, also Ground Wood & Sulphite Fibre), Office: Watertown, N. Y.
DEXTER—*Dexter Sulphite Pulp & Paper Co. (Fibre Wrapping & Bag Papers, also "Mitcherlich" Sulphite Fibre & Ground Wood)
*Jefferson Power Co. (Hanging, also Ground Wood), Office: Black River, N. Y.
ENDICOTT—Endicott-Johnson Co. Mills: Lestershire, N. Y.
FALLSBURG — Lefevre, Edw. Y. (Cloth Lined Tissue, Crinkled & Light Weight Manila)
FAYETTEVILLE — Lawless Paper Co. (Manila & Tissue), Office: Rochester, N. Y.
FELTS MILLS—*Taggarts Paper Co. (News & Colored Poster & No. 2 Manila, also Ground Wood), Office: Watertown, N. Y.
FORESTPORT — *Pennington, A. R. & Co. (Ground Wood)
FORT MILLER—*Fort Miller Pulp & Paper Co. (Hanging, also Ground Wood)
FORT PLAIN — Wood & Nellis (Air-Dried Straw Board)
Yoran, Levi (Air-Dried Straw Board)

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FULTON—*Battle Island Paper Co. (Sulphite Fibre)
Eureka Paper Co. (Rope, Fibre, Express, Manila & Saturating & Specialties)
Granby Pulp & Paper Co. (Light Weight Manilas, News & White Lining)
*Oswego Falls Pulp & Paper Co. (News, Hanging, Wood Pulp & Combination Board)
Victoria Paper Mills Co. (Cotton Sampling, Fruit Wrapping, Leather Board, Manila, Rope, Sack, Tissue, Tissue Manila, Flour & Nail Sacks & Sugar Bags)
Volney Paper Co. (Saturated Felts)
GLENS FALLS — *International Paper Co. (News & Hanging, also Ground Wood), Office: New York City
*Finch, Pruyn & Co. (Inc.) (News & Half Tone, also Ground Wood)
GOUVERNEUR — *Aldrich Paper Co. (Wood Pulp), Office: Watertown, N. Y.
Continental Paper Bag Co. (High Grade White, Colored & Manila Tissues), Office: New York City
GREAT BEND—*Taggarts Paper Co. (Hanging & Tablet), Office: Watertown, N. Y.
GREENWICH—*Blandy Paper Co. (Tag, Manila & Special Papers for Glazed Paper & Cardboard), Office: Schuylerville, N. Y.
Phoenix Paper Co. (See Battenville)
HADLEY—*Union Bag & Paper Co. (Bag & Manila, also Ground Wood), Office: New York City
HARRISVILLE—*Diana Paper Co. (Tissue & Light Weight Colored, also Ground Wood)
HERKIMER—International Paper Co. (News Manila & Fibre Papers), Office: New York City
HERRING — Jefferson Board Mills Co. (Box Tag & Wood Pulp Board), Office: Black River, N. Y
*Jefferson Power Co. (Sulphite Fibre), Office: Black River, N. Y
HINCKLEY — *Hinckley Fibre Co. (Sulphite Fibre)
LESTERSHIRE — Endicott-Johnson Co. Manufacture Leather Board for Their Own Use) Office: Endicott, N. Y.
LITTLE FALLS—Kingston's, Wm. Son (Roofing, Dry, Saturating & Deadening Felts, Building & Carpet Linings)
Little Falls Paper Co. (Tissue & Tissue Manila), Office: Newburgh, N. Y.
LOCKPORT — Lockport Paper Co. (Roofing, Deadening, Sheathing & Heavy Wrapping)
*United Box Board & Paper Co. (Manilla Coated & Combination Boards, Card Middles & Specialties), Office: New York City
*United Indurated Fibre Co. (of N. J.) (Indurated Ware & Ground Wood)
LYONSDALE—Ager, C. Leonard J. (Straw & Shivy Fibre)
*Moyer & Pratt (Manila & Fibre, also Ground Wood)
LYONS FALLS—Gould Paper Co. (News, No. 2 Manilla, also Sulphite Fibre & Ground Wood)
*International Paper Co. (Ground Wood), Office: New York City
MALONE — *Malone Paper Co. (News, also Ground Wood)
MARCELLUS FALLS — Onondaga Paper Co. (Screening, Express, Fibre, Manila & White Tissue, Colored Specialties)
Marcellus Paper Co. (Express, Screenings, Mill Wrappers & Hardware), Office: Syracuse, N. Y.
MASSENA — Indestructible Fibre Co. (Fibre Boards), Office: New York City
McKEEVER—See Thomson, N. Y.
MECHANICSVILLE — *West Virginia Pulp & Paper Co. (Machine Finished & Super Calendered Book, Lithograph & Varnish Label, also Bleached Soda & Sulphite Fibre), Office: New York City
MELLENVILLE—Berkshire Box & Paper Co. (Box Board, Wrapper, Card Middles, Lined & Unlined Folding Box Board)
MIDDLE FALLS—Bosson Mfg. Co. (Leather & Fibre Board)
*Stevens & Thompson Paper Co. (Tissue & Manila Tissue, also Ground Wood)
MONTEZUMA — Montezuma Fibre Co. (Air Dried Board Made from Flag)
MUMFORD—Gardner, L. H. Paper Co. (Manila Tissue & Toilet)
NAPANOCH—Frost & Sons Paper Co. (No. 1 White & Jute Tissues)
Humphrey & Young
Napanoch Mfg. Co. (See Jno. C. Hoornbeck, Wawarsing, N. Y.)
NEWARK—International Egg Carrier & Paper Co. (Mill Wrappers, Wrapping & Building Papers)
NEWBURGH—Little Falls Paper Co. (White & Manila Tissue)
NEW HAMPTON — Diamond Mills Paper Co. (Tissue), Office: New York City

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN — Bainbridge's, Chas. T. Sons (White Tissue Used in Our Own Manufacturing of Crepe Tissue & Paper Napkins), 2 Cumberland
JOHNS, H. W.-MANVILLE CO. Asbestos Paper & Mill Board), ft of 39th; Office: 100 William, New York. (See adv. index, end of book)
Thompson & Norris Co. (Straw & Fibre Paper for Corrugating & Corrugated Paper & Bottle Packing), cor Concord & Prince. Mills, Brookville, Ind.
Warren Mfg. Co. (Rope Paper, Sand Paper, Music Paper, Rope, Tag & High Grade Specialties Made from Manila Fibre), Meadow & Bogart

### Boroughs of Manhattan & Bronx.

NEW YORK—Ancram Paper Mills (White, Colored, Manila & Anti-Rust Tissue & Specialties in Tissue), 201 Wooster. Mills, Ancram, N. Y.
Barrett Mfg. Co. (Roofing Felt), 17 Battery pl. Mills, Peoria, Ill.
Bulkley, Dunton & Co. (Card Middles, Book, etc.), 75 Duane. Mills, Bancroft, Mass.
Continental Paper Bag Co. (Toilet Papers, High Grade White Colored & Manila Tissues, Lightweight Specialties), 17 Battery pl
Diamond Mills Paper Co. (Copying, Carbon, Pattern, Cigarette Tissues, Typewriter & Silver Tissue)
Field & White Co. (Roofing & Deadening Felts), 116 Nassau
Fort Orange Paper Co. (Buckskin & Columbia Box Boards, Card Middles, Silk Wrappers, Jacquard Boards), 74 Duane
*Great Northern Paper Co. (News & Manila Paper, Sulphite Fibre & Ground Wood), 49 Wall. Mills, Madison, Me.
Heffernam Paper Co. Mills: Canaan, N. Y.
Indestructible Fibre Co. (Fibre Boards), 45 B'way, Massena, N. Y.
*Interlake Pulp & Paper Co. ("Mitscherlich," Process Sulphite Fibre & Ground Wood), 51 Wall. Mills, Appleton, Wis.
*International Paper Co. (News, Manilas, Fibre), 30 Broad
JOHNS, H. W.-MANVILLE CO. (Asbestos Paper & Mill Board), 100 William. (See adv. index, end of book)
New York & Penna Co. (Soda Fibre Dry in Rolls, Bond, White & Colored Machine Finished & Super-Calendered Book, Cover, Envelope Label, Railroad Manila & Writing, Bleached Sulphate, Bay, Express, Fibre, Hardware, etc.), 200 5th av
*Oxford Paper Co. (Machine Finish & Super Calender Book, Lithograph, Varnished Label; also Soda & Sulphite Pulp), 225 5th av. Mills: Rumford Falls, Me.
*Ticonderoga Pulp & Mill Co. (Book, Writing, Magazine & Coating; also Soda Fibre), 200 5th av. Mills, Ticonderoga, N. Y.
*Union Bag & Paper Co. (Blank Wall Paper, Manila, Fibre, Express, Bag), 17 Battery pl
United Box Board Co., 200 5th av
Walker, J. H. (Book Envelope & Writing), 261 B'way. Mills, Riverside, Conn.
Wanaque River Paper Co. (Super-Calendered & Machine Finished Book), 290 B'way. Mills, Wanaque, N. J.
Warren Mfg. Co. (Manila, Jute & Rope, Rope Bristol in 15 Colors), 41 Park Row. Mills, Riegelsville, N. J.
*West Virginia Pulp & Paper Co. (Machine Finished & Super-Calendered Book, Lithograph & Varnish Label; also Bleached Soda & Sulphite Fibre, Writing, Blank Book, Tablet, Ground Wood), 200 5th av
York Haven Paper Co. (Colored Fibre, Express, Waterproof Building, Roofing & Insulating & "X Loid" Prepared Roofing; also Ground Wood & Sulphite Fibre) 290 B'way. Mills, York Haven, Pa.

### Borough of Queens.

LONG ISLAND CITY—Ravenswood Paper Mill Co. (Straw & Plain Colored Chip Board, Lined or Unlined)

**(End of New York City)**

NIAGARA FALLS — *Cliff Paper Co. (News, Rolls, Sheets, Hanging, also Ground Wood)
*International Paper Co. (News & Manilas), Office: New York City
Lockport Paper Co. (Building, Roofing, Wrapping & Deadening Felts), Office: Lockport, N. Y.
*Niagara River Mfg. Co. (Ground Wood)
*Pettebone-Cataract Paper Co. (Roll & Sheet News, also Ground Wood)
NORFOLK—Raymondville Paper Co. (Ground Wood), Office: Watertown, N. Y.
Remington-Martin Co. (News & Hanging, also Sulphite Fibre & Ground Wood), Office: Watertown, N. Y.
NORTH HOOSICK—Stevens & Thompson (Inc.) (Specialties in Colors)
NORWOOD—St. Lawrence County—*Norwood Paper Co. (News, also Ground Wood), Office: Watertown, N. Y.
ORISKANY FALLS—Oriskany Falls Paper Box Co.
PALATINE CHURCH—See St. Johnsville, N. Y.
PALMER—*International Paper Co. (Sulphite Fibre & Ground Wood), Branch of New York
PENFIELD — Lawless Paper Co. (Waterproof Bogus), Office: Rochester, N. Y.
PENN YAN—Andrews, John T. & Co. (Butchers' Manila, Bogus, Wrapping & Sheathing)
Fox, W. H. & Son (Straw Wrapping)
Ramsey, E. R. Co. (Leather Board & Insulating Fibre)
PHOENIX — Crescent Paper & Machine Co. (Tissue Manila)
Oswego River Paper Mills (Tissue for Toilet Papers, All Kinds of Packages & Roll Toilet Papers Our Specialty)
Phoenix Toilet & Paper Mfg. Co. (Manila Tissue & Toilet)
Sweet Bros. Paper Mfg. Co. White, Colored & Manila Tissue)
Three Rivers Paper Co.
PIERCEFIELD—*International Paper Co. (Manila, also Ground Wood & Sulphite Fibre), Office: New York City
PIERMONT — Piermont Paper Co. (Patent Coated Pulp Lined & Other Folding Box Boards & White Blanks)
PLATTSBURG—*Lake Champlain Pulp & Paper Co. (Bag, Hanging, News, Manila Tissue, also Ground Wood)
*Progressive Pulp & Paper Co. (Bag, News, Hanging & Ribbon, also Ground Wood)
*Saranac Co. Ground Wood) Wood)
PORT LEYDEN—Gould Paper Co. (Heavy Manila & Drab Express), Office: Lyon Falls, N. Y.
POTSDAM—Potsdam Paper Mills (Hangings)
*Raquette River Paper Co. (Manila, Manila Envelope Fibre, Bag, Express & Parchment; also Sulphite Fibre)
PYRITES—De Grasse Paper Co. (Sulphite Bag & Manila, also Ground Wood & Sulphite Fibre) Office: Carthage, N. Y.
RAYMONDVILLE — Raymondville Paper Co. (News & Hanging, also Ground Wood) Office: Watertown, N. Y.
ROCHESTER—Flower City Tissue Mills Co. (White, Colored & Manila Tissue, All Grades of Fourdrinier White Tissues)
Lawless Paper Co. (Manila & Tissue, Waterproof)
ROCK CITY FALLS—Brown, E. M. Paper Co. (Card Middles, Coating, Manila & Du-Moran-Chalfant Paper Co. plex)
SALISBURY MILLS — Arlington Paper Co. (Book & Writing)
SANDY HILL—*Union Bag & Paper Co. (Blank Wall Paper, Manila, Fibre, Express & Bag, also Ground Wood & Sulphite Fibre), Office: New York City
ST. JOHNSVILLE — Smith, Isaac E. (Straw Board)
SAUGERTIES — Diamond Mills Paper Co. (Typewriter, Copying, Carbon, Silver Tissue & Cigarette), Office: New York City
SCHUYLERVILLE—*American Wood Board Co. (Tag Manila & Special Paper for Glazed Paper & Cardboard, also Ground Wood)
Schuylerville Paper Co. (Book & News)
*United Box Board & Paper Co. (Jute Fibre Boards), Office: New York City

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SKANEATELES — Skaneateles Paper Co. (Boards & Mill Wrappers)
Weeks, F. G. (News, Fibres, Colored Hanging & Specialties)
SKANEATELES FALLS—Saxer Paper Co.
Weeks, Thorne Paper Co.
SOUTH EDWARDS—*Carthage Tissue Paper Mills (Ground Wood), Office: Carthage, N. Y.
STILLWATER—Pemble, Wm. & Sons (Straw Board, Leather Board, Counter Board)
STOCKPORT—Vande Carr, C. R. (Rag & Straw Wrapping & Common Bogus, No. 2 Straw, Cigarette & Carpet Lining)
SYRACUSE—Marcellus Paper Co. (Express Screenings, Mill Wrappers & Hardware). Mills, Marcellus, N. Y.
THOMSON—*Iroquois Pulp & Paper Co. (Hanging & News, also Ground Wood)
TICONDEROGA — *International Paper Co (News, also Ground Wood), Office: New York City
*Ticonderoga Pulp & Paper Co. (Book, Writing, Magazine & Coating, also Soda Fibre), Office: New York City
TONAWANDA — Tonawanda Board & Paper Co. (Solid & Filled Jute Boards, Plain & White Pulp Lined Eureka Boards Straw Chips. Solid & Filled News Board, Solid & Filled Pulp Boards, Box & Barrel Layers, Combination Boards, Patent Coated Boards, Colored Boards. Trunk, Textile, Binders, Cloth, Picture Furniture & Buggy Back Boards)
TROY—Albia Box & Paper Co. (Box Boards. Plain, Combination & Mill Sheet Lined)
Manning, John A. Paper Co. (Rope Manila Paper for Sand Paper, Flour & Cement Sacks & Insulating)
UTICA—Foster Box Board Co. (Box Board)
VALATIE—Richmond, Robert P. (Wrapping Paper)
WALESVILLE—Kenneth & Dutcher.
McKinnon Leather Board Co. (Leather Board)
WALLOOMSAC — Waloomsac Paper Co. (Colored Wall Papers, Ingrains & Specialties)
WARRENSBURG — *Schroon River Pulp & Paper Co. (News & Hanging, also Ground Wood)
WATERFORD — Gilbert, Frank Paper Co (Colored Specialties, Coating, Cover, Interleaving Blotting, Book, Tablet & News)
WATERTOWN — *Aldrich Paper Co. (News Manila & Hanging, also Ground Wood)
Continental Paper Bag Co. (Manila Tissue Roll Toilet & Lightweight Specialties). Office: New York City
*International Paper Co. (News, Manilas also Sulphite Fibre & Ground Wood) Branch of New York City
*Norwood Paper Co. (News & Ground Wood). Mills, Norwood, N. Y
*Raymondville Paper Co. (News, Hanging & Ground Wood). Mills, Norfolk, N. Y.. & Raymondville, N. Y
*Remington, Martin Co. (News, Hanging. Sulphite Fibre & Ground Wood). Mills Norfolk, N. Y.
*St. Regis Paper Co. (News, Ground Wood & Sulphite Fibre). Mills, De Feriet, N.Y.
*Taggart Paper Co. (News, Colored Poster No. 2 Manila, Hanging, Tablet & Ground Wood)
WAWARSING — *Hoornbeck, Jno. C. (Wood Floor)
WILLSBORO—New York & Penna. Co. (Soda Fibre Dry in Rolls, also Paper)

## NORTH CAROLINA.

CANTON—*Champion Fibre Co. (Soda & Sulphite Fibre), Office: Hamilton, O
ROANOKE RAPIDS—Roanoke Fibre Board Co (Document Manila, Corn Middles & Ticket Paper
*Roanoke Rapids Paper Mfg. Co. (Butchers' Manila & Fibre, also Ground Wood)

## OHIO.

AKRON—Phillips, Thos. Co. (Rope, Cement Flour, Feed & Lime Sack Papers, Sand & Sign Paper)
BALTIMORE—Fairfield Paper Co.
BARBERTON — American Straw Board Co. (News Board, Paper Stock Board, White Coated Combination & Pulp Lined Boards), Office: Chicago, Ill
BOSTON—Jaite Co. (Rope Specialties, Cement Flour & Charcoal Bag Papers)
BOSTON HILL—See Cleveland, O.
CEDARVILLE—Hagar Straw Board & Paper Co. (Light Straw Board & Wrapping, Tube Egg Case & Corrugating), Office: Xenia, O.
CHAGRIN FALLS — Adams Bag Co. (Manila Rope for Flour & Cement Sacks), Office; Cleveland, O.
CHILLICOTHE — *Mead Pulp & Paper Co (Book, Lithograph & Writing, Enameline & Ivory Half-Tone in White & Colors). Office: Dayton, O
CINCINNATI—Dayton Folding Box Co. (Straw & Rag Wrapping, Lining & Combination Boards). Mills, Allegan, Mich.
Knerr Board & Paper Co. (Box Boards), Mills, Kokomo, Ind.
CIRCLEVILLE — American Straw Board Co., Office: Chicago, Ill.
CLEVELAND—Adams Bag Co. (Manila Rope for Floors & Cement Sacks)
Cleveland-Akron Bag Co. (Rope, Flour Sack & Manilas)
*Cleveland Paper Mfg. Co. (Book, Colors, Colored & News)
Ohio Box Board Co. (Box Boards, Including Patent Coated, Jute, Manila Lined News, etc.). Mills, Rittman, O.
COSHOCTON — Coshocton Straw Paper Co. (Straw Paper for Corrugating & Straw Wrapping)
CUYAHOGA FALLS—Walsh Paper Co. (Inc.) (Milton, Starch, Macaroni, Tailors' Pattern & Colored Specialties)
DAYTON—Aetna Paper Co. (Bonds, Ledgers. Lining & Flats)
American Straw Board Co., Office: Chicago, Ill.
Knerr Board & Paper Co. (Binders Board), Neave bldg
*Mead Pulp & Paper Co. (Book, Lithograph & Writing, Enameline & Ivory Half-tone in White & Colors). Mills, Chillicothe, O.
Terra Haute Paper Co. (Corrugating, Tube & Egg Case Boards, Straw & Rag Wrapping). Mills, Terra Haute, Ind.
DELPHOS—Hinde & Dauch Paper Co. (Straw Wrapping & Light Straw Board), Office: Sandusky, O.
FRANKLIN — American Writing Paper Co. (Writing), Office: Holyoke, Mass.
Franklin Board & Paper Co. (Patent Coated News, Manila, Lined Chip, Paper Stock. Jute, Pulp & Combination Board)
HAMILTON—Beckett Paper Co. (Colord Covers & Specialties)
Champion Coated Paper Co. (Book, Manila & Cardboard)
*Champion Fibre Co. (Fibre Board & Soda & Sulphite)
Sterling Paper Co. (Writing & Envelope Paper), Office: West Carrollton, O.
LIMA—American Straw Board Co. (Straw Board, Plain, Mill & Sheet Lined; Egg Case & Board Fillers), Office: Chicago, Ill.
LOCKLAND—Carey, Philip Mfg. Co. (Asbestos Mill Board & Roofing Felt)
Fox Paper Co. (Wrapping, Building, No. 2 Butchers' Manila, Express & Carpet Lining, etc.)
Richardson Paper Co. (Wrapping, Roofing & Specialties in Felt, Box & Other Boards)
MASSILLON — Massilon Paper Co. (Straw Wrapping)
Munroe Falls Paper Co. (Carpet Lining, Express, Straw & Rag Wrapping, Building, Absorbent, Fly Paper, Fireworks Paper, Deadening Felt & Roofing)
MIAMISBURG—Miamisburg Paper Co. (Book, News, Envelope, Butchers' & No. 2 Manila)
Ohio Paper Co. (Bottle Wrappers, Carpet Lining & Saturating Felt)
MIDDLETOWN — Crystal Paper Co. (White, Colored & Manila Tissue & Wax Paper)
Gardner, Colin Paper Co. (Patent Coated Box Boards, News Board, Manila Lined Chip Boards, Combination Boards & White Blanks)
Gardner-Harvey Paper Co. (Box Boards, etc.)
National Box Board Co. (Box Boards)
Oglesby, W. B. Paper Co. (Card & Writings)
Sorg, Paul A. Paper Co. (Jute & Manila Rope Specialties, Tissues & White Wax)
Wardlow-Thomas Paper Co. (Rope & Jute Manila)
Wrenn Paper Co. (Blotting Papers, Brands ("Wrenn's Best," "Wrenn's Record," "Mosaic," "Miami," "Antlers," "Enameled," "Royal Colors.")
MUNROE FALLS — Munroe Falls Paper Co. (Carpet Lining, Express & Fireworks Paper, Deadening Felt & Roofing), Office: Massillon, O.
PIQUA — American Straw Board Co. (Straw, Combination & Pulp Lined Board, News & Chip Board), Office: Chicago, Ill.
RITTMAN—Ohio Box Board Co. (Box Boards All Grades, Including Patent Coated, Jute, Manila Lined, News Board), Office: Cleveland, O.
SANDUSKY—Hinde & Dauch Paper Co. (Straw Wrapping, Light Strawboard & Corrugated Paper Specialties)
STEUBENVILLE — *Hartje Paper Mfg. Co. (Manila, News, Fibres, Carpet Lining, Building Papers, Mill Wrappers, Straw, Chip & Pulp Board, Specialties; No. 1 & No. 2 Waterproof Fibres, Butchers' Fibre, Butchers' Waterproof Manila & Rosin-Sized Sheathing, also Ground Wood & Sulphite Fibre), Office: Pittsburg, Pa.
TIFFIN—American Straw Board Co. (Steam-Dried Straw Boards. Plain, Mill Lined & Sheet Lined) Office: Chicago, Ill.
TIPPECANOE CITY—American Straw Board Co. (Steam-Dried Straw Board, Extra Smooth; Match Box Board; Pulp Lined Board) Office: Chicago, Ill.
URBANA — United Box Board & Paper Co. (Straw Board), Office: New York City
WEST CARROLLTON — *Friend Paper Co. (Book & Writing, Sulphite)
Sterling Paper Co. Office: Hamilton, O.
XENIA—Hagar Straw Board & Paper Co. (Light Straw Board, Straw Wrapping, Tube, Egg Case & Corrugated). Mills, Cedarville, O.

## OREGON.

LEBANON—*Lebanon Paper Co. (Straw Wrapping, Fibre & Manila, also Sulphite Fibre), Office: San Francisco, Cal.
OREGON CITY—*Crown-Columbia Pulp & Paper Co. (Manila, Flaxina, Express, Bag, Fruit, Paraffine & Wrapping, also Ground Wood & Sulphite Fibre), Office: San Francisco, Cal.
*Willamette Pulp & Paper Co. (News, also Ground Wood & Sulphite Fibre), Office: San Francisco, Cal.
WARRENDALE—*Crown-Columbia Pulp & Paper Co. (Ground Wood & Paper), Office: San Francisco, Cal.

## PENNSYLVANIA.

AMBLER—Keasbey & Mattison Co. (Asbestos Sheathing & Mill Board)
ATGLEN—Hults, Ellsworth H., Jr. (Binders, Trunk, Box & Carriage Boards), Office: Phila., Pa.
ANSTIN—*Bayless Pulp & Paper Co. (Pure Fibre Papers, also Sulphite Fibre)
AVONDALE—Keating, Jos. M. (Binders & Box Board)
BRIDGEPORT—Bicking Paper Co. (Mill Wrappers & Box Boards), Office: Phila., Pa.
Diamond State Fibre Co. (Fibre Paper), Office: Elsmere, Del.
BUCK RUN—Garrett, C. S. & Son Co. (Hanging, Middle & Fibre), Office: Phila., Pa.
CHESTER—Garrett, Edwin (Fine Tissue, Manila, Colored). Mills, Beaver Valley, Del.
CHESTERVILLE—See Landenburg, Pa.
CHEYNEY — Cullen, Lewis C. (Roofing Felt, Sheathing, Carpet Lining, Plain & Corrugated Deadening Felt & Building) Mills: Williston Inn, Pa.
DOE RUN—Palmer, Willis B. (Binders & Jacquard Boards)
DOWNINGTOWN — Guie, Jas. & Sons (Mill Wrappers)
Robinson, Chas. W. (Binders, Trunk, Air-Dried Straw & Box Boards)
EAST DOWNINGTOWN—Bicking, S. Austin (Est. of) (Wrapping, Rosin-Sized Sheathing & Corrugated Wrapping)
Kerr Paper Mill Co. (Box, Binders & Tar Board)
Miller, Frank P. Paper Co. (Patent Coated, Folding Box, News & Vat-Lined Chip Boards)
ERIE—Hammerhill Paper Co. (Bond, Ledger, Superfine, Linen Laid Writing & Specialties)
**WATSON, H. F. CO. (Asbestos,** Building, Carpet Lining, Manila & Roofing). (See adv. index, end of book)
GLEN MILLS—Glen Mills Paper Co. (Vegetable Parchment, Music, Fibre & All Rag Specialties). Office: Phila., Pa.
HONEY BROOK—See Lyndell, Pa.

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HUNTINGTON MILLS—Koons, J. R. & Son (Straw & Bogus, No. 2 Manila & Specialties, Light Weights for Export a Specialty)

JOHNSONBURG — *Highland Paper Co. (Dry Soda Fibre), Office: Fitchburg, Mass.

*New York & Pennsylvania Co. (Bond, White & Colored, Machine Finished & Super-Calendered Book, Cover, Envelope, Label, Lithograph, Railroad Manila & Writing, also Bleached Sulphite), Office: New York City

LANCASTER—Cecil Paper Co. (Hanging), Office: York, Pa.

LANDENBERG—Lysle, Wilson (Est. of) (Fibre Paper)

LATROBE—Peters Paper Co. (Carpet Lining, Roofing & Sheathing)

LITITZ—Consumers' Box Board & Paper Co. (Tissues, Sheets & Rolls)

LOCK HAVEN — *New York & Pennsylvania Co. (Bag, Express, Fibre, Hardware, Press Board, Writing, Book, Parchment, Cover, Manila, Coating & Specialties, also Soda Fibre), Office: New York City

Lyndell, Lemmon, Sam'l (Air-Dried Straw Boards a Specialty, Cloth & Box Boards)

MODENA — Megarge Paper Mills (Inc.) (All Rag Waterleaf for Parchmentizing & Vulcanizing), Office: Phila., Pa.

MOUNT HOLLY SPRINGS—Mount Holly Paper Co. (Writing)

NEW CASTLE—Dilworth Paper Co. (Glazed & Calendered Rope Express, Hardware, Sugar Bag & Anti-Rust), Office: Pittsburg, Pa.

NEW HOPE — Union Mills Paper Mfg. Co. (Building & Manila Rope for Insulating)

NORTH WATER GAP—*Analomink Paper Co. (Manila, Fibre & Colored Specialties, also Ground Wood & Sulphite Fibre)

NOTTINGHAM — Graves, W. L. (Binders & Box Board)

PENNSBURG—Perkiomen Paper Co. (Binders, Trunk & Box Boards)

PHILADELPHIA—Albany Paper Co. (Plain & Lined Straw Board), Phila. Bourse. Mills: Albany, Ind.

Baeder, Adamson & Co. (Manila for Own Use in Making Sand Paper), Delaware River & R. R.

Bicking Paper Co. (Mill Wrappers & Box Boards), 517 Willow. Mills, Bridgeport, Pa.

Cherry River Paper Co. (Manila, White & Colored Fibres & Specialties; also Sulphate), Land Title bldg. Mills, Richwood, W. Va.

*Dill & Collins Co. (Book & Surface Coated, High Grade Machine Finish, Super-Calendered Book & Surface Coated Papers for Printing from Half-Tone Engravings, Color Plates, Aluminum & Lithographic Stone), 140 N 6th

Empire Paper Co. (Plain & Lined Straw Board), Bourse bldg. Mills, Vincennes, Ind.

Garrett, C. S. & Son Co. (Hanging, Card Middles & Fibre, Machine Finished Book)

Glen Mills Paper Co. (Vegetable Parchment, Music, Fibre and All Rag Specialties), Stephen Girard bldg. Mills, Glen Mills, Pa.

Gloucester Paper Co. (Building, Roofing, Sheathing & Wrapping Papers), Harrison bldg. Mills, Gloucester, N. J.

Hults, Ellsworth H., Jr. (Binders, Trunk, Box & Carriage Boards), 25 N 6th. Mills, Atglen, Pa.

Jessop & Moore Paper Co. (Book Paper & Soda Fibre), 28 S 6th, Wilmington, Del.

Lang, John Paper Co. (Roofing, Saturating & Deadening Felts), 24th & Vine

McDowell Paper Mills (Colored & Hercules Fibre, Drug, Book, Bag, Manifold, Heavy & Light Weight Colored Specialties of All Kinds), Manayunk

Mann, Wm. Co. (Railroad Copying & Manifold Papers), 529 Market. Mills, Lambertville, N. J.

Megarge Paper Mills (Inc.) (All Rag Waterleaf for Parchmentizing & Vulcanizing), Drexel bldg. Mills, Modena, Pa.

Moorhouse, R. T. (White & Colored Machine Finished & Super-Calendered Book, Colored Cover, Manila, Poster, News, Wrapping & Colored Specialties), Bridesburg

*National Metal Edge Box Co. (Jute Folding Box Boards; also Ground Wood), 8th & Willow. Mills, Realsboro, Vt.

*Nixon, Martin & Wm. H. Paper Co. (Book, Colored Specialties & Felt Hangings, also Soda Fibre), 259 Drexel bldg

Philadelphia Paper Mfg. Co. (Box Boards), Manayunk

Pleasant Mills Paper Co. (Rope Manila), 608 Chestnut. Mills, Pleasant Mills, N.J.

PITTSBURG—Dilworth Paper Co. (Glazed & Calendered Rope, Express, Hardware, Sugar Bag & Anti-Rust). Mills, New Castle, Pa.

*Hartje Paper Co. (Manila News, Fibres, Carpet Lining, Building Papers, Mill Wrappers, Straw, Chip & Pulp Boards, Waterproof Fibres, Butchers, Waterproof Manila & Rosin Sized Sheathing; also Ground Wood & Sulphite Fibre). Mills, Steubenville, O.

National Metal Molding Co. (Paper for Insulating Purposes). Mills, Boonton, N. J.

Tarentum Paper Mills Co. (Rope & Express Wrapping). Mills, Tarentum, Pa.

PITTSTON—Rommell, G. B. (Macaroni, Black Green Pattern, Starch, Tobacco & Colored Posters, Dark & Light Blue Papers for Lining Boards, Paper Made in Rolls)

READING—Reading Paper Mills (Book, Plate, Lithograph, Map, Manila & Rope; We Make a Specialty of Lithograph, Map, Plate & Coated Papers, also Rope Papers for Paper Purposes)

ROARING SPRING—*Bare, D. M. Co. (Super-Calendered & Machine Finished Book, Lithograph, White Flats & Mimeograph, also Soda Fibre)

SHEEDER—Sheeder, A. M. (Binders & Trunk Board)

SPRING FORGE—Bare, D. M. Co.

*Glatfelter, P. H. Co. (Machine Finished & Super-Calendered Book & Writing, Label, Bond & Blank Book Papers, Varnish Label Papers, Music, Writing & Blank Book Papers a Specialty; also Soda Fibre)

SWARTHMORE — Franklin Paper Mills Co. (Tissue Specialties) Office: Jersey City, N. J.

TARENTUM—Tarentum Paper Mills Co. (Rope & Express Wrapping), Office: Pittsburg, Pa.

TYRONE—*West Virginia Pulp & Paper Co. (Super-Calendered & Machine Finished Book, Lithograph & Varnish Label, White Writing, Blank Book Tablet, also Soda Fibre), Office: New York City

UPPER DARBY—Garrett, C. S. & Son Co. (Machine Finished Book, Card Middles & Fibre), Office: Phila., Pa.

WILLIAM PENN—Montgomery County—*Hamilton, W. C. & Sons (Book, Writing & Ledger, also Soda Fibre)

WILLIAMSBURG—*West Virginia Pulp & Paper Co. (Writing, Book & Specialties, also Soda Fibre), Office: New York City

WILLISTON INN—Cullen, Lewis Co., Office: Cheyney, Pa.

YORK—Lafean Paper Co. (Sheathing)

Schmidt & Ault Paper Co. (Manila, Sheathing, Carpet Lining & Bogus)

YORK HAVEN—*York Haven Paper Co. (Colored Fibre, Light & Dark Express, Waterproof Building, Roofing & Insulating & "X Loid" Prepared Roofing Paper, also Ground Wood & Sulphite Fibre), Office: New York City

## SOUTH CAROLINA.

HARTSVILLE—*Carolina Fibre Co. (Colored Wrapping & Water Finish Fibre, also Ground Wood & Sulphite Fibre)

## TENNESSEE.

MEMPHIS—Tennessee Fibre Co. (Inc.) (Cotton Hull Fibre, Dry)

## TEXAS.

OAK CLIFF—Fleming, John G. & Sons (Butchers' Manila & Straw, No. 2 Manila, Rag Wrapping, Roofing & Sheathing), P. O. Station A, Dallas, Tex.

ORANGE—*Yellow Pine Paper Mill Co. (Fibre, Hardware, Express, Colored & Bag, also Soda Fibre)

## VERMONT.

BELLOWS FALLS—Blake & Higgins (Manila)

Flint, Wyman & Sons Co. (Manila )

*International Paper Co. (News, Manila, Card Boards, Card Middles & Specialties, also Wood & Sulphite Fibre), Office: New York City

Moore, John T. & Son (Manila & Envelope)

Moore & Thompson Paper Co. (Manila Wrapping, Railroad Manila, Coating, Envelope & Wax)

Robertson Paper Co. (Envelope Manila, Railroad & Telegraph Writing, Parchment Writing & Waxed Manilas & Tissues, All Grades, Weights & Colors in Waxed Papers, Biscuit, Bakers' & Packers' Papers a Specialty)

Rockingham Paper Co.

BENNINGTON—Fillmore & Slade (Manila Tissue)

BRATTLEBORO — Vinton, Wm. H. & Son Blotting & Matrix)

EAST RYEGATE—*Ryegate Paper Co. (News, also Ground Wood)

FITZDALE—Parks Paper Co.

MIDDLEBURY — *Green Mountain Pulp Co. (Ground Wood)

MILTON — *International Paper Co. (Ground Wood)

MORRISVILLE—National Fibre Board Co., Office: Boston, Mass.

NORTH BENNINGTON — Stark Paper Co. (Hanging)

PASSUMPSIC—Passumpsic Fibre Leather Co. (Leather (Heeling) Board)

PUTNEY—Cole, Wm. A. Paper Co. (Manila Tissue & "Eagle Mills" Brand of Tissue Toilet)

Robertson, Wm. (White & Colored Tissues, Cotton Batting Paper, Napkin Paper, Fruit & Bottle Wrappers)

READSBORO—*National Metal Edge Box Co. (Jute Folding Box Boards, also Ground Wood), Office: Phila., Pa.

ST. JOHNSBURY CENTER — Pierce Bros. (Leather Board)

SALISBURY—*Kingsley Bros. (Ground Wood)

SHELDON SPRINGS — *Missisquoi Pulp Co. (Ground Wood)

WELLS RIVER — Adams Paper Co. (Manila Tissue, Anti-Tarnish Tissue & Toilet)

WEST DERBY — *Spaulding Bros. (Ground Wood)

WILDER — *International Paper Co. (High Grade News, also Ground Wood), Office: New York City

WILMINGTON—*Deerfield Lumber Co. (Ground Wood)

## VIRGINIA.

BIG ISLAND — *Bedford Pulp & Paper Co. (Manila, News, Hanging, Drawing & Poster, also Ground Wood), Office: Richmond, Va.

BUENA VISTA—*Columbian Paper Co. (Card for Coating & Lithographing & Flat Writing, also Soda Fibre)

COLEMANS FALLS—Bedford Pulp & Paper Co. (Ground Wood), Office: Richmond, Va.

COVINGTON—*West Virginia Pulp & Paper Co. (Super-Calendered & Machine Finished Book, Lithograph & Varnish Label, also Bleached Sulphite Fibre), Office: New York City

MANCHESTER — Standard Paper Mfg. Co. (See Richmond, Va.)

RICHMOND—Albemarle Paper Mfg. Co. (Blotting Paper Only)

Richmond Paper Mfg. Co. (Blotting, Book & News, "Climax," "Star" & Enameled Blotting)

Standard Paper Mfg. Co. (Blotting Paper Only) Mills: Manchester, Va.

## WASHINGTON.

CAMAS—*Crown-Columbia Pulp & Paper Co. (News, Manila, Bag, Wrapping, Sheathing & Hanging, also Ground Wood & Sulphite Fibre), Office: San Francisco, Cal.

EVERETT — *Everett Pulp & Pulp Co. (Machine Finished & Super-Calendered Book, Varnish Label, Chemical, Railroad Writing, Bond & Cartridge, also Soda Fibre), Office: Lowell, Wash.

## WEST VIRGINIA.

DAVIS — *West Virginia Pulp & Paper Co. (Bleached Sulphite Fibre), Office: New York City)

HALLTOWN — Eyster & Son (Chip Boards, Milled, Lined & Plain)

HARPERS FERRY—*Harpers Ferry Paper Co. (Ground Wood)

*Shenandoah Pulp Co. (Ground Wood)

PARSONS—*Parsons Pulp & Paper Co. (Tag Stock, Silk Wrappers & Specialties, Bleached & Unbleached Sulphites), Office: Phila., Pa.

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PIEDMONT — *West Virginia Pulp & Paper Co. (Ground Wood), Office: New York City
RICHWOOD — Cherry River Paper Co. (Manila, White & Colored Fibres & Specialties, also Sulphite), Office: Phila., Pa.
WELLSBURG—George, S. Co. (Paper & Cement, Flour & Lime Bags)
Harvey Paper Co. (Rope, Jute & Bogus)

## WISCONSIN.

APPLETON — *Appleton Paper & Pulp Co. (Ground Wood)
Fox River Paper Co. (Book, Bond, Linens, Lithograph, Typewriter, Superfine & Fine Writing & Engine-Sized Flats, No. 2 Ledger, Map, Drawing, Folded & Rule)
*Interlake Pulp & Paper Co. ("Mitscherlich" Process Sulphite Fibre & Ground Wood), Office: New York City
Kimberly-Clark Co. (Super-Calendered Book, Manila & Fibre, Envelope, Writing & Railroad Manila), Office: Neenah, Wis.
*Patten Paper Co. (Book & News, also Ground Wood)
Riverside Fibre & Paper Co. (Bonds & Ledgers, also Bleached & Unbleached Sulphite Fibre)
Wisconsin Tissue Paper Co. (Light Weight Papers)
ASHLAND—*Menasha Paper Co. (Sulphite Fibre), Office: Menasha, Wis.
BELOIT—Beloit Box Board Co. (Roofing, Building, Box & Straw Board)
BROKAW — *Wausau Paper Mills Co. (All Grades of Fibre & Manila, also Ground Wood & Sulphite Fibre)
BUCHANAN—See Little Chute, Wis.
COMBINED LOCKS — *Combined Lock Paper Co. (News, also Ground Wood & Sulphite Fibre)
CRIVITZ—*Crivitz Pulp & Paper Co. (Ground Wood)
DE PERE—American Writing Paper Co. (Writing, Loft-Dried & Machine-Dried Bonds, Linens & Ledgers), Office: Holyoke Mass
EAU CLAIRE—*Dells Paper & Pulp Co. (Manilas, Fibre, Novel & News, also Ground Wood & Sulphite Fibre)
GRAND RAPIDS — *Centralia Pulp & Water Power Co. (News, also Ground Wood)
*Consolidated Water Power & Paper Co. (Lining, Novel, Special Print, Hanging Book, Railroad Writing & Specialties, also Ground Wood)
*Grand Rapids Pulp & Paper Co. (News & Hanging, also Ground Wood)
GREEN BAY—*Green Bay Paper & Fibre Co. (Sulphite Fibre)
Hoberg, John Co. (White, Manila & Colored Tissue, Paper Napkins, Fruit Wrappers, Roll & Package Toilet Paper, Cotton Batting, Excelsior Tissue Pads & Printed Tissues & White Sulphite Fibre Papers)
Northern Paper Mills (Toilet Tissue & Catalogue, Light Weight Book, Sanitary Automatic Toilet Service, "Northern Roll," "Northern Oval" & "Pedro" Toilet Papers)
KAUKAUNA—*Kaukauna Fibre Co. (Sulphite Fibre)
*Lindauer Pulp Co. (Ground Wood)
*Outagamie Paper Co. (No. 1 Rag Print, also Ground Wood)
*Thilmany Pulp & Paper Co. (Tissue, Poster, Catalogue, Pattern, Cover & Wrapping, also Ground Wood)
*Union Bag & Paper Co. (Manila & Bag Paper, also Ground Wood), Office: New York City
KIMBERLY — *Kimberly-Clark Co. (Book & Wrapping, also Sulphite Fibre), Office: Neenah, Wis.
LADYSMITH — *Menasha Paper Co. (News, Manila & Catalogues, also Ground Wood), Office: Menasha, Wis.
LITTLE CHUTE — *Little Chute Pulp Co. (Ground Wood)
MARINETTE—*Marinette & Menominee Paper Co. (News & Manila, also Ground Wood & Sulphite Fibre)
MENASHA—Gilbert Paper Co. (Bond, Ledger & High Grade Writing)
*Island Paper Co. (White & Colored Fibre, also Sulphite Fibre)
*Menasha Paper Co. (News, Manila & Catalogue)
Plover Paper Co. (Loft-Dried Bond & Machine Finished Writing, Blue Print, Envelope & Ledgers)
Strange, Jno. Paper Co. (Fibre, Manilas, Poster, Colored Specialties, Mill Wrappers, Rag & Express)
Whiting, Geo. A. (Book, Colored Laid Writing, Telegraph & Parchment Manila & French Folios, Antique Laid & Egg Shell)
*Wisconsin River Pulp & Paper Co. (News, Hanging & Ground Wood). Mills, Stevens Point, Wis.
MERRILL — *Grandfather's Falls Co. (News, Hanging, Tablet & Novel, also Ground Wood)
*Lindauer Pulp & Mfg. Co. (Ground Wood)
MILWAUKEE—**JOHNS, H. W. - MANville** Co. (Asbestos & Building Felts) (See adv. index, end of book)
NEENAH — Bergstrom Paper Co. (Super-Calendered & Machine Finished Book, Flat, Parchment, Railroad Manila & Cover)
Kimberly-Clark Co. (Colored Fibres, Book, Railroad Manilas & Book)
Neenah Paper Co. (Lithograph, Half-Tone & Loft & Machine-Dried Bonds & Flats)
NEKOOSA — *Nekoosa - Edwards Paper Co. (News, Manila & Fibre, also Ground Wood & Sulphite Fibre)
NIAGARA—*Kimberly-Clark Co. (News & Manila, also Ground Wood & Sulphite Fibre), Office: Neenah, Wis.
OCONTO FALLS—*Falls Mfg. Co. (Manila & Fibre, also Ground Wood & Sulphite Fibre)
*Union Mfg. Co. (Ground Wood)
PARK FALLS—*Flambeau Paper Co. (Hanging, No. 1 News & Novel, also Ground Wood)
RHINELANDER — *Rhinelander Paper Co. (News, also Ground Wood & Sulphite Fibre)
SHAWANO—*Wolf River Paper & Fibre Co. (Fibre & Manila Wrapping, also Ground Wood & Sulphite Fibre)
STEVENS POINT — Plover Paper Co. (Loft-Dried Bond & Machine Finished Writing, Blue Print, Envelope & Ledgers), Office: Menasha, Wis.
*Wisconsin River Paper & Pulp Co. (News & Hanging, also Ground Wood), Office: Menasha, Wis.
STILES—Eldred Anson Co. (Ground Wood)
TOMAHAWK—*Tomahawk Pulp & Paper Co. (Roll News, also Ground Wood)
WAUSAU—Marathon Paper Mills Co. (Fibers, Wrapping & News, etc.)

## 8213— Papers (Gummed)

Ideal Coated Paper Co. (Flat), Brookfield, Mass.
**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)
McLaurin, James D. Co. (Inc.), 63 Park Row, New York
Nashua Gummed & Coated Paper Co., Nashua, N. H.

## 8214— Papers (Rope)

**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)

## 8215— Papers (Stay)

**KNOWLTON, M. D. CO. (Combination &** Manila), Rochester, N. Y. (See adv. index & branch offices, end of book)

## 8216— Papier Mache Mfrs.

**DECORATORS' SUPPLY CO., Archer** av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
De Planque, F. R., 1349 Ridge av, Phila., Pa.
Dini, Geo. L., 497 Atlantic av, Brooklyn, N. Y.
Emmel, Chas. & Rose Co. (Architectural), 383 Albany, Boston, Mass.
Klee, Thomson Co., 329 E 40th New York
Koppe & Steinichen (Architectural), Atlanta, Ga.
Liesum, Geo. & Co., 228 E 24th, New York
Lombard, A. P., 101 Bristol, Boston, Mass.
Milner & Pride, 43 Bristol, Boston, Mass.
Old King Cole Papier Mache Co., Canton, O.
Plastic Relief Mfg Co., 298 N Halsted, Chicago, Ill.
Pride, Willis A., 43 Bristol, Boston, Mass.
Sinnott, Jas. M. & Co., 168 Atlantic av., Brooklyn, N. Y.
Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
Union Fiber Co., Winona, Minn.
Van Malderen, F., Ann & Jumonville, Pittsburg, Pa.
Verpellier, H. E. & Co., 288 Washington, Newark, N. J.
Walter, G. E. Co., 157 E 44th, New York

## 8217— Parallels (Planer)

**Walker, Oakley S. & Co., Worcester, Mass.**

## 8218—Parers (Fruit & Vegetable)

**Bannister, A. F. & Co.** (Fruit), Newark, N. J.
**Boutell Mfg. Co., Rochester, N. Y.**
**Catawissa Specialty Mfg. Co. (Vegetable), Catawissa, Pa.**
**Goodell Co. ("White Mountain," "98 Turntable," "New Lightning," "Bay State," Apple, Potato, etc.), Antrim, N. H.**
**Hamblin & Russell Mfg. Co. (Apple, Potato, etc.), Worcester, Mass.**
Hudson Parer Co. (Apple), Leominster, Mass.
**Imperial Machine Co., Newark, N. J.**
Kelso & Co. (Apple, etc.), 559 W Quincy, Chicago, Ill.
**Livingston Nail Co. (Apple, Potato, etc.),** 512 E 23d, New York
Parker Wire Goods Co. (Hand, Apple, Potato, etc.), Worcester, Mass.
**Phoenix Hardware Mfg. Co., Homer, N. Y.**
Reading Hardware Co. ("78"), Reading, Pa.
Sayre, L. A. & Son (Apple & Peach Rotary Knife), Newark, N. J.
**Sinclair-Scott Co. (Fruit), Baltimore, Md.**
White, Ira F. & Son Co. ("California", Potato, etc., with Eye Extractor), Bloomfield, N. J.

## 8219— Parers (Hoof)

Baer, Alfred J. ("Easy"), Schoenersville, Pa.
Bliss, W. L., South Egremont, Mass.
**BUFFUM TOOL CO. ("Swastika"),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Champion Tool Co. ("Giant", "Champion", "Our Pride"), Meadville, Pa.
Heller Bros. Co., Newark, N. J.
**Leavitt Mfg. Co. ("Samson"), Urbana, Ill.**
Lightning Hoof Shear Co., Wyalusing, Pa.

## 8220— Paris White

(See also Whiting Manufacturers)

**Bradford, Jas. Co.**, Wilmington, Del.
**Knappmann, Wm. & Co., 165 Bway, New York**
Manufacturers' Whiting Co., Phila., Bourse, Phila., Pa.
**Nevins, Samuel Co.**, 109 S 2d, Phila., Pa.
Stickney, Terrell & Co., 31 Milk, Boston, Mass.
Taintor, H. F. Mfg. Co., 2 Rector, New York
Whittaker, W. H., 245 Front, New York

## 8221— Park Furniture

(See Settees, Various Kinds; also Fountains, Vases, Etc.; also Rustic Work; also Swings, Lawn)

## 8221a—Parquet Lac Floor Finish

**INTERIOR HARDWOOD CO., Indianapolis, Ind.** (See adv. index, end of book)

## 8222— Partitions (Flexible)

(See Partitions, Wood Rolling)

## 8223— Partitions (Steel)

**DAHLSTROM METALLIC DOOR CO.** (Hollow Metal), Jamestown, N. Y. (See adv. index & branch offices ,end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)

## 8224—Partitions (Steel Rolling)

**KINNEAR MFG. CO. (Steel), Columbus, O.** (See adv. index & branch offices, end of book)
Rolling Steel Shutter Works, 162 W 27th, New York
**SMITH, F. P. WIRE & IRON WORKS** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**WILSON, JAMES G. MFG. CO., Chief** Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

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## 8224a—Partitions (Stock Room)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)

## 8225—Partitions (Wood Rolling)

Grant Pulley & Hardware Co. ("Flexifold" Horizontal), 3 W 29th, New York
**KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)**
**WILSON, JAMES G. MFG. CO., Chief** Office, 3 W 29th, New York, Mills & Factory: Norfolk, Va. (See adv. index, end of book)

## 8226— Paste

(See also Soldering Paste, Salts & Sticks)

American Hominy Co. (Flour), Indianapolis, Ind
Arabol Mfg. Co. ("Tinnol" Bottlers, Canners, etc.), 100 William, New York
Auburn Soap & Chemical Co. (Emery), Auburn, N. Y.
Bankers' Ink Co. (Library), Kansas City, Mo.
Boettiger & Co. (Plumbers), Erie, Pa.
Buckeye Paste Co. (Carriage Trimmers), Columbus, Ohio
Carter's Ink Co. (Office), Cambridge, Mass.
Chapman & Smith Co. (Almond), 1017 Washington boul, Chicago, Ill.
Clark Paper & Mfg. Co. ("Stek-O"), Rochester, N. Y.
Commercial Paste Co., Columbus, Ohio
Continental Mfg. Co. (Photographers), 330 N 3rd, Phila., Pa.
Crystal Springs Paste Co. (Flour), Boston, Mass.
Davis, Thaddeus Co. (Office), 97 Vandam, New York
Devoe, F. W. & C. T. Raynolds Co. (Photographers), New York
Diamond Paste Co. (All Kinds), Albany, N. Y.
Fort Pitt Oil & Paint Co. (Anti-Rust), Pittsburg, Pa
**FOX, M. EWING & CO. ("Foxpaste,"** in Dry & Powder Form), 240 E 136th, New York. (See adv. index, end of book)
Higgins, Chas. M. & Co. (Office), 271 9th, Brooklyn, N. Y.
Indiana Color & Varnish Co. (Carriage), Evansville, Ind.
Indianapolis Paste Co., Indianapolis, Ind.
Keller, Robt. Ink Co. (Office), 523 Fort, W., Detroit, Mich
Keystone Paste Mfg. Co., 232 N Water, Phila., Pa.
Kleinbeck, C. H. (Caramel), Geneva, Ill.
Levison & Blythe Mfg. Co. (Flour), St Louis, Mo
Michigan Paste & Mfg. Co. ("Perfection"), Detroit, Mich
Minnesota Weatherproof Paste Co. (Calking), Minneapolis, Minn
Monarch Glue Co. ("Monarch"), Cincinnati, O.
National Insulating & Mfg. Co. (Wet, Dry), Industrial bldg, Indianapolis, Ind.
National Paste Co. ("Invincible," Office & Library), Columbus, O.
Nice, Eugene Co. (Hotel), Phila., Pa.
Pomeroy, I. Co., Newark, N. J.
Quill & Co., 436 Aberdeen, Chicago, Ill.
Sanford Mfg. Co. ("Sanford", Office & Library), Congress & Peoria, Chicago, Ill.
San Jose Paste Co., San Jose, Cal.
Silberstein, A. L. (Razor), 476 B'way, New York
Stafford, S. S. (Photographers), 603 Washington, New York
Starbuck, R. N. & Son (Plumbers), Hartford, Conn.
Swearingen, J. C. (Library), 222 Wick, Pittsburg, Pa.
Tacks Mfg. Co. (Bottlers, etc.), Utica, N. Y.
Weis Mfg. Co. (Library), Monroe, Mich.
Wood & Selick (Almond), 36 Hudson, New York
Woodmansee, F. A. ("Woodmansee", Office & Library), Cincinnati, O.

## 8227—Paste (Canners', Etc.)

Arabol Mfg. Co. (Paste Powder & Pate Tinnol), 100 William, New York
Bascom & Co., 1136 W Lake, Chicago, Il.
Burt Labeling Machine Co., Baltimore, Md.
Electric Cleanser Co., Canton, O.
Indianapolis Paste Co., Indianapolis, Ind.
National Gum & Mica Co., 502 W 45th, New York
Tacks Mfg. Co., Utica, N. Y.

## 8228— Paste, Jewelers)

Peerless Mfg. & Sales Co. ("Peerless Putz" for Jewelry & Silverware, etc.), 1011 Chestnut, Phila., Pa.

## 8229— Paste (Plummers')

Starbuck, R. N. & Son, Hartford, Conn.

## 8230—Pasteurizers (Milk, Etc.)

Burrell, D. H. & Co., Little Falls, N. Y.
Climax Machinery Co., Indianapolis, Ind.
Jensen Mfg. Co. ("Peerless"), Topeka, Kan.
Miller Pasteurizing Co., Canton, O.
Reid, A. H. Creamery & Dairy Supply Co. ("Reid"), 69th & Haverford, Phila., Pa.

## 8231—Pattern Making Outfits

Benskin Mfg. Co., Canton, O.
Shanafelt Mfg. Co., Canton, O.
Oliver Machinery Co., Detroit, Mich.

## 8232— Patterns & Models

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Acme Pattern Works (Wood & Metal), Detroit, Mich.
Acme Patterns Works, Buffalo, N. Y.
Adamson Machine Co., Akron, O.
Allen, Geo. R. (Metal or Wooden, for Machine & Casting Work), 500 N 13th, Phila., Pa.
Allison & Lewis (Metal & Wood), Dayton, O.
American Pattern Co., 3336 Market, Phila., Pa.
**AMES, B. C. & CO. (Models & Ex**perimental Work), Waltham, Mass. (See adv. index, end of book)
Arthur Co. (Models Experimental Work), 188 Front, New York
Attwood Brass Works (Metal), Grand Rapids, Mich.
Baltimore Patterns & Model Works (Metal & Wood Models & Patterns), Baltimore, Md.
Bassett Pattern Works (Wood & Metal), 2d & Central av, Cincinnati, O.
Beach, Fred F. (Wood & Metal), Bridgeport, Conn.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Boucher, H. E. Mfg. Co., Front & Fulton, New York
Brantner, Wm. Pattern Works (Inc.) (Wood & Metal Patterns), Buffalo, N. Y.
Bridgeport Fdry. & Machine Co. (Metal), Bridgeport, Conn.
Buckeye Brass Foundry & Pattern Co., Cleveland, O.
Buffalo Gear & Pattern Works (Gear Patterns Cut by Machinery), 20 Elk, Buffalo, N. Y.
Buffalo Pattern Works (Inc.) (Wood & Metal Patterns), Buffalo, N. Y.
Cahill, W. S. Co., Baltimore, Md.
Calhoun Woodworking Co., Houston, Tex.
Canton Malleable Iron Co. (Brass), Canton, O.
Central Pattern & Novelty Co. (Wood & Metals), St. Louis, Mo.
Cincinnati Pattern Works (Wood & Metal), Front & Lawrence, Cincinnati, O.
Cleveland Castings Pattern Co. (Wood), Cleveland, Ohio
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
Clow, Geo. E. & Co. (Brass Patterns), 567 W Wash'n, Chicago, Ill.
Cole Mfg. Co., Lakeport, N. H.
Colson, F. A. Pattern Works (Wood & Metal), Buffalo, N. Y.
Columbia Machine Works & Malleable Iron Co. (Metal), 269 Chestnut, Brooklyn, N. Y.
Cope Pattern Works, Detroit, Mich.
Crooks Pattern Works (Wood & Metal), Columbus, O.
Cushman Pattern & Model Works, Houston, Texas
Dominion Iron Works, Bristol, Va.
Dayton Pattern Works, Dayton, O.
Eastwood Wire Mfg. Co., Belleville, N. J.
Enterprise Mfg. Co., Newburgh, N. Y.
Eynon-Evans Mfg. Co. (Patterns Only), 1519 Clearfield, Phila., Pa.
Flint, Lomax Electric & Mfg. Co., Denver, Colo
Fogg, A. A. & H. G. (Metal Patterns), Meriden, Conn
Forster, John G., Indianapolis, Ind.
Frankham, Wm. (Metal), Canton, O.
Freeman Pattern Works, Toledo, O.
Frisch Bros., Wilmington, Del.
Gardam, Wm. & Son (Inc.), 80 Park pl, New York
Gem City Pattern Works (Wood & Metal), 10-12 S. Canal st., Dayton, O.
Gorning & Luley, St. Louis, Mo.
Graham Mfg. Co. (Wood), Racine, Wis.
Grant Mfg. & Machine Co. (Metal, Experimental, etc.), Bridgeport, Conn.
Hartmann, Malcolm Co., 153 N Jefferson, Chicago, Ill.
Howard Iron Works, Buffalo, N. Y.
Huetter, John A., Indianapolis, Ind.
Hurd & Haggin, 316 Hudson, New York
Huse, W. D. & Sons, Laconia, N. H.
Industrial Pattern & Bronze Co. (Brass & Bronze, Cleveland, O.
Kahl, Fred, Pattern Co. (Wood & Metal Patterns), Detroit, Mich.
Kidder, R. E. (All Sizes), Worcester, Mass.
Knight, W. B. Machinery Co. (Metal), 2025 Lucas av., St. Louis, Mo.
Lipe, C. E. Syracuse, N. Y.
Loeffelholz Co. (Brass), Milwaukee, Wis.
Logan, Edw. Machine Co., Trenton, N. J.
Luzier, T. B. & Son, 479 N 5th, Phila., Pa.
McClure, John C. (Wood), Newark, N. J.
McFarland Foundry & Machine Co., Trenton, N. J.
McNamara-Koster Foundry Co. (Patterns & Models), Indianapolis, Ind.
Mahoning Pattern Co. (All Kinds of Patterns), Youngstown, O.
Mansfield Pattern Works, Mansfield, O.
Medart, Fred., 3535 DeKalb, St. Louis, Mo.
Melvin Bros. Pattern Works, Columbus, O.
Mersfelder Pattern Co. (Metal), Cincinnati, O.
Mummelt, Wolf & Dixon, Hanover, Pa.
Nacke, A. & Son (Metal), 236 S 9th, Philadelphia, Pa.
Neslage, Herman F., St. Louis, Mo.
**NESTOR MFG. CO. (Inc.) 40 W. 13th,** New York. (See adv. index & branch offices, end of book)
Neumann & Alling (Iron & Brass), New Britain, Conn.
New Brunswick Iron Works (Patterns Only), 9 Water, New Brunswick, N. J.
**NIAGARA FALLS METAL STAMP**ing Works (In Metal), Niagara Falls, N. Y. (See adv. index, end of book)
Niemeyer, W. H. & Co., Baltimore, Md.
Noble, Henry A., 203 Dock, Philadelphia, Pa.
Ohio-National Mfg. Co. (Wood & Metal), Chillicothe, Ohio
Ohio Pattern Works (Wood & Metal), 2730 Spring Grove av., Cincinnati, O.
Parker, W. T. Mfg. Co. (Wood & Metal), Springfield, O.
Pauly Bros., Springfield, O.
Phoenix Iron Works, Portland, Ore.
Portland Iron Works, Portland, Ore.
Quincy Pattern Co. (Wood & Metal), Quincy, Ill.
Queen City Pattern Works (Wood & Metal), 315 E. 3d, Cincinnati, O.
Reliance Pattern Works, 3204 Smallman, Pittsburg, Pa.
Reynolds Pattern & Machine Co., Moline, N. Y.
Richmond Pattern & Structural Iron Works (Wood Patterns), Richmond, Va.
Roberts & Norton, Utica, N. Y.
Rudolph, Wm. F. (Models & Experimental Work), 649 N Broad, Phila., Pa.
Sawin, Edward H., Gardner, Mass.
Schmidt, F. L., 11th av & 31st, New York

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Shepard, Amos L. (Models & Metal & Wood Patterns), Plantsville, Conn.
Slack, Ben F. Brass Mfg. Co. (Metal & Wood), Denver, Colo.
Standard Brass Foundry Co. (Brass Patterns).
Standard Pattern Co. (Patterns of All Kinds), Pittsburg, Pa.
Standard Pattern & Mfg. Co., Richmond, Ind.
Stephan & Scheibe, Rochester, N. Y.
Stocklin, W. C. Co., Columbus, Ohio
Stover Mfg. Co. (Metal Patterns), Freeport Ill.
Taylor & Fenn Co. (Models), Hartford, Conn.
Townsend Furnace & Machine Shop Co., Albany, N. Y.
Trenton Machine Specialty Co., Trenton, N. J.
Trenton Pattern Works (Wood), Trenton, N. J.
Trumbull Mfg. Co. (Patterns), Warren, O.
Turner Brass Works (Brass, etc.), Sycamore, Ill.
Twentieth Century Brass Mfg. Co. (Metal), Minneapolis, Minn.
Universal Pattern Works (Wood), Cincinnati, O.
Victor Pattern Works (G. V. Haering), Columbus, Ohio
Walker Bros. Co., Syracuse, N. Y.
Walker & Kyle (Patterns), Wilmington, Del.
Washburn, Lettie R. (Patterns & Models), New Bedford, Mass.
Weller Pattern Co. (Wood & Metal), Quincy, Ill.
Wellman Pattern Supply Co. (Large Patterns for Machines a Specialty), Cleveland, O.
West Side Foundry Co. (Wood & Metal Patterns), Troy, N. Y.
Willamette Iron & Steel Wks., Portland, Ore.
Youngstown Foundry & Machine Co., Youngstown, O.

## Paulins

(See Tents, Contractors')

## 8233—Paulins & Covers (Waterproof)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)

## 8234—Paving Blocks (Asphalt)

Asphalt Block Pavement Co., Toledo, O.
Barrett Mfg. Co., 17 Battery pl, New York
Block & Tile Paving Co., Norristown, Pa.
Bradbury, Frank & Son, West Franklin, Me.
Hastings Pavement Co., Hastings Upon Hudson, N. Y., & 25 Broad, New York
Impervious Product Co., Baltimore, Md.
New Castle Asphalt Block Co., Pittsburg, Pa. Works, New Castle, Pa.
Taylor, Ronald, 520 E 20th, New York
Washington Asphalt Block & Tile Co., S Capital & R, S E, Washington, D. C.

## 8235—Paving Blocks (Cedar)

(See Paving Blocks, Wood)

## 8236—Paving Blocks (Creosoted)

(See Paving Blocks, Wood)

## 8237—Paving Blocks (Fire Clay)

West Virginia Fire Clay Mfg. Co., Pittsburg, Pa.

## 8238—Paving Blocks (Granite)

(See also Granite Producers, Workers & Dealers)

American Granite Co., Milwaukee, Wis.
Anderson, Ola, Concord, N. H.
Bodwell Granite Co., Rockland, Me.
Booth Bros. & Hurricane Isle Granite Co., 208 B'way, New York
Booth & Flinn (Ltd.), 1942 Forbes av, Pittsburg, Pa
Brown, Herbert L. Co., 4th av & 27th, New York
Fletcher, H. E. & Co. (Street, Curbing, etc.), West Chelmsford, Mass.
Flynt, W. N. Granite Co., Monson, Mass.
Guilford & Watersville Granite Co., 3 E Lexington, Baltimore, Md.
Hallowell Granite Works, Hallowell, Me.
Lahy, Thos. Haverhill, Mass.
Leopold, J. & Co., 18 B'way, New York
Montello Granite Co., 59 Clark, Chicago, Ill.
Mount Waldo Granite Works, Frankfort, Me.
**NEW ENGLAND GRANITE WORKS,** Westerly, R. I., & Concord, N. H. (See adv. index, end of book)
Petersburg Granite Co., 3 Lexington, Baltimore, Md.
Peirce, John Co., West Street bldg, New York
**PICTON ISLAND RED GRANITE CO.,** 320 5th av, New York. Quarries, Picton Island, St. Lawrence River, N. Y. (See adv. index, end of book)
Pigeon Hill Granite Co., Pigeon Cove, Mass., & West Lebanon, N. H.
Prout Bros., Quincy, Mass.
**ROCKPORT GRANITE CO., Rockport, Mass.** (See adv. index & branch offices, end of book)
Schneider Granite Co., 2140 De Kalb, St. Louis, Mo. Quarries, Graniteville, Mo.
Skrainka Construction Co., 319 N 4th, St. Louis, Mo.
Southern Granite Co., Wiggins blk., Cincinnati, O., & Lithonia, Ga.
Standard Granite Co., Mount Desert, Me.
Swenson, Jno., Concord, N. H.
Webb Granite & Sonst. Co., Worcester, Mass.
White Granite Co., Long Island City, N. Y. Quarries: Blue Hill, Me.
Winnsboro Granite Co., Charleston & Rion, S. C.
Wisconsin Granite Co., Chamber of Commerce bldg, Chicago, Ill.

## 8239— Paving Blocks (Stone)

Delaware River Quarry & Construction Co. ("Belgian"), Jersey City, N. J.
Kettle River Co., Minneapolis, Minn.
McKiernan & Bergin (Trap), Paterson, N. J.

## Paving Blocks (Vitrified)

(See Brick Manufacturers, Vitrified Paving; Indicated by a Star (*) in Front of Name)

## 8240— Paving Blocks (Wood)

American Crosoting Co. (Creosoted), 95 Liberty, New York. Works: Newark, N. J.
Ayer & Lord Tie Co. (Creosoted), Railway Ex, Chicago, Ill.
Barber Asphalt Paving Co. (Creosoted), Maurer, N. J.
Conway, R. F. Co. (Cedar), Chamber of Commerce bldg, Chicago, Ill.
Jones, W. R. (Cedar), Muskegon, Mich.
Kettle River Co. (Creosoted), Minneapolis, Minn.
Leopold, J. & Co., 18 B'way, New York
Michigan Pipe Co. (Creosoted), Bay City, Mich.
Naugle Pole & Tie Co. (Cedar), 226 La Salle, Chicago, Ill.
Peirce, W. E. & Co., Milford, N. H.
Republic Creosoting Co. ("Kreodone", Creosoted), Indianapolis, Ind.
Southern Wood Creosoting Co. (Creosoted), Atlanta, Ga.
Sterling, W. C. & Son (Cedar), Monroe, Mich.
United States Wood Preserving Co. ("Creo-Resinate" Process), 165 B'way, New York. Works: Perth Amboy, N. J.
Wyckoff Pipe & Creosoting Co. (Creosoted), 50 Church, New York
Yellow Pine Mfg. Ass'n (Creosoted Yellow Pine), St. Louis, Mo.

## Pea Fillers

(See Can Filling Machines)

## Pealers (Fruit, Etc.)

(See Parers, Fruit & Vegetable)

## 8241— Peavies

American Logging Tool Co., 150 Michigan av. Chicago, Ill.
Branch Saw Co., St. Louis, Mo.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Co. (Solid Socket). Evart, Mich.
Evart Tool Co. (Ltd.), Evart, Mich.
Gerlach, Peter Co., Columbus road & Winter. Cleveland, O.
Oshkosh Mfg. Co. (Socket, etc.), Oshkosh, Wis.
Crouty, C. & Co. (Also Peavie Handles). Eldred, Pa.
Warren Axe & Tool Co., Warren, Pa.

## 8242— Pedestals (Radiator)

Atlas Radiator Pedestal Co., Norwich, Conn.
Jennison Plumbing Co. (Adjustable), Fitchburg, Mass.

## 8243—Pedestals (Sun Dial)

Hartmann-Sanders Co., 2155 Elston av, Chicago, Ill.

## 8244— Pencil Timber

Houston & Liggett (Cedar), Lewisburg, Tenn.
Hudson Lumber Co. (Slats), Houston, Tex.

## 8245—Pencils (Chalk, Propelling & Repelling)

**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
**HARDTMUTH, L. & C., 34 E. 23d, New** York. (See adv. index, end of book)

## 8246—Pencils (Copying Ink)

**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)
**HARDTMUTH, L. & CO. ("Koh-I-**Noor," "Mephisto"), 34 E 23d, New York. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi-**cago, Ill. (See adv. index, end of book)

## 8247— Pencils (Drawing)

**DIXON, JOS. CRUCIBLE CO. (For Architects, Draughtsmen, etc.), Jersey City, N.** J. (See adv. index & branch offices, end of book)
**ELLIOTT, B. K. CO., 108 6th, Pitts-**burg, Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)
**HARDTMUTH, L. & CO. ("Koh-I-**Noor"), 34 E 23d, New York. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi-**cago, Ill. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)

**SOLTMANN, E. G.**

(Graphite, also Everything for the Architect, Engineer & Draughting Room), 134 W. 29th, New York. (See adv. index, end of book)

## 8248—Pencils (French Chalk)

Nevins, Saml. Co., 109 S 2d, Phila., Pa.

## 8249— Pencils (Graphite)

**DIXON, JOS. CRUCIBLE CO. ("Dix-**on's" Office & Drawing Pencils), Jersey City, N. J. (See adv. index & branch offices, end of book)

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## 8250— Pencils (Lead)

American Lead Pencil Co., 43 W 4th, New York
Blaisdell Paper Pencil Co. (Paper), Wayne Junction, Phila., Pa.
**BLANCHARD BROS., Inc. (Advertising)**, 308 Main, Davenport, Ia. (See adv. index, end of book)
**DIXON, JOS. CRUCIBLE CO., Jersey City, N. J.** (See adv. index & branch offices, end of book)
Eagle Pencil Co., 377 Broadway, New York
Faber, A. W., Newark, N. J.
Faber, Eberhard, 190 5th av, New York
**HARDTMUTH, L. & CO. ("Koh-I-Noor"), 34 E 23d, New York.** (See adv. index, end of book)

## 8251— Pencils (Lumber)

**DIXON, JOS. CRUCIBLE CO. (Graphite)**, Jersey City, N. J. (See adv. index & branch offices, end of book)

## 8251a—Pencils (Mechanical)

**BLANCHARD BROS., Inc. (Advertising**; Propelling & Repelling; also Drop Lead), 308 Main, Davenport, Ia. (See adv. index, end of book)

## 8252— Pencils (Slate)

**DOGGETT, STANLEY (Artificial), 101** Beekman, New York. (See adv. index, end of book)
Illfelder, B. & Co. (Artificial), 97 Bleecker, New York
Steward, D. M. Mfg. Co. ("Compo."), Chattanooga, Tenn.

## 8253—Pencils (Talc & Soapstone)

Cohutta Talc Co. (Soapstone; also Crayon), Dalton, Ga.
**DIXON, JOS. CRUCIBLE CO., Monmouth & Wayne, Jersey City, N. J.** (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY, 101 Beekman, New York.** (See adv. index, end of book)
Steward, D. M. Mfg. Co., Chattanooga, Tenn.

## 8254—Pencils (Water Color)

**AMERICAN CRAYON CO., Sandusky, O., & Waltham, Mass.** (See adv. index, end of book)

## 8255— Pendants (Wiring)

Cutter, Geo. Co., South Bend, Ind.
Fletcher Mfg. Co. ("Etheridge"), Dayton, O.

## 8256— Penholders

**BLANCHARD BROS., Inc. (Advertising)**, 308 Main, Davenport, Ia. (See adv. index, end of book)

## 8257— Pens (Steel)

Buffalo Pen Co., Buffalo, N. Y.
Estabrook Steel Pen Mfg. Co., Camden, N. J.
Foster, J. T. & Sons, Arlington, N. J.
Mason, W. L. Co. ("Mason's"), Keene, N. H.
Miller Bros. Cutlery Co., Meriden, Conn.
Munroe-Eastwood Pen Co., New Britain, Conn.
Spencerian Pen Co., 349 B'way, New York
Turner & Harrison Pen Mfg. Co., 1211 Spring Garden, Phila., Pa.

## 8258— Penstocks

Atlantic Works, 70 Border, S B, Boston, Mass.
Brennan, John & Co., Detroit, Mich.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Clogston, Luman, Fair Haven, Vt.
Connery & Co., 9th & Master, Phila., Pa.
Dalrymple, Geo. (Wrought Steel), Fair Haven, Vt.
Dillon, D. M., Fitchburg, Mass.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Franklin Boiler Works Co., Green Island, Troy, N. Y.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Holmes, J. H. & Co., Rutland, Vt.
Holthoff Machinery Co., Cudahy, Wis.
Humphrey Machine Co., Keene, N. H.
Hunt, Rodney Machine Co., Orange, Mass.
Keeler, E. Co., Williamsport, Pa.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO., Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Leffel, James & Co. (Inc.), Springfield, O.
Leslie, Elliott & Co., Paterson, N. J.
Lowell Steam Boiler Works (Richard Dobbins, Prop.), Lowell, Mass.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Philadelphia Iron Works, 418 N 18th, Phila.,
Platt Iron Works, Dayton, O. Pa.
Pollock, Wm. B. Co., Youngstown, O.
Poole Engineering & Machine Co. (For Water Wheels), Woodberry Station, Baltimore, Md.
Portland Co., Portland, Me.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Robb Engineering Co. (Inc.), South Framingham, Mass.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Scannell Boiler Works, Lowell, Mass.
Sharon Boiler Works, Sharon, Pa.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
Stafford, Wright, Lawrence, Mass.
**STEARNS, A. T. LUMBER CO. (Wood),** Neponset, Boston, Mass. (See adv. index, end of book)
Stebbings, W. L., Monadnock blk., Chicago, Ill.
Stevens Tank & Tower Co. (Wood), Auburn, Maine
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**THROPP'S, JOHN E. SONS CO., Foot** of Lewis, Trenton, N. J. (See adv. index, end of book)
Tofte Boiler & Sheet Iron Wks., Houston, Tex.
Trump Mfg. Co., Springfield, O.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Walsh Boiler & Iron Works, Springfield, Mass.
Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

## 259—Percolators (Chemical Works)

Stuart & Peterson Co., Burlington, N. J.

## 8260— Percolators (Coffee)

American Electrical Heater Co., Detroit, Mich.
**GENERAL ELECTRIC CO. (Electric)**, Schenectady, N. Y. (See adv. index & branch offices, end of book)
International Silver Co., Meriden, Conn.
Keyes-Davis Co., Ltd., Battle Creek, Mich.
Landers, Frary & Clark, New Britain, Conn.
Manning, Bowman & Co., Meriden, Conn.
New England Enameling Co. (Inc.), Middletown, Conn.
New York Stamping Co. ("Empress"), N 11th & Berry, Brooklyn, N. Y.
Rochester Stamping Co., Rochester, N. Y.
Silver & Co. ("Marion Harland"), 304 Hewes, Brooklyn, N. Y.
Sternau, S. & Co., 305 B'way, New York
Toledo Cooker Co. ("Ideal"), Toledo, O.

## 8261—Percolators (Garbage, Grease, Etc.)

**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)

## 8262—Peroxide of Manganese

American Metal Co., 52 B'way, New York
Bond, Vivian & Co., 68 Beaver, New York

## 8263—Petroleum & Its Products

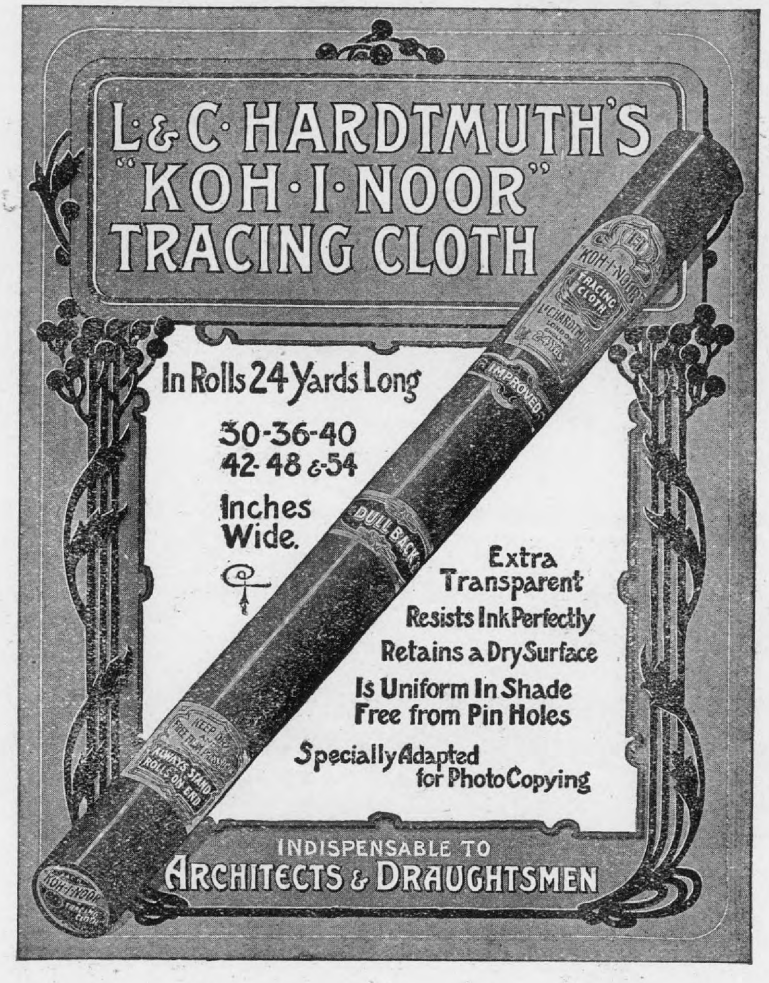
American Oil Works (Ltd.), Titusville, Pa.
Atlantic Refining Co., Bourse, Phila., Pa.
Buffalo Refining Co., Buffalo, N. Y.
Canfield Oil Co., Cleveland, O.
Central Refining Co., Lawrence, Ill.
Chelsea Refining Co., Chelsea, Okla.
Clark, Fred. G. Co., Cleveland, O.
Climax Refining Co., Williamson bldg., Cleveland, O.
Columbia Oil Co., 13 William, New York
Conewango Refining Co. (Crude Oil Only), Warren, Pa.
Continental Refining Co. (Ltd.), Oil City, Pa.
Cornplanter Refining Co., Warren, Pa.
Crew-Levick Co., Land Title bldg., Phila., Pa.
Crystal Oil Works, Oil City, Pa.

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Emlenton Refining Co., Emlenton, Pa.
Empire Oil Works, Oil City, Pa.
Energine Refining Co. ("Energine" Fuel for Automobiles, Gasoline Engines, Naphtha Launches, etc.), Cleveland, O.
Germania Refining Co., Oil City, Pa.
Great Western Oil Co., Cleveland, O.
Gulf Refining Co., Pittsburg, Pa.
High Grade Oil Refining Co., Pittsburg, Pa.
Independent Refining Co. (Ltd.), Oil City, Pa.
Indian Refining Co. (Crude Petroleum), Cincinnati, O.
Indian Territory Illuminating Oil Co., Bartlesville, Okla.
**INDIAN REFINING CO. (Crude Petroleum)**, 17 Battery pl, New York. (See adv. index & branch offices, end of book)
Kansas Co-Operative Refining Co., Chanute, Kansas
Kendall Refining Co., Bradford, Pa.
Miller's, A. D. Sons Co., N S, Pittsburg, Pa.
Mutual Refining Co., Warren, Pa.
National Refining Co., Rose bldg, Cleveland, Ohio
Paragon Refining Co., Toledo, O.
Penn Refining Co., Oil City, Pa.
Petroleum Co., Cincinnati, Ohio
Pittsburg Oil Refining Co., Pittsburg, Pa.
Pure Oil Co., 5th & Chestnut, Phila., Pa.
Sapulpa Refining Co., Sapulpa, Okla.
Seneca Oil Works, Warren, Pa.
Standard Oil Co., 555 W 25th New York
Sun Co., Real Estate Trust bldg., Phila., Pa.
Superior Oil Works, Warren, Pa.
Texas Co., Houston, Tex., & 17 Battery pl, New York
Tide Water Oil Co., 11 B'way, New York
Union Petroleum Co., 135 S 2d, Phila., Pa.
United Refining Co., Warren, Pa.
Vacuum Oil Co., Rochester, N. Y.
Van Tilburg Oil Co., Minneapolis, Minn.
Warren Refining Co., Warren, Pa.
Wilburine Oil Works (Ltd.), Warren, Pa.

## 8264— Pew End Mfrs.

Moore Mfg. Co., Springfield, Mo.
Peirce, W. E. & Co., Milford, N. H.
**STEARNS, A. T. LUMBER CO.**, Neponset, Boston, Mass. (See adv. index, end of book)

## 8265—Pharmaceutical Apparatus

(See Pharmaceutical Machinery: also Chemical Machinery)

## 8265a— Phonograph Horns

Sheip & Vandegrift (Inc.) ("Music Master" Wood), 820 N Lawrence, Phila., Pa.

## Phonographs

(See Talking Machines)

## 8266— Phosphate Rock

Baker, H. J. & Bro. (Belgian, etc.), 100 William, New York
Heller, Hirsch & Co. (Also Ground & Acid Phosphate), 62 William, New York
International Ag'l Corp. (Florida Land Pebble & Tennessee), 165 B'way, New York
Palmetto Phosphate Co., Keyser bldg., Baltimore, Md.
Pierce Phosphate Co., Pierce, Fla.
Powers & Williams (Untreated Ground for Agricultural Purposes), Streator, Ill.
Virginia-Carolina Chemical Co., Richmond, Va.

## 8267— Phosphor Bronze

Crescent Phosphorized Metal Co. ("Crescent"), 2314 Wood, Phila., Pa.
Damascus Bronze Co., N S, Pittsburg, Pa.
Edna Brass Mfg. Co., Cincinnati, O.
Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
**HUNGERFORD, U. T. BRASS & COPPER Co.** (Sheets, Rods, Wire, etc.), 497 Pearl, New York
**MERCHANT & EVANS CO. (Inc.)**, 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
**NEW ERA MFG. CO. (White Phosphoro Bronze)**, Kalamazoo, Mich. (See adv. index, end of book)
Phosphor Bronze Smelting Co., 2200 Washington av, Philadelphia, Pa.
Reeves, Paul S. & Son, 1415 Catharine, Phila., Pa.
Riverside Metal Co., Riverside, N. J.
Shimer, H. M. & Co., 19th & Washington av, Phila., Pa.

## 8268—Phosphor Bronze Sheets

**HUNGERFORD, U. T. BRASS & COPPER Co.**, 497 Pearl, New York
**MERCHANT & EVANS CO. (Inc.)**, 517 Arch, Phila., Pa. (See adv. index & branches offices, end of book)
Phosphor Bronze Smelting Co., 2202 Wash'n av., Philadelphia, Pa.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Riverside Metal Co., Riverside, N. J. Pa.

## 8269— Phosphor Copper

Crescent Phosphorized Metal Co. ("Crescent"), 2314 Wood, Phila., Pa.
Damascus Bronze Co., Pittsburg, Pa.
Lang, R. F. ("Royal"), 31 B'way, New York
Nassau Smelting & Refining Works, 607 W 29th, New York
North American Smelting Co., 9th & Thompson, Phila., Pa.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Richards & Co., Boston, Mass. Pa.
Riverside Metal Co., Riverside, N. J.
Roessler & Hasslacher Chemical Co., 100 William, New York

## 8270— Phosphor Tin

Crescent Phosphorized Metal Co. ("Crescent"), 2314 Wood, Phila., Pa.
Clum & Atkinson, Rochester, N. Y.
Empire Metal Co., Syracuse, N. Y.
Lang, R. F. ("Royal"), 31 B'way, New York
Nassau Smelting & Refining Works, 607 W 29th, New York
**NEW ERA MFG. CO., Kalamazoo,** Mich. (See adv. index, end of book)
North American Smelting Co., 9th & Thompson, Phila., Pa.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Richards & Co., Boston, Mass. Pa.
Syracuse Smelting Works, 28 Dobbin, Brooklyn, N. Y.
Waite, Ranlet & Co., Boston, Mass.

## 8271— Phosphorizers

Bartley, Jonathan Crucible Co., Trenton, N. J.
Bridgeport Crucible Co., Bridgeport, Conn.
**DIXON, JOS. CRUCIBLE CO., Jersey City, N. J.** (See adv. index & branch offices, end of book)
Genesee Metal Co., Rochester, N. Y.
McCullough-Dalzell Crucible Co., Pittsburg, Pa.
**NEW ERA MFG. CO., Kalamazoo,** Mich. (See adv. index, end of book)

## 8271a—Phosphoro (Metallic)

**NEW ERA MFG. CO. (Phosphor Tin Improved)**, Kalamazoo, Mich. (See adv. index, end of book)

## 8272— Phosphorus

Crescent Phosphorized Metal Co., 2314 Wood, Phila., Pa.
General Chemical Co. (For Phosphor Bronze, etc.), 25 Broad, New York
Phospho Chemical Co., Mobile, Ala.

## 8273—Photographers (Architectural)

Chautauqua Photographia Co., Empire bldg. Pittsburg, Pa.
Chicago Architectural Photographing Co. (Arch'l & Engineering), Marquette bldg, Chicago, Ill.
Darling, C. M., 122 W 36th, New York
Farnham, H. A., 936 F, N W, Washington, D. C.
Johnston, R. W., 241 5th av, Pittsburg, Pa.
McCollin, Thos. H. & Co., 54 N 9th, Phila., Pa.
Rockwood Photographer (Inc.), 1550 B'way, New York
Taylor, J. W., 324 Dearborn, Chicago, Ill.

## 8274—Photographers' Automatic Contact Printing Frames

Vote-Berger Co., La Crosse, Wis.

## 8275— Photometers

American Meter Co. (Jet, Slug, Letheby Stile "B," Closed & Portable), 561 W 47th. New York
Connelly Iron Sponge & Governor Co. ("Jones" Jet), 127 Duane, New York
Dwyer Machine Co., Lynn, Mass.
Electric Motor & Equipment Co. ("Deshler-McAllister"), Newark, N. J.
Foote-Pierson & Co., New York
Gurley, W. & L. E., Troy, N. Y.
**LEEDS & NORTHRUP CO. (Lamp** Testing, "Reischsanstalt" Precision & Station), Stenton av, Gtn., Phila., Pa. (See adv. index, end of book)
**QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa.** (See adv. index, end of book)

## 8276— Physical Apparatus

Gaertner, Wm. & Co. (For Laboratories), 5349 Lake av, Chicago, Ill.

## 8277— Pick Mfrs.

(See also Picks, Various Kinds)

American Axe & Tool Co., Glassport, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Colclesser Bros., El Dorado, Pa.
Collins Co., Collinsville, Conn.
Gerber, Louis & Sons, Pittsburg, Pa.
Iron City Tool Works, Ltd., Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Plumb, Fayette R., c Tucker and Trenton av, Phila., Pa.
Pollard, Jos. G., 141 Raymond, Brooklyn, N.Y.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Warwood Tool Co., Wheeling, W. Va.

## 8278— Pickaroons

American Logging Tool Co., 150 Michigan av,
Branch Saw Co., St. Louis, Mo.
Champion Tool & Handle Co., Evart, Mich.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Warren Axe & Tool Co., Warren, Pa.

## 8279— Pickers (Bean)

Bacon Mfg. Co., Pontiac, Mich.
Honeaye Falls Mfg. Co., Honeaye Falls, N. Y.

## 8280—Pickers (Coffee & Peanut)

Lambert Food & Machine Co., Marshall, Mich.

## Pickers (Corn)

(See Pickers & Huskers, Corn)

## 8281— Pickers (Fruit)

**DARBY, EDW. & SONS CO. ("Pennsylvania")**, 239 Arch, Phila, Pa. (See adv. index, end of book)
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Grimshaw, Young & Co., Lowell, Mass.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Henry, John T. Mfg. Co. (Grape Pickers), Hamden, Mass.
Komada Bros., 921 Wood, Phila., Pa.
Lowentraut, P. Mfg. Co. (Fruit Clippers), Newark, N. J.
Phila. Steel & Wire Co. ("Pennsylvania"), 525 Commerce, Phila., Pa.
Strawbridge & Chase Co., 228 Arch, Phila.,
Woods-Sherwood Co., Lowell, Mass. Pa.

## 8282—Pickers & Huskers (Corn)

Independent Harvester Co., Plano, Ill.
**INTERNATIONAL HARVESTER CO.** of America ("Deering", "McCormick"), 230 Harvester bldg Chicago, Ill. Osborne Plant, Auburn, N. Y. (See adv. index & branch offices, end of book)
Taylor Husker & Shedder Co., Joliet, Ill.

## 8283—Pickets (Red Cedar)

Lake Washington Mill Co., Seattle, Wash.

## 8284— Picks (Boiler)

Atha Tool Co., Newark, N. J.
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.

## 8285— Picks (Bung)

Bradley's, G. W. Sons (Inc.), Westport, Conn.

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## 8286— Picks (Clay)

American Shovel & Stamping Co., Lorain, O.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
**Klein-Logan Co., Pittsburg, Pa.**
**Oliver Iron & Steel Co., Pittsburg, Pa.**
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
**Union Drop Forge Co., 358 W Indiana, Chicago, Ill.**
Warwood Tool Co., Wheeling, W. Va.
**Western Tool & Forge Co., Brackenridge, Pa.**
**What Cheer Tool Co. ("What Cheer"), What Cheer, Ia.**

## 8286a— Picks (Coal)

(See Picks, Mining)

## 8286b—Picks (Coal Puncher)

(See Picks, Mining Machine)

## 8287—Picks (Contractors')

**American Axe & Tool Co., Glassport, Pa.**
American Shovel & Stamping Co., Lorain, O.
**Atha Tool Co., Newark, N. J.**
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Iron City Tool Works (Ltd.), Pittsburg, Pa.
**Isle, O. W. & Son, Boston, Mass.**
**Klein-Logan Co., Pittsburg, Pa.**
**Mack & Co. (Solid Edge, "Washoe" Pattern), Rochester, N. Y.**
**Oliver Iron & Steel Co., Pittsburg, Pa.**
**Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.**
**Union Drop Forge Co., 358 W Indiana, Chicago, Ill.**
**Warwood Tool Co., Wheeling, W. Va.**
**Western Tool & Forge Co., Brackenridge, Pa.**

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## 8288— Picks (Drifting)

American Shovel & Stamping Co., Lorain, O.
Beall Bros (Inc.) (Solid Steel), Alton, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Hardsocg Mfg. Co., Ottumwa, Ia.**
**Hardsocg, Martin Co. (Ltd.), N S. Pittsburg,** Iron City Tool Works, Pittsburg, Pa. **Pa.**
**Klein-Logan Co., Pittsburg, Pa.**
Oliver Iron & Steel Co., Pittsburg, Pa.
**Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.**
**Union Drop Forge Co., 358 W Indiana, Chicago, Ill.**
**Warwood Tool Co., Wheeling, W. Va.**

## 8289—Picks (Fireman's Truck)

**Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.**

## 8290— Picks (Hookaroon)

American Logging Tool Co., 150 Michigan av, Oshkosh Mfg. Co., Oskosh, Wis.
Warren Axe & Tool Co. ("Bulldog"), Warren, Pa.

## 8291— Picks (Ice)

**Alaska Freezer Co. (Hand), Winchendon, Miss.**
**ARCADE MFG. CO. (Also Sliding** Pick), Freeport, Ill. (See adv. index, end of book)
Brausdorf-Mueller Co., Elizabeth, N. J.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Browne, W. G. Mfg. Co. ("Browne", Needle Pointed), Kingston, N. Y.
**Browne & Dowd Mfg. Co., Meriden, Conn.**
**BUFFUM TOOL CO. ("Swastika"),** Louisiana, Mo. (See adv. index & branch offices, end of book)
**Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.**
Crank & Carrier Mfg. Co., Elmira, N. Y.
**Deuse, J. S., Chester, Conn.**
**Dover Stamping & Mfg. Co., Cambridge, Mass.**
**Ducharmes & Co., Shelburne Falls, Mass.**
**Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.**
Elmore Tool Mfg. Co., Hartford, Conn.
Erie Specialty Co. ("Walker's", Spring & Solid), Erie, Pa.
Fanner Mfg. Co., Cleveland, O.
Franklin Specialty Co. ("Dandy" Nickel Plated, Hickory Handle), Reading, Pa.
Gifford Wood Co. (Splitting Awl, etc.), Hudson, N. Y.
Gilchrist Co., Newark, N. J.
Griswold Mfg. Co. ("Classic"), Erie, Pa.
Highton, Wm. & Sons, Nashua, N. H.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hills, Edwin, Plainville, Conn.
Hurley, John A. (Inc.) ("Hurwood"), Bridgeport, Conn.
**Knickerbocker Mfg. Co., Belleville, N. J.**
Landers, Frary & Clark (Steel Blade), New Britain, Conn.
**Mayhew, H. H. Co., Shelbourne Falls, Mass.**
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Norlund Mfg. Co., Williamsport, Pa.
Ober Mfg. Co., Chagrin Falls, Ohio
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hardware Co., Homer, N. Y.
Robinson, M. W. Co., 88 White, New York Picks), Rockyhill, Conn.
Rocky Hill Hardware Co. (Awls, Chisels & Picks), Rocky Mill, Conn.
S. & I. Co. (Scratch Awl Pattern), Springfield, Mass.
Sargent & Co., New Haven, Conn.
Sayre, L. A. & Son, Newark, N. J.
Smith, J. Barton Co., Norris & Hope, Phila., Pa.
**SMITH & HEMENWAY CO. ("Indestructible"),** 150 Chambers, New York (See adv. index, end of book)
Snell Mfg. Co., Fiskdale, Mass.
**Stanley Rule & Level Co. ("Hurwood"), New Britain, Conn.**
Steiner Mfg. Co., Erie, Pa.
**Stortz, John & Son (Also Ice Shavers), 210 Vine, Phila., Pa.**
Stover Mfg. Co., Freeport, Ill.
Swan, Jas. Co., Seymour, Conn.
Swift-Waters Co., Berlin, Conn.
Troy Nickel Works (John E. Gaitley, Prop.), ("Alaska" Nickel Plated Picks and Breakers), Albany, N. Y.
Tuck Mfg. Co. (Ice Awls), Brockton, Mass.
White, L. & I. J. Co. (Family), Buffalo, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

## 8292—Picks (Locomotive Coal)

**Dayton Malleable Iron Co. (Malleable Iron, Points Ore Case Hardened), Dayton, O.**
Hubbard & Co., Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

## Picks (Mattock)

(See Mattocks)

## 8293— Picks (Mill)

American Shovel & Stamping Co., Lorain, O.
**Atha Tool Co., Newark, N. J.**
Black, J. B. ("Wm. Beatty & Sons" Cast Steel), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Collins Co., Collinsville, Conn.
**Evansville Tool Works, Evansville, Ind.**
**Falls Mfg. Co., 360 Tremont, San Francisco, Cal.**
Germantown Tool Works, 521 Market, Phila., Pa.
Heartley Machine Variety Iron & Tool Works, Toledo, Ohio
**Higgins, John C. ("Higgins"), 812 W Kinzie, Chicago, Ill.**
Iron City Tool, Co., Pittsburg, Pa.
**Kern, Amandus, Fleetwood, Pa.**
Mack & Co., Rochester, N. Y.
Mixter, J. W. Saw Tool Co. ("Mixter" Mill Stone), Plymouth, Mass
Mohr, E. H., Vera Cruz, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Phillips, F. & Son, Baltimore, Md.
**Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.**
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.
Vogl Tool Co., Kansas City, Mo.
**Warwood Tool Co., Wheeling, W. Va.**

## 8294— Picks (Mining)

**American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York**
American Mining Tool Co. ("Scott", Cutting & Mining), Ottumwa, Iowa
American Shovel & Stamping Co., Lorain, O.
Atha Tool Co., Newark, N. J.
**Beall Bros. (Inc.)** (Solid Steel), Alton, Ill.
**Dayton Malleable Iron Co., Dayton, O.**
**Evansville Tool Works, Evansville, Ind.**
**Fulton Tool Works ("Fulton" Coal), Canal, Fulton, O.**
Gills, Jno. D. Sons, Philipsburg, Pa.
Hardsoeg Mfg. Co., Ottumwa, Iowa
**Hardsocg, Martin Co. (Ltd.), N S, Pittsburg, Pa.**
Hubbard & Co. (Coal, etc.), Pittsburg, Pa.
**Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.**
Jones & Laughlins Steel Co., Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
**Oliver Iron & Steel Co. (Coal, etc.), Pittsburg, Pa.**
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
**Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.**
**Salem Tool Co. ("C. M. Day" Coal), Salem, Ohio**
**Union Drop Forge Co. (Solid Steel Forged), 358 W Indiana, Chicago, Ill.**
**Verona Tool Works, Pittsburg, Pa., & Verona, Pa.**
**Warwood Tool Co., Wheeling, W. Va.**
**What Cheer Tool Co. ("What Cheer" Coal), What Cheer, Ia.**

## 8295—Picks (Mining Machine)

Gerber, Louis & Sons, Pittsburg, Pa.
Harris, Wm. & Son Co. (Puncher Picks), N S. Pittsburg, Pa.
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Valley Forging Co. (Puncher Picks), Verona,
Warwood Tool Co., Wheeling, W. Va. Pa.
**Western Tool & Forge Co., Brackenridge, Pa.**

## 8296— Picks (Poll)

**Beall Bros. (Inc.)** (Solid Steel), Alton, Ill.
**Evansville Tool Works, Evansville, Ind.**
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co., Pittsburg, a.
**Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.**
Oliver Iron & Steel Co., Pittsburg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Warwood Tool Co., Wheeling, W. Va.

## 8297— Picks (Puncher)

(See Picks, Mining Machine)

## 8298— Picks (Railroad)

American Axe & Tool Co. (Adze, Eye, etc.), Glassport, Pa., & 253 B'way, New York
American Shovel & Stamping Co., Lorain, O.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Harvey, H. H., 606 Atlantic av, Boston
Iron City Tool Works, Pittsburg, Pa.
Isele, A. W. & Son, Boston, Mass.
Kalamazoo Railway Supply Co., Kalamazoo,
Klein-Logan Co., Pittsburg Pa. Mich.
**Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.**

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Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Oliver Iron & Steel Co., Pittsburg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
**Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.**
**Union Drop Forge Co. (Forged Steel), 358 W Indiana, Chicago, Ill.**
**Verona Tool Works, Pittsburg, Pa., & Verona, Pa.**
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.

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## 8299— Picks (Stone)

American Shovel & Stamping Co., Lorain, O.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Black, J. B., Chester, Pa.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Isele, A. W. & Son, 51 Pitt, Boston, Mass.

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**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Warwood Tool Co., Wheeling, W. Va.

## 8300— Picks (Surface)

Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Iron City Tool Works, Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Plumb, Fayette R. (Inc.) Frankford, Phila., Pa.
Warwood Tool Co., Wheeling, W. Va.

## 8301— Picks (Tamping)

American Shovel & Stamping Co., Lorain, O.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pitts
Klein-Logan Co., Pittsburg, Pa. burg, Pa.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Union Drop Forgs Co., 358 W Indiana, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.

## 8302—Pick-Ups (Trolley Wire)

Electric Service Supplies Co. ("G-D"), 1027 Filbert, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Ohio Brass Co., Mansfield, O.

## 8302a—Picture Cable (Flexible Moving)

**DRIVER-HARRIS WIRE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)

## 8303— Piezometers

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Simplex Valve & Meter Co., 112 N Broad, Phila., Pa.

## 8304— Pig Aluminum

Birkenstein, S. & Sons, 383 W Ontario, Chicago, Ill.
Vernon Metal Co., 30 Church, New York

## 8305— Pig Copper

(See also Ingots, Copper, Etc.)
American Smelting & Refining Co., 165 B'way, New York
Frankel, J., 81 Fulton, New York
Hendricks Bros., 49 Cliff, New York
Vernon Metal Co., 30 Church, New York

## 8306— Pig Forceps

Leavitt Mfg. Co. ("Dr. Leavitt," "Sampson"), Urbana, Ill.

## Pig Iron Mfrs.

(See Blast Furnaces)

## 8307—Pig Iron & Coke Dealers

(See also Blast Furnaces)

Addy, Matthew & Co., Cincinnati, O.
Baird & West ("Solvay" Coke), Detroit, Mich.
Breen, Wm. J. Co. ("Sloss-Sheffield" Brands), Boston, Mass.
Debevoise-Anderson Co., 95 Liberty, New York
Goodrich, F. A. & Co., Detroit, Mich.
Hanna, M. A. & Co., Cleveland, Ohio
Hillman, J. H. & Son, Pittsburg, Pa.
McKeefrey & Co., Leetonia, Ohio
Matlack & Bates, Phila., Pa.
Mohr, J. J. & Son, Phila., Pa.
Nash, Isham & Co., 55 Liberty, New York
Picklands, Mather & Co., Cleveland, O.
Pilling & Crane, Pittsburg, Pa.
Rogers, Brown & Co., Cincinnati, O.
Samual, Frank, Harrison bldg, Phila., Pa.
Walter-Wallingford & Co., Pittsburg, Pa.

## 8308— Pig Lead

American Smelting & Refining Co., 165 B'way, New York
Granby Mining & Smelting Co., St. Louis, Mo.
New York Metal Selling Co., 2 Rector, New York
St. Joseph Lead Co., 5 Nassau, New York
United States Reduction Co., 410 S Clinton, Chicago, Ill.
United States Smelting, Refining & Mining Co., Boston, Mass.
Vernon Metal Co., 30 Church, New York

## 8309— Pig Zinc

American Smelting & Refining Co., 165 B'way, New York
Penna Smelting Co., Carnegie, Pa.
Sandoval Zinc Co., 410 N Peoria, Chicago, Ill.

## 8310— Pigments

**DOGGETT, STANLEY, 101 Beekman, New York.** (See adv. index, end of book)
Excelsior Mfg. Co., Newport, Del.
Hanna & Andrus Mfg. Co. (Umbers), Chicago, Ill.
International Acheson Graphite Co. (Graphite), Niagara Falls, N. Y.
**Krebs Pigment & Chemical Co., Newport, Del.**
Smith, J. Lee & Co. (Turkey Umber), 19 Jacob, New York
Wetherill, S. P. Co. (White & Brown), 925 Chestnut, Phila., Pa.

## 8310a— Pigments (Rubber)

**DOGGETT, STANLEY, 101 Beekman, New York.** (See adv. index, end of book)

## 8311— Pigs (Nitre)

Pratt Engineering & Machine Co., Atlanta, Ga.

## 8312— Pile Driver Fittings

**NATIONAL HOISTING ENGINE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)
**UNION ELEVATOR & MACHINE CO., 215 W Ontario, Chicago, Ill.** (See adv. index, end of book)
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.

## Pile Drivers (Pneumatic)

(See Pneumatic Pile Drivers)

## 8313—Pile Drivers (Railroad Car)

Browning Engineering Co., Cleveland, O.
Bucyrus Co. (Locomotive), South Milwaukee, Wis.
Industrial Works, Bay City, Mich.
Toledo Foundry & Machine Co., Toledo, O.
Vulcan Iron Works, 327 N Irving av, Chicago, Ill

## 8314— Pile Drivers (Sheet)

**INGERSOLL-RAND CO., 11 B'way, New York.** (See adv. index & branch offices, end of book)
McKiernan-Terry Drill Co., 115 B'way, New York

## Pile Drivers (Steam)

(See Pile Driving Machinery)

## Pile Driving Contractors

(See Dock Builders)

## 8315— Pile Shoes

Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
**MUNDY, J. S., 22 Prospect, Newark, N. J.** (See adv. index & branch offices, end of book)
**NATIONAL HOISTING ENGINE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)
Toledo Foundry & Machine Co., Toledo, O.
**UNION ELEVATOR & MACHINE CO.** Points or Shoes), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.

## 8316— Piles (Concrete)

Carey Construction Co. (Engineers & Contractors), Cleveland, O.
Continental Portland Cement Co., St. Louis, Mo.
Cranford Paving Co., Washington, D. C.
Cummings Structural Concrete Co. (Reinforced), McKees Rocks, Pa.
Foundation Co. (Engineers & Contractors), 115 B'way, New York
Lock Joint Pipe Co. (Cement Lock Joint), 346 B'way, New York
Mac Arthur Concrete Pile & Foundation Co., 11 Pearl, New York
Mess, L. & Co. (Compressed System), San Francisco, Cal.
Monks-Ripley Pile Co. ("Ripley" Combination Concrete & Wood), 82 Beaver, New York
Portland Concrete Pile & Equipment Co., Portland, Ore.
**RAYMOND CONCRETE PILE CO., 140 Cedar, New York.** (See adv. index & branch offices, end of book)
**SIMMONS, JOHN CO. (Pile Casings), 110 Centre, New York.** (See adv. index, end of book)
Simplex Concrete Piling Co. ("Simplex"), 3400 Disston, Phila., Pa.
Underwriters Engineering & Construction Co., 1170 B'way, New York

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## Piles (Creosoted)
(See Creosoting Works)

### 8317—Piles (Ocean Pier, Etc.)
National Tube Co. (Tubular Pipe), Pittsburg, Pa.
**RAYMOND CONCRETE PILE CO.,** 140 Cedar, New York. (See adv. index & branch offices, end of book)

### 8318—Piling (Concrete Sheet)
**RAYMOND CONCRETE PILE CO.,** 140 Cedar, New York. (See adv. index & branch offices, end of book)

### 8319—Piling (Interlocking Sheet Wood)
Norfolk Creosoting Co., Norfolk, Va.

### 8320—Piling (Interlocking Steel)
Carnegie Steel Co. ("Friestedt" Interlocking Channel Bar), Pittsburg, Pa.
Goff, Horner & Co. (Reinforced), Frick bldg., Pittsburg, Pa.
Jackson, Geo. W. (Inc.) ("Jackson's"), 756 W Jackson blvd, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lackawanna Steel Co., Buffalo, N. Y.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
National Interlocking Steel Sheeting Co. ("Nye's" Interlocking Channel Bar), 567 W Washington blvd, Chicago, Ill.
Wemlinger Steel Piling Co., 11 B'way, New York

## Piling Lumber
(See Ties, Poles & Posts)

### 8321— Piling (Sheet Steel)
Carnegie Steel Co. ("United States"), Pittsburg, Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lackawanna Steel Co. (Interlocking), Buffalo, N. Y.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Wemlinger Steel Piling Co., 11 B'way, New York

### 8322— Pinchers
**ARCADE MFG. CO. (Cast Iron),** Freeport, Ill. (See adv. index, end of book)
Atha Tool Co. (Blacksmiths Farriers, etc.), Newark, N. J.
Bridgeport Hardware Mfg. Co. (Carpenters), Bridgeport, Conn.
**BUFFUM TOOL CO. (Blacksmiths',** Carpenters', Farriers', etc.), Louisiana, Mo. (See adv. index & brauch offices, end of book)
Champion Tool Co. ("Maud-S" Farriers', Carpenters & Hardware), Meadville, Pa.
Dicke Tool Co. (Farriers, etc.), Downers Grove, Ill.
Falls Mfg. Co., 360 Fremont, San Francisco, Cal.
Emrich, Phil (Tanners'), Cincinnati, O.
Germantown Tool Works (Blacksmiths & Farriets, etc.), 251 Market, Phila., Pa.
Hardware & Woodenware Mfg. Co. ("Brighton" Shoe, etc.), 693 B'way, New York
Heller Bros. Co. (Blacksmiths & Farriers), Newark, N. J.
Higganum Hardware Co. ("Acme" Carpenters', Shoe. etc.), Higganum, Conn.
Osborne, C. S. & Co. (Saddlers), Harrison, N.J.
Peck, Stow & Wilcox Co. (All Kinds), Southington, Conn.
Sayre, L. A. & Co. (Blacksmiths & Farriers), Newark, N. J.
Smith, H. D. & Co. ("S.," "H. D. S. & Co." Blacksmiths' Shoeing, Carpenters', Farriers', Drop Forged), Plantsville, Conn.
Star Heel Plate Co., Newark, N. J.
Vaughn & Bushnell Mfg. Co. ("V. & B."), Drop Forged, Carpenters', Blacksmiths', Farriers'), 2130 Carroll av, Chicago, Ill.
Washington Cutlery Co. ("Village Blacksmith", Blacksmiths & Farriers), Watertown, Wis.
Washington Tool Co. ("Larson" Combination, etc.), Owatonna, Minn.
White, L. & I. J. Co. (Coopers'), Buffalo, N. Y.

## Pinions
(See Gears & Pinions)

### 8323—Pinions (Car Motor)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

### 8324— Pinions (Cut)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

### 8325—Pinions (Combination Mill)
**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

## Pinions (Electric Railway)
(See Gears & Pinions)

### 8326—Pinions (Made to Order)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO., Fayette & Garrison pl.,** Pittsburg, Pa. (See adv. index, end of book)

### 8327—Pinions (Mine Motor)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO., Fayette & Garrison pl.,** Pittsburg, Pa. (See adv. index, end of book)

### 8328—Pinions (Mining Machine)
**NUTTALL, R. D. CO., Fayette & Garrison pl.,** Pittsburg, Pa. (See adv. index, end of book)

## Pinions (Rawhide)
(See Gears & Pinions, Rawhide)

### 8329—Pins (Air Brake & Knuckle)
American Iron & Steel Mfg. Co., Lebanon, O.
Cambria Steel Co., Johnstown, Pa.
Champion Rivet Co., Cleveland, O.
Hubbard & Co. (Steel), Pittsburg, Pa.
Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
Kansas City Bolt & Nut Co., Kansas City, Mo.
New Castel Forge & Bolt Co., New Castle, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Otis, Spencer Co., 9 Jackson blvd, Chicago, Ill.
Q. M. S. Co. (Drop Forged), Plainfield, N. J.
Scranton Bolt & Nut Co., Scranton, Pa.
Steel Car Forge Co., Pittsburg, Pa.
Valley Forging Co., Verona, Pa.
Western Railway Equipment Co. (& Knuckle), St. Louis, Mo.
Western Tool & Forge Co., Brackenridge, Pa.

### 8330— Pins (Belaying)
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index. end
Jackson, J. S. & Son, Bath, Me. of book)
Laughlin, Thos. Co., Portland, Me.
McMillan's, W. H. Sons, 153 South, New York
Malleable Iron Fittings Co., Branford, Conn.
Marine Hardware & Equipment Co., South Portland, Me.
Merriman Bros., Boston, Mass.
Oshkosh Mfg. Co., Oshkosh, Wis.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.

### 8331— Pins (Bending)
**BERNZ, OTTO, 21 Ashland av, Newark,** N. J. (See adv. index, end of book)
Carver Tool Works, Spring Valley, N. Y.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Manhattan Tool & Supply Co., 82 Walker, New York
Wolverine Brass Works, Grand Rapids, Mich.

### 8332— Pins (Blanket)
Consolidated Safety Pin Co., Bloomfield, N. J.
Kohler, F. E. & Co. ("Ideal"), Canton, O.
Oakville Co., Waterbury, Conn.
Reynolds Mfg. Co., Toledo, O.
Waterbury Mfg. Co., Waterbury, Conn.

### 8333— Pins (Bowling)
(See also Tin-Pins)
Bogert & Hopper, 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Reinschmidt, Peter, Rochester, N. Y.
Smith, Edw. H., 50 Ann, New York

### 8334—Pins (Brass, Dress, Etc.)
American Pin Co., Waterbury, Conn.
Crescent Brass & Pin Co. (Bank & Office Brass), Detroit, Mich.
Howe Mfg. Co. (Also Shawl, Book, Corking & Mourning), Derby, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Oakville Co., Oakville, Conn.
Star Pin Co. (Brass, Mourning, Hair, etc.), Shelton, Conn.

### 8335—Pins (Bricklayers' Line)
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Stortz, John, & Son, 210 Vine, Phila. Pa.

### 8336—Pins (Butchers' Block)
Vaughn & Bushnell ("V. & B." Wrought Steel), 2130 Carroll av, Chicago, Ill.

### 8337— Pins (Channel)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Ristine Co. ("Acme"), The Rookery, Chicago, Ill.

### 8338— Pins (Clothes)
Bogert & Hopper, 162 William, New York
Campbell, Geo. A., East Koy, N. Y.
Clark, J. R. & Co. ("Hoyt's" Spring), Minneapolis, Minn.
Cupples, Sam'l Woodenware Co., St. Louis, Mo.
Demeritt & Palmer Packing Co. ("Hold Fast" Spring), Waterbury, Vt.
Dodge, A. W. Clothespin Mfg. Co., Coudersport, Pa.
Dodge Clothespin Co., Coudersport, Pa.
Escanaba Woodenware Co., Escanaba, Mich.
Estes, E. B. & Sons, 74 Warren, New York
Mann, Lewis M. & Son, West Paris, Me.
National Spring Clip Co. ("Moore's" Spring), Montpelier, Vt.
Peirce, W. E. & Co., Milford, N. H.
Putnam, C. C. & Son ("Putnam" Springs), Putnamville, Vt.
Richards & Bechtold, Bellaire, Mich.
Richmond Cedar Works, Richmond, Va.
Tennant, Sherman (Est. of), Northville, N. Y.
U. S. Clothespin Co. ("U. S. Spring), Montpelier, Vt.
Weston Paper & Mfg. Co., Dayton, O.

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## Pins (Coupling)
(See Links & Pins, Coupling)

## 8339 Pins (Crank)
Braeburn Steel Co., Braeburn, Pa.
Cambria Steel Co., Johnstown, Pa.

## 8340— Pins (Dowel)
(See also Dowels, Various Kinds)
**AMERICAN STEEL & WIRE CO.** (Barbed), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Bogert & Hopper (Wooden), 162 William, New York
Connecticut Box Co., New Haven, Conn., & 30 Church, New York
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Grand Crossing Tack Co., Chicago av & 79th, Chicago, Ill.
Grayling Dowel Co., Grayling, Mich.
Hardware Supply Co., Grand Rapids, Mich.
Igoe Bros. (Barbed), 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Ironton Tool Handle Mfg. Co. (Hickory), Ironton, O.
Kearsarge Peg Co., Bartlett, N. H.
Kokomo Steel & Wire Co. (Barbed), Kokomo, Ind.
Milwaukee Tack Co., Milwaukee, Wis.
**MORSE FRANK W. (Brass), 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)
Norton Iron Works (Barbed), Ashland, Ky.
Oliver Machinery Co. (Brass), Grand Rapids, Mich.
Parker Wire Goods Co., Worcester, Mass.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
Pittsburg Steel Co., Pittsburg, Pa.
Rowe, Henry Mfg. Co. (Wood), Newaygo, Mich.
Shanafelt Mfg. Co. (Brass & Wood), Canton, O.
Stephenson Mfg. Co. (Pointed & Spiral Grooved, etc., Wooden), South Bend, Ind.
Titchener, E. H. & Co., Binghamton, N. Y.
Wellman Pattern Supply Co. (Pattern Makers', Wood & Metal), Cleveland, O.
Winkley Co. (Brass), Detroit, Mich.

## 8341— Pins (Drapery)
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 8342 Pins (Drift)
Atha Tool Co., Newark, N. J.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR WORKS Co., Cleveland, O.** (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Harris, Wm. & Son Co. (Structural Workers), N S, Pittsburg, Pa.
Loveoy Tool Works, 335 W. Ohio, Chicago, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Plumb, Fayette R. (Inc.), F'k'd, Phila., Pa.
Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.
Vulcan Tool Mfg. Co., Quincy, Mass.

## 8344— Pins (Druggists')
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 8345— Pins (Florists')
Triple Sign Co., Inc. (Brass Safety Clips), Connersville, Ind.

## 8343— Pins (High Tension)
Fletcher Mfg. Co., Dayton, Ohio
**GENERAL ELECTRIC CO., Schenectady.** (See adv. index & branch offices, of book)
Metal Finishing Co., Union City, Conn.

## 8346— Pins (Hinge)
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
**NATIONAL-ACME MFG. CO., 7500 Stanton** av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Reed & Prince Mfg. Co., Worcester, Mass.
Stover Mfg. Co., Freeport, Ill.
Western Automatic Machine Screw Co., Elyria, Ohio

## 8346a—Pins (Horse Blanket)
(See Pins, Blanket)

## 8347— Pins (Insulator)
(See Insulator Pins & Brackets)

## 8347a—Pins (Insulator, Expansion)
**STAR EXPANSION BOLT CO.** ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 8348— Pins (King)
**Harris, Wm. & Son Co., N S, Pittsburg, Pa.**

## Pins (Knuckle)
(See Pins, Air Brake & Knuckle)

## 8349—Pins (Manganese Steel)
Manganese Steel Rail Co. (Forged), 30 Church, New York

## 8350—Pins (Picket or Tent)
**NIAGARA FALLS METAL STAMPING** Co. (Picket & Tent), Niagara Falls, N. Y. (See adv. index, end of book)
Oliver Iron & Steel Co. (Straight or Spiral), Pittsburg, Pa.

## 8351—Pins (Piston, Hardened & Ground)
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)

## 8352— Pins (Push)
Moore Push Pin Co. ("Moore"), Phila., Pa.

## 8353— Pins (Rawhide)
Stone, J. B. Co. (Twisted, 12 Inches Long), Grand Rapids, Mich.

## 8354— Pins (Rolling)
Bogert & Hopper (Wooden), 162 William, New York
Cummer Mfg. Co., Cadillac, Mich.
Cupples, Samuel Woodenware Co., St. Louis, Mo.
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Richards & Bechtold, Bellaire, Mich.
Sommer, Jno. Faucet Co. (Wooden), Newark, N. J.

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## 8355— Pins (Safety)
American Pin Co., Waterbury, Conn.
Consolidated Safety Pin Co., Bloomfield, N. J.
Francis Mfg. Co., Niagara Falls, N. Y.
Judson Pin Co., Rochester, N. Y.
Kelly, F. Co., Derby, Conn.
Oakville Co., Waterbury, Conn.

## 8356— Pins (Sash)
Bogert & Hopper (Wooden), 162 William, New York
Estes, E. B. & Sons (Wooden), 75 Warren, New York
Kearsage Peg Co. (Wood), Bartlett, N. H.
Peirce, W. E. & Co. (Wood), Milford, N. H.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co. (Barbed), Worcester, Mass.

## 8357— Pins (Special)
Blake & Johnson Co. (Aluminum & German Silver), Waterbury, Conn.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.

## 8358— Pins (Stove Door)
Corbin Screw Corporation ("Kuhn's"), New New Britain, Conn.
Ohio Nut & Bolt Co., Berea, O.

## 8359— Pins (Taper)
Anthony Screw Co., Worcester, Mass.
Cassady-Fairbanks Mfg. Co., 6126 La Salle, Chicago, Ill.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Corbin Screw Corporation, New Britain, Conn.
Critchley Machine Screw Co., Worcester, Mass.
**DETROIT SCREW WORKS, 348 Franklin,** Detroit, Mich. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**NATIONAL-ACME MFG. CO. (Standard Steel), 7500 Stanton av, S E, Cleveland,** O. (See adv. index & branch offices, end of book)
National Sewing Machine Co., Belvidere, Ill.
Perry-Fay Mfg. Co., Elyria, O.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
St. Louis Screw Co., St. Louis, Mo.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Western Automatic Machine Screw Co., Elyria, Ohio
Worcester Machine Screw Co., Worcester, Mass.

## 8360— Pins (Telegraph)
Bogert & Hopper (Wooden), 162 William, New York
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Hubbard & Co. (Steel), Pittsburg, Pa.
Oliver Iron & Steel Co. (Steel), Pittsburg, Pa.

## 8361— Pins (Turn)
Bogert & Hopper (Plumbers), 162 William, New York
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Estes, E. B. &Sons (Wooden), 74 Warren, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.

## Pipe (Aluminum)
(See Tubing, Aluminum)

## 8362— Pipe (Asphalted)
**KITTOE BOILER & TANK CO. Inc., Canton, O.** (See adv. index, end of book)
National Tube Co., Pittsburg, Pa.

## 8362a—Pipe Ends (Cast Iron Closet)
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)

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## 8363– Pipe Bends & Coils

Albright, Son & Co. (Wrought Iron), Allentown, Pa.
**American Foundry & Construction Co., Pittsburg, Pa.**
American Tube Works, 20 Gold, New York
**Ball & Wood Co. ("Van Stone" Pipe Bends), Elizabeth, N. J.**
Best Mfg. Co. (Bend from ⅛ to 30), Pittsburg, Pa.
Boston Copper Works Co., 84 Marginal, E B, Boston, Mass.
Brunswick Refrigerating Co., New Brunswick,
Casey-Hedges Co., Chattanooga, Tenn. N. J.
Columbus Iron Works Co., Columbus, Ga.
Dame & Townsend Co., Cliff & Fulton, New York
Detroit Shipbuilding Co. (Brass Dept.) (Copper), Detroit, Mich.
**Goetz & Flodin Mfg. Co. (Copper), 1802 Clybourne av, Chicago, Ill.**
Harris, Arthur & Co. (Copper), Chicago, Ill.
Harrisburg Pipe & Pipe Bending Co. (Iron, Copper & Brass), Harrisburg, Pa.
Imperial Brass Mfg. Co. (Brass & Copper for Automobile & Motor Boat), 444 S Jefferson, Chicago, Ill.
Kellogg, M. W. Co., 50 Church, New York
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
**Langsenkamp, F. H., Indianapolis, Ind.**
**Lumsden & Van Stone Co., Boston, Mass.**
Miller Metal Work Co., Jersey City, N. J.
Mitchell, W. K. & Co., Schuylkill av & Ellsworth, Philadelphia, Pa.
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
National Pipe Bending Co. (Brass, Iron & Copper), New Haven, Conn.
National Tube Co., Pittsburg, Pa.
National Valve & Mfg. Co., Pittsburg, Pa.
Philadelphia Pipe Bending Works, 4120 N 5th, Phila., Pa.
Pittsburg Piping & Equipment Co., 34th & Smallmann, Pittsburg, Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & CONstruction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)
Rempe Co. (Wrought Iron), N Sacramento & Carroll avs, Chicago, Ill.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
**SIMMONS PIPE BENDING WORKS,** 110 Centre, New York. Factory, Newark, N. J.
Vogt, Henry Machine Co., Louisville, Ky.
Walworth Construction & Supply Co., 100 Pearl, Boston. Mass.
**WHITLOCK COIL PIPE CO. (Iron,** Brass & Copper), Hartford, Conn. (See adv. index, end of book)

## 8364– Pipe (Block Tin)

(See also Lead Pipe & Sheet & Pig Lead)

Baker Lead Mfg. Co., Worcester, Mass.
**Blatchford, E. W. Co., 230 N Clinton, Chicago,** Ill.
Bogue Lead Co., Denver, Colo.
**Chadwick-Boston Lead Co., Boston, Mass.**
Colwell Lead Co., 109 Lafayette, New York
Consolidated Lead Co., 742 E 14th, New York
Lewis, Jno. T. & Co., 231 S Front, Phila., Pa.
Lissberger, Marks & Son, Long Island City, New York
National Lead Co., 111 B'way, New York
National Lead & Oil Co. of Pa., Pittsburg, Pa.
North American Smelting Co., 9th & Thompson, Phila., Pa.
Raymond Lead Co., 34 N Clinton, Chicago, Ill.
Rochester Lead Works, Rochester, N. Y.
**Selby Smelting & Lead Co., San Francisco, Cal.**
Tatham & Bros., 261 Water, New York
**United Lead Co., 111 B'way, New York**
Windsor Mfg. Co., St. Louis, Mo.

## Pipe (Cast Iron)

(See Cast Iron Pipe Manufacturers for Gas & Water Mains; also Cast Iron Soil Pipe Manufacturers)

## 8365–Pipe (Cast Iron Drain or Culvert)

Galion Iron Works Co., Galion, Ohio
National Cast Iron Drain Pie Co. (Short Length Drain Pipe), 220 B'way, New York

## 8366–Pipe (Cast Iron, High Pressure)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & CONstruction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)

## 8367– Pipe (Cast Steel)

Penn Steel Casting & Machine Co. (From 6 inch Up), Chester, Pa.
Seaboard Steel Casting Co., Chester, Pa.

## 8368– Pipe (Cement)

Pierce Mfg. Co., Bridgeport, Conn.

## Pipe Coils

(See Pipe Bends & Coils)

## 8369–Pipe Covering or Casing (Steam Wyckoff Waterproof)

**WYCKOFF, A. & SON CO., Elmira,** N. Y., & Alexandria, La. (See adv. index, end of book)

## Pipe Coverings

(See Pipe & Boiler Coverings, Various Kinds)

## 8370–Pipe Coverings (Wood)

**WYCKOFF, A. & SON CO. (Waterproof Covering for Underground or Exposed Use), Elmira, N. Y., & Alexandria, La.** (See adv. index, end of book)

## Pipe (Culvert, Metallic)

(See Culverts, Road)

## 8371–Pipe (Drain, Corrugated Steel)

Harry, O. K. Steel Works, Dallas, Tex.

## Pipe (Drive)

(See Pipe & Tube Mills)

## 8372–Pipe (Flange, Flexible Joint)

United States Cast Iron Pipe & Foundry Co., 71 B'way, New York

## 8373–Pipe, Flanged, for High Pressure ("Whitlock" Double Lap Joint)

**WHITLOCK COIL PIPE CO., Hartford, Conn.** (See adv. index, end of book)

## 8374– Pipe Foundry Plants

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 8375– Pipe (Furnace)

Meyer, F. & Bro. Co., Peoria, Ill.

## Pipe (Galvanized Iron)

(See Pipe & Tube Mills)

## 8376– Pipe (Hydraulic)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**AMERICAN SPIRAL PIPE WORKS, W.** 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Best Mfg. Co., Pittsburg, Pa.


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**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
National Tube Co. (For High Pressure Oil & Natural Gas Lines), Pittsburg, Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Power & Mining Machinery Co. (Riveted Steel), Cudahy, Mass.
Reading Iron Co., Reading, Pa.
Union Iron Works, Spokane, Wash.
Youngstown Sheet & Tube Co., Youngstown, O.

## 8377—Pipe (Hydraulic, Steel Riveted)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**AMERICAN SPIRAL PIPE WORKS** ("Taylor's"), W 14th & 48th av, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Pollock, Wm. B. Co., Youngstown, O.
Power & Mining Mach. Co., Cudahy, Wis.
Riter-Conley Mfg. Co., Pittsburg, Pa.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)

## Pipe Joint Paste

(See Cements, Pipe Joint)

## 8378—Pipe Joints (Welded)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 8379— Pipe (Kalameined)

National Tube Co., Pittsburg, Pa.

## Pipe (Lead)

(See Lead Pipe, Sheet & Pig Lead)

## 8380— Pipe (Lead Lined)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Lead Lined Iron Pipe Co. (Iron & Brass), Wakefield, Mass.

## 8381—Pipe (Lead, Tin Lined)

(See also Lead Pipe & Sheet & Pig Lead)
Chadwick-Boston Lead Co., Boston, Mass.
Colwell Lead Co., 109 Lafayette, New York
Consolidated Lead Co., 742 E 14th, New York
Lewis, Jno. T. & Bros. Co., Lafayette bldg, Phila, Pa.
Lissberger, Marks & Co., Long Island City, N. Y.
National Lead Co., 111 B'way, New York
Rochester Lead Works, Rochester, N. Y.
Tatham & Bros., 261 Water, New York
United Lead Co., 111 B'way, New York

## Pipe (Line)

(See Pie & Tube Mills)

## 8382—Pipe (Lock Bar, Steel)

East Jersey Pipe Co. ("Ferguson"), Paterson, N. J.
Fraser Lock Bar Pipe Co., 50 Church, New York
Gillespie, T. A. Co., Pittsburg, Pa.

## 8383—Pipe Lowerers, Lifters & Holders

Crestline Mfg. Co., Crestline, O.
Mark Mfg. Co., Evanston, Ill.
Love, M. A. Mfg. Co., Rockford, Ill.
Trahern Pump Co., Rockford, Ill.
Ward Pump Co., Rockford, Ill.

## 8384—Pipe (Punched & Formed Sheets)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**SHAW, BENJ. F. CO. ("Shaw's"),** Wilmington, Del. (See adv. index, end of book)

## 8386— Pipe (Recessed Joint)

**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)

## 8387—Pipe (Reinforced Concrete)

Lock Joint Pipe Co. ("Meriwether" System of Continuous, 36 to 84 Inches), 165 B'way, New York
Reinforced Concrete Pipe Co., Jackson, Miss.

## 8388—Pipe (Riveted Steel)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**ABENDROTH & ROOT MFG. CO.** (Straight Seam & "Root" Spiral), Newburgh, N. Y. (See adv. index & branch of fices, end of book)
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
Carroll-Porter Boiler & Tank Co., Pittsburg, Pa.
Columbiana Boiler Co., Columbiana, O.
Connery & Co., 9th & Master, Phila., Pa.
Consolidated Pipe Co., Los Angeles, Cal.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsbrg, Pa. (See adv. index & branch offices, end of book)
East Jersey Pipe Co. (Water & Sewer), Paterson, N. J.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gillespie, T. A., 50 Church, New York, & Westinghouse bldg, Pittsburg, Pa.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS (Over** 20 inches Diameter), Warren, Pa. (See adv. index & branch offices, end of book)
Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
Heggie, James G., Joliet, Ill.
Hodge Boiler Works, Boston, Mass.
Honolulu Iron Works Co., Honolulu, Hawaii
Keller, E. Co., Williamsport, Pa.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
King Bridge Co., Cleveland, O.
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index end of book)
Lacy Mfg. Co., Los Angeles, Cal.
Leetonia Boiler Co., Leetonia, O.
Leffel, Jas. & Co. (Inc.), Springfield, O.
Leslie, Elliott & Co., Paterson, N. J.
Long, Walter Mfg. Co., Pittsburg, Pa.
McAleenan Boiler Co., Peoria, Ill.
McNeil, Jas & Bro. Co., Pittsburg, Pa.
Meehan Boiler & Construction Co., Lowellville, O.
**MINNEAPOLIS STEEL & MACHIN-** ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Montague, W. N. & Co., San Francisco, Cal.
Pelton Water Wheel Co., San Francisco, Cal., & 90 West, New York
**PETROLEUM IRON WORKS CO.,** Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Phoenix Iron Works, Meadville, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Power & Mining Machinery Co., Cudahy, Wis
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
San Francisco Bridge Co., San Francisco, Cal., & 1 Park row, New York
**SCAIFE, WM. B. & SONS CO.,** 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Schaw-Batcher Co. Pipe Works, Sacramento, Cal.
Sharon Boiler Works, Sharon, Pa.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Smith, Francis & Co., San Francisco, Cal.
Springfield Boiler & Mfg. Co., Springfield, Ill.
Standard Boiler & Plate Iron Co., Niles, O.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Tofte Boiler & Sheet Iron Works, Houston, Tex.
Trump Mfg. Co., Springfield, O.
Union Iron Works, Spokane, Wash.
Union Iron Works Co., San Francisco, Cal.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
Weigele Riveted Steel Pipe Works, Denver, Colo.
Western Pipe & Steel Co., Los Angeles, Cal.

## Pipe (Seamless Drawn Steel)

(See Tubing, Cold Drawn Seamless Steel)

## 8389—Pipe (Seamless Pontoon)

**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)

## 8390—Pipe (Seamless Rolled Steel)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

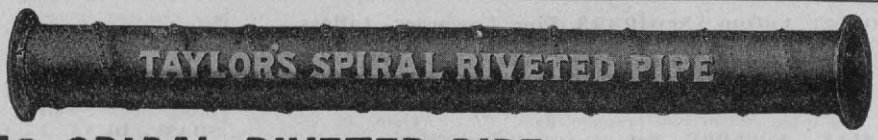
## 8391— Pipe (Second Hand)

Foster, L. B. Co., Pittsburg, Pa.
Greenspon, Jos. & Son, St. Louis, Mo.
Marine Metal & Supply Co., 167 South, New York
Mathes, G. Iron & Metal Co., St. Louis, Mo.
Nathan, Chas. E., 138 Washington, Chicago, Ill.
Ohio Pipe Co., Findlay, O.
Second Hand Pipe & Supply Co., Parkersburg, W. Va.
Starr Pipe Supply Co. (Pipe & Boiler Tubes), 336 Starr, Brooklyn, N. Y.

## 8392— Pipe (Sewer)

American Sewer Pipe Co., Akron, O.
Argillo Works, Carbon Cliff, Ill.
Athens Fire Brick Co., Athens, Tex.
Avon Milling & Mfg. Co., Avon, Ill.
Bannon, P. & Sewer Pipe Co., Louisville, Ky.
Berthelet, H. Sewer Pipe Co. (Cement), Milwaukee, Wis.
Blackmer & Post Pipe Co., St. Louis, Mo.
Boynton, C. W., Sewaren, N. J.
Buckeye Fire Clay Co., Uhrichsville, O.
Buckeye Sewer Pipe Co., Akron, O.
Butte Sewer Pipe & Tile Co., Butte, Mont.
Cannelton Sewer Pipe Co., Cannelton, Ind.
Carnegie Brick & Pottery Co., San Francisco, Cal.
Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.
Chicago Sewer Pipe Co., 79 Dearborn, Chicago, Ill., & Brazil, Ind.
Clark, N. & Sons, 116 Natoma, San Francisco, Cal.
Clawson, L. E. & Co., San Francisco, Cal.
Cowden & Co., Harrisburg, Pa.
Dee, Wm. E. Clay Mfg. Co., 108 La Salle, Chicago, Ill. Works, Mecca, Ind.
Delaware Clay Mfg. Co., Delaware, O.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Denver Sewer Pipe & Clay Co., Continental bldg, Denver, Colo.
Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
East Ohio Sewer Pipe Co., Irondale, O.
Eastern Clay Goods Co., 79 Milk, Boston, Mass.
Edwards Vitrified Brick & Sewer Pipe Co., Albion, Ill.
Eichelberger's, T. D. Sons, Dayton, O.
Evans Clay Mfg. Co., Ulrichsville, O.
Evens & Howard Fire Brick Co. (Up to 42 Inches), 920 Market, St. Louis, Mo.
Federal Clay Mfg. Co., B'way & 23rd, New York
Fiske & Co. (Inc.) (Dealers), 25 Arch, Boston, Mass., & Flat Iron bldg, New York
Georgia Vitrified Brick & Clay Co., Augusta, Ga.
Gladding, McBean & Co., Crocker bldg, San Francisco, Cal.: Works, Lincoln, Cal.
Great Northern Sewer Pipe Co., Empire, O.
Iowa Pipe & Tile Co., Des Moines, Iowa.

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Lehigh Sewer Pipe & Tile Co., Fort Dodge, Ia.
Little Falls Fire Clay Co., Tacoma, Wash. Works: Little Falls, Wash.
Louisville Brick & Tile Co., Louisville, O.
McNutt, Lewis, Brazil, Ind.
Mack Mfg. Co., Land Title bldg, Phila., Pa.; Works, New Cumberland, W. Va.
Macomb Sewer Pipe Co., Macomb, Ill.
Mason City Sewer Pipe Co., Mason City, Ia.
Monmouth Mining & Mfg. Co., Monmouth, Ill.
**NATIONAL FIRE PROOFING CO.,** Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
National Terra Cotta Works, Washington, D.C.
N. Y. State Sewer Pipe Co., Rochester, N. Y.
New York Pottery Co., 949 B'way, New York.
Northwestern Clay Co., New Windsor, Ill.
Ohio River Sewer Pipe Co., Empire, O.
Owensboro Sewer Pipe Co., Owensboro, Ky.
Patton Clay Mfg. Co., Patton, Pa.
Pittsburg-Buffalo Co., Pittsburg, Pa.
Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
Pomona Terra Cotta Co., Pomona, N. C.
Post Pipe Co., Texarkana, Tex.
Red Wing Sewer Pipe Co., Red Wing, Minn.
Robinson Clay Product Co., Akron, O.
Robinson-Graves Sewer Pipe Co., Ulrichsville, Ohio
Rochester Sewer Pipe Co., Rochester, N. Y.
St. Marys Sewer Pipe Co. (3 to 36 inches), St. Marys, Pa.
San Antonio Sewer Pipe Co., San Antonio, Tex.
Shawmut Clay Mfg. Co. ("Shawmut"), Drummond, Pa., & 182 B'way, New York
Southern Sewer Pipe Co., Birmingham, Ala.
Standard Sewer Pipe Co., Rochester, N. Y.
Steiger Terra Cotta & Pottery Works, San Francisco, Calif.
Steven's, H. Sons Co., Macon, Ga.
Stratton Fire Clay Co., Empire, O.
Streator Clay Mfg. Co., Streator, Ill.
Uhl Pottery Co., Evansville, Ind.
Union Sewer Pipe Co. ,McKeesport, Pa.
Webster Bros., Shelbyville, Ill.
West Virginia Fire Clay Mfg. Co. (Fire Clay), Pittsburg, Pa.
White Hall Sewer Pipe & Stoneware Co., White Hall, Ill.
Williams, N. A. Co., Chamber of Commerce bldg, Chicago, Ill.
Withycomb, Philip, North Yamhill, Ore.

## 8393—Pipe (Spiral Lock Seam)

Lamb & Ritchie Co., Cambridge, Mass.

## 8394—Pipe (Spiral Riveted)

**ABENDROTH & ROOT MFG. CO.** (For Pressures up to 300 lbs.), Newburgh, N. Y. (See adv. index & branch offices, end of book)
**AMERICAN SPIRAL PIPE WORKS** ("Taylor's" Steel), W. 14th & 48th av., Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

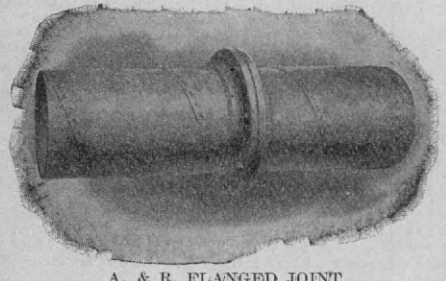
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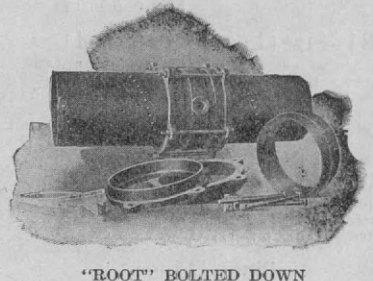
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**NASON MANUFACTURING CO.,** Davis and Crane Streets, Long Island City, N. Y.

## 8395—Pipe Stands (Portable)

**ARMSTRONG MFG. CO., 278 Knowlton**, Bridgeport, Conn. (See adv. index & branch offices, end of book)

## Pipe (Steel)

(See Pipe & Tube Mills)

## 8396—Pipe (Steel Enameled)

Enameled Pipe & Engineering Co. (Acid & Alkali Proof, 2 to 54 Inches), Elyria, O.

## Pipe (Steel Riveted)

(See Pipe, Riveted Steel)

## Pipe Stocks & Dies

(See Stocks & Dies)

## 8397— Pipe (Suction)

Western Railway Equipment ("Linstrom," Non-Freezing), St. Louis, Mo.

## 8398—Pipe Thawing Apparatus

French, S. K., Brooklyn, Mich.

**GENERAL ELECTRIC CO., Schenectady**, N. Y. (See adv. index & branch offices, end of book)

## 8399— Pipe (Tin Lined)

Lead Lined Iron Pipe Co. (Brass), Wakefield, Mass.

## 8400— Pipe (Tuyere)

Albright, Son & Co., Allentown, Pa.
Hartman Co. (For Blast Furnace), 1231 N Front, Phila., Pa.
National Tube Co., Pittsburg, Pa.

## 8401—Pipe (Welded Iron & Steel)

Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.
Kellogg, M. W. Co., 50 Church, New York
**SHAW, BENJ. F. CO., Wilmington**, Del. (See adv. index, end of book)

## 8402— Pipe Welding

Rempe Co. (By Electricity), N Sacramento & Carroll avs, Chicago, Ill.
**SHAW, BENJ. F. CO., Wilmington**, Del. (See adv. index, end of book)

## 8403— Pipe (Wood)

American District Steam Co., North Tonawanda, N. Y.
Eastern Mfg. Co. ("Elmira"), Elmira, N. Y.
Excelsior Wooden Pipe Co. (Continuous Wooden Stave Pipe), San Francisco, Cal.
Michigan Pipe Co. (Improved Wyckoff), Bay City, Mich.
National Wood Pipe Co., Portland, Ore.
Pacific Coast Pipe Co. (Stave), Ballard Station, Seattle, Wash.
Pacific Tank & Pipe Co. ( 2 In. to 12 Ft. in Diameter), San Francisco & Los Angeles, Cal.
Portland Wood Pipe Co. (Machine Banded Continuous Stave), Portland, Ore.
Soderberg, J. A. & Co., Seattle, Wash.
**STEARNS, A. T. LUMBER CO., Neponset**, Boston, Mass. (See adv. index, end of book)
Washington Pipe & Fdry. Co. (Machine, Banded Wooden Stave & Continuous Stave Pressure, etc.), Tacoma, Wash.
Woods, G. R. Sons, Sheffield, Pa.
**WYCKOFF, A. & SON CO., Elmira, N. Y.**, & Alexandria, La. (See adv. index, end of book)
Wyckoff Pipe & Creosoting Co. (Acid Proof), 50 Church, New York

## 8404— Pipe (Wood Fibre)

Fibre Conduit Co., Orangeburg, N. Y.

## 8405—Pipe (Wooden Stave)

**BALTIMORE COOPERAGE CO., THE**, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 8406—Pipe (Wrought Iron, Cement Lined)

American Pipe Mfg. Co. ("Phipps' " Patent), 114 N Broad, Phila., Pa.

## 8407—Pipe (Wrought Iron, Jobbers)

(See also Steam Fitters' Supplies; for Manufacturers see Pipe & Tube Mills)

**CRANE CO. (Est. 1855), 1214 S** Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**OIL WELL SUPPLY CO., 215 Water, Pitts**burg, Pa. (See adv. index, end of book)
**SHAW, BENJ. F. CO., Wilmington**, Del. (See adv. index, end of book)
**SIMMONS, JOHN CO., 110 Centre, New** York (See adv. index, end of book)
**WALSH'S SONS & CO., Harrison**, N. J. (See adv. index, end of book)

## 8407a—Pipe (Wrought Iron Mfrs.)

(See Pipe & Tube Mills)

## 8407b—Pipe (Wrought Steel)

(See Pipe & Tube Mills)

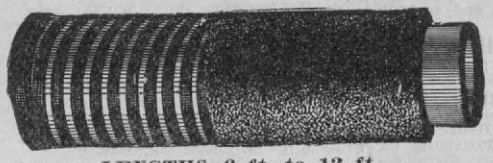
## 8408—Pipe & Boiler Covering Mfrs.

(See Sub-classifications following)

(For Jobbers in these Goods, see Mill & Factory Supplies; also Steam Fitters' Supplies Jobbers)

American Asbestos Co., Minneapolis, Minn.
American Insulating Material Mfg. Co. (Granite Rock Wool), Alexandria, Ind.
Barrett Mfg. Co., 17 Battery pl, New York
Bonsall & Son, 362 Northland av, Buffalo, N. Y.
Boyd, Jas. & Bro., North American bldg, Phila, Pa.
Brunett, Frank O. (Asbestos), 396 Smith, Brooklyn, N. Y.
Carey, Philip Mfg. Co. (Asbestos & Magnesia), Lockland, O.
Central Asbestos & Magnesia Co., 25 W Kinzie, Chicago, Ill.
Chicago Fireproof Covering Co., 27 Michigan av, Chicago, Ill.
Costigan, Jos. P. 184 N 8th, Brooklyn, N. Y.
Covering & Supply Co. (Magnesia-Asbestos), 232 West, New York
Ehret Magnesia Co., Land Title bldg, Phila, Pa. Works, Valley Forge, Pa.
Fossil Metal Co., 2 Cedar, New York
Franklin Mfg. Co. (Asbestos), Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Hardy & Tierney (Asbestos & Hair Felt), 410 E. 23d, New York
Houghton, E. F. & Co. ("Virtue" Sectional Asbestos), 240 Somerset, Phila, Pa.
Illinois Fireproof Covering Co., 210 Illinois, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
**Keasbey, Robert A., 100 N Moore, New York**
Keasbey & Mattison Co., Ambler, Pa.
**Magnesia Covering Co., North American bldg, Philadelphia, Pa.**
Manville Covering Co., Providence, R. I.
**Midland Asbestos Co., Kansas City, Mo.**

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National Insulating & Mfg. Co., Indianapolis, Ind.
New Jersey Asbestos Co., Camden, N. J.
New York Asbestos Mfg. Co. (Asbestos & Magnesia), 80 John, New York
Nightingale & Childs Co., 205 Congress, Boston, Mass.
Norristown Magnesia & Asbestos Co. (Asbestos), etc.), Norristown, Pa.
Nott, W. S. Co., Minneapolis, Minn.
Oil City Asbestos Co., Oil City, Pa.
Racich Asbestos Mfg. Co., 605 W 55th, New York
Sall Mountain Asbestos Mfg. Co., 234 La Salle, Chicago, Ill.
Standard Pipe Covering Co., 3748 E 71st, Cleveland, O.
Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
Union Fibre Co. ("Lith", Cork), Winona, Minn.
**U. S. MINERAL WOOL CO. (Mineral Wool), 140 Cedar, New York. (See adv. index, end of book)**
Valleau, T. M. & Co., 192 West, New York
**WATSON, H. F. CO. (Asbestos), Erie, Pa.** (See adv. index & branch offices, end of book)
**WYCKOFF, A. & SON CO. (Water Proof Covering for Underground or Exposed Use),** Elmira, N. Y., & Alexandria, La. (See adv. index, end of book)

## 8409—Pipe & Boiler Coverings (Air Cell)

Keasbey & Mattison Co. (Wool, Felt, etc.), Ambler, Pa.
National Air Cell Covering Co., 200 Van Brunt, Brooklyn, N. Y.
Norristown Magnesia & Asbestos Co., Norristown, Pa.

## 8410—Pipe & Boiler Coverings (Asbestos)

Acme Asbestos Covering & Supply Co. ("Acme"), 1840 Austin av, Chicago, Ill.
Asbestos Felting Works, 79 Maiden la, New York
American Asbestos Co., Minneapolis, Minn.
Brunett, Frank O., 396 Smith, Brooklyn, N. Y.
**Carey, Philip Mfg. Co., Lockland, O.**
Central Asbestos & Magnesia Co., 25 W Kinzie, Chicago, Ill.
**Chicago Asbestos Mfg. Co., 78 W 22d pl, Chicago, Ill.**
Chicago Fire Proof Covering Co., 27 Michigan av, Chicago, Ill.
Costigan, Jos. P., 184 N 8th, Brooklyn, N. Y.
Covering & Supply Co., 232 West, New York
Ehret Magnesia Mfg. Co., Land Title bldg, Phila, Pa. Works, Valley Forge, Pa.
Federal Asbestos Mfg. Co. (Rope & Wick), Alliance, O.
Florence Asbestos & Covering Co., Paterson, N. J.
Franklin Mfg. Co., Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Hardy & Tierney, 410 E 23d, New York
Higgins, Francis T., 18 Harrison, New York
Houghton, E. F. & Co. ("Virtue"), 240 Somerset, Phila., Pa.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co. (Moulded), Ambler, Pa.
Krez, J. L. Mfg. Co., St. Louis, Mo.
National Air Cell Covering Co., 200 Van Brunt, Brooklyn, N. Y.
New Jersey Asbestos Mfg. Co., Camden, N. J.
New York Asbestos Mfg. Co. (Air Cell & Moulded), 80 John, New York
Norristown Magnesia & Asbestos Co., Norristown, Pa.
Oil City Asbestos Co., Oil City, Pa.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)
Sall Mountain Asbestos Mfg. Co., 234 La Salle, Chicago, Ill.
Standard Pipe Covering Co., 3748 E 71st, Cleveland, O.
Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
**WATSON, H. F. CO. ("Imperial"),** Erie, Pa. (See adv. index & branch offices, end of book)

## 8411—Pipe & Boiler Coverings (Cement)

Acme Asbestos Covering & Supply Co. ("Acme", Asbestos), 1840 Austin av, Chicago, Ill.
Chicago Fire Proof Covering Co., 27 Michigan av, Chicago, Ill.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila, Pa. Works, Valley Forge, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Smith, Thos. F., 20 Cedar, New York
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8412—Pipe & Boiler Coverings (Cork)

Armstrong Cook Co., 23d & River, Pittsburg,
Carey, Philip Mfg. Co., Lockland, O. Pa.
Chicago Fire Proof Covering Co., 27 Michigan av, Chicago, Ill.
Nonpariel Cork Works, 50 Church, New York
Union Fibre Co. ("Lith"), Winona, Minn.

## 8413—Pipe & Boiler Coverings (Felt)

Carey, Philip Mfg. Co., Lockland, O.
Chicago Fire Proof Covering Co., 27 Michigan av, Chicago, Ill.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila, Pa. Works, Valley Forge, Pa.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey, Robt. A. Co., 100 N Moore, New York
National Insulating & Mfg. Co., Indianapolis, Ind.
National Air Cell Covering Co. (Wood Felt), 200 Van Brunt, Brooklyn, N. Y.
Smith, Thos. F., 20 Cedar, New York
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8414—Pipe & Boiler Coverings (Fossil Meal)

Fossil Meal Co. (A. Glesse), 2 Cedar, New York

## 8415—Pipe & Boiler Coverings (Magnesia)

Carey, Philip Mfg. Co., Lockland, O.
Central Asbestos & Magnesia Co., 25 W Kinzie, Chicago, Ill.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila, Pa. Works, Valley Forge, Pa.
Franklin Mfg. Co. ("K. & M."), Franklin, Pa.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co. (Sectional), Ambler, Pa.
New York Asbestos Mfg. Co. (Air Cell & Moulded), 80 John, New York
Norristown Magnesia & Asbestos Co. ("Diamond N."), Norristown, Pa.

## 8416—Pipe & Boiler Coverings Mineral Wool)

American Insulating Material Mfg. Co., Alexandria, Ind.
Columbia Mineral Wool Co., 112 Clark, Chicago, Ill. Works, So. Milwaukee, Wis.
Union Fibre Co., Winona, Minn.
**U. S. MINERAL WOOL CO. (Mineral Wool), 140 Cedar, New York. (See adv. index, end of book)**

## 8417— Pipe & Tube Mills

Albright, Son & Co. (Tuyere Pipe), Allentown, Pa.
**ALLEGHENY STEEL CO. ("Reliance"** Charcoal Iron & Steel Boiler Tubes; "Reliance" Standard Extra Gauge Boiler Tubes), Farmers' Bank bldg, Pittsburg, Pa. Works: Brackenridge, Pa. (See adv. index & branch offices, end of book)
American Steel & Tube Co. (Wrought Iron & Steel Pipe & Tubes), Lorain, O.
**Byers, A. M. & Co. (Lap & Butt Welded Wrought Iron Pipe, Black & Galvanized, 1¼ to 12 inches; also Oil Well Tubing, Castings, etc.),** Pittsburg, Pa.
Central Tube Co. (Wrought Iron Pipe), Pittsburg, Pa.
Coatesville Boiling Mill Co. (Lap Welded Charcoal Iron 1½ to 8 Inches Diameter), Coatesville, Pa.
Cohoes Rolling Mill Co. (Wrought Iron Pipe), Cohoes, N. Y.
Delaware Seamless Tube Co. (Boiler Tubes, etc.), Auburn, Pa.
Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless Steel Boiler Tubes, Automobile Tubes, Stay Tubes, etc.), Detroit, Mich.
Harrisburg Pipe & Pipe Bending Co. (Wrought Iron & Steel Pipe), Harrisburg, Pa.
Keystone Tube Works (Tubing & Tubular Shapes), Pittsburg, Pa.
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
La Belle Iron Works (Black & Galvanized Steam, Gas & Water Pipe, Oil & Gas Line Pipe, Casing, Tubing & Drive Pipe, ⅛ to 12 Inches), Steubenville, O.
Longmead Iron Co. (Black & Galvanized Wrought Iron Pipe), Conshohocken, Pa.
**Mark Mfg. Co. (Black & Galvanized Wrought Iron & Steel Pipe, 1-8 to 20 inches, Boiler** Tubes, Casing, Line & Drive Pipe), Evanston, Ill. Mills, Zanesville, O.
Monongahela Tube Co. (Iron & Steel Boiler Tubes), Ferguson blk., Pittsburg, Pa.
National Tube Co. (Boiler Tubes, Wrought Iron & Steel Pipe for Steam, Gas & Water, Black & Galvanized up to 30 inches, also for Oil Well Casing, Air Line, Brake Beam, Tuyere, Dry Kiln, Ammonia, Drive Signal, Conduit, etc.), Pittsburg, Pa.
Newark Tube & Metal Works (Small Sizes Steel Tubing), Newark, N. J.
Ohio Seamless Tube Co. (Seamless Steel Boiler Tubes & Mechanical Tubing), Shelby, O.
Parkesburg Iron Co. (Charcoal Wrought Iron Pipe & Boiler Tubes), Parkesburg, Pa.
Pittsburg Tube Co. (Bedstead Tubing), Pittsburg, Pa.
Reading Iron Co. (Wrought Iron Pipe, Boiler Tubes, Oil Well Tubing & Casing ⅛ to 12 inches), Reading, Pa.
Republic Iron & Steel Co. (Merchant, Black & Galvanized Line Pipe, Drive Pipe, Tubing & Casing), Pittsburg, Pa.
Seamless Tube Co. of America (Seamless Steel Tubes 1½ to 6 inches; also Boiler Tubes), Pittsburg, Pa.
South Chester Tube Co. (Wrought Iron Pipe), Chester, Pa.
Spang, Chalfant & Co., Inc. (Wrought Iron & Steel Pipe for Water, Gas, Steam & Oil ⅛ to 24 inches & Wrought Iron & Steel Boiler Tubes 1½ to 13 inches), Pittsburg, Pa.
Susquehanna Iron Co. (Lap Welded Wrought Iron Pipe 2 to 10 inches & Butt Welded ½ to 2 inches), Columbia, Pa.
Tyler Tube & Pipe Co. (Knobbled Charcoal Iron & Algerite Iron Boiler Tubes), Washington, Pa.
Wheeling Steel & Iron Co. (Wrought Iron & Steel Pipe, Black & Galvanized ⅛ to 16-Inch. Capacity 800 Tons), Wheeling, W. Va.
Worth Bros. Co. (Charcoal Iron Knobbed Lap-welded Boiler Tubes), Coatesville, Pa.
Youngstown Sheet & Tube Co. (Iron & Steel Pipe, from ⅜ to 12-Inch, Black & Galvanized, Merchant, Oil Well Casing, Tubing, Drive & Line Pipe), Youngstown, O.

## Pipes (Blow)

(See Blow Pipes & Brazing Apparatus; also Exhaust & Blow Piping)

## 8418— Pipes (Corn Cob)

Phoenix-American Pipe Works (Also Wood Pipes), Washington, Mo.

## 8419—Pipes (Flush & Supply)

Blasier, M. E. Mfg. Co., Utica, N. Y.
Dearborn Brass Co., Cedar Rapids, Ia.
**Diamond Mfg. Co., Detroit, Mich.**
Edwardsville Brass Co., Edwardsville, Ill.
Frost Mfg. Co., Kenosha, Wis.
Glauber Brass Mfg. Co., Cleveland, O.
**Haines, Jones & Cadbury, 1136 Ridge av., Phila., Pa.**
Ideal Mfg. Co., Detroit, Mich.
**Milwaukee Brass Mfg. Co. (Bath & Basin Cock Supply Pipes, etc.),** Milwaukee, Wis.
Reed Brass Mfg. Co., 272 Kent av, Brooklyn, N. Y.

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Salem Brass & Iron Mfg. Co., Salem, N. J.
Sanitary Co., Cleveland, O.
Smith, E. C. Mfg. Co., 224 Washington, Chicago, Ill.
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Brass Mfg. Co., Utica, N. Y.
Watrous Co. ("Watrous" White Metal), Fisher bldg., Chicago, Ill.
Wise, J. B., Watertown, N. Y.
Wolverine Brass Works, Grand Rapids, Mich.

### 8420—Piping (High Pressure)

Anderson, Darragh Co., Pittsburg, Pa.
Barker, H. R. Mfg. Co., Lowell, Mass.
Best Mfg. Co., Pittsburg, Pa.
Bowers, W. A. Heating Co., Milwaukee, Wis.
Boyd Equipment Co., 113 Hudson, New York
Braman, Dow & Co., Boston, Mass.
Burlingame, A. Co., Worcester, Mass.
Central Tube Co., Pittsburg, Pa.
Connell, J. D. Iron Wks. Co., New Orleans, La.
Crane Co. (Est. 1855) (Steam), 1214 S Canal Chicago, Ill. (See adv. index & branch offices, end of book)
Crane, W. F., 149 B'way, New York
Downey Heating & Supply Co., Milwaukee, Wis.
Crooks-Kries & Co., Baltimore, Md.
Evans, Almirall & Co., 281 Water, New York
Faith, S. & Co., 2427 Penna. av, Phila., Pa.
GRISCOM-SPENCER CO., 90 West, New York. (See adv. index & branch offices, end of book)
Hart, Franklin B. Jr. & Co., 143 Liberty, New York
Kellogg, M. W. Co. (Van Stone Joint), 50 Church, New York
Kroeschell Bros. Co., 440 W Erie, Chicago, Ill.
Merrill Co., 19 Pearl, Boston, Mass.
Miller, W. H. Co., Columbus, O.
Mitchell, W. K. & Co., Schuykill av & Ellsworth, Phila., Pa.
National Valve & Mfg. Co., Pittsburg, Pa.
Philadelphia Pipe Bending Works, 4120 N 5th, Phila., Pa.
Pittsburg Piping & Equipment Co., 34th & Smallman, Pittsburg, Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pope, Wm. A., 80 E Lake, Chicago, Ill.
Robbins, Gamwell & Co., Pittsfield, Mass.
SHAW, BENJ. F. Co., Wilmington, Del. (See adv. index, end of book)
Skinner Ship Bldg. & Dry Dock Co., Baltimore, Md.
Tullis, Jas. D., 1328 B'way, New York
Washburn & Garfield Mfg. Co., Worcester, Mass.
York Engineering Co. (Inc.) (For Steam, Hydraulic & Electric Plants, etc., District Steam & Underground Piping & Specialty), York, Pa.

### 8421— Piping Systems

PITTSBURG VALVE FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index & branch offices, end of book)

### 8422— Pistons (Engine)

Michigan Automobile Co., Ltd. (Auto Engine), Kalamazoo, Mich.

### 8423—Pistons (Pneumatic Hammer)

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

### 8424— Pitch (Asphalt)

Alcatraz Co., 124 Sansome, San Francisco, Cal.
American Asphaltum & Rubber Co. ("Pioneer"), Harvester bldg, Chicago, Ill.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.


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Carey, Philip Mfg. Co., Lockland, O.
Densmore-Stabler Refining Co., Los Angeles, Cal.
Dunderberg Asphalt Co., 6 Fletcher, New York
Globe Asphalt Co., Pittsburg, Pa.
Hercules Oil Refining Co., Los Angeles, Cal.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Southern Refining Co., Los Angeles, Cal.
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8425– Pitch (Coal Tar)

Carey, Philip Mfg. Co., Lockland, O.
Tidewater Oil & Pipe Co., 11 B'way, New York
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8426–Pitch (Paving & Roofing)

(See also Coal Tar Products)

American Asphaltum & Rubber Co., Harvester bldg, Chicago, Ill.
Amitage Mfg. Co., Richmond, Va.
Barrett Mfg. Co., 17 Battery pl, New York
**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)
Carey, Philip Mfg. Co. (Asbestos Roofing), Lockland, O
Chatfield & Woods Co. (Mfrs.), Cincinnati, O.
Coal Tar Product Co., Smith, Brooklyn, N. Y.
Ford Mfg. Co., 2339 La Salle, Chicago, Ill.
General Roofing Mfg. Co., East St. Louis, Ill.
Impervious Product Co., 213 St. Paul, Baltimore, Md.
Kettle River Co., Minneapolis, Minn.
Lewis, F. J. Mfg. Co., 2513 S Robey, Chicago, Ill.
McClintock & Irvine Co., Pittsburg, Pa.
Martin, W. A. & Co. (Pine), Wilmington, N. C.
Nashville Chemical Co., Nashville, Tenn.
National Coal Tar Co., 17 Battery pl, New York
Schoellkopf, Hartford & Hanna Co., Buffalo, N. Y., & 100 William, New York
Southern Roofing Co., Atlanta, Ga.
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
**Union Roofing & Mfg. Co., St. Paul, Minn.**
**WATSON, H. F. CO., Erie, Pa. (See** adv. index & branch offices, end of book)

## 8427– Pitch (Stearline)

Fuerst Bros. & Co., 2 Stone, New York

## 8428– Pitometers

Pitometer Co. (Portable for Measuring & Recording the Flow of Water in Pipes), 222 B'way, New York

## 8428a– Pivots (Floor)

**BOMMER BROS., 257 Classon av,** Brooklyn, N. Y. (See adv. index, end of book)

## 8429– Planers (Bench)

Bartlett, E. E. ("Federal"), Boston, Mass.
Fay, J. A. & Egan Co. (Hand), Cincinnati, Ohio
Ideal Machine Works ("Ideal" Hand), 255 39th, Brooklyn, N. Y.

## 8430– Planers (Buzz)

(See also Planers, Wood)

American Wood Working Machinery Co., Rochester, N. Y.
Baker Bros., Toledo, Ohio
Berlin Machine Works, Beloit, Wis.
Carey, W. W. Co., Lowell, Mass.
Central Machine Works Co., Minneapolis, Minn.
Colladay, Jos., 626 Race, Phila., Pa.
Cordesman Machine Co., Cincinnati, O.
Crescent Machine Co., Leetonia, O.
Frank Machinery Co., Buffalo, N. Y.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machy. Co., Buffalo, N. Y.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Moshannon Mfg. Co., Phillipsburg, Pa.
Oliver Machinery Co., Grand Rapids, Mich.
Sidney Tool Co., Sidney, O.
Silver Mfg. Co., Salem, O.
Smith, H. B. Machine Co., Smithville, N. J.
Stowell, J. A. Co., Leominster, Mass.
Union Iron Works, Bangor, Me.
United States Machine Co. (Or Hand Jointer), Williamsport, Pa.
White, John A. & Co., Dover, N. H.

## 8431–Planers (Fulting Feed Rods)

Woodward & Powell Planer Co. (For Textile Machines), Worcester, Mass.

## 8432–Planers for Steel Foundries

Wetherill, R. & Co., Chester, Pa.

## 8433–Planers (Frog & Switch)

Fitchburg Machine Works, Fitchburg, Mass.
Flather, Mark Planer Co., Nashua, N. H.
Niles-Bement-Pond Co., 111 B'way, New York
Woodward & Powell Planer Co., Worcester, Mass.

## 8434– Planers (Gear)

Gleason Works (For Spur & Bevel Gear), Rochester, N. Y.

## 8435–Planers (Hand & Foot Power)

Bentel & Margedant Co. (Hand Power), Hamilton, Ohio
Berlin Machine Works, Beloit, Wis.
Porter, C. O. Machinery Co. (Hand), Grand Rapids, Mich.
Shepard Lathe Co., Cincinnati, O.

## 8436– Planers (Heading)

Oram, Jno. S., Cleveland, O.
Trevor Mfg. Co., Lockport, N. Y.

## 8437– Planers (Hoof)

Champion Tool Co. ("Champion"), Meadville, Pa.

## 8438– Planers (Hydraulic)

Burroughs, Chas. Co., Newark, N. J.

## 8439–Planers (Ice, Elevator)

Hiles, C. A. & Co. ("Champion," for Ice Harvesting), 14th & Western av, Chicago, Ill.

## 8439a–Planers (Iron & Steel)

(See Planers, Metal Working)

## 8440–Planers (Locomotive Connecting Rod)

Woodward & Powell Planer Co., Worcester, Mass.

## 8441–Planers (Locomotive Cylinder)

Morton Mfg. Co., Muskegon, Mich.

## 8442–Planers (Metal Working)

American Tool Works Co., Cincinnati, O.
Betts Machine Co., Wilmington, Del.
Chandler Planer Co., Ayer, Mass.
Cincinnati Planer Co. (24-84 Inches), 2235 Buck, Cincinnati, O.
Cincinnati Planer Co. (24-84 Inches), Cincinnati, O.
Cincinnati Shaper Co. (Crank), Cincinnati, O.
Cleveland Planer Works, Cleveland, O.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Fitchburg Machine Works, Fitchburg, Mass.
Flather, Mark Planer Co. (Heavy, etc.), Nashua, N. H.
Gray, G. A. Co., Cincinnati, O.
Hamilton Machine Tool Co. (24 to 96 inches), Hamilton, O.
Harrington, Edwin Son & Co., 17th & Callowhill, Phila., Pa.
Hilles & Jones Co., Wilmington, Del.
Hodgkins, C. A. Co., Marlboro, N. H.
Ideal Machine Works ("Ideal" Hand for Iron), 255 39th, Brooklyn, N. Y.
Knecht Planer Co., Cincinnati, O.
Lane Tool Co., 1196 Hamilton, Cleveland, O.
Morton Mfg. Co. (Portable), Muskegon Heights, Mich.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Ohio Machine Tool Co., Kenton, O.
**PRENTISS TOOL & SUPPLY CO., 115 Liberty,** New York (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Reed, J. B., Cairo, Ill.
Rockford Machine Tool Co. ("Rockford," also Variable Speed Planers), Rockford, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Schneider & Goosmenn Machine Co. (Small), Cincinnati, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila, Pa.
Springfield Mfg. Co. (Vertical Grinding), Bridgeport, Conn.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
Whitney, Baxter D. & Son, Winchendon, Mass.
Wickes Bros., Saginaw, Mich.
Wilson, W. A. Machine Co., Rochester, N. Y.
Woodward & Powell Planer Co., Worcester, Mass.

## 8443– Planers (Mitre)

Miller's Falls Co. ("Rogers"), 28 Warren, New York

## 8444–Planers (Open Side)

Detrick & Harvey Machine Co., Baltimore, Md.
Niles-Bement-Pond Co., 111 B'way, New York

## 8445– Planers (Plate)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington Del. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

## 8446– Planers (Pony)

(See also Planers, Wood)

American Sawmill Machinery Co., Hackettstown, N. J.
American Wood Working Machinery Co., Rochester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Central Machine Wks. Co., Minneapolis, Minn.
Connell & Dengler Machine Co., Rochester, N. Y.
Crescent Machine Co., Leetonia, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Mach'y Co., Buffalo, N. Y.
Howell, R. R. & Co., Minneapolis, Minn.
Lane Mfg. Co., Montpelier, Vt.
Oliver Machinery Co., Grand Rapids, Mich.
Porter, C. O. Mach'y Co., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Sidney Tool Co., Sidney, O.
Union Iron Works, Bangor, Me.

## 8447– Planers (Rail)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

## 8448– Planers (Rotary)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cole Mfg. Co. (Rotary Bed), Lakeport, N. H.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Q. M. S. Co., Plainfield, N. J.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Underwood, H. B. & Co. (Boring Bars), 1023 Hamilton, Phila., Pa.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.

## 8449– Planers (Slate)

(See also Machinery, Slate)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Ruggles Machine Co., Poultney, Vt.

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## Planers (Stave)

(See Barrel Machinery)

## 8450— Planers (Stone)

(See also Machinery, Stone Working)

Birmingham Iron Foundry (Regular Planers with Four Heads, Open Side Planers), Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
Lincoln Iron Works (Gilmour, etc.), Rutland, Vt.
New Albany Mfg. Co., New Albany, Ind.
Patch, F. R. Mfg. Co., Rutland, Vt.

## 8451— Planers (Wood)

American Sawmill Machinery Co., Hacketts-town, N. J.
American Wood Working Machinery Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila, Pa.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Colladay, Jos. O., 653 Race, Philadelphia, Pa.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Crescent Machine Co., Leetonia, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Fisher & Davis Mfg. Co., St. Louis, Mo.
Frank Machinery Co., Buffalo, N. Y.
Gerlach, Peter Co. (Single, Double & Four Sided for Chair, Furniture, Box Board, Staves & Heading, etc.), Cleveland, O.
Greaves, Klusman & Co., Cincinnati, O.
Hall & Brown Woodworking Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Mach'y Co., Buffalo, N. Y.
Howell, R. R. & Co., Minneapolis, Minn.
Humphrey Machine Co., Keene, N. H.
Indiana Machine Works Co., Ft. Wayne, Ind.
Lane Mfg. Co., Montpelier, Vt.
Lovell, F. S. Machine Works, Fitchburg, Mass.
Myers Machine Co., Sheboygan, Wis.
Oliver Machinery Co. (Surface), Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Philadelphia, Pa.
Pryibil, P., 512 W 41st, New York
Putnam Machine Co., Fitchburg, Mass.
Salem Iron Works (Inc.), Winston Salem, N. C.
Seymour & Whitlock (Or Hand Feed Jointing), Newark, N. J.
Smith, H. B. Machine Co., Smithville, N. J.
Stellman, L. H. & Son (Rotary Bed), Brattleboro, Vt.
Stetson-Ross Machine Works, Seattle, Wash.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Trevor Mfg. Co., Lockport, N. Y.
Union Iron Works, Bangor, Me.
White, John A. & Co., Dover, N. H.
Whitney, Baxter D. & Son, Winchendon, Mass.
Wilcox, F. F., Keene, N. H.
Woods, S. A. Machine Co., Boston, Mass.
Yerkes & Finan Wood Working Machine Co., St. Louis, Mo.

## 8452— Planers & Matchers

American Sawmill Machinery Co., Hacketts-town, N. J.
American Wood Working Machinery Co., Rochester, N. Y.
Atlantic Works (Inc.), 28th & Gray's Ferry rd, Phila, Pa.
Baldwin Tuthill & Bolton (Planer, Matcher & Moulder), Grand Rapids, Mich.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Connell & Dengler Mach'y Co., Rochester, N. Y.
Cordesman, Rechtin Co., Cincinnati, O.
Crescent Machine Co., Leetonia, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Greaves, Klusman & Co., Cincinnati, O.
Hall & Brown Wood Working Machine Co., St. Louis, Mo.
Hermance Machine Co., Williamsport, Pa.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Mach'y Co., Buffalo, N. Y.
Indiana Machine Works Co., Fort Wayne, Ind.
Power, L. & Co., 20 S 23d, Phila, Pa.
Putnam Machine Co., Fitchburg, Mass.
Salem Iron Works, Winston Salem, N. C.
Smith, H. B. Machine Co., Smithville, N. J.
Stevens Machine Co. (Box Power Matchers & Sectional Roll Rotary Bed Planers), Winooski, Vt.
Woods, S. A. Machine Co., Boston, Mass.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

## 8453— Planes

Buck Bros. (Iron), Millbury, Mass.
Chapin-Stevens Co. (Bench, Ship Moulding & Grooving), Pine Meadow, Conn.
Gage Tool Co. (Self-Setting), Vineland, N. J.
Heald, Addison, & Son, Milford, N. H.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Ohio Tool Co. (Ironj & Wood), Columbus, O.
Purmont, Martin V. B. (Band Saw), Lebanon, N. H.
Royal Equipment Co. (Squaring for Carpenters, Pattern Makers, etc.), Bridgeport, Conn.
Sandusky Tool Co. (Bench, etc.), Sandusky, O.
Sargent & Co. (Iron & Wood Bottom), New Haven, Conn.
Smith, Otis A. ("Fales" Patent Bench), Rockfall, Conn.
Stanley Rule & Level Co. ("Bailey" Adjustable Iron & Wood "Bed Rock"), New Britain, Conn.
Tower & Lyon Co. (Iron "Towers Perfection"), 95 Chambers, New York
Union Hardware Co. ("Chaplin's"), Torrington, Conn.
Union Mfg. Co. ("Union," Iron & Wood), New Britain, Conn.

## 8454— Planimeters

Ashcroft Mfg. Co. ("Amsler" & "Coffin" Averaging), 85 Liberty, New York
**BRISTOL CO. ("Bristol's" for Circular Charts)**, Waterbury, Conn. (See adv. index & branch offices, end of book)
Bushnell, Jno. S. & Co., 174 Fulton, New York
**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Du Vivier, Ernest H., 30 Church, New York
**ELLIOTT, B. K. CO., 108 6th,** Pittsburg, Pa. (See adv. index, end of book)
Hall Mfg. Co. ("Hall's"), John & Cliff, New York
Lippincott Steam Specialty & Supply Co. ("Lippincott" & "Simplex"), Newark, N. J.
Robertson, Jas. L. & Sons ("The Willis"), New York
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Thompson, Richard & Co., 126 Liberty, New York
Trill Indicator Co. ("Faultless"), Corry, Pa.

## 8455— Plank Drawer

Pollard, Jos. G. (Steel), 141 Raymond, Brooklyn, N. Y.

## 8456—Planters (Bean & Pea)

Allen, S. L. & Co. ("Planet, Jr."), Denckla bldg, Phila., Pa.
Bateman Mfg. Co., Grenloch, N. J.
Caledonia Bean Harvester Co. (Bean), Caledonia, N. Y.
Colmbia Planter Co., Springfield, Ohio
Deere & Mansur Co., Moline, Ill.
Gale Mfg. Co. (Bean & Pea), Albion, Mich.
McWhorter Mfg. Co. (Bean), Riverton, N. J.
Moline Plow Co. ("Boston"), Moline, Ill.
Ohio Rake Co. (One Row, "Ohio 40", "Ohio 41 C. & C.", "Dayton C. & C."), Dayton, O.
Parlin & Orendorff Co. (Bean), Cauton, Ill.
Potato Implement Co. (Hand Bean), Traverse City, Mich.
White, S. R. & Bro. (Pea), Norfolk, Va.
Wiard Plow Co. (Bean), Batavia, N. Y.

## 8457— Planters (Beet)

Allen, S. L. & Co., Denckla bldg, Phila., Pa.
Bateman Mfg. Co., Grenloch, N. J.
Columbia Planter Co., Springfield, Ohio
Gale Mfg. Co., Albion, Mich.
Thomas Mfg. Co. ("Thomas"), Springfield, O.

## 8458—Planters (Broom Corn)

Deere & Mansur Co., Moline, Ill.
Gale Mfg. Co., Albion, Mich.

## 8459— Planters (Corn)

American Seeding Machine Co., Springfield, O.
Ames Plow Co. (One Horse, One Row, etc.), Quincy Hall, Boston, Mass.
Avery, B. F. & Sons, Louisville, Ky.
Avery Co. ("Perfection," "Corn King," "Corn Queen" Steel "Perfection"), Peoria, Ill.
Ayers, J. R., Petersburg, Va.
Bailey & Nichols Co., Delevan, Ill.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Blackstone Mfg. Co., Jamestown, N. Y.
Caldwell Mfg. Co., Columbus, Ind.
Campbell Corn Drill Co., Harrison, O.
Cardwell Machine Co., Richmond, Va.
Case, J. I. Plow Works, Racine, Wis.
Chambers, Bering & Quinlan Co., Decatur, Ill.
Collins Plow Co., Quincy, Ill.
Colton, G. D. & Co., Galesburg, Ill.
Columbia Planter Co., Springfield, Ohio
Cooper, A. A. Wagon & Buggy Co., Dubuque, Ia.
Deere & Mansur Co., Moline, Ill.
Deuscher, H. P. Co., Hamilton, O.
Donaldson Bros. ("King"), Mt. Clemens, Mich.
Emerson-Brantingham Co., Rockford, Ill.
Eureka Mower Co. (1 & 2-Row), Utica, N. Y.
Farquhar, A. B. Co. (Ltd.), (Also with Fertilizer Attachment), York, Pa.
Foos Mfg. Co., Springfield, O.
Fort Madison Plow Co., Fort Madison, Iowa
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (One & Two Horse Planter & Fertilizers, also Riding, also With Disc), Albion, Mich.
Grand Detour Plow Co., Dixon, Ill.
Hayes Pump & Planter Co. (Riding & Walking), Galva, Ill.
Hench & Dromgold Co. (Inc.), York, Pa.
Janesville Machine Co., Janesville, Wis.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
Lehr Agricultural Co., Fremont, O.
Lovejoy Co., Cambridge, N. Y.
Luthy & Co., Peoria, Ill.
Marietta Mfg. Co., Marietta, O.
Messinger Mfg. Co., Tatamy, Pa.
Moline Plow Co. (Single & Double & Three Row), Moline, Ill.
Mountville Mfg. Co., Mountville, Pa.
Mulford Heater Co., Galva, Ill.
National Drill Co., Cambridge City, Ind.
Oaks Mfg. Co., Newbern, N. C.
Ohio Cultivator Co., Bellevue, O.
Ohio Rake Co. ("Victor", "Union", "3 Way", "Bulls Eye"), Dayton, O.
Parlin & Orendorff Co., Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Peters Pump Co. ("Kewanee"), Kewanee, Ill.
Porter, J. E. Co. (All Steel), Ottawa, Ill.
Quincy Corn Planter Co. ("Barlow" & "Vandiver-Barlow"; Also Fertilizer Attachment), Quincy, Ill.
Racine-Sattley Co. ("Sattley No. 1", "Sattley No. 6", "New Way"), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. (Double & Single Row), Rock Island, Ill.
Root, B. M. Co. (Single & Double Row), York, Pa.
Sechler, D. M. Implement & Carriage Co. ("Black Hawk"), Moline, Ill.
Sellers, Edw., Oakhall Station, Pa.
Sheffield Mfg. Co., Burr Oak, Mich.
South Bend Chilled Plow Co., South Bend, Ind.
Southern Plow Co., Dallas, Tex.
Spangler Mfg. Co., York, Pa.
Sterling Mfg. Co., Sterling, Ill.
Texas Implement & Machine Co., Dallas, Tex.
Thomas Mfg. Co. ("Thomas"), Springfield, O.
Wayne Works, Richmond, Ind.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Williams Mfg. Co., Decatur, Ill.
Wistrand Mfg. Co. ("Blue Star"), Galva, Ill.

## 8460—Planters (Corn, Hand)

Babcock Planter Co., Adrain, Mich.
Columbia Planter Co., Springfield, Ohio
Donaldson Bros. ("King"), Mount Clemens, Mich.
Eagle Machine Co., Lancaster, O.
Emerson-Brantingham Co., Rockford, Ill.
Eureka Mower Co., Utica, N. Y.
Harrison Mfg. Co., Sterling, Ill.
Horton Mfg. Co., Fort Wayne, Ind.
Hughes & Smythe, Galena, O.
Kent, A. C., Janesville, Wis.
Kent Mfg. Co. ("Kent," "Triumph"), Fort Kingman & Co., Peoria, Ill.
Kingman & Co., Peoria, Ill.
Atkinson, Wis.
Kohler, F. E. & Co. ("Eclipse" Rotary), Canton, O.
Potato Implement Co., Traverse City, Mich.
Sheffield Mfg. Co., Burr Oak, Mich.
Wabers, H. H. Mfg. Co., Racine, Wis.
Wiard Plow Co., Batavia, N. Y.

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## 8461– Planters (Cotton)

Atlanta Agricultural Works ("Brooks," "Dow Law"),Atlanta, Ga.
Avery, B. F. & Sons, Louisvile, Ky.
Avery Co. (Steel "Prince", "Princess", "Cotton Prince", "Cotton Princess"), Peoria, Ill.
Brown Mfg. Co., Janesville, O.
Case, J. I. Plow Works, Racine, Wis.
Chattanooga Plow Co., Chattanooga, Tenn.
Deere & Mansur Co., Moline, Ill.
Eagle Mfg. Co. (Cotton & Corn), Kansas City, Mo.
Emerson-Brantingham Co. (Combined Cotton & Corn), Rockford, Ill.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Gale Mfg. Co. (Daisy, One & Two Row, Riding), Albion, Mich.
Gantt Mfg. Co., Macon, Ga.
Harriman Mfg. Co., Harriman, Tenn.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
**LONG & ALLSTATTER CO., Hamilton, O.** (See adv. index, end of book)
Moline Plow Co. (Single & Double Row), Moline, Ill.
National Drill Co., Cambridge City, Ind.
Oaks Mfg. Co., Newbern, N. C.
Ohio Cultivator Co. ("Ohio" Sulky, etc.), Bellevue, O.
Ohio Rake Co., Dayton, Ohio
Parlin & Orendorff Co. (Cotton & Corn), Canton, Ill.
Racine-Sattley Co. (Cotton & Corn "Sattley No. 7"), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co. (Double & Single Row), Rock Island, Ill.
Sechler, D. M. Ihplement & Carriage Co., Moline, Ill.
South Bend Chilled Plow Co. (Cotton & Corn), South Bend, Ind.
Southern Plow Co., Columbus, Ga.
Southern Plow Co., Dallas, Tex.
Texas Implement & Machine Co., Dallas, Tex.
Towers & Sullivan Mfg. Co. ("Dow Law"), Rome, Ga.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. & Co., Norfolk, Va.

## 8462– Planters (Peanut)

Ayers, J. R. ("Ayers," Single-Row-One-Horse), Petersburg, Va.
Champion Potato Mach'y Co., Hammond, Ind.
Columbia Planter Co., Springfield, Ohio
McWhorter Mfg. Co. ("McWhorter," Single-Row-Wheel-Hand & Two-Row One-Horse), Riverton, N. J.
Whitehurst, R. W. Co. ("Excelsior," Single-Row-One Horse), Norfolk, Va.

## 8463– Planters (Potato)

American Seeding Machine Co. ("Evans," Single-Row; also with Fertilizer Attachment), Springfield, O.
Aspinwall Mfg. Co. ("Aspinwall," Single Row; also with Bean & Pea Planter Attachment; also with Fertilizer Attachment), Jackson, Mich.
Bateman Mfg. Co. ("Robbins," "Iron Age" Single Row; also with Bean & Pea Planter Attachment; also Fertilizer Attachment), Grenloch, N. J.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Brown-Manly Plow Co. ("Malta"), Malta, O.
Burch Plow Co. ("New Burch," with Fertilizer Attachment; also Planter & Cutter Combined), Crestline, O.
Case, J. I. Plow Works ("Lone Star," with Fertilizer Attachment), Racine, Wis.
Champion Potato Machinery Co. ("O. K. Champion"; also with Fertilizer Attachment), Hammond, Ind.
Deere & Mansur Co., Moline, Ill.
Empire Plow Co. ("Empire"), Cleveland, O.
Eureka Mower Co. (One & Two Row; also with Fertilizer Attachment), Utica, N. Y.
Fetzer, Wm. Co. ("McSherry", "Columbia", "Plymouth" & "Fetzer"), Springfield, Ill.
Greenville Implement Co. (Hand), Greenville, Mich.
Hirsch Bros. ("Spalding," Single Row), Milwaukee, Wis.
Jefferson County Mfg. Co., Jefferson, Ky.
Kent Mfg. Co. ("Triumph," Hand), Fort Atkinson, Wis.
McWhorter Mfg. Co. ("McWhorter," Single Row; also with Fertilizer Attachment), Riverton, N. J.
Messinger Mfg. Co. (With Fertilizer Attachment), Tatamy, Pa.
Nebraska Mfg. Co. ("Kaar" Two-Row), Lincoln, Neb.
Ohio Rake Co. ("Dayton"), Dayton, O.
Peek, S. H. ("Perfection"), East Aurora, N. Y.
Platt, A. J., Sterling, Ill.
Pugh, B. H. Mfg. Co., Topeka, Kans.
Potato Implement Co. ("Segment," "Eureka," "Acme," "Peerless," Tubular," "Swan," "Pingree" & "Dewey" Hand), Traverse City, Mich.
Schofield & Co. ("Schofield" Single Row; also Planter & Digger Combined), Freeport, Ill.
Schreiber Mfg. Co., Hammond, Ind.
Sears, Albert H. (Plano), Plano, Ill.
Sheffield Mfg. Co. ("Sheffield" Hand), Burr Oak, Mich.
Southern Plow Co. ("Haimans"), Columbus, Ga.
Springer Bros. Mfg. Co. (Two Row, Check or Drill), Edwardsville, Ill.
Stevens Mfg. Co. ("Steitz" Single Row), Marinette, Wis.
Towers & Sullivan Mfg. Co. ("Tower"), Rome, Ga.
Wabers, H. H. Mfg. Co. ("Invicible" Hand), Racine, Wis.
Whitehurst, R. W. & Co., Norfolk, Va.

## 8464–Plaster (Asbestos, Wall)

**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch office, end of book)

## 8465–Plaster Boards, Slabs, Etc.

(See also Wall Boards)

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
Barrett Mfg. Co. (Blue Plaster Boards), 17 Battery pl, New York
Beaver Co. ("Beaver"), Buffalo, N. Y.
Duffy, J. P. Co. ("Duffy" Wall Board), 440 E 138th, New York
Grand Rapids Plaster Co. (W. S. Hovey, Gen'l Agent), Grand Rapids, Mich.
Keystone Fireproofing Co. (Engineering Dept.), Perry bldg, Phila., Pa. Works: Chester, Pa.
King, J. B. & Co. ("Kings," Fibrous), 17 B'way, New York
Klotz, A. E. Fireproofing Co., 137th & Madison av, New York
New Jersey Adamat Mfg. Co., Harrison, N. J.
Niagara Gypsum Co., Buffalo, N. Y.
Plaster Products Co., Hampton, Va.
Plymouth Gypsum Co., Fort Dodge, Ia.
Rader, A. C. & Co., 7 E 137th, New York
Reeb, M. A., Buffalo, N. Y.
Sackett Plaster Board Co., 1170 B'way, New York
Union Roofing & Mfg. Co. ("Pyramid" Blue), St. Paul, Minn.
United States Gypsum Co. ("Sackett's"), 200 Monroe, Chicago, Ill.
Wotherspoon Plaster Mills (Inc.), 1170 B'way, New York

## 8466–Plaster Mfrs. (Asbestos)

**RUTLAND FIRE CLAY CO. (Flexible),** Rutland, Vt. (See adv. index & branch offices, end of book)

## 8467–Plaster Mfrs. (Calcined)

Acme Cement Plaster Co., 906 Olive, St. Louis, Mo.
Alabastine Co. (Also Land Plaster), Grand Rapids, Mich.
American Cement Plaster Co., Lawrence, Kan., & Quanah, Tex.
American Gypsum Co., Cleveland, O.
Bangs-Gaynor Cement & Plaster Co. (Land Plaster), Fayetteville, N. Y.
Bay City Wood Paste Co., Bay City, Mich.
Conn, Adamat Plaster Co., 10 River, New Haven, Conn.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Gilmore, S., Indian Falls, N. Y.
Grand Rapids Plaster Co., Grand Rapids, Mich.
Gypsum Products Mfg. Co., Grand Rapids, Mich.
Higginson Mfg. Co., Newburgh, N. Y.
Hot Springs Plaster Co., Hot Springs, S. Dak.
Independence Gypsum Co., Southard, Okla.
Keystone Plaster Co. (Sales Office), Perry bldg, Phila, Pa. Works, Chester, Pa.
King, J. R. & Co., 17 State, New York
King, C. Volney, 517 West, New York
Lycoming Calcining Co., Williamsport, Pa., & Garbutt, N. J.
Miller, Clifford L. & Co. (White), 110 E 23d, New York
Newark Lime & Cement Co., ft of Bridge st, Newark, N. J.
Niagara Gypsum Co., Buffalo, N. Y.
Red Beach Plaster Co., Red Beach, Me.
Rock Plaster Mfg. Co., 381 4th av, New York
United States Gypsum Co., 200 Monroe, Chicago, Ill., & Cleveland, O.
Wotherspoon Plaster Mills, 1170 B'way, New York

## 8468–Plaster Mfrs. (Fibrous & Staff)

Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.
Harnisch, Ad A., Spencer n Chlorine Springs, Syracuse, N. Y.
Jennens, W. H. Mfg. Co., Kansas City, Mo.

## 8469–Plaster Mfrs. (Wall)

(See also Stucco Manufacturers)

### ARIZONA TERRITORY.

DOUGLAS—Arizona Gypsum Plaster Co.

### CALIFORNIA.

SAN FRANCISCO—Western Gypsum Co. ("Reno" Hard, "Nevada" White Finish, etc.). Works: Reno, Nevada

### COLORADO.

DENVER—Colorado Portland Cement Co. ("Ideal")

### CONNECTICUT.

BRIDGEPORT—Connecticut Flexible Plaster Co. (Flexible Fiber Wall Plaster)
HARTFORD—Hartford Pulp Plaster Corporation, 73 Walnut (Elastic Pulp)
NEW HAVEN—Connecticut Adamant Plaster Co.

### GEORGIA.

ATLANTA—Georgia Wood Fibre Plaster Co.

### ILLINOIS.

CHICAGO—**RUTLAND FIRE CLAY CO.** (Flexible Asbestos), 223 W 12th. (See adv. index, end of book)
United States Gypsum Co., 200 Monroe

### INDIANA.

INDIANAPOLIS—Keeport, A. B. & Co., 312 W North
NEW ALBANY—New Albany Wall Plaster Co. "Star" & Wood Fibre)
SOUTH BEND—South Bend Pulp Plaster Co.

### IOWA.

CEDAR RAPIDS—King's Crown Plaster Co.
FORT DODGE—Cardiff Gypsum Plaster Co.
Iowa Hard Plaster Co. ("Kalloite")
Plymouth Gypsum Co. ("Plymouth" Cement & Wood Fibre)
WATERLOO—Waterloo Plaster Co.

### KANSAS.

BLUE RAPIDS—Electric Plaster Co.
LAWRENCE—American Cement Plaster Co.

### KENTUCKY.

LOUISVILLE—Atlas Wall Plaster Co.
Kentucky Wall Plaster Co.
Southern Wall Plaster Co.

### MAINE.

RED BEACH—Red Beach Plaster Co.

### MARYLAND.

BALTIMORE—Maryland Lime & Cement Co. (Hard), Carroll bldg
NORTH EAST—Columbia Brick & Plaster Co. ("Columbia")

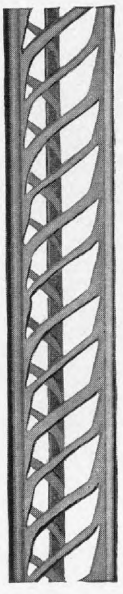
### MASSACHUSETTS.

BOSTON—New England Adamant Co., 325 Medford, Chan.

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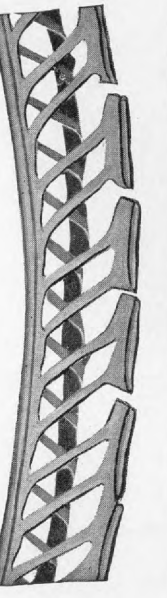
# WORCESTER METAL CORNER BEAD

(PATENTED)



## A Reliable Protector for Plaster Corners on Wood, Brick, Terra Cotta, Iron,

Etc.



Made in lengths of six to eight feet

Can be arched to fit any desired radius

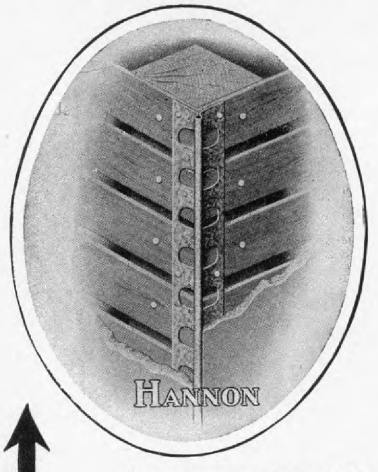
MANUFACTURED BY

## JOHN L. PARKER CO.

62 Jackson Street

WORCESTER, - MASS.

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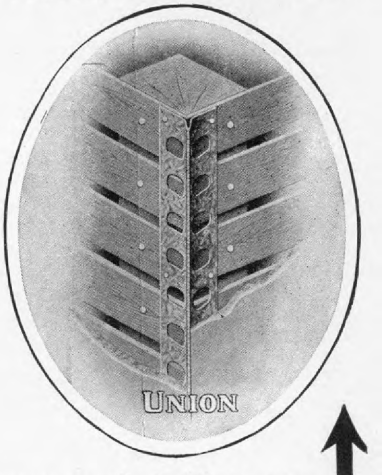



## ALWAYS AT THE TOP

HANNON METAL CORNER BEAD is the strongest, most rigid corner protection you can get. Makes a slightly rounded corner—the delight of our Western Architects. HOT GALVANIZED TWICE—cannot rust. We originated the no-rust bead. Others imitate our galvanizing—but they fail to secure the desired results. They lack the "know how."

UNION METAL CORNER BEAD—famous narrow edge bead. Fits the corner as snugly as milady's glove—no weakening space between wall and bead. The bead that looks as bright and fresh as a newly-coined "cartwheel" from the mint—that's our DOUBLE (hot-process) GALVANIZING. The bead that has the PERFECT plaster-key—that grips the plaster in a strangle-hold.

GOODWIN METAL CORNER BEAD—AT LAST, a clip-bead that satisfies! The clips are adjusted to the Goodwin before shipping—prevents delays. Saves workmen's time. Clips are movable, and being pivoted where the clip grips the bead, they CANNOT BREAK, as other clips do. HOT GALVANIZED TWICE. The GOODWIN makes a corner like our HANNON, slightly rounded.




### "OUTERSITE" METAL PICTURE MOULDING

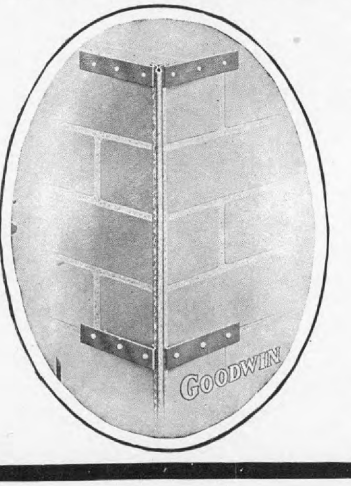
an INVISIBLE moulding, has caught the architects' eye.

So also has

### HANNON METAL PICTURE MOULDING,

an ORNAMENTAL moulding.

*Everything we make appeals to the KNOWING man.*




*Have you samples? If not, you should have.*

*In CORNER BEADS we can supply all your wants.*

## UNION METAL CORNER CO.

**Manufacturers**

*M. A. HANNON, Pres. & Treas.*

144-154 Pearl St. BOSTON, MASS.

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# DO YOU KNOW

that we are consulted by thousands of Buyers annually, who request us to *"put them in touch"* with the manufacturers of the best products in all lines of trade and that we are frequently asked to recommend the ONE which we consider to be *the best* in a particular line ... ...

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Hendricks'

Commercial Register


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### MICHIGAN.

BAY CITY—Bay City Wood Plaster Co. (Fibre)
DETROIT—Little, C. H. Co., 40 Fort W
GRAND RAPIDS—Alabastine Co. (Plasticon Hard Wall)
Grand Rapids Plaster Co.
Gypsum Products Mfg. Co. (Also Wood Fibre)
Michigan Gypsum Co.

### MINNESOTA.

MANKATO—Fowler & Pall ("Jasper")

### MISSISSIPPI.

JACKSON—Southern Wood Fibre Plaster Co. (Wood Fibre)

### MISSOURI.

KANSAS CITY—Monarch Plaster Co., Mills: Watonga, Okla.
ST. LOUIS—Acme Cement Plaster Co.
Glencoe Lime & Cement Co., St. Louis, Mo.
Hunkins-Wills Lime & Cement Co.

### NEVADA.

RENO—Western Gypsum Co. (See San Francisco, Cal.)

### NEW JERSEY.

EAST NEWARK—New Jersey Adamant Mfg. Co.
NEWARK—Newark Lime & Cement Mfg. Co.
TRENTON—New Jersey Elastic Pulp Plaster Co. ("Pulp")

### NEW YORK.

AUBURN—Auburn Plaster Co.
BUFFALO—Buffalo Paragon Wall Plaster Co.
Niagara Gypsum Co. ("Niagara" Brand), Oakfield Plaster Mfg. Co. 597 Michigan
Reeb, M. A., 599 Michigan
CALEDONIA—Consolidated Wheatland Plaster Co.
FAYETTEVILLE—Bangs-Gaynor Cement Plaster Co.
Sheedy, Thos. W.
FULTON—Porter & Co.
GARBUTT—Diamond Wall Cement Co.
Empire Gypsum Co. (Wall Plaster Sanded & Wood Fibre Plaster)
Garbutt Gypsum Co. (of Rochester, N. Y.)
Lycoming Calcining Co.
NEWBURGH—Higginson Mfg. Co.

### NEW YORK CITY.

#### Boroughs of Manhattan & Bronx.

NEW YORK—King, J. B. & Co., 17 State
Miller, Clifford L. & Co. ("Miller's"), 110 E 23d
N. Y. Pulp Plaster Co. (Pulp), 110 E 23d
Rock Plaster Mfg. Co., 381 4th av
Wotherspoon Plaster Mills, 1170 B'way

#### Borough of Richmond.

NEW BRIGHTON—King, J. B. & Co.
**(End of New York City)**
OSWEGO—Farwell, J. B. & Co.
ROCHESTER—American Gypsum Co.
Empire Gypsum Co.
Garbutt Gypsum Co.
Monarch Plaster Co.
Rochester Pulp Plaster Co.
SYRACUSE—Paragon Plaster Co.
UTICA—Empire Wall Plaster Co.
American Hard Wall Plaster Co.

### OHIO.

CANTON—Seeman Plaster Co.
CLEVELAND—American Gypsum Co. ("Anchor" Cement & "Anchor" Wood Fibre)
Forrester Plaster Co., ft. of E. 49th, N. E.
Kelly Island Lime & Transport Co. (Hard), Rockefeller bldg.
United States Gypsum Co.
COLUMBUS—Hamilton-Parker Fuel & Supply Co.
DAYTON—Dayton Fibre Plaster Co. (Fibre)
EAST LIVERPOOL—Old Roman Wall Plaster Co.
ELYRIA—Elyria Plaster Co. (Wood)
LIMA—Walther, Philip
NAPOLEON—Napoleon Pulp Plaster Co.
PORT CARBON—American Gypsum Co.
PORT CLINTON—Consumers' Gypsum Co.
SHELBY—Morris, W. H.
TOLEDO—Fishack Plaster Co.
Toledo Pulp Plaster Co. (Pulp)
YOUNGSTOWN—Sharp Bros.

### OKLAHOMA.

ALVA—Oklahoma Plaster Co.
OKLAHOMA CITY—Texas Cement Plaster Co.
OKARCHE—U. S. Gypsum Co. (of Chicago)
SOUTHARD—Independence Gypsum Co.

### OREGON.

PORTLAND—Adamant Co. (Hard)
Oregon Lime & Plaster Co.
Western Lime & Plaster Co.

### PENNSYLVANIA.

BRADDOCK—Crown Wall Plaster Co.
CHESTER—Keystone Plaster Co. (See Phila., Pa.)
EAST FALLS—Eastwick Plaster Co.
LEBANON—Granitine Wall Plaster Co.
NEW CASTLE—Gailey Fibre Plaster Co.
New Castle Elastic Pulp & Plaster Co. (Pulp)
NEW KENSINGTON — New Kensington Fibre Plaster Co. (Fibre)
PHILADELPHIA—**FRENCH, SAM'L H. &** Co., 4th & Callowhill. (See adv. index, end of book)
Keystone Plaster Co. (Adamant & "Victor"), Perry bldg. Works, Chester, Pa.
**ROCK PLASTER (SAM'L H.** French & Co., Agents), 4th & Callowhill
PITTSBURG—National Mortar & Supply Co. ("Banner")
SCRANTON—Paragon Plaster & Supply Co.
WILLIAMSPORT—Diamond Wall Cement Co.
Lycoming Calcining Co.

### SOUTH DAKOTA.

BLACK HAWK—Dakota Plaster Co.

### TEXAS.

ACME—Acme Cement Plaster Co.

### UTAH.

NEPHI—Nephi Plaster & Mfg. Co.
SALT LAKE CITY—Utah Consolidated Plaster Co.

### VERMONT.

BELLOWS FALLS—Bellows Falls Pulp Plaster Co. (Pulp)
RUTLAND—**RUTLAND FIRE CLAY CO.** (Flexible Asbestos). (See adv. index, end of book)

### VIRGINIA.

NORTH HOLSTON—Southern Gypsum Co. ("Hard Wall")
RICHMOND—Moore, Warner & Co.

### WASHINGTON.

TACOMA—Cascade Plaster Co.
Pacific Coast Gypsum Co. (Plaster of Paris, Hard Wall, Land Plaster, etc.)

### WEST VIRGINIA.

FAIRMOUNT—Fairmount Wall Plaster Co.
WHEELING—Wheeling Wall Plaster Co.

### WYOMING.

LARAMIE—Acme Cement Plaster Co. (See St. Louis, Mo.)
Overland Cement Plaster Co.

## 8470—Plaster Mfrs. (Wall, Wood Fibre)

**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)

## 8470a—Plaster of Paris Mfrs.

(See Plaster Manufacturers, Calcined)

## 8471—Plaster Products for Paper Trade

Keystone Plaster Co., Perry bldg, Phila, Pa. Works, Chester, Pa.

## 8472—Plasterers' Steel Corner Beads

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
**BOSTWICK STEEL LATH CO.** ("The Bostwick" Hot Galvanized), 480 Griswold, Niles, O. (See adv. index, end of book)
Chicago Builders' Specialties Co. (Agents for "Universal"), 84 Van Buren, Chicago, Ill.
Fuller Bros. & Co. (Eastern Agents for "Parker" Corner Beads), 139 Greenwich, New York
Gara, McGinley & Co. (Woods), 23 S 17th, Phila., Pa.
**GENERAL FIREPROOFING CO.** ("Universal" & "National"), Youngstown, O., & 396 B'way, New York (See adv. index & branch offices, end of book)
Hunt Metal Corner Co. (For Projecting, Angular or Interval Corners), Westboro, Mass.
Knapp Bros. Mfg. Co. ("Imperial", "Protection", "Non-Clip"), Western av & 14th, Chicago, Ill.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)


# WALL PLASTER, All Kinds
# BOILER COVERING, Asbestos
# MARBLE, Crushed and Graded
# CEMENT, Retort
# FIRE CLAY, Crude and Ground

**SOAPSTONE** **MICA SCHIST** **SILICA**

Correspondence Solicited Samples Furnished

**RUTLAND FIRE CLAY CO.,** (Established 1882) **RUTLAND, VT.**


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National Metal Fabric Co. ("Clim-X"), Plainville, Conn.
**PARKER, JOHN L. CO. ("Worcester")**, Worcester, Mass. (See adv. index, end of book)
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Prescott, J. B. & Son ("Prescott"), Webster, Mass.
Rogers-Shear Co. ("Universal"), Warren, Pa.
**ST. PAUL ROOFING, CORNICE &** Ornament Co. ("Pruden"), St. Paul, Minn. (See adv. index, end of book)
Sharon Steel Hoop Co. ("Parker"), Sharon, Pa.
**UNION METAL CORNER CO. ("Hannon," "Goodwin" & "Union")**, 144 Pearl, Boston, Mass. (See adv. index, end of book)
Western Metal Corner Co., 164 Dearborn, Chicago, Ill.

## 8473— Plastering Fibre

American Fibre Co., Jacksonville, Fla.
Fernald Co. ("Giant"), 248 Tehama, San Francisco, Cal.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Whiting, E. B. & A. C., Burlington, Vt.

## 8474— Plastering Hair

Armour Curled Hair Works, Chicago, Ill.
Baeder, Adamson & Co., Richmond & Allegheny av, Phila, Pa.
Blumenthal, F. & Co., 193 William, New York
**FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila, Pa.** (See adv. index, end of book)
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Illinois Leather Co., 930 N Halstead, Chicago,
Whiting, E. B. & A. C., Burlington, Vt. Ill

## 8475—Plasters (Medical & Surgical)

Johnson & Johnson, New Brunswick, N. J.

## 8476— Plate (Aluminum)

Aluminum Co. of America, Pittsburg, Pa., & 99 John, New York

## 8477— Plate (Armor)

Bethlehem Steel Co. (Forged, etc.), South Bethlehem, Pa.
Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Midvale Steel Co. (Forged), Nicetown, Phila, Pa.

## Plate (Platinum)

(See Platinum, Sheet & Wire)

## Plate (Shovel)

(See Steel Shovel Plate)

## Plate (Steel Boiler)

(See Iron & Steel Boiler & Tank Plate)

## Plate (Steel Fish)

(See Braces, Rail)

## Plate (Tack)

(See Steel Tack Plate)

## 8478— Plateaux (Table)

**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 8479—Platers' & Polishers' Supplies

Auburn Soap & Chemical Co. ("Tripoli," Vienna Lime, Emery Paste, Quicklina, Lye, Rouge. "Crown," White Polish), Auburn, N. Y.
Bennett-O'Connell Co., 15 S Clinton, Chicago, Ill.
Burns, E. Reed, 40 Withers, Brooklyn, N. Y.
Cutter-Wood Supply Co., Boston, Mass.
Dow Chemical Mfg. Co., Mansfield, O.
Gold, Walter C., 235 Race, Philadelphia, Pa.
Foot Mfg. Co. (Polishing Felts, Buffs, Brushes, etc.), Jersey City, N. J.
**Hansen & Van Winkle Co., Newark, N. J., & 30 W. Canal, Chicago, Ill.**
Harshaw, Fuller & Goodwin Co. (Chemicals), Electric bldg, Cleveland, O.
Levett Mfg. Co., Matawan, N. J.
L'Hommedieu, Chas. & Sons Co., 24 S Clinton, Chicago, Ill.
Lyman, John R. Co., Springfield, Mass.
Rawles-Cobb Co., 74 Pearl, Boston, Mass.
Sommer's, John Sons (Drying Materials), New-
Stevens, F. B., Detroit, Mich. ark, N. J.
Union Wheel & Mfg. Co., Coxsackie, N. Y.

## 8480—Plates (Amalgamating)

Metals Buying & Refining Co. (Refiners), San Francisco, Cal.

## 8481—Plates (Ball & Tube Mill)

Allen, Edgar American Manganese Steel Co. (Breast & Liner Plates, Manganese Steel), 193 Michigan av, Chicago, Ill.

## 8482—Plates (Boiler Arch)

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8483— Plates (Bosh)

Best Mfg. Co. (Furnace), Pittsburg, Pa.
Keystone Bronze Co., Pittsburg, Pa.
**LAWRENCEVILLE BRONZE CO., 31st & Penn av., Pittsburg, Pa.** (See adv. index, end of book)
Smeeth-Harwood Co., 2201 W 22d, Chicago, Ill.

## 8484— Plates (Box Printing)

Houchin, Aiken Co., 37 53d, Brooklyn, N. Y.

## 8485— Plates (Buckle)

Edge Moor Iron Co. (For Bridges, Buildings, etc.), Edge Moor, Del.
Glasgow Iron Co., Pottstown, Pa.

## 8486— Plates (Bumper)

Ireland & Matthews Mfg. Co. (For Plumbers Wood Work), Detroit, Mich.

## 8487—Plates (Bushing Pipe Guide)

**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## Plates (Card & Label)

(See Holders, Card & Label)

## 8488— Plates (Center)

National Car Coupler Co., Monadnock blk, Chicaog, Ill.
Pressed Steel Car Co., Pittsburg, Pa.
Transue & Williams Co., Alliance, O.

## 8489— Plates (Cesspool)

Casey-Hedges Co., Chattanooga, Tenn.
Fee & Mason, 81 Beekman, New York
Glenn Mfg. Co., St. Charles, Ill.
Jones Hollowware Co., Baltimore, Md.

## 8490—Plates (Chrome Steel)

Chrome Steel Works (Also Welded), Chrome, N. J.

## 8491— Plates (Chute)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 8492— Plates (Clutch)

Q. & C. Co. ("Payzant"), 90 West, New York

## 8493— Plates (Coffin)

Eldridge & Co., Taunton, Mass.

## 8494—Plates (Condenser & Supporting)

Taunton-New Bedford Copper Co., New Bedford, Mass.

## 8495— Plates (Core)

Crescent Machine Co., Detroit, Mich.
Diamond Clamp & Flask Co. (Asbestos), Richmond, Ind.

## 8496— Plates (Crusher)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Central Foundry Co., Webb City, Mo.
Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.

## 8497— Plates (End)

Adams, E. B. & Son ("Adams" for Wagon Makers), Racine, Wis.

## 8498— Plates (End Gate)

Griffin Mfg. Co., Erie, Pa.

## 8499— Plates (Expansion)

Avery Stamping Co., Cleveland, O.
Beaton & Caldwell Mfg. Co., New Britain, Conn.
Grabler Mfg. Co. (Steel), Cleveland, O.
National Tube Co., Pittsburg, Pa.
Newbury, Jas. H., Goshen, N. Y.
Pittsburg Valve & Fitting Co., Barberton, O.
Walworth Mfg. Co., Boston, Mass.

## 8500— Plates (Felloe)

**ALLEGHENY STEEL CO., Farmers** Bank bldg, Pittsburg, Pa. Works: Brackenridge, Pa. (See adv. index & branch offices, end of book)
American Fork & Hoe Co., Cleveland, O.
American Shovel & Stamping Co., Lorain, O.
Avery Stamping Co. (Steel), Cleveland, O.
Columbus Bolt Works, Columbus, O.
Hazel-Atlas Glass Co., Wheeling, W. Va.
Lamson & Sessions Co., Cleveland, O.
McKinley Mfg. Co. (Wrought Steel), N S, Pittsburg, Pa.
Sessions, J. H. Son, Bristol, Conn.
Upson Nut Co., Unionville, Conn.
Woodruff, W. W. & Sons, Mt. Carmel, Conn.
Wrought Washer Mfg. Co., Milwaukee, Wis.

## 8501— Plates (Filter Press)

Atchison Perforating Co., 303 Dearborn, Chicago, Ill.
Albright-Nell Co., 4019 Wentworth av, Chicago, Ill.
Currier, Cyrus & Sons, Newark, N. J.
Jackson-Church-Wilcox Co., Saginaw, Mich.
Mundt, Chas. & Sons, 53 Fairmount av, Jersey City, N. J.
Shriver, T. & Co., Harrison, N. J.

## 8502—Plates (Floor, Iron & Steel)

American Steel Co. (Wrought Steel, Ribbed Diamond & Checkered Patterns), Pittsburg, Pa.
Bartholomew, H. (Pressed Steel, Ribbed & Diamond Pattern), Phoenixville, Pa.
Booth, J. B. & Co., Pittsburg, Pa.
**BROWN BROS. MFG. CO. ("Diamond")**, 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Carnegie Steel Co. (Steel), Carnegie bldg, Pittsburg, Pa.
Castle, A. M. & Co. (Diamond or Ribbed Rolled Steel), 217 N Jefferson, Chicago, Ill.
Co-Operative Foundry Co. (Cast Iron for Mill Construction), Detroit, Mich.
Dilworth, Porter & Co., Pittsburg, Pa.
Froment & Co., 151 Bank, New York
Keystone Steel Co. ("Kesco" Open Hearth Wrought Steel, Diamond, Ribbed & Checkered Pattern), Warren, Pa.
Moorhead Bros. & Co., Sharpsburg, Pa.
Ogden & Wallace (Never Slip Wrought Steel), 577 Greenwich, New York
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sligo Iron & Steel Co. (Wrought Steel with Diamond Ribbed & Checkered Pattern), Connellsville, Pa.
Townsend Furnace & Machine Shop Co. (Cast Iron), Albany, N. Y.
Waterbury Foundry Co., Waterbury, Conn.
Wood, Alan Iron & Steel Co. (Diamond & Ribbed Rolled Steel) 1421 Chestnut, Phila., Pa.

## 8503—Plates (Floor, Wrought Steel)

(See Plates, Floor, Iron & Steel)

## 8504—Plates (Floor & Ceiling)

Adams Co. (For Stove Pipe Registers), Dubuque, Ia.
Beaton & Cadwell Mfg. Co. ("A. J. Beaton's"), New Britain, Conn.
Beaton & Corbin Mfg. Co., Southington, Conn.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bishop & Giddings, Southington, Conn.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.

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Buckley-Hart Mfg. Co., Detroit, Mich.
Campbell, J. B. Brass Works, Erie, Pa.
Cheney, S. & Son, Manlius, N. Y.
Clark, Robt., 98 Schermerhorn, Brooklyn, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crescent Brass & Iron Co., Detroit, Mich.
Crescent Mfg. Co., Bristol, Conn.
Davis, John Co., 75 Michigan, Chicago, Ill.
Devlin, Thos. & Co., 3d & Lehigh av, Phila, Pa.
Eureka Heating & Ventilating Co. (C. W. Light, Prop.), (Cast), Saginaw, Mich.
Exeter Brass Works, Exeter, N. H.
Flagg, Stanley G. & Co., 19th & Penn av, Phila, Pa.
Fort Pitt Malleable & Grey Iron Co., Pittsburg, Pa.
General Fire Extinguisher Co., Providence, R. I.
Glenn Mfg. Co., St. Charles, Ill.
Grabler Mfg. Co. (Cold Rolled Steel, Brass, Cast Iron, etc.), Cleveland O.
Grundy Brass Works, Boston, Mass.
Haydenville Co., Haydenville, Mass.
Hoffman, B. Mfg. Co., Milwaukee Wis.
Hoffman & Billings Mfg. Co. Milwaukee, Wis.
Houghton Mfg. Co., Worcester, Mass.
Illinois Malleable Iron Co., 1801 Diversey blvd, Chicago, Ill.
Ireland & Matthews Mfg. Co. (Spun Brass), Detroit, Mich.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Kelly & Jones Co. (Cast Iron), Pittsburg, Pa.
**Kupferle, John C., St. Louis, Mo.**
**McNab & Harlin Mfg. Co., 56 John, New York**
**Matthews Mfg. Co., Worcester, Mass.**
Miller Foundry & Specialty Co. ("Cling Fast" Ceiling Plates), Tonawanda, N. Y.
National Tube Co. (Floor, Ring & Wall), Pittsburg, Pa.
Nelson, N. O. Mfg. Co. ("Vosberg" Thimble), St. Louis, Mo.
Newbury, Jay H., Goshen, N. Y.
Newbury Mfg. Co., Monroe, N. Y.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Russell, W. A. & Co. ("Imperial"), 63 W 37th, New York
Rutzer, Enoch Co., 404 E 49th, New York
**SIMMONS, JOHN CO. ("Simmons"),** 104 Centre, New York. (See adv. index, end of book)
**Smith & Thayer Co., 236 Congress, Boston,**
**Snyder, L. H. & Co., Bristol, Conn. Mass.**
Stearns, E. C. & Co. (Ceiling), Syracuse, N. Y.
**Steele & Johnson Mfg. Co., Waterbury, Conn.**
**Walworth Mfg. Co., 132 Federal, Boston,**
**Waterbury Mfg. Co., Waterbury, Conn. Mass.**
**West Coxsackie Foundry, W. Coxsackie, N. Y.**
Wolverine Brass Works, Grand Rapids, Mich.

## 8505— Plates (Follower)

Hubbard & Co. (For Car Builders), Pittsburg, Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.

## 8506—Plates (Gutter Crossing)

**CRESCENT NOVELTY MFG. CO., 703** S B'way, New York. (See adv. index, end of book)
South Bend Foundry Co. (Cast Iron Corrugated), South Bend, Ind.

## 8507— Plates (Heel)

Boston Pressed Metal Co., Worcester, Mass.
Crescent Mfg. Co., Richmond, Va.
Heath Foundry & Mfg. Co., Plymouth, O.
National Shoe Plate Mfg. Co., Cleveland, O.
Sacks, Louis ("Star", "Boston", "Victor", "Union"), Newark, N. J.
United Shoe Mach'y Co., Boston, Mass.

## 8508— Plates (Hinge)

Penn Hardware Co., Reading, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 8509— Plates (Index)

Brown & Sharpe Mfg. Co., Providence, R. I.

## 8510—Plates (Iron, for Smoke Stacks)

**GOFF, HORNER & CO., Ltd., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 8511— Plates (Joint)

Colorado Fuel & Iron Co., Denver, Col.
Reading Iron Co., Reading, Pa.

## 8512—Plates (Kick & Push)

American Toy & Novelty Mfg. Co., 216 W Indiana, Chicago, Ill.




257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Champion Safety Lock Co., Geneva, O.
Chicago Hardware Co., North Chicago, Ill.
Chicago Spring Butt Co., 491 Carroll av, Chicago, Ill.
**Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.**
Corbin, P. & F., New Britain, Conn.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Imperial Brass Mfg. Co., 441 S Jefferson, Chicago, Ill.
**INGLIS, WM. WIRE & IRON WORKS,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Janusch Mfg. Co. (Brass or Bronze), 481 E 104th, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
**NIAGARA FALLS METAL STAMP-**ing Works, Niagara Falls, N. Y. (See adv. index, end of book)
Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.
Penn Hardware Co., Reading, Pa.
Pittsburg Brass Mfg. Co. (Brass), Pittsburg,
Reading Hardware Co., Reading, Pa. Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Shelby Spring Hinge Co. (Steel, Solid Bronze & Brass), Shelby, O.
**SMITH, F. P. WIRE & IRON WORKS** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Stover Mfg. Co., Freeport, Ill.
Turner Brass Works, Sycamore, Ill.
Western Brass Mfg. Works (Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Yale & Towne Mfg. Co., 9 Murray, New York

## 8513—Plates (Letter Drop)

Russell & Erwin Mfg. Co., New Britain, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

## 8514— Plates (Lock Deck)

Wilcox, Crittenden & Co., Middletown, Conn.

## 8515— Plates (Lock Nut)

**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)

## 8516—Plates (Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York
York

## 8517— Plates (Match)

Bayer Pattern Plate & Mfg. Co., Cleveland, O.
Goodale Co., Kalamazaa, Mich.
Middleditch, Benjamin, Detroit, Mich.

## 8518— Plates (Mending)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
National Mfg. Co. (Wrought Steel), Sterling, Ill.
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
**STANLEY WORKS (Wrought Steel).** New Britain, Conn. (See adv. index & branch offices, end of book)
Wilcox Mfg. Co., Aurora, Ill.

## Plates (Paper)

(See Dishes, Paper)

## 8520— Plates (Pew)

**Everett, A. & Son, Auburn, N. Y.**
Grammes, L. F. & Sons, Allentown, Pa.
**Hanson, C. H., 44 Clark, Chicago, Ill.**

## 8521— Plates (Piano)

**Davenport & Treacy Co., Stamford, Conn.**
Fairbanks Co., Springfield, O.
**Kelly, O. S. Co., Springfield, O.**
Shriver, T. & Co., Harrison, N. J.
Wenzelmann Mfg. Co., Galesburg, Ill.
Wickham Piano Plate Co. (Cast Iron), Springfield, O.

## 8522— Plates (Pie)

National Mfg. Co. ("Krisp-Krust" Wire), Worcester, Mass.

## 8523—Plates (Porcelain Push, Pull, Number, Etc.)

Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

## 8524— Plates (Press)

**CONTINENTAL FIBRE CO. (Vulcan-**ized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO. (Hard** Fibre for Powder Mills, etc.), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

## 8525—Plates (Pressed Steel)

**PRESSED STEEL TANK CO. (Flanged,** Deep Stamped, Forged or Drawn to Shape), Milwaukee, Wis. (See adv. index, end of book)

## 8526— Plates (Rail Joint)

Lackawanna Steel Co. ("Abbott"), Buffalo, N. Y.

## 8527— Plates (Rapping)

(For Foundry Use)

**Benskin Mfg. Co., Canton, O.**
Cleveland Galvanizing Works Co., Cleveland, O.
Diamond Clamp & Flask Co., Richmond, Ind.
Everett, A. & Son, Auburn, N. Y.
Kelly, Thos. P. & Co. ("Fraser"), 544 W 22d, New York
McCormick, J. S. Co., Pittsburg, Pa.
Oliver Machinery Co., Grand Rapids, Mich.
Shanafelt Mfg. Co., Canton, O.
**SMITH, J. D. FOUNDRY SUPPLY CO.** ("Acme"), 40 S Water, Cleveland, O. (See adv. index, end of book)
Timmis & Clissold (Malleable Iron), Bound Brook, N. J.
Wellman Pattern Supply Co., Cleveland, O.

## 8528— Plates (Screen)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Annadale Screen Plate Co., Paterson, N. J.
Eastwood Wire Mfg. Co. (Rolled Brass & Perfection Bronze), Belleville, N. J.
Fox River Screen Plate Co., Appleton, Wis.
Hardy, Wm. A. & Sons Co. ("Hardy & Pinder"), Fitchburg, Mass.
Johnston & Chapman Co., 2906 Carroll av, Chicago, Ill.
Judson & Williams, Holyoke, Mass.
Rice-Barton & Fales Mach. & Iron Co. ("Smith"), Worcester, Mass.
Union Screen Plate Co., Fitchburg, Mass.

## 8529— Plates (Sheared)

**ALLEGHENY STEEL CO. (Steel),** Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Carbon Steel Co. (Open-Hearth Steel), Pittsburg, Pa.
Carnegie Steel Co. (Open Hearth Steel), Pittsburg, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Illinois Steel Co. (Open Hearth Steel), 115 Adams, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
La Belle Iron Works (Basic Open Hearth Steel), Steubenville, O.
Lackawanna Steel Co. (Bessemer & Open-Hearth Steel), Buffalo, N. Y.
Lukens Iron & Steel Co. (Open-Hearth Steel), Coatesville, Pa.
Portsmouth Steel Co. (Open-Hearth), Portsmouth, O.
Tennessee Coal, Iron & Railroad Co. (Open-Hearth Steel), Birmingham, Ala.
Worth Bros. Co. (Open Hearth Steel), Coatesville, Pa.

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## 8530— Plates (Splice)

Penna. Steel Co., 1421 Chestnut, Phila., Pa.
Reading Iron Co., Reading, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 8531— Plates (Spring)

American Shovel & Stamping Co. (For Car Trucks), Lorain, O.
Union Spring & Mfg. Co. (Pressed Steel), Pittsburg, Pa. Works: New Kensington, Pa.

## 8532— Plates (Stair)

Hungerford, W. T. Brass & Copper Co. (Brass & Zinc), 497 Pearl, New York
Painesville Metallic Binding Co., Painesville, Ohio
**TURNER & SEYMOUR MFG. CO. (Brass), Torrington, Conn. (See adv. index, end of book)**

## 8533—Plates (Steel Buckled)

**Glasgow Iron Co. (For Bridges, Buildings, etc.), Pottstown, Pa.**

## 8534—Plates (Steel Etching)

**Lippert, E. T. Saw Mfg. Co. (Used in Glass Houses for Decorating Glassware), Millvale, Pa.**

## 8535— Plates (Surface)

Brown & Sharpe Mfg. Co., Providence, R. I.
Hub Machine Welding & Construction Co. ("Acme"), 621 Cherry, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Rogers, Jno. M. Works, Gloucester City N. J.
Snyder & Metcalf, Waterford, N. Y.

## 8536— Plates (Switch)

Altoona Iron Co. (Padded), Altoona, Pa.
Logan Iron & Steel Co., Burnham, Pa.
Pennsylvania Steel Co. ("Neverslip" Interlocking), 1421 Chestnut, Phila., Pa.

## 8537— Plates (Tie)

Adreon Mfg. Co. ("Clark" Tenison Set, "Security"), St. Louis, Mo.
American Steel & Tube Co., Lorain, O.
Anderson Mfg. Co. ("Clarke," "Security"), St. Louis, Mo.
Atlas Railway Supply Co., Manhattan bldg, Chicago, Ill.
Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Cambria Steel Co., Johnstown, Pa.
Cleveland Railway Supply Co. ("Glory"), Cleveland, O.
Dilworth, Porter & Co. ("Goldie" Claw, etc.), Pittsburg, Pa., & 45 Cliff, New York
Economy Seperable Switch Point Co. ("Economy", Rail, Archor-Tie Plate Combination & Positive Malleable Iron), Louisville, Ky.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)**
Hart Steel Co. ("McKee" Rolled Steel Flanged Shoulder), Elyria, O.
Illinois Steel Co. (Bessemer Steel), 115 Adams, Chicago, Ill.
Lackawanna Steel Co., Buffalo, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Otis Spencer Co. ("Economy" Screw Spike, etc.), 9 Jackson, Chicago, Ill.
Penna. Steel Co., 1421 Chestnut, Phila., Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Portsmouth Steel Co., Wheeling, W. Va.
Rail Joint Co. ("Federal" & "Chicago"), 185 Madison av, New York
Railroad Supply Co. ("Q. & W." "Wolhaupter," "Servis," "C. A. C." Shoulder Flange Flat Bottom Combination"), Bedford bldg, Chicago, Ill.
Reading Iron Co. (Iron), Reading, Pa.
Sellers Mfg. Co. ("Sellers" Anchor Bottom), 193 Michigan av, Chicago, Ill.
Steel Car Forge Co. (Rail Brace), Pittsburg, Pa.
Weir Frog Co., Cincinnati, O.
Western Railway Equipment Co. ("Hoerr," Fish Hook), St. Louis, Mo.
Wharton, Wm. Jr. & Co. (Inc.), 25th & Washington av, Phila., Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 8538— Plates (Trench)

**BROWN BROS. MFG. CO., 22d & Campbell av, Chicago Ill. (See adv. index & branch offices, end of book)**

## 8539— Plates (Turn)

Starr Bros. Bell Co. (Wrought Bronze), East Hampton, Conn.

## 8540— Plates (Universal)

Cambria Steel Co. (Steel), Johnstown, Pa.
Carbon Steel Co. (Open Hearth Steel), Pittsburg, Pa.
Carnegie Steel Co. (Open Hearth Steel), Pittsburg, Pa.
Central Iron & Steel Co. (Steel Bridge & Structural), Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Illinois Steel Co. (Bessemer & Open Hearth Steel), Commercial Bank bldg., Chicago, Ill.
Inland Steel Co. (Open Hearth Steel), 1st Nat. Bank bldg., Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
La Belle Iron Works (Basic Open Hearth Steel), Steubenville, O.
Lackawanna Steel Co. (Bessemer & Open Hearth Steel), Buffalo, N. Y.
Lucknow Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth Steel Plates of All Kinds), Coatesville, Pa.
United Steel Co. (Basic Open Hearth Steel), Canton, O.
Wood, Alan Iron & Steel Co. (Open Hearth Steel), 1421 Chestnut, Phila., Pa.
Youngstown Sheet & Tube Co. (Bessemer & Open Hearth Steel), Youngstown, O.

## 8541— Plates (Welding)

Chicago Metal Reduction Co. ("Delmar"), 77 Jackson blvd, Chicago, Ill.
Phillips-Laffitte Co. ("Laffitte" Chemically Weld Iron & Steel), Penna. bldg, Phila. Pa.

## 8542—Plates (Wire Drawing)

Newman, C. Wire Co., 143 Liberty, New York

## 8543— Plates (Zinc)

Edes Mfg. Co., Plymouth, Mass.
Matthiessen & Hegeler Zinc Co. (Rolled), La Salle, Ill.
Phillips, Ezra & Sons (Pure Rolled), South Hanover, Mass.

## 8544—Platforms (Steel Car)

Commonwealth Steel Co., St. Louis, Mo.
National Car Coupler Co., Monadnock blk, Chicago, Ill. Works, Attica, Ind.
Standard Coupler Co., 2 Rector, New York. Works, Bridgeport, Conn.

## 8545— Plating Apparatus

Hanson & Van Winkle Co., Newark, N. J.
Levett Mfg. Co. (Revolving Plating Apparatus for Automatic Plating), 507 Canal, New York
U. S. Electric Galvanizing Co. (Complete Plants), 3 Park av, Brooklyn, N. Y.

## 8546— Plating Works

Acorn Brass. Mfg. Co., Aurora, Ill.
Adell Bros. Mfg. Co. (Nickel, Oxidizing, etc.), Orange, Mass.
American Foundry & Mfg. Co., St. Louis, Mo.
American Nickel Works (Nickel), 555 W Monroe, Chicago, Ill.
American Tube & Stamping Co. (Nickel, Brass & Copper), Bridgeport, Conn
ARCADE MFG. CO. (Nickel), Freeport, Ill. (See adv. index, end of book)
Bastian Bros. Co. (Gold, Silver, Nickel, Bronze, Copper, etc.), Rochester, N. Y.
Boston Brass Co. (Nickel Platers), 36 Oliver, Boston, Mass.
Bridgeport Electroplate Co. (Nickel, Silver & Gold), Bridgeport, Conn.
Buescher Band Instrument Co. (All Kinds), Elkhart, Ind.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Central Plating Works, Indianapolis, Ind.
Columbia Machine Works & Malleable Iron Co. Nickel, etc.), 269 Chestnut, Brooklyn, N. Y.
Connecticut Mfg. Co., Waterbury, Conn.
Consolidated Casting Co., Mechanicsville, N. Y.
Dailey Plating Co., Lynn, Mass.
Delaware Maine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.
Devlin, Thos. Mfg. Co. (Electro Plating in Gold, Silver, Nickel, Brass & Bronze), 3d & Lehigh av, Phila, Pa.
Domestic Plating Works Co., 1121 Wash'n boul, Chicago, Ill.
Eastward Wire & Mfg. Co. (Nickel Platings, Oxydizing), Belleville, N. J.
Edstrand & Olson (Nickel, etc.), 113 N Jefferson, Chicago, Ill.
Edwardsville Brass Co. (Nickel, Electro, etc.), Edwardsville, Ill.
Enterprise Brass & Plating Co., 2838 Spring Grove av, Cincinnati, O.
Excelsior Brass Works (Gold, Silver, Brass Nickel, Copper & Oxidizing), Reading, Pa.
Frazer & Jones (Nickel, Brass & Copper), Syracuse, N. Y.
Fries, A. G. Plating Co. (Plating & Polishing), Buffalo, N. Y.
Gaumer, Jno. L. Co. (Electro, Gold, Silver Nickel, Copper, etc.), 22d & Wood, Phila, Pa.
Genesee Plating & Machine Works, Rochester, N. Y.
GLOBE MACHINE & STAMPING CO. (Nickel, Brass, Copper, Zinc, Silver, etc.), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Gray Iron Foundry Co., Reading, Pa.
Hopson & Chapin Mfg. Co., New London, Conn. Buffalo, N. Y.
Ideal Plating Co. (Nickel), Marlboro, Mass.
Keim, John R. Mills (Inc.) (Nickel, etc.)
Imperial Brass Mfg. Co. (Gold, Nickel, Silver, etc.), 444 S Jefferson, Chicago, Ill.
Kettler Brass Mfg. Co., Houston, Tex.
Kienzle, & Kuhles (Gold, Silver, Oroide, Brass & Nickel), 319 W Ohio, Chicago, Ill.
Lockwood Co. (Nickel & Silver), Newark, N. J.
Loeffelholz Co. (Silver & Nickel), Milwaukee, Wis.
Matthews, H. A. Mfg. Co. (Nickel, Copper & Brass), Seymour, Conn.
Matthews Mfg. Co. (Brass, Copper & Nickel), Worcester, Mass.
Miller, J. Walter (Gold, Silver & Nickel), Lancaster, Pa.
Mills, Wm. J. (Gold, Silver & Nickel Plating), 639 Kent av, Brooklyn, N. Y.
Milwaukee Automatic Machine Co. (Brass, Copper & Nickel), Milwaukee, Wis.
National Cycle Mfg. Co. (Plating & Polishing in All Metals), Bay City, Mich.
Naugatuck Mfg. Co., Naugatuck, Conn.
Norwich Nickel & Brass Co. (Nickel, Copper & Silver), Norwich, Conn.
Peckham, John A. (Nickel, Brass, Bronze & Copper), New Haven, Conn.
Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson, Phila, Pa.
Racine Malleable & Wrought Iron Co. (Nickel, etc.), Racine, Wis.
Reed & Prince Mfg. Co. (Nickel), Brass & Copper), Worcester, Mass.
Rockford Metal Specialty Co., Rockford, Ill.
Schatz Mfg. Co. (Plating, Polishing, etc.), Poughkeepsie, N. Y.
Sessions, J. H. & Son (Brass, Nickel & Bronze Plating & Polishing), Bristol, Conn.
Southern Brass Mfg. & Plating Co., Houston, Tex.
Star Plating Works (Nickel, Brass & Copper), Buffalo, N. Y.
Tresal Bronzing & Plating Co. (Bronzers, Gilders & Platers), 245 W 28th, New York
Turner Brass Works, Syracuse, Ill.
TURNER & SEYMOUR MFG. CO. (Silver, Nickel, Gold, etc.), Torrington, Conn. (See adv. index, end of book)
Union Polishing & Plating Co., Rochester, N. Y.
Verden Mfg. Co. (Plating & Polishing), Cleveland, O.
VOELKNER & HARRY MANUFACturing Co., 282 Woodbridge E. Detroit, Mich. (See adv. index, end of book)

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Woods-Sherwood Co. (Nickel & Silver), Lowell, Mass.
**WRIGHT WIRE CO. (All Kinds of Plating).** Worcester, Mass. (See adv. index & branch offices, end of book)

## 8547—Platinoid (Non-Fusing)

Manhattan Dental Co., Times bldg. New York

## 8548— Platinum

**AMERICAN PLATINUM WORKS** (Specialties), Chestnut st & N. J. R. R. av, Newark, N. J. (See adv index, end of book)
Baker & Co. (Inc.) (Special Shape), Newark, N. J.
Bishop, J. & Co. (Refiners & Melters, Wire, Plate, Tubes & Special Shapes), Malvern, Pa.
Croselmire & Ackor Co., 42 Walnut, Newark, N. J.
Goldsmith Bros. Smelting & Refining Co., Heyworth bldg., Chicago, Ill.
Platt, C. S. Co., 31 Gold, New York
Schawel, Jas. & Co., 27 John, New York
Roessler & Hasslacher Chemical Co. (Jobbers), 100 William, New York

## 8549—Platinum Crucible & Dishes

**AMERICAN PLATINUM WORKS,** Chestnut st & N J R R av, Newark, N. J. (See adv. index, end of book)
Croselmire & Ackor Co., 42 Walnut, Newark, N. J.

## 8550— Platinum Foil

Croselmire & Ackor Co. (Very Soft), 42 Walnut, Newark, N. J.

## 8551— Platinum Gauze

Croselmire & Ackor Co., 42 Walnut, Newark, N. J.

## 8552—Platinum-Iridium Balls

Croselmire & Ackor Co., 42 Walnut, Newark, N. J.

## 8553—Platinum Sheet & Wire

**AMERICAN PLATINUM WORKS,** Chestnut st & N J R R av, Newark, N. J. (See adv. index, end of book)
Baker & Co. (Also Iridio Platinum), 408 N. J. R. R. av, Newark, N. J.
Bishop, J. & Co., Malvern, Pa.
Croselmire & Ackor Co. (Soft & Hard), 42 Walnut, Newark, N. J.
Schawel, J. & Co., 29 John, New York

## 8553a— Pliers (Burner)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 8554— Pliers (Extension)

**STARRETT, L. A. CO. ("Starrett,"** Drop Forged), Athol, Mass. (See adv. index & branch offices, end of book)

## 8555— Pliers (Fencing)

Bonner, C. E. Mfg. Co., Champaign, Ill.
**Bridgeport Hardware Mfg. Co. ("Bridgeport" Fence Plier & Staple Puller),** Bridgeport, Conn.
Cronk & Carrier Mfg. Co. ("Cronk's" Staple Puller), Elmira, N. Y.
Danielson, J. P. & Co., Jamestown, N. Y.
Elmore Tool Mfg. Co., Hartford, Conn.
Erie Tool Works, Erie, Pa.
Irvington Mfg. Co., Irvington, N. J.
**King, J. M. Co. (Inc.) ("Button's" Wire Cutter & Plier Combined),** Waterford, N. Y.
Peck, Stow & Wilson Co., Southington, Conn.
Sayre, L. A. & Son, Newark, N. J.
**SMITH & HEMENWAY CO. ("Red Devil," Drop Forged),** 150 Chambers, New York. (See adv. index, end of book)
Utica Drop Forge & Tool Co., Utica, N. Y.
Vaughn & Bushnell Mfg. Co., 2130 W Carroll av, Chicago, Ill.

## 8556— Pliers (Gas)

Ashcroft Mfg. Co., 85 Liberty, New York
Athol Machine Co., Athol, Mass.
Barnett, Oscar Foundry Co. ("Barnett"), Newark, N. J.
**BERNZ, OTTO, 21 Ashland av,** Newark, N. J. (See adv. index, end of book)
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Bonner, C. E. Mfg. Co. ("Victor", "Buttons"), Champaign, Ill.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Cincinnati Tool Co., Norwood, Cincinnati O.
Clark, A. N. & Son, Plainville, Conn.
Crescent Tool Co. ("Crescent" & "Simplex" Combination Drop Forged Gas Pliers, Wire Cutter, Wrench & Screw Driver), Jamestown, N. Y.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Erie Tool Works (Combination), Erie, Pa.
Hall, Chas. E. Co. (Combination), Buffalo, N. Y.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hjorth, Wm. & Co., Jamestown, N. Y.
Indianapolis Drop Forging Co. (Combination), Indianapolis, Ind.
Irving Mfg. & Tool Co., 169 Chambers, New York
Jennings, C. E. Co., 79 Reade, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kilborn & Bishop Co., New Haven, Conn.
King, J. M. & Co., Waterford, N. Y.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Osborne, C. S. & Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Reed Mfg. Co., Erie, Pa.
Rocky Hill Hardware Co., Rocky Hill, Conn.
Sargent & Co., New Haven, Conn.
Schollhorn, Wm. Co., New Haven, Conn.
Smith & Egge Mfg. Co. ("S. & E. M. Co."), Bridgeport, Conn.
**SMITH & HEMENWAY CO. ("Red Devil",** Drop Forged), 150 Chambers, New York. (See adv. index, end of book)
Stortz, John & Son, 210 Vine, Philadelphia, Pa.
Tower & Lyon Co., 95 Chambers, New York
Utica Drop Forge & Tool Co., Utica, N. Y.
**Vaughn & Bushnell Mfg. Co. ("V. & B." Center), 2130 W Carroll av, Chicago, Ill.**
Walworth Mfg. Co., Boston, Mass.
Washington Tool Co., Owatonna, Minn.

## 8557—Pliers (Glass Cutters')

**Kraeuter & Co., Newark, N. J.**
Peck, Stow & Wilcox Co., Southington, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 8558—Pliers (Lead Pipe Expanding)

Anderson Wrench Co. ("Anderson"), Portland, Conn.
Lord, L. L. Co. ("Lord"), Meadville, Pa.

## 8559— Pliers (Lineman's)

Cincinnati Tool Co. ("Hargraves"), Cincinnati, Ohio
Crescent Tool Co. ("Crescent" Drop Forged), Jamestown, N. Y.
Cronk & Carrier Mfg. Co. (Insulated & Non-Insulated), Elmira, N. Y.
Dicke Tool Co., Downers Grove, Ill.
Higganum Hardware Co., Higganum, Conn.
Irving Mfg. & Tool Co., 169 Chambers, New
Irvington Mfg. Co., Irvington, N. J. York
**JOHNS, H. W.-MANVILLE CO. (Insulated),** 100 William, New York. (See adv. index & branch offices, end of book)
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Peck, Stow & Wilcox Co. (Mica Handle), Southington, Conn.
Robinson, M. W. Co. ("Klein" Pattern), 88 White, New York
Schollhorn, Wm. Co. ("Bernard's"), New Haven, Conn.
**SMITH & HEMENWAY CO. ("Red Devil",** Drop Forged), 150 Chambers, New York. (See adv. index, end of book)
Utica Drop Forge & Tool Co., Utica, N. Y.

## 8560—Pliers (Piano Makers')

**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Kraeuter & Co., Newark, N. J.

## 8561—Pliers (Pressed Steel)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 8562— Pliers & Nippers

(See also Clinchers; also Pliers, Gas)

Athol Machine Co. (Combination Pliers, etc.), Athol, Mass.
**Barnett, Oscar Foundry Co.** (Combination Pliers, etc., "Barnett"), Newark, N. J.
Bergman Tool Mfg. Co. (Pliers Only), Buffalo, N. Y.
**BERNZ, OTTO (Cutting, Combination,** etc.), 21 Ashland av, Newark, N. J. (See adv. index, end of book)
Billings & Spencer Co. (Cutting, Combination, Gas, etc.), Hartford, Conn.
Bonner, C. E. Mfg. Co. ("Victor", "Buttons", Wire Plier & Cutter), Champaign, Ill.
**Bridgeport Hardware Mfg. Co. ("Keyes" Solid Steel),** Bridgeport, Conn.
Cincinnati Tool Co. (Combination Pliers, etc.), Norwood, Cincinanti, O.
Clark, A. N. & Son, Plainville, Conn.
Crescent Tool Co. ("Crescent," "Simplex" Drop Forged Combination Gas Pliers, Wire Cutter & Screw Driver Combined), Jamestown, N. Y.
Cronk & Carrier Mfg. Co. (Combination Pliers), Elmira, N. Y.
**Danielson, J. P. & Co.** (Side Cutting Combination), Jamestown, N. Y.
**De Vilbiss Plier Co., Dundee, Mich.**
**Dicke Tool Co.** (Combination, Wireman's, etc.). Downers Grove, Ill.
**Hall, Chas. E. Co. (Adjustable Combination Pliers),** Buffalo, N. Y.

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**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Higganum Hardware Co. ("Acme"), Higganum, Conn.
Hjorth, Wm. & Co. (Also Pocket Pliers), Jamestown, N. Y.
Irving Mfg. & Tool Co. ("Button's" Combination Pliers), 169 Chambers, New York
Irvington Mfg. Co. ("Irvington"), Irvington, N. J.
Kilborn & Bishop Co. (Forged Combination & Gas Pliers), New Haven, Conn.
King, J. M. Co. ("Buttons") (Inc.) (Combination, etc.), Waterford, N. Y.
Knights Combination Tool Co., New Haven, Conn.
Kraeuter & Co. (Combination), Newark, N. J.
Osborne, C. S. & Co. (Gas, Saddlers' etc.), Harrison, N. J.
Peck, Stow & Wilcox Co. (Round & Flat Nose, etc.), Southington, Conn.
Reed Mfg. Co. (Combination Gas Pliers, Erie, Pa.
Robinson, M. W. Co. ("Klein" Pattern), 88 White, New York
S. & I. Co. ("Never Break," Nickel or Black Finish Pliers), Springfield, Mass.
Sayre, L. A. Co. ("Hercules" Fence Pliers), Newark, N. J.
Scholhorn, Wm. Co. ("Bernard's," "Paragon," Pliers & Nippers Combined), New Haven, Conn.
Smith, Otis, A. (Side Cutting), Rockfall, Conn.
**SMITH & HEMENWAY CO. ("Red Devil", Drop Forged),** 150 Chambers, New York. (See adv. index, end of book)
Stortz, John & Sons (Gas), 210 Vine, Phila., Pa.
Utica Drop Forge & Tool Co. (Cutting, etc.), Utica, N. Y.
Walworth Mfg. Co. (Gas, etc.), Boston, Mass.

## 8563— Plow Beams (Steel)

Carnegie Steel Co., Carnegie bldg, Pittsburg,
Empire Plow Co., Cleveland, O. Pa.
Hench & Drumgold Co., York, Pa.
Inland Steel Co. (Open Hearth Steel), First National Bank bldg., Chicago, Ill.
Interstate Iron & Steel Co. (High Carbon Steel), 1st Nat'l. Bank bldg., Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Shunk Plow Co., Bucyrus, O.

## 8564— Plow Coulters

Avery, B. F. & Sons ("Moore"), Louisville, Ky.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Buckeye Mfg. Co. (Rolling), Canton, O.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Carnegie Plow & Mfg. Co. ("Universal" & "Star"), Carnegie, Pa.
Clayton, John Plow Works ("Universal"), Minneapolis, Minn.
Collins Plow Co., Quincy, Ill.
Eaton Plow Works (V. A. Stookey & Son, Prop.), Pinckneyville, Ill.
Empire Plow Co., Cleveland, O.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Galesburg Coulter-Disc Co. ("Sandoval" "Galesburg" Rolling), Galesburg, Ill.
Hartford Plow Works ("Tally Ho"), Hartford, Wis.
Hartman Mfg. Co. ("Acme" Jr. & Sr.), Vincennes, Ind.
Hench & Dromgold Co., York, Pa.
Herschel, R. Mfg. Co., Peoria, Ill.
Kingman Plow Co. ("Kingman Universal"), Peoria, Ill.
La Crosse Plow Co. ("La Crosse"), La Crosse.
Lambert, J. C. Co., Tonica, Ill. Wis.
Minneapolis Plow Works ("Johnson," "Quincy," "Monitor," "Invincible"), Minneapolis, Minn.
Moline Plow Co. ("New Universal" Roller),
Moore, C. H., Toledo, O. Moline, Ill.
Morris Bros. ("Cyclone" Roller & Breaker), Dewitt, Iowa
Nevin & Wetmore, Lowville, N. Y.
Owensboro Shovel & Tool Co., Owensboro,
Parlin & Orendorff Co., Canton, Ill. Ky.
Rock Island Plow Co. ("Universal," "Rock Island"), Rock Island, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Sparta Plow Works ("Adjustable"), Sparta,
Spier, Hugh ("Boss"), Bunker Hill, Ill. Ill.
Star Coulter Co. ("Star"), Canton, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Weyburn Co. ("Ideal" Rolling), Rockford, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 8565— Plow Jointers

Buckeye Mfg. Co., Canton, O.

## 8566— Plow Mfrs.

Adams, Bros. Co., Findlay, O.
Adams, S. & Son, Rome, N. Y.
Allen, S. L. & Co., Deuckla bldg, Phila, Pa.
Allen, Chas. G. C., Barre, Mass.
Almy, Saml' & Son, Trumansburg, N. Y.
American Plow Co., Madison, Wis.
American Road Mach. Co., Kennett, sq., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Arnold's, G. W. Son, Ionia, Mich.
Atlanta Agricultural Works, Atlanta, Ga.
Avery, B. F. & Sons (Chilled Steel), Louisville, Ky.
Babcock Mfg. Co., Leonardsville, N. Y.
Barnes Mfg. Co. Lanesboro, Pa.
Beachtolt, Geo. E., Urbana, O.
Becker, J. E., Appleton, Wis.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Benicia Iron Works, Benicia, Cal.
Billups, C. Son & Co., Norfolk, Va.
Blount Plow Works, Evansville, Ind.
Bradley, P. & Sons, Harrisonburg, Va.
Brillion Iron Works, Brillion, Wis.
Brinly-Hardy Co. (Hand Welded Steel Point), Louisville, Ky.
Brown-Manly Plow Co., Malta, O.
Brown Mfg. Co., Zanesville, O.
Bryan Plow Co., Bryan, O.
Bucher & Gibbs Plow Co. (Chilled Steel, Combination), Canton, O.
Burch Plow Works Co. (Wood Beam Steel Road), Crestline, O.
Call-Watt Co., Richmond, Va.
Carnegie Plow & Mfg. Co., Carnegie, Pa.
Case, J. I. Plow Works, Racine, Wis.
Castile Chilled Plow Co., Castile, N. Y.
Caward, R. S., Cresco, Iowa
Chattanooga Implement & Mfg. Co., Chattanooga, Tenn.
Chattanooga Plow Co. (Chilled), Chattanooga, Tenn.
Clipper Chilled Plow Co. (Chilled), Elmira, N. Y.
Clore, Wm. H. Mfg. Co. ("Star"), Washington, Ind.
Collins Co. (Gang & Wheel Walking), Collinsville, Conn.
Collins Plow Co. (Walking or Riding), Quincy, Ill.
Columbia Plow Works (Chilled), Copake Iron Works, N. Y.
Crescent Forge & Shovel Co., Havana, Ill.
Cutaway Harrow Co., Higganum, Conn.
Danielsen Implement Co., Independence, Mo.
Davidson-Dietrich Plow Co. (Walking), Evans-
Deere & Co., Moline, Ill. ville, Ind.
Disc Grade & Plow Co., Minneapolis, Minn.
Donaldson Bros. (Steel & Wood Rim), Mount Clemens, Mich.
Dutton, E. Q. & Co. (Walking), Cato, N. Y.
Eagle Mfg. Co., Kansas City, Mo.
Eaton Plow Works (V. A. Stookey & Son, Props.), Pinckneyville, Ill.
Eddy, W. Plow Co., Greenwich, N. Y.
Emerson-Brantingham Co., Rockford, Ill.
Empire Plow Co. (Middleburster & Planter Bottom), Cleveland, O.
Eureka Mower Co. (Walking), Utica, N. Y.
Fair, Geo. & Son, Blaine, Mich.
Fairfield Plow Works, North Fairfield, O.
Farquhar, A. B. Co. (Ltd.) (Chilled), York, Pa.
Fort Madison Plow Co., Fort Madison, Ia.
Fonda, F. A., East Galway, N. Y.
Frye, John J., Portland, Me.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (3-Wheel Sulky, 3-Wheel Gang, Riding, & One, Two & Three-Horse Walking), Albion, Mich.
Geiser Mfg. Co., Waynesboro, Pa.
Gesley Mfg. Co., Beloit, Wis.
Gowanda Agricultural Works (Steel), Gowanda, N. Y.
Grand Detour Plow Co. (Listing), Dixon, Ill.
Greenville Implement Co., Greenville, Mich.
Hall, Jas. H. Plow Co., Maysville, Ky.
Hamackek, Frank, Kewaunee, Wis.
Hamburg Plow Works, Hamburg, Pa.
Hapgood Plow Co., Alton, Ill.
Harriman Mfg. Co., Harriman, Tenn.
Hartford Plow Co., Hartford, Wis.
Hartig-Becker Plow Co., Evansville, Ind.
Hench & Dromgold Co. (Inc.), York, Pa.
Houser & Haines Mfg. Co., Stockton, Cal.
Hunter, Chas. E. F. F. Plow Works, Fredericksburg, Va.
Hussey Plow Co., N. Berwick, Me.
Janesville Machine Co., Janesville, Wis.
Johnson & Smith Co., Austin, Minn.
Kaster, P. M., Rimersburg, Pa.
Kelly, G. A. Plow Co., Longview, Tex.
Kennehan, P. E., Brasher Falls, N. Y.
Kerns, H. O. Sutherlin, Va.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
La Crosse Plow Co., La Crosse, Wis.
Leader Plow Co., Staunton, Va.
Lee, R. E., Almont, Mich.
Lehr Agricultural Co., Fremont, O.
Leroy Plow Co., Leroy, N. Y.
Little, O. J., Deckertown, N. J.
Logan Foundry & Machine Co., Logan, O.
Look & Lincoln, Marion, Va.
Lovejoy Co. (Chilled), Cambridge, N. Y.
Luthy, & Co., Peoria, Ill.
Lynchburg Foundry Co. (Chilled Walking), Lynchburg, Va.
Lyon Iron Works, Green, N. Y.
McDonnell Foundry & Machine Co., Jackson,
Marietta Mfg. Co., Marietta, O. Miss.
May, Wm. H. & Son, Alexandria, Va.
Minneapolis Plow Works, Minneapolis, Minn.
Mishawaka Plow Co., Mishawaka, Ind.
Moline Plow Co., Moline, Ill.
Monmouth Plow Co., Monmouth, Ill.
Moore Plow & Implement Co. (Walking), Greenville, Mich.
Mountville Mfg. Co., Mountville, Pa.
Munsville Plow Co., Munsville, N. Y.
Murkland, J. W. Barton, Vt.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Oldendorph, Jacob (Iron Beam), Waterloo, Ill.
Oliver Rake Co., Dayton, O.
Ohio Cultivator Co., Bellevue, O.
Painter & Frankland, Albion, Ill.
Parlin & Orendorff Co., Canton, Ill.
Parrott Mfg. Co., Dayton, O.
Pattee Plow Co., Monmouth, Ill.
Peek, S. H. (Steel), East Aurora, N. Y.
Peru Plow & Wheel Co., Peru, Ill.
Puddock & Lermont, Harbor Beach, Mich.
Racine-Sattley Co., Springfield, Ill., & Racine,
Reeves & Co., Columbus, Ind. Wis.
Ripson, Wm. & Son, Youngstown, N. Y.
Rockford Mfg. Co., Rockford, Ill.
Rock Island Plow Co. (Chilled & Steel), Rock Island, Ill.
Rowell, I. B. & Co. (Riding or Walking), Menominee Falls, Wis.
St. Joseph Plow Co., St. Joseph, Mo.
Sanders, Newell Plow Co., Chattanooga, Tenn.
Sargent, Osgood & Roundry Co., Randolph, Vt.
Sellers, Edw., Oakhall Station, Pa.
Shaw, H. C. Co., Stockton, Cal.
Shunk Plow Co., Bucyrus, O.
Sioux Falls Plow Co., Sioux Falls, S. Dak.
Smalley Mfg. Co., Manitowoc, Wis.
Smith & Sons Mfg. Co., Kansas City, Mo.
South Bend Chilled-Plow Co. (Chilled), South Bend, Ind.
South Bend Foundry Co., South Bend, Ind.
Southern Plow Co., Columbus, Ga.
Spalding Tilling Machine Co. ("Spalding"), Cleveland, O.
Sparta Plow Works, Sparta, Ill.
Spaulding Robbins Disc Plow Co., San Fran-
Spieth & Son, Des Moines, Ia. cisco, Cal.
Spinner, E. F., Ava, Ill.
Star Mfg. Co., Carpentersville, Ill.
Stark's Dixie Plow Works, Richmond, Va.
Stoughton Wagon Co., Stoughton, Wis.
Stroker, Fritz C. & Son, Olney, Mo.
Sturgis, W. B. & Son, Shelbyville, Ill.
Swinton & Co., Port Jervis, N. Y.
Syracuse Chilled Plow Co. (Chilled), Syracuse, N. Y.
Texas Disc Plow Co., Dallas, Tex.
Thompson, J. & Sons Mfg. Co. (Chilled), Beloit, Wis.
Towers & Sullivan Mfg. Co., Rome, Ga.
Varney, J. B. Plow Co., North Berwick, Me.
Volunteer Disc Plow Co., Chattanooga, Tenn.
Vulcan Plow Co. (Chilled & Steel), Evansville, Ind.
Watt Plow Co., Richmond, Va.
Wayne Agricultural Works, Goldsboro, N. C.
Wells-Jones Plow Co., Jackson, Tenn.

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Western Wheeled Scraper Co., Aurora, Ill.
White, S. R. Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Wiard Plow Co. (Chilled & Steel), Batavia, N. Y.
Wilder-Strong Implement Co., Monroe, Mich.

## 8567—Plowing Outfits (Steam)

Avery Co., Peoria, Ill.
Geiser Mfg. Co., Waynesboro, Pa.

## 8568— Plows (Asparagus)

Wyckoff Bros., Hightstown, N. J.

## 8569— Plows (Ballast)

Bucyrus Co., South Milwaukee, Wis.

## 8570— Plows (Beet)

Parlin & Orendorff Co., Canton, Ill.

## 8571— Plows (Breaking)

American Road Machine Co., Kennett Square, Pa.
Avery, B. F. & Sons, Louisville, Ky.
Brinly-Hardy Co., Louisville, Ky.
Brown-Manly, Malta, O.
Burch Plow Works Co., Crestline, O.
Case, J. I. Plow Works, Racine, Wis.
Chattanooga Plow Co., Chattanooga, Tenn.
Deere & Co., Moline, Ill.
Eagle Mfg. Co. ("Middle Buster"), Kansas City, Mo.
Emerson-Brantingham Co., Rockford, Ill.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co., Albion, Mich.
Grand Detour Plow Co., Dixon, Ill.
Hench & Dromgold Co., York, Pa.
Hapgood Plow Co., Alton, Ill.
Johnson & Smith Co. (Grub & Sod), Austin, Minn.
Kingman Plow Co., Peoria, Ill.
La Crosse Plow Co., La Crosse, Wis.
Lanfersleck-Grothaus Co., New Bremen, O.
Lee Bros., Watertown, S. Dak.
Lehr Agricultural Co., Fremont, O.
Messinger Mfg. Co., Tatamy, Pa.
Minneapolis Plow Works, Minneapolis, Minn.
Moline Plow Co., Moline, Ill.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
Parrott Mfg. Co., Dayton, O.
Peru Plow & Wheel Co. (Tongue & Tongueless), Peru, Ill.
Racine-Sattley Co. ("Sattley"), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co., Rock Island, Ill.
St. Joseph Plow Co., St. Joseph, Mo.
Schuerenberg, F. W. (Also Wagons), Brenham, Tex.
Shunk Plow Co. (Steel, Street, etc.), Bucyrus, O.
South Bend Chilled Plow Co., South Bend, Ind.
Southern Plow Co., Columbus, Ga.
Sparta Plow Works, Sparta, Ill.
Star Mfg. Co., Carpentersville, Ill.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Toledo Plow Co., Toledo, O.
Vulcan Plow Co., Evansville, Ind.
White, S. R. & Bro. (Grub), Norfolk, Va.

## 8572— Plows (Clay)

CENTRAL IRON WORKS (For Brick Mfrs.), Quincy, Ill. (See adv. index, end of book)
Fernholtz Brick Machinery Co., St. Louis, Mo.

## 8573— Plows (Contractors')

Acme Road Machinery Co., Frankfort, N. Y.
American Road Machine Co., Kennett Square, Pa.
American Steel Scraper Co. (Steel Road), Sidney, O.
Ames Plow Co., Quincy Hall, Boston, Mass.
Attica Bridge Co., Attica, Ind.
Austin Mfg. Co., Manhattan bldg, Chicago, Ill.
Avery, B. F. & Sons, Louisville, Ky.
Blount Plow Works (Railroad), Evansville, Ind.
Brinly-Hardy Co., Louisville, Ky.
Bucher & Gibbs Plow Co., Canton, O.
Carnegie Plow & Mfg. Co. ("Carnegie Princess"), Carnegie, Pa.
Case, J. I. Plow Works, Racine, Wis.
Climax Road Machine Co., Marathon, N. Y.
Collins Plow Co. (Boss & Giant, 2 to 12 Horses), Quincy, Ill.
Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
Deere & Co., Moline, Ill.
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO. (Grading, etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fort Madison Plow Co., Fort Madison, Ia.
Fresno Agricultural Works, Fresno, Cal.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (Road & Railroad), Albion, Mich
Good Roads Mach'y Co., Kennett Square, Pa.
Gowanda Agricultural Works (Grading), Gowanda, N. Y.
Johnson & Smith Co. (Railroad, etc.), Austin, Minn.
Kelly-Springfield Road Roller Co., Springfield, Ohio
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Kingman Plow Co., Peoria, Ill.
Lovejoy Co., Cambridge, N. Y.
Moline Plow Co., Moline, Ill.
Minneapolis Plow Works, Minneapolis, Minn.
Munnsville Plow Co. ("Hercules"), Munnsville, N. Y.
Oliver Chilled Plow Co., South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Rock Island Plow Co., Rock Island, Ill.
Russell Grader Mfg. Co. (Road), Minneapolis, Minn.
St. Joseph Plow Co., St. Joseph, Mo.
Shunk Plow Co., Bucyrus, O.
Sidney Steel Scraper Co., Sidney, O.
Smith & Sons Mfg. Co., Kansas City, Mo.
Stewart, A. T. Co., Carnegie, Pa.
Sturgis, W. B. & Son (road), Shelbyville, Ind.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Universal Road Machinery Co., Kingston, N. Y.
Vulcan Plow Co. (Road), Evansville, Ind.
Western Wheeled Scraper Co. (Rooter & Grading), Aurora, Ill.
Whitehurst, R. W. Co., Norfolk, Va.
Wiard Plow Co., Batavia, N. Y.

## 8574— Plows (Corn)

De Shay, D. H. (Arch Top Double), Elysburg, Pa.
La Crosse Plow Co., La Crosse, Wis.
Rock Island Plow Co., Rock Island, Ill.

## 8575—Plows (Disc or Rotary)

Atlanta Agricultural Works, Atlanta, Ga.
Avery, B. F. & Sons, Louisville, Ky.
Benicia Iron Works, Benicia, Cal.
Case, J. I. Plow Works, Racine, Wis.
Chattanooga Plow Co., Chattanooga, Tenn.
Chattanooga Implement & Mfg. Co., Chattanooga, Tenn.
Cutaway Harrow Co. (Disc Sulky), Higganum, Conn.
Danielsen Implement Co., Independence, Mo.
Deere & Co., Moline, Ill.
Disc Grader & Plow Co., Minneapolis, Minn.
Eagle Mfg. Co., Kansas City, Mo.
Emerson-Brantingham Co., Rockford, Ill.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Grand Detour Plow Co., Dixon, Ill.
Houser & Haines Mfg. Co., Stockton, Cal.
Kingman Plow Co., Peoria, Ill.
La Crosse Plow Co., La Crosse, Wis.
Moline Plow Co. (Rotary), Moline, Ill.
Oliver Chilled Plow Works, So. Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Racine-Sattley Co. ("Sattley", "Hancock Jr."), Springfield, Ill., & Racine, Wis.
Rock Island Plow Co., Rock Island, Ill.
Sanders, Newell Plow Co., Chattanooga, Tenn
South Bend Chilled Plow Co., South Bend, Ind
Spaulding Robbins Disc Plow Co., San Francisco, Cal
Syracuse Chilled Plow Co., Syracuse, N. Y.
Texas Disc Plow Co., Dallas Tex.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Volunteer Disc Plow Co., Chattanooga, Tenn.

## 8576— Plows (Ditching)

American Road Machine Co., Kennett Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Hench & Dromgold Co. (Inc.), York, Pa.
Larimer Mfg. Co., Eola, Ill.
Munnsville Plow Co., Munnsville, N. Y.
Parlin & Orendorff Co., Canton, Ill.
St. Joseph Plow Co., St. Joseph, Mo.

## 8577— Plows (Gang)

American Plow Co. (All Steel), Madison, Wis
Avery, B. F. & Sons, Louisville, Ky.
Benicia Iron Works, Benicia, Cal.
Bucher & Gibbs Plow Co., Canton, O.
Case, J. I. Plow Works, Racine, Wis.
Coffeyville Implement & Mfg. Co., Coffeyville, Kan.
Collins Co., Collinsville, Conn.
Collins Plow Co., Quincy, Ill.
Cutaway Harrow Co. (Disc), Higganum, Conn.
Danielson Implement Co., Independence, Mo.
Deere & Co. (Disc), Moline, Ill.
Donaldson Bros., Mount Clemens, Mich.
Eagle Mfg. Co., Muskogee, Okla.
Emerson-Brantingham Co., Rockford, Ill.
Farquhar, A. B. Co., York, Pa.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. ("Gale," "Daisy," "Great West"), Albion, Mich.
Geiser Mfg. Co., Waynesboro, Pa.
Grand Detour Plow Co. Dixon, Ill.
Greenville Implement Co. (Walking), Greenville, Mich.
Hapgood Plow Co., Alton, Ill.
Janesville Machine Co., Janesville, Wis.
Keystone Iron Works, Los Angeles, Cal.
Kingman Plow Co., Peoria, Ill.
La Crosse Plow Co., La Crosse, Wis.
Minneapolis Plow Works, Minneapolis, Minn.
Moline Plow Co. ("Flying Dutchman" Engine, Moldboard & Disc), Moline, Ill.
Monmouth Plow Co., Monmouth, Ill.
Moore Plow & Implement Co., Greenville, Mich.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Peppler, Thomas, Hightstown, N. J.
Peru Plow & Wheel Co., Peru, Ill.
Racine-Sattley Co. ("Sattley", "Stawana" "Hummer"), Springfield, Ill., & Racine, Wis.
Rockford Mfg. Co. ("Farm Queen," "Rockford"), Rockford, Ill.
Rock Island Plow Co., Rock Island, Ill.,
Rock Island Plow Co. ("Liberty", Rock Island Special"), Rock Island, Ill.
Rowell, I. B. Co., Menominee Falls, Wis.
Shaw, H. C. Co., Stockton, Cal.
South Bend Chilled Plow Co. ("Casaday", High Lift), South Bend, Ind.
Spalding Tilling Machine Co. ("Spalding", Deep Tilling), Cleveland, O.
Sparta Plow Works, Sparta, Ill.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis
Toledo Plow Co., Toledo, O.
Wilder-Strong Implement Co., Monroe, Mich.

## 8578—Plows (Gang, Steam)

Avery Co. ("Avery"), Peoria, Ill.
Benicia Iron Works, Benicia, Cal.
Deere & Co., Moline, Ill.
Geiser Mfg. Co., Waynesboro, Pa.
La Crosse Plow Co., La Crosse, Wis
Milton Garvin Steam Plow Co., Stafford, Kan.
Moline Plow Co., Moline, Ill.
Parlin & Orendorff Co., Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Reeves & Co. (Engine & Hand Lift), Columbus, Ind.
Syracuse Chilled Plow Co., Syracuse, N. Y.

## 8579— Plows (Gang, Wheel)

Avery, B. F. & Sons, Louisville, Ky.
Bucher & Gibbs Plow Co., Canton, O.
Case, J. I. Plow Works, Racine, Wis.
Deere & Co., Moline, Ill.
Donaldson Bros., Mt. Clemens, Mich.
Farquhar, A. B. Co., (Ltd.), York, Pa.
Hapgood Plow Co., Alton, Ill.
Houser & Haines Mfg. Co. ("Stockton"), Stockton, Cal.
Keystone Farm Machine Co., York, Pa.
La Crosse Plow Co., La Crosse, Wis.
Moline Plow Co., Moline Ill.
Moore Plow & Implement Co., Greenville, Mich.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Racine-Sattley Co., Springfield, Ill.
Rock Island Plow Co., Rock Island, Ill.
Rowell, I. B. Co., Menomonee Falls, Wis.
Shaw, H. C. Co. ("Stockton Reversible"), Stockton, Cal.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Wiard Plow Co., Batavia, N. Y.

## 8580— Plows (Garden)

Allen, S. L. & Co., Denckla bldg, Phila, Pa.
Akron Cultivator Co., Akron, O.
Ames Plow Co., Quincy Hall, Boston, Mass.
Atlanta Agricultural Works, Atlanta, Ga.
Avery, B. F. & Sons, Louisville, Ky.
Bacon Mfg. Co., Pontiac, Mich
Bateman Mfg. Co., Grenloch, N. J.

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Black, Geo. H., Buchanan, Mich.
Bridgewater Plow Corporation, Bridgewater, Va.
Brinly-Hardy Co., Louisville, Ky.
Brown Mfg. Co., Zanesville, O.
Burch Plow Works Co., Crestline, O.
Case, J. I. Plow Works, Racine, Wis.
Columbia Planter Co. ("Columbia"), Springfield, Ohio
Crescent Forge & Shovel Co. (Wheel) Havana, Ill.
Deere & Co., Moline, Ill.
Deuscher, H. P. Co., Hamilton, O.
Dutton, E. Q. & Co., Cato, N. Y.
Empire Plow Co., Cleveland, O.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co., Albion, Mich.
Greenville Implement Co., Greenville, Mich.
Henry & Allen, Auburn, N. Y.
Hess Mfg. Co., Nappanee, Ind.
Jackson Mfg. Co., Jackson, O.
Leader Plow Co., Staunton, Va.
Lean, Roderick Mfg. Co., Mansfield, O.
Mobile Implement Mfg. Co., Mt. Gilead, O.
Monmouth Plow Co., Monmouth, Ill.
Moore Plow & Implement Co., Greenville, Mich.
National Drill Co., Cambridge City, Ind.
Ohio Implement Co., Bowling Green, O.
Parlin & Orendorff Co., Canton, Ill.
Rock Island Plow Co., Rock Island, Ill.
Sears, Albert H., Plano, Ill.
Southern Plow Co., Columbus, Ga.
Spring Grain Drill Mfg. Co., Peru, Ind.
Standard Garden Tool Co., Montrose, Ia.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thornburgh Mfg. Co. ("Climax"), Bowling Green, O.
Towers & Sullivan Mfg. Co., Rome, Ga.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.
Whitehurst, R. W. Co., Norfolk, Va.
Wiard Plow Co., Batavia, N. Y.

## 8581— Plows (Grooving)

Ohio Tool Co. (Panel, etc.), Columbus, O.
Sandusky Tool Co. (Panel Plows, Plow Arms, etc.), Sandusky, O.

## 8582— Plows (Gutter)

Strom & Sanford Co. (For Cleaning Sand, Mud, etc., from Street Gutters), 18 W 34th, New York

## 8583— Plows (Hop)

Adams, S. & Son, Rome, N. Y.
Deere & Co., Moline, Ill.
Dutton, E. Q. & Co., Cato, N. Y.
Gale Mfg. Co., Albion, Mich.
Gowanda Agricultural Works, Gowanda, N. Y.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Whitehurst, R. W. Co., Norfolk, Va.

## 8584— Plows (Ice)

Ames Plow Co., Quincy Hall, Boston, Mass.
Bodenstein, J. G. & Co., Staatsburg, N. Y.
Dernell, H. F. & Co., Athens, N. Y.
Dorsch, Jno. & Sons, Milwaukee, Wis.
Gerlach, Peter Co., Cleveland, O.
Gifford-Wood Co., Hudson, N. Y. & Arlington, Mass.
Grumman, G. B., Branchville, Conn.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Oshkosh Mfg. Co., Oshkosh, Wis.
Woodhouse, J. S., 191 Water, New York

## 8585— Plows (Locomotive)

Western Wheeled Scraper Co., Aurora, Ill.

## 8586— Plows (Potato)

Brinly-Hardy Co., Louisville, Ky.
Deere & Co., Moline, Ill.
Gale Mfg. Co., Albion, Mich.
Hartig-Becker Plow Co., Evansville, Ind.
Hench & Dromgold Co. (Inc.), York, Pa.
La Crosse Plow Co., La Crosse, Wis.
Parlin & Orendorff Co., Canton, Ill.
Whitehurst, R. W. & Co., Norfolk, Va.

## 8586a— Plows (Road)

(See Plows, Contractors')

## 8587— Plows (Shovel)

Akron Cultivator Co., Akron, O.
Avery, B. F. & Sons (With Jumping Coulters), Louisville, Ky.
Becker, J. E. Appleton, Wis.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Benicia Iron Works, Benicia, Cal.
Blount Plow Works, Evansville, Ind.
Brinly-Hardy Co., Louisville, Ky.
Bristol & Gale Co., Chicago, Ill.
Brown-Manly Plow Co., Malta, O.
Brown Mfg. Co., Zanesville, O.
Bucher & Gibbs Plow Co., Canton, O.
Burch Plow Works, Crestline, O.
Case, J. I. Plow Works, Racine, Wis.
Chattanooga Plow Co., Chattanooga, Tenn.
Clore's, Wm. Sons, Rising Sun, Md.
Davidson-Dietrich Plow Co., Evansville, Ind.
Deere & Co., Moline, Ill.
Donaldson Bros., Mount Clemens, Mich.
Dutton, E. Q. & Co., Cato, N. Y.
Eagle Mfg. Co., Kansas City, Mo.
Eddy, W. Plow Co., Greenwich, N. Y.
Emerson-Brantingham Co., Rockford, Ill.
Empire Plow Co., Ensley, Ala.
Empire Plow Co., Cleveland, O.
Eureka Mower Co., Utica, N. Y.
Everts Mfg. Co., Meridian, N. Y.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fetzer, Wm. Co., Springfield, Ill.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. ("New Era," "Gale," Single & Double Shovel, also Wing Shovel), Albion, Mich.
Gowanda Agricultural Works, Gowanda, N. Y.
Grand Detour Plow Co., Dixon, Ill.
Greenville Implement Co., Greenville, Mich.
Hartig-Becker Plow Co., Evansville, Ind.
Hartman Mfg. Co., Vincennes, Ind.
Hench & Dromgold Co. (Inc.), York, Pa.
Johnson & Smith, Austin, Minn.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
La Crosse Plow Co., La Crosse, Wis.
Lean, Roderick Mfg. Co., Mansfield, O.
Lehr Agricultural Co., Fremont, O.
Le Roy Plow Co., Le Roy, N. Y.
Lovejoy Co., Cambridge, N. Y.
Mishawaka Plow Co., Mishawaka, Ind.
Moline Plow Co. (Single & Double), Moline, Ill.
Moore Plow & Implement Co., Greenville, Mich.
Munnsville Plow Co., Munnsville, N. Y.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Ohio Cultivator Co., Bellevue, O.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Peek, S. H., East Aurora, N. Y.
Peru Plow & Wheel Co. (Single & Double), Peru, Ill.
Rock Island Plow Co. (Single & Double), Rock Island, Ill.
St. Joseph Plow Co., St. Joseph, Mo.
Sargent, Osgood & Roundy Co., Randolph, Vt.
Shunk Plow Co., Bucyrus, O.
South Bend Chilled Plow Co., South Bend, Ind.
Southern Plow Co., Columbus, Ga.
Sparta Plow Works, Sparta, Ill.
Syracuse Chilled Plow Co. (Blades & Wings of Steel), Syracuse, N. Y.
Thompson, J. & Son Mfg. Co., Beloit, Mich.
Toledo Plow Co., Toledo, O.
Vulcan Plow Co., Evansville, Ind.
White, S. R. & Bro., Norfolk, Va.

## 8588— Plows (Snow)

(See also Snow Brooms & Sweepers, Street Railway; also Street Railway Sweeping Machines)

American Locomotive Co. ("Rotary"), 30 Church, New York
Baker Mfg. Co., Fisher bldg., Chicago, Ill.
Bloomsburg Car Mfg. Co., Bloomsburg, Pa.
Brill, J. G. Co. (Electric & Nose & Shear Board Type), Phila., Pa.
Bucyrus Co. (Rotary), South Milwaukee, Wis.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York
(See adv. index & branch offices, end of book)
Grothe, John J. (Electric Railway), Woburn Mass.
Kalamazoo Railway Supply Co. ("Root" Scraper), Kalamazoo, Mich.
MARSH CO. (Sidewalk), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Russel Car & Snow Plow Co., Ridgway, Pa.

## 8589— Plows (Sub-Soil)

Ames Plow Co., Quincy Hall, Boston, Mass.
Avery, B. F. & Sons, Louisville, Ky.
Blount Plow Works, Evansville, Ind.
Brinly-Hardy Co., Louisville, Ky.
Bucher & Gibbs Plow Co., Canton, O.
Case, J. I. Plow Works, Racine, Wis.
Deere & Co., Moline, Ill.
Farquhar, A. B. Co., Ltd., York, Pa.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. ("Gale," Steel), Albion, Mich.
Grand Detour Plow Co., Dixon, Ill.
Hall, Jas. H. Plow Co., Maysville, Ky.
Moline Plow Co. (Walking), Moline, Ill.
Munnsville Plow Co., Munnsville, N. Y.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Wiard Plow Co., Batavia, N. Y.

## 8590—Plows (Sulky, Reversible)

Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Cutaway Harrow Co. (Disc), Higganum, Conn.
Deere & Co., Moline, Ill.
Eddy, W. Plow Co., Greenwich, N. Y.
Lovejoy Co., Cambridge, N. Y.
Northwestern Steel & Iron Works, Eau Claire, Wis.
Oliver Chilled Plow Works, So. Bend, Ind.
Racine-Sattley Co. ("Sattley"), Springfield, Ill., & Racine, Wis.
Sargent, Osgood & Roundy Co., Randolph, Vt.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Wiard Plow Co., Batavia, N. Y.

## 8591—Plows (Sulky, Riding or Wheel)

Adams Bros. Co., Findlay, O.
American Plow Co., Madison, Wis.
Avery, B. F. & Sons (Sulky, etc.), Louisville, Ky.
Bateman Mfg. Co., Grenloch, N. J.
Belcher & Taylor Agricultural Tool Co. (Reversible Sulky), Chicopee Falls, Mass.
Benicia Iron Works, Benicia, Cal.
Blount Plow Works (Sulky), Evansville, Ind.
Bucher & Gibbs Plow Co., Canton, O.
Case, J. I. Plow Works, Racine, Wis.
Chattanooga Plow Co., Chattanooga, Tenn.
Coffeyville Implement & Mfg. Co., Coffeyville, Kan.
Collins Plow Co., Quincy, Ill.
Danielson Implement Co., Independence, Mo.
Deere & Co., Moline, Ill.
Eagle Mfg. Co., Kansas City, Mo.
Eddy, W. Plow Co., Greenwich, N. Y.
Emerson-Brantingham Co. (Sulky), Rockford, Ill.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fort Madison Plow Co., Fort Madison, Ia.
Frye, John J., Portland, Me.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co., Albion, Mich.
Grand-Detour Plow Co., Dixon, Ill.
Hapgood Plow Co., Alton, Ill.
Hench & Dromgold Co. (Inc.), York, Pa.
Janesville Machine Co., Janesville, Wis.
Kingman Plow Co. (Sulky, etc.), Peoria, Ill.
La Crosse Plow Co., La Crosse, Wis.
Luthy & Co., Peoria, Ill.
Minneapolis Plow Works, Minneapolis, Minn.
Mishawaka Plow Co., Mishawaka, Ind.
Moline Plow Co., Moline, Ill.
Monmouth Plow Co., Monmouth, Ill.
Munnsville Plow Co., Munnsville, N. Y.
Ohio Cultivator Co., Bellevue, O.
Oliver Chilled Plow Works, South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Racine-Sattley Co. ("Sattley", Hummer" "Royal"), Springfield, Ill., & Racine, Wis.
Rockford Mfg. Co. ("Farm King," "Rockford," "Rockford, Jr.," "Rockford King") Rockford, Ill.
Rock Island Plow Co. ("Liberty Jr." "Rock Island Special"), Rock Island, Ill.
Rowell, I. B. Co., Menominee Falls, Wis.
St. Joseph Plow Co., St. Joseph, Mo.
Sioux Falls Plow Co., Sioux Falls, S. Dak.
South Bend Chilled Plow Co. ("Pilot", "Casaday" Foot Light), South Bend, Ind.
Sparta Plow Works, Sparta, Ill.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Toledo Plow Co., Toledo, O.
Vulcan Plow Co. (Sulky), Evansville, Ind.
Wiard Plow Co., Batavia, N. Y.

## 8592—Plows (Swivel, Reversible & Hillside)

Ames Plow Co. (Swivel and Hillside), Quincy Hall, Boston, Mass.
Avery, B. F. & Sons, Louisville, Ky.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Brinly-Hardey Co. (Hillside), Louisville, Ky.

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Bucher & Gibbs Plow Co. (Hillside & Reversible), Canton, O.
Columbia Plow Works, Copake Iron Works, N.Y.
Deere & Co., Moline, Ill.
Eddy, W. Plow Co. (Hillside & Swivel), Greenwich, N. Y.
Gowanda Agricultural Works, Gowanda, N. Y.
Hall, Jas. H. Plow Co. (Hillside), Maysville, Ky.
Hench & Dromgold Co., Inc. (Hillside), York, Pa.
Leroy Plow Co. (Hillside & Flatland), Leroy, N. Y.
Moline Plow Co., Moline, Ill.
Munnsville Plow Co., Munnsville, N. Y.
Oliver Chilled Plow Co. (Hillside), South Bend, Ind.
Parlin & Orendorff Co., Canton, Ill.
South Bend Chilled Plow Co. (Reversible, Hillside, etc.), South Bend, Ind.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Vulcan Plow Co. (Hillside), Evansville, Ind.
Wiard Plow Co. (Hillside), Batavia, N. Y.

## 8593—Plows (Unloading)

Bucyrus Co., So. Milwaukee, Wis.

## 8594—Plows (Wheel Walking)

Collins Co., Collinsville, Conn.
Deere & Co., Moline, Ill.
Hench & Dromgold Co. (Inc.), York, Pa.
Messinger Mfg. Co., Tatamy, Pa.
Racine-Sattley Co. ("Wonder"), Springfield, Ill., & Racine, Wis.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.

## 8595—Plugs (Automatic Boat)

Lane & DeGroot Co., Long Island, N. Y.

## 8596—Plugs (Bath & Basin)

American Pin Co., Waterbury, Conn.
Campbell, J. B. Brass Works, Erie, Pa.
Central Brass Mfg. Co., Cleveland, O.
Climax Specialty Co. ("Climax"), Ann Arbor, Mich.
Crescent Mfg. Co., Scottdale, Pa.
Detroit Sanitary Supply Co., Detroit, Mich.
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Fries & Co., Buffalo, N. Y.
Frost Mfg. Co., Kenosha, Wis.
Glauber Brass Mfg. Co., Cleveland, O.
Haydenville Co., Haydenville, Mass.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Hodgdon Brass Works, Boston, Mass.
Homer Brass Works, 231 Race, Phila., Pa.
Humphreys Mfg. Co., Mansfield, O.
Jenkins Mfg. Co. ("Rex"), 20 Vesey, New York
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
Mechanical Rubber Co. ("Monarch"), 230 Randolph, Chicago, Ill.
Mueller, H. Mfg. Co., Decatur, Ill.
Mulconroy Co., Inc., 722 Arch, Phila., Pa.
Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.
Murphy Specialty Co. ("Murphy"), Milwaukee, Wis.
Park & McKay Co., Detroit, Mich.
Peck Bros. & Co., New Haven, Conn.
Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.
Reading Foundry & Supply Co., Reading, Pa.
Richardson, Edro Brass Co., Baltimore, Md.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Speakman Pipe & Supply Co., Wilmington, Del.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins, E. Mfg. Co., Springfield, Mass.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.
Thomas Brass & Iron Co., Waukegan, Ill.
Trenton Brass & Machine Co., Trenton, N. J.
Waterbury Mfg. Co., Waterbury, Conn.
Weir & Craig Mfg. Co. ("W. & C. Mfg. Co."), 2421 Wallace, Chicago, Ill.
Wise, J. B., Watertown, N. Y.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

## 8597— Plugs (Boiler Flue)

Dame & Townsend Co., Cliff & Fulton, New York
Webb, Elisha & Son ("Handy"), 43 S Water, Phila., Pa.

## 8598— Plugs (Brass)

**AMERICAN INJECTOR CO., Detroit,** Mich. (See adv. index, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crescent Machine Co. (Radiator), Detroit, Mich.
**DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich.** (See adv. index, end of book)
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Fries & Co., Buffalo, N. Y.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Imperial Brass Mfg. Co. (Cylinder, for Automobile & Motor Boat), 444 S Jefferson, Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co., Pittsburg, Pa.
Kokomo Brass Works (Brass Cleanout), Kokomo, Ind.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
**McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich.** (See adv. index, end of book)
Miller Metal Work Co. ("Miller" Split), Jersey City, N. J.
Mueller, H. Mfg. Co., Decatur, Ill.
**NATIONAL-ACME MFG. CO., 7500 Stanton av., S. E., Cleveland, O.** (See adv. index & branch offices, end of book)
National Tube Co. (Also Cast Iron), Pittsburg, Pa.
Pittsburg Valve & Fitting Co., Barberton, O.
Queen City Brass & Iron Works, Cincinnati, O.
Richardson, Edro Brass Co., Baltimore, Md.
Sanitary Co. (Wash Tray, etc.), Cleveland, O.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Trenton Brass & Machine Co. ("Trenton" Wash Tray), Trenton, N. J.
Walworth Mfg. Co., Boston, Mass.
Williams, D. T. Valve Co., Cincinnati, O.
Wolverine Brass Works, Grand Rapids, Mich.

## 8599— Plugs (Cast Iron)

Abendroth Bros., 109 Beekman, New York
American Fdry. & Mfg. Co., St. Louis, Mo.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Hays Mfg. Co., Erie, Pa.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
Newbury Mfg. Co., Monroe, N. Y.
Pittsburg Valve & Fittings Co., Barberton, O.
Walworth Mfg. Co., Boston, Mass.

## 8600—Plugs (Conduit Sealing)

Phila. Electrical & Mfg. Co., 228 N 31st, Phila., Pa.

## 8601— Plugs (Drift)

**BUFFUM TOOL CO. (Plumbers'),** Louisiana, Mo. (See adv. index & branch offices, end of book)

## 8602— Plugs (Expansion)

Yonkers Specialty Co. ("Metropolitan," Creosoted Wooden for Making Attachments to Walls), Yonkers, N. Y.

## 8603—Plugs (Flush & Receptacle)

Adams, F. Electric Co., St. Louis, Mo.
Arrow Electric Co. ("Midget"), Hartford, Conn.
Bryant Elec. Co. ("Chapman"), Bridgeport, Conn.
Clancy, J. R., Syracuse, N. Y.
Crouse-Hinds Co., Syracuse, N. Y.
Cutter Electrical & Mfg. Co., 19th & Hamilton, Phila., Pa.
Dale Co., 9th av & 13th, New York
Electric Service Supplies Co., 1020 Filbert, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**HART MFG. CO. ("Diamond H"),** Hartford, Conn. (See adv. index, end of book)
Hart & Hegeman ("H. & H."), Hartford, Conn
Hatzel & Buehler ("H. & B."), 571 5th av, New York
Hubbell, Harvey (Inc.), Bridgeport, Conn.
Irish, W. F. Elec. Co. ("Shamrock," Floor), 60 Cortlandt, New York
Loeffelhols & Co. ("Gibbs," for Cars), Milwaukee, Wis
Machen & Meyer Electrical Mfg. Co. ("M. & M."), 12th & Buttonwood, Phila., Pa
Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
Novelty Electric Co. (Fibre), 50 N 4th, Phila., Pa.
Paiste, H. T. Co. ("Felding"), 32d & Arch, Phila., Pa.
Pringle Electrical Mfg. Co. ("New Style"), 1906 N 6th, Phila., Pa.
Russell & Stoll Co., 48 Cliff, New York
Stanley & Patterson ("Simplex"), 23 Murray, New York
Trumbull Electric Mfg. Co., Plainville, Conn.

## 8604— Plugs (Fusible)

**AMERICAN INJECTOR CO., Detroit,** Mich. (See adv. index, end of book)
Ashcroft Mfg. Co., 85 Liberty, New York
Belfield, H. & Co., 435 N Broad, Phila, Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Boston Brass Co., Boston, Mass.
Buckeye Iron & Brass Works, Dayton, O.
Canton Brass & Machine Co., Canton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Darling Pump & Mfg. Co., Williamsport, Pa.
Duluth Brass Works, West Duluth, Minn.
Exeter Brass Works, Exeter, N. H.
Farnan Brass Works, Cleveland, O.
Fewlass-Leen Brass & Iron Co., Cincinnati, O.
Garratt, W. T. & Co., San Francisco, Cal.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
General Fire Extinguisher Co., Providence, R. I.
Glasgow Iron Works & Supply Co. ("Phillips"), 28 West, New York
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila, Pa.
Haydenville Co., Haydenville, Mass.
Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co., 1801 Diversey blvd, Chicago, Ill.
Kelly & Jones Co., Pittsburg, Pa.
Kinsey & Mahler Co., Peoria, Ill.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co., 56 John, New York
National Supply Co., Toledo, O.
Ohio Injector Co., Wadsworth, O.
Perkes, Charles (Est. of), 627 Arch, Phila, Pa.
Pittsburg Valve, Foundry & Construction Co., 26th & A. V. R'y, Pittsburg, Pa.
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron Works, Cincinnati, O.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Star Brass Mfg. Co., Boston, Mass.
Trauter Mfg. Co., Pittsburg, Pa.
Van Duzen, E. W. Co., Cincinnati, O.
Walworth Mfg. Co. ("Cole's" Fusible Boiler), Boston, Mass.

## 8605—Plugs (Gas & Water Main)

**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. See adv. index, end of book)

## 8606—Plugs (Laundry Tray)

Acme Brass Works, Cleveland, O.
American Foundry & Mfg. Co., St. Louis, Mo.
Central Brass Mfg. Co., Cleveland, O.
Dearborn Brass Co., Cedar Rapids, Iowa
Diamond Mfg. Co., Detroit, Mich.
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Fries & Co., Buffalo, N. Y.
Haines, Jones & Cadbur Co., 1128 Ridge av, Phila., Pa.
Haydenville Co., Haydenville, Mass.
Salem Brass & Iron Mfg. Co., Salem, N. J.
Sanitary Co. ("Paragon"), Cleveland, O.
Trenton Brass & Machine Co., Trenton, N. J.
Union Metal Works, Chelsea, Mass.
Wolverine Brass Works, Grand Rapids, Mich.

## 8607—Plug (Ordinary Attachment)

Benjamin Electric Mfg. Co. ("Wizard"), 128 S Sangamon, Chicago, Ill.
Bryant Electric Co., Bridgeport, Conn.
Crouse-Hinds Co., Syracuse, N. Y.
Electric Goods Mfg. Co. ("Howes"), Boston, Mass.
Freeman, E. H. Electric Co., Trenton, N. J.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

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Hubbell, Harvey (Inc.), Bridgeport, Conn.
Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
Marshall Electric Co. ("M-S"), Boston, Mass.
Mercer Electric Mfg. Co., Trenton, N. J.
Paiste, H. T. Co. ("Pushin"), 32d & Arch, Pass & Seymour, Solvay, N. Y. Phila., Pa.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Stanley & Patterson ("New Code"), 23 Murray, New York
Tregoning Electric Mfg. Co., Cleveland, O.

## 8608— Plugs (Paper Mill)

Peters', Jno. M. Sons (Wood), Bleecker, N. Y.

## 8609— Plugs (Radiator)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## 8610—Plugs (Roll Turners')

**TRETHEWEY, SAM'L & CO., Ltd.,** 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 8611—Plugs (Smoke Testing)

**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)

## 8612—Plugs (Soil Pipe Testing)

**BERNZ, OTTO, 21 Ashland av, New-**ark, N. J. (See adv. index, end of book)
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Brown, J. H., Keene, N. H.
Clark Bros. ("Acme"), 218 S 12th, Phila., Pa.
Desper, H. A. Mfg. Co., Worcester, Mass.
Drummond, M. J. & Co., 182 B'way, New York
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
Plugh, August T., Hoboken, N. J.
Smith, E. L. & Co. ("Cooper"), Boston, Mass.
Walworth Mfg. Co., Boston, Mass.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.

## 8613— Plugs (Spark)

American Coil Co. (Double Insulated Mica Cored), Foxboro, Mass.
American Machine Mfg. Co. ("Perfection"), South Braintree, Mass.
Anderson Spark Plug Co., 100 Boylston, Boston, Mass.
Anderson, J. C. Mfg. Co., Jersey City, N. J.
Arc-Toledo Spark Plug, 140 Michigan, Toledo, O.
Atlantic Electrical Co., Amesbury, Mass.
Automobile Equipment Co., 260 Jefferson av, Detroit, Mich.
Automobile Supply Co., Mich. bldg, Chicago, Ill.
Auto & Power Appliance Co., Cleveland, O.
Barber, A. S., Brooklyn, N. Y.
Bosch Magneto Co. ("Bosch"), 160 W 56th, New York
Bradley, C. E. Motor Co., 268 Diamond, Phila.,
Brennan Mfg. Co., Syracuse, N. Y. Pa.
Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
Canton Automobile Supply Co. ("Kankaroo"), Canton, O.
Central Appliance Co. ("F. P. Sight-Feed Safety Gap), Huntsville, Ala.
Champion, Albert Co. ("Nieuport." Imported), 36 Whittier, Rex., Boston, Mass.
Champion Ignition Co., Flint, Mich.
Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.
DELTA MFG. CO., Bloomfield, N. J.
De Lux Mfg. Co., 1515 Seneca, Buffalo, N. Y.
Diamond Porcelain Co. (Porcelain), Trenton, N. J.
Doherty, H. B., Binghamton, N. Y.
Dow Mfg. Co., Braintree, Mass.
Duplex Ignition Co. (Inc.), ("Duplex"), 307 36th, New York
Elbridge Electrical Mfg. Co. ("Elbridge"), Elbridge, N. Y.
Electric & Auto Co. ("Orswell"), Amesbury, Mass.
Fischer Ignition Co., Cincinnati, O.
Geer, Harry R., Co., 1017 Pine, St. Louis, Mo.
Gerson-Carey Co., Lansing, Mich.
Grant Mfg. & Mach. Co. ("Empire"), Bridgeport, Conn.
Hamblin El. Co., 25 Calendar, Providence, R. I.
Hardy, R. E. Co. ("Sta-Rite"), ("Gotham"), 1735 Michigan av, Chicago, Ill.
Hartford Machine Screw Co. (Automobile), Hartford, Conn.
Herz & Co., 295 Lafayette, New York
Hubbell, Harvey (Inc.), Bridgeport, Conn.
Jacobson-Brandow Co., Pittsfield, Mass.
Jeffrey-De Witt Co., "Reliance" Spark in Water, Newark
Lavalette, Henri D. ("Elsemann" & "Lavalette"), 112 W 42d, New York
Lemke Electric Co. (Mica & Porcelain), Milwaukee, Wis.
Lipman Mfg. Co., Beloit, Wis.
McCanna Mfg. Co., 56 N Jefferson, Chicago, Ill.
McCord & Co. ("McCord"), Old Colony bldg, Chicago, Ill.
Mayo Damper Co., Pottstown, Pa.
Mezger, C. A., 1759 B'way, New York
Miller, Chas. E., 101 Reade, New York
Miller Mfg. Co., Peekskill, N. Y.
Monroe Electrical Mfg. Co., Monroe, Mich.
Mosler, A. R. & Co. (Inc.) ("Spit-Fire"), 163 W 29th, New York
Never-Miss Spark Plug Co., Lansing, Mich.
Oakes & Dow Co. ("Comet"), 15 Chardon, Boston, Mass.
Orswell Igniter Co., 95 Milk, Boston, Mass.
Pittsfield Spark Coil Co. ("Jewell" Mica), Dalton, Mass.
Post & Lester Co. ("E. I. C."), Hartford, Conn.
Rajah Auto Supply Co., Bloomfield, N. J.
Roche, William, Jersey City, N. J.
Rubay, Leon Auto Ignition Supply Co., 229 W 54th, New York
Schug Electric Mfg. Co., Detroit, Mich.
Seidler-Miner Electric Co., 205 Jefferson av, Detroit, Mich.
Shain, Chas. D., 70 Murray, New York
Splitdorf, C. F., 261 Walton av., New York
Springtight Terminal Co. ("New Era"), Lansing, Mich.
Taylor-Fountain Eng. Co. ("Morse"), 10 Commercial av, Newark, N. J.
Thomas, W. K., 1876 B'way, New York
Tritt Electrical Mfg. Co., South Bend, Ind.
Triumph Engineering Co., 1046 Herkiner, Brooklyn, N. Y.
Twentieth Century Mfg. Co., 19 Warren, New York
Uncas Specialty Co., Norwich, Conn.
United Electrical Mfg. Co. ("Crescent"), 1 B'way, New York
Wachman, Robert, 372 Michigan av., Detroit, Mich., ("Wachman" Sure Fire)
Western Electric Co., Chicago, Ill., & 57 Bethune, New York
Willis, E. J. Co. ("Yankee" & "H. M."), 8 Park pl, New York

## 8614—Plugs (Stage & Receptacle)

Clancy, J. R., Syracuse, N. Y.
Chase-Shawmut Co. ("Cushing"), Newburyport, Mass.
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)
Globe Electric Co., 419 W 42d, New York
Lang, J. Electric Co., 116 N Lincoln, Chicago, Ill.
Menchen, Jos. Electric Co., 360 W 50th, New York
Metropolitan Elec. Stage Lighting Co. ("Olen-in"), 123 W 40th, New York
Newgaard, Henry & Co. ("Newgaard"), 953 Wash'n boul, Chicago, Ill.
Pennefather, J. S., 105 W 39th, New York
Russell & Stoll Co., 48 Cliff, New York
Stanley & Patterson ("Fielding," "Hubbell"), 23 Murray, New York
Superior Electric Co., 520 W 40th, New York

## 8615— Plugs (Switch)

**DELAWARE HARD FIBRE CO. (Fibre),** Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)

## 8616— Plugs (Tie)

Goldie, Mm., Wilkinsburg Sta., Pittsburg, Pa.
Porter-Morse (Elm, Cedar & Oak), Saginaw, Mich.

## 8617— Plugs (Wall)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
Carlon Sales Co. ("Carlon" Steel), Oskaloosa, Ia.
Church Appliance Mfg. Co. ("Boss"), La Salle, Ill.
Dowman-Dozier Mfg. Co., Atlanta, Ga.
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)
Hunt Metal Corner Co., Westboro, Mass.
Hubbell, Harvey (Inc.), Bridgeport, Conn.
Monarch Mfg. Co. ("Monarch"), Grand Rapids, Mich.
**NIAGARA FALLS METAL STAMP-**ing Works (Galvanied), Niagara Falls, N. Y. (See adv. index, end of book)
Prescott, J. B. & Son ("Rutty" Metal), Webster, Mass.

## 8618— Plugs (Wood)

Bogert & Hopper, 162 William, New York
Estes, E. B. & Son, 74 Warren, New York
Michigan Bung Co., Detroit, Mich.
Peters', Jno. M. Sons, Bleecker, N. Y.
Portland Cooperage Co., Portland, Me.
Redlich Mfg. Co. (All Kinds), 637 W Oak, Chicago, Ill.
Sommer, Jno. Faucet Co., Newark, N. J.
Southern Bung Mfg. Co., Ludlow, Ky.
U. S. Bung Mfg. Co., 48 S 2d, Brooklyn, N. Y.

## 8619— Plugs (Wood Pipe)

Stephenson Mfg. Co., South Bend, Ind.

## 8620— Plugs & Feathers

**UNION ELEVATOR & MACHINE CO.** (Stone Hoisting, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 8621—Plugs & Patches (Tire Repair)

(See also Cement)
Diamond Rubber Co., Akron, Ohio
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Hartford Rubber Works Co., Hartford, Conn.
Michelin Tire Co. (Patches & Sleeves for Repairing Automobile Inner Tubes), Milltown, N. J.
Morgan & Wright (Inc.), Detroit, Mich.
Pneumatic Tire Plug Co., Danbury, Conn.
Tingler, Charles O. & Co., Rahway, N. J.

## 8622— Plumb Bobs

Bergman Tool Mfg. Co., Buffalo, N. Y.
**BERNZ, OTTO, 21 Ashland av, New-**ark, N. J. (See adv. index, end of book)
Braunsdorf-Miller Co., Elizabeth, N. J.
Brown & Sharpe Mfg. Co. ("Mercury"), Providence, R. I.
Chapin-Stephens Co., Pine Meadow, Conn.
**CRESCENT NOVELTY MFG. CO.** (Lead), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Dikeman Mfg. Co. ("Cant-Roll"), South Norwalk, Conn.
Disston, Henry & Sons, Tacony, Phila., Pa.
Goddell-Pratt Co., Greenfield, Mass.
Huebel Mfg. Co. (Bronze), Newark, N. J.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Keuffel & Esser Co., 127 Fulton, New York

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

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Kupferle, C. J. Foundry Co., St. Louis, Mo.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Leistner, Paul & Sons Mfg. Co. (Common Sense & Reversible), St. Charles, Mo.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Reading Hardware Co., Reading, Pa.
Ridgley-Trimmer Co., Springfield, O.
Russell & Erwin Mfg. Co., New Britain, Conn.
S. & I. Co. ("Perfect"), Springfield, Mass.
Sargent & Co., New Haven, Conn.
Stanley Rule & Level Co. (Adjustable), New Britain, Conn.
**STARRETT, L. S. CO. (Mercury** Steel), Athol, Mass. (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.
Tower & Lyon Co. (And Trammel Points), 95 Chambers, New York
Welch, T. F. & Co., Boston, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

## 8623— Plumbago

Asbury Graphite Mills Mills (H. M. Riddle, Prop.) (Miners & Refiners), Asbury, N. J.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's"** for Foundry Facings, Yacht Bottoms, Shot Polishing, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Hill & Griffith Co., Cincinnati, O.
Kelly, Thos. P. & Co. (Ceylon), 544 W 22d, New York
McCormick, J. S. Co., Pittsburg, Pa.
McCullough-Dalzell Crucible Co., Pittsburg, Pa.
Metal Mfg. Co. ("Ceylon"), 25th & Dickinson, Phila., Pa.
Obermayer, S. Co., Cincinnati, O.
Paterson, Boardman & Co., 10 Bridge, New York
Pettinos Bros., Bethlehem, Pa.
Ross-Tacony Crucible Co. (Flake & Powdered), Tacony, Phila., Pa.
Salomon, L. A. & Bro., 216 Pearl, New York
**SMITH, J. D. FOUNDRY SUPPLY CO.,** (Silver or Foundry), 1846 Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)
**SPRINGFIELD FACING CO. (Core Oil** & Core Compound), Springfield, Mass. (See adv. index, end of book)
Stein, Abe Co. (Ceylon), 97 Gold, New York
Stevens, Frederic B. (East India Flake), Detroit, Mich.
Taunton Crucible Co. (Pure Ceylon Graphite for Stove Dealers' Use), Taunton, Mass.
United States Graphite Co., Saginaw, Mich.

## 8624—Plumbago (Electrotyping)

**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)
International Acheson Graphite Co., Niagara Falls, N. Y.

## 8625— Plumbago (Yacht)

**DIXON, JOS. CRUCIBLE CO., Jersey** City, N. J. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

## 8626—Plumbers' Brass Goods Mfrs.

(See the Specific Article Required)

## 8627—Plumbers' Cabinet Work

(See Plumbers' Wood Work)

## 8628—Plumbers' Charts & Estimate Books

Starbuck, R. M. & Son, Hartford, Conn.

## 8629—Plumbers' Marble Work

(See also Marble Interior Work)

Alexander, Alex. G., 172 Larned, Detroit, Mich.
**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d, New York. (See adv. index, end of book)
Blatz & Kerbs Stone Co., Louisville, Ky.
Bowker, Torrey & Co., 55 Chardon, Boston, Mass.
Bradbury Marble Co., 1229 S B'way, St. Louis, Mo.
Buess, Wm., 316 E 95th, New York
Burlington Marble Co., Burlington, Vt.
Butler, Phillips H. & Co., 25 Haverhill, Boston, Mass.
Cascio, S., 797–803 Lexington av., Brooklyn, N. Y.
Christa Marble Co., 504 Lafayette av, Detroit, Mich.
Crosscup, D. L., cor 23d & Chestnut, Phila., Pa.
**Davidson Bros. Marble Co., ft of Orleans, Chicago, Ill.**
Empire City Marble Co., 90 West, New York
Eschmann, B. & J., 638 1st av, New York
Evans Marble Co., Baltimore, Md.
Fisher, Robt. C. Co., E 139th & Locust av, New York
Georgia Marble Finishing Works, Canton, Ga.
Grant Marble Co., Milwaukee, Wis.
Grob, German & Son, 502 W 35th, New York
Hall, Chas. E. & Co., East Cambridge, Mass.
Hilgartner Marble Co., Baltimore, Md.
Illinois Marble Co., Edwardsville, Ill.
Jacoby & Son Co., 2025 Market, Phila., Pa.
Jordan, Chas. H., 268 Division av, Brooklyn,
Kennesaw Marble Co., Marietta, Ga. N. Y.
Klaber, A., & Son, Long Island City, N. Y.
Lautz Co., Buffalo, N. Y.
Livingston, Jas., 163 E 88th, New York
Lloyd Bros. Co., Toledo, O.
McGratty & Sons, 313 Butler, Brooklyn, N. Y.
McLaury Marble Co., 103 Park av, New York
Marthens, Chester N., Marble Co., 53rd & Wallace, Chicago, Ill.
Maxwell & Dempsey, 277 Cherry, New York
Norcross Co., 1264 Riverbed, Cleveland, O.
Northwestern Marble & Tile Co., Minneapolis, Minn.
Peoria Stone & Marble Works, Peoria, Ill.
Pickel Marble & Granite Co., St. Louis, Mo.
Rutland Florence Marble Co., Rutland, Vt.
Rutland Marble Mfg. Co., Rutland, Vt.
Shaver, Jas., Granite & Marble Co., 506 7th, Milwaukee, Wis.
Shipway, J. H. & Bro., 136th & Locust av, New York
Sickles, Geo. B. & Co., Tate, Ga.
Standard Marble Works (John M. Mueller, Jr., Prop.), 706 W Front, Cincinnati, O.
Troy Bros. & Co., 975 Mass av, Rox., Boston, Mass.
Van Wyck & Collins, Poughkeepsie, N. Y.
Vermont Marble Co., Proctor, Vt.
Young, B. P. Co., Frick bldg, Pittsburg, Pa.

## 8630—Plumbers' Porcelain Ware Mfrs.

(See also Bath Tubs, Porcelain)

American Porcelain Co. (Solid Porcelain Ware) New Brighton, Pa.

## 8631—Plumbers' Rubber Goods

(See also Rubber Manufacturers)

Akron Rubber Co., Akron, O.
Alden Rubber Co., Barberton, O.
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Canfield, H. O. Co., Bridgeport, Conn.
Canfield Rubber Co. ("Redtex," "Blackrock"), Bridgeport, Conn.
Central Rubber & Supply Co., Indianapolis, Ind.
Combination Rubber & Belting Co., Bloomfield, N. J.
Consolidated Rubber Co., Trenton, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, Ohio
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Co., Trenton, N. J.
Manhattan Rubber Mfg. Co., Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York
Morgan & Wright (Inc.), Detroit, Mich.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Revere Rubber Co., 77 Bedford, Boston, Mass.
Schacht Rubber Mfg. Co., Huntington, Ind.
Springfield Tire & Rubber Co., Springfield, O.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Western Rubber Works, Goshen, Ind.

## 8632—Plumbers' Sanitary Earthenware Mfrs.

Abingdon Sanitary Mfg. Co., Abingdon, Ill.
Acme Sanitary Pottery Co., Trenton, N. J.
American Porcelain Co., New Brighton, Pa.
Bellmark Co., Trenton, N. J.
Camden Pottery Co., Camden, N. J.
Cochran, Drugan & Co., Trenton, N. J.
Economy Pottery Co., Trenton, N. J.
Elite Pottery Co., Trenton, N. J.
Eljer Co., Cameron, W. Va.
Fidelity Pottery Co., Trenton, N. J.
Florentine Pottery Co., Chillicothe, O.
Ford Terra Cotta & Pottery Works, Fords, N. J.
Great Western Pottery Co., Kokomo, Ind., & Tiffin, O.
Homewood Pottery Co., Mannington, W. Va.
Keystone Pottery Co., Trenton, N. J.
Kokomo Sanitary Mfg. Co., Kokomo, Ind.
Maddock, John & Sons Co., Trenton, N. J.
Maddock's, Thos. Sons Co., Trenton, N. J.
Mercer Pottery Co., Trenton, N. J.
Monument Pottery Co., Trenton, N. J.
National Pottery Co., Evansville, Ind.
Pacific Porcelain Ware Co., Richmond, Cal.
Peerless Pottery Co., E Westmoreland & Agate, Phila., Pa.
Perth Amboy Pottery Wks., Perth Amboy, N. J.
Phoenix Pottery Co., Bordentown, N. J.
Resolute Pottery Co., Trenton, N. J.
Sanitary Earthenware Specialty Co. ("Sesco" Vitreous), Trenton, N. J.
Standard Sanitary Pottery Co., Elizabeth, N. J.
Trenton Fire Clay & Porcelain Co., Trenton,
Trenton Potteries Co., Trenton, N. J. N. J.
Union Sanitary Mfg. Co., Noblesville, Ind.
Universal Sanitary Mfg. Co. (Vitreous China Tanks, Closets, Urinals, etc.), New Castle, Pa.
Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

## 8633—Plumbers' Seamless Tubing, in Brass, Copper & Nickel Plated

American Tube Works, 20 Gold, New York
Benedict & Burnham Mfg. Co. ("Benedict"), Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
**HUNGERFORD, U. T. BRASS & COP**per Co. (Brass & Copper Only), 497 Pearl, New York
Randolph-Clowes Co., Waterbury, Conn.
Waterbury Brass Co., Waterbury, Conn.

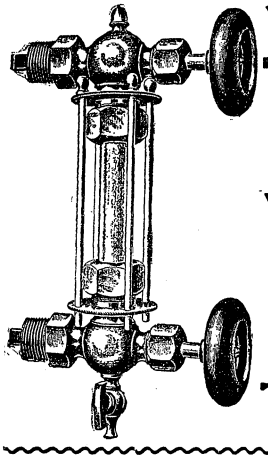
## 8634—Plumbers' Slate Work

(See Slate Urinals, Slabs, Etc.; also Laundry Tubs, Slate)

## 8635— Plumbers' Soil

**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Climax Specialty Co., Ann Arbor, Mich.
Colebrook's, W. H. Sons ("Colebrook's"), Syracuse, N. Y.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Plumbers' Sundries Co. ("Tripp's O. K."), 442 Orleans, Chicago, Ill.
Union Supply Co. ("Black Cat"), Dundee, Ill.

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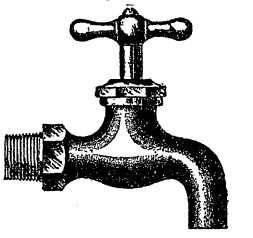
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Cylinder Cocks — Compression Bibbs and Stops
Lubricators — Ground Key Bibbs and Stops
Etc.



WRITE FOR PRICES

## The McRAE & ROBERTS CO., Detroit, Mich.


## 8636—Plumbers' Supplies, Jobbers

(This trade is duplicated under Steam Fitters' Supplies, Etc.)

(For the manufacturers of all kinds of Plumbing Specialties, see the Specific Article Required)

### ALABAMA.

BIRMINGHAM—Colvin Mfg. Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

### ARKANSAS.

LITTLE ROCK—Crane Co. (Of Chicago, Ill.) (Est. 1855.) (See adv. index, end of book)

### CALIFORNIA.

LOS ANGELES—Boynton, H. R. Co.
Busch, A. H. Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Harper & Reynolds Co.
Holbrook, Merrill & Stetson (of San Francisco)
Montague, W. W. & Co. (of San Francisco)
Tay, Geo. H. Co.
OAKLAND—Burns & Howard Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Kinney, R. W. Co.
SACRAMENTO—Holbrook, Merrill & Stetson
Miller-Enwright Co.
SAN DIEGO—Western Metal Supply Co.
SAN FRANCISCO—California Plumbing Supply Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Dalziel-Moller Co., 559 Mission
Dunham, Carrigan & Hayden
Haines, Jones & Cadbury Co. (of Phila., Pa.), 848 Bryant
Holbrook, Merrill & Stetson, 17th & Wood
Kinney, R. W. Co., 584 Howard
Lally Co., 1st & Folsom
Montague, W. W. Co., 559 Market
Rolph Co., 176 Belvedere
Tay, Geo. H. Co., 617 Mission

### COLORADO.

DENVER—Atkins-McGee Supply Co.
O'Fallon, M. J. Supply Co., 1518 Wynkoop
Wolff, L. Mfg. Co. (of Chicago), 1538 Blake

### CONNECTICUT.

BRIDGEPORT—Bridgep't Plumbing Supply Co.
HARTFORD—Plimpton & Hills Corporation
NEW HAVEN—Mersick, C. S. & Co.
Peck Bros. & Co.

### DELAWARE.

WILMINGTON—Delaware Electric & Supply Co.
Speakman Supply & Pipe Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—McCubbin, C. J., Co., 423 10th, N W
Mitchell, John, Jr., 1000 Pa av, N W
Shafer, E. G. & Co., 424 11th, N W
Somerville, Thos. Co., 316 13th, N W

### FLORIDA.

JACKSONVILLE—Hubbard, S. B. Co.

### GEORGIA.

ATLANTA—Crane Co. (Of Chicago, Ill.) (Est. 1855.) (See adv. index, end of book)
General Supply Co.
Lowry Co.
SAVANNAH—Haines, Jones & Cadbury Co. (of Phila., Pa.)
McKenna, J. H.

### HAWAII.

HONOLULU—Honolulu Iron Works

### ILLINOIS.

CHICAGO—Clow, Jas. B. & Sons, 344 Franklin
Crane Co. (Est. 1855), 1214 S Canal. (See adv. index, end of book)
Davies Supply Co., 20 N Clark
Deschauer, Stephen, 334 Blue Island av
Federal-Huber Co., Halsted & Fulton
Geary, Andrew J., 9275 S Chicago, av
Henlon & Hubbell, 61 N Jefferson
Illinois Malleable Iron Co., 1801 Diversey
Kellogg-Mackay Co., 403 W 18th boul
National Plumbing & Heating Supply Co., 5748 State
Quinn Supply Co., 120 Southwestern av
Republiic Mfg. Co., 123 W Washington
Weil Bros., 133 W Lake
Weir & Craig Mfg. Co., 2439 Wallace
Western Plumbing Supply Co., 20 S Desplaines
Whitney & Ford, 4315 Cottage Grove av
Wolff, L. Mfg. Co., 601 W Lake
DECATUR—Mueller, H. Mfg. Co.
EAST ST. LOUIS—Sanitary Plumbing Supply Co.
PEORIA—Kinsey & Mahler Co.
Nailon Bros. Co.
ROCKFORD—Rockford Brass Works
ROCK ISLAND—Channon & Dufra

### INDIANA.

ANDERSON—May Supply Co.
FORT WAYNE—P. & H. Supply Co.
INDIANAPOLIS—Central Supply Co., 209 W Washington
Indiana Supply Co., 41 N Capital av
MUNCIE—Keiser, Geo. & Co.
Knight & Jillson Co.
TERRE HAUTE—Crane Co. (Of Chicago, Ill.) (Est. 1855.) (See adv. index, end of book)
UNION CITY—Knapp Supply Co.

### IOWA.

CEDAR RAPIDS—Cedar Rapids Pump Co.
Chandler Pump Co.
DES MOINES—Crane Co. (Of Chicago, Ill.) (Est. 1855.) (See adv. index, end of book)
Globe Mach'y & Supply Co.
Kurtz, L. H. Co.
DUBUQUE—Kretschmer Mfg. Co.
McDonald, A. Y. Mfg. Co.
FORT DODGE—Leighton Supply Co.
SIOUX CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

### KANSAS.

WICHITA—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

### KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co. (Inc.)
Laib Co.
Vogel, P. A. & Son

### LOUISIANA.

NEW ORLEANS—Ahrens & Ott Mfg. Co. (of Louisville, Ky.), Baronne & St. Joseph
Fairbanks Co. (of New York City), 610 Manion & Co., 622 Baronne Canal

### MAINE.

PORTLAND—Blake, W. L. & Co.
Smith & Abbott Co.

### MARYLAND.

BALTIMORE—Adt, John B.
Central Metal & Sup. Co., 609 E Lombard
Crane Co. (of Chicago), Est. 1855. (See ad. index, end of book)
Crook-Horner Co., 17 E Pratt
Cuyler & Mohler, 611 William
Krauss & Roberts, 1316 E Balto
Robertson, Jas. Mfg. Co., 14 S Hanover
Southern Supply Co., Calvert & Saratoga

### MASSACHUSETTS.

BOSTON—Barrett, Jas. Mfg. Co., 48 Pearl
Braman-Dow & Co., 245 Causeway
Brown-Wales Co., 69 Purchase
Butler, Edmund F. & Co., 76 Pearl


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Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Dalton-Ingersoll Mfg. Co., 169 High
Dececo Co., 155 High
Estabrook's, R. Sons, 204 W 1st, S B
Gallison, Wm. H. Co., 36 Oliver
Gilchrist, Geo. E. Co., 106 High
Hercules Iron & Supply Co., Commercial & Hanover
Hubbard, W. B. & Sons Co., 176 Oliver
Locke, Stevens & Co., 94 Warrenton
Sanitary Fixture Co., 293 Congress
Smith & Anthony Co., 48 Union
Sumner & Gerald Co., 287 Congress
Thompson-Durkee Co., 87 High
Webb, F. W. Mfg. Co., 52 Elm
Young, Jos. H. Co., 82 High
CAMBRIDGE—Cambridge Plumbing Supply Co.
LYNN—Bourneuf, Louis, Corp'n
SOMERVILLE—Ideal Supply Co.
SPRINGFIELD—Hitchcock Supply Co.
New England Plumbing Supply Co.
WORCESTER—Baker Lead Mfg. Co.
Colwell Lead Co.

## MICHIGAN.

DETROIT—Detroit Lead Pipe & Sheet Lead Works
Harvey's, A. Sons Mfg. Co. (Ltd.)
Kimball-Eisenberg Co., 216 Jefferson av
Park & McKay Co., 55 Bagley av
Sales, Murray W. Co., 76 Jefferson av
**VOELKNER & HARRY MANU**facturing Co., 282 E Woodbridge, Detroit, Mich. (See adv. index, end of book)
Walker Mfg. & Supply Co., 136 W Larned
GRAND RAPIDS—Ferguson Supply Co. (Ltd.)
Grand Rapids Supply Co.
KALAMAZOO—Quinn Supply Co.
LANSING—Michigan Supply Co.
MENOMINEE—Emerson-Corbin Supply Co.

## MINNESOTA.

DULUTH—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Duluth Plumbing Supplies Co.
MINNEAPOLIS—Central Supply Co., 312 3rd
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Kellogg-Mackay Co.
National Mfg. & Supply Co.
ST. PAUL—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Union Brass & Metal Mfg. Co.
Western Supply Co.

## MISSOURI.

KANSAS CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Kansas City Pump Co.
Reeves Supply Co.
Southwest Plumbing Supply Co.
United States Water & Steam Supply Co.
Young, W. B. Supply Co.
ST. JOSEPH—Horigan Supply Co.
ST. LOUIS—Cahill-Swift Mfg. Co., 20 S 12th
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
National Plumbing Supply Co., 110 S 12th
Nelson, N. O. Mfg. Co., 10th & Chestnut
Rumsey, L. M. Mfg. Co., 806 N Second
Rumsey & Sikemeier Co., 1 900 Pine
Turner Supply Co.
SPRINGFIELD—Cooper, H., Jr.

## NEBRASKA.

LINCOLN—Cooper & Cole Bros.
Western Supply Co.
OMAHA—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
United States Supply Co.

## NEW HAMPSHIRE.

MANCHESTER—Manchester Supply Co.

## NEW JERSEY.

BAYONNE—Bayonne Supply Co.
CAMDEN—Fullmer, A. J.
Ronalds & Johnson Co.
EAST ORANGE—Orange Supply Co.
ELIZABETH—Elizabeth Hardware Co.
GUTTENBURG—Herrmann, F. W.
JERSEY CITY—Jersey City Supply Co.
Perkins, Arthur L., 283 Warren
Ringle, Jacob & Son
NEWARK—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Crane, Moses W. & Co.
Egbert, W. V. & Co.
Eisner Bros. Co.
Gray, R., Jr.
Macknet & Doremus Co.
Newark Supply Co.
Roe & Conover
PATERSON—McNab & Harlin Mfg. Co.
Quinn Bros.
Smith, Abe.
TRENTON—Warren, Balderston & Co.
WEEHAWKEN—Berger, Edw. W. & Bro.

## NEW YORK.

ALBANY—Hoy & Co.
BUFFALO—Bushnell, Clarence E., 63 Carroll
Case, W. A. & Son Mfg. Co., 31 Main
Dixon & Ballou, Ellicott & Carroll
Hamill, D. L., 60 Delaware av
Plumbers' & Steamfitter's Supply Co., 104 Pearl
Schaefer & Co., 226 Ellicott
Standard Plumbing Supply Co., 483 Washn
NEW ROCHELLE—Dimock & Fink Co.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—American Plumbing Mfg. Co., 64 Atlantic av
Burr Mfg. & Supply Co., 100 Lexington av
Clark, John F., 1150 Myrtle av
De Laney, Thos. M., 576 Atlantic av
Jacobs, Geo. P. & Co., B'way & S 9th
Knight, Thos. G. Co., 52 Myrtle av
McElraevy & Hauck Co., 440 B'way
Read, H. P. Lead Works, 32 Sanford
Ronalds & Johnson Co., 43 Boerum pl
Sackin, B., 632 B'way
Smyth-Donegan Co., 247 St Marks av
Spencer & Haviland, 174 Portland av
Waters & Miller, 5 McKibbin

### Boroughs of Manhattan & Bronx.

NEW YORK—Adee, Fred Co., 44 Cliff
Beals, H. H., 51 Cliff
Behrer, Arnold & Sons, 273 Pearl
Behrer & Co., 81 Beekman
Beith & Reilly Co., 134 Lincoln av
Billo, Geo. H., 82 John
Campbell Supply Co., 570 Columbus av
Central Plumbers Supply Co., 252 Pearl
Colwell Lead Co., 109 Lafayette
Cornell & Underhill, Greenwich & Spring
Crane Co. (of Chicago), Est 1855, 490 Cherry. (See adv. index, end of book)
Cushing, Thos. F. Co., 40 E 21st
Dimock & Fink Co., 220 E 125th
Du Bois, F. N. & Co., 243 9th av
Federal-Huber Co., 244 5th av
Glauber, Sam. S. (Inc.), 243 E 79th
Harlem Supply Co. (Inc.), 121 E 124th
Hotchkiss, Vail & Garrison Co., 149 E 35th
Hungerford, U. T. Brass & Copper Co., 497 Pearl
Hussey, W. H. & Son, 148 W 35th
Keating, E. F. Co., 446 Water
Kenney Mfg. Co., 254 4th av
Lederman, Sam'l, 562 Amsterdam av
Locke & Smith Co., 103 W 37th
McMann & Taylor, 104 John
McNab & Harlin Mfg. Co., 56 John
McShane, Wm. Co., 711 6th av
Malbin, Mayer, 922 3d av
Mayor, Lane & Co., 340 Hudson
Meyer-Sniffin Co., 11 W 36th
Mott, J. L. Iron Works, 118 5th av
Murray, Jno. A., 310 W 39th
**NASON MFG. CO., 71 Fulton** (See adv. index, end of book)
Peck Bros. & Co. (of New Haven, Conn.), 27 W 42d
Read, H. P. Lead Works, 160 E 56th
Ronalds & Johnson Co., 54 Cliff
**SIMMONS, JOHN CO., 108 Centre** (See adv. index, end of book)
Smolka, Edw. & Co. (Inc.), 231 E 33d
Standard Plumbing Supply Co., St. Anns av & 159th
**STEIN, HENRY (Mfrs.' Agent), 48** Cliff. (See adv. index, end of book)
United Plumbers' Supply Co., 181 E 108th
Vogel, Ig., 1518 1st av
Walsh & Hartwig (Inc.), 217 E 58th

**(End of New York City)**

ROCHESTER—Hunting Co.
Sloan, Samuel & Co., 67 Exchange
SYRACUSE—McClure, R. C. Co.
Pierce, Butler & Pierce Mfg. Co.
TROY—Aird-Don Co.
UTICA—Millar, Chas. & Son Co.
WATERTOWN—Hunting Co.
Weekes, Jno. & Son Co.
YONKERS—Yonkers Plumbing Supply Co.

## NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est 1855. (See adv. index, end of book)

## OHIO.

CANTON—Allman, W. H. Co.
CINCINNATI—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Crane-Hawley Co.
Douglas, Jno. Co.
Lipp, Louis Co.
McDonald, Jas. & Sons Co.
Merkel Bros., Canal & Jackson
Merrie, Hugh, 124 E 8th
Murdock Mfg. & Supply Co., 426 Plum
CLEVELAND—Cleveland Plumbing Supply Co.
Fisher, E. W. Co.
Kennedy Co., 1310 Huron rd, S E
Sanitary Co.
Standard Mfg. Co. (of Pittsburg, Pa.) 648 Huron rd, S E
Welker Supply Co.
COLUMBUS—Ascher Supply Co.
Columbus Brass Co.
Columbus Supply Co.
Potts, B. D.
Scioto Valley Supply Co.
Westwater Supply Co.
DAYTON—Dayton Supply Co.
MANSFIELD—Humphryes Mfg. Co.
TOLEDO—American Plumbers' Supply Co.
Grosswiller, Jos. F. Supply Co.
National Supply Co.

## OKLAHOMA.

OKLAHOMA CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

## OREGON.

PORTLAND—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Gauld Co.
Kline, M. L.

## PENNSYLVANIA.

ALTOONA—Standard Supply & Equipment Co. (See Phila., Pa.)
LANCASTER—Sheet Metal & Supply Co.
PHILADELPHIA—Berkstresser, Thos. J. Co.
Blessing, C. A., 6th & Randolph
Crane Co. (of Chicago), Est. 1855, 22 S 5th. (See adv. index, end of book)
Fleck Bros. Co., 44 N 5th
Ford & Kendig Co., 1428 Callowhill
Froehlich Bros., 142 N 7th
Haines, Jones & Cadbury Co., 1128 Ridge av
Haynes-Thompson Co., 1705 Chestnut
Keystone Supply & Mfg. Co., 927 N 9th
Perkes, Chas. (Est. of), 627 Arch
Rainear, C. J. & Co., 518 Arch
Reading Fdry. & Supply Co., 1423 Walnut
Ronalds & Johnson Co. (of New York), 139 N 7th
Savill, Thos. & Sons, c 11th & Wood
Shuster Foundry Co., 41 N Franklin
Standard Supply & Equipment Co. (Jobbers), 1710 Market
Walls, Owen & Stambach Co., 1041 Ridge av
PITTSBURG—Anchor Sanitary Co., 123 3d av
Bailey-Farrell Mfg. Co., 3d av & Ross
Bowman Supply & Mfg. Co., 890 Main
Duquesne Sanitary Co., 2d av & Cherry al
Fort Pitt Supply Co., 332 2d av
Harris Pump & Supply Co., 320 2nd av
Kelly & Jones Co., 135 Water
Standard Mfg. Co., 949 Penn av
Standard Supply & Equipment Co., 1151 Liberty av
Union Mfg. & Supply Co., Scott pl
SCRANTON—McClure, R. C. Co.
Weeks, R. E. Co.
Wyoming Valley Supply & Mfg. Co.
WILKES-BARRE—Eastern Pennsylvania Supply Co.
Wyoming Valley Supply & Mfg. Co.
YORK—Small, P. A. & S. Co.

## RHODE ISLAND.

PROVIDENCE—Peck, Benj. T.
Phillips Lead & Supply Co.
Providence Plumbing Supply Co.
Tillinghast, L. H. Supply Co.

## SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.
Cameron & Barkley Co.

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### SOUTH DAKOTA.

WATERTOWN—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

### TENNESSEE.

CHATTANOOGA—Fritts, Tom, Hardware Co.
James Supply Co.
KNOXVILLE—Southern Brass & Iron Co.
MEMPHIS—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
NASHVILLE—Nashville Plumbers' & Mill Supply Co.

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FORT WORTH—Gamer Co.
SAN ANTONIO—Higgins Co.

### UTAH.

SALT LAKE CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Nelson, Jos. Supply Co.

### VERMONT.

RUTLAND—Lincoln Iron Works

### VIRGINIA.

HAMPTON—Booker, H. R. & Co.
NORFOLK—Virginia-Carolina Supply Co.
RICHMOND—Bargamin, G. & A. Co.
McGraw-Yarbrough Co.
Virginia-Carolina Supply Co.

### WASHINGTON.

SEATTLE—Bowles Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Hambach, A. Co.
SPOKANE—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Holley-Mason Hdwe. Co.
Hughes & Co.
TACOMA—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Walsh & Gardner
Western Brass Works

### WEST VIRGINIA.

WHEELING—Trimble & Lutz Supply Co.

### WISCONSIN.

GREEN BAY—Murphy Supply Co.
LA CROSSE—La Crosse Plumbing Supply Co.
Roosevelt, W. A. Co.
MILWAUKEE—Dengel, F. R. Mfg. Co., 336 4th
Hoffmann, B. Mfg. Co., 257 6th
Hoffmann & Billings Mfg. Co.
Rom, Robt. Co., 1023 St. Paul av
Rundle-Spence Mfg. Co., 63 2d
Wisconsin Plumbing & Heating Supply Co.

## 8637—Plumbers' Wood Work

(For Jobbers of this Trade see Plumbers' Supplies, Jobbers)

Abingdon Seat & Tank Co., Abingdon, Ill.
American Sanitary Works, 320 B'way, New York
American Woodwork Mfg. Co., Evansville, Ind.
Ascher Supply Co., Columbus, O.
Becker Mill Co., The ("Hercules" Seat), Mariette, O.
Berglass, M. P. Plumbing Supply Co., 108 Junuis, Brooklyn, N. Y.
Budde, Jos., 577 Mission, San Francisco, Cal.
Burlington Venetian Blind Co. (Water Closet Seats Only), Burlington, Vt.
Burrows, Wm. Mfg. Co., 430 Kent, Brooklyn, N. Y.
Central Closet Mfg. Co., Holland, Mich.
Century Sanitary Mfg. Co., Syracuse, N. Y.
Church, C. F. Mfg. Co., Holyoke, Mass.
Climax Sanitary Co. ("Climax" Lock Joint), Detroit, Mich.
Columbus Brass Co. (Bent Wood Seats & Simplex Tanks), Columbus, O.
Coyne & Delaney, 823 Kent av, Brooklyn, N. Y.
Detroit Bath Tub & Brass Co., Detroit, Mich.
Detroit-Milford Sanitary Mfg. Co., Detroit, Mich.
Dewees, S. T. Mfg. Co., Chattanooga, Tenn.
Douglas, Jno. Co., 900 Poplar, Cincinnati, O.
Eclipse Co., North Girard, Pa.
Eichman, J. C. Mfg. Co., Baltimore, Md.
Emery, W. S. ("Acme"), 78 Cliff, New York
Federal-Huber Co., Halsted & Fulton, Chicago, Ill., & 244 5th av, New York
Ferguson Supply Co., Grand Rapids, Mich.
Findeisen & Kropf Mfg. Co., W 21st pl c S Rockwell, Chicago, Ill.
Globe Furniture Co., Northville, Mich.
Hale & Kilburn Mfg. Co., Phila., Pa.
Heap, Wm. and Sons (Seats, Tanks, Low-down Tanks, Export English Pattern), Grand Haven, Mich.
Ideal Mfg. Co. (Seats & Tanks), Detroit, Mich.
Judd, E. C. B. (Inc.) (Closet Seats, etc.), Muskegon, Mich.
Knatt Mfg. Co., Fort Wayne, Ind.
Leclaire Mfg. Co., Edwardsville, Ill.
Lipp, Louis Co., Cincinnati, O.
Marcellus, C. N. & Co., Chillicothe, O.
Michigan Sanitary Mfg. Co., Muskegon, Mich.
Miller-Hubbard Mfg. Co., Sturgis, Mich.
Never-Split Seat Co. ("Never-Split" Closet Seats), Evansville, Ind.
Olmstead-Thomson Co., New Britain, Conn.
Park & McKay Co., Detroit, Mich.
Peerless Tank & Seat Co., Evansville, Ind.
Pfau Mfg. Co., Cincinnati, O.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Pillsbury-Baldwin Co., Barton, Vt.
Plumbers' Woodwork Co. ("Badger"), Algoma, Wis.
Plymouth Novelty Mfg. Co., Plymouth, Ind.
Riverside Mfg. Co., Reading, Pa.
Sanitary Mfg. Co., Hamilton, O.
Schwab Bros. Co. ("Never-Break"), 811 E 9th, New York
Standard Sanitary Mfg. Co. (Celluloid Covered & Plain Seats), Pittsburg, Pa.
STEIN, HENRY, 48 Cliff, New York. (See adv. index, end of book)
Swain Mfg. Co., 7th & Morris, Phila., Pa.
Van Arnam Mfg. Co., Fort Wayne, Ind.

## 8637a— Plumbing Fixtures

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index & branch offices, end of book)

## 8637b—Pneumatic Air Hoists

(See Pneumatic Hoists)

## 8638—Pneumatic Alligator Riveters

ALLEN, JNO. F., 370 Girard av, New York. (See adv. index, end of book)

## 8639—Pneumatic Ash Handling System

Green Engineering Co. ("Geco"), Commercial Nat'l Bank bldg, Chicago, Ill.

## 8640—Pneumatic Baby Drillers

Kotten, H. G., 30 Church, New York

## 8641—Pneumatic Beading Hammers

CHICAGO PNEUMATIC TOOL CO. ("Boyer," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap," Flue Beading), Columbus, Ohio
Dayton Pneumatic Tool Co. ("Green" & "Dayton"), Dayton, O.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor" Pneumatic Tool), 1307 Michigan av, Chicago, Ill.
INGERSOLL-RAND CO. ("Crown," "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention
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Oldham, Geo. & Son, Frankford, Phila., Pa.
Pittsburg Pneumatic Co., Canton, Ohio
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8642—Pneumatic Belly Pounders

INGERSOLL-RAND CO., 11 Broadway, New York. (See adv. index & branch offices, end of book)

## 8643—Pneumatic Boiler Makers' Hammers

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
INGERSOLL-RAND CO. ("Crown," "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)

## 8644—Pneumatic Boiler Riveters

ALLEN, JOHN F. (Percussion & Compression), 370 Gerard av, New York. (See adv. index, end of book)

## 8645—Pneumatic Bolt Nippers

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
B'way & Cedar, New York. (See adv. index & branch offices, end of book)

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INGERSOLL-RAND CO. ("Crown," "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)

## 8647—Pneumatic Casting Cleaners

(See Pneumatic Scaling Hammers)

## 8648—Pneumatic Center Grinders

Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

## 8649—Pneumatic Chain Hoists

(See Pneumatic Hoists)

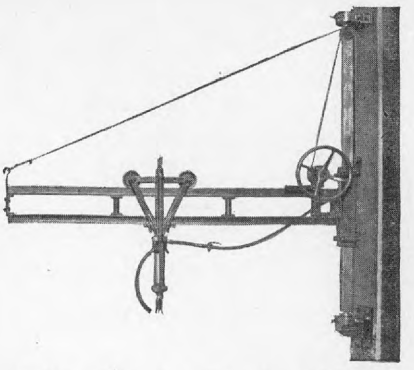
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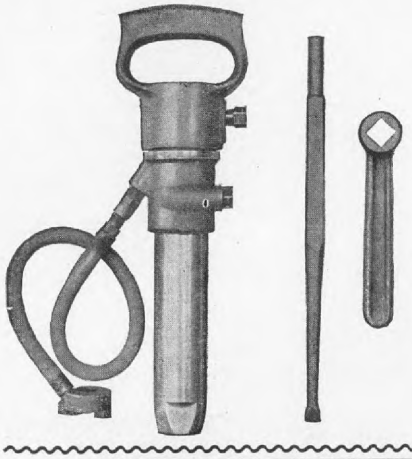
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Detroit Pneumatic Tool Co. ("Detroit"), Detroit, Mich.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
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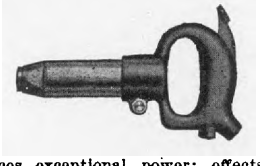
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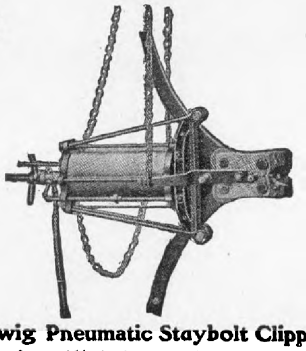
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Hoists, Straight Lift
Hoists, Duntley Electric
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Hose Clamp Tool
Hose Couplings (Universal)
Inter-Coolers
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**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
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Slocomb, F. F. & Co. ("Caskey"), Wilmington, Del.

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(See Pneumatic Sand Rammers)

## 8655—Pneumatic Crane Motors

(See also Pneumatic Motors)

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## 8656—Pneumatic Despatch Tubes

(See Pneumatic Tubes)

## 8657—Pneumatic Drift Bolt Drivers

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Cleveland Pneumatic Tool Co., Cleveland, O.

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Dayton Pneumatic Tool Co. ("Dayton"), Dayton, O.
Empire Engine & Motor Co. ("Empire," for Metal or Wood), Orangeburg, N. Y.
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Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa.

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**HELWIG MFG. CO. ("Helwig" Portable),** St. Paul, Minn. (See adv. index, end of book)

## 8660—Pneumatic Feather Drills

(See Pneumatic Plug Drillers)

## 8661—Pneumatic Fire Alarms

**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 8662—Pneumatic Flue Cutters

(See also Cutters, Flue)

Alliance Machine Co. ("McGrath"), Alliance, Ohio
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Draper Mfg. Co. ("McGrath"), Port Huron, Mich.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8663—Pneumatic Flue Expanders

(See also Expanders, Tube)

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)

## 8664—Pneumatic Flue Rollers

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
**Independent Pneumatic Tool Co. ("Thor" Reversible), 1307 Michigan av, Chicago, Ill.**
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 8665—Pneumatic Flue Welders

(See also Flue Welding Machines)

Alliance Machine Co. ("McGrath"), Alliance, Ohio
Draper Mfg. Co. ("McGrath"), Port Huron, Mich.

## 8666—Pneumatic Fog Signals

**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## Pneumatic Forges

(See Forges, Pneumatic)

## 8667—Pneumatic Forging Hammers or Machines

American Brake Shoe & Foundry Co. ("Kennedy"), Mahwah, N. J., & Chicago, Ill.
**BLISS, E. W. CO. (Compound Pneumatic Forging Hammers), 19 Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**
**Nazel Engineering & Machine Wks. ("Beche") Phila., Pa.**
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Williams, White & Co. ("Yeakley"), Moline, Ill.

## 8668—Pneumatic Foundry Rammers

(See Pneumatic Sand Rammers)

## 8669—Pneumatic Granite Cutters' Tools

(See Pneumatic Stone Cutters' Tools)

## 8670—Pneumatic Hammer Drills

**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
**SULLIVAN MACHINERY CO. ("Sullivan"),** Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
30 Church, New York.
Whitcomb, Geo. D. Co. ("Whitcomb"), Rochelle, Ill.

## 8671—Pneumatic Hammers

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CHICAGO PNEUMATIC TOOL CO.** ("Boyer," "Keller," Riveting & Clipping), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co., Columbus, O.
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
Dayton Pneumatic Tool Co. ("Green" & "Dayton"), Dayton, O.
Detroit Pneumatic Tool Co. ("Detroit"), Detroit, Mich.
**HELWIG MFG. CO. ("Helwig," for** Chipping, Calking & Riveting), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO., 11 B'way, New** York. (See adv. index & branch offices, end of book)
Kotten, H. G. (For Stone, Granite & Marble), 30 Church, New York
Leyner, J. Geo. Engineering Works Co. (For Stone or Metal), Littleton, Colo.
**MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.**
Oldham, Geo. & Son (For Stone, Marble & Granite), 4326 Thackawanna, Fkd., Phila., Pa.
Pittsburg Pneumatic Co., Canton, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Shaw, C. H. Pneumatic Tool Co., 35th & Wazee, Denver, Colo.
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8672— Pneumatic Hoists

American Air Compressor Works, Van Brunt & Summit, Brooklyn, N. Y.
**BLAKE, GEO F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Chicago Pneumatic Tool Co. (Geared & Trolley Combined), Fisher bldg, Chicago, Ill.
**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Curtis & Co. Mfg. Co. (Vertical, Horizontal Traveling, etc.), St. Louis, Mo.
Dake Engine Co. (Chain), Grand Haven, Mich.
Detroit Engineering Works, Detroit, Mich.
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
Empire Engine & Motor Co. ("Empire" Motor Chain), Orangeburg, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hanna Engineering Works, 2059 Elston av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Imperial"),** 11 B'way, New York. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
**NORTHERN ENGINEERING WKS.,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Q. M. S. Co., Plainfield, N. J.
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
Ridgway, Craig & Son Co. (Vertical & Horizontal), Coatesville, Pa.

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Rix Compressed Air & Drill Co. (Mine), San Francisco, Cal.
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.
**SULLIVAN MACHINERY CO., Peoples** Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Weir & Craig Mfg. Co. (1 to 10 Ton), 2439 Wallace, Chicago, Ill.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Wickes Bros., Saginaw. Mich.

## 8673—Pneumatic Hose Coupling Strainers

Williams, Franklin ("Quix"), 39 Cortlandt, New York

## 8674—Pneumatic Hose Couplings

B. & B. Coupling Co., Peoples Gas bldg, Chicago, Ill
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Caskey Valve Co. (Swivel Joint), 99 John New York
**CHICAGO PNEUMATIC TOOL CO.** ("Chicago-Universal"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Clark, W. J. Co. ("Quick-As-Wink"), Salem, Ohio
Cleveland Pneumatic Tool Co. ("Bowes"), 6410 Hawthorne av, Clevland, O
Curtis & Co. Mfg. Co. ("Curtis"), St. Louis, Mo
**DALLETT, THOS. H. CO. ("Dallett" Automatic),** 2300 York, Phila., Pa. (See adv index, end of book
Edwards, H. D. Co. ("Joy" Automatic"), Detroit, Mich.
Howell, F. R. Brass Works, 122 N Franklin Phila., Pa.
**INGERSOLL-RAND CO., 11 B'way, New York.** (See adv. index & branch offices, end of book)
Knox Mfg. Co., 704 Arch, Phila., Pa.
Lightning Hose Coupling Co. ("Lightning"), 29th & 11th av, New York
Moran Flexible Steam Joint Co. (All Metal Flexible, also for Steam or Liquid), Louisville, Ky.
Slocomb, F. F. & Co., Wilmington, Del.
Waukegan Brass Mfg. Co., Waukegan, Ill.
Wood Drill Works ("Wood"), Paterson, N. J.

## 8675— Pneumatic Jacks

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch of fices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 8676—Pneumatic Jam Riveters

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Columbus Pneumatic Tool Co. ("Dunlap") Columbus, O.
**INGERSOLL-RAND CO., 11 B'way.** New York. (See adv. index & branch offices, end of book)

## 8677—Pneumatic Lattice Column Riveters

**ALLEN, JNO. F., 370 Gerard av, New** York. (See adv. index, end of book)

## 8678— Pneumatic Motors

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Dake Engine Co. (Reversible), Grand Haven, Mich.
**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)
Draper Mfg. Co. ("McGrath" for R. R. Turntables, etc.), Port Huron, Mich.
Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.
**HELWIG MFG. CO. ("Helwig"** Reversible, Both End & Central Spindle for Metal & Wood Boring), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Imperial"),** 11 B'way, New York. (See adv. index & branch offices, end of book)
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8679—Pneumatic Motors & Geared Pneumatic Hoists

**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)

-- PNEUMATIC MOTORS --
— AND —
Geared Pneumatic Hoists
DETROIT HOIST & MACHINE CO
DETROIT, MICH.

## 8680—Pneumatic Painting Machines

(See also Paint Spraying Machines)
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

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## 8681— Pneumatic Pile Drivers

Chicago Pneumatic Tool Co. ("Boyer," "Keller"), Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co., 6410 Hawthorne av, Cleveland, O.
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
**INGERSOLL-RAND CO. (Sheet), 11 B'way, New York. (See adv. index & branch offices, end of book)**
Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.
Oldham, Geo. & Son, 4326 Thackawanna, Fkd., Phila., Pa.
Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
**SULLIVAN MACHINERY CO. ("Sullivan"),** Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Wood, Warren, Paterson, N. J.

## 8682—Pneumatic Piston Drills

**CHICAGO PNEUMATIC TOOL CO.** ("Little Giant", "Boyer"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland" Four Piston), Cleveland, O.
Columbus Pneumatic Tool Co. ("U. & W." "Dunlap" for Drilling in Close Quarters and Heavy Reaming), Columbus, O.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Imperial"),** 11 B'way, New York. (See adv. index & branch offices, end of book)
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8683—Pneumatic Plug Drillers

**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.
Vermont Construction Co., Burlington, Vt.

## 8684— Pneumatic Presses

Slocomb, F. F. & Co. ("Caskey"), Wilmington, Del.
Springfield Machine Tool Co. (Intensifying), Springfield, O.

## 8685—Pneumatic Pumping Systems

(See also Pneumatic Water Supply System; also Pumps, Pneumatic)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO. (Air Lift &** Return-Air), 11 B'way, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**THOMAS & SMITH (Inc.) ("Economy"),** 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)

## 8686— Pneumatic Punches

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Slocomb, F. F. & Co. ("Caskey" Portable), Wilmington, Del.

## 8687—Pneumatic Reaming & Tapping Drills

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap"), Columbus, Ohio
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor" Reversible), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8688—Pneumatic Reaming & Tapping Motors

**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)

## 8689—Pneumatic Rivet Holder-On

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Manitowoc Dry Dock Co. ("Gunnell"), Manitowoc, Wis.
Pittsburg Pneumatic Co., Canton, O.

## 8690—Pneumatic Rivet Sets

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 8691— Pneumatic Riveters

(See also Hammers, Riveting)
Albree, Chester B. Iron Works ("Pittsburg" Portable), N S, Pittsburg, Pa.
**ALLEN, JNO. F. (Percussion & Compression),** 370 Gerard av, New York. (See adv. index, end of book)
**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index, end of book)
**CHICAGO PNEUMATIC TOOL CO.** ("Boyer"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Ajax" & "Cleveland"), Cleveland, O.
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
Columbus Pneumatic Tool Co. ("Dunlap" Long Stroke), Columbus, O.
Dayton Pneumatic Tool Co., Dayton, O.
Hanna Engineering Works, 2059 Elston av, Chicago, Ill.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.**
Oldham, Geo., & Son, Frankford, Phila., Pa.
Pittsburg Pneumatic Co., Canton, O.
Prouty, T. C. Co. (Ltd.), Albion, Mich.
**SHEPARD ELECTRIC CRANE &** Hoist Co. ("Shepard" Compression Multiple Power, etc.), Montour Falls, N. Y. (See adv. index & branch offices, end of book)
Slocomb, F. F. & Co. ("Caskey"), Wilmington, Del.
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8691a—Pneumatic Riveting Contractors

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)

## 8692—Pneumatic Rock Drills

(See also Pneumatic Plug Drillers)
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Carnahan, C. T. Mg. Co. ("Murphy"), Denver, Colo.
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Hardsocg Wonder Drill Co. ("Hardsocg"), Ottumwa, Ia.
Holman Bros. ("Holman"), 114 Liberty, New York
**INGERSOLL-RAND CO. ("Sergeant,"** "Little Giant"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co. ("Leyner"), Littleton, Colo.
McCormack Drill & Mfg. Co., Boone, Ia.
Shaw, C. H., Pneumatic Tool Co. ("Shaw," "Eclipse" Air Hammer), Denver, Col.
Smith, G. W. & Co. ("Victor"), Chattanooga, Tenn.
**SULLIVAN MACHINERY CO., Peo-**ples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Wickes Bros. ("Murphy's" Little Champion), Saginaw, Mich.
Wood Drill Works, Paterson, N. J.

## 8693—Pneumatic Rotary Drills

**CHICAGO PNEUMATIC TOOL CO.** ("Phoenix," "Keller," "Moffet"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland" Breast), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co. ("Columbus"), Columbus, O.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)

## 8694—Pneumatic Sand Rammers

(See also Rammers, Foundry)
**CHICAGO PNEUMATIC TOOL CO.** ("Chicago," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co., Cleveland, O.
Detroit Pneumatic Tool Co. ("Detroit"), Detroit, Mich.
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.

## 8695—Pneumatic Sand Sifters

(See Sifters, Sand With the Word "Pneumatic" Following Their Names)

## 8696—Pneumatic Scaling Hammers

(For Scaling Castings, Etc.)
**CHICAGO PNEUMATIC TOOL CO.** ("Boyer," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap"), Columbus, O.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
**MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.**

## 8697—Pneumatic Screen Shakers

**Hanna Engineering Works, 2059 Elston av, Chicago, Ill.**

## 8698—Pneumatic Staybolt Breakers

Reliance Machine & Tool Works, St. Louis, Mo.

## 8699—Pneumatic Staybolt Cutters

(See also Cutters, Staybolt)
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Reliance Machine & Tool Works, St. Louis, Mo.
Slocomb, F. F. & Co., Wilmington, Del.
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

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## 8700—Pneumatic Staybolt Nippers

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)

## 8701—Pneumatic Stone Carving Tools

**BLISS, E. W. CO. (Sheet Metal), 19** Adams, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**CHICAGO PNEUMATIC TOOL CO.** ("Boyer," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 30 Church, New York
Oldham, Geo. & Son, Fkd., Phila., Pa.
Trow & Holden, Barre, Vt.
Vermont Construction Co., Burlington, Vt.

## 8702—Pneumatic Stone Cutters' Tools

**BLISS, E. W. CO., Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CHICAGO PNEUMATIC TOOL CO.** ("Boyer," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
Detroit Pneumatic Tool Co. ("Detroit"), Detroit, Mich.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.
**MANHATTAN TOOL CO., care E. W.** Bliss Co., 19 Adams, Brooklyn, N. Y.
Oldham, Geo. & Son, Fkd., Phila., Pa.
Trow & Holden, Barre, Vt.

## 8703—Pneumatic Stone Surfacing Machines

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CHICAGO PNEUMATIC TOOL CO.** ("Keller), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
**INGERSOLL-RAND CO., 11 B'way.** New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.
**MANHATTAN TOOL CO., care E. W.** Bliss Co., 19 Adams, Brooklyn, N. Y.
Oldham, Geo. & Son (Portable), 4326 Thackawanna, Fkd., Phila., Pa.
Vermont Construction Co., Burlington, Vt.

## 8703a—Pneumatic Tool Appliances

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8704—Pneumatic Tool Lubricants

Cleveland Pneumatic Tool Co. ("Cleveland" "Never-Gum"), 6410 Hawthorne av, Cleveland, O.
Fanning, Jas. L. ("Pneulubric"), 23 S 5th, Phila., Pa.
Houghton, E. F. & Co., 240 Somerset, Phila., Pa.
Zurn, O. F. Co. ("Pneuoxyum"), Broad & Lehigh, Phila., Pa.

## 8705—Pneumatic Tool Lubricators

Carron, A. M. & Co. ("Pittsburg"), Pittsburg, Pa.
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8705a—Pneumatic Tool Repairing

(Repairing of All Makes)
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)

## 8706— Pneumatic Tools

Albree, Chester B. Iron Works, Pittsburg, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co., Columbus, O.
**DALLETT, THOS. H. CO., 2300 York,** Phila., Pa. (See adv. index, end of book)
Dayton Pneumatic Tool Co. ("Green" & "Dayton"), Dayton, O.
Detroit Pneumatic Tool Co., Detroit, Mich.
Empire Engine & Motor Co., Orangeburgh, N. Y.
Hannifin Mfg. Co., 557 W Jackson boul, Chicago, Ill.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 30 Church, New York
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MANHATTAN TOOL CO., care E. W.** Bliss Co., 19 Adams, Brooklyn, N. Y.
Manitowoc Dry Dock Co., Manitowoc, Wis.
Oldham, Geo. & Son, Fkd., Phila., Pa.
Pittsburg Pneumatic Co., Canton, O.
Shaw, C. H., Pneumatic Tool Co., Denver, Col.
Slocomb, F. F. & Co. (Punches and Riveters), Wilmington, Del.
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8707—Pneumatic Trolley Hoists

(See Pneumatic Hoists)

## 8708— Pneumatic Tubes

Interstate Pneumatic Tube Co., 200 5th av, New York
Lamson Consolidated Store Service Co., 161 Devonshire, Boston, Mass.
Miles Pneumatic Tube Co., 1123 B'way, New York
Pneumatic Trans. Co., Merchants & Mariners bldg, Phila., Pa.
Taisey Pneumatic Service Co., Indianapolis, Ind.
Universal Pneumatic Transmission Co., 145 W Ohio, Chicago, Ill.

## 8709—Pneumatic Tubes & Caissons for Bridge Piers

Builders' Iron Foundry, Providence, R. I.

## 8710—Pneumatic Tunneling Machines

**TERRY & TENCH CO. (Operated in** Connection with Pneumatic Chipping Hammers), Grand Central Terminal, New York. (See adv. index, end of book)

## 8711—Pneumatic Valveless Hammers

**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)

## 8712—Pneumatic Water Supply Systems

(See also Pneumatic Pumping Systems)
American Pure Water Supply Co., Ashtabula, O.
Andrews Heating Co. ("Andrew's" Air Pressure), Minneapolis, Minn.
Bennett Bros. Co. (Ideal), Lowell, Mass.
Butler Co., Butler Ind.
Carter, Ralph B. Co., 50 Church, New York
Columbian Steel Tank Co., Kansas City, Mo.
DES MOINES BRIDGE & IRON CO., 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO.** "Perry"), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices. end of book)
Fleck Bros. Co. ("Neptune"), Phila., Pa.
Kewanee Water Supply Co., Kewanee, Ill.
**LEADER IRON WORKS ("Leader"** Water Systems), Decatur, Ill. (See adv. index & branch offices, end of book)
Modern Water Supply Co., Pittsburg, Pa.
National Steel Tank Co., Pekin, Ill.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**THOMAS & SMITH (Inc.) ("Econo-**my"), 116 W Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
United Pump & Power Co. ("Perry"), 84 Van Buren, Chicago, Ill. Works: Clyde, Ill.
Woodmanse Mfg. Co., Freeport, Ill.

## 8713— Pneumatic Winches

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

## 8714—Pneumatic Winding Drums

(See also Drums, Winding)
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8715—Pneumatic Wood Boring Machines

**CHICAGO PNEUMATIC TOOL CO.** ("Little Giant", "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av, Cleveland, O.
Empire Engine & Motor Co. ("Empire" Wood Drills), Orangeburg, N. Y.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool So. ("Thor" Reversible), 1307 Michigan av, Chicago, Ill.
**INGERSOLL-RAND CO. ("Crown,"** "Imperial"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Standard Railway Equipment Co. ("Monarch"), Pittsburg, Pa., & St. Louis, Mo.

## 8716—Pneumatic Yoke Riveters

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.
**TERRY & TENCH CO. (Inc.) ("Ter-**ry"), Grand Central Terminal, New York. (See adv. index, end of book)

## 8717— Poachers (Egg)

Columbian Enameling & Stamping Co., Terre Haute, Ind.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Republic Metalware Co., Buffalo, N. Y.
Silver & Co., 304 Hewes, Brooklyn, N. Y.

## 8717a—Pocket Book & Bag Frames

Goertz, Aug. & Co., Newark, N. J.
Havell Mfg. Co., 284 Washington, Newark, N. J.
Mergott, J. E. Co., Newark, N. J.
Milwaukee Stamping Co. (Also Fittings), West Allis, Wis.
Neumann, R. Hardware Co. (Also Fittings), Newark, N. J.
Potter, E. & Co., Newark, N. J.
Strauss, Michael (Also Fittings), 395 B'way, New York

## 8718— Pockets (Coal)

Dempcy-Degener Co., Pittsburg, Pa.
Eagle Foundry & Machine Co., Fort Scott, Kan.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hendrick Mfg. Co., Carbondale, Pa.
Howe Scale Co., of Illinois, 1315 Wabash av Chicago, Ill.

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**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading R'y, Phila., Pa. (See adv. index & branch offices, end of book)

## 8719—Pockets (Cotton Waste)

Knapp Mfg. Co., 20 Warren, New York

## 8720— Pockets (Draw Bar)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.

## 8720a— Pockets (Stake)

**RICHARDS - WILCOX MFG. CO.** ("Richards" Steel), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## Pointers (Bolt)

(See Machines, Bolt Pointing)

## 8721— Pointers (Dowel)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Cincinnati Tool Co. ("Hargrave's"), Cincinnati, O.
Stearns, E. C. & Co., Syracuse, N. Y.

## 8721a— Pointers (Pencil)

Dick, A. B. Co. (Planetray), Chicago, Ill., & New York

## 8722— Pointers (Spoke)

Cincinnati Tool Co. ("Hargrave's"), Cincinnati, O.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Silver Mfg. Co., Salem, O.
Southington Mfg. Co., Southington, Conn.
Stearns, E. C. & Co. (Also Dowel), Syracuse.
Swan, Jas. Co., Seymour, Conn. N. Y.

## 8723— Pointers (Wire)

Brown & Sharpe Mfg. Co., Providence, R. I.
Welch, T. F. & Co., Boston, Mass.

## Points (Carbon)

(See Tools, Diamond)

## 8724— Points (Cultivator)

(See also Points, Plow)
Harrow Spring Co., Kalamazoo, Mich.
Mason, F. C. & Co. (Spring Tooth, Single & Double Pointed), St. Johns, Mich.

## 8725— Points (Drill)

Goodell-Pratt Co. (Plain or Fluted Shank), Greenfield, Mass.
Millers Falls Co. (For Hand Drills), 28 Warren, New York. Works: Millers Falls, Mass.

## 8726— Points (Drive Well)

Baker Mfg. Co., Evansville, Wis.
Gowanda Agricultural Works, Gowanda, N. Y.
Love, M. A. Mfg. Co., Rockford, Ill.
McEvoy, J. H. & Co., Houston, Tex.
Mark Mfg. Co., Evanston, Ill.
National Tube Co. (Mfrs. of All Kinds of Well Points & Supplies), Pittsburg, Pa.
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Stancliff Well Screen & Mfg. Co., Houston, Texas

## 8727— Points (Glazier's)

Atlas Tack Co., Fairhaven, Mass.
Austin & Eddy ("Peerless"), Boston, Mass.
Holland Mfg. Co. (Zinc), Baltimore, Md.
Hubbard & McClary, Windsor, Vt.
Maze, W. H. & Co. ("Zinc City"), Peru, Ill.
National Sheet Metal Co. (Zinc), Peru, Ill.
Penn Tack Co., Norristown, Pa.
Phillips, E. & Sons, South Hanover, Mass.
Shelton Co., Shelton, Conn.
Waddell, R. J. & Co., 52 Beekman, New York

## 8728— Points (Grain Drill)

Crescent Forge & Shovel Co., Havana, Ill.
Empire Plow Co., Cleveland, Ohio.
Mason, F. C. & Co., St. Johns, Mich.
Weyburn Co., Rockford, Ill.

## 8729— Points (Harrow)

American Knife Co. (Reversible & Detachable), Baldwinsville, N. Y.

## 8729a—Points (Lightning Rod)

UNITED WIRE & SUPPLY CO. (Brass & Copper), 109 Summer, Providence, R. I. (See adv. index, end of book)

## 8730—Points (Picture Frame)

Maze, W. H. & Co. (Steel), Peru, Ill.
Shelton Co., Shelton, Conn.

## 8731— Points (Platinum)

Croselmire & Ackor Co. (For Spark Coils), 42 Walnut, Newark, N. J.
Lemke Electric Co., Milwaukee, Wis.

## 8732—Points (Platinum Sparking)

AMERICAN PLATINUM WORKS (For Spark Coils), Chestnut st & N. J. R. R. av, Newark, N. J. (See adv. index, end of book)
Baker & Co. (Gas & Gasoline Engines), Newark, N. J.
Croselmire & Ackor Co. (For Spark Coils), 42 Walnut, Newark, N. J.

## 8733— Points (Plow)

(See also Points, Cultivator)
Havana Metal Wheel Co., Havana, Ill.
McMaster, R. C., Adamsville, Pa.
Moore Plow & Implement Co. ("Moore"), Greenville, Mich.

## 8734— Points (Stone)

Atha Tool Co., Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.

## 8735— Points (Switch)

American Railway Device Co. ("Economy", Separable), McCormick bldg, Chicago, Ill.
Cleveland Railway ("Mitchell", "Economy", Separable), Cleveland, O.
Economy Separable Switch Point Co. ("Economy" Separable), Louisville, Ky.

## 8736— Points (Trammel)

Athol Machine Co., Athol, Mass.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Economy Mfg. Co., 506 Commerce, Phila., Pa.
Goodell-Pratt Co., Greenfield, Mass.
Jennings, C. E. Co., 42 Murray, New York
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Stanley Rule & Level Co., New Britain, Conn.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass.
Tower & Lyon Co., 95 Chambers, New York

## Points (Well)

(See Points, Drive Well)

## 8737—Poker Chips (Soft Rubber)

GOODRICH, B. F. CO., Akron, O. (See adv. index & branch offices, end of book)

## 8738— Poker (Stove)

Adams Co., Dubuque, Iowa
ARCADE MFG. CO. ("Siberian" & "Serpentine"), Freeport, Ill. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Fanner Mfg. Co., Cleveland, O.
Griswold Mfg. Co., Erie, Pa.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Peck, Stow & Wilcox Co., Southington, Conn.
Pfeifer, John & Co., 222 Rose, Phila., Pa.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co. ("Ideal" Wire Handle, also Furnace Pokers), Freeport, Ill.
Wire Goods Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

## 8739— Pokes (Animal)

Hughes & Smythe ("Galena", "Never-Fail", "Victor"), Galena, O.
Montross, R. W. ("Camp's," "Galien" & "Hartman"), Galien, Mich.
Osmundson Spade Mfg. Co. ("Norwegian" Steel), Perry, Ia.
Tuller Cultivator Co. ("American"), Kansas City, Mo.
Weathers Poke Co., Windsor, Mo.
Wire Goods Co., Worcester, Mass.

## 8740— Pole-Crabs

Druen, B. D., New Haven, Conn.
English & Mersick Co., New Haven, Conn.
Rounds, D. & Son, Cleveland, O.
Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

## 8741— Pole Erectors

Matthews, W. N. & Bro. ("Matthews" for Erecting Trolley & Telegraph Poles, etc.), St. Louis, Mo.

## 8742— Poles (Arc Lamp)

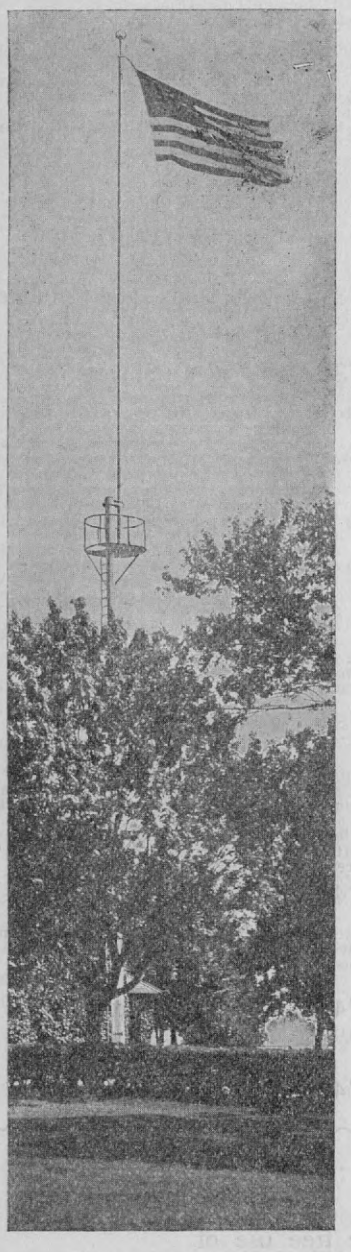
(See Poles, Iron & Steel)


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**Hendricks' Commercial Register**


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Steel Tubular

# POLES AND MASTS

STRONG GRACEFUL
EVERLASTING
LIGHTNING PROOF

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Easily put up.

No bolts or screws in joints.

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from 25 to 360 ft. high.

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(POLE DEPARTMENT)

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## 8743– Poles (Curtain)

Berbecker & Rowland Mfg. Co. (Brass, also Trimmings), Waterville, Conn.
Judd, H. L. Co. (Wood), 87 Chambers, New York
Kroder, Jno. & Henry, Reubel Co. (Brass & Wood Poles & Trimmings), 107 E 117th, New York
Roos Mfg. Co. (Wood), 1051 W 16th, Chicago, Ill.
South Side Mfg. Co. (Wood). Petersburg, Va.
Webb Mfg. Co. (Wood), Emlenton, Pa.

## 8744–Poles (Flag, Iron & Steel)

(For Wooden Poles, see Ties, Poles & Posts)
Blessing, Louis, Jackson, Mich.
**BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)**
**Brown, L. H. Fence & Mfg. Co., Cincinnati, O.**
**Creaghead Engineering Co., 815 Walnut, Cincinnati, O.**
**DES MOINES BRIDGE & IRON CO., 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)**
**Greenlie, Wyatt & Co., 499 Water, New York**
**Griffith Iron Works, St. Louis, Mo.**
Jones, Thos. W. (Also Fittings), 22 Burling pl, New York
Krokobola Co. ("Poe" Tower), Olney, Ill.
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
National Tube Co., Pittsburg, Pa.
Phoenix Steel Construction Co., Pittsburg, Pa.
St. Louis Car Wheel Co., St. Louis, Mo.
**SIMMONS, JOHN CO., 104 Centre, New York. (See adv. index, end of book)**
Stover Mfg. Co., Freeport, Ill.
**Vulcan Iron Works, 327 N Irving av, Chicago, Ill.**
Wisconsin Bridge & Iron Co., Milwaukee, Wis.

## 8745–Poles (Flag Wood)

**BOSTON OREGON MAST CO., 131 Coleridge, E Boston, Mass. (See adv. index, end of book)**
Chesebro, Whitman Co., 1167 1st av, New York

## 8746–Poles (Iron & Steel)

(For Street Railways & Electric Lights; see also Posts, Arc Lamp; for Wooden Poles, see Ties, Poles & Posts)
American Bridge Co., Frick bldg, Pittsburg Pa.
**DES MOINES BRIDGE & IRON CO., 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)**
**Diamond Steel Pole Co., Land Title bldg, Phila., Pa.**
Electric Railway Equipment Co. (Wire-Locked Swedged Joint Tubular), Cincinnati, O.
Franklin Steel Co. ("Tripartite" Steel), Franklin, Pa.
Lundin Electric & Machine Co. (Ornamental Goose Neck), Boston, Mass.
Mott, J. L. Iron Works (Ornamental), 118 5th av, New York
Morris Iron Co. (Plain & Ornamental), 90 West, New York. Works: Frederick, Md.
National Tube Co., Pittsburg, Pa.
**Sciple Sectional Pole Co., Minneapolis, Minn.**
**SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)**
U. S. Metal & Mfg. Co. ("Diamond" Tapered for Electric R'ys, Telephone Lines, etc.), 165 B'way, New York

## 8747– Poles (Pike)

American Logging Tool Co., 150 Michigan av, Chicago, Ill.
**Anderson Tool & Supply Co., Detroit, Mich.**
Branch Saw Co., St. Louis, Mo.
Champion Tool & Handle Works, Evart, Mich.
Columbus Handle & Tool Co., Columbus, Ind.
Dicke, C. H. Tool Co., Downers Grove, Ill.
Evart Tool Co. (Ltd.), Evart, Mich.
Gerlach, Peter Co., Cleveland, O.
**Klein, Mathias & Sons (Guarded or Plain), 562 W Van Buren, Chicago, Ill.**
Oshkosh Mfg. Co., Oshkosh, Wis.
Roberts, Geo. 1st & Liberty av, Pittsburg, Pa.
**UNION ELEVATOR & MACHINE CO., 215 W Ontario, Chicago, Ill. (See adv. index, end of book)**
Warren Axe & Tool Co., Warren, Pa.

## 8748–Poles (Pipe, Street Railway)

National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

## 8749–Poles (Steel Tubular, Flag, Etc.)

**SIMMONS, JNO. CO., 104 Centre, New York. (See adv. index, end of book)**

## 8750– Poles (Trolley)

Columbia Machine Works & Malleable Iron Co. (Made of Steel Tubing), 269 Chestnut, Brooklyn, N. Y.
**Diamond Steel Pole Co., Land Title bldg, Phila., Pa.**
Electric Railway Equipment Co., Cincinnati, O.
Electric Traction Supply Co. (Cold-Drawn Seamless Steel Tubing), St. Louis, Mo.
Garford Co. (Cold-Drawn Seamless Steel Tubing), Elyria, O.
Garton, W. R. Co. (Seamless Steel Tubing), 118 W Jackson boul, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)**
Harris, Wm. & Son Co. (Steel), N S, Pittsburg, Pa.
Hartwell, C. L. & Co., Chicago Heights, Ill.
**National Tube Co., Pittsburg, Pa.**

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**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa.** (See adv. index, end of book)
Ohio Brass Co., Mansfield, O.
Reading Iron Co., Reading, Pa.
Valley Forging Co. ("Pittsburg Standard" Trolley Poles, Butt Welded & "Verona" Seamless Poles), Verona, Pa.

## 8751—Poles (Window Pull-Down)

Piqua Handle & Mfg. Co., Piqua, O.

## Poles & Posts (Wood)

(See Ties, Poles & Posts)

## 8752— Polish (Cutlery)

Dilg Mfg. & Trading Co. ("Dilg," "Defiance" & "Acme" Plate & Steel Polish), 401 E 163d, New York

## 8753— Polish (Furniture)

(See also Metal Polish)

Aquart Mfg. Co., St. Louis, Mo.
Bridgeport Wood Finishing Co. ("Eastons"), New Milford, Conn.
Channell Chemical Co., 1534 W Lake, Chicago, Ill.
Cleanola Co. ("Cleanola," for All Varnish Surfaces), Pittsburg, Pa.
Great Western Oil Co. (Wax), Cleveland, O.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Lawrence, W. W. & Co. ("Lustre"), Pittsburg, Pa.
Lustre Chemical Co., 184 La Salle, Chicago, Ill.
Martin & Martin ("E-Z"), 3005 Caroll av, Chicago, Ill.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
Patton Paint Co. ("Sunbright"), Milwaukee, Wis.
Pratt, B. G. Co. ("Hydrowax" for Cleaning & Polishing), 50 Church, New York
Rath Mfg. Co. ("Ye-Olde-Homestead"), Hedley & Richmond, Phila., Pa.
Sonneborn, L. Sons (Inc.) ("Amalia" Oil for Piano, Furniture, Carriage Body, etc.), 262 Pearl, New York
Thumb, E. W., 872 Orleans, Chicago, Ill.
World Refining Co., Easton, Pa.

## 8754— Polish (Harness)

Peerless Mfg. & Sales Co. ("Peerless Putz", Black or Tan in Collar), 1011 Chestnut, Phila., Pa.

## 8755— Polish (Marble)

Eureka Polishing Powder Co., Tayloryille, Ill.

## 8756— Polishing Materials

**DOGGETT, STANLEY (All Kinds), 101** Beekman, New York. (See adv. index, end of book)

## 8757— Ponolith

Krebs Pigment & Chemical Co., Newport, Del.

## 8758— Poppers (Corn)

Bromwell Brush & Wire Goods Co., Cincinnati, O.
Chapman, C. A. ("More's" Reversible), Geneva, N. Y.
**DARBY, EDW. & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of book)
Delphos Mfg. Co. ("Delphos" Sheet Iron), Delphos, O.
Deshler Mail Box Co. ("Snow Flake"), Deshler, O.
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
**MEYERS, FRED J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
Parker Wire Goods Co., Worcester, Mass.
Ressler, G. S. ("Star"), Lansing, Mich.
Reynolds Wire Co., Dixon, Ill.
Rice & Co., Lowell, Mass.
Royal Polished Steel Rooster Co. ("Troy"), Troy, O.
Utility Mfg. Co. ("Utility"), Sturgis, Mich.
Western Wire Goods Co., Buffalo, N. Y.
Wickwire Bros., Cortland, N. Y.
Wire Goods Co., Worcester, Mass.

## 8759— Porcelain Enameling

Wheeler Reflector Co., 156 Pearl, Boston, Mass.

## 8760—Porcelain Specialties (Electrical, Mechanical, Etc.)

American Carbon & Battery Co., East St. Louis, Mo.
Anderson Porcelain Co., East Liverpool, O.
Artistic Porcelain Co., Trenton, N. J.
Brunt, G. F. Porcelain Wks., East Liverpoo,l O.
Cary, Edw. F. Co. (Importers), 30 Church, New York
Colonial Sign & Insulator Co., Akron, Ohio.
Cook Pottery Co., Trenton, N. J.
Diamond Porcelain Co., Trenton, N. J.
Electric Porcelain Co., East Liverpool, O.
Empire China Work, 150 Green, Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hartford Faience Co. (Electrical), Hartford, Conn.
Imperial Porcelain Works, Trenton, N. J.
Lima Insulator Co. (Electrical Only), Lima, New York
National Electric Porcelain Co., Carey, O.
National Porcelain Co., Trenton, N. J.
Pass & Seymour (Electrical Only), Solvey, N. Y.
Peru Electric Mfg. Co. (Electrical Only), Peru, Ind.
Pittsburg High Voltage Insulator Co. (Porcelain Insulators, Wall Bushings, Tubing, etc.), Derry, Pa.
Star Porcelain Co., Trenton, N. J.
Thomas, R. & Sons Co., East Liverpool, O.
Trenton Porcelain Co., Trenton, N. J.
Union Electrical Porcelain Works, Trenton, N.J.
Union Porcelain W'ks, 300 Eckf'd, B'klyn, N. Y.
U. S. Electric Porcelain Co., New Cumberland, W. Va.
Wirt Mfg. Co., Burrage, Mass.

## 8761— Port Lights (Ship)

Delaware Marine Supply Mfg. Co., Wilmington, Del.
Gibson & Kirk Co., 517 E Montgomery, Baltimore, Md.
Manitowoc Dry Dock Co., Manitowoc, Wis.
Marine Hardware Co., Peabody, Mass.
Marine Mfg. & Supply Co., 158 South, New York
Petersen, C. F. & Co., Phila., Pa.
Turner Brass Works, Sycamore, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

## 8762— Portable Houses

Billings-Stevens Co., 4 E 42nd, New York
Bossert, Louis & Son, 1335 Grand, Brooklyn, N. Y.
Chapman, Geo. H., St. Louis, Mich.
Cheseboro, Whitman Co., 1167 1st av, New York
Columbian Steel Tank Co. (Fireproof), Kansas City, Mo.
Ducker Co. (Iron & Wood), 277 B'way, New York
Harry Bros. Co. ("Harry's", Galvanized Iron), Newport, Ky., & New Orleans, La.
Harry, O. K. Steel Co. (Auto Garages), St. Louis, Mo.
Hodgson, Ernest F. Co., Boston, Mass.
Kanneberg Roofing & Ceiling Co., Canton, O.
Knapp Portable Bldg. Co., 123 Liberty, New York
Karr Portable House Co., 2554 W Irving pk boul, Chicago, Ill.
Mershon & Morley Co. (Cottages, Houses. Cabins, Ranches, Depots. Baths, Hospitals. etc., Portable for All Uses; also Portable Double Folding Beds, etc.), Saginaw, Mich.
Metal Shelter Co. ("Pruden", Galvanized Steel), St. Paul, Minn.
Phenix Mfg. Co., Humboldt av, cor Center, Milwaukee, Wis.
Portable Construction Co. (Of All Kinds for All Purposes), 50 Church, New York
Southern Foundry Co. (Steel), Owensboro, Ky.
Springfield Portable Construction Co., Springfield, Mass.
Squires, Henry C. & Son (Houses, Cottages. Hospitals, etc., without Nail or Screw), 44 Cortlandt, New York

## 8763— Portables (Electric)

(See also Lights, Desk)

Acorn Shade & Reflector Co., 73 Ellen, Chicago, Ill.
Amboy Works, Perth Amboy, N. J.
American Brass & Copper Co., 138 Lafayette, New York
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Chicago Lamp & Reflector Co., 319 S Canal, Chicago, Ill.
Dale Co., 9th av & 13th, New York
Gail-Webb Mfg. Co., Buffalo, N. Y.
Goodwin & Kintz Co., Winsted, Conn.
H. C. K. Co., 30 Greenwich, New York
Hamilton Mfg. Co., Pittsburg, Pa.
Handel Co., Meriden, Conn
McLeod, Ward & Co., 27 Thames, New York
Miller, Edw. & Co., Meriden, Conn.
Neuhauser, D. L., 242 S Water, Chicago, Ill.
Pacific Elec. Co. ("Espersen"), La Crosse, Wis.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Straight Filament Lamp Co. ("O'Brien", Straight Filament Tube Lamps). Kenilworth, N. J.
Tietgen, Folk & Co., 81 W Van Buren, Chicago, Ill.
Unique Art Glass & Metal Co., 105 Vanderveer, Brooklyn, N. Y.
Wells Light Mfg. Co. ("Wallworks"), Jersey City, N. J.

## 8764— Post Caps & Bases

Castle, A. M. & Co. ("Castle" "Star" Steel or Malleable Post Caps & Grinder Supports), 217 N Jefferson, Chicago, Ill.
Clark, W. J. Co., Salem, O.
Goetz Box Anchor Co., New Albany, Ind.
Ideal Hanger Co. ("Ideal" Steel), Cleveland.
Lanz, M. & Sons, Pittsburg, Pa. Ohio
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**TRUSSED CONCRETE STEEL CO.** ("Kahn" System), Detroit, Mich. (See adv. index for branch offices, end of book)

## 8764a—Post Cards (Advertising)

Pictorial Post Card Co., Rochester, N. Y.

## 8765—Post Office Equipments

American Post Office Equipment Co., 277 Dearborn, Chicago, Ill.
Keyless Lock Co., Indianapolis, Ind.
McLane Mfg. Co., Milford, N. H.
Waddell Woodenware Works Co. (Routing Tables, Distributing Cases, etc.), Greenfield, O.
Yale & Towne Mfg. Co., 9 Murray, New York

## 8766— Posts (Arc Lamp)

(See also Poles, Iron & Steel)

Ajax Line Material Co. ("Universal"), So. Milwaukee, Wis.
Cutter, Geo. Co., South Bend, Ind.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.
Illinois Malleable Iron Co., 1801 Diversey blvd, Chicago, Ill.
Lundin Elec. & Machine Co., Boston, Mass.
**MEYERS, FRED'K J. MFG. CO.,** Hamilton, O. (See adv. index, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Williams, Jno., 556 W 27th, New York

## 8767— Posts (Binding)

American Pin Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bunnell, J. H. & Co., Park pl & Church, New York
Chicago Nut Co., Chicago, Ill.
Cook, H. C. Co., Ansonia, Conn.
Corbin Screw Corporation, New Britain, Conn.
Dickinson Mfg. Co., Springfield, Mass.
Electric Goods Mfg. Co., 44 Pearl, Boston, Mass.
Fahnestock Electric Mfg. Co. (Spring), Brooklyn, N. Y.
Foote, Pierson & Co., New York
Hartford Machine Screw Co., Hartford, Conn.
International Brass & Electric Co. (Brass, etc.), 76 Beekman, New York
Kellogg Switchboard & Supply Co., Congress & Green, Chicago, Ill.
Manhattan Electrical Supply Co., 17 Park pl, New York
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Ostrander, W. R. & Co., 23 Dey, New York
Partrick, Carter & Wilkins Co., Phila., Pa.
Springfield Machine Screw Co., Springfield, Mass.
Standard Mfg. Co., Bridgeport, Conn.
Stanley & Patterson, 23 Murray, New York
Trumbull Electric Mfg. Co., Plainville, Conn.
United Metal Mfg. Co., 525 W 26th, New York
Waterbury Mfg. Co., Waterbury, Conn.
Welch, T. F. & Co., Boston, Mass.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

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## 8768—Posts (Car Bumping)

McCord & Co. ("Gibraltar"), 150 Michigan av, Chicago, Ill.
Mechanical Mfg. Co. ("Ellis"), Union Stock Yards, Chicago, Ill.
National Railway Materials Co. ("Hercules"), 90 West, New York
Railroad Supply Co., Bedford bldg, Chicago, Ill.
Scott Mfg. Co. ("Hercules"), Racine, Wis.
Stowell Mfg. & Foundry Co. (Cast Iron), South Milwaukee, Wis.

## 8769— Posts (Concrete)

Birch, S. & Sons Construction Co. (Hitching, etc.), Fargo, N. D.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)

## 8770— Posts (Drilling)

Irving Mfg. & Tool Co., 169 Chambers, New York
Keystone Mfg. Co., Buffalo, N. Y.
King, A. R. Mfg. Co., Kingston, N. Y.
Lovejoy Tool Works ("Lovejoy" Base or Double Jaw), 335 W Ohio. Chicago, Ill.
Lowell Wrench Co., Worcester, Mass.

## 8771— Posts (Hitching)

Amos, Chas. & Co., Detroit, Mich.
Barber Mfg. Co. (Painted & Bronzed), Ashtabula, O.
Belmont Iron Works, Philadelphia, Pa.
Bloomfield Mfg. Co., Bloomfield, Ind.
**BOLLES, J. E. IRON & WIRE** Works: Detroit, Mich. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Cheney, S. & Sons (Cast Iron), Manlius, N. Y.
Cincinnati Iron Fence Co., Cincinnati, O.
Cincinnati Mfg. Co. (Cast Iron), 1243 W 6th. Cincinnati, O.
Comstock, Geo. S., Mechanicsburg, Pa.
Dempster Mill Mfg. Co. (Cast Iron), Beatrice, Neb.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Donaldson Bros., Mount Clemens, Mich.
Dutton, E. Q. & Co., Cato, N. Y.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Gale Mfg. Co., Albion, Mich.
Glen Mfg. Co. (Wrought Steel), Ellwood City, Pa.
Gowanda Agricultural Works Co. (Cast Iron), Gowanda, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hayes Pump & Planter Co. (Ornamental Cast
Hays Mfg. Co., Erie, Pa. Iron), Galva, Ill.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Kokomo Fence Machine Co., Kokomo, Ind.
Lowe, M. A. Mfg. Co. (Cast Iron), Rockford, Ill.
Lyon Iron Works, Greene, N. Y.
**MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)**
Mast, Foos & Co. (Iron & Steel), Springfield, O.
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Novelty Iron Works, Sterling, Ill.
Peters, F. N. & Bro., Newside, Pa.
Pfaff & Kendall (Iron), Newark, N. J.
St. Johns Foundry Co. (Cast Iron), St. Johns, Mich.
Seiferlein Wire & Iron Works. Detroit. Mich.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith Mfg. Co., Waynesboro, Pa.
South Bend Foundry Co. (Cast Iron), South Bend. Ind.
Stover Mfg. Co., Freeport, Ill.
Swett, A. L. Iron Works, Medina, N. Y.
Van Dorn Iron Works Co., Cleveland, O.
Weller Hardware & Foundry Co. (Cast Iron), Horseheads. N. Y.
Woonsocket Machine & Press Co. (Cast Iron), Woonsocket, R. I.

## 8772— Posts (Indicator)

Bourbon Copper & Brass Works, Cincinnati, O.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Eddy Valve Co., Waterford, N. Y.
Glamorgan Pipe & Foundry Co., Lynchburg, Va.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Ludlow Valve Mfg. Co., Troy, N. Y.
Pirkl, Jno. Iron Works, Inc., 240 N 10th, Brooklyn, N. Y.
Rensselaer Valve Co., Troy. N. Y.
Roe-Stephens Mfg. Co., Detroit, Mich.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 8773—Posts (Iron Railing)

(See Posts, Iron & Steel)

## 8774—Posts (Iron & Steel)

Acme Fence & Foundry Co., New Albany, Ind.
Adams, W. J. (Steel), Joliet, Ill.
Amos, Chas. & Co., Detroit, Mich.
**ANCHOR POST IRON WORKS, 147 Nassau,** New York. (See adv. index, end of book)
Avery Stamping Co. ("Never-Break"), Cleve-
Bayley, Wm. Co., Springfield, O. land, O.
Bloomfield Mfg. Co., Bloomfield, Ind.
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Bond Steel Post Co. (Steel Fence), Adrian, Mich.
**BURTON, H. J. CO. (Trussed Iron** Fence), 161 W Congress, Detroit, Mich. (See adv. index, end of book)
Childers & Harker (Iron), Carbondale, Ill.
Cincinnati Iron Fence Co. (Fence), Cincinnati, Ohio
Common Sense Fence Co., Homer, Mich.
De Kalb Fence Co., De Kalb, Ill.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Dwiggins Wire Fence Co., Anderson, Ind.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Harmon & Cookston (Steel), Rosewood, O.
Illinois Fence Machine Co. (Steel), Leroy, Ill.
Kokomo Fence Machine Co., Kokomo, Ind.
Milwaukee Steel Post Co. (Steel Fence & Portable Steel Clothes Posts), Milwaukee, Wis.
Missouri Anchor Fence Co., St. Joseph, Mo.
Myers, Chas. H. & Co. (Steel), Leroy, Ill.
Peter, F. N. & Bro., Newside, Pa.
Prairie States Mfg. Co. ("Prairie," Steel Fence & Gate), Cedar Rapids, Ia.
Railroad Supply Co. (Steel for Railway Fences) Bedford bldg, Chicago, Ill.
Reder Foundry Co. (Cast Iron Fence, etc.), 2125 Canalport av, Chicago, Ill.
Republic Iron & Steel Co., Youngstown, O.
Schwab, R. J. & Sons Co., Milwaukee, Wis.
Scott-Madden Iron Works Co. (Ornamental Cast Iron), 3rd National Bank bldg, St. Louis, Mo.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Southwestern Machinery & Supply Co. ("Carbo," Steel Fence Posts), Los Angeles, Cal.
Taylor Co., Morgan & Norman avs, Brooklyn, N. Y.

## 8775— Posts (Lamp)

Baldwin Brass Works, 525 W Van Buren, Chicago, Ill.
Belmont Iron Works, 2215 Wash'n av, Phila., Pa.
**CABARET, PAUL E. & CO. (Bronze),** 342 W 14th, New York. (See adv. index, end of book)
Casey-Hedges Co. (Electric & Gaslight), Chattanooga. Tenn.
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Concord Foundry & Machine Co., Concord, N. H.
Creswell, S. J. Iron Works, 23d & Cherry. Philadelphia. Pa.
Davis & Farnum Mfg. Co., Waltham. Mass.
Davis & Thomas Co., Catasauqua, Pa.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Detroit Arch'l Iron Works Co., Detroit, Mich.
**DETROIT MAUSOLEUM EQUIPMENT** Works (Bronze), Detroit, Mich. (See adv. index, end of book)
Drummond, M. J. & Co., 182 B'way. New York
Fiske, J. W., 56 Park pl, New York
**FLOUR CITY ORNAMETAL IRON** Works (Street, Ornamental Iron), 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Globe Gas Light Co., Boston, Mass.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
**HENRY-BONNARD BRONZE CO.** (Bronze & Ornamental Iron), Mt. Vernon, N. Y. (See adv. index, end of book)
Independent Foundry Co., Portland, Oreg.
**JACKSON, WM. K. COMPANY, 2-4-6** W 47th, New York. (See adv. index & branch offices, end of book)
Kramer Bros. Foundry Co., Dayton, O.
McMurray, Robt. & Bro., 365 Harman, Brooklyn, N. Y.
Miner, Thos. T. W., 821 Eagle av, New York
Mott, J. L. Iron Works, 118 5th av, New York
Olympic Foundry Co. (Ornamental Cast Iron), Seattle, Wash.
Paxton & Vierling Iron Works, Omaha, Neb.
Penna. Globe Gas Light Co., Broad & Arch, Phila., Pa.
Pevey Foundry Co. (Inc.), Lowell, Mass.
Pirkl, Jno. Iron Works (Inc.) (Ornamental Iron), 240 N 10th, Brooklyn, N. Y.
Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y.
Rittenhouse, C. & Sons, Norristown, Pa.
**SMITH, F. P. WIRE & IRON W'KS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith, G. W. & F. Iron Co., Boston, Mass.
Smyser, Royer Co., York, Pa.
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Stacey Mfg. Co., Cincinnati, O.
Sun Vapor Street Light Co., Canton. O.
Union Metal Mfg. Co. (Pressed Steel), Canton, Ohio
Wells Architectural Iron Co., 219-221 E 144th, New York
Westervelt, A. B. & W. T., New York
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 8776—Posts (Newel, Iron & Bronze)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8777—Posts (Pawl, for Tugs)

Superior Iron Works Co. (For Power), Superior, Wis.

## 8778—Posts (Railing, Brass & Bronze)

**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York. Works: Providence, R. I. (See adv. index, end of book)

## 8778a—Posts (Railing, Iron & Bronze)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices end of book)

## 8779—Posts (Railway Signal)

Buda Co., Railway Exch bldg, Chicago, Ill.

## 8780— Posts (Stanchion)

Wilcox, Crittenden & Co., Middletown, Conn.

## 8781—Posts (Tungsten Lamp)

**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
**SNEAD & CO. IRON WORKS, ft of** Pine, Jersey City, N. J. (See adv. index, end of book)
**WINSLOW BROS. CO., 4600 Harri**son, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8782— Posts & Ties (Pit)

Pittsburg Pit Post Co., Arrott bldg, Pittsburg, Pa.

## 8783— Potash

Apothecaries Hall Co. (Liquid), Waterbury, Conn.
Babitt, B. T., 11 B'way, New York
Baker, H. J. & Bro. (Salts, Muriate, Sulphur, etc.), 100 William, New York
Billings, Clapp & Co., Boston, Mass.
Bower, Henry Chemical Mfg. Co. (Yellow Prussiate of Potash), 29th & Gray's Ferry rd, Phila., Pa.
Brower, Jno. & Co., 16 Water, New York
Butler, E. W. Co., Escanaba, Mich.
German Kali Works (Salts. Muriate, Sulphate. etc.), 93 Nassau, New York
Grasselli Chemical Co. (Salts, Muriate, etc., Imported), Cleveland, O.

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Harshaw, Fuller & Goodwin Co. (Bichromate & Cyanide), Cleveland, O.
Heller, Hirsch & Co. (Muriate, etc.), 62 William, New York
Hirsh, Leon & Son (Pearl Ash), 368 G'wich, New York
International Agricultural Corp. (Salts), 165 B'way, New York
International Chemical Co., Camden, N. J.
Jones, Enos F. Chemical Co. (Pearl Ash), 51 Jay, New York
Klipstein, A. & Co. (Of All Kinds), 122 Pearl, New York
Mallinckrodt Chemical Works (Caustic), St. Louis, Mo.
Mechling Bros. Mfg. Co. (Granulated Caustic), 949 N 9th, Phila., Pa.
Munro, Robt. A. & Co. (Muriate & Sulphite), 31 Liberty, New York
New Orleans Acid & Fertilizer Co. (Muriate, etc.), New Orleans, La.
New York Chemical Works, 261 Greenwich, New York
Niagara Alkali Co. (Electrolytic Caustic), Niagara Falls, N. Y.
North American Chemical Co. (Chlorate, etc.), Bay City, Mich.
Penn Chemical Works (Powdered Caustic), Phila., Pa.
Penna Salt Mfg. Co. (Bichromate of Potash), 115 Chestnut, Phila., Pa.
Powers-Weightman-Rosengarten Co., Phila., Pa.
Roessler & Hasslacher Chemical Co. (Prussiate, Carbonate, Caustic, Chlorate, etc.), 100 Williams, New York
Sholes, Chas. E. Co. (Carbonate, Caustic & Cyanide), 164 Front, New York
Solvay Process Co. (Caustic), Syracuse, N. Y.
Standard Guano & Chemical Mfg. Co. (Muriate, Sulphate), New Orleans, La.
Thomsen Chemical Co., Baltimore, Md.
Walter, Edw. J. Co. (Salts), Baltimore, Md.
White, Thos. H. & Co. (Muriate, etc.), Baltimore, Md.
Wiarda, Jno. & Co. (Carbonate, Cyanide, Caustic & First Sorts), 259 Greenpoint av, Brooklyn, N. Y.

## 8784—Potato Coverers & Hillers

Allen, S. L. & Co. ("Planet, Jr."), 1017 Market, Phila., Pa.
Caledonia Bean Harvester Works, Caledonia, N. Y.
Champion Drill Co., Avon, N. Y. N. Y.
Champlain Agricultural Works ("Palmer" Hoe & Coverer), Champlain, N. Y.
Dorsch, John & Sons (Combination Hiller & Digger), Milwaukee, Wis.
Dorsch, Lorenz & Son (Hiller), Milwaukee, Wis.
Doughten, H. W. ("Darnell's" Furrower & Coverer), Moorestown, N. J.
Eddy, W. Plow Co. (Coverer), Greenwich, N. Y.
Empire Plow Co., Cleveland, O.
Everts & Andrews (Hiller), Meridian, N. Y.
Hirsch Bros. (Hiller), Milwaukee, Wis.
Hussey Plow Co., N Berwick, Me.
Le Roy Plow Co., Le Roy, N. Y.
Munnsville Plow Co., Munnsville, N. Y.
New York Agricultural Co., Boonton, N. J., & 51 Cliff, New York
Northwestern Steel & Iron Works, Eau Claire, Wis.
Nowviock, J. H. & Sons (Coverer & Digger). Bloomsburg, Pa.
Rowell, I. B. & Co. (Hiller), Menomonee Falls, Wis.
Sargent, Osgood & Roundy Co. (Hiller), Randolph, Vt.
Sweet, Geo. Mfg. Co. (Hiller), Dansville, N. Y.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Yorks, W. R., Honeoye Falls, N. Y.

## 8785— Potentiometers

**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)

## 8786— Potheads & Sleeves

Bissell, F. Co. ("Novelty"), Toledo, O.
G. & W. Electric Co. ("G. & W.", Detachable Porcelain), 6408 Stony Island av, Chicago, Ill.
**OKONITE CO. ("Candee"), 253** B'way, New York. (See adv. index, end of book)

## 8787— Pots (Annealing)

**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
Colonial Sign & Insulator Co. ("Colonial" All Porcelain Potheads), Akron, O.
G. & W. Electric Specialty Co. ("G. & W." Detachable Porcelain), 627 W Jackson boul, Chicago, Ill.
MacKenzie's Duncan & Sons Co., Trenton, N. J.
Morgan Construction Co., Worcester, Mass.
Phila. Roll & Machine Co., Phila., Pa.
**PRESSED STEEL TANK CO. (Seamless, Steel)**, Milwaukee, Wis. (See adv. index, end of book)
**STRONG, CARLISLE & HAMMOND CO.,** 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Waterbury Machine Co., Waterbury, Conn.

## 8788—Pots (Asphalt & Mastic)

Evans, F. H., 31 Hewes, Brooklyn, N. Y.

## Pots (Burnishing)

(See Stoneware, Chemical)

## 8789— Pots (Cast Iron)

United States Cast Iron Pipe & Foundry Co., 71 B'way, New York

## 8790— Pots (Caustic)

Bethlehem Foundry & Machine Co. (Cast Iron), So. Bethlehem, Pa.
**BUFFALO FOUNDRY & MACHINE** Co. (Cast Iron), Buffalo, N. Y. (See adv. index, end of book)

## 8791— Pots (Chemical)

Bethlehem Foundry & Machine Co. (Cast Iron), Front, South Bethlehem, Pa.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)**
Carolina Iron Works (Nitre), Baltimore, Md.
Hancock-Hohnes F'dry & Machine Works (Nitre), Atlanta, Ga.
Larrabee, H. C. & Co. (Cast Iron Nitre Pots), Baltimore, Md.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Marshall Foundry Co., Pittsurg, Pa.
Moore, Sam'l L. & Sons Corp'n, Elizabeth, N. J.

## Pots (Decanting)

(See Stoneware, Chemical)

## Pots (Dross)

(See Kettles, Dross)

## 8792— Pots (Fire)

(See also Furnaces, Gasoline Blow)

American Brass & Copper Co. ("American"), 138 Lafayette, New York
Ashton Mfg. Co. ("Red Hot"), Newark, N. J.
Barthel Blow Lamp Co. ("Barthel"), Boston, Mass.
Berger Bros. Co., 237 Arch, Phila., Pa.
Best Street Light Co., Canton, O.
Canedy-Otto Mfg. Co. ("Royal" Needs No Clay), Chicago Heights, Ill.
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Chicago Hardware Foundry Co. ("Lundy", Double Blast), North Chicago, Ill.
Clayton & Lambert Mfg. Co. (Gasoline), Detroit, Mich.
Detroit Heating & Lighting Co. (Tinners'), Detroit, Mich.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.
Hull, J. S. Mfg. Co. ("Hull" Patent for Canners, etc.), Baltimore, Md.
**KEMP, C. M. CO. ("Climax," Gas),** 401 E Oliver, Baltimore, Md. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS.** ("Charcoal, Gas, etc.), Buffalo, N. Y. (See adv. index, end of book)
Schneider & Trenkamp Co. (Works), Cleveland, O.
Turner Brass Works, Sycamore, Ill.
Wotherspoon, Jas. R. (Tinsmiths). 238 N Front, Phila., Pa.

## Pots (Galvanizing)

(See Kettles, Galvanizing)

## Pots (Glass Melting)

(See Glass House Clay Supplies)

## 8793— Pots (Glue)

(See also Heaters, Glue)

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Electric), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 8794— Pots (Lead)

Eastwood Wire Mfg. Co., Belleville, N. J.

## 8795— Pots (Marking)

Bradley, A. J. ("Bradley" Combination "Ball" Marking & Stencil), 101 Beekman, New York
Central Stamping Co., 174 Fulton, New York
Geuder, Paeschke & Frey Co. (Pieced Tin), Milwaukee, Wis.
Hanson, C. H., 44 Clark, Chicago, Ill.
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 8796— Pots (Melting)

Advance Mfg. Co., Erie, Pa.
American Fdry. & Mfg. Co., St. Louis, Mo.
**CANTON FOUNDRY & MACHINE CO.** (Cast Iron), Canton, O. (See adv. index, end of book)
Crane, W. M. Co. ("Vulcan"), 16 W 32nd.
Glenn Mfg. Co., St. Charles, Ill. New York
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
McCormick Mfg. Co., Dayton, O.
Orchard, S. J. (Gas), 49 Frankfort, New York
Stevens, Frederic B. (Babbitt Metal), Detroit, Mich.
**STRONG, CARLISLE & HAMMOND CO.,** 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
**WILFONG, MILLARD F. IRON WKS.** Co., 52nd & Grays av, Phila., Pa. (See adv. index, end of book)

## 8797— Pots (Mixing)

Graham, Chas. Chemical Pottery Works (Stoneware), 986 Met av, Brooklyn, N. Y.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 8798— Pots (Nitre)

(See Pots, Chemical)

## 8799— Pots (Paste)

**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

## 8799a— Pots (Salinometer)

**NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y.** (See adv. index, end of book)

## 8800— Pots (Saturating)

Biggs Boiler Works (For Rubber Mills), Akron, O.

## 8801— Pots (Slag)

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Colo.
Eastwood Wire Mfg. Co., Belleville, N. J.
Marshall Foundry Co., Pittsburg, Pa.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 8802— Pots (Solder)

American Electrical Heater Co. (Electric), Detroit, Mich.
American Fdry. & Mfg. Co., St. Louis, Mo.
Ashton Mfg. Co. ("Red Hot" Metal), Newark, N. J.
**BERNZ, OTTO, 21 Ashland av, Newark, N. J. (See adv. index & branch offices,** Best Light Co., Canton, O. end of book)
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Central Foundry Co., 90 West, New York

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Clayton & Lambert Mfg. Co., Detroit, Mich.
Essex Foundry, Newark, N. J.
Famous Mfg. Co., Grand Rapids, Mich.
Glenn Mf. Co., St. Charles, Ill.
Griswold Mfg. Co., Erie, Pa.
Hollands Mfg. Co., Erie, Pa.
Johnson, Wm. Hedenberg Works, Newark, N. J.
Jones Hollow Ware Co., Baltimore, Md.
Kupferle, Jno. C. Fdry. Co., St. Louis, Mo.
Modern Iron Works, Quincy, Ill.
Mott, J. L. Iron Works, 118 5th av, New York
New York Hollowware Co., 245 Water, New York
Osborne, C. S. & Co., Harrison, N. J.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Sayre, L. A. & Son, Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
Stuart & Peterson Co., Burlington, N. J.
Swett, A. R. Iron Works, Medina, N. Y.
Turner Brass Works, Sycamore, Ill.
Vulcan Electric Heating Co. ("Vulcan," Electric), 540 W Jackson boul, Chicago, Ill.

## 8803— Pots (Sprinkling)
(See Pots, Wateriing)

## 8804— Pots (Stencil Marking)
(See Pots, Marking)

## 8805— Pots (Tallow)
Akron Mfg. Co. (Heavy Tin), Akron, O.
American Tube & Stamping Co., Bridgeport, Conn.
Gem Mfg. Co. ("Gem" Heavy Brazed Steel), Pittsburg, Pa.
Hero Mfg. Co. (Steel), Gaul & Adams, Phila., Pa.
Johnson Mfg. Co., Urbana, O.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Noera Mfg. Co. (Nickel Plated Steel), Waterbury, Conn.
Wall, P. Mfg. Supply Co., N S, Pittsburg, Pa.

## 8806— Pots ( Tea & Coffee)
(See Copper Ware, Stamped, Plated, etc.; also Enameled Ware Mfrs.; also Tinware Mfrs.; also Percolators, Coffee)

## 8807— Pots (Tempering)
National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburg, Pa.

## 8808— Pots (Tinning)
REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

## 8809— Pots (Watering)
(See also Enameled Ware Mfrs.; also Tinware Mfrs.)
Atlantic Stamping Co. ("Atlantic," Sprinkling, Galvanized Iron & Tin), Rochester, N. Y.
Central Stamping Co., 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder, Paeschke & Frey Co. (Galvanized Iron, etc.), Milwaukee, Wis.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Lisk Mfg. Co. (Ltd.), ("Lisk" Galvanized Iron), Canandaigua, N. Y.
Wotherspoon, Jas. R. ("Wotherspoon"), 238 N. Front, Phila., Pa.

## 8810— Potters' Supplies
Golding Sons Co. (Clays, Feldspar, etc.), Trenton, N. J.

## 8811— Pounders (Steak)
ARCADE MFG. CO. (Or Meat), Freeport, Ill. (See adv. index, end of book)
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Ober Mfg. Co., Chagrin Falls, Ohio
Stover Mfg. Co., Freeport, Ill.
Wagner Mfg. Co. ("Daisy"), Cedar Falls, Ia.
Wrightsville Hardware Co., Wrightsville, Pa.

## 8812— Powder Mfrs.
Aetna Powder Co., 143 Dearborn, Chicago, Ill.
American Powder Mills ("Dead Shot," Black & Smokeless), 131 State, Boston, Mass.
American Smokeless Powder Co. (Smokeless), 131 State, Boston, Mass.
Austin Powder Co., Cleveland, O.
Black Diamond Powder Co., Mahanoy City, Pa.
Burton Powder Co. ("Mine-ite" & Blasting), Pittsburg, Pa.
California Vigorit Powder Co. (Explosive), San Francisco, Cal.
Cameron Powder Mfg. Co., Emporium, Pa.
Cressona Powder Co. (Explosive), Pottsville, Pa.
Dittmar Powder Works, 102 W 130th, New York

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Egyptian Powder Co., East Alton, Ill.
Equitable Powder Mfg. Co., East Alton, Ill.
Fairmont Powder Co. (Blasting), Wilmington, Del.
Giant Powder Co. (Blasting), San Francisco, Cal.
Great Western Powder Co. (Blasting), Toledo, Ohio
Hercules Powder Co., Wilmington, Del.
Hoynes Safety Powder Co. (Safety), Cleveland, O. Works: Massillon, O.
International Smokeless Powder & Chemical Co. (Smokeless Gun Powder), Wilmington, Del.
Jefferson Powder Co. (Blasting & Safety), Birmingham, Ala.
Keystone National Powder Co., Emporium, Pa.
King Powder Co. (Smokeless), First Nat'l Bank bldg, Cincinnati, O.
Lakeside Powder Co. (Blasting), Shenandoah, Pa.
McAbee, G. R. Powder & Oil Co. ("Tannelite", Safety, for Coal Mining), Pittsburg, Pa.
Miami Powder Co. (Black Blasting), 143 Dearborn, Chicago, Ill.
Miller, Jas. S., Sumneytown, Pa.
National Powder Co., 200 5th av, New York
Nitro Powder Co. (Gun Powder), Kingston, N. Y.
Pennsylvania Trojan Powder Co. ("Trojan" Non-Freezing), Allentown, Pa.
Peyton Chemical Works (Blasting), San Francisco, Cal.
Potts Powder Co. ("Coalite", for Coal Mining), 200 5th av, New York
Rendrock Powder Co., 11 B'way, New York
Roberts Powder Co., Shenandoah, Pa.
Robin Hood Ammunition Co. ("Robin Hood" & "Peerless" Smokeless Gun Powder, & "Eclipse" Half Smokeless and "Rapidite" Smokeless), Swanton, Vt.
Rockdale Powder Co., York, Pa.
Shamokin Powder Co. (High Explosives), Shamokin, Pa.
Standard Powder Co. (Black), Pittsburg, Pa.
Trojan Powder Co. ("Trojan"), Oakland, Cal.
Trojan Powder Co., 65 Pine, New York
United States Powder Co. (Explosive), Terre Haute, Ind.
Western Powder Mfg. Co., East Alton, Ill.

## 8813— Powder Thawers
Independent Powder Co. of Missouri, Joplin, Mo
Rundle, A. J. ("Rundle's"), Iron Mountain, Mich.

## Powders (Aluminum)
(See Bronze Powders)

## 8814— Powders (Bleaching)
(See also Chloride of Lime)
American Chemical Co., Cincinnati, Ohio
Arnold, Hoffman & Co., Providence, R. I.
Castner Electrolytic Alkali Co. (High Test), Niagara Falls, N. Y.
Clark, Fred G., Co., Cleveland, Ohio
Ferguson Bros., 109 Chestnut, Phila., Pa.
Fuerst Bros. & Co., 2 Stone, New York
General Chemical Co., 25 Broad, New York
Grasseli Chemical Co., Cleveland, Ohio
Hill's, Edw. Sons & Co., 71 Pine, New York
Hollingsworth & Peterson, Phila., Pa.
Hooker Electrochemical Co., 40 Wall, New York
Innis, Speiden & Co., 46 Cliff, New York
Klopstein, A. & Co., 82 Beaver, New York
Klipstein, A., & Co., 122 Pearl, New York
Linder & Meyer, Boston, Mass.
Merrimac Chemical Co., Boston, Mass.
National Aniline & Chemical Co., 100 William, New York
Niagara Alkali Co., Niagara Falls, N. Y.
Pennsylvania Salt Mfg. Co., Phila., Pa.
Riker, J. L. & D. S., 46 Cedar, New York.
Roessler & Hasslacher Chemical Co., 100 William, New York
Sholes, Chas. E. Co., 164 Front, New York
Tennant, C. Sons & Co., 76 William, New York
Wing & Evans, 22 William, New York

## 8815—Powders (Carbonating)
American Chemical Co., Cincinnati, O.
Church & Dwight Co. ("Zenith" Anti-Sap Stain), 63 Wall, New York

## 8816— Powders (Insect)
Aphine Mfg. Co. ("Aphine" Insecticide), Madison, N. J.

## 8817— Powders (Soap)
Vera Chemical Co., North Milwaukee, Wis.

## 8818—Powders (Dog, Sheep, Etc.)
McDermaid, J., Rockford, Ill.
Vermont Farm Machine Co., Bellows Falls, Vt.

## 8819—Prairie Hay for Packing, Etc.
Wolfe, Thos. J. Jr., Walkerton, Ind.

## 8820—Press Attachment for Preventing Accidents
Geuder, Paeschke & Frey Co. ("Cream City" Accident Preventor, Automatic), Milwaukee, Wis.

## 8821— Press-Board
Case, A. Willard & Co. (Imitation), Manchester, Conn.
Case Bros. (Inc.), Highland Park, Conn.
Case-Risley Press Paper Co., Oneco, Conn.
Crehore, Chas. F. & Son, Boston, Mass.
Elkhart Bristol Board & Paper Co., Elkhart, Ind.
Merwin Paper Co., Rainbow, Conn.
New York & Penna Co., 200 5th av, New York
Newington Paper Co., Newington, Conn.
Rogers Paper Co., South Manchester, Conn.

## 8822—Press Roll Drives (Cylinder & Primary)
Moore & White Co. ("Franklin"), Phila., Pa.

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## 8823—Pressed Steel Specialties

(See also Steel, Pressed)

**ARROW CAN CO., Warren &** Church, New York. (See adv. index, end of book)
Federal Pressed Steel Co., Milwaukee, Wis.
Gem Mfg. Co., Spruce nr 33d, Pittsburg, Pa.
**GLOBE MACHINE & STAMPING CO.,** 3668 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hydraulic Pressed Steel Co., Cleveland, O.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Michigan Pressed Steel Co., Detroit, Mich.
**PARKER, JOHN L. CO., Worcester,** Mass. (See adv. index, end of book)
**PRESSED STEEL TANK CO., Mil-**waukee, Wis. (See adv. index, end of book)
Standard Pressed Steel Co., 20th & Clearfield, Phila., Pa.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 8824— Pressers (Cork)

Phoenix Hardware Mfg. Co., Homer, N. Y.

## 8825— Presses (Arbor)

**Barnes, W. F. & Jno. Co., Rockford, Ill.**
Bartlett, E. E. ("Greenerd"). 326 A, Boston, Mass.
Geier, P. A. Co., Cleveland, O.
Johnson, Israel H., Jr., Co., Phila., Pa.
King Machine Tool Co., Cincinnati, O.
Lucas Machine Tool Co. (Power), Cleveland, O.
**Niles-Bement-Pond Co., 111 B'way, New York**
**WILMARTH & MORMAN CO., 385** Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 8826—Presses (Armature & Field Coil Segments)

Alliance Machine Co., Alliance, O.
**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.

## 8826a—Presses (Auger & Bit Heading)

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)

## 8827—Presses (Automatic, Disc Notching)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

## 8828—Presses (Automatic, Gang)

**BLISS, E. W. CO., 19 Adams, Brooklyn.** N. Y. (See adv. index & branch offices, end of book)

## 8829—Presses (Automatic, Saw Tooth Notching)

**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)

## 8830—Presses (Baling, Broom Corn)

Colton, G D. & Co. ("Acme"), Galesburg, Ill.

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## 8831—Presses (Baling Metal Scrap)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Logemann Bros. Co. (Hand & Power), Milwaukee, Wis.

## 8832—Presses (Baling & Hay)

(See also Presses, Cotton)

**Admiral Hay Press Co., Kansas City, Mo.**
**Alamo Iron Works (Hay), San Antonio, Tex.**
Anderson Comp. (Hay, etc.), St. Paul, Minn.
**Ann Arbor Machine Co. ("Columbia" Hay),** Ann Arbor, Mich.
**Auto Fedan Hay Press Co. (Auto Self Feed** Hay Press), Kansas City, Mo.
**BECK, CHAS. CO. (Paper Baling),** 607 Chestnut, Phila., Pa. (See adv. index, end of book)
Beery Mfg. Co. (Hay), Upper Sandusky, O.
**Benicia Iron Works (Hay), Benicia, Cal.**
**BOOMER & BOSCHERT PRESS CO.,** (Baling Only), 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Bullard, Walter (Hay), Chico, Cal.
Cardwell Machine Co. (Hydraulic Baling), Richmond, Va.
Castree & Shaw Co. (Hay), Owosso, Mich.
**Chattanooga Implement & Mfg. Co. (Hay),** East Chattanooga, Tenn.
Collins, F. F. Mfg. Co. (Hay), San Antonio, Tex.
Collins Plow Co. (Hay, "Eli," "Noxall"), Quincy, Ill.
Copeland, Henry (Hay), Chattanooga, Tenn.
Dain Mfg. Co. (Hay), Ottumwa, Iowa
Dedericks, P. K. Sons (Hay), Albany, N. Y.
**Dennis, John Machine Co., Lowell, Mass.**
Eagle Mfg. Co. (Hay, etc.), Muskogee, Okla.
**ELMES, CHAS. F. ENGINEERING** Works (Baling Only, for Paper, Rags & Waste), cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Ertel, Geo. Co. (Hay), Quincy, Ill.
Famous Mfg. Co ("Champion," Good as Gold for Hay, Cardboard & Metal Scrap), East Chicago, Ind.
Farrar Lumber Co. (Hay), Dalton, Ga.
**Geiser Mfg. Co. (Hay), Waynesboro, Pa.**
Hampton, Thos. F. (Hay), Honeybrook, Pa.
Hasard, Wm. (Hay), Trumansburg, N. Y.
Hendricks Hay Press Co. (Hay, etc.), Kingston, N. Y.
Hercules Lever Jack Co., Irvington, N. J.
Hobbs Mfg. Co. (Waste Baling), Worcester, Mass.
Hyde, C. J. (Hay), Meridian, Miss.
Hydraulic Press Mfg. Co., Mount Gilead, O.
**INTERNATIONAL HARVESTER CO.** of America ("I-H-C" One & Two Horse Hay), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Jackson Hay Press & Mfg. Co. (Hay), Denver, Colo.
Kansas City Hay Press Co. (Hay, etc.), Kansas City, Mo.
Kemp's Mfg. Co. (Hay), Kankakee, Ill.
Kinnard-Haines Press Co. (Hay), Minneapolis, Minn.
Kline, Lewis T., Alpena, Mich.
Little Giant Hay Press Co. ("Success"), Alma, Mich.
Logemann Bros. Co. (Hydraulic & Waste Paper Baling), Milwaukee, Wis.
Lombard Iron Wks. & Supply Co., Augusta, Ga.
Lowell Machine Shop (Cotton), Lowell, Mass.
Luebben Baler Co. (Rotary), Beatrice, Neb.
Maurer, F. X. Co. (Hay), Spencer, Iowa
Mead Hay Press Co. (Hay), Pueblo, Colo.
Miller, Wm. P. Co. (Also Rags, Cotton, etc.), 35 River, Chicago, Ill.
Minnich Machine Works (For All Kinds of Products), Landisville, Lancaster Co., Pa.
Morehouse, L. C. (Hay), San Leandro, Cal.
Nancy Hanks Hay Press & Foundry Co. (Hay), Dalton, Ga.
New Winona Mfg. Co. ("Hay King," Portable), Winona, Minn.
Ohio Mfg. Co., Upper Sandusky, O.
Paris Foundry & Machine Co. (Hand Power, for Rags, Waste, etc.), Paris, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Porter, J. E. Co. (Hay), Ottawa, Ill.
Robinson & Co. (Automatic Hay), Richmond, Ind.
Sandwich Mfg. Co. (Hay), Sandwich, Ill.
Sinclair-Scott Co. ("Baltimore"), Baltimore, Md.
Smith, Phillip Co. (Paper Balers), Sidney, O.
Kansas City ,Kans.
Smith & Sons Mfg. Co. (Hay), Kansas City, Mo.
Spencer, J. A. (Hay, "Favorite Alligator," "Hercules," "Perpetual"), Dwight, Ill.
Strait, H. N. Mfg. Co. ("National," Hay), Kansas City, Kans.
**SULLIVAN MACHINERY CO. ("Sul-**livan" Hand Power), Peoples Gas bldg. Chicago, Ill. (See adv. index & branch offices, end of book)
Thomas-Albright Co. (Hydraulic, for Paper Stock, Yarns, Rags, Hair, Waste, etc.), Goshen, Ind.
**Waterville Foundry & Mfg. Co., Waterville,** N. Y.
Watkins Hay Press Co., East Point, Ga.
**WATSON-STILLMAN CO. (Hydraulic Bal-**ing), 38 Church, New York. (See adv. index, end of book)
Williams Buggy Co. (Hay), Macon, Ga.
**Whitehurst, R. W. Co. (Hay), Norfolk, Va.**
**Woodruff Hardware & Mfg. Co. ("Woodruff"** Hay), Winder, Ga.
**Whitman Agricultural Co. (Steam, Hand Power** Hay), 6900 S B'way, St. Louis, Mo.
Ypsilanti Hay Press Co. (Hay), Ypsilanti, Mich.

## 8833— Presses (Beet Pulp)

Jackson - Church - Wilcox Co. ("Selwig & Lange"), Saginaw, Mich.

## 8834—Presses (Beet Testing)

**MacKINNON BOILER & MACHINE** Co. (Hydraulic & Hand Power), Bay City, Mich. (See adv. index, end of book)

## 8835— Presses (Belting)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

## 8836— Presses (Bench)

(See also Presses, Power)

Baird Machine Co., Oakville, Conn.
**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)
Ferracute Machine Co., Bridgeton, N. J.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**Manville, E. J. Machine Co., Waterbury, Conn.**
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co. Warren, Mass.
Springfield Machine Tool Co., Springfield, O.
Swaine, F. J. Mfg. Co., St. Louis, Mo.

## 8837— Presses (Bending)

Alliance Machine Co., Alliance, O.
Bethlehem Steel Co. (Hydraulic), South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 8838—Presses (Bicycle Chain)

(See Presses, Power)

## 8839—Presses (Bicycle Saddle)

Burroughs, Chas. Co., 141 Commerce, Newark, N. J.

## 8840—Presses (Binders' Board)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8840a—Presses (Blanking)

(See Presses, Power)

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## 8841—Presses (Bliss Inclinable)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 8842—Presses (Book Binders')

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8843— Presses (Box)

Chase Turbine Mfg. Co. (Automatic), Orange, Mass.
Fischer Machine Works (Clamp Press), 1845 Carroll av, Chicago, Ill.

## Presses (Brick)

(See Machines, Brick Press)

## 8844— Presses (Broaching)

**AMERICAN CAN CO. (Machinery** Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Logemann Bros. Co. (Hydraulic), Milwaukee, Wis.
Perkins Machine Co., Warren, Mass.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 8845— Presses (Bumping)

Swaine, F. J. Mfg. Co., St. Louis, Mo.
West Mfg. Co., 374 7th, Buffalo, N. Y.

## 8846— Presses (Cabbaging)

Famous Mfg. Co. (For Pressing Scrap Brass, etc.), E. Chicago, Ind.
Farrel Foundry & Machine Co., Ansonia, Conn.
Logemann Bros. Co. (For Baling Metal, etc.), Milwaukee, Wis.

## 8847—Presses (Cam Drawing)

(See also Presses, Drawing; also Presses, Power)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Standard Machinery Co., Providence, R. I.

## 8848— Presses (Car Wheel)

(See also Presses, Hydrostatic Wheel)

Bethlehem Steel Co., South Bethlehem, Pa.
Chambersburg Engineering Co., Chambersburg, Pa.
**DUDGEON, RICHARD, 24 Columbia, New** York. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works (Paper, Rags & Waste), cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book)
Hydro Press Co. (Hydraulic), Rochester, N. Y.
Logemann Bros. Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## Presses (Card Cutting)

(See Card Cutting Machines)

## 8849—Presses (Card Printing)

Automatic Printing Press Co. (Automatic Self-Feeding), 167 Dearborn, Chicago, Ill.
**BUFFUM TOOL CO. (Automatic),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Grammes, L. F. & Sons, Allentown, Pa.

## 8850— Presses (Cheese)

Burrell, D. H. & Co. ("Sprague" Adjustable Continuous Pressure Gang & "Fraser" Gang Presses & Hoops), Little Falls, N. Y.
Creamery Package Mfg. Co., 61 W Kinzie, Chicago, Ill.
Dairy Specialty Co., West Chester, Pa.
Dean Mfg. Co., Seymour, Wis.
Gowanda Agricult'l Works Co., Gowanda, N. Y.
Jones, Frank L. (Gang), Utica, N. Y.
Moseley & Stoddard Mfg. Co., Rutland, Vt.
Reid, A. H. Creamery & Dairy Supply Co., Philadelphia, Pa.
Sharples Separator Co. (Gang, "Helmer," "Jespersen" & "Fraser" Patents, etc.), West Chester, Pa.
Vermont Farm Machinery Co., Bellows Falls, Vt.

## 8851—Presses (Chemists' Laboratory)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## Presses (Cider)

(See Presses, Wine & Cider)

## 8852—Presses (Cigar Packers')

National Selling Co., Allentown, Pa.

## Presses (Cloth Cutting)

(See Cloth Cutting Machines in Textile Machinery & Supplies)

## 8853— Presses (Coil)

Oliver Elec. & Mfg. Co. ("Precision"), St. Louis, Mo.
Smith & Wallace ("Clarke"), Woburn, Mass.

## Presses (Coining)

(See Coining Machines)

## 8854— Presses (Collet)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 8855—Presses (Compo Molding)

Andrew, M. L. & Co., Cincinnati, O.

## Presses (Concrete)

(See Concrete Building Block Machinery)

## 8856—Presses (Continuous)

Anderson, V. D. Co. (Expellers for Oil or Moisture), Cleveland, O.

## 8857—Presses (Continuous Abattoir)

**KUTZTOWN FOUNDRY & MACHINE CO.** ("Edgerton"), 116 N Broad, Phila., Pa. (See adv. index & branch offices, end of book)

## 8858— Presses (Copying)

Bailey Mfg. Co., 162 Leonard, New York
Chicago Scale Co., 296 W Jackson boul, Chicago, Ill.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hill, B. B. Mfg. Co., 1020 New Market, Phila.,
Hoe, R. & Co., 504 Grand, New York Pa.
Howe Scale Co., Rutland, Vt.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Phila. Novelty Mfg. Co., N 13th & Noble, Phila., Pa.
Pridmore, Henry E. (Automatic), 1901 S Rockwell, Chicago, Ill.
Quick Easy Copying Press Co., Marion, Ind.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Roneo Co. ("Roneo" Rotary Automatic Copying & Cutting), 371 B'way, New York
Shriver, T. & Co., Harrison, N. J.
Southern Skein & Foundry Co., Chattanooga, Tenn.
Tatum, Samuel C. Co., Cincinnati, O.

## 8859— Presses (Cork)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8860— Presses (Cotton)

Adams, W. T. Machine Co., Corinth, Miss.
Attalla Foundry & Machine Co., Attalla, Ala.
Bushnell, Geo. H. Press Co., Thompsonville, Conn.
Cardwell Machine Co., Richmond, Va.
Chickasaw Iron Works, Memphis, Tenn.
Coldwell-Wilcox Co., Newburgh, N. Y.
Cole, R. D. Mfg. Co., Newnan, Ga.
Continental Gin Co., Bridgewater, Mass., & Birmingham, Ala.
Copeland, Henry, Chattanooga, Tenn.
Dederick's, P. K. Sons, Albany, N. Y.
Ertel, George Co., Quincy, Ill.
Famous Mfg. Co., East Chicago, Ind.
Georgia Agricultural Works, Fort Valley, Ga.
Gullet's Gin Co., Amite, La., & 606 Common, New Orleans, La.
Hyde, C. J., Meridian, Miss.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Janney & Co., Montgomery, Ala.
Liddell Co. (Inc.), Charlotte, N. C.
Livermore Foundry & Machine Co., Memphis, Tenn.
Lombard Iron Wks. & Supply Co., Augusta, Ga.
Lummus, F. H. Sons Co., Columbus, Ga.
Maurer, F. & Co., Spencer, Ia.
Means, J. L. Machinery Co., Shreveport, La.
Mecklenburg Iron Works, Charlotte, N. C.
Miller, O. H., Fort Valley, Ga.
Murray Ginning System Co., Dallas, Tex.
Reading Iron Co., Reading, Pa.
Renneburg, E. & Sons Co., Baltimore, Md.
Schofield, J. S. Sons Co., Macon, Ga.
Sinclair-Scott Co., Baltimore, Md.
Stedman Foundry & Mach. Wks., Aurora, Ind.
Southern Engine & Boiler Wks., Jackson, Tenn.
Southern Standard Press Co., Meridian, Miss.
Thomas-Fordyce Mfg. Co., Little Rock, Ark.
Valk & Murdoch Iron Works, Charlotte, S. C.
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
West Point Iron Works, West Point, Ga.
Whitehurst, R. W. Co., Norfolk, Va.
Wing-Sayle Foundry & Machine Co., Little Rock, Ark.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 8861—Presses (Cotton Seed Hull)

Cardwell Machine Co., Richmond, Va.
Copeland, Henry, Chattanooga, Tenn.
Dederick's, P. K. Sons, Albany, N. Y.
Famous Mfg. Co., East Chicago, Ind.
Gullet's Magnolia Gin Agency, 606 Common, New Orleans, La., & Amite City, La.
Kingsland Mfg. Co., St. Louis, Mo.
Liddell Co., Charlotte, N. C.
Murray Ginning Process Co., Dallas, Tex.
Southern Standard Press Co., Meridian, Miss.
Valk & Murdoch Iron Works, Charleston, Whitehurst, R. W. Co., Norfolk, Va. S. C.
Whitman Agricultural Co., St. Louis, Mo.

## 8862—Presses (Cotton Seed Oil)

Buckeye Iron & Brass Works, Dayton, O.
Bushnell, G. H. Press Co., Thompsonville, Conn.
Callahan, W. P. Co. (Inc.) (Hydraulic), Dayton, O.
Codd, E. J. Co., Baltimore, Md.
French Oil Mill Machinery Co., Piqua, O.
Platt Iron Works Co., Dayton, O.
Shriver, T. & Co., Harrison, N. J.

## 8863— Presses (Crank Pin)

Alliance Machine Co., Alliance, O.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**DUDGEON, RICHARD, 24 Columbia, New** York. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Perkins Machine Co., Warren, Mass.
V. & O. Press Co. ("V. & O."), Glendale, L. I.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 8863a— Presses (Cutting)

(See Presses, Power)

## 8863b— Presses (Dial)

(See Presses, Power)

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## 8864– Presses (Dial, Feed)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
V. & O. Press Co. ("V. & O." Automatic), Glendale, L. I.

## 8865– Presses (Die)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Kidder, R. E., Worcester, Mass.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Seelye Mfg. Co., 118 South, Boston, Mass.
Seybold Machine Co., Dayton, O.
Sheridan, T. W. & C. B. Co. (Bookbinders), 56 Duane, New York
Slaysman & Co., Baltimore, Md.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Thomas-Albright Co. (Hydraulic), Goshen, Ind.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

## 8866–Presses (Die Cutting)

Grammes, L. F. & Sons, Allentown, Pa.
Hinze, H., Tribune bldg, New York
Oswego Machine Works (Neil Gray, Jr., Prop.) ("Oswego" for Printers & Box Makers, etc.), Oswego, N. Y.
Slaysman & Co., Baltimore, Md.

## 8867–Presses (Disc Notching)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Ferracute Machine Co., Bridgeton, N. J.

## 8868– Presses (Drawing)

(See also Sheet Metal Workers' Machines & Tools)
Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
**AMERICAN CAN CO. (Machinery** Dept.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**ELMES, CHAS. F., Engineering** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Leffler, Charles & Co. (Sheet Metal, etc.), 63 Clymer, Brooklyn, N. Y.
Michigan Press Co., Ypsilanti, Mich.
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Richard Mfg. Co., Bloomsburg, Pa.
Slaysman & Co., Baltimore, Md.
Stoll, D. H. Co., Buffalo, N. Y.
Standard Machinery Co., Providence, R. I.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
V. & O. Press Co., Glendale, L. I., N. Y.
Walsh Press & Die Co. (For Drawn Shellac, etc.), 4709 W Kinzie, Chicago, Ill.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Woonsocket Machine & Press Co., Woonsocket, R. I.
Zeh & Hahnemann (Double Acting), Vanderpool & Av A, Newark, N. J.

## Presses (Drill)

(See Drill Presses)

## 8869– Presses (Drop)

(See also Hammers, Drop)
Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
American Tube & Stamping Co., Bridgeport, Conn.
Billings & Spencer Co., Hartford, Conn.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.** ("Universal" for Metal Ceilings), Canton, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.
Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Johnson, Israel H., Jr., Co., 337 N 15th, Phila., Pa.
Keene, Geo. C. & Co., Cincinnati, O.
Leffler, Chas. & Co. (Sheet Metal, Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
McWilliams, Thomas, Providence, R. I.
Miner & Peck Mfg. Co., New Haven, Conn.
**NIAGARA MACHINE & TOOL W'KS.** (Bench, Poppet, etc.), Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.
Perkins Machine Co., Warren, Mass.
Robinson, J. M. Mfg. Co., Cincinnati, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Swaine, Fred. J. Mfg. Co., St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
United Engineering & Foundry Co., Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Williams, White & Co., Moline, Ill.

## 8870– Presses (Embossing)

Adriance Machine Works (Sheet Metal, Leather, Paper, etc.), 254 Van Brunt, Brooklyn, N. Y.
**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel", Toggle & Four Post Toggle), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Carver, C. R. Co., 15th & Lehigh av, Phila., Pa
Currier, Cyrus & Sons, Newark, N. J.
Dewes, A. Co. ("Columbia"), 243 Centre, New York
**ELMES, CHAS. F. ENGINEERING** Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Ferracute Machine Co. (Sheet Metal), Bridgeton, N. J.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**GRAMMES, L. F. & SONS (Gold &** Wood), Allentown, Pa. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Hinze, H., Tribune bldg., New York
Hydraulic Press Mfg. Co., Mount Gilead, O.
Jones, W. E., 14 Water, Brooklyn, N. Y.
Logeman Bros. Co. (Hydraulic), Milwaukee, Wis.
Loy & Newrath, Newark, N. J.
Manville, E. J. Machine Co., Waterbury, Conn.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (Metal), 157 Oraton, Newark, N. J.
Perkins Machine Co., Warren, Mass.
Roovers Bros. (For Metal Name Plates, Pattern Letter Plates, Tags, Labels, etc.), 100 Schermerhorn, Brooklyn, N. Y.
Standard Machinery Co., Mystic, Conn.
Swaine, F. J. Mfg. Co. (Sheet Metal), St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
Traud, Alex. Co. (For Leather), Newark, N. J.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 8871–Presses (Engravers' Transfer).

Currier, Cyrus & Sons, Newark, N. J.

## 8871a–Presses (Excelsior Baling)

(See Presses, Baling & Hay)

## 8871b–Presses (Fertilizer)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8872– Pressee (Filter)

Albright-Nell Co., 4019 Wentworth av, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Blaisdell Co. ("Blaisdell" Slime Treatment), Los Angeles, Cal.
Blymyer Iron Works Co., Cincinnati, O.
Bonnot Company, Canton, O.
Bushnell, G. H. Press Co., Thompsonville, Conn.
Butters Patent Vacuum Filter Co. ("Butters" Vacuum Filter for Slime Treatment), San Francisco, Cal.
Carbondale Machine Co., Carbondale, Pa.
Currier, Cyrus & Sons, Newark, N. J.
Dyer Co., Cleveland, Ohio
Eastwood, Benj. Co., Paterson, N. J.
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Field Force Pump Co., Elmira, N. Y.
Erhart, Chris., 1237 W 6th, Cincinnati, O.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Kelly Filter Press Co. ("Kelly," for Treatment of Mill Slimes, Sugar Precipitates, etc.), Salt Lake City, Utah
Kilby Mfg. Co., Cleveland, O.
Logemann Bros. Co., Milwaukee, Wis.
Love Bros., Inc. (for Glucose), Aurora, Ill.
Louisville Drying Machinery Co., Louisville, Ky.
Merrill Metallurgical Co. (Slime), 143 2d, San Francisco, Cal.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Moore Filter Co. ("Moore," Slime Process), 170 B'way, New York
Moore, Sam'l L. & Sons Corp'n, Elizabeth, N. J.
Patterson Foundry & Machine Co., East Liverpool, O.
Payne & Joubert, New Orleans, La.
Perrin, Wm. R. & Co. (Mining Slime Treatment, etc.), 46th & Loomis, Chicago, Ill.
Platt Iron Works Co. (For Chemicals, Oils, Sugar, Starch, Varnish, etc.), Dayton, O.
Pratt Engineering & Machine Co., Atlanta, Ga.
Pusey & Jones Co., Wilmington, Del.
Redfield, Robt. S. & Co. (For Chemicals, Starch, Oils, Glucose, Sugar, Varnish, etc.), 90 West, New York. Works: Elizabeth, N. J.
Royal Machine Co., Newark, N. J.
Shriver, T. & Co., Harrison, N. J.
Simpson Foundry Co., 2 Rodney, Brooklyn,
Sperry, D. R. & Co., Batavia, Ill. N. Y.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Sweetland Filter Press Co. ("Sweetland" Slime Treatment), Los Angeles, Cal.
Traud, Alex. Co., 5 Maine, Newark, N. J.
Vogt, Henry Machine Co., Louisville, Ky.
Whitney Iron Works Co., New Orleans, La.

## 8872a– Presses (Fish Oil)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8873– Presses (Flanging)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Chambersburg Engineering Co. (Sectional), Chambersburg, Pa.
**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

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Perkins Machine Co. (For Heavy Flanging), Warren, Mass.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
V. & O. Press Co. ("V. & O."), Glendale, L. I.
Wickes Bros., Saginaw, Mich.
Wood, Wm. H. (Sectional), Media, Pa.

## 8874— Presses (Foot)

**AMERICAN CAN CO. (Machinery** Dept.) (Pendulum, Floor or Bench), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Astoria Iron Works (Inc.) (Die Presses for Salmon Canneries, etc.), Astoria, Oreg.
Atlas Machine Co., Waterbury, Conn.
Ayars Machine Co. (For Can Making, etc.), Salem, N. J.
Baird Machine Co., Oakville, Conn.
Bender, Ph. J. & Sons, 87 Frankfort, New York
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Chapman, W. H. & Co. (Jewelers'), 229 Mulberry, Newark, N. J.
Clough, R. M., Tolland, Conn.
Cook, H. C. Co., Ansonia, Conn.
Cook, Thos. W. G., 4 Reade, New York
Dewes, A. Co., 243 Centre, New York
Draher, John, Waterbury, Conn.
Ferracute Machine Co., Bridgeton, N. J.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Johnson, Israel H., Jr., Co., Phila., Pa.
Jones, W. E., 14 Water, Brooklyn, N. Y.
La Salle Machine & Tool Co., La Salle, Ill.
Leffler, Chas. & Co. (Toggle Lever, Sheet Metal, etc.), 63 Clymer, Brooklyn, N. Y.
Loyd, John Co., 562 Water, New York
Manville E. J. Machine Co. (Single), Waterbury, Conn.
Michigan Press Co., Ypsilanti, Mich.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Partridge, Edw. O., 2047 Lake, Chicago, Ill.
Perkins Machine Co., Warren, Mass.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Royal Machine Co., Newark, N. J.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SHUSTER, F. B. CO. (Toggle, Double** & Pendulum Lever), New Haven, Conn. (See adv. index, end of book)
Simpson Foundry Co., 28 Rodney, Brooklyn, N. Y.
Slaysman & Co. (Can Makers', etc.), Baltimore, Md.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

Standard Machinery Co., Providence, R. I.
Stimpson, Edwin B. & Son (Runching & Perforating Leather, etc.), 31 Spruce, New York
Swaine, F. J. Mfg. Co., St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
V. & O. Press Co. "V. & O."), Glendale, L. I.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Zeh & Hahnemann, Newark, N. J.

## 8874a—Presses for Lining Service Pipe with Cement

**UNION WATER METER CO., Wor**cester, Mass. (See adv. index, end of book)

## 8875— Presses (Forging)

**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 8876— Presses (Forging)

(See Presses, Drop; Presses, Hydraulic; Presses, Power; Hammers, Drop; Forging Machines)

## 8877—Presses (Forging, Steam-Hydraulic)

Mesta Machine Co. ("Haniel & Lueg", Quick-Acting), Pittsburg, Pa.
United Foundry & Machine Co. ("Davy Bros.", High Speed), Pittsburg, Pa.

## 8878— Presses (Forming)

Alliance Machine Co., Alliance, O.
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**ELMES, CHARLES F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Logemann Bros. Co., Milwaukee, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Robinson, J. M. Mfg. Co. (Toggle), Cincinnati, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slaysman & Co., Baltimore, Md.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Mfg. Co., St. Louis, Mo.
Verdin, Kappes & Verdin, Cincinnati, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.
Zeh & Hahnemann, Newark, N. J.

## 8879—Presses (Four Plate Printing)

Gould & Eberhardt (For Bank Notes, Checks, Postage Stamps, etc.), Newark, N. J.

## 8880—Presses (Friction Clutch)

Baird Machine Co., Oakville, Conn.

## 8881—Presses (Friction, Dial Feed)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

## 8882— Presses (Fruit)

(See also Presses, Wine & Cider)
Andover Stamping Co. ("Henis"), Andover, N. Y.
Enterprise Mfg. Co. of Pa., W 3d & Dauphin, Phila., Pa.
Fanner Mfg. Co. ("Henis"), Cleveland, O.
Grab, Victor M. & Co. ("Yale", Household), Ashland blk, Chicago, Ill.
Hardware & Woodenware Mfg. Co. ("Brighton" for Family Use), 693 B'way, New York
Landers, Frary & Clark ("Universal"), New Brighton, Conn.
Northwestern Kitchenware Mfg. Co. ("Economy" Colander & Fruit Press), 120 N. 4th, Minneapolis, Minn.
Thurnauert, G. M. & Bro. (For Family Use), 83 Worth, New York
Pease Mfg. Co., Buffalo, N. Y.
Shriver, O. P. Co., Ann, Ohio
Silver & Co. ("Henis"), 304 Hewes, Brooklyn, N. Y.
Vogel, Wm. & Bro. ("Henis"), 37 S 9th, Brooklyn, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

## 8883—Presses (Gang Tool)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Perkins Machine Co., Warren, Mass.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 8884— Presses (Garbage)

Thomas-Albright Co. (Hydraulic), Goshen, Ind.

## 8885— Presses (Glass)

Sommerfeld Machine & Mfg. Co., 220 2d av, Pittsburg, Pa.

## 8886— Presses (Glue)

Advance Machinery Co., Toledo, O.
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)

## 8887—Presses (Gun Powder)

**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 8888— Presses (Hand)

**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Logemann Bros. Co. (Baling for Rags, Scrap, Waste Paper, etc.), Milwaukee, Wis.
Perkins Machine Co., Warren, Mass.
V. & O. Press Co. ("V. & O."), Glendale, L. I.

## 8889—Presses (Hand, for Rubber Mfrs.)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**THROPP'S, JOHN E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Williams Foundry & Machine Co., Akron, O.

## 8890—Presses (Harness & Saddlers')

Osborne, C. S. & Co., Harrison, N. J.

## Presses (Hay)

(See Presses, Baling & Hay)

## 8890a— Presses (Hop)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8891— Presses (Horizontal)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

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Perkins Machine Co., Warren, Mass.
Standard Machine Co., Providence, R. I.
Toledo Machine & Tool Co., Toledo, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 8892— Presses (Horn)

Stowell, J. A. Co., Leominster, Mass.

## 8893—Presses (Horning & Wiring)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
**AMERICAN CAN CO. (Machinery** Dept.) (For Can Makers, etc.), 135 Adams, Chicago, Ill. (See adv. index & branch offices; end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Ferracute Machine Co., Bridgeton, N. J.
Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio
Leffler, Chas. & Co., 61 Clymer, Brooklyn, N.Y.
**NIAGARA MACHINE & TOOL WORKS,** Buffalo, N. Y. (See adv. index, end of
Perkins Machine Co., Warren, Mass. book)
Slaysman & Co. (For Can Makers), Baltimore, Md.
Standard Machinery Co., Providence, R. I.
**Stoll, D. H. Co., Buffalo, N. Y.**
Swaine, F. J. Mfg. Co., St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
Wold. Torris & Co., 218 N Jefferson, Chicago,
Zeh & Hahnemann, Newark, N. J. Ill.

## 8894— Presses (Hydraulic)

Adamson Machine Co. (For Rubber Mfrs.), Akron, O.
Alliance Machine Co., Alliance, O.
Bethlehem Steel Co. (Of All Descriptions), South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. (To Specifications), Birdsboro, Pa.
Birmingham Iron Foundry, Derby, Conn.
**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Buckeye Iron & Brass Works (For Cottonseed & Linseed Oil, etc.), Dayton, O.
Bushnell, G. H. Press Co., Thompsonville, Conn.
Caldwell, E. R. & Co., Bradford, Pa.
Carbondale Machine Co., Carbondale, Pa.
Cardwell Machine Co., Richmond, Va.
Chambersburg Eng. Co., Chambersburg, Pa.
Clark, Edred W. (Rubber Mfrs. Presses a Specialty), Hartford, Conn.

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Cole, R. D. Mfg. Co., Newnan, Ga.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Currier, Cyrus & Sons, Newark, N. J.
Davis-Johnson Mfg. Co., 4518 Lexington, Chicago, Ill.
Defiance Machine Works (Hub & Flange), Defiance, O.
Dennis, John Machine Co. (For Hot Pressing), Lowell, Mass.
**DUDGEON, RICHARD, 24 Columbia, New** York. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Famous Mfg. Co., East Chicago, Ind.
French Oil Mill Machinery Co., Piqua, O.
**GARRISON, A. FOUNDRY CO. (For** Rolling Mills, etc.), 901 Bingham, Pittsburg, Pa. (See adv. index, end of book)
Holyoke Machine Co., Holyoke, Mass.
Howard Iron Works (For Leather & Book Binders), Buffalo, N. Y.
Hydraulic Engineering Works, 218 N Jefferson, Chicago, Ill.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Illinois Iron & Bolt Co. (For Wagon or Carriage Mfrs.), Carpentersville, Ill.
**Kilby Mfg. Co., Cleveland, O.**
Logemann Bros. Co., Milwaukee, Wis.
Lowell Machine Shop, Lowell, Mass.
McLaughlin, Geo. T. Co., Boston, Mass.
Mesta Machine Co., Pittsburg, Pa.
Monarch Machinery Co. ("Monarch"), 30 Church, New York
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Morgan Construction Co., Worcester, Mass.
**MORGAN ENGINEERING CO., Alliance,** Ohio. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
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Redfield, Robt. S. & Co., 90 West, New York; Works: Elizabeth, N. J.
Riehle Bros Testing Machine Co., 1424 N 9th, Phila., Pa.
Robertson, John & Co. (For Making Lead Pipe, Block Tin Pipe, Solder Wire, Trap & Bends, Lead Incasing Electric Conductors, Silversmiths & Jewelers' Use), 129 Water, Brooklyn, N. Y.
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**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
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Thomas-Albright Co. (For Tankage, Tallow, Leather, Cement, etc.), Goshen, Ind.
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Thropp, Wm. R. (Rubber Mfrs. Presses a Specialty), Trenton, N. J.
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United States Rapid-Fire Gun & Power Co. (For Heavy Forging, Drawing, Stamping, Rubber Presses, etc.), Derby, Conn.
Vulcan Iron Works (Portable, for Pressing on & off Cranks, Crank Pins, Car Wheels, etc.), 327 N Irving av, Chicago, Ill.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Westbrooks Elevator Co., Danville, Va.
Williams Foundry & Machine Co. (For Rubber Goods), Akron, O.
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Tod, Wm. Co., Youngstown, O.
United Engineering & Foundry Co. ("Davy Bros." Patent High-Speed Steam-Hydraulic for Forging, Shearing & Pressing), Pittsburg, Pa.
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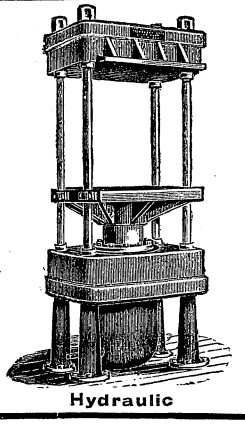
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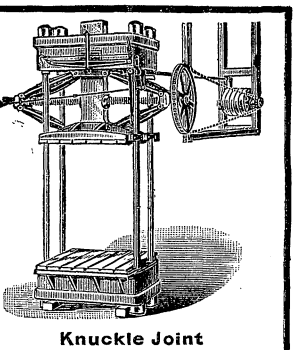
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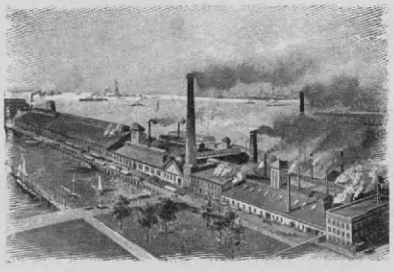
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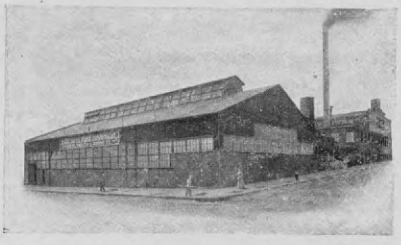
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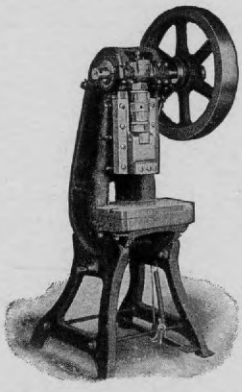


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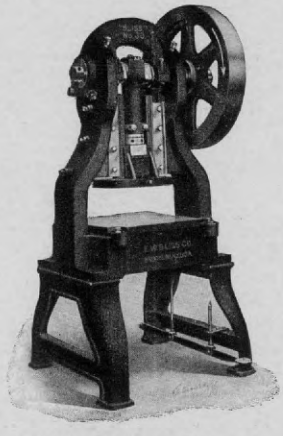
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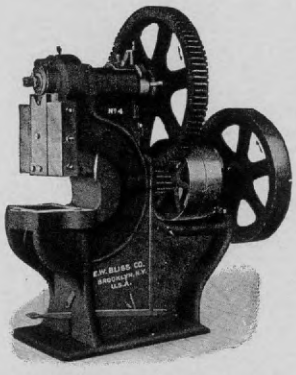
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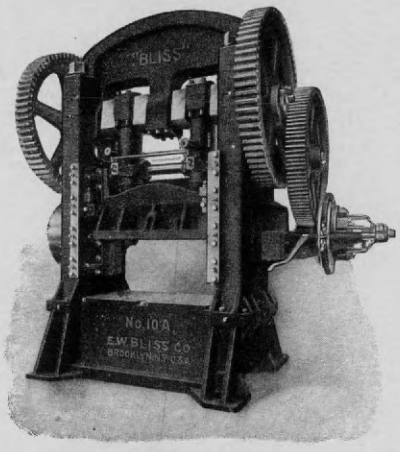
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Landers, Frary & Clark ("Universal"), New Britain, Conn.
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Cottrell, C. B. Sons Co., 41 Park row, New York
Fuchs & Lang Mfg. Co., 29 Warren, New York
Harris Automatic Press Co. (Rotary Off Set), Niles, O.
Hinze, H., Tribune bldg., New York.
Hoe, R., & Co., 504 Grand, New York
Howard Iron Works, Buffalo, N. Y.

## 8918—Presses (Lock Corner Die)

Nazel Engineering & Machine Works (For Paste Board Folding Box Machinery), 4041 N 5th, Phila., Pa.

## Presses (Mandrel)

(See Presses, Arbor)

## 8919—Presses (Meat Juice)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Erie Specialty Co., Erie, Pa.
Osborne, C. S. & Co. ("Osborne"), Harrison, N. J.

## 8920—Presses (Meter Sealing)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 8921— Presses (Mica)

**ELMES, CHAS. F. ENGINEERING** Works cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

## Presses (Molding)

(See Molding Machines, Foundry)

## 8922—Presses (Multiple Punching)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Michigan Press Co., Ypsilanti, Mich.

## 8923— Presses (Oleo)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8924— Presses (Olive Oil)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Hydraulic Press Mfg. Co. (Hydraulic), Mt. Gilead, O.

## 8925—Presses (Paper Box Cutting & Creasing)

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.

## 8926—Presses (Peanut Oil)

Buckeye Iron & Brass Works, Dayton, O.
Bushnell, G. H. Press Co., Thompsonville, Conn.

## 8927—Presses (Perforating)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Slaysman & Co., Baltimore, Md.
Stimpson, Edwin B. & Son, 31 Spruce, New York

## 8928—Presses (Pickeye Forging)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

## 8929—Presses (Pipe Straightening)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (For 6 to 12 inch Pipe), Farmers' Bank bldg, Pittsburg, Pa.

## 8930— Presses (Platen)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Hydrostatic Machinery Co., Rochester, N. Y.

## 8931—Presses (Pottery Printing)

Logan, Edw. Mach. Co. (Hand), Trenton, N. J.

## 8932— Presses (Power)

Adriance Machine Works (Sheet Metal, Wire, Paper, etc.), 254 Van Brunt, Brooklyn, New York
Alliance Machine Co. (Armature, Forging, Punching, etc.), Alliance, O.
**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel" Patterns for Can Makers, etc.), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
Ams, Max Machine Co. (For Can Makers), Mt. Vernon, N. Y.
Astoria Iron Works (Inc.) (Die Presses for Salmon Canneries, etc.), Astoria, Ore.
Atlas Machine Co., Waterbury, Conn.
Atlas Mfg. Co., Fostoria, O.
Automatic Machine Co., Bridgeport, Conn.
Ayars Machine Co. (For Can Making, etc.), Salem, N. J.
Baird Machine Co., Oakville, Conn.
Bender, Ph. J. & Sons, 87 Frankfort, New York
Bertsch & Co. (Geared Punch, etc.), Cambridge City, Ind.
Bethlehem Steel Co., South Bethlehem, Pa.
Birch & Birch (Blanking for Sheet Metal), Crawfordsville, Ind.
Blake & Johnson Co., Waterbury, Conn.
**BLISS, E. W. CO., 19 Adams, Brook-**lyn, N. Y. (See adv. index & branch offices, end of book)
Brown, F. S. & G. L. Machine Co., Baltimore, Md.
Bushnell, G. H. Brass Co., Thompsonville, Conn.
Cady Machine Co., Cleveland, O.
**CLEVELAND PUNCH & SHEAR WORKS** Co., 1306 E 40th, Cleveland, O. (See adv. index, end of book)
Cleveland Stamping & Tool Co., Cleveland, O.
Clough, R. M., Tolland, Conn.
Consolidated Press & Tool Co., Hastings, Mich.
Cook, Henry C. Co., Ansonia, Conn.
Cook, Thos. W. G., 4 Reade, New York
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Curtis & Marble Machine Co., Worcester, Mass.
Dewes, A. Co. (Steam), 243 Centre, New York
Draher, John, Waterbury, Conn.
Falstrom & Tornquist Co. (For Corrugating Sheet Metal), Passaic, N. J.
Ferracute Machine Co., Bridgeton, N. J.
Frankford Foundry & Machine Works (Forging & Punching), Frankford, Phila., Pa.
**GARRISON, A. FOUNDRY CO. (For** Rolling Mills, etc.), 901 Bingham, Pittsburg, Pa. (See adv. index, end of book)

PRESSES PUNCHES SHEARS
Medium and Heavy Duty
A. Garrison Foundry Co.
901 Bingham St. Pittsburgh, Pa.

Gohlke, Theo., 12th & Locust, St. Louis, Mo.
Griswold, Geo. M. Machine Co., New Haven, Conn.
Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

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Hickok, W. O. Mfg. Co. (Toggle), Harrisburg, Pa.
Humphrey Machine Co. (Also Hand), Keene, N. H.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Jones, W. E., 14 Water, Brooklyn, N. Y.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
La Salle Machine & Tool Co. (Single Acting Open Back), La Salle, Ill.
Leffler, Chas. & Co. (Sheet Metal Cans, Tinware, etc., in Ten Sizes), 63 Clymer, Brooklyn, N. Y.
Logemann Bros. Co. (Hand & Power), Milwaukee, Wis.
Long, Adam A., Rochester, N. Y.
**LONG & ALLSTATTER CO. (Belt,** Motor or Steam Driven), Hamilton, O. (See adv. index, end of book)
Loyd, John Co., 558 Water, New York
Lucas Machine Tool Co. ("Lucas" Power Forcing), Cleveland, O.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co. (Single & Double Acting), Waterbury, Conn.
Michigan Press Co. ("Michigan"), Ypsilanti, Mich.
Miner & Peck Mfg. Co., New Haven. Conn.
Mitchell, Jno. R. Co., Baltimore, Md.
**MORGAN ENGINEERING CO., Alliance O.** (See adv. index & branch offices, end of book)
National Roll & Foundry Co., Avonmore, Pa.
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Nilson, A. H. Machine Co., Bridgeport, Conn.
Ohl, Geo. A. & Co. (For Sheet Metal Workers), 157 Oraton, Newark, N. J.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Perkins Machine Co. (Punching, Forging, Dial, etc.), Warren, Mass.
Perrin, Wm. R. & Co., 46th & Loomis, Chicago, Ill.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Richard Mfg. Co., Bloomsburg, Pa.
Robinson, J. M. Mfg. Co., Cincinnati, O.
Rockford Iron Works ("Rockford," High Duty), Rockford, Ill.
Rowbottom Machine Co., Waterville, Conn.
**RYERSON, JOS. T. & Son, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sheridan, T. W. & C. B. Co. (Cutting), 56 Duane, New York
Simpson F'dry Co., 28 Rodney, Brooklyn, N. Y.
Slaysman & Co. (Can Makers, etc.), Baltimore, Md.
Springfield Machine Tool Co., Springfield, Ohio
Standard Machinery Co., Providence, R. I.
Simpson, Edwin B. Co. (Punching & Perforating), 31 Spruce, New York
Stoll, D. H. Co., Buffalo, N. Y.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
Swaine, Fred. J. Mfg. Co. (Punching), 7th & O'Fallon, St. Louis, Mo.
**TOLEDO MACHINE & TOOL CO.** (Double Geared), Toledo, O. (See adv. index, end of book)
Torrington Mfg. Co. (Single or Double Action Cam or Crank), Torrington, Conn.
United Engineering & F'dry Co., Pittsburg, Pa.
V. & O. Press Co., Glendale Sta., L. I., N. Y.
Verdin, Kappes & Verdin (Punching), Cincinnati, O.
Walsh Press & Die Co. (Double Crank, Dies & Inclinable Open Back), 4709 W Kinzie, Chicago, Ill.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wheeler, Frank & Son, Meriden, Conn.
**Wickes Bros., Saginaw, Mich.**
**Willard Machine & Tool Co., Cincinnati, O.**

## 8933—Presses (Printers' Proof)

Schniedewend, Paul & Co. ("Schniedewend"), 625 Jackson blvd. Chicago, Ill.
Zeh & Hahnemann (Inclinable, Straight Sided, etc.), Vanderpool & Avenue A, Newark, N. J.

## Presses (Printing)

(See Printing Presses & Machinery)

## 8934—Presses (Printing & Embossing)

American Multigraph Sales Co. ("Gammeter Multigraph" for Printing Office Forms, Fac-Simile Letters, etc.), Case av. & Kelly, Cleveland, O.
Boston Printing Press & Machinery Co. (Embossing & Halftone Work), 176 Federal, Boston, Mass.
Grammes, L. F. & Sons, Allentown, Pa.
National Machine Co. (Cutting & Breasting), Hartford, Conn.

## 8935—Presses (Punch, Saw Teeth Cutting)

United States Rapid-Fire Gun & Power Co., Derby, Conn.

## 8935a—Presses (Punching)

(See Presses, Power)

## 8936—Presses (Punching, Hand Power)

Oswego Tool Co., Oswego, N. Y.
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

## 8937—Presses (Rail Straightening)

Alliance Machine Co., Alliance, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

## 8938— Presses (Reducing)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Leffler, Chas. & Co., 49 Clymer, Brooklyn, N.Y.
Perkins Machine Co., Warren, Mass.
Standard Machinery Co., Providence, R. I.
V. & O. Press Co. ("V. & O."), Glendale, L. I.
Zeh & Hahnemann, Vanderpool & Av A, Newark, N. J.

## 8939— Presses (Riveting)

Alliance Machine Co., Alliance, O.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Ferracute Machine Co., Bridgeton, N. J.
Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
Williams, White & Co. (Horizontal), Moline, Ill.

## 8940— Presses (Roll Feed)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
V. & O. Press Co. ("V. & O."), Glendale, L. I.

## 8941— Presses (Rotary)

Pittsburg Machine Tool Co. ("Curtis"), Pittsburg, Pa.

## 8942—Presses (Scrap Metal)

(See also Presses, Baling, Metal Scrap)
Famous Mfg. Co. (Pressed into Cubes), East Chicago, Ind.

## 8943— Presses (Screw)

**AMERICAN CAN CO. (Machinery** Dept.) ("Rudolphi & Krummel" Hand & Power), 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)
American Process Co. (Automatic, Continuous), 62 William, New York
Atlas Machine Co., Waterbury, Conn.
Barnes, W. F. & John Co. ("Barnes" Adjustable for Machine Shops), Rockford, Ill.
Bates, Jas. Sons, Baltimore, Md.
Bender, Ph. J. & Sons, 87 Frankfort, New York
**BLISS, E. W. CO., 19 Adams, Brook**lyn, N. Y. (See adv. index & branch offices, end of book)
**BOOMER & BOSCHERT PRESS CO.** (Power), 379 Water, Syracuse, N. Y. (See adv. index, end of book)
Burroughs, Chas. Co., Newark, N. J.
Bushnell, G. H. Press Co., Thompsonville, Conn.
Consolidated Press & Tool Co., Hastings, Mich.
Cook, Thos. W. G., 4 Reade, New York
Crompton & Knowles Loom Works, Worcester, Mass.
Dennis, John Machine Co. (For Hot Pressing), Lowell, Mass.
**ELMES, CHAS. F. ENGINEERING** Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Johnson, Israel H., Jr., Co., 337 N 15th, Philadelphia, Pa.
Keene, Geo. C. & Co., Cincinnati, O.
Lowell Machine Shop (Double Screw), Lowell, Mass.
Loyd, Jno. Co., 558 Water, New York
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Perkins Machine Co. (Hand & Power), Warren, Mass.
Perrin, Wm. R. & Co. (For Abattoirs), 46th & Loomis, Chicago, Ill.
Philadelphia Drying Machinery Co. (Power), 6721 Germantown av, Phila., Pa.
**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index & branch offices, end of book)
Renneburg, E. & Sons Co. (Continuous), Baltimore, Md.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
Robinson, J. M. Mfg. Co., Cincinnati, O.
Sellers, Wm. & Co. (Inc.) (For Forcing Wheels, Pulleys, etc.), 1600 Hamilton, Phila., Pa.
Smith, Drum & Co. (Power), 2503 Coral, Phila., Pa.
Spence & Rideout, Nashua, N. H.
Standard Machinery Co., Providence, R. I.
Standish, Albert, 120 W Spring, Columbus, O.
Stimpson, Edwin B. Co., 31 Spruce, New York
Swaine, F. J. Mfg. Co. (Arch, etc.), St. Louis, Mo.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 8944— Presses (Seal)

Ashbury, Henry C., 16 Seneca, Buffalo, N. Y.
Crescent Seal & Stamp Co., Cambridge, O.
Handlan-Buck Mfg. Co. ("Handlan"), 212 N 3d, St. Louis, Mo.
**MORRILL, CHAS. ("Morrill"), 277 B'way,** New York. (See adv. index, end of book)
Murdock, James Jr. Co., Cincinnati, O.
**NIAGARA FALLS METAL STAMP**ing Works, Niagara Falls, N. Y. (See adv. index, end of book)
Parker, T. M., Hartford, Conn.
Schwerdtle Stamp Co., Bridgeport, Conn.
Smith, R. H. Mfg. Co., Springfield, Mass.
Stewart & Hollman, 201 B'way, New York
Utica Drop Forge & Tool Co., Utica, N. Y.

## Presses (Sewer Pipe)

(See Sewer Pipe Machinery)

## 8945—Presses (Shaft Straightening)

(See also Shaft Straightening Machines)
(Also Presses, Straightening)
Brightman Mfg. Co., Columbus, Ohio
Logemann Bros. Co. (Hydraulic), Milwaukee, Wis.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 8946— Presses (Shearing)

Alliance Machine Co., Alliance, O.
**BLISS, E. W. CO., 19 Adams, Brook**lyn, N. Y. (See adv. index & branch offices, end of book)

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Buffalo Forge Co., Buffalo, N. Y.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington**, Del. (See adv. index, end of book)
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.**, Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Whitcomb Mfg. Co., Worcester, Mass.
Williams, White & Co., Moline, Ill.

## 8947– Presses (Sheepskin)

**BOOMER & BOSCHERT PRESS CO.**, 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Thomas-Albright Co. (Hydraulic), Goshen, Ind.

## 8948–Presses (Sheet Metal Working)

(See also Sheet Metal Workers' Machines & Tools)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Consolidated Press & Tool Co., Hastings, Mich.
**ELMES, CHAS. F. ENGINEERING** Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**RYERSON, JOS. T. & Son, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slaysman & Co., Baltimore, Md.
Zeh & Hahnemann, Vanderpool & Av A, Newark, N. J.

## 8949– Presses (Shook)

Chase Turbine Mfg. Co. (Power Driven for Driving Together the Mortised Edges of Shooks on Boxes), Orange, Mass.

## 8950– Presses (Signature)

Sheridan, T. W. & C. B. Co., 56 Duane, New York

## 8951–Presses (Silver Refiners')

**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

## 8952– Presses (Skein)

Williams, White & Co., Moline, Ill.

## 8953–Presses (Soap Makers')

(See also Soap Makers' Machinery)

Hersey Mfg. Co., 314 W. 2d, Boston, Mass.
Houchin, Aiken Co., 37 53d, Brooklyn, N. Y.
Rutschman, Oscar F. (For Toilet Soap), 426 Berks, Phila., Pa.
Sowers Mfg. Co., Buffalo, N. Y.

## 8954– Presses (Solder)

**ELMES, CHAS. F. ENGINEERING** Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

## Presses (Sprue)

(See Cutters, Sprue, Foot & Power)

## 8955–Presses (Stagger Feed)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 8956– Presses (Stamping)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Baird Machine Co., Oakville, Conn.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Carver, C. R. Co., 15th & Lehigh av, Phila., Pa.
Ferracute Machine Co. (Sheet Metal), Bridgeton, N. J.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Hinze, H. (Book, Postal Card, etc.), Tribune bldg., New York
Logemann Bros. Co., Milwaukee, Wis.
Slaysman & Co., Baltimore, Md.
Swaine, F. J. Mfg. Co. (Sheet Metal), St. Louis, Mo.
Stoll, D. H. Co., Buffalo, N. Y.
**TOLEDO MACHINE & TOOL CO.** (Sheet Metal), Toledo, O. (See adv. index, end of book)
Verdin, Kappes & Verdin, Cincinnati, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Zeh & Hahnemann, Vanderpool & Ave A, Newark, N. J.

## 8957– Presses (Starch)

**BOOMER & BOSCHERT PRESS CO.**, 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Thomas-Albright Co. (Hydraulic, for Lump Starch), Goshen, Ind.

## 8958–Presses (Stationers' Stamping

Mead, A. G. ("Mead" for Fine Illuminated Stamping), 364 Atlantic av, Boston, Mass.

## 8959–Presses (Stearic Acid)

**BOOMER & BOSCHERT PRESS CO.**, 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

## 8960– Presses (Stearine)

**BOOMER & BOSCHERT PRESS CO.**, 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Platt Iron Works Co. (Hydraulic), Dayton, O.

## 8961–Presses (Stiles Punching)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 8962–Presses (Straightening)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Geier, P. A. Co. ("Geier" Bench Straightening Press & Centers), Cleveland, O.
**MORSE TWIST DRILL & MACHINE CO.** (For Round or Flat Stock), New Bedford, Mass. (See adv. index, end of book)

## Presses (Sugar Filtering)

(See Filters, Mechanical, in Sugar Machinery)

## 8963–Presses (Ticket Printing)

Kidder Press Co., Dover, N. H.
Wrigley, Thos. Co ("Wrigley" Patent Local), 88 Michigan av, Chicago, Ill.

## 8964– Presses (Tincture)

**BOOMER & BOSCHERT PRESS CO.**, 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

## Presses (Tire Welding)

(See Tire Welding Machines)

## 8965–Presses (Tissue Paper Printing)

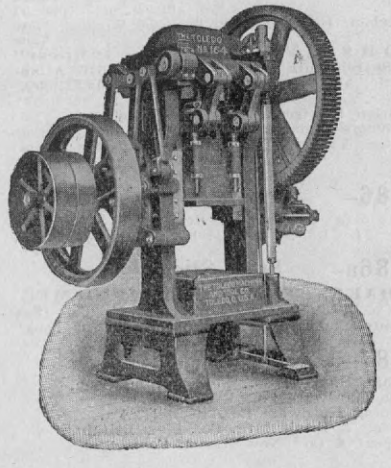
Kidder Press Co., Dover, N. H.

## 8966– Presses (Tobacco)

Adams Tobacco Press Co., Quincy, Ill.
Ball, Mitchell & Co., Maysville, Ky.
Cutaway Harrow Co., Higganum, Conn.
Danbery Foundry Co. ("Parker" Portable), Ripley, O.
Grote Mfg. Co., Evansville, Ind.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Lacy, Jas. J. Co. (Screw), Baltimore, Md.
Nagley Mfg. Co., Lyons, N. Y.
National Selling Co., Allentown, Pa.
Talbott & Sons, Richmond, Va.

## 8967– Presses (Toggle)

**BOOMER & BOSCHERT PRESS CO.**, 379 W Water, Syracuse, N. Y. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL W'KS.** (Toggle Draw), Buffalo, N. Y. (See adv. index, end of book)
**TOLEDO MACHINE & TOOL CO.**, Toledo, O. (See adv. index, end of book)

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## TOGGLE DRAWING and other POWER PRESSES

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## 8968—Presses (Toggle Drawing)

(See also Presses, Drawing; also Presses, Power)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

Logemann Bros. Co., Milwaukee, Wis.

## 8969— Presses (Treadle)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

Slaysman & Co. (Can Makers'), Baltimore, Md.

## 8970— Presses (Trimming)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

**AMERICAN CAN CO. (Machinery** Dept.) 135 Adams, Chicago, Ill. (See adv. index & branch offices, end of book)

Baird Machine Co., Oakville, Conn.

Billings & Spencer Co., Hartford, Conn.

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

Consolidated Press & Tool Co., Hastings, Mich.

Cook, Thos. W. G., 4 Reade, New York

**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

Heartley Machine, Variety Iron & Tool Works, Toledo, Ohio

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

**HILLES & JONES CO., East Wilmington,** Del. (See adv. index, end of book)

Jones, W. E., 14 Water, Brooklyn, N. Y.

Kling Bros., 1304 Hawthorne av, Chicago, Ill.

**MERRILL BROS., 5 William, Maspeth,** Boro. of Queens, New York. (See adv. index, end of book)

Miner & Peck Mfg. Co., New Haven, Conn.

**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Pawtucket Mfg. Co., Pawtucket, R. I.

Perkins Machine Co. (For Drop Forgings, etc.), Warren, Mass.

Stoll, D. H. Co., Buffalo, N. Y.

**TOLEDO MACHINE & TOOL CO.** (Power), Toledo, O. (See adv. index, end of book)

United Engineering & Foundry Co., Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co. (Punching & Trimming), Waterbury, Conn.

## 8971—Presses (Type Embossing)

Roovers Bros. ("Roovers," for Pattern Letter Plates, Tags, Labels, etc.), 100 Schermerhorn, Brooklyn, N. Y.

## 8972— Presses (Veneer)

Advance Machinery Co., Toledo, O.

American Woodworking Machinery Co., Rochester, N. Y.

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

Bushnell, G. H. Press Co., Thompsonville, Conn.

**ELMES, CHAS. F. ENGINEERING** Works, cor. Fulton & Sangamon, Chicago Ill. (See adv. index, end of book)

Fox Machine Co., Grand Rapids, Mich.

Francis, Chas. E. & Bro., Cincinnati, O.

**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)

Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.

Hydraulic Press Mfg. Co. (Hydraulic), Mount Kline, Lewis T., Alpena, Mich. Gilead, O.

Mechanics Machine Co. (Wrought Steel), Rockford, Ill.

Smith, H. B. Machine Co., Smithville, N. J.

Thomas-Albright Co. (Hydraulic), Goshen, Ind.

Towsley, John T. Mfg. Co., Cincinnati, O.

## 8973— Presses (Vulcanizing)

Bay State Machine Co., Erie, Pa.

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

Clark, Edred W. (Hydraulic), Hartford, Conn.

**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)

**ELMES, CHAS. F. ENGINEERING** Works (Hydraulic), cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Farrel Foundry & Machine Co., Ansonia, Conn.

Hydraulic Press Mfg. Co. (Hydraulic), Mount Gilead, O.

Monarch Machinery Co. (Hydraulic), 30 Church, New York

Perrin, Wm. R. & Co. (Hydraulic), 46th & Loomis, Chicago, Ill.

Thomas-Albright Co. (Hydraulic), Goshen, Ind.

**THROPP'S, JOHN E. SONS CO. (Hydraulic),** ft of Lewis, Trenton, N. J. (See adv. index, end of book)

Throop, Wm. R. Hydraulic), Trenton, N. J.

Logemann Bros. Co., Milwaukee, Wis.

## 8974—Presses (Waste Baling)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

Hazen Mfg. Co. ("Hudson"), Hudson, Mich.

Little Giant Hay Press Co. ("Security", For Waste Paper, etc.), Alma, Mich.

Logemann Bros. Co. ("Logemann", Hand & Power Stationery & Portable), Milwaukee, Wis.

Pierce, Adams True ("True"), Dover, N. H.

## 8975—Presses (Waste Oil)

**STRONG MACHINERY & SUPPLY** Co. ("Economy" & "Eclipse"), 48 Franklin, New York. (See adv. index, end of book)

## 8976—Presses (Watch & Clock Makers')

Blake & Johnson Co. (Arch or Pillar), Waterbury, Conn.

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

## Presses (Wheel)

(See Presses, Hydrostatic Wheel)

## 8977—Presses (Wine & Cider)

Ames Plow Co., Quincy Hall, Boston, Mass.

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

Comstock, Geo. S. ("Triumph"), Mechanicsburg, Pa.

Donaldson Bros., Mount Clemens, Mich.

Eagle Machine Co., Lancaster, O.

Emeny, G. J., Fulton, N. Y.

Enterprise Mfg. Co. (Fruit, Wine & Jelly), 3d & Dauphin, Phila., Pa.

Farquhar, A. B. Co., York, Pa.

Grab, V. M. & Co. ("Yale", Household), Ashland blk, Chicago, Ill.

Haish Mfg. Co., De Kalb, Ill.

Hench & Drumgold Co., York, Pa.

Hercules Lever Jack Co., Irvington, N. J.

Locking Valley Mfg. Co., Lancaster, O.

Hydraulic Press Mfg. Co. (Hydraulic, etc.), Mt. Gilead, O.

Kelso & Co., 559 W Quincy, Chicago, Ill.

Keystone Farm Machine Co., York, Pa.

Klotz Machine Co. ("Hero" Geared. Hand & Power), Sandusky, O.

Krogh Mfg. Co., San Francisco, Cal.

Lansing Wheelbarrow Co., Lansing, Mich.

Monarch Machinery Co., 30 Church, New York

Thomas-Albright Co. (Hydraulic), Goshen, Ind.

White, R. W. & Bro., Norfolk, Va.

Whitehurst, R. W. Co., Norfolk, Va.

Whitman Agricultural Co., St. Louis, Mo.

## Presses (Wiring)

(See Presses, Horning & Wiring)

## Presses (Wood Printing)

(See Box Board Printing Machines)

## 8978—Presses (Wood Pulp)

**BOOMER & BOSCHERT PRESS CO.,** 379 W Water, Syracuse, N. Y. (See adv. index, end of book)

Bushnell, G. H. Press Co., Thompsonville, Conn.

Scott, Olin, Bennington, Vt.

**Trevor Mfg. Co., Lockport, N. Y.**

## 8979— Preventers (Smoke)

(See also Furnaces, Smokeless)

Climax Smoke Preventer Co. ("Climax"), Equitable bldg, Boston, Mass.

Roche Engineering Co. ("Pennsylvania"), Weightman bldg, Phila., Pa.

Scharf, G. H. Co. ("Scharf" Automatic), Ypsilanti, Mich.

Wilkinson Foundry & Mfg. Co. ("Stroud" System), Bridgeport, Pa.

## 8980— Prime Movers

(See Dynamo & Motor Mfrs.. Engines, Various Kinds; Generators, Various Kinds; Motors, Various Kinds; Turbines, Various Kinds; Windmills)

## 8981— Printers (Railroad)

(See Railroad Stationery, Blanks, Manifests, etc.; also Loose Leaf Devices)

## 8982—Printers' Wood Furniture

Hamilton Mfg. Co., Two Rivers, Wis.

New England Wood Type Co., Brookline, N. H.

Tubbs Mfg. Co., Ludington, Mich.

## 8982a—Prin-to-Paque Tracing Inks

**SOLTMANN, E. G.**

(Inks, Black, White & Colors, All Colors Show in Blue Prints as Well as Black Lines), 125 E 42d, New York. (See adv. index, end of book)

## Prismatic Lights

(See Glass, Prismatic)

## 8983— Projectiles (Steel)

American & British Co., Providence, R. I., & Bridgeport, Conn.

Bethlehem Steel Co., South Bethlehem, Pa.

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

Firth-Sterling Steel Co., McKeesport, Pa.

Johnson, Isaac & Co., Spuyten Duyvil, New York City, N. Y.

Midvale Steel Co., Nicetown, Philadelphia, Pa.

**PRESSED STEEL TANK CO. (Seamless** Steel Shells), Milwaukee, Wis. (See adv. index, end of book)

Taylor Iron & Steel Co. (Armor Piercing), High Bridge, N. J.

## 8984— Projection Apparatus

Bausch & Lomb Optical Co., Rochester, N. Y.

## 8985—Projectors or Search Lights

Bausch & Lomb Optical Co., Rochester, N. Y.

Benton, Thos. P. & Son, La Crosse, Wis.

Bogue, Chas. J., Electric Co., 515 W 29th, New York

Carlisle & Finch Co., Cincinnati, O.

Electric Motor & Equipment Co., 13 Beaver, Newark, N. J.

Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

Menchen, Jos. Electrical Co., 360 W 50th, New York

**MORSE, FRANK W. ("Morse"** Searchlights for Motor Boats), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

O'Brien Electrophone Co., Hallowell, Me.

Rushmore Dynamo Works (Electric or Acetylene for Yachts, Locomotives & Automobiles), Plainfield, N. J.

## 8986— Prongs (Valve)

Hays Mfg. Co. (Brass), Erie, Pa.

Lord, L. L. Co. (Malleable Iron), Meadville, Pa.

## 8986a— Proof Sticks

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 8987— Props (Sash)

Corbin, P. & F. Co., New Britain, Conn.

Penn Hardware Co., Reading, Pa.

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn.

Sargent & Co., New Haven, Conn.

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## 8988—Protectors (Boiler Blow-Off)

Mather, Edmund, Harrisburg, Pa.

## 8989—Protectors (Boiler Tube)

Cruise & Co. ("Cruise"), Elizabeth, N. J.

## 8990—Protectors (Book Corner)

Modern Mfg. Co., 543 N Lawrence, Phila., Pa.

## 8991— Protectors (Electric)

American Electric Fuse Co. ("Rolfe"), Muskegon, Mich.
Central Tel. & Electric Co., St. Louis, Mo.
Cook, Frank B. ("Cook", Terminal), 900 W Lake, Chicago, Ill.
D. & W. Fuse Co., Providence, R. I.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Helios Mfg.. Co., Bridesburg, Phila., Pa.
Rolfe Electric Co., Rochester, N. Y.
Sterling Electric Co., Lafayette, Ind.
Trio Mfg. Co. ("Tornquist"), Rock Island, Ill.
United Indurated Fibre Co., Lockport, N. Y.

## 8992— Protectors (Hose)

Wood, Guilford (Air Brake Nipple-End "Wood"), Great Northern bldg, Chicago, Ill.

## 8993— Protectors (Pole)

Hubbard & Co. (Galvanized), Pittsburg, Pa.
Lanz, M. & Sons (Protection Strips), 101 S 29th, Pittsburg, Pa.

## 8994—Protectors (Rail Bond)

Chase-Shawmut Co., Newburyport, Mass.

## 8995—Protectors (Smoke)

Cover, H. S., 126 Perley, South Bend, Ind.
Hayward, S. F. & Co., 39 Park pl, New York
Vajen-Bader Co., Richmond, Ind.

## 8996—Protectors (Stand)

**ACME STEEL GOODS CO. ("Acme" for** Beer Kegs, etc.), Archer av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)

## 8996a—Protectors (Tire)

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 8997— Protractors

Besly, Chas. H. & Co. ("Universal" Bevel), 124 N Clinton, Chicago, Ill.
Crookston Tool Co., Crookston, Minn.
Brown & Sharpe Mfg. Co. (Draughtsmen's), Providence, R. I.
Kelsey, D. J., New Haven, Conn.
Massachusetts Tool Co., Greensfield, Mass.
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO. (Bevel Draughtsman, etc.),** Athol, Mass. (See adv. index & branch offices, end of book)

## Pruners (Tree)

(See Shears, Pruning)

## 8998—Publications (Trade)

Acetylene Journal, 324 Dearborn, Chicago, Ill.
Advertising & Selling Magazine, 71 W 23rd, New York
American Architect, 239 W. 39th, New York
American Artisan, 355 Dearborn, Chicago, Ill.
American Blacksmith, Prudential bldg, Buffalo, N. Y.
American Carpenter & Builder, 185 Jackson blvd, Chicago, Ill.
American Contractor, 40 Dearborn, Chicago, Ill.
American Cotton Manufacturer, Charlotte, N C
American Dairyman, 105 Hudson, New York
American Druggist & Pharmaceutical Record, 62 W B'way, New York
**AMERICAN EXPORTER, 135 William,** New York. (See adv. index, end of book)
American Fertilizer, 1010 Arch st, Phila., Pa.
American Gas Light Journal, 42 Pine, New York
American Machinist, 505 Pearl, New York
American Made Goods Export Co., 17 State, New York
American Manufacturer, Textile, Charlotte, N. C.
American Pressman, 208 Olive, St. Louis, Mo.
American Sportsman, 21 Warren, New York
American Stone Trade, 355 Dearborn, Chicago, Ill.
American Sugar Industry, 5 Wabash av, Chicago, Ill.
Architecture & Building, 23 Warren, New York
Architectural Record, 11 E. 24th, New York
Architecture, 225 5th av, New York
Automobile Directories Co., 1717 B'way, New York
Automobile Magazine, 114 Liberty, New York
Automobile, The, 239 W 39th, New York
Barbers' Journal, 1135 Broadway, New York
Barrel & Box, Louisville, Ky.
Blacksmith & Wheelwright, 27 Park Place, New York
Boiler Maker, 17 Battery Place, New York
Brewers' Journal, 1 Hudson, New York
Building Age, 239 W 39th, New York
Butchers' Advocate, 203 B'way, New York
Canadian Architect & Builder, Toronto, Montreal, Can
Canadian Manufacturer & Industrial World, Toronto, Montreal, Canada
**CASSIERS' MAGAZINE, 12 W 31st,** New York. (See adv. index, end of book)
Cement Age, 225 5th av., New York
Cement Era, 98 Jackson blvd, Chicago, Ill.
Cement World, 241 5th av., Chicago, Ill.
Cement & Engineering News, 22 5th av., Chicago, Ill.
Clay Record, 303 Dearborn, Chicago, Ill.
Clay Worker, Indianapolis, Ind.
Coal, Pittsburg, Pa.
Coal Trade Journal, 20 Vesey, New York
Cold Storage & Ice Trade Journal, 116 Nassau, New York
Commercial Record, 127 Federal, Boston, Mass.
Compressed Air Magazine, Easton, Pa.
Concrete, Detroit, Mich.
Concrete Age, Atlanta, Ga.
Concrete Engineering, Caxton bldg., Cleveland, Ohio
Confectioners' Gazette, 366 B'way, New York
Construction News Co., Monadnock blk., Chicago, Ill.
Contract News, 13 Park row, New York
Contractor, 98 Jackson boul, Chicago, Ill.
Cotton, Equitable bldg, Atlanta, Ga.
Creditors' Mercantile Guide, 621 B'way, New York
Cycle & Automobile Journal, 1213 Filbert, Phila., Pa.
**DOCKHAM'S TEXTILE DIRECTORY,** 6 Beacon, Boston, Mass. (See adv. index, end of book)
Domestic Engineering, 325 Dearborn, Chicago, Ill.
Dry Goods Economist, 239 W 39th, New York
El Comercio, 126 Liberty, New York
Electric Railway Journal, 239 W 39th, New York
Electrical Age, 45 W 42d, New York
Electrical Review, 15 Park Row, New York
Electrical World, 239 W 39th, New York
**ENGINEERING - CONTRACTING,** 537 Dearborn, Chicago, Ill. (See adv. index, end of book)
**ENGINEERING MAGAZINE, 140 Nassau,** New York. (See adv. index, end of book)
**ENGINEERING NEWS, 220 B'way,** New York. (See adv. index, end of book)
**ENGINEERING RECORD, 239 W. 39th,** New York. (See adv. index, end of book)
Engineering Review Co., 239 W 39th, New York
Engineering & Mining Journal, 505 Pearl, New York
Engineers' Review, Whitney bldg., Cleveland, Ohio
**EXPORTADOR AMERICANO, 135** William, New York. (See adv. index, end of book)
Exporters & Importers' Journal, 17 State, New York
Farm Implement News, Masonic Temple, Chicago, Ill.
Farm Machinery, 804 Pine, St. Louis, Mo.
Fire & Water Engineering, 136 W 22nd, New York
**FULLER PUBLISHING CO., Pacific** blk, Seattle, Wash. (See adv. index, end of book)
Furniture Industry, Evansville, Ind.
Hardware Dealers' Magazine, 253 B'way, New York
Harness, 24 Murray, New York
Heating & Ventilating Magazine, 1123 B'way, New York
House Furnishing Economist, 2 Hudson, New York
House Furnishing Review, 59 Park pl, New York
Hub, 24 Murray, New York
Illuminating Engineering Publishing Co. (Technical), 15 W 38th, New York
Improvement Bulletin, Lumber Exchange, Minneapolis, Minn.
India Rubber World, 395 B'way, New York
Insurance Engineering, 120 Liberty, New York
**INTERNATIONAL LIBRARY PUB-**lishing Co., 102 W 38th, New York. (See adv. index, end of book)
International Marine Engineering, Whitehall bldg, New York
International Typographical Journal, Indianapolis, Ind.
Iron Age, 239 W 39th, New York
Iron Age-Hardware, 239 W 39th, New York
Iron Trade Review, Browning bldg., Cleveland, Ohio
Jewelers' Circular, 11 John, New York.
Lumberman (St. Louis), Fullerton bldg, St. Louis, Mo.
Lumber World, 21 Quincy, Chicago, Ill.
Machinery, 49 Lafayette, New York
**MANUFACTURERS' LIST CO., 128** St. Peter, Witness bldg, Montreal, Que., Canada. (See adv. index, end of book)
**MANUFACTURERS' RECORD, Merchants'** Nat. Bank bldg, Baltimore, Md. (See adv. index, end of book)
Marine Engineering, 17 Battery pl, New York
Marine Review, Browning bldg, Cleveland, O.
Metal Worker, 239 W 39th, New York
Mines & Minerals, Scranton, Pa.
Mining & Scientific Press, San Francisco, Cal.
Modern Machinery, Security bldg, Chicago, Ill.
Monumental News, 324 Dearborn, Chicago, Ill.
Motor Age, 1200 Michigan av., Chicago, Ill.
Motor Boat, 1133 B'way, New York
Motor World, 154 Nassau, New York
Municipal Engineering, Indianapolis, Ind.
Municipal Journal & Engineer, 239 W. 39th, New York
**NATIONAL CONTRACTOR & BUILD-**er, 506 14th, N W, Washington, D. C. (See adv. index, end of book)
Oil, Paint & Drug Reporter, 100 William, New York
Packages, Montgomery bldg, Milwaukee, Wis.
Paper Box Maker, 154 Nassau, New York
Paper Mill, 154 Nassau, New York
Pharmaceutical Era, 90 William, New York
Plumbers' Trade Journal Pub. Co., 43 W 34th, New York
Popular Mechanics, Journal bldg, Chicago, Ill.
Power, 505 Pearl, New York
Power Boating, 90 West, New York
Practical Engineer, Phila. Bourse, Phila., Pa.
Progressive Age, 280 B'way, New York
Railway Age Gazette, 83 Fulton, New York
Railway Master Mechanic, Security bldg, Chicago, Ill.
Railway Review, Manhattan bldg, Chicago, Ill.
Railway World, Witherspoon bldg, Phila., Pa.
Real Estate Record, 46 N 11th, Phila., Pa.
Record & Guide, 11 E. 24th, New York
Rock Products, 355 Dearborn, Chicago, Ill.
Rudder Publishing Co., 9 Murray, New York
Shoe & Leather Reporter, 183 Essex, Boston, Mass.
Southern Machinery, Prudential bldg, Atlanta, Ga.
Starchroom Laundry Journal, Blymyer bldg, Cincinnati, O.
**"STONE," 258 Broadway, New York** (See adv. index, end of book)
Stove & Hardware Reporter, St. Louis, Mo.
System, 151 Wabash av, Chicago, Ill.
Textile Manufacturers Journal, 377 B'way, New York
Technical World Magazine, 58th & Drexel, Chicago, Ill.
Telephony, Monadnock blk., Chicago, Ill.
Textile World Record, 299 Devonshire, Boston, Mass.
Trade Mark Record, 40 Exchange pl., New York
Tradesman Publishing Co., Chattanooga, Tenn.
Transit, Iowa City, Ia.
Waste Trade Journal, The, 136 Liberty, New York
Western Architect & Builder, Commercial Tribune bldg, Cincinnati, O.
Western Contractor, Kansas City, Mo.

## 8999— Puller & Recorker

**ARCADE MFG. CO ("Phoenix",** "Clipper", "Handy" & "Arcade"), Freeport, Ill. (See adv. index, end of book)

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## 9000— Pullers (Beet)

Avery, B. F. & Sons ("Avery"), Louisville, Ky.
Brillion Iron Warks, Brillion, Wis.
Bucher & Gibbs Plow Co., Canton, O.
Deere & Co. ("Jno. Deere"), Moline, Ill.
Deere & Mansur Co. ("Deere"), Moline, Ill.
Donaldson Bros. ("Donaldson," "Valley"), Mt. Clemens, Mich.
Gale Mfg. Co. ("Gale"), Albion, Mich.
Kingman Plow Co., Peoria, Ill.
Lehr Agricultural Co. ("Lehr"), Fremont, O.
Moline Plow Co. ("Moline"), Moline, Ill.
Ohio Cultivator Co. ("Famous Ohio"), Bellevue, O.
Parlin & Orendorff Co. ("Canton"), Canton, Ill.
Rowell, I. B. Co., Menomonee Falls, Wis.
Toledo Plow Co., Toledo, O.

## 9001— Pullers (Car)

(See also Car Movers & Pushers)

Barnard & Leas Mfg. Co. ("Moline"), Moline, Ill.
Burrell Mfg. Co. (One-Shaft), Bradley, Ill.
**CALDWELL, H. W. & SON CO.** ("Caldwell" Standard & Self-Contained Safety), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
Dodge Mfg. Co. ("Safety"), Mishawaka, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.
**LESCHEN, A. & SONS ROPE CO., 930** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY ("Safety"),** Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co. (Power), Indianapolis, Ind.
Skillin & Richards Mfg. Co. (Improved), 46th av & Courtland, Chicago, Ill.
Stephens-Adamson Mfg. Co. ("S-A" Safety), Aurora, Ill.
**WEBSTER MFG. CO., 2410 W. 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 9002— Pullers (Cork)

(See also Cork Screws)

**ARCADE MFG. CO. ("Champion",** "Triumph" & "Standard," "Favorite," "Daisy"), Freeport, Ill. (See adv. index, end of book)
Erie Specialty Co. ("Walker's" Self-Pulling), Erie, Pa.
Hawley Mfg. Co. ("Quick-as-a-Wink"), Stepney, Conn.
National Selling Co., Allentown, Pa.

## 9003— Pullers (Cotter Pin)

Mossberg, Frank Co. (Puller & Spreader), Attleboro, Mass.

## 9004— Pullers (Nail)

(See also Pullers, Tack; also Pullers, Staple)

Atwater Mfg. Co. ("Star"), Plantsville, Conn.
Belden Machine Co. ("Diamond-A"), New Haven, Conn.
Bonner, C. E., Mfg. Co. ("Victor" Pry Bar, & Drop Forged), Champaign, Ill.
Bridgeport Hardware Mfg. Co. ("Tiger," "Sure Grip," "Jumbo," "Rex," "Matchless" Nail Puller, Box Opener & Hammer), Bridgeport, Conn.
Cedar Rapids Mfg. Co. ("Diamond", "Never Slip"), Cedar Rapids, Iowa
Chantrell Hardware & Tool Co., Reading, Pa.
Cronk & Carrier Mfg. Co. ("Never Slip"), Elmira, N. Y.
Denison Mfg. Co. ("Denison", "Big 4", "Chief"), Warren, O.
Dudley, A. Mfg. Co., Menominee, Mich.
Elmore Tool Mfg. Co. ("Star"), Hartford, Conn., & Wethersfield, Conn.
Grammes, L. F. & Sons ("Bull Dog"), Allentown, Pa.
Herculever Co. ("Herculever"), 395 B'way.
Hurst, H. L. Mfg. Co., Canton, O. New York
Kilborn & Bishop Co., New Haven, Conn.
Landers, Frary & Clark ("Universal"), New Britain, Conn.
Lowentraut, P. Mfg. Co. ("Montgomery"), Newark, N. J.
Mellor Box Opener Co. ("Mellor" Box Opener, Nail Puller & Hammer Combined), Sedalia, Mo.
Miller's Falls Co. ("Pelican," "Miller's Falls"), 28 Warren, New York. Works, Miller's Falls, Mass.
**MORRILL, CHAS. ("Morrill"), 277 B'way,** New York. (See adv. index, end of book)




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**CHAS MORRILL, 277 Broadway, N. Y.**

Page-Storms Drop Forge Co. ("Gem"), Chicopee, Mass.
Pelouze Scale & Mfg. Co. ("Champion"), 232 E Ohio, Chicago, Ill.
Rinn, Albert E. ("Samson"), Allentown, Pa.
S. & I. Co. ("Giant" Pattern, etc.), Springfield, Mass.
Sayre, L. A. Co., Newark, N. J.
Schatz Mfg. Co., Poughkeepsie, N. Y.
Scranton & Co., New Haven, Conn.
**SMITH & HEMENWAY CO. ("Giant"** & "Diamond B"), 150 Chambers, New York. (See adv. index, end of book)
Snow & Petrelli Mfg. Co., New Haven, Conn.
Tower & Lyon Co. ("The Cyclops"), 95 Chambers, New York
Universal Tool Co. ("Milla's"), Springfield, Mass.
Winkley Co. ("Star"), Detroit, Mich.

## 9005— Pullers (Onion)

Allen, S. L. & Co., Phila., Pa.
Bateman Mfg. Co., Grenloch, N. J.
Deere & Mansur Co., Moline, Ill.
Jelliff, C. O. Mfg. Corp., Southport, Conn.

## 9006— Pullers (Piling)

Curtis & Co. Mfg. Co., St. Louis, Mo.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 9007— Pullers (Pinion)

(For Pulling Pinions from Armatures)

American General Engineering Co. ("Challenge" Portable), 253 B'way, New York
Columbia Machine Works & Malleable Iron Co ("Columbia"), 269 Chestnut, Brooklyn, N. Y.

## 9008— Pullers (Plank)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich

## 9009— Pullers (Spike)

(See also Bars, Pinch)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Harvey, H. H., 608 Atlantic av, Boston, Mass
Justice, Philip S. & Co. ("Justice" Railroad), 421 Chestnut, Phila., Pa.
**MORRILL, CHAS. ("Pearson Cyclone"** & "Morrill"), 277 B'way, New York. (See adv. index, end of book)
Pearson, Jack Co. (The "Mogul"), 64 Federal, Boston, Mass.
Pittsburg Tool & Drop Forge Co. ("Cheswick" for Use Between Guard Rails, etc.), Cheswick, Pa.
Solid Steel Tool & Forge Co. (2 or 3 Ball), Brackenridge, Pa.

## 9010— Pullers (Staple)

Bridgeport Hardw. Mfg. Co., Bridgeport, Conn.
Cheney, Henry Hammer Co., Little Falls, N.Y.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Osmundson Spade Mfg. Co. ("Buffalo"), Perry, Ia.
Schriver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
Utica Drop Forge & Tool Co., Utica, N. Y.

## 9011— Pullers (Stump)

Amond, Godfrey, Cedar Springs, Mich.
Bennett, H. L. & Co. ("Bennett" Cable, "Bennett" Screw, "Bennett" Hand Power), Westerville, O.
Butterworth & Lowe (Inc.), Grand Rapids, Mich.
Caward, R. S. ("Faultless"), Cresco, Ia.
Challenge Co. ("Cyclone"), Batavia, Ill.
Chamberlin Mfg. Co. ("Chamberlin"), Olean, N. Y.
Eclipse Hay Press Co. ("Eclipse"), Kansas City, Mo.
Edwards, C. D. ("Climax," "Jumbo," "Chief"), Albert Lea, Minn.
Farquhar, A. B. Co. (Ltd.), ("Archimedean," Hand Power), York, Pa.
Hercules Mfg. Co. ("Hercules"), Centerville, Pa.
Kansas City Hay Press Co. ("Lightning"), Kansas City, Mo.
Milne Mfg. Co. ("Hawkeye," "I. & L.," "Iron Giant," "Milne"), Monmouth, Ill.
Mohland & Co. ("Corbett," "Little Giant," "Pioneer" & "Hawkeye" Grubbing Machines), Burlington, Ia.
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
St. Albans Foundry & Implement Co. ("St. Albans"), St. Albans, Vt.
Scott Hay Press Co. ("O-K"), Kansas City, Mo.
Smith, W. Grubber Co. ("Smith"), La Crosse, Wis.
Sparta Iron Wks. Co. ("Sparta"), Sparta, Wis.
Swenson Grubber Co. ("Swenson", Malleable Iron), Cresco, Ia.
Zimmerman Steel Co., Lone Tree, Ia.

## 9012— Pullers (Tack)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Bridgeport Hardware Mfg. Co. ("Grant"), Bridgeport, Conn.
Browne & Dowd Mfg. Co. ("Yankee"), Meriden, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Denison Mfg. Co. ("Denison"), Warren, O.
Fletcher, Terry & Co., Forestville, Conn.
General Specialty Co. ("Bi-Ped"), 24 S 7th, Hoague, J. H., Chicopee, Mass. Phila., Pa.
Knickerbocker Mfg. Co., Belleville, N. J.
Lowentraut, P. Mfg. Co. ("Montgomery"), Newark, N. J.
Rocky Hill Hardware Co. ("Samson" Polished Steel & Malleable Japanned, etc.), Rocky Hill, Conn.
S. & I. Co. ("S. & I.", Extractors & Spreaders), Springfield, Mass.
**SMITH & HEMENWAY CO. ("Giant"** & "Red Devil"), 150 Chambers, New York. (See adv. index, end of book)
Utica Drop Forge & Tool Co., Utica, N. Y.
Verona Tool Works (Spike, etc.), Pittsburg, Pa., & Verona, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.

## 9013— Pullers (Wire)

Dicke Tool Co. ("The Imperial"), Downers Grove, Ill.
Browne & Dowd Mfg. Co. ("Yankee"), Meriden, Conn.

## 9014— Pulley Covering

American No-Slip Cement Co., Boston, Mass.
Baerti Anti-Slip Cement Co. ("Baerti"), 36 Pearl, New York
Boston Woven Hose & Rubber Co. ("Milo" Stitched Canvas), Cambridgeport, Mass.
Eclipse Pulley Covering Co., 2122 W Monroe, Chicago, Ill.
Fansher Bros. ("Anti-Slip" Pulley Dressing), Dayton, O.
Oak Leather Pulley Covering Co. (Oak Leather), 432 N 10th, Phila., Pa.
Onward Mfg. Co. ("O. C. Little"), Menasha, Wis.
Peerless Mfg. & Sales Co. ("Peerless" Facing), 1011 Chestnut, Phila., Pa.
Shultz Belting Co., 402 Barton, St. Louis, Mo.
Thermoid Rubber Co., Trenton, N. J.
Turner, J. S. Mfg. Co., Lowell, Mass.
U. S. Pulley Covering Co., 212 Washington, New York

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## 9015—Pulleys (Anti-Friction, Dumb Waiter)

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

## 9016— Pulleys (Arc Lamp)

Ajax Line Material Co. ("Universal"), So. Milwaukee, Wis.
Brady, T. H., New Britain, Conn.
Creaghead Engineering Co., Cincinnati, O.
Cutter, Geo. Co. ("Cutter's"), South Bend, Ind.
Electrical Construction Supply Co., Springfield, Ohio
Fletcher Mfg. Co. (Automatic Suspension, etc), Dayton, Ohio
Fort Wayne Electric Works, Fort Wayne, Ind.

## 9017—Pulleys (Awning & Tackle)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Laughlin, Thomas Co., Portland, Me.
Marine Hardware & Equipment Co., South Portland, Me.
Ney Mfg. Co., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.
Wrightsville Hardware Co., Wrightsville, Pa.

## 9017a—Pulleys (Ball Bearing)

**KNOWLTON, M. D. CO., Rochester, N. Y.** (See adv. index & branch offices, end of book)

## 9018— Pulleys (Bell Cord)

Brill, J. G. Co. (Also Register Cord), Phila., Pa.
Creamer, W. G. & Co., 96 John, New York

## 9019— Pulleys (Cast Iron)

(See also Machinery, Power Transmitting)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Tool & Machine Co., 109 Beach, Boston
Bates Machine Co., Joliet, Ill.
Birmingham Iron Foundry, Derby, Conn.
Bond Foundry & Machine Co., Manheim, Pa.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buckeye Iron & Brass Works, Dayton, O.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Dayton Globe Iron Works Co., Dayton, O.
Dodge Mfg. Co., Mishawaka, Ind.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Eastwood, Benj. Co., Paterson, N. J.
Fales & Jenks Machine Co., Pawtucket, R. I.
Falls Clutch & Machinery Co., Cuyahoga Falls, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Filer Stowell Co., Milwaukee, Wis.
Fischer Foundry & Machine Co., Pittsburg, Pa.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Frick Co., Waynesboro, Pa.
Frost Mfg. Co., Galesburg, Ill.
Fulton Machine Co., Canal Fulton, O.
Goldens' Foundry & Machine Co., Columbus, Ga.
Great Western Mfg. Co., Leavenworth, Kans.
Greenwald, I. & E. Co., Cincinnati, O.
Hagerty Bros. Co., Peoria, Ill.
Hess-Snyder Co., Massillon, O.
Hill Clutch Co., Cleveland, O.
Holyoke Machine Co., Holyoke, Mass.
Howard Iron Works, Buffalo, N. Y.
Humphrey Machine Co., Keene, N. H.
Hunt, Rodney, Machine Co., Orange, Mass.
Hunter, Jas. Machine Co., North Adams, Mass.
Jacobson Machine Mfg. Co. (Clutch), Warren, Pa.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**Jones, W. A. Foundry & Machine Co. (Machine** Moulded), 1401 W North av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kaestner & Hecht Co. (Inc.), 440 S Jefferson, Chicago, Ill.
Keasey Pulley Co., Toledo, O.
Klotz Machine Co., Sandusky, O.
Lane Mfg. Co., Montpelier, Vt.
**LEADER IRON WORKS (Jobbers),** Decatur, Ill. (See adv. index & branch offices, end of book)
Leffel, Jas. & Co., Inc., Springfield, O.
Love Bros. (Inc.), Aurora, Ill.
McCaffrey, Jno. (Shaft), Lawrence, Mass.
Marseilles Mfg. Co., East Moline, Ill.
Medart Patent Pulley Co., St. Louis, Mo.
**MINNEAPOLIS STEEL & MACHINERY** Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Minster Machine Co., Minster, O.
Mobile Stove & Pulley Co., Mobile, Ala.
Muir, Hugh Co., 240 Chicago av, Chicago, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Plamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill.
Platt Iron Works Co., Dayton, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Porter Foundry & Machine Co., Pittsburg, Pa.
Portland Co., Portland, Me.
Pyott Co., 945 Carroll av, Chicago, Ill.
St. Marys Machine Co. ("Likens Clutch"), St. Marys, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
Skillin & Richards Mfg. Co., 46th av & Courtland, Chicago, Ill.
Smith, H. B. Machine Co., Smithville, N. J.
South Bend Pulley Co., South Bend, Ind.
Southern Engine Boiler Works (Inc.), Jackson, Tenn.
**SPROUT, WALDRON & CO. Muncy, Pa.** (See adv. index, end of book)
Standard Pulley Co., Cincinnati, O.
Standard Puiley & Foundry Co. (Machine, Moulded, etc.), 1228 Collins, St. Louis, Mo.
Stephens-Adamson Mfg. Co., Aurora, Ill.
Strait, H. N. Mfg. Co., Kansas City, Kans.
Toledo Foundry & Machine Co., Toledo, O.
Trump Mfg. Co., Springfield, Ohio.
**UNION IRON WORKS, Inc., 630 E** William, Decatur, Ill. (See adv. index, end of book)
Union Machine Co., Worcester, Mass.
Valley Iron Works, Williamsport, Pa.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E North av,** Chicago, Ill. (See adv. index, end of book)
White, Jno. A. Co., Dover, N. H.
Wickes Bros., Saginaw, Mich.
Wolf Co., Chambersburg, Pa.
Wood's, T. B., Sons Co., Chambersburg, Pa.
Woonsocket Machine & Press Co., Woonsocket, R. I.

## 9020— Pulleys (Ceiling)

American Foundry & Mfg. Co., St. Louis, Mo.
Automatic Damper Co. ("Star" Ball Bearing, with Adjustable Guards), Milwaukee, Wis.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
Stover Mfg. Co., Freeport, Ill.

## 9021—Pulleys (Clothes Line, Cast Iron)

American Foundry & Mfg. Co., St. Louis, Mo.
Browne & Dowd Mfg. Co., Meriden, Conn.
Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York
Lawrence Bros., Sterling, Ill.
Peck, Stow & Wilcox Co. ("Knot Passing"), Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co., Freeport, Ill.
Susquehanna Casting Co., Wrightsville, Pa.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## 9022—Pulleys (Clothes Line, Wooden)

Estes, E. B. & Sons, 74 Warren, New York
Freeman Mfg. Co., Kalkaska, Mich.
Richardi & Bechtold, Bellaire, Mich.
Seib Bros., Jersey City, N. J.

## 9023— Pulleys (Cone)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
**EVANS FRICTION CONE CO. (Countershaft,** Variable Speed), Newton Center, Mass. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Howard Iron Works, Buffalo, N. Y.
Keasey Pulley Co., Toledo, O.
Lane Mfg. Co., Montpelier, Vt.
Osgood & Baker, Bellows Falls, Vt.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Woonsocket Machine & Press Co., Woonsocket, R. I.

## 9024— Pulleys (Coopers')

White, L. & I. J. Co., Buffalo, N. Y.

## 9024a—Pulleys ("Evans" Friction Cone)

**EVANS FRICTION CONE CO. ("Evans"** Power Drive), Newton Center, Mass. (See adv. index, end of book)

## 9025— Pulleys (Flanged)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
Erie Clutch & Pulley Co., Erie, Pa.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Howard Iron Works, Buffalo, N. Y.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keasey Pulley Co., Toledo, O.
**MINNEAPOLIS STEEL & MACHINERY** Co. Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
**UNION IRON WORKS, Inc., 630 E** William, Decatur, Ill. (See adv. index, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Woonsocket Mach. & Press Co., Woonsocket, R. I.

## 9026— Pulleys (Floor)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 9027—Pulleys (Friction Clutch)

(See Clutches, Friction)

**ALLIS-CHALMERS CO. ("A. C."),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Barnard & Leas Mfg. Co., Moline, Ill.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Brown & Sharpe Mfg. Co. (Self-Oiling), Providence, R. I.
**CALDWELL, H. W. & SON CO.** ("Caldwell" Double Disc, etc.), Western av & 17th, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cowanesque Valley Iron Works ("Rieppell's"), Cowanesque, Pa.
Cresson, Geo. V. Co., Allegheny av, w of 17th, Phila., Pa.
Carrouthers-Fithian Clutch Co., Grove City, Pa.
Diamond Iron Works ("Wilkinson"), Minneapolis, Minn.

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Dodge Mfg. Co., Mishawaka, Ind.
Eastern Machinery Co., New Haven, Conn.
Edgemont Machine Co., Dayton, O.
Erie Clutch Pulley Co. ("Standard"), Erie, Pa.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Friction Pulley & Machine Works (Noiseless Success Screen), Hudson Falls, N. Y.
Garland, M. Co. (Clutch), Bay City, Mich.
Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
Great Western Mfg. Co., Leavenworth, Kan.
Hill Clutch Co. (Solid & Split), Cleveland, O.
Hess, Snyder Co., Masillon, O.
Howard Iron Works, Buffalo, N. Y.
Hoyt Mfg. Co. ("Munsing"), Minneapolis, Minn.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, Jas. Machine Co., North Adams, Mass.
Hydraulic Press Mfg. Co., Mount Gilead, O.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Jones, W. A. Foundry & Machine Co., 1401 W North av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keasey Pulley Co., Toledo, O.
Kissinger & Son Co., Cincinnati, O.
LEADER IRON WORKS (Jobbers), Decatur, Ill. (See adv. index & branch offices, end of book)
LINK BELT COMPANY, Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch oces, effind of book)
McMahon & Co., Worcester, Mass.
Mason, Volney W. & Co., Providence, R. I.
Medart Patent Pulley Co., St. Louis, Mo.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Minster Machine Co. ("Herken" for Gas Engines), Minster, O.
Moore & White Co., 15th & Lehigh av, Philadelphia, Pa.
New Era Gas Engine Co, Dayton, O.
New Haven Mfg. Co., New Haven, Conn.
Oesterlein Machine Co., Cincinnati, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Plamondon, A. Mfg. Co., 14 N Clinton, Chicago, Ill.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Pusey & Jones Co., Wilmington, Del.
Pyott Co., 945 Carroll av, Chicago, Ill.
Sandy Hill Iron & Brass Works ("Hercules"), Hudson Falls, N. Y.
Sellers, Wm. Co., 1600 Hamilton, Phila., Pa.
Sinclair-Scott Co., Baltimore, Md.
Skillin & Richards Mfg. Co. ("Muir's"), 46th av & Courtland, Chicago, Ill.
Sly, W. W. Mfg. Co., Cleveland, O.
Standard Pulley Co. (Countershafts), Cincinnati, O.
Stephens-Adamson Mfg. Co. ("S-A" Steel Plate), Aurora, Ill.
UNION IRON WORKS, Inc., 630 E William, Decatur, Ill. (See adv. index, end of book)
Union Iron Works Co., San Francisco, Cal.
WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.
Wood's, T. B. Sons Co., Chambersburg, Pa.
Yocom, Jas. & Son, 145 N 2d, Phila., Pa.

## 9028– Pulleys (Grooved)

BOSTON GEAR WORKS (Brass & Cast Iron), Norfolk Downs, Mass. (See adv. index, end of book)
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)
Eastwood, Benj. Co., Paterson, N. J.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

## 9029– Pulleys (Guide)

BROWN, A. & F. CO., 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Hunter, Jas. Machine Co., North Adams, Mass.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keasey Pulley, Co., Toledo, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Toledo Foundry & Machine Co., Toledo, O.
WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9030– Pulleys (Hay Fork)

American Casting Co., Birmingham, Ala.
American Foundry & Mfg. Co., St. Louis, Mo.
American Seeding Machine Co. ("Superior"), Springfield, O.
Cheney, S. & Son (Scoville's), Manlius, N. Y.
Cleveland Block Co., 163 River, Cleveland, O.
Colebrookdale Iron Co., Pottstown, Pa.
Dissinger, C. H. A. & Bro. (Safety Clutch), Wrightsville, Pa.
Eagle Mfg. Co., Appleton, Wis.
Goshen Mfg. Co., Goshen, Ind.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hunt, Helm, Ferris & Co. ("Star", "O. K.", "Peerless"), Harvard, Ill.
Kupferle, Jno. C. (Iron & Wood), St. Louis, Mo.
Lawrence Bros., Sterling, Ill.
Louden Machinery Co. ("Louden"), Fairfield, Ia.
Mason, F. C. & Co., St. Johns, Mich.
Milwaukee Hay Tool Co. ("Milwaukee"), Milwaukee, Wis.
Missouri Malleable Iron Co., E. St. Louis, Ill.
MYERS, F. E. & BRO. ("Myers O. K.," "Myers," "Reed," "Sure Grip" & "Faultless;" also "Myers Universal" Reversible & "Myers" Self-Locking Sling Pulleys), Ashland, O. (See adv. index & branch offices, end of book)
Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, Ohio
Ohio Farmers' Hay Tool Co., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Phillips & Buttorff Mfg. Co., Nashville, Tenn.
Porter, J. E. Co. ("Porter," "Self-Locking Sling," "Sling-Binding"), Ottawa, Ill.
Reading Hardware Co., Reading, Pa.
Ricker Mfg. Co., Rochester, N. Y.
St. Marys Machine Co. (Clutch), St. Marys, O.
Sargent & Co., New Haven, Conn.
South Bend Foundry Co., South Bend, Ind.
Stowell Mfg. & Foundry Co. ("Stowell," Anti-Friction & Common), South Milwaukee, Wis.
Strickler Hay Tool Co. ("Strickler"), Janesville, Wis.
Susquehanna Casting Co., Wrightsville, Pa.
Swett, A. L. Iron Works, Medina, N. Y.
Swineford, G. A., Co., Canton, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
U. S. Wind Engine & Pump Co. ("U.-S."), Batavia, Ill.
Weller Hardware & Foundry Co., Horseheads, N. Y.
WHITMAN & BARNES MFG. CO. (Hay, Sling, etc.), Akron, O. (See adv. index & branch offices, end of book)
Wrightsville Hardware Co., Wrightsville, Pa.

## 9031– Pulleys (Iron Split)

BROWN, A. & F. CO., 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
CALDWELL, H. W. & SON CO. (Finished), 17th & Western av, Chicago, Ill (See adv. index & branch offices, end of book)
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)
CHAIN BELT CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & ranch offices, end of book)
Howard Iron Works, Buffalo, N. Y.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keasey Pulley Co., Toledo, O.
LEADER IRON WORKS (Jobbers), Decatur, Ill. (See adv. index & branch offices, end of book)
MINNEAPOLIS STEEL & MACHINery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
Poole Engineering & Machine Co., Baltimore Md
Salem Foundry & Machine Works, Salem, Va
Standard Pulley Co., Cincinnati, O.
UNION IRON WORKS, Inc., 630 E William, Decatur, Ill. (See adv. index, end of book)
Valley Iron Works, Williamsport, Pa.
WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9032– Pulleys (Loose)

BROWN, A. & F. CO., 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)
CHAIN BELT CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood, Benj. Co., Paterson, N. J.
Erie Clutch & Pulley Co., Erie, Pa.
Keasey Pulley Co., Toledo, O.
LEADER IRON WORKS (Jobbers), Decatur, Ill. (See adv. index & branch offices, end of book)
McCaffrey, John, Lawrence, Mass.
MINNEAPOLIS STEEL & MACHINery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co. (Also Tight), Indianapolis, Ind.
NORTH AMERICAN METALINE CO. (Oilless Bearing), 4 West av, Long Island City, N. Y. (See adv. index, end of book)
UNION IRON WORKS, Inc., 630 E William, Decatur, Ill. (See adv. index, end of book)
Valley Iron Works, Williamsport, Pa.
WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)
WILMARTH & MORMAN CO. ("Nelson"), 585 Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 9033–Pulleys (Machine Moulded)

BROWN, A. & F. CO., 172 Fulton, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
CALDWELL, H. W. & SON CO., 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)
CHAIN BELT CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Howard Iron Works, Buffalo, N. Y.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Jones, W. A. Foundry & Machine Co., 143 W North av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keasey Pulley Co., Toledo, O.
LINK BELT COMPANY, Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McLagon Foundry Co., New Haven, Conn.
Nordyke & Marmon Co., Indianapolis, Ind.
Standard Pulley Co., Cincinnati, O.
Stephens-Adamson Mfg. Co., Aurora, Ill.
UNION IRON WORKS, Inc., 630 E William, Decatur, Ill. (See adv. index, end of book)
WEBSTER MFG. CO., 2410 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9034– Pulleys (Paper)

Rockwood Mfg. Co. ("American"), 1810 English av, Indianapolis, Ind.

## 9035–Pulleys (Pressed Steel)

American Pulley Co. (Split), 29th & Bristol, Phila., Pa.
Oneida Steel Pulley Co. (Split), Oneida, N. Y.
Phillips Pressed Steel Pulley Works, 4th & Glenwood av, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND Co. ("American"), 336-344 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
Worcester Pressed Steel Pulley Co. (Flat, Crown Face & Split), Worcester, Mass.

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## 9036— Pulleys (Sash)

American Foundry & Mfg. Co., St. Louis, Mo.
American Pulley Co. ("20th Century"), Phila., Pa.
**Austin & Eddy, 117 Broad, Boston, Mass.**
**Bridgeport Sash Pulley Co. (All Steel), Grand Rapids, Mich.**
Chantrell Hardware & Tool Co., Reading, Pa.
Clark Mfg. Co., Buffalo, N. Y.
Clarkson Mfg. Co. (Ball Bearing), Baltimore, Md.
Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Enterprise Foundry Co., Pittsburg, Pa.
**Gardner Sash Balance Co. (Ball Bearing), 164 Dearborn, Chicago, Ill.**
**Grand Rapids Hardware Co. ("Grand Rapids" All Steel Ball Bearing), Grand Rapids, Mich.**
**Grant Pulley & Hardware Co. ("Grant" Overhead & "American" Steel), 3 W 29th, New York**
Hardware & Woodenware Mfg. Co. (L. & S. I. Co.), 693 B'way, New York
**Johnston & Sharp Mfg. Co. ("Ottumwa" Ball Bearing Steel), Ottumwa, Iowa**
Kline Hardware Co., Allentown, Pa.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Lawrence, Clayton (Est. of), Reading, Pa.
McDonough Mfg. Co., Eau Claire, Wis.
Minerva Hardware Mfg. Co., Minerva, O.
**Niagara Falls Metal Stamping Co., Niagara Falls, N. Y.**
**O. K. Mfg. Co. ("O. K." Pressed Steel), 4 E German. Baltimore, Md.**
Palmer Hardware Mfg. Co., Troy, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
**Prairie Mfg. Co., Indianapolis, Ind.**
**Reading Hdw. Co. (Ball & Roller Bearing), Reading, Pa.**
Riverside Foundry Co., Wrightsville, Pa.
**Russell & Erwin Mfg. Co., New Britain, Conn.**
Sargent & Co., New Haven, Conn.
**Smith & Egge Mfg. Co., Bridgeport, Conn.**
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Susquehanna Casting Co., Wrightsville, Pa.
Wrightsville Hdw. Co. ("Niagara," "Star," "Acme." "Gem" & "Empire" for Auger Mortises), Wrightsville, Pa.

## 9037— Pulleys (Screw)

**Judd, H. L. Co., 87 Chambers, New York**
**Ney Mfg. Co., Canton. O.**
Peck, Stow & Wilcox Co., Southington, Conn.
**Penn Hardware Co., Reading, a.**
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co., Freeport, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

## 9038—Pulleys (Self-Oiling)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. **(See adv. index, end of book)**
**CALDWELL, W. E. C., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**Cowdrey, C. H. Machine Works, Fitchburg, Mass.**
**Howard Iron Works, Buffalo. N. Y.**
**Luther, B. G. & Co., Worcester, Mass.**
Nordyke & Marmon Co., Indianapolis, Ind.

## 9039—Pulleys (Shade & Screw)

**TURNER & SEYMOUR MFG. CO., Torrington,** Conn. (See adv. index, end of book)

## 9040—Pulleys (Show Case)

Gardner Sash Balance Co. (Ball Bearing), 164 Dearborn, Chicago, Ill.
Grant Pulley & Hardware Co., 3 W 29th, New York

## 9040a—Pulleys (Sleet Proof)

Fletcher Mfg. Co., Dayton, O.

## 9041— Pulleys (Small)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## Pulleys (Speed Changing)

(See Variable Speed Transmission)

## 9042— Pulleys (Well Wheel)

**South Bend Foundry Co., South Bend, Ind.**

## 9043—Pulleys (Wire Tightening)

Smith, Otis A. (Pulley & Eccentric Clamp Attached for Wire Fence & Telephone Wire, etc.), Rockfall, Conn.

## 9044— Pulleys (Wood Rim)

Dodge Mfg. Co., Mishawaka, Ind.
Erie Clutch & Pulley Co., Erie, Pa.
**Keasey Pulley Co., Toledo, O.**
Oneida Steel Pulley Co. (Steel Centre), Oneida, N. Y.

## 9045— Pulleys (Wood Split)

Barnard Mfg. Co., Spokane, Wash.
Barnard & Leas Mfg. Co. ("Cornwall-Barnard"), Moline, Ill.
Bradford Belting Co. ("Monarch"), Cincinnati, Ohio
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. **(See adv. index, end of book)**
Burlingame, A. Co., Worcester, Mass.
Case Mfg. Co., Columbus, O.
Chase Pulley Co. (Wood Rim, with Iron Hubs & Arms), Providence, R. I.
Detroit Wood Pulley Co., Detroit, Mich.
Dodge Mfg. Co. ("Independence"), Mishawaka, Ind.
Eclipse Wood Pulley Co., Berlin, Pa.
Erie Clutch & Pulley Co. ("Tornado"), Erie, Pa.
Estes Coupling Works ("Forster", also "Estes" Combination Split Pulleys), Cuba, N. Y.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)**
Keasey Pulley Co. ("Reliance", "Keasey" Malleable Iron Centre), Toledo, O.
**LEADER IRON WORKS (Jobbers),** Decatur, Ill. (See adv. index & branch offices, end of book)
Medart Patent Pulley Co., St. Louis, Mo.
**Menasha Wood Split Pulley Co. ("Lawson"), Menasha, Wis.**
Ohio Valley Pully Works ("The Limestone"), Maysville, Ky.
**Oneida Steel Pulley Co. ("The Fulton"), Oneida, N. Y.**
Paul Mfg. Co., Fort Wayne, Ind.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**Reading Wood Pulley Co. (Wood Rim & Wood Centre & Wood Rim & Iron Centre), Reading, Pa.**
Reeves Pulley Co., Columbus, Ind.
Saginaw Mfg. Co. ("Gilbert"), Saginaw, Mich.
South Bend Pulley Co., South Bend, Ind.
**STRONG, CARLISLE & HAMMOND** Co. ("Reeves"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
**WALSH'S SONS & CO., Harrison, N.** J. (See adv. index, end of book)
**Washington Pulley & Mfg. Co. ("Washington" Split Clevis & "Pacific" Split Compression), Seattle, Wash.**
Wing, J. T. & Co. ("Detroit"), 19 Woodward av., Detroit, Mich.
Woonsocket Machine & Press Co., Woonsocket, R. I.

## 9046—Pulleys (Wrought Steel)

American Pulley Co. ("American" Whole Steel), 29th & Bristol, Phila., Pa.
**CALDWELL, H. W. & SON CO.** (Split). 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Medart Patent Pulley Co. (Wrought Rim), 3500 De Kalb, St. Louis, Mo.**
**Meese & Gottfried Co. (Wrought Rim), 167 Fremont, San Francisco, Cal.**
**Oneida Steel Pulley Co. (Pressed Steel), Oneida, N. Y.**
**STRONG, CARLISLE & HAMMOND** Co. ("American"), 336-344 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)

## 9047— Pulls (Closet)

**BERNZ, OTTO (Crystal Glass, Cut** Glass, Opaque & Wood), 21 Ashland av, Newark, N. J. (See adv. index, end of book)
**Boekel, Wm. & Co., 518 Vine, Phila., Pa.**
Bogert & Hopper (Wooden), 162 William, New York
**Celluvarno Co., Newark, N. J.**
Chambers & Co., Newark. N. J.
Church, C. F. Mfg. Co., Holyoke, Mass.
Coyne & Delaney Co., 832 Kent av, Brooklyn, N. Y.
**Emery, Wm. S. (Wood), 78 Cliff, New York**
Estes, E. B. & Sons (Wooden), 74 Warren,
**Frost Mfg. Co., Kenosha, Wis.** New York
Hutter, Karl, 241 Lafayette, New York
Ideal Mfg. Co., Detroit, Mich.
Ireland & Matthews Mfg. Co. (Metal), Detroit, Mich.
Kupferle, J. C. Foundry Co., St. Louis, Mo.
Lipp, Louis Co., Cincinnati, O.
Maddock, John & Sons (Porcelain), Trenton, N. J.
**Maddock, Thos. Sons Co. (Porcelain), Trenton, N. J.**
Meyer-Sniffen Co., 11 W 36th, New York
Mott, J. L. Iron Works (Porcelain), 118 5th av, New York
**Mueller, H. Mfg. Co. (Wood), Decatur, Ill.**
Russell, J. M. Mfg. Co., Naugatuck, Conn.
**Smith & Egge Mfg. Co. (Wood), Bridgeport, Conn.**
Speakman Supply & Pipe Co., Wilmington, Del.
**Stortz, John & Son, 210 Vine, Phila., Pa.**
**Trenton Potteries Co. (Porcelain), Trenton, N.J.**
**Union Brass & Metal Mfg. Co. (Wood), St. Paul, Minn.**
**Warner, A. H. & Co. (Water Closet), Bristol, Conn.**
Waterbury Mfg. Co., Waterbury, Conn.
**Williams & Marvin Mfg. Co. (Wood), Deep** River, Conn.
Wolverine Brass Works, Grand Rapids, Mich.
**Young, Jos. H., Boston, Mass.**

## 9048— Pulls (Door)

**Atlas Mfg. Co. (Wire), New Haven, Conn.**
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
**Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.**
**Chicago Spring Butt Co., 334 Union Park pl, Chicago, Ill.**
Columbian Hardware Co. ("Columbian" & "Gem"), Cleveland, O.
**Cronk & Carrier Mfg. Co. (Barn), Elmira,**
**Corbin, P. & F., New Britain, Conn. N. Y.**
Edwards, O. M. Co., Syracuse, N. Y.
Heath Foundry & Mfg. Co., Plymouth, O.
Hunt, Helm & Ferris, Harvard, Ill.
Ives, H. B. Co., New Haven, Conn.
Jenckes, E. Mfg. Co., Worcester, Mass.
Kohler, F. E. & Co. (Steel), Canton, O.
Lawrence Bros., Sterling, Ill.
**Mallory-Wheeler Co., New Haven, Conn.**
**National Mfg. Co. (All Steel), Sterling, Ill.**
**Norwalk Lock Co., South Norwalk, Conn.**
Parker Wire Goods Co., Worcester, Mass.
**Payson Mfg. Co., 2918 W Jackson boul, Chicago, Ill.**
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
**Peters, Jas. & Son (Wrought Iron), 1934 N. Front, Phila., Pa.**
Phoenix Lock Works, Newark, N. J.
**Reading Hardware Co., Reading, Pa**
**RICHARDS - WILCOX MFG. CO.** ("Richards" Steel Flush & Handle), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
**Sharon Hardware Mfg. Co. (All Steel Door & Cabinet), Sharon, Pa.**
**Shelby Spring Hinge Co. (Steel), Shelby, O.**
Stearns, E. C. & Co., Syracuse, N. Y.
**Stover Mfg. Co. (Also Barn Door), Freeport, Ill.**
Swett, A. L. Iron Works, Medina, N. Y.
**Weller Hardware & Foundry Co., Horseheads, N. Y.**
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co., Worcester, Mass.
Yale & Towne Mfg. Co., 9 Murray, New York

## 9049— Pulls (Drawer)

American Ring Co., Waterbury, Conn.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
**Atlas Mfg. Co. (Wire), New Haven, Conn.**
Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.
Brooks, M. S. & Sons, Chester, Conn.
**Champion Safety Lock Co., Geneva, O.**
Chantrell Hardware & Tool Co., Reading, Pa.
Clark, N. J. Co., Salem, O.
Columbian Hardware Co., Cleveland, O.
**Corbin Cabinet Lock Co., New Britain, Conn.**
Eagle Lock Co., Terryville, Conn.

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Edwards, O. M. Co., Syracuse, N. Y.
Ellis Mfg. Co., Milldale, Conn.
**Foster, Merriam & Co., Meriden, Conn.**
Grand Rapids Brass Co., Grand Rapids, Mich.
Grand Rapids Hardware Co., Grand Rapids, Mich.
**Griffin Mfg. Co., Erie, Pa.**
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hardware Supply Co., Grand Rapids, Mich.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Ives, H. B. Co., New Haven, Conn.
Jenckes, E. Mfg. Co., Worcester, Mass.
Judd, H. L. Co., 87 Chambers, New York
Keeler Brass Co., Grand Rapids, Mich.
Lawrence Bros. (Steel), **Sterling, Ill.**
McKinney Mfg. Co. (Pressed Steel), N S, Pittsburg, Pa.
National Lock Co. (Or Furniture), Rockford, Ill.
National Mfg. Co. (Pressed Steel or Brass), **Sterling, Ill.**
**Payson Mfg. Co., 218 W Jackson boul, Chicago, Ill.**
Parker Wire Goods Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
**Penn Hardware Co.**, Reading, Pa.
Phoenix Lock Works, Newark, N. J.
Piqua Handle & Mfg. Co. (Wooden), **Piqua, O.**
Reading Hardware Co., Reading, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.
**Rowe, Henry Mfg. Co., Newaygo, Mich.**
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn. Conn.
**Sharon Hardware Mfg. Co. (All Steel), Sharon, Pa.**
Shelby Spring Hinge Co. (Steel, Bronze or Brass Metal, Polished), Shelby, O.
Standard Mfg. Co., Shelby, O.
**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices,
Stover Mfg. Co., Freeport, Ill. end of book)
Taylor & Boggis Foundry Co. (Drop), Cleveland, O.
Thomas Bros. Mfg. Co., 2554 Fillmore, Chicago, Ill.
**VOELKNER & HARRY MANUFACturing Co. (Polished Brass), 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)**
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Williams, A. C. Co., Ravenna, O.
Wire Goods Co., Worcester, Mass.
Wise, J. B., Watertown, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

## 9050– Pulls (Screen Door)

American Ring Co., Waterury, Conn.
Brooks, M. S. & Sons (Also Ring Shade Pulls), Chester, Conn.
Columbian Hardware Co., Cleveland, O.
Hunt, Helen, Ferris & Co. ("Star", "Handy"), Harvard, Ill.
Kohler, F. E. & Co., Canton, O.
Ives, H. B. Co., New Haven, Conn.
Richards, T. C. Hardware Co., Winsted, Conn.
Shelby Spring Hinge Co., Shelby, O.
Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works (John E. Gaitley, Prop'r) ("Alaska"), Albany, N. Y.

## 9050a– Pulls (Shade)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 9050– Pulls (Tank)

(See Pulls, Closet)

## 9051– Pulp (Asbestine)

International Pulp Co., 41 Park Row, New York

## 9052–Pulpit & Altar Rails

Detroit Arch'l Iron Works Co., Detroit, Mich.
Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.
Hyde-Murphy Co., Ridgway, Pa.
Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
**STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass.** (See adv. index, end of book)

## 9053– Pulsometers (Acid)

Sittig, J. W., 5 Beekman, New York

## Pulverizers

(See Crushers, various kinds; also Pulverizing Machinery; also Mills, Grinding)

## 9054– Pulverizers (Cement)

(See also Cement Machinery)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Mead & Co., Detroit, Mich.
**THROPP'S, JOHN E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)

## 9055– Pulverizers (Clay)

(See also Crushers, Clay)

**CROSSLEY MACHINE CO., Bell &** Monmouth, Trenton, N. J. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Mead & Co., Detroit, Mich.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
**THROPP, JOHN E. SONS CO., ft of** Lewis, Trenton, N. J. (See adv. index, end of book)

## 9056– Pulverizers (Coal)

(See also Crushers, Coal & Coke)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Mead & Co., Detroit, Mich.
**STROUD, E. H. & CO., 55 W Kinzie,** Chicago, Ill. (See adv. index, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 9057– Pulverizers (Disc)

Denver Fire Clay Co. ("Iler"), Denver, Colo.
Mead & Co., Detroit, Mich.

## 9058–Pulverizers (Fuel Combustion)

Aero Pulverizer Co. ("Aero"), 90 West, New York

## 9059– Pulverizers (Stone)

Hardinge Conical Mill Co. ("Hardinge"), 50 Church, New York
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Lehigh Car, Wheel & Cycle Works ("Fuller-Lehigh"), Catasauqua, Pa.
Pennsylvania Crusher Co. ("Pennsylvania", Hammer Crusher), Stephen Girard bldg, Phila., Pa.
Raymond Bros. Impact Pulverizer Co. ("Raymond"), 1503 W Harrison, Chicago, Ill.

## 9060– Pulverizers (Sugar)

Mead & Co., Detroit, Mich.

## 9061– Pumice Brick

**DOGGETT, STANLEY (Purified), 101** Beekman, New York. (See adv. index, end of book)
Harrison Supply Co. (Purified), Boston, Mass.
Rhodes, James H. & Co. ("Rhodes" Bimsstein Fabrik), 162 W Kinzie, Chicago, Ill.

## 9062–Pumice Stone Importers

American Pumice Co., 365 E Illinois, Chicago, Ill.
Behr, Herman & Co., 75 Beekman, New York
Chrystal, Charles B., 11 Cliff, New York
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Hammill & Gillespie, 240 Front, New York.
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Harrison Supply Co. (Selected Lump), 5 & 7 Dorchester av Extension, Boston, Mass.
Rhodes, Jas. H. & Co. (Grinders of Italian), 162 W Kinzie, Chicago, Ill.
Van Amringe, Theo., 241 Water, New York
Waddell & Co., 52 Beekman, New York
Wiarda, Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 9062a– Pump Logs

**WYCKOFF, A. & SON CO., Elmira,** N. Y., & Alexandria, La. (See adv. index, end of book)

## Pump Starters (Automatic)

(See Self Starters)

## 9063–Pump & Engine (Combined)

**UNION ELEVATOR & MACHINE CO.** (For Contractors, Railroads, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## Pumping Machinery

(See Machinery, Pumping; also Pumps, Various Kinds)

## 9064–Pumping Outfits (All Kinds)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 9065–Pumping Outfits for Oil, Gas & Water Wells

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**MARION MACHINE, FOUNDRY &** Supply Co., Marion, Ind. (See adv. index, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**TATE, JONES & CO. (Inc.), Empire bldg,** Pittsburg, Pa. (See adv. index, end of book.)

## 9066–Pumping Outfits (Horse Power)

Appleton Mfg. Co., Batavia, Ill.
Challenge Co., Batavia, Ill.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
U. S. Wind Engine & Pump Co., Batavia, N. Y.

## 9067–Pumping Outfits (Odorless)

Edson Mfg. Co., Boston, Mass.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Noble, H. A. ("National" & "The Improved"), 203 Dock, Phila., Pa.

## 9067a–Pumping Systems (Return Air)

**INGERSOLL-RAND CO. (Air Lift),** 11 B'way, New York. (See adv. index & branch offices, end of book)

## 9068– Pumps (Acid)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)
Bellows Falls Machine Co. (For Mills), Bellows Falls, Vt.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end
Canton Pump Co., Canton, O. of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

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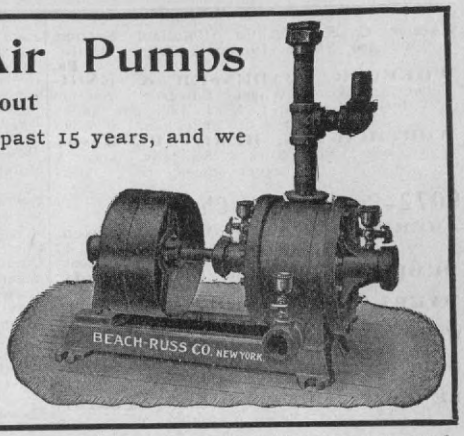
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**PEASE, C. F. CO. (Centrifugal), 167** Adams, Chicago, Ill. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry., Pittsburg, Pa. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.

## 9069—Pumps (Acid, Hard Rubber)

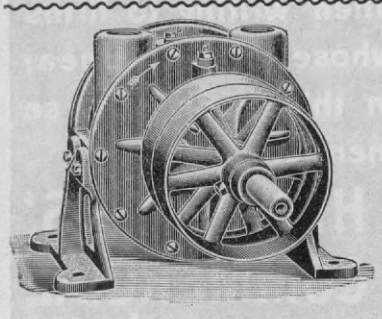
American Hard Rubber Co. (& Pipes & Fittings), 11 Mercer, New York

## 9070—Pump (Acid Metal)

**CAMERON, A. S. STEAM PUMP** Work, 433 E 23d, New York. (See adv. index & branch offices, end of book)

## 9071— Pumps (Air)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
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**BEACH-RUSS CO., 55 Green, Brooklyn.** N. Y. (See adv. index, end of book)
Bishop-Babcock-Becker Co. (Hand), Cleveland, Ohio
Blakeslee Mfg. Co., Du Quoin, Ill.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Bridgeport Brass Co. ("Bridgeport," "Stapley," "Aeolus," "Demo," "Blizzard"), Bridgeport, Conn.
Brunner Mfg. Co. ("Parker"), Utica, N. Y.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Buffalo Steam Pump Co. (Hand Circulating), Buffalo, N. Y.
Burton & Johnson, Cleveland, O.
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Canton Pump Co., Canton, O.
Carron, A. M. Machine Co. (Small, Electric), Pittsburg, Pa.
**CLAYTON AIR COMPRESSOR W'KS** ("Brewers"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Columbus Steam Pump Works, Columbus, O.
Comstock, A. S. (Motor Driven), Evanston, Ill.
**CROWELL, J. GILMER ("Crowell" Rotary), 296** Taaffe pl, Brooklyn, N. Y. (See adv. index, end of book)
**Davidson, M. T. (Single & Twin Cylinder, etc.), 43 Keap, Brooklyn, N. Y.**
Dean Bros. Steam Pump Works (Twin Cylinder), Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Dow, Geo. E. Pumping Co., San Francisco, Cal.
**Economic Power & Pump Co., 84 Cortlandt, New York**
Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
Garratt, W. T. & Co., San Francisco, Cal.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Harris Air Pump Co., Indianapolis, Ind.
Humphryes Mfg. Co. (Automatic), Mansfield, Ohio
Judd & Leland Mfg. Co. ("Cyclone"), Clifton Springs, N. Y.
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Manistee Iron Works, Manistee, Mich.
Mason Regulator Co., Boston, Mass.
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N. Y. Air Brake Co., 165 B'way, New York
cians' & Surgeons' Hydraulic), Columbus, O.
Orrville Pump & Furnace Co. ("Conkell"), Orrville, O.
Pattin Bros. Co., Marietta, O.
Platt Iron Works Co., Dayton, O.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
Reliance Machine & Tool Works, St. Louis, Mo.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Strater, Herman & Sons (Beer), 74 Sudbury, Boston, Mass.
Union Iron Works Co. (And Condenser), San Francisco, Cal.
**UNION STEAM PUMP CO. (Direct** Acting), Battle Creek, Mich. (See adv. index, end of book)
Ward Pump Co. (Double Cylinder), Rockford, Ill.
**Warren Steam Pump Co. (And Condenser), Warren, Mass.**
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
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**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9072—Pumps (Air Chamber)

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**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**Wilder, Sidney & Co., Holliston, Mass.**

## 9073—Pumps (Air, Hand)

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**MYERS, F. E. & BRO. (Hydro-Pneumatic,** "Century" Low Down & Bulldozer), Ashland, O. (See adv. index & branch offices, end of book)

## 9074— Pumps (Air Lift)

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**CLAYTON AIR COMPRESSOR W'KS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
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**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
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**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Pittsburg, Pa.
Harris Air Pump Co., Indianapolis, Ind.
Hudson Engineering Co., 90 West, New York
Indiana Air Pump Co., Indianapolis, Ind.
**INGERSOLL-RAND CO. ("Pohle" &** "Saunders" & Return Air), 11 B'way, New York. (See adv. index & branch offices, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9075—Pumps (Air Pressure Water Supply)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 9076— Pumps (Air, Tire)

Auto Pump Co. ("Spencer"), Springville, N. Y.
Beckley-Ralston Co., 178 Lake, Chicago, Ill.
Bishop-Babcock-Becker Co., Cleveland, O.
Braunsdorf-Muller Co. (Bicycle), Elizabeth, N. J.
Bride, Wm. J. & Co. ("Austin"), Reading, Mass.
Bridgeport Brass Co. ("Demo"), Bridgeport, Conn.
Cleveland Faucet Co. ("Champion"), 17 Frankfort, Cleveland, O.
Coe-Stapley Mfg. Co., Bridgeport, Conn.
Frost Mfg. Co. ("Forcair"), Kenosha, Wis.
Garage Equipment Mfg. Co. ("Dash"), Milwaukee, Wis.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**Imperial Brass Mfg. Co. ("Imperial-Wixon"),** 444 S Jefferson, Chicago, Ill.
Ingersoll, Robt. H. & Bro. (Bicycle), 45 John, New York
Judd & Leland Mfg. Co. ("Eureka," "Columbia," "Hill," "Leland," "Tornado," "Cyclone," "Bonham," "Perfection," "Telescope"), Clifton Springs, N. Y.
Kellogg Mfg. Co., Rochester, N. Y.
Keystone Novelty Co. ("Myers' Aertite"), Columbia, Pa.
Motor Car Specialty Co. ("Lea"), Trenton, N. J.
Motor Car Supply Co. ("Windejammer"), 1427 Michigan av, Chicago, Ill.
Noera Mfg. Co., Waterbury, Conn.
Nyberg Auto Works ("Tom"), 30th & Michigan av, Chicago, Ill.
Post & Lester Co., Hartford, Conn.
Quimby Mfg. Co., Minneapolis, Minn.
Rome Bicycle Mfg. Co. (Bicycle), Rome, N. Y.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Scovill Mfg. Co. (Bicycle), Waterbury, Conn.
Skinner & Skinner ("Skinner"), 4133 Indiana av, Chicago, Ill.
Smith, D. B. & Co. (Bicycle), Utica, N. Y.
Standard Sheet Metal Co., Passaic, N. J.
Stevens & Co. ("Ultra"), 373 B'way, New York
Thomas, W. K., 1876 B'way, New York
Turner Brass Works ("Turner"), Sycamore, Ill.
Union Steam Pump Co. (Air Feed), Battle Creek, Mich.
Waterbury Mfg. Co., Waterbury, Conn.

## 9077—Pumps (Air & Water Combined)

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**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Ward Pump Co., Rockford, Ill.

## 9078— Pumps (Ale & Beer)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Ohio Pump & Brass Co. ("Triumph"), Columbus, Ohio

## 9079— Pumps (Ammonia)

(See Pumps, Steam)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
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**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
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National Steam Pump Co., Upper Sandusky, O.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**Wagener Steam Pump Works, Canton, O.**

## 9080—Pumps (Artesian Well)

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Cook, A. D., Lawrenceburg, Ind.
Cook-Well Co., St. Louis, Mo.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
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**Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.**
Keystone Driller Co., Beaver Falls, Iowa
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
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National Steam Pump Co., Upper Sandusky, O.
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Rider-Ericsson Engine Co., 35 Warren, New York
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
U. S. Wind Engine & Pump Co., Batavia, Ill.
**Weinman Pump Mfg. Co., Columbus, O.**

## 9081— Pumps (Automatic)

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**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS ("Chapman"** Water Intake to Drain Mines, Quarries, etc., for Shallow or High Lift), Aurora, Ill. (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO. (Auto**matic Pumps & Receivers), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co. (Automatic Pumps & Receivers), Fitchburg, Mass.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**CAMERON, A. S. STEAM PUMP** Works: ft E 23d, New York. (See adv. index & branch offices, end of book)

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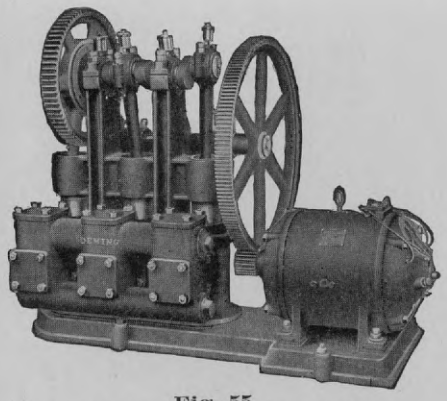


Fig. 55
Electric Driven Pump for Mine Work
Single Acting

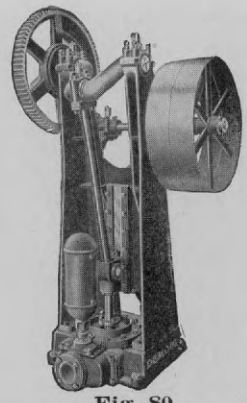


Fig. 80
Deep Well Power
Working Head

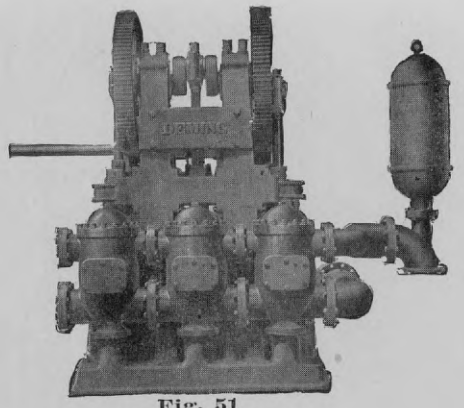


Fig. 51
For General Water Supply
Double Acting

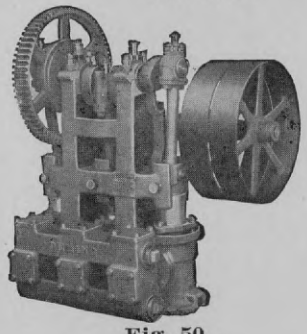


Fig. 50
Boiler Feeding
Single Acting

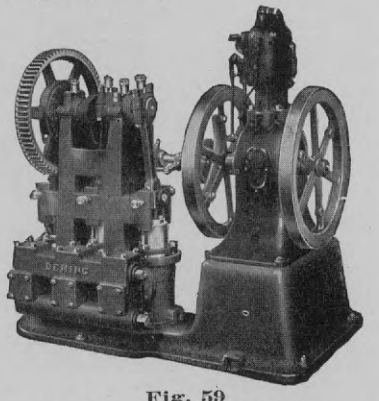


Fig. 59
For Railway Tank Service and
Small Water Works

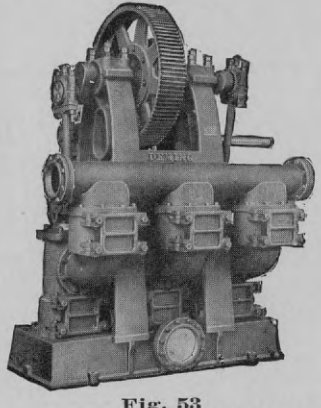


Fig. 53
Single Acting Stuff Pump
For Paper Mills



Fig. 47
For House Use. Noiseless=Automatic

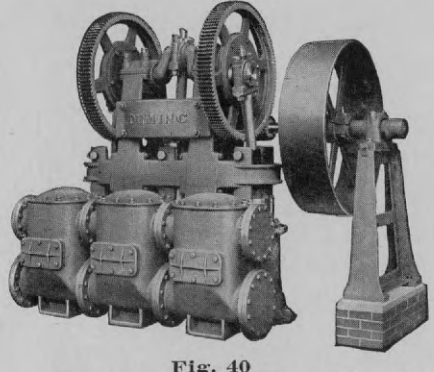


Fig. 40
For Irrigating, Brine Circulation and General
Water Supply.
Double Acting Power Piston Pump

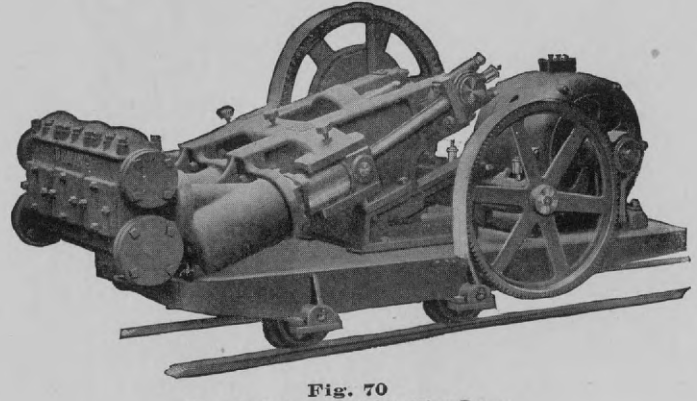


Fig. 70
Electric Driven Portable Mine Pump


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**DEANE STEAM PUMP CO., (Automatic Feed Pumps & Receivers),** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
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**KNOWLES STEAM PUMP WORKS** (Automatic Pumps & Receivers), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MERRITT & CO. (Air), 93 Arch,** Camden, N. J. (See adv. index, end of book)
National Water Lift Co. ("National" for Residential Purposes), Kalamazoo, Mich.
**Platt Iron Works Co. (Automatic Pump & Receiver), Dayton, O.**
Quimby, Wm. E. (Inc.), 3 W 29th, New York
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**Weinman Pump Mfg. Co., Columbus, O.**
**WORTHINGTON, HENRY R. (Automatic Feed Pumps & Receivers),** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 9082— Pumps (Automobile)

(See also Pumps, Air, Tire; also Pumps, Circulating)

**AMERICAN STEAM PUMP WORKS,** Battle Creek, Mich. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO. (Tire & Tank), Seneca** Falls, N. Y. (See adv. index & branch offices, end of book)
Hawthorne Mfg. Co. ("Hawthorne" Four Cylinder), Bridgeport, Conn.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
**LUNKENHEIMER CO. (Hand, Oil &** Air), General Offices & Work: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Noera Mfg. Co., Waterbury, Conn.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Standard Sheet Metal Co., Passaic, N. J.
Turner Brass Works ("Turner" Bilge, Pressure, etc.), Sycamore, Ill.
**UNION STEAM PUMP CO. (Air Feed),** Battle Creek, Mich. (See adv. index, end of book)
Victor Electric Co. (Tire), 61 Market, Chicago, Ill.
**Ward Pump Co. ("Ward's" Double Cylinder Air), Rockford, Ill.**

## 9083— Pumps (Ball Valve)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9084— Pumps (Ballast)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
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Dean Bros. Steam Pump Works, Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwins**ville, N. Y. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9085— Pumps (Barrel)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Trahern Pump Co. (Rotary), Rockford, Ill.
**WILSON, F. CORTEZ & CO. (Tin),** 239 Lake, Chicago, Ill. (See adv. index, end of book)

## Pumps (Beer)

(See Pumps, Ale & Beer)

## 9086— Pumps (Belt-Driven)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book) Church, New York
**BEGGS, JAMES & CO., Liberty &** Church, New York.
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CAMERON, A. S. STEAM PUMP** Works, ft E 23rd, New York. (See adv. index & branch offices, end of book)
Carbondale Machine Co., Carbondale, Pa.
Columbiana Pump Co., Columbiana, O.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
De Laval Steam Turbine Co. (Centrifugal), Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dubois Iron Works, Dubois, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Van Wie Pump Co., Syracuse, N. Y.
Weinman Pump Mfg. Co., Columbus, O.
Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

## Pumps (Bicycle)

(See Pumps, Air Tire)

## 9087— Pumps (Bilge)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Blakeslee Mfg. Co. (Inc.), Du Quoin, Ill.
**ABENDROTH & ROOT MFG. CO.** (Spiral Riveted), Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.), Spiral or Straight Riveted), 39 Cortlandt, New York
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Bishop's, Wm. Sons (Brass & Copper), 18 James, New York
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Blakeslee Mfg. Co., Du Quoin, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Work, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co. (Centrifugal), Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Durkee, C. B. & Co. ("Wurk-E-Z-E"), 3 South. New York
Edson Mfg. Co., 255 Atlantic av, Boston, Mass.
Epping-Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Humphryes Mfg. Co., Mansfield, O.
Interstate Equipment & Engineering Co. (Portable Power Driven Trench Pump), 84 Van Buren, Chicago, Ill.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lobee Pump & Machinery Co., Buffalo, N. Y.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. "Myers" Low** Down), Ashland, O. (See adv. index & branch offices, end of book)
National Mfg. Co. ("Johnson"), Worcester, Mass.
Platt Iron Works Co., Dayton, O.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
Rumsey & Co. (Ltd.) (Ships, Main & Bilge), Seneca Falls, N. Y.
Sands, Alfred B. & Son Co., 242 Water, N. Y.
**THOMAS & SMITH (Inc.), ("Economy"** Electric), 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
Trimount Rotary Power Co. ("Trimount", Rotary Hand), 144 Pearl, Boston, Mass.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Wilcox, Crittenden & Co. ("Nutmeg"), Middletown, Conn.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

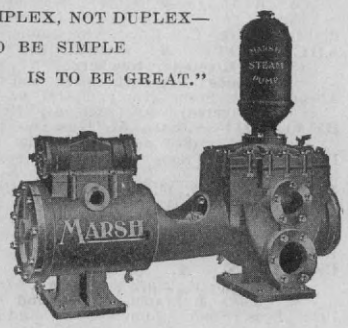
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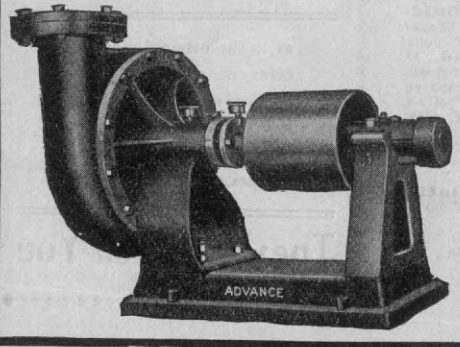
## 9088— Pumps (Boiler Feed)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Baragwanath, Wm. & Son, 1260 W Division, Chicago, Ill.
**BEGGS, JAMES & CO., Liberty &** Church, New York
Berry Engineering Co. ("Berry"), Chester, Pa.
Binghamton Mach. Works, Binghamton, N. Y.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Bishop, Wm. Sons (Brass & Copper), 205 South, New York
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co. ("Duplex"), Fitchburg, Mass.
Blakeslee Mfg. Co. (Inc.), Du Quoin, Ill.
Boyts, Porter & Co. (Double Plunger), Connelsville, Pa.
Buffalo Steam Pump Co., Buffalo, N. Y.
Burton & Johnson, Cleveland, O.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Canton Pump Co., Canton, O.
Clot & Christ Machine Co., San Francisco, Cal.
Columbus Steam Pump Works, Columbus, O.
Crawford & McCrimmon Co., Brazil, Ind.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Davis, I. B. & Son, Hartford, Conn.
De Laval Steam Turbine Co., Trenton, N. J.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**DEMING CO. (Hand and Power), Salem,** O. (See adv. index & branch offices, end of
Douglas, W. & B., Middletown, Conn. book)
Elgin Mfg. Co. ("Elgin" Geared), Elgin, Ill.
Epping-Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Great Lakes Engineering Works, Detroit, Mich.
Hall Steam Pump Co., Pittsburg, Pa.
Heisler Mfg. Co., St. Marys, O.
Hill Machine Co., Anderson, Ind.
**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Kelley, Benj. F. & Son (Economical Boiler & Tank Feed Pumps), 26 Cortlandt, New York
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Kruger & Blind Co., 511 Master, Phila., Pa.
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
McGowan, Jno. H. Co., Cincinnati, O.
Manistee Iron Works Co., Manistee, Mich.
Mason Regulator Co., Boston, Mass.
**MINNEAPOLIS STEEL & MACHIN-**ery Co. (Belt Driven or Geared), Minneapolis, Minn. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
National F'dry & Machine Co., Louisville, Ky.
National Foundry & Machine Co. ("Springers"), Connellsville, Pa.
National Steam Pump Co., Upper Sandusky, O.
Noye Mfg. Co. (Run by Belt), 50 Lakeview av, Buffalo, N. Y.
Pattin Bros. Co., Marietta, O.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Platt Iron Works Co. (Either Single, Duplex, Compound, Triplex or Fly Wheel), Dayton, O.
Pratt Engineering & Machine Co., Atlanta, Ga.
Prescott, Fred. M., Steam Pump Co., West Allis, Wis.
Reliance Machine & Tool Works, St. Louis, Mo.
Roberts, G. J. Co., Dayton, O.

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Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Scranton Steam Pump Co., Scranton, Pa.
Sherwood Mfg. Co. (Hand), Buffalo, N. Y.
Stewart Heater Co., 40 Norfolk av, Brooklyn, N. Y.
Trahern Pump Co. (On Bed Plate), Rockford, Ill.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Warren Steam Pump Co., Warren, Mass.
Weinman Pump Co., Columbus, O.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
Wheeler, C. H. Mfg. Co., Phila., Pa.
Wilson-Snyder Mfg. Co., Ross & Water, Pittsburgh, Pa.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Xander Machine & Supply Co. (Hand), Reading, Pa.

## 9089—Pumps (Boiler Testing)

Cleveland Steam Gauge Co., Cleveland, O.
**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Dake Engine Co., Grand Haven, Mich.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Henderer's, A. L. Sons, Wilmington, Del.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
**NATIONAL GAUGE CO., 168 8th, Brooklyn,** N. Y. (See adv. index, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 9090—Pumps (Boiler Washout)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9091— Pumps (Bracket)

Bartley, C. J. Co. ("Hartley"), Decatur, Ill.

## 9092— Pumps (Brass)

Barnes Mfg. Co., Mansfield, O.
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Bishop's, Wm. Sons, 205 South, New York
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Bridgeport Brass Co., Bridgeport, Conn.
Crook-Horner Co., 17 E Pratt, Baltimore, Md.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
**DEMING CO. (Also Iron), Salem, O.** (See adv. index & branch offices, end of book)
Douglas, W. B., Middletown, Conn.
Federal-Huber Co., Halsted & Fulton, Chicago, Ill.; & 244 5th av, New York
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Haydenville Co., Haydenville, Mass.
Humphryes Mfg. Co., Mansfield, O.
Illinois Malleable Iron Co., 1801 Diversey boul., Chicago, Ill.
**JENNINGS PUMP & DREDGE CO.,** 305 Michigan av, Chicago, Ill. (See adv. index, end of book)
Kirkup, Robt. & Co., 620 Lodge, Cincinnati, O
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Union Mfg. Co., New Britain, Conn.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9093— Pumps (Brewery)

(See also Pumps, Steam)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)**
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)


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## 9094— Pumps (Brine)

(See Also Pumps, Steam)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)**
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Co., 433 E 23d, New York. (See adv. index & branch offices, end of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co. (Centrifugal), Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwin,** N. Y. (See adv. index & branch offices end of book)
National F'dry & Machine Co., Louisville, Ky.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Quimby, Wm. E. (Inc.) (Circulating), 3 W 29th, New York
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. R'y., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.

## 9095— Pumps (Bucket)

Butler Mfg. Co., Kansas City, Mo.
Cincinnati Pump Co., Cincinnati, O.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Rich Pump Co., Cincinnati, O.
St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
Star Bucket Pump Co. ("Star"), St. Louis, Mo.

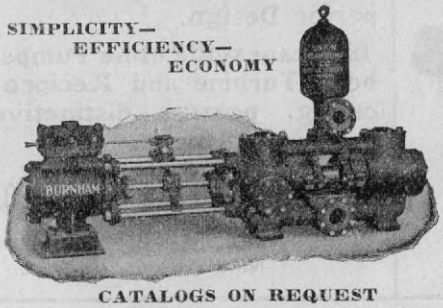
## 9095a— Pumps (Cam)

Trimount Rotary Power Co. ("Trimount", Rotary), 144 Pearl, Boston, Mass.


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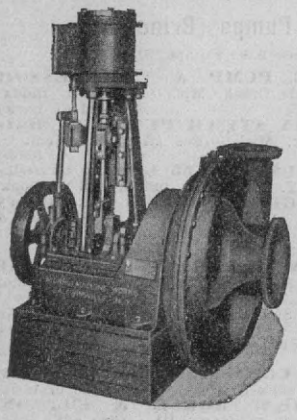
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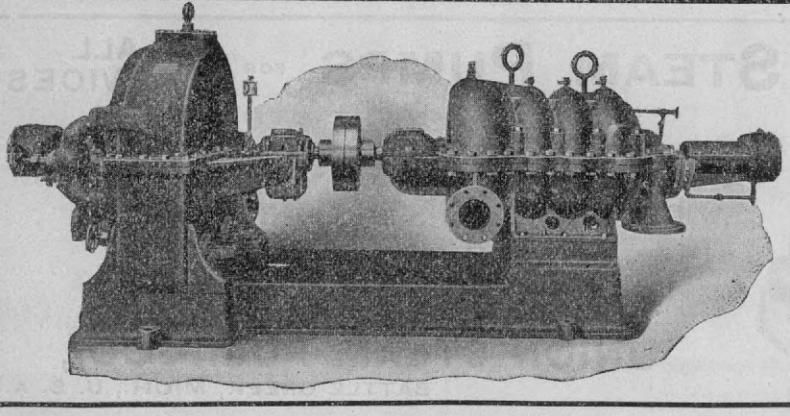
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## 9096– Pumps (Centrifugal)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Alberger Pump Co. (Steam or Motor Driven), 140 Cedar, New York
**ALLIS - CHALMERS CO. (Motor** Driven), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Barnes Mfg. Co., Mansfield, O.
Barry & Zecher Co. (For Tanners), Lancaster, Pa.
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**BEGGS, JAMES & CO., Liberty &** Church, New York
Bellows Falls Machine Co. (For Paper Mills), Bellows Falls, Vt.
Black-Clawson Co., Hamilton, O.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Bucyrus Co. (Dredging), So. Milwaukee, Wis.
Buffalo Gasoline Motor Co. ("Buffalo" Pump & Gasoline Engine Combined for Hotels, Summer Houses, etc.), Buffalo, N. Y.
Buffalo Steam Pump Co. (And "Cooley" Rotary Engine), Buffalo, N. Y.
Burroughs, Chas. Co., Newark, N. J.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Channon, H. Co. ("Channon"), 32 Market, Chicago, Ill.
Charleston Iron Works, Charleston, S. C.
Clot & Christ Machine Co., 940 Bryant, San Francisco, Cal.
Davis-Johnson Mfg. Co., 4518 Lexington, Chicago, Ill.
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Edwards, Jos. & Co. ("Cataract"), 412 Water, New York
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Emerson Mfg. Co., Lawrence, Mass.
Erie Pump & Engine Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fleischhauer, F. J. (Portable with Direct Connected Gasoline Engine for Excavations, etc.), The Rookery, Chicago, Ill.

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Fulton Mach. & Vise Co. ("Fulton". Belt & Motor Driven), Lowville, N. Y.
**Garratt, W. T. & Co., San Francisco, Cal.**
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Great Lakes Engineering Works (Large Capacity), Rivard & Detroit River, Detroit, Mich.
**Haslehurst, W. W., San Francisco, Cal.**
Humphreys Mfg. Co. (For Contractors), Mansfield, O.
Hunt, Rodney Machine Co., Orange, Mass.
Imperial Brass Mfg. Co. (Circulating), 444 S Jefferson, Chicago, Ill.
Jackson Byron Machine Works, San Francisco, Cal.
**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kansas City Hay Press Co., Kansas City, Mo.
Kingsford Foundry & Machine Works, Oswego, N. Y.
Krogh Mfg. Co., San Francisco, Cal.
Lathburg-D'Oliver Co., Morris bldg, Phila., Pa.
Lawrence Pump & Engine Co., Lawrence, Mass.
Layne & Bowler Co. of California ("Layne"), Los Angeles, Cal.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Maslin, Jno. & Son, 163 1st, Jersey City, N. J.
Moore & White Co., 15th & Lehigh av, Phila., Pa.
Morris, I. P. Co., Beach & Ball, Phila., Pa.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)



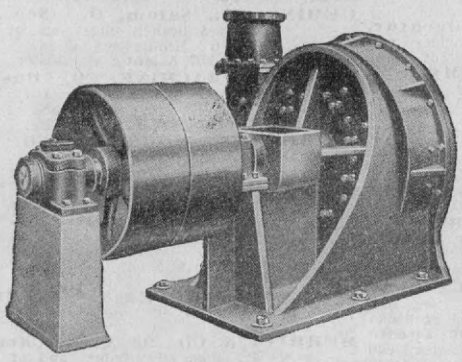
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Reliance Machine & Tool Works, St. Louis, Mo.
Rider-Ericsson Engine Co. ("Recco", Electric), 35 Warren, New York
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**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
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**Van Wie Pump Co., Syracuse, N. Y.**
Wetherill Bros. Machine Co., Chester, Pa.
**WHEELER CONDENSER & ENGI**neering Co. ("Wheeler" Improved), Cartaret, N. J. (See adv. index & branch offices, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Yeatman, Jno. A. & Co. (Eclipse), 13 1st, San Francisco, Cal.
Yuba Construction Co., Marysville, Cal.

## 9096a—Pumps (Centrifugal, Deep Well)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9097—Pumps (Centrifugal, Water Tank)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)

## 9098— Pumps (Chain)

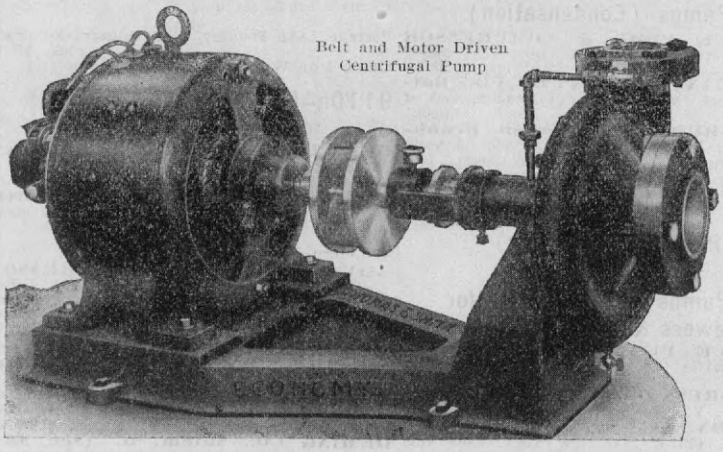
**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
Biggs, B. F. Pump Co., Lafayette, Ind.
Bushnell Pump Co., Bushnell, Ill.
Butler Mfg. Co., Kansas City, Mo.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Ferguson-Kegler Mfg. Co., Bellevue, Iowa
**GOULDS MFG. CO., (Chain Driven),** Seneca Falls, N. Y. (See adv. index and branch offices, end of book)
McDonald. A. Y. Mfg. Co., Dubuque, Ia.
Pfender Bros., Evansville, Ind.
Rich Pump Co., Cincinnati, O.
St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
Star Bucket Pump Co., St. Louis, Mo.
Temple Pump Co., Chicago, Ill.
Union Mfg. Co., New Britain, Conn.
Ward Pump Co. ("Ward"), Rockford, Ill.
White's, S. R. Sons, Norfolk, Va.
**WYCKOFF, A. & SON CO., Elmira, N. Y.** & Alexandria, La. (See adv. index, end of book)

## 9099—Pumps (Chemical Plant)

**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 9100—Pumps (Circulating)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Brennan Mfg. Co., Syracuse, N. Y.
Briscoe Mfg. Co., Detroit, Mich.
Brown & Sharpe Mfg. Co., Providence, R. I.
Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
Buffalo Steam Pump Co., Buffalo, N. Y.
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Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co. (Centrifugal), Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Essex, G. B. Brass Co., Detroit, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
Garvin Machine Co., Spring & Varick, New York
**GLOBE MACHINE & STAMPING CO.,** Cleveland, O. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Imperial Brass Mfg. Co., Chicago, Ill.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lipman Mfg. Co., Beloit, Wis.
Lobee Pump & Mach. Co., Buffalo, N. Y.
Locke Regulator Co., Salem, Mass.
McCord & Co. ("McKenna"), Old Colony bldg, Chicago, Ill.
Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.
Milwaukee Motor Co., Milwaukee, Wis.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
N. Y. Gear Works ("Ball"), 56 Greenpoint av, Brooklyn, N. Y.
Oberdorfer, M. L. Brass Co., Syracuse, N. Y.
Platt Iron Works Co. (Air & Circulating), Dayton, O.
Seitz, F. A. Co., Newark, N. J.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Westerfield Motor Co., Anderson, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 9101— Pumps (Cistern)

Aermotor Co., Campbell av, nr 12th, Chicago, Ill.
Althouse-Wheeler Co. (Close Top, Pitcher Spout), Waupun, Wis.
Athol Pump Co., Athol, Mass.
Barnes Mfg. Co., Mansfield, O.
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
Beckman Bros. ("B-B"), Des Moines, Ia.
Bellevue Pump Co., Bellevue, Ia.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
Columbiana Pump Co., Columbiana, O.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dempster Mfg. Co., Des Moines, Ia.
Douglas, W. & B., Middletown, Conn.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Field & Shorb Co. ("F. & S. Ideal"), Decatur, Ill.
Flint & Walling Mfg. Co., Kendallville, Ind.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hartley, C. J. Co., Decatur, Ill.
Hayes Pump & Planter Co., Galva, Ill.
Hess, Snyder Co., Massillon, O.
Humphreys Mfg. Co., Mansfield, O.
Ideal Pump & Mfg. Co., Green City, Mo.
Kewanee Foundry & Mfg. Co., Kewanee, Ill.
Love, M. A. Mfg. Co. (Force, etc.), Rockford, Ill.
McGowan, John H. Co., Cincinnati, O.
Moline Pump Co., Moline, Ill.
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
Peters Pump Co., Kewanee, Ill.
Porter, J. E. Co., Ottawa, Ill.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Trahern Pump Co., Rockford, Ill.
Union Mfg. Co., New Britain, Conn.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Ward Pump Co. (Force, etc.), Rockford, Ill.
Wilder, Sidney & Co., Holliston, Mass.
Wistrand Mfg. Co. ("Blue Star"), Galva, Ill.

## 9102— Pumps (Cog Gear)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"),** Ratchet), Ashland, O. (See adv. index & branch offices, end of book)

## 9103—Pumps (Combined Air & Circulating)

**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9104—Pumps (Combined Air & Feed)

**AMERICAN STEAM PUMP CO., Bat-**tle Creek, Mich. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9105— Pumps (Compound)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Bat-**tle Creek, Mich. (See adv. index, end of book)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9106—Pumps (Compression Tank)

**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 9107—Pumps (Condensation)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Bat-**tle Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
Chicago Pump Co. (Automatic Electric), 1071 Fulton, Chicago, Ill.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## Pumps (Condenser)

(See Condensers, Steam)

## 9108—Pumps (Contractors', for Sewers & Foundations)

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**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
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Columbiana Pump Co., Columbiana, O.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Erie Pump & Engine Works, Erie, Pa.
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**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kingsford Foundry & Machine Works, Oswego, N. Y.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Bald-**winsville, N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
Parker, A. A. (Mud, Sand, etc.), Waterford, N. Y.
Pulsometer Steam Pump Co., Whitehall bldg, New York
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**UNION ELEVATOR & MACHINE CO.** ("Union", Deaphragm Trench & Combined Pump & Engine, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Van Wie Pump Co., Syracuse, N. Y.

## 9109— Pumps (Copper)

Athol Pump Co., Athol, Mass.
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
Bishop's, Wm. Sons, 205 South, New York
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwins-**ville, N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Sands, Alfred B. & Son Co., Vesey, New York
Union Mfg. Co., New Britain, Conn.
Wilder, Sidney & Co., Holliston, Mass.
**WILSON, F. CORTEZ & CO., 239 Lake** Chicago, Ill. (See adv. index, end of book)

## 9110— Pumps (Cornish)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Griffith & Wedge Co., Zanesville, O.
Hendy, Joshua Machine Works, San Francisco, Cal.
Portage Lake Foundry & Machinery Co., Hancock, Mich.
Union Iron Works Co., San Francisco, Cal.

## 9110a—Pumps (Crank & Fly Wheel)

**DEAN BROS. STEAM PUMP WORKS,** Indianapolis, Ind. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9111— Pumps (Creamery)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
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**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
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**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)

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Humphreys Mfg. Co. (Porcelain, Enameled), Mansfield, O.
**MYERS, F. E. & BRO. ("Myers" Vertical),** Ashland, O. (See adv. index & branch offices, end of book)
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Van Wie Pump Co., Syracuse, N. Y.
**Wagener Steam Pump Works,** Canton, O.
**Weir & Craig Mfg. Co.,** 2439 Wallace, Chicago, Ill.

## Pumps (Deck)

(See Pumps, Ship & Deck)

## 9112– Pumps (Deep Well)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BEGGS, JAMES & CO., Liberty &** Church, New York
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Boyts, Porter & Co. (Vertical), Connellsville, Pa.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Challenge Co., Batavia, N. Y.
Clot & Christ Machine Co., 940 Bryant, San Francisco, Cal.
Columbiana Pump Co., Columbiana, O.
Columbus Steam Pump Works, Columbus, O.
Cook, A. D., Lawrenceburg, Ind.
Cook Well Co., St. Louis, Mo.
Corcoran, A. J. (Inc.), 4 John, New York.
Cook, A. D., Lawrenceburg, Ind.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**DEMING CO. (Hand and Power),** Salem, O. (See adv. index & branch offices, end of book)
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Douglas, W. & B., Middletown, Conn.
Epping-Carpenter Co., Pittsburg, Pa.
Evans, C. H. & Co., San Francisco, Cal.
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Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
Garratt, W. T. & Co., San Francisco, Cal.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Pittsburg, Pa.
Hartig Standard Gas Engine Co., Newark, N. J.
Heisler Mfg. Co. (High Duty), St. Marys, O.
Hess-Snyder Co., Massillon, O.
Hill Machine Co., Anderson, Ind.
Humphreys Mfg. Co., Mansfield, O.
Indiana Air Pump Co. (Air Lift), Indianapolis, Ind.
Jarecki Mfg. Co. (Brass), Erie, Pa. & Pittsburg, Pa.
Keystone Driller Co. ("Downie"), Beaver Falls, Pa.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
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McGowan, John H. Co., Cincinnati, O.
Manistee Iron Works Co., Manistee, Mich.
Mast, Foos & Co., Springfield, O.
**MYERS, F. E. & BRO. ("Myers" Cog** Gear), Ashland, O. (See adv. index & branch offices, end of book)
National Foundry & Machine Co., Louisville, Ky.
National Steam Pump Co., Upper Sandusky, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Peters Pump Co., Kewanee, Ill.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Platt Iron Works Co. (Powers), Dayton, O.
Red Jacket Mfg. Co. ("Red Jacket," Detached Cylinder, etc.), Davenport, Ia.
Reliance Machine & Tool Works, St. Louis, Mo.
Rider-Ericsson Engine Co. ("Reeco" Electric), 35 Warren, New York
Roth Mfg. Co. (Inc.) ("Columbus"), Indianapolis, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Trahern Pump Co. (Single & Double Acting Hand, etc.), Rockford, Ill.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Van Wie Pump Co., Syracuse, N. Y.
Warren Steam Pump Co., Warren, Mass.
Weinman Pump Mfg. Co. (Electric & Belt Driven), Columbus, O.
Wilder, Sidney & Co., Holliston, Mass.
Wood, P. K. Pump Co., Los Angeles, Cal.

## 9113– Pumps (Diaphragm)

Barnes Mfg. Co., Mansfield, O.
Bond, Harold L. Co. (Portable), 27 Coenties Slip, New York
Boston & Lockport Block Co., Boston, Mass.
Columbiana Pump Co., Columbiana, O.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Edson Mfg. Co. (Force Lift), Boston, Mass.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hildreth Mfg. Co., Lansing, Mich.
Humphreys Mfg. Co., Mansfield, O.
Lawler Regulator Co., 473 W B'way, New York
**McCOY, HENRY J. CO., 65 & 67 Dey, New York.** (See adv. index, end of book)
Platt Iron Works Co., Dayton, O.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 9114– Pumps (Distillers')

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9115–Pumps (Double-Acting)

**FAIRBANKS, MORSE & CO.** ("Eclipse", "Typhon" & "Torrent"), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**LEADER IRON WORK, Decatur,** Ill. (See adv. index & branch offices, end of book)
Love, M. A. Mfg. Co. ("Western," Hand or Windmill), Rockford, Ill.
Trahern Pump Co. (Hand or Windmill), Rockford, Ill.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Ward Pump Co. (Hand or Windmill), Rockford, Ill.

## 9116– Pumps (Drainage)

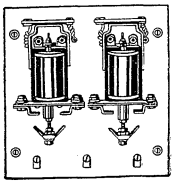
**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwins-**ville, N. Y. (See adv. index & branch offices, end of book)
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## Pumps (Dredging)

(See Pumps, Sand & Dredging)

## 9117– Pumps (Electric)

**ADVANCE PUMP & COMPRESSOR** Co. (Direct Connected), Battle Creek, Mich. (See adv. index, end of book)
Allentown Rolling Mills ("Aldrich"), Allentown, Pa.
**AMERICAN STEAM PUMP CO., Bat-**tle Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book
Automatic Rotary Pump Co., Bible House, New York
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**BIRDSBORO STEEL FOUNDRY &** Machine Co. ("Aldrich"), Birdsboro, Pa.
**BLAKE, GEO. F. MFG. CO. (Mine** Sinking), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Bleyle Electric Co. ("Economic"), 84 Cortlandt, New York
Boyts, Porter & Co., Connellsville, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Buffalo Steam Pump Co., Buffalo, N. Y.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)


Self-starters, float-switches and pressure regulators for motor-driven pumps.
THE CUTLER-HAMMER MFG. CO., Milwaukee.

Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
D'Olier Engineering Co., 121 S 11th, Phila., Pa.
Douglas, W. & B., Middletown, Conn., & 83 John, New York
Dow, Geo. E. Pumping Engine Co., San Francisco, Cal.
Dubois Iron Works, Dubois, Pa.
Economic Power & Pump Co., 84 Cortlandt, New York
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
Goodman Mfg. Co., 4834 S Halsted, Chicago, Ill.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Harris Pump & Supply Co., Pittsburg, Pa.
Holland Electric Pump & Engineering Co., 51 Cliff, New York
**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.;** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS** (Mine Sinking), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See ad. index & branch offices, end of book)
McGowan, John H. Co., Cincinnati, O.

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**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MORRIS MACHINE WORKS (Centrifugal, etc.),** Baldwinsville, N. Y. (See adv index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"** Bulldozer), Ashland, O. (See adv. index & branch offices, end of book)
New York Air Brake Co., 165 B'way, New York
**OTIS ELEVATOR CO., 17 Battery Pl.** New York. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
Quimby, Wm. E. (Inc.) (Direct Connected). 3 W 29th, New York
Rider-Ericsson Engine Co. ("Reeco"), 35 Warren, New York
Roberts, Geo. J. Co., Dayton, O.
Roots, P. H. & F. M. Co., Connersville, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Scranton Steam Pump Co., Scranton, Pa.
Taber Pump Co. (Portable), Buffalo, N. Y.
**THOMAS & SMITH (Inc.), ("Economy"),** 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Weinman Pump Mfg. Co., Columbus, O.
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Wilson-Synder Mfg. Co., Pittsburg, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Varwig Mfg. Co., Cincinnati, O.
Yeoman's Bros., 98 Jackson boul, Chicago, Ill.

## 9118—Pumps (Electric Air)

Acorn Engineering & Mfg. Co. (Automatic for Pumping Pure Air), 95 Liberty, New York
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Bishop-Babcock-Becker Co. ("Eureka" Automatic), Cleveland, O.
Cleveland Faucet Co. ("Champion" Automatic), Cleveland, O.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

## 9119—Pumps (Electric House)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 9120—Pumps (Electric Pressure)

Allentown Rolling Mills ("Aldrich" for Hydraulic Pumping Systems, etc.), Allentown, Pa.

## 9121— Pumps (Elevator)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
Blakeslee Mfg. Co., Du Quoin, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Burton & Johnson, Cleveland, O.
Butler Mfg. Co., Kansas City, Mo.
Canton-Hughes Pump Co., Wooster, O.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros. Stem Pump Works, Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Epping-Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
Garratt, W. T. & Co., San Francisco, Cal.
Goodman Mfg. Co., 48th pl & S Halsted, Chicago, Ill.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Pittsburg, Pa.
Heisler Mfg. Co., St. Marys, O.
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
McGowan. John H. Co., Cincinnati, O.
**MYERS, F. E. & BRO. (Bulldozer),** Ashland, O. (See adv. index & branch offices, end of book)
**National Foundry & Machine Co., Louisville, Ky.**
Platt Iron Works Co., Dayton, O.
**Prescott, Fred. M., Steam Pump Co.,** West Allis, Wis.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9122— Pumps (Engine)

**ADVANCE PUMP & COMPRESSOR** Co. (Engine Driven), Battle Creek, Mich. (See adv. index, end of book)
**MYERS, F. E. & BRO. (Bulldozer),** Ashland, O. (See adv. index & branch offices, end of book)

## 9123—Pumps (Fan & Stuff)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Bellows Falls Machine Co., Bellows Falls, Vt.
Beloit Iron Works (Stuff), Beloit, Wis.
Black-Clawson Co. ("B-C-Co Fan"), Hamilton, Ohio
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Clark, H. C. & Son Machine Co., Lee, Mass.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dillon Machine Co. ("Duplex" & "Triplex" Stuff), Lawrence, Mass.
Emerson Mfg. Co., Lawrence, Mass.
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
Noble & Wood Machine Co., Hoosick Falls, N. Y.
Rice-Barton & Fales Machine & Iron Co., Worcester, Mass.
Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.
Shartle Bros. Machine Co. (Multiple Fan), Middletown, O.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9124—Pumps (Filter Press)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Davidson, M. T. Co., 43 Keap, Brooklyn, N. Y.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Guild & Garrison, ft of S 10th, Brooklyn, N. Y.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Shriver, T. & Co., Harrison, N. J.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.

## 9125— Pumps (Fire)

(See also Pumps, Steam)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Aherns-Fox Fire Engine Co. ("Continental", Stationary), Cincinnati, O.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS (Centrifugal),** Aurora, Ill. (See adv. index & branch offices, end of book)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
De Laval Steam Turbine Co. (Centrifugal), Trenton, N. J.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Turide Co. ("Perfection"), Syracuse, N. Y.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9126—Pumps (Fire, Hand)

Chicago Fire Apparatus Co. ("Chicago Fire Dept. Style"), 22 5th av, Chicago, Ill.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 9127—Pumps (Fire Protection)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 9128—Pumps (Force & Lift)

Althouse-Wheeler Co. (Hand Force), Waupun, Wis.
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS (Power),** Aurora, Ill. (See adv. index & branch offices, end of book)
Athol Pump Co., Athol, Mass.
Baker Mfg. Co., Evansville, Wis.
Barnes Mfg. Co., Mansfield, O.
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Beckman Bros. ("B-B."), Des Moines, Ia.
Blymyer Iron Works Co. ("Crown," "Star" Hand & Power Double Acting), Spring Grove av & Terrace pl, Cincinnati, O.
Columbiana Pump Co., Columbiana, O.
Corcoran, Andrew J., 11 John, New York
Crook-Horner Co., 17 E Pratt, Baltimore, Md.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dempster Mfg. Co., Des Moines, Ia.
Douglas, W. & B., Middletown, Conn.
Dubois Iron Works, Dubois, Pa.
Duplex Mfg. Co., Superior, Wis.
Edwards, Jos. & Co., 416 Water, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Field Force Pump Co., Elmira, N. Y.
Flint & Walling Mfg. Co., Kendallville, Ind.
Geiser Mfg. Co., Waynesboro, Pa.
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Hanson & Rhodes, 157 W 29th, New York
Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
Haydenville Co., Haydenville, Mass.

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Hayes Pump & Planter Co. (House Windmill, etc.), Galva, Ill.
Hess-Snyder Co. ("Novelty"), Massillon, O.
Humphrey Machine Co. (Force), Keene, N. H.
Ideal Pump & Mfg. Co., Green City, Mo.
Humphreys Mfg. Co. (Force), Mansfield, O.
Kirkup, Robt. & Co., Cincinnati, O.
Klotz Machine Co. ("Waldkircher's" Oscillating Force Pump), Sandusky, O.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Love, M. A. Mfg. Co. (Iron Hand & Windmill Force, etc.), Rockford, Ill.
McDonald, A. Y. Mfg. Co., Dubuque, Iowa
McGowan, Jno. H. Co., Cincinnati, O.
McNab & Harlin Mfg. Co., 56 John, New York
Mast, Foos & Co. ("Buckeye"), Springfield, O.
Mietz & Weiss, 134 Mott, New York
**MYERS, F. E. & BRO. ("Myers"** Submerged Cylinder, Branch Pipe, "Gusher" Cog Gear, "Ashland" Ratchet Handle, Tubular Well, "Imperial" Siphon, House Force, "New Century" Low Down & "Faultless" Bulldozer, "Defiance"), Ashland, O. (See adv. index & branch offices, end of book)
Newark Brass Works ("Lawless"), Newark, N. J.
Peters Pump Co., Kewanee, Ill.
Porter, J. E. Co., Ottawa, Ill.
Powell, Wm. Co., Cincinnati, O.
Red Cross Mfg. Co., Bluffton, Ind.
Red Jacket Mfg. Co. ("Red Jacket," Single & Double Acting), Davenport, Ia.
Rumsey & Co. (Ltd.) (For All Purposes), Seneca Falls, N. Y.
Thomas Mfg. Co., Springfield, O.
Trahern Pump Co. (Iron Hand & Windmill Force, etc.), Rockford, Ill.
Union Mfg. Co., New Britain, Conn.
U. S. Water & Steam Supply Co., Kansas City, Mo.
Ward Pump Co. (Iron Hand & Windmill Force, etc.), Rockford, Ill.
Wilder, Sidney & Co., Holliston, Mass.
Wistrand Mfg. Co. ("Blue Star," Well, House & Windmill), Galva, Ill.

## 9129— Pumps (Fuel Oil)

**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way & Cedar, New York.** (See adv. index & branch offices, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GILBERT & BARKER MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO. (Self-Measuring),** 50 Church, New York (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt.** New York (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9129a—Pumps (Galvanized Steel)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)

## 9130— Pumps (Garage)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**DEMING, CO., Salem, O. (See adv.** index & branch offices, end of book)
**GARDNER GOVERNOR CO. ("Gardner"),** Quincy, Ill (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices,
**JACKSON MFG. CO. (Self-Measuring),** 50 Church, New York (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Trimount Rotary Power Co. ("Trimount", Rotary Hand & Power), 144 Pearl, Boston, Mass.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9131—Pumps (Gas Compressing)

(See also Pumps, Gas Main Force)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**CROWELL J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**National Foundry & Machine Co., Louisville, Ky.**
Roots, P. H. & F. M. Co., Connersville, Ind.

## 9131a—Pumps (Gas Engine Cooling)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)

## 9132—Pumps (Gas Engine Driven)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9133—Pumps (Gas Engine Starting)

Caldwell, E. R. & Co., Bradford, Pa.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Flickinger Iron Works (Inc.), Bradford, Pa.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9134—Pumps (Gas Fitters' Proving)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO. ("National"), 168** 8th, Brooklyn, N. Y. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 9135—Pumps (Gas Main, Force)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)

## 9136— Pumps (Gas Works)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9137— Pumps (Gasoline)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)**
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Field & Shorb Co. ("F & S Ideal"), Decatur, Ill.
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Hildreth Mfg. Co. (Direct Connected), Lansing, Mich.
**JACKSON MFG. CO. (Self-Measuring),** 50 Church, New York (See adv. index & branch offices, end of book)
Kewanee Water Supply Co. (For Pumping Water Supply), Kewanee, Ill.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Trimount Rotary Power Co. ("Trimount" Rotary Hand), 144 Pearl, Boston, Mass.
**UNION ELEVATOR & MACHINE CO.** (For Auto Garage), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## Pumps (Gauge Testing)

(See Gauge Testing Apparatus)

## 9138— Pumps (Geared)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9139—Pumps (Geared, Oil or Water)

(For Milling, Gear & Chucking Machines, Etc.)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Brown & Sharpe Mfg. Co. (For Oil Supply, to Cutting Tools on Lathes, Screw Machines, etc.), Providence, R. I.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Keystone Driller Co., Beaver Falls, Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.

## 9139a—Pumps (General Service)

**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)

## 9140—Pumps (Ham Preserving)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Silver Mfg. Co., Salem, O.

## 9141— Pumps (Hand)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BERGER MFG. CO. (Steel), Canton,** O. (See adv. index & branch offices, end of book)
Butler Co., Butler, Ind.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dempster Mfg. Co., Des Moines, Ia.
**FAIRBANKS, MORSE & CO. ("Eclipse" Anti-Freezing;** also "Femco" Three Way Anti-Freezing), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Kewanee Water Supply Co., Kewanee, Ill.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Love, M. A. Mfg. Co. (& Hand Force), Rockford, Ill.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Trahern Pump Co. (& Hand Force), Rockford, Ill.
Trimount Rotary Power Co. ("Trimount", Rotary), 144 Pearl, Boston, Mass. of book)
Ward Pump Co. (& Hand Force), Rockford, Ill.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

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## 9142—Pumps (High Pressure, Oil)

**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Sturgess Engineering Dept. of Ludlow Valve Mfg. Co., Troy, N. Y.

## 9142a—Pumps (High Service)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9143—Pumps (High Vacuum, for Packing Houses)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

## Pumps (Hot Air)

(See Engines, Pumping, Hot Air)

## 9144—Pumps (Household)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Kennedy, J. E. ("Little Giant" For Cleaning Waste Pipes, etc.), 41 Park row, New York

## 9145— Pumps (Hydraulic)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Bethlehem Steel Co., South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Bishop-Babcock-Becker Co. (Vacuum), 49th & Hamilton av, Cleveland, O.
**BLAKE, GEO. F. MFG. CO. (Pressure),** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
Blakeslee Mfg. Co., Du Quoin, Ill.
Boyts, Porter & Co., Connellsville, Pa.
Buckeye Iron & Brass Works, Dayton, O.
Buffalo Steam Pump Co., Buffalo, N. Y.
Burroughs, Chas. Co., Newark, N. J.
Bushnell, G. H. Press Co., Thompsonville, Conn.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Columbus Steam Pump Works, Columbus, O.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Davis-Johnson Mfg. Co., 4518 Lexington, Chicago, Ill.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
Douglass, W. & B., Middletown, Conn.
**DUDGEON, RICHARD, 24 Columbia, New** York. (See adv. index, end of book)
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**ELMES, CHAS. F. ENGINEERING** Works, c. Sangamon & Fulton, Chicago, Ill. (See adv. index, end of book)
Epping Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
French Oil Mill Machinery Co., Piqua, O.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Pittsburg, Pa.
Holyoke Machine Co. ("Hercules"), Holyoke, Mass.
Hydraulic Engineering Works, 218 N Jefferson, Chicago, Ill.
**Hydraulic Press Mfg. Co. (Hand & Power),** Mount Gilead, O.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kilby Mfg. Co., Cleveland, O.
**KNOWLES STEAM PUMP WORKS,** (Pressure), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Logemann Bros. Co. ("Logemann" High Pressure, Triples Compound), Milwaukee, Wis.
McGowan, John H. Co., Cincinnati, O.
Maslin, John & Son, 167 1st, Jersey City, N. J.
Mesta Machine Co., Pittsburg, Pa.
**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
National Foundry & Machine Co., Louisville, Ky.
**NATIONAL GAUGE CO., 168 8th, Brooklyn,** N. Y. (See adv. index, end of book)
National Steam Pump Co., Upper Sandusky, O.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Perrin, Wm. R. & Co., 46th & Loomis, Chicago, Ill.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
Robertson, J. & Co., 129 Water, Brooklyn, N. Y.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Southwark Foundry & Machine Co., Washington av & 5th, Phila., Pa.
Tranter Mfg. Co. ("McFuley"), 105 Water, Pittsburg, Pa.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York (See adv. index, end of book)
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
Westbrook's Elevator Co., Danville, Va.
Wheeler, C. H. Mfg. Co., Lehigh & N 16th, Phila., Pa.
Wilson-Snyder Mfg. Co., Pittsburg, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 9146—Pumps (Hydraulic Dredging)

**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Erie Pump & Engine Works (& Engine), Erie, Pa.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kingsford Foundry & Machine Works (Belt or Engine Driven, etc.), Oswego, N. Y.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
Van Wie Pump Co., Syracuse, N. Y.
Wetherill Bros. Machine Co., Chester, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 9147—Pumps (Hydraulic, Elevator Service)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**PRESCOTT, FRED M. STEAM PUMP** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.

## 9148—Pumps (Hydraulic Pressure)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., 115** B'way, New York. Works: East Cambridge, Mass.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9149—Pumps (Hydraulic Proving)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**DUDGEON, RICHARD, 24 Columbia, New** York. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Union Steam Pump Co., Battle Creek, Mich.

## 9150—Pumps (Hydraulic Test)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 9151—Pumps (Hydraulic Transmission)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**DUDGEON, RICHARD, 24 Columbia, New** York. (See adv. index, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)

## 9151a—Pumps (Hydro-Pneumatic)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 9152— Pumps (Intensifier)

**MORGAN ENGINEERING CO. (For Forging** & Bending), Alliance, O. (See adv. index & branch offices, end of book)

## 9153— Pumps (Irrigating)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Aermotor Co., Campbell av, nr 12th, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Appleton Mfg. Co., Batavia, N. Y.
Barnes Mfg. Co., Mansfield, O.
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
Blakeslee Mfg. Co., Du Quoin, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton Pump Co., Canton, O.
Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
Charter Gas Engine Co., Sterling, Ill.
Connersville Blower Co. (Rotary Pressure), Connersville, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Edwards, Jos. & Co., 414 Water, New York
Erie Pump & Engine Works (Mounted Portable), Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Haslehurst, W. W., San Francisco, Cal.
Humphreys Mfg. Co., Mansfield, O.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kingsford Foundry & Machine Works, Oswego, N. Y.
Krogh Mfg. Co., San Francisco, Cal.

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**LAIDLAW - DUNN - GORDON CO.,** E'way & Cedar, New York. (See adv. index & branch offices, end of book)
Layne & Bowler Co. ("Layne," Irrigation Well Pumps), Houston, Tex.
McGowan, Jno. H. Co., Cincinnati, O.
Mast, Foos & Co., Springfield, O.
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"** Bulldozer), Ashland, O. (See adv. index & branch offices, end of book)
National Foundry & Machine Co., Louisville, Ky.
Platt Iron Works Co., Dayton, O.
Red Jacket Mfg. Co., Davenport, Ia.
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
Robinson & Co. ("Shelton" Low-Lift), Richmond, Ind.
Roots, P. H. & F. M. Co. (Rotary Pressure), Connersville, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Samson Iron Works, Stockton, Cal.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
United Iron Works, Oakland, Cal.
United Steam Pump Co., Battle Creek, Mich.
United States Wind Engine & Pump Co., Batavia, Ill.
Van Wie Pump Co., Syracuse, N. Y.
Wagener Steam Pump Works, Canton, O.
Ward Pump Co., Rockford, Ill.
Wetherill Bros. Machine Co., Chester, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 9154— Pumps (Jet)

(See also Ejectors & Injectors, Boiler)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)

## 9155— Pumps (Juice)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Blymyer Iron Works Co. (Hand or Power), Cincinnati, O.
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Hill Machine Co., Anderson, Ind.
Platt Iron Works Co., Dayton, O.
Squier, Geo. L. Mfg. Co. (Power & Hand), Buffalo, N. Y.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.

## 9156—Pumps (Laboratory Vacuum)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

## 9157—Pumps (Lard Compound)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9158— Pumps (Liquor)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Central Stamping Co., 174 Fulton, New York.
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Judd & Leland Mfg. Co. ("Tornado" Beer), Clifton Springs, N. Y.

## 9159—Pumps (Low Service)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**MYERS, F. E. & BRO. ("Myers"** Bulldozer), Ashland, O. (See adv. index & branch offices, end of book)

## 9160—Pumps (Low Steam)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## Pumps (Lubricator)

(See Lubricators, Oil Pump)

## 9161— Pumps (Magma)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9162—Pumps (Manhole & Pile Sinking)

**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Edson Mfg. Co., Boston, Mass.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)

## 9163—Pumps (Marine, Power)

**DEMING CO., Salem, O., & 223 W** Jefferson, Chicago, Ill. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## Pumps (Marine, Steam)

(See Pumps, Steam)

## Pumps (Measuring)

(See Pumps, Oil, Self-Measuring)

## 9164— Pump (Milk)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9165— Pumps (Mine)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Aldrich Pump Dept. ("Aldrich," Triplex or Quintuplex, Cement Lined Electric), Allentown, Pa.
Allentown Rolling Mills ("Aldrich" Triplex Wood or Cement Lined), Allentown, Pa.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Blakeslee Mfg. Co., Du Quoin, Ill.
Boyts, Porter & Co. (Duplex Electric, Wood & Lead Lined), Connellsville, Pa.
Buffalo Steam Pump Co., Buffalo, N. Y.
Burton & Johnson, Cleveland, O.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Canton Pump Co., Canton, O.
Columbus Steam Pump Works, Columbus, O.
Connellsville Machine & Car Co., Connellsville, Pa.
Connersville Blower Co., Connersville, Ind.
Cook Well Co., St. Louis, Mo.
Crawford & McCrimmon Co. (Lead Lined, Acid Proof), Brazil, Ind.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
Dubois Iron Works, Dubois, Pa.
Economic Power & Pump Co., 84 Cortlandt, New York
Edson Mfg. Co. (& Prospecting), Boston, Mass.
Edward, Jos. & Co., 412 Water, New York
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index & branch offices, end of book)
Epping-Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)


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Fairmont Mining Mach'y Co., Fairmont, W. Va.
Franklin Iron Works, Port Carbon, Pa.
Frenier & Son, Rutland, Vt.
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
Garrett, W. T. & Co., San Francisco, Cal.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Goyne Steam Pump Co. (Goyne Bros., Props.) Works, Ashland, Pa.
Hall Steam Pump Co., Pittsburg, Pa.
Hill Machine Co., Anderson, Ind.
Imperial Iron Works (Electric & Steam), Duluth, Minn.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
Jackson, Byron Iron Works, San Francisco, Cal.
**JEANESVILLE IRON WORKS CO.** (General Cervice Pumps), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO. ("Jeffrey" Portable** Electric Plunger), Columbus, O. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kingsford Foundry & Machine Works, Oswego, N. Y.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Krogh Pump Mfg. Co., San Francisco, Cal.
McGowan, John H. Co., Cincinnati, O.
Manistee Iron Works Co., Manistee, Mich.
Maslin, John & Son, 167 1st, Jersey City, N. J.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
Mount Carmel Iron Works, Mount Carmel, Pa.
Mullen, John & Son, Shamokin, Pa.
**MYERS, F. E. & BRO. ("Myers" & "New Century" Bulldozer), Ashland, O.** (See adv. index & branch offices, end of book)
National Foundry & Machine Co. ("Springer"), Louisville, Ky.
National Foundry & Machine Co. (Wood Lined), Connellsville, Pa.
National Steam Pump Co., Upper Sandusky, O.
Nordberg Mfg. Co., Milwaukee, Wis.
Nye Steam Pump & Machinery Co., 567 W. Wash'n. Chicago, Ill.
Ottumwa Iron Works, Ottumwa, Iowa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Machine Tool Co. ("Curtis," Rotary), Pittsburg, Pa.
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
**PRESCOTT, FRED M. STEAM PUMP** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Pulsometer Steam Pump Co., Whitehall bldg., New York
Reliance Machine & Tool Works, St. Louis, Mo.
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
Roberts, Geo. J. Co., Dayton, O.
Roots, P. H. & F. M. Co., Connersville, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Scranton Steam Pump Co., Scranton, Pa.
**SNOW STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Weinman Pump Mfg. Co., Columbus, O.
Weir & Craig Mfg. Co., 2439 Wallace. Chicago, Ill
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
Wilson-Snyder Mfg. Co., Pittsburg, Pa.
Wood, P. K. Pump Co., Los Angeles, Cal.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9166– Pumps (Molasses)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9167– Pumps (Naphtha)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**JACKSON MFG. CO. (Self-Measur-**inb), 50 Church, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9168– Pumps (Oil)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
American Oil Pump & Tank Co., Dayton, O.
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Platt Iron Works Co. (Power), Dayton, O.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.

## 9169–Pumps (Oil Burning Outfits)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9170– Pumps (Oil Line)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**SNOW STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9171–Pumps (Oil, Motor Cycle)

Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.

## 9172–Pumps (Oil or Gas Well)

**CAMERON, A. S. STEAM PUMP** Works, 433 E 23d, New York. (See adv. index & branch offices, end of book)
Masseth Packer & Machine Works, Butler, Pa.

## 9173–Pumps (Oil Refinery)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index end of book)
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers" Low** Down), Ashland, O. (See adv. index & branch offices, end of book)

## 9174– Pumps (Oil Rotary)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
Bowser, S. F. Co. (Inc.), Fort Wayne, Ind.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
Gould & Eberhardt, Newark, N. J.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Nugent, Wm. W. & Co., 220 W Huron, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**ROCKWELL, W. S. CO., 50 Church,** New York. (See adv. index, end of book)
American Oil Pump & Tank Co., Dayton, O.

## 9175–Pumps (Oil, Self-Measuring)

Bowser, S. F. & Co., Fort Wayne, Ind.
Chapin, R. E. Mfg. Works ("Gurthie"), Batavia, N. Y.
Columbian Steel Tank Co., Kansas City, Mo.
Eastern Oil Tank Co. (Chas. E. Gee, Prop.), Lowell, Mass.
Enterprise Mfg. Co. of Pa., 3rd & Dauphin, Phila., Pa.
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
Haines Oil Measuring Pump Co., Harrisburg, Pa.
**JACKSON MFG. CO., 50 Church,** New York & Harrisburg Pa. (See adv. index end of book)
**KOVEN, L. O. & BRO., 50 Cliff,** New York. Works: Jersey City, N. J. (See adv. index, end of book)
National Oil Pump & Tank Co., Dayton, O.
Tokheim Mfg. Co. ("Dome"), Cedar Rapids, Iowa
Western Oil Pump & Tank Co., St. Louis, Mo.

## 9176–Pumps (Oil, Tin & Galvanized)

**AMERICAN CAN CO., 447 W 14th,** New York (See adv. index & branch offices, end of book)
Bowser, S. F. & Co., Fort Wayne, Ind.
Chapin, R. E. Mfg. Works ("Eclipse", "Ideal", "Handy"), Batavia, N. Y.
Delphos Mfg. Co., Delphos, Ohio
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hemp & Co., St. Louis, Mo.
National Enameling & Stamping Co., 81 Fulton, New York
**WILSON, F. CORTEZ & CO., 339** Lake, Chicago, Ill. (See adv. index, end of book)

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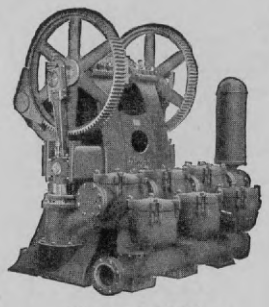


Figure 1283

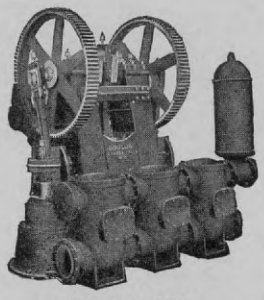


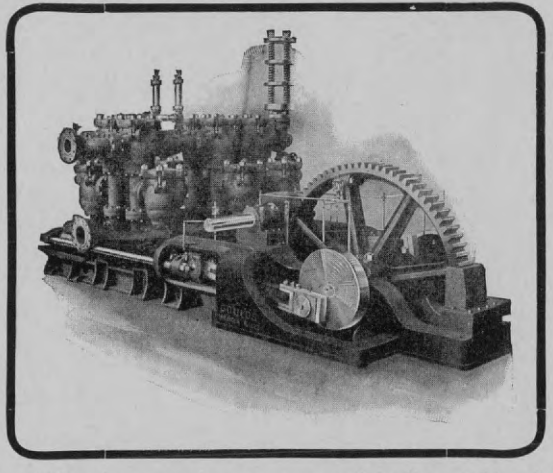
Figure 920




Figure 470

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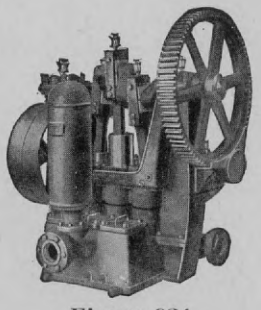


Figure 924

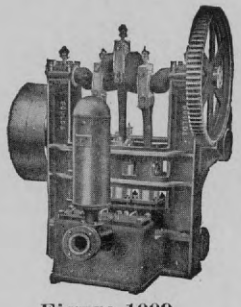


Figure 1009

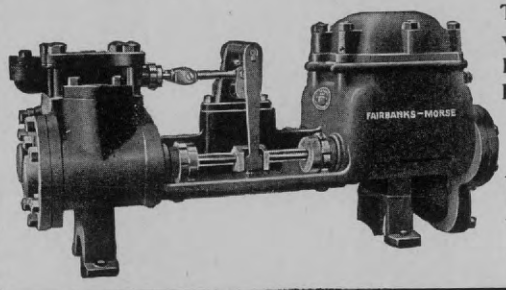


Figure 1525

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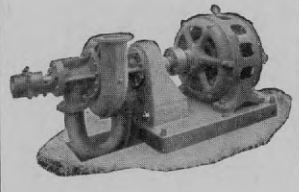
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# REGISTER


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## 9177—Pumps (Outside Packed)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**MYERS, F. E. & BRO. ("Myers"** Boiler Feed), Ashland, O. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9177a—Pumps (Packing House)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9178—Pumps (Paper Makers' Fan)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
Rumsey & Co. (Ltd.) (For Forcing & Raising Pulp, etc.), Seneca Falls, N. Y.

## 9179— Pumps (Paper Mill)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kingsford Foundry & Machine Works, Oswego, N. Y.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Moore & White Co., 15th & Lehigh av, Phila., Pa.
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Rice-Barton & Fales Machine & Iron Co., Worcester, Mass.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9179a—Pumps (Paper Mill Suction Box Vacuum)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)

## 9180—Pumps (Pitcher Spout)

Columbiana Pump Co., Columbiana, O.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Humphreys Mfg. Co., Mansfield, O.
Love, M. A. Mfg. Co., Rockford, Ill.
**MYERS, F. E. & BRO. ("Myers"** Brass Cylinder), Ashland, O. (See adv. index & branch offices, end of book)
Peters Pump Co., Kewanee, Ill.
Red Jacket Mfg. Co. ("Red Jacket"), Davenport, Ia.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Trahern Pump Co., Rockford, Ill.
Ward Pump Co., Rockford, Ill.

## 9181— Pumps (Plantation)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9182— Pumps (Plumbers)'

Barnes Mfg. Co., Mansfield, O.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Humphreys Mfg. Co., Mansfield, O.
Kirkup, Robert & Co., Cincinnati, O.
Knapp Mfg. Co., 20 Warren, New York
Powell, Wm. Co., Cincinnati, O.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Union Mfg. Co., New Britain, Conn.
Wolverine Brass Works ("Plumbers Friend"), Grand Rapids, Mich.

## 9183—Pumps (Plumbers' Force)

Boekel, Wm. & Co. (Inclined Air), 518 Vine, Phila, Pa.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Elkhart Rubber Works (Rubber), Elkhart, Ind.
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Perkes, Chas. (Est. of), 625 Arch, Phila., Pa.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

## 9184— Pumps (Plunger)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Boyt's, Porter & Co. ("Yough", Wood Lead Lined), Connellsville, Pa.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton Hughes Pump Co., Wooster, O.
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9185 Pumps (Pneumatic)

(See also Pneumatic Pumping Systems)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO. ("Perry"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fort Wayne Engineering & Mfg. Co. ("Paul"), Fort Wayne, Ind.
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
Harris Air Pump Co., Indianapolis, Ind.
**INGERSOLL-RAND CO., 11 B'way, New York.** (See adv. index & branch offices, end of book)
Latta-Martin Pump Co., Hickory, N. C.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
United Pump & Power Co. ("Perry"), 84 Van Buren, Chicago, Ill.

## 9185a—Pumps (Pneumatic Displacement)

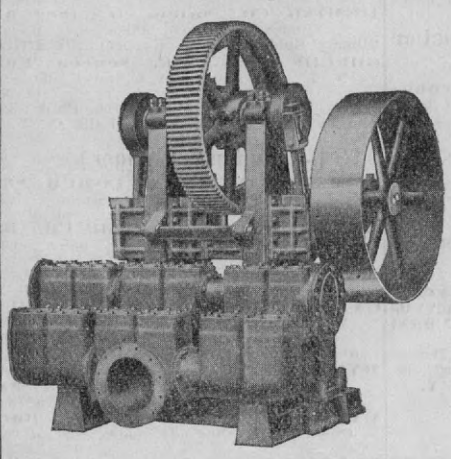
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## 9186— Pumps (Power)

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**ALLIS-CHALMERS CO. ("Duplex"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)

Bessemer Gas Engine Co., Grove City, Pa.

**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.

Buffalo Steam Pump Co., Buffalo, N. Y.

**CAMERON, A. S. STEAM PUMP** Works: 433 7 23d, New York. (See adv. index & branch offices, end of book)

Canton-Hughes Pump Co., Wooster, O.

Challenge Co., Batavia, Ill.

Clot & Christ Machine Co., San Francisco, Cal.

Columbiana Pump Co., Columbiana, O.

Columbus Steam Pump Works, Columbus, O.

Connersville Blower Co., Connersville, Ind.

**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

Davidson, W. T., 43 Keap, Brooklyn, N. Y.

Davis, I. B. & Son, Hartford, Conn.

**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)

Dubois Iron Works (High Duty Triplex), Du-bois, Pa.

Elgin Mfg. Co., Elgin, Ill.

Evans, C. H. & Co., San Francisco, Cal.

**FAIRBANKS, MORSE & CO. ("Mist"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Foster Pump Works (Electric & Belt Driven), 36 Bridge, Brooklyn, N. Y.

French Oil Mill Machinery Co. (High & Low Pressure for Cottonseed & Linseed Oil Mills, etc.), Piqua, O.

Fulton Machine & Vise Co., Lowville, N. Y.

**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)

Harris Pump & Supply Co., 320 2d av, Pitts-burg, Pa.

Heisler Mfg. Co., St. Marys, Mo.

Hill Machine Co., Anderson, Ind.

**HOOVEN, OWENS, RENTSCHLER** Co., Hamilton, O. (See adv. index & branch offices, end of book)

Jarvis Engine & Machine Works ("Jarvis"), Lansing, Mich.

**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

La Vergne Pump & Machine Co. (Portable Gasoline), Newark, N. J.

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

Lucas Pump Co. ("Lucas" Double Acting Triplex), Dayton, O.

Mast, Foos & Co. ("Buckeye" Force), Spring-field, O.

Mesta Machine Co., Pittsburg, Pa.

**MYERS, F. E. & BRO. ("Myers"** Bulldozer & Hydro-Pneumatic), Ashland, Ohio. (See adv. index & branch offices, end of book)

National Steam Pump Co., Upper Sandusky, O.

New Era Gas Engine Co., Dayton, O.

Peters Pump Co., Kewanee, Ill.

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O.

Quimby, Wm. E. (Inc.), 3 W 29th, New York

Roots, P. H. & F. M. Co., Connersville, Ind.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Scranton Steam Pump Co., Scranton, Pa.

Smedley Steam Pump Co., Dubuque, Ia.

Stewart Heater Co., 40 Norfolk av, Buffalo, N. Y.

Trimount Rotary Power Co. ("Trimount," Rotary), 144 Pearl, Boston, Mass.

**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

**Walker Mfg. Co. (Up to 1,000,000 Gallons** Daily), Fenton, Mich.

Warren Steam Pump Co., Warren, Mass.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Weinman Pump Mfg. Co. (Geared, Electric, Belt Driven, etc.), Columbus, O.

## Pumps (Pressure)

(See Pumps, Steam)

## 9187—Pumps (Pressure Tank)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

**MYERS, F. E. & BRO. ("Myers"** Hydro-Pneumatic), Ashland, O. (See adv. index & branch offices, end of book)

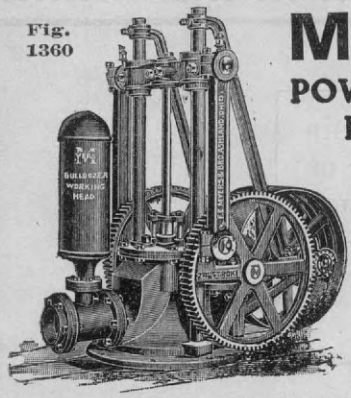
## 9188—Pumps (Private Water Works)

**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)


Fig. 1360

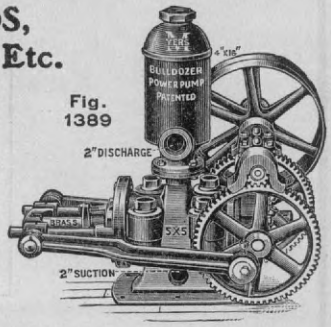


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## POWER PUMPS, WORKING HEADS, PUMPING JACKS, CYLINDERS, Etc.

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Fig. 1389




## F. E. MYERS & BRO.

ASHLAND PUMP and HAY TOOL WORKS

ASHLAND, OHIO


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**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY & CONstruction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)**
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)

## 9189– Pumps (Propeller)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
Wood, P. K. Pump Co. ("Wood," Horizontal, for Tailings, Cyanide Solution, Placer Mining & Dredging), Los Angeles, Cal.

## 9190–Pumps (Pulp Grinder)

**DEMING Co., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)

## 9190a– Pumps (Purifying)

**MYERS, F. E. & BRO. ("Myers"** Aerator), Ashland, O. (See adv. index & branch offices, end of book)

## 9191– Pumps (Quarry)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle Creek, Mich. (See adv. index, end of book)**
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)**
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way, New** York. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"** & "Century" Low Down), Ashland, O. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9192–Pumps (Railroad Force)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers"** Bulldozer), Ashland, O. (See adv. index & branch offices, end of book)
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

## 9193–Pumps (Ratchet Handle)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 9194–Pumps (Ratchet Head)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers" Cog** Gear), Ashland, O. (See adv. index & branch offices, end of book)

## 9195– Pumps (Receiver)

**ADVANCE PUMP & COMPRESSOR** Co. (Automatic), Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle Creek, Mich. (See adv. index, end of book)**
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9196–Pumps (Reciprocating)

Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Workks: 433 E 23d, New York. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)

## 9197– Pumps (Reclamation)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
De Laval Steam Turbine Co., Trenton, N. J.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
United Iron Works, Oakland, Cal.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 9198– Pumps (Regulating)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**MYERS, F. E. & BRO. ("Myers"** Regulator), Ashland, O. (See adv. index & branch offices, end of book)

## 9199– Pumps (Rotary)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
**Bagley & Sewall Co. (And Reciprocating), Watertown, N. Y.**
Barnes Mfg. Co., Mansfield, O.
**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
Blackmer Rotary Pump, Power & Mfg. Co., Petoskey, Mich.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**Brewster Engineering Co. ("Brewster" Water)** 50 Church, New York
Connersville Blower Co. (Positive Pressure), Connersville, Ind.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index. end of book)
Davis-Johnson Mfg. Co., 4518 Lexington, Chicago, Ill.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster Pump Works (Also Rotary Hand), 36 Bridge, Brooklyn, N. Y.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Harrisonville Pump & Fdry. Co. (Impelling), Harrisonville, Mo.
Hartford Machine Screw Co., Hartford, Conn.
Hersey Mfg. Co. (Soap), 314 W 2d, Boston, Mass.
Hill-Tripp Pump Co. (Vertical Thrust), Anderson, Ind.
Holyoke Machine Co., Holyoke, Mass.
Humphrey Machine Co., Keene, N. H.
Hunt, Rodney Machine Co. (Fire), Orange, Mass.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Lobee Pump & Machinery Co., Buffalo, N. Y.
**MACOMBER & WHYTE ROPE CO.** ("Curtis," Especially for Mines), 507 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)
Perrin, Wm. R. & Co., 46th & Loomis, Chicago, Ill.
Pittsburg Machine Tool Co. ("Curtis", Mine), Pittsburg, Pa.
Rock River Machine Co., Janesville, Wis.
Roots, P. H. & F. M. Co. (Positive Pressure), Connersville, Ind.
Ross, Chas. & Son Co. ("Ross" for White Lead & Putty), 148 Classon av, Brooklyn, N. Y.
Rumsey & Co. (Ltd.) (Force, Fire & Oil Service), Seneca Falls, N. Y.
Southwark Foundry & Machine Co., Phila., Pa.
Taber Pump Co. (Beer Circulating & Racking, etc.), Buffalo, N. Y.
Topping, Howell, 50 Church, New York
Trahern Pump Co. (Hand & Power), Rockford, Ill.
Trimount Rotary Power Co. ("Trimount," Hand & Power), 144 Pearl, Boston, Mass.

## Pumps (Rotary Oil)

(See Pumps, Oil Rotary)

## 9200–Pumps (Rotative Dry Vacuum)

**BEACH-RUSS CO., 55 Green, Brook-**lyn, N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of ook)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 9201–Pumps (Sand Feed Stone-Sawing)

Frenier & Son, Rutland, Vt.

## 9202–Pumps (Sand & Dredging)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BEGGS, JAMES & CO., Liberty &** Church, New York
Buffalo Steam Pump Co., Buffalo, N. Y.
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
Erie Pump & Engine Works, Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Jackson, Byron Machine Works, San Francisco, Cal.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Larkin & Co. ("Palm's" Combination Sand Pump & Bailer), Butler, Pa.

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**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY & CONstruction Co.,** 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Potts, C. & A. & Co., Indianapolis, Ind.
United Iron Works, Oakland, Cal.
Van Wie Pump Co., Syracuse, N. Y.
Wetherill Bros. Machine Co., Chester, Pa.
**Wood, R. D. & Co.,** 400 Chestnut, Phila., Pa.

## 9203— Pumps (Screw)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## Pumps (Self-Measuring)

(See Pumps, Oil, Self-Measuring)

## 9205—Pumps (Service & Drip)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)
**Phoenix Meter Co., Camden, N. J.**

## 9206— Pumps (Sewerage)

**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., 115** B'way, New York; Works: East Cambridge, Mass.
Canton-Hughes Pump Co., Wooster, O.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**ELLICOTT MACHINE CO., Bush &** Severn, Baltimore, Md. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**THOMAS & SMITH (Inc.), ("Economy"** Electric), 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Wetherill Bros. Machine Co., Chester, Pa.

## 9207—Pumps (Ship & Deck)

**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of
Barnes Mfg. Co., Mansfield, O. book)
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**Bishop's, Wm. Sons (Brass Deck Fire), 18 James, New York**
Columbiana Pump Co., Columbiana, O.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Humphreys Mfg. Co., Mansfield, O.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Marine Mfg. & Supply Co., 158 South, New York
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO. (Portable),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
**O'Crowley, J. J., 45 Hudson, Jersey City, N. J.**
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Sands, Alfred B. & Son, 20 Vesey, New York
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Van Duzen, E. W. Co., Cincinnati, O.

## 9208—Pumps (Single Cylinder)

**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9209— Pumps (Sinking)

Allentown Rolling Mills (Electric, Vertical, Triplex, etc.), Allentown, Pa.
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Boyts, Porter & Co., Connellsville, Pa.
Buffalo Steam Pump Co., Buffalo, N. Y.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
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Clot & Christ Machine Co., 940 Bryant, San Francisco, Cal.
Dean Bros. Steam Pump Wks., Indianapolis, Ind.
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Hendy, Joshua Machine Works, San Francisco, Cal.
Jackson, Byron Iron Works, San Francisco, Cal.
**JEANESVILLE IRON WORKS CO.** (Steam or Electric), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Krogh Pump Mfg. Co., San Francisco, Cal.
Luitwieler Pumping Engine Co., Rochester, N. Y.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.
National Steam Pump Co., Upper Sandusky, O.
Platt Iron Works Co., Dayton, O.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Union Iron Works Co., San Francisco, Cal.
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9210— Pumps (Size)

Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Lowell Machine Shop, Lowell, Mass.

## 9210a— Pumps (Slurry)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)

## 9211— Pumps (Slush)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9212— Pumps (Soapmakers')

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)

## 9213— Pumps (Spray)

Acme Asbestos Covering & Supply Co. ("Ideal", "Model", "Etna" for Paint Spraying), 1840 Austin av, Chicago, Ill.
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Barnes Mfg. Co. (Barrel & Bucket), Mansfield, Ohio
**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
Bean Spray Pump Co. (Bean Spray), San Jose, Cal.
**BERGER MFG. CO., THE (House &** Farm), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Brandt Mfg. Co. (Compressed Air), Minneapolis, Minn.
Brown, E. C. Co., Rochester, N. Y.
Channell Chemical Co. (Chemical), 1534 W Lake, Chicago, Ill.
Childs, Chas. H. & Co. (Electric), Utica, N. Y.
Columbiana Pump Co., Columbiana, O.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end
De Clercy Bros., Cazenovia, N. Y. of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Doughton, H. W., Moorestown, N. J.
Douglas, W. & B., Middletown, Conn.
Eureka Mower Co. (Atomizers), Utica, N. Y.
Everitt, J. A. (Sprayers & Powder Distributors), Indianapolis, Ind.
**FAIRBANKS, MORSE & CO. ("Mist."** & Horizontal Triplex, Barrel, etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Field Force Pump Co. ("Empire King, Garfield, Knapsack, Red Jacket & Aroostock," Potato Sprayer, "Orchard Monarch"), Elmira, N. Y.
Friend Mfg. Co., Gasport, N. Y.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hardie Mfg. Co., Hudson, Mich.
Hess, Snyder Co., Massillon, O.
Holl Mfg. Co., Buffalo, N. Y.
Humphreys Mfg. Co., Mansfield, O.
Hurst, H. L., Mfg. Co. (Combination Potato & Orchard, Horse & Wheelbarrow Power), Canton, O.
Judd & Leland Mfg. Co. ("Cyclone"), Clifton Springs, N. Y.
Kohler, F. E. & Co. ("Johnson"), Canton, O.
McCormick Mfg. Co. ("Nixon-Climax" for Lawn & Field, Dayton, O.
McDonald, A. Y. Mfg. Co., Dubuque, Iowa
Mast, Foos & Co. ("Buckeye"), Springfield, O.
Morrill & Morley ("Eclipse & Eureka"), Benton Harbor, Mich.
Morris Sprayer Co. ("Sure Spray"), Rochester, N. Y.
**MYERS, F. E. & BRO. ("Little** Giant," "Imperial" Lever Bucket, "Myers Improved," "Myers O. K.," "Myers Perfect," "Myers" Whitewashing & Painting Machine, "Myers" Hydraulic, "Myers" Cog Gear, ("Myers Century," "Myers Pitman" Power, "Myers" Back Geared, "Myers" Fountain, "Myers Faultless," Defiance," "Double Cylinder" & "Ratchet Handle"), Ashland, O. (See adv. index & branch offices, end of book)
Niagara Sprayer Co., Middleport, N. Y.
Peppler, Thos. (Sprayers), Hightstown, N. J.
Porter, J. E. Co., Ottawa, Ill.
Potato Implement Co. (Knapsack Sprayers, Atomizers & Powder Guns), Traverse City, Mich.
Red Cross Mfg. Co., Bluffton, Ind.
Rippley Hardware Co. (Sprayers), Grafton, Ill.
Rome Bicycle Mfg. Co., Rome, N. Y.
Rumsey & Co. (Ltd.) (Force & Knapsack), Seneca Falls, N. Y.
Smith, D. B. & Co., Utica, N. Y.
Stahl, Wm. Sprayer Co., Quincy, Ill.
Standard Stamping Co. ("Standard"), Marysville, O.
Stevens & Co., 373 B'way, New York
Trahern Pump Co. ("Little Giant"), Rockford, Ill.
Union Steam Pump Co. (Fruit Spraying), Battle Creek, Mich.

## 9214—Pumps (Spray, Barrel)

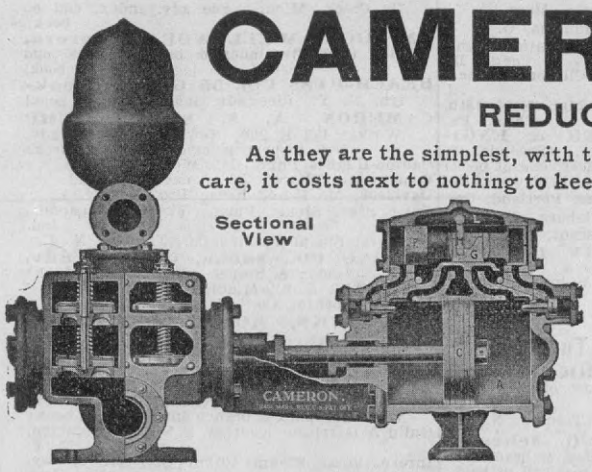
Barnes Mfg. Co. ("Monarch"), Mansfield, O.
Bean Spray Pump Co., Cleveland, O.
Beck Power Sprayer Co., Lansing, Mich.
Brandt Mfg. Co. ("Wide World"), Minneapolis, Minn.

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# CAMERON PUMPS

## REDUCE PUMPING COSTS




As they are the simplest, with the fewest working parts, and require the least attention and care, it costs next to nothing to keep Cameron Pumps in perfect working condition. Designed and built in the light of over half a century of experience, they give many years of excellent service in situations that would quickly wreck the "ordinary" pump.

*Catalog No. 50, sent on request, contains valuable information for Engineers and Pumpmen.*

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Church Bros., Adrian, Mich. N. Y.
Columbiana Pump Co., Columbiana, O.
Crestline Mfg. Co. ("Sunshine"), Crestline, O.
**DEMING CO. ("Captain," "Century,"** "Gem," "Granger," "Peerless," "Simplex"), Salem, O. (See adv. index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Field Force Pump Co. ("Eagle," "Empire King," "Empire Queen," "Junior Empire"), Elmira, N. Y.
Friend Mfg. Co., Gasport, N. Y.
**GOULDS MFG. CO. ("Fruitall," "Po**mona," "Savelot," "Standard"), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hardie Mfg. Co., Hudson, Mich.
Humphryes Mfg. Co. ("Protector"), Mansfield,
LeRoy Plow Co., LeRoy, N. Y. O.
McCormick Mfg. Co. ("Nixon"), Dayton, O.
Mast. Foos & Co. ("Buckeye"), Springfield, O.
Morrill & Morley, Benton Harbor, Mich.
Morris Sprayer Co. ("Sure-Spray"), Rochester, N. Y.
**MYERS, F. E. & BRO. ("Century,"** "Perfect"), Ashland, O. (See adv. index & branch offices, end of book)
Rochester Spray Pump Co., Rochester, N. Y.
Rumsey & Co. (Ltd.) ("Florida," "Superior." "Watch"), Seneca Falls, N. Y.
Stahl, Wm. Sprayer Co. ("Excelsior"), Quincy, Ill.

## 9215—Pumps (Spray, Bucket)

Barnes Mfg. Co. ("Perfection"), Mansfield, O.
Bean Spray Pump Co., Cleveland, O.
Brown. E. C. Co. ("Auto-Spark"), Rochester,
Bushnell Pump Co., Bushnell, Ill. N. Y.
Chandler Pump Co. ("Hawkeye"), Cedar Rapids,
Church Bros., Adrian, Mich. Iowa
Crestline Mfg. Co., Crestline, O.
**DEMING CO. ("Perfect Success,"** "Prize," "Success"). Salem, O. (See adv. index & branch offices, end of book)
Douglas, W. & B. ("Aquapult," "Aquarius"), Middletown, Conn.
Field Force Pump Co. ("Little Gem"), Elmira, N. Y.
**GOULDS MFG. CO. ("Bordeau,"** "Premier"), Seneca Falls, N. Y. (See adv. index & brnach offices, end of book)
Hardie Mfg. Co., Hudson, Mich.
Holl Mfg. Co. ("Novelty"). Buffalo, N. Y.
Humphryes Mfg. Co. ("Hydroject," "Ideal"), Mansfield, O.
McCormick Mfg. Co. ("Economy"), Dayton, O.
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
Morris Sprayer Co. ("Sure-Spray"), Rochester, N. Y.
**MYERS, F. E. & BRO. ("Defiance,"** "Imperial," "Little Giant." "Perfect"), Ashland, O. (See adv. index & branch offices, end of book)
Rochester Spray Pump Co., Rochester, N. Y.
Stahl, Wm. Sprayer Co. ("Excelsior"), Quincy, Ill.

## 9216— Pumps (Station)

**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. dex & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9217— Pumps (Steam)

**CAMERON, A. S. STEAM PUMP** Works, ft E 23d, New York. (See adv. index & branch offices, end of book)
**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices. end of book)
**AMERICAN STEAM PUMP CO., Bat**tle Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Aultman Steam Pump Co., Fairmont, W. Va.
**BEGGS, JAMES & CO., Liberty &** Church, New York
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
Blakeslee Mfg. Co., DuQuoin, Ill.
Boyts, Porter & Co. ("Yough"), Connellsville, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index. end of book)
Buffalo Steam Pump Co., Buffalo, N. Y.
Burton & Johnson, Cleveland, O.
Caldwell. E. E. & Co., Bradford, Pa.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d. New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Canton Pump Co., Canton, O.
Carthage Fdry & Machine Co., Carthage, Mo.
Codd. E. J. Co. (Duplex), Baltimore, Md.
Columbus Steam Pump Works, Columbus, O.
Connellsville Machine & Car Co. ("Lafayette"), Connellsville, Pa.
Cook, A. D., Lawrenceburg, Ind.
Cook Well Co., St. Louis, Mo.
Clot & Christ Machine Co., San Francisco, Cal.
Crawford & McCrimmon Co., Brazil, Ind.
Crown Iron Works Co., Minneapolis, Minn.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros. Steam Pump Wks., Indianapolis, Ind.
**DEANE STEAM PUMP CO. (High &** Low Pressure), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
Dubois Iron Works ("Simplex"), Dubois, Pa.
Economic Power & Pump Co., 84 Cortlandt, New York
Edwards, Jos. & Co., 412 Water, New York
Emerson Steam Pump Co. (Steam Vacuum), Alexandria, Va.
Epping-Carpenter Co., Pittsburg, Pa.
Evans, C. H. & Co. ("Thomson & Evans"), San Francisco, Cal.
**FAIRBANKS, MORSE & CO. (Du**plex), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster Pump Works ("Hardick"), 36 Bridge, Brooklyn, N. Y.
Furness Bros. Co., 172 N Desplaines, Chicago, Ill.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
Garratt, W. T. & Co., San Francisco, Cal.
**GODFREY-KEELER CO., 70 War**ren, New York (See adv. index, end of book)
Goyne Steam Pump Co. (Goyne Brs., Props.), Ashland, Pa.
Grant Iron Works, Mahanoy City, Pa.
Great Lakes Engineering Works, Detroit, Mich.
Guild & Garrison, Kent av. & S. 10th, Brooklyn, N. Y.
Hall Steam Pump Co., Pittsburg, Pa.
Heisler Mfg. Co., St. Marys, O.
Hendy, Joshua Machine Works, San Francisco,
Hill Machine Co., Anderson, Ind. Cal.
Hubbard's, Norman Sons ("Niagara"), 265 Water, Brooklyn, N. Y.
International Steam Pump Co., 115 B'way, New York
Jackson, Byron Machine Wks., San Francisco, Cal.
Jamieson, M. W. & Co., Warren, Pa.
**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Keystone Driller Co., Beaver Falls, Pa.
Kingsford Fdry. & Mach. Wks., Oswego, N. Y.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Kruger & Blind Co., 511 Master, Phila, Pa.
Leyner, J. Geo. Engineering Works Co., Littleton, Colo.

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McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
McGowan, John H. Co., Cincinnati, O.
Manistee Iron Works Co. (Marine), Manistee, Mich.
Maslin, John & Son, 167 1st, Jersey City, N. J.
Mesta Machine Co., Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)
Mullen, Jno. & Son, Shamokin, Pa.
National Foundry & Machine Co. ("Reilly"), Louisville, Ky.
National Foundry & Machine Co. ("Springers"), Connellsville, Pa.
National Steam Pump Co. (High Duty), Upper Sandusky, O.
Nordberg Mfg. Co., Milwaukee, Wis.
Northwest Thresher Co., Stillwater, Minn.
Nye Steam Pump & Machinery Co., 567 W Wash'n, Chicago, Ill.
Orrville Pump & Furnace Co. ("Conkell"), Orrville, O.
Patterson Foundry & Machine Co., East Liverpool, O.
Pattin Bros. Co., Marietta, O.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONstruction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Pratt Engineering & Machine Co., Atlanta, Ga.
Prescott, F. M., Steam Pump Co., West Allis, Wis.
Pulsometer Steam Pump Co., Whitehall bldg, New York
Reliance Machine & Tool Works ("Hooker"), 3333 Franklin av, St. Louis, Mo.
Roberts, George J. Co., Dayton, O.
Rodgers Iron Mfg. Co., Muskegon, Mich.
Scranton Steam Pump Co., Scranton, Pa.
Smeallie Bros., Amsterdam, N. Y.
Smedley Steam Pump Co., Dubuque, Ia.
SNOW STEAM PUMP WORKS (High & Low Pressure), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Southwark Foundry & Machine Co., Phila., Pa.
Sydnor Pump & Well Co., Richmond, Va.
Taber Pump Co., Buffalo, N. Y.
Thompson Mfg. Co., Lancaster, N. H.
Union Iron Works Co., San Francisco, Cal.
UNION STEAM PUMP CO. ("Moore," "Burnham"), Battle Creek, Mich. (See adv. index, end of book)
Vanduzen, E. W. Co., Cincinnati, O.
Van Wie Pump Co., Syracuse, N. Y.
Wagener Steam Pump Works,. Canton, O.
Walker Mfg. Co., Fenton, Mich.
Walworth Mfg. Co., Boston, Mass.
Warren Steam Pump Co., Warren, Mass.
Weinman Pump Mfg. Co., Columbus, O.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
Wheeler, C. H., Mfg. Co., Lehigh & N. 18th, Phila., Pa.
WHEELER CONDENSER & ENGIneering Co., Cartaret, N. J. (See adv. index & branch offices, end of book)
Wilkinson Foundry & Mfg. Co., Bridgeport, Pa.
Willamette Iron & Steel Works, Portland, Ore.
Wilson-Snyder Mfg. Co., Pittsburg, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
WORTHINGTON, HENRY R. (High & Low Pressure), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
York Ice Machine Co., York, Pa.

## 9218—Pumps (Steam Turbine)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
De Laval Steam Turbine Co., Trenton, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
WHEELER CONDENSER & ENGIneering Co., Cartaret, N. J. (See adv. index & branch offices, end of book)

## Pumps (Stuff)

(See Pumps, Fan & Stuff)

## 9219—Pumps (Suction Box)

BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
BLAKE, GEO. F. MFG. CO., B'way Cedar, New York. (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
KNOWLES STEAM PUMP WORKS, B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 9220—Pumps (Sugar House)

ADVANCE PUMP & COMPRESSOR Co., Battle Creek, Mich. (See adv. index, end of book)
AMERICAN STEAM PUMP CO., Battle Creek, Mich. (See adv. index, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BEACH-RUSS CO., 55 Green, Brooklyn, N. Y. (See adv. index, end of book)
CAMERON, A. S. STEAM PUMP Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Connersville Blower Co., Connersville, Ind.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros. Steam Pump Wks., Indianapolis, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
DEMING CO., Salem, O. (See adv. index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
Epping-Carpenter Co., Pittsburg, Pa.
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
International Steam Pump Co., 115 B'way, New York
JENNINGS PUMP & DREDGE CO., 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
LAIDLAW - DUNN - GORDON CO., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)
National Fdy. & Machine Co., Louisville, Ky.
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
Platt Iron Works Co., Dayton, O.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Roots, P. H. & F. M. Co., Connersville, Ind.
Rumsey & Co., Seneca Falls, N. Y.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
UNION STEAM PUMP CO., Battle Creek, Mich. (See adv. index, end of book)
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.

## 9221—Pumps (Sulphur Fume)

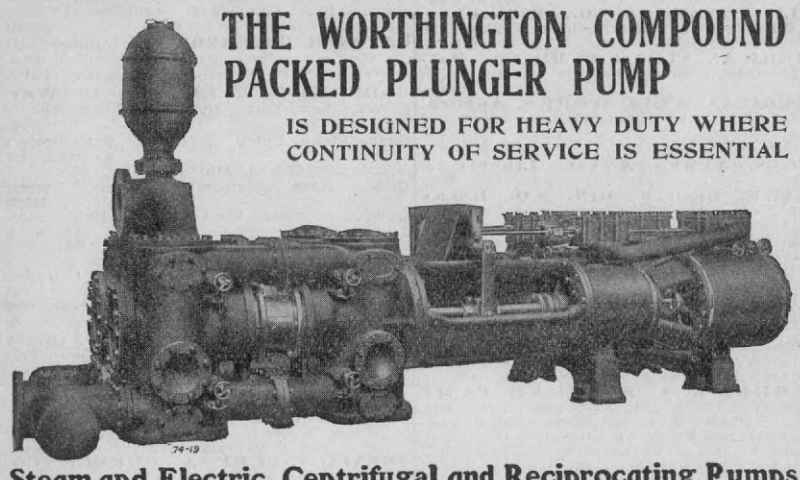
BLAKE, GEO. F. MFG. CO., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
KNOWLES STEAM PUMP WORKS, B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 9222— Pumps (Syphon)

Barnes Mfg. Co., Mansfield, O.
Challenge Co., Batavia, Ill.
Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
Columbiana Pump Co., Columbiana, O.
DEMING CO., Salem, O. (See adv. index & branch offices, end of book)
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa.
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Humphreys Mfg. Co., Mansfield, O.
Leng's, Jno. S. Son & Co. ("Lansdell's"), 33 Murray, New York
MYERS, F. E. & BRO. ("Myers"), Ashland, O. (See adv. index & branch offices, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

## 9223— Pumps (Tail)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass.
CAMERON, A. S. STEAM PUMP Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
JENNINGS PUMP & DREDGE CO., 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)

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**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)

## 9224— Pumps (Tank)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Barnes Mfg. Co., Mansfield, O.
**BEACH-RUSS CO., 55 Green, Brooklyn,** N. Y. (See adv. index, end of book)
**BEGGS, JAMES & CO., Liberty &** Church, New York
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
Blakeslee Mfg. Co., Du Quoin. Ill.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Boyts, Porter & Co., Connellsville, Pa.
Bushnell Pump Co., Bushnell, Ill.
Butler Co., Butler, Ind.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co. (Duplex), Wooster, O.
Case, J. I. Threshing Mach. Co., Racine, Wis.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
Church Bros., Adrian, Mich.
Clot & Christ Machine Co., San Francisco, Cal.
Columbiana Pump Co., Columbiana, O.
Connersville Blower Co., Connersville, Ind.
Crestline Mfg. Co., Crestline, O.
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end
Davis-Hansen Co. Oshkosh, Wis. of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Dempster Mill Mfg. Co., Beatrice, Neb.
Douglas, W. & B., Middletown, Conn.
Epping-Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flint & Walling Mfg. Co., Kendallville, Ind.
Foster Pump Works, 36 Bridge, Brooklyn, N. Y.
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hartley, C. J. Co., Decatur, Ill.
Hayes Pump & Planter Co., Galva, Ill.
Heller-Aller Co., Napoleon, O.
Humphreys Mfg. Co., Mansfield, O.
**DEMING CO., Salem, O., & 223 N Jeff-** 42 Michigan av, Chicago, Ill. (See adv. index, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Love Mfg. Co. (Thresher, etc.), Rockford, Ind.
McDonald, A. Y. Mfg. Co., Dubuque, Iowa
McGowan, Jno. H. Co., Cincinnati, O.
Manistee Iron Works Co., Manistee, Mich.
Marion Machine & Tool Co. ("Low Duty"), Marion, Ind.
Mast, Foos & Co. ("Buckeye"), Springfield, O.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO. ("Myers" Low** Down, "Myers Century" Low Down, "Myers" Cog Gear Low Down, "Myers Faultless" Low Down & "Myers" Geared). Ashland, O. (See adv. index & branch offices, end of book)
National Fdry & Mach. Co., Louisville, Ky.
National Steam Pump Co. (Low Duty), Upper Sandusky, O.
Nott, W. S. Co. ("King"), Minneapolis, Minn.
Peters Pump Co., Kewanee, Ill.
Port Huron Mfg. Co., Port Huron, Mich.
Porter, J. E. Co., Ottawa, Ia.
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Red Cross Mfg. Co., Bluffton, Ind.
Red Jacket Mfg. Co. ("Red Jacket," Double Acting Force, etc.), Davenport, Ia.
Roots, P. H. & F. M. Co., Connersville, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Smeallie Bros., Amsterdam, N. Y.
Stewart Heater Co., 40 Norfolk, Buffalo, N. Y.
Trahern Pump Co., Rockford, Ill.
**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)
U. S. Wind Engine & Pump Co., Batavia, Ill.
Wagener Steam Pump Works, Canton, O.
Ward Pump Co. (Thresher, etc.), Rockford, Ill.
Weinman Pump Mfg. Co., Columbus, O.
Wells, F. C. (Est. of), 101 S Clinton, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar. New York. (See adv. index & branch offices, end of book)

## 9225— Pumps (Tannery)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)

## 9226— Pumps (Tar)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
Dean Bros. Steam Pump Works, Indianapolis, Ind.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)

## 9227— Pumps (Test)

Ashcroft Mfg. Co., 85 Liberty, New York
Belfield, H. & Co., 433 N Broad, Phila., Pa.
**BERNZ, OTTO, 21 Ashland av, Newark,** N. J. (See adv. index, end of book)
Boekel, Wm. & Co. (Gas Fitters), 518 Vine, Phila., Pa.
Cleveland Steam Gauge Co., 1566 Merwin, N W, Cleveland, O.
**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Douglas, W. & B., Middletown, Conn.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Henderer's, A. L. Sons (Boiler Makers), Wilmington, Del.
**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 8th, Brooklyn,** N. Y. (See adv. index, end of book)
Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**SCHAEFFER & BUDENBERG MFG.** Co. (Inspectors', Portable), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Star Brass Mfg. Co., Boston, Mass.
Tagliabue, Chas. J. Mfg. Co. ("Shaw's" Hydraulic), 396 B'way, New York.
United States Gauge Co. (Hydraulic), 67 Wall, New York

## Pumps (Tire)

(See Pumps, Air, Tire)

## 9228— Pumps (Tower)

**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)

## 9229— Pumps (Track)

**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 9230—Pumps (Traction Engine)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)

## 9231— Pumps (Triplex)

**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (Power),** 481 Wabash, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MINNEAPOLIS STEEL & MACHINERY Co.,** Minneapolis, Minn. (See adv. index & branch offices, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Scranton Steam Pump Co., Scranton, Pa.

## 9232— Pumps (Turbine)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Alberger Pump Co., 140 Cedar, New York
Atlantic Hydraulic Machinery Co. (High Duty) Drexel bldg, Phila., Pa.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**Buffalo Steam Pump Co.,** Buffalo, N. Y.
Chicago Pump Co. (Electric Driven Multi-Stage), 1055 Fulton, Chicago, Ill.
De Laval Steam Turbine Co., Trenton, N. J.
**FAIRBANKS, MORSE & CO. (Vertical,** Two Stage, etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

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**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices. end of book)
Jackson Byron Iron Wks., San Francisco, Cal.
**JEANESVILLE IRON WORKS CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Kingsford Foundry & Machine Works (Motor Driven), Oswego, N. Y.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Krogh Pump Mfg. Co. (For High Lights), San Francisco, Cal.
Lathbury-D'Olier Co. ("D'Olier"), Marris bldg, Phila., Pa.
Lea Equipment Co. ("Lea-Degen" High Duty). 90 West, New York
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
Tacony Iron Co. ("Franklin"), Tacony, Phila., Pa.
**WATSON-STILLMAN CO. ("Twin-volute"),** 38 Church, New York (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York . (See adv. index & branch offices, end of book)

## 9233—Pumps (Underground Force)

Love, M. A. Mfg. Co., Rockford, Ill.
Trahern Pump Co., Rockford, Ill.
Ward Pump Co. (Three Way, etc.), Rockford, Ill.

## 9234—Pumps (Underwriters')

**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices. end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
Pratt Engineering & Machine Co. (Fire), Atlanta, Ga.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9235— Pumps (Vacuum)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
Alberger Pump Co., 140 Cedar, New York
American Air Compressor Works, Van Brunt & Summit, Brooklyn, N. Y.
American Compressor & Pump Co., Baltimore, Md.
**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
Bellows Falls Machine Co. (For Sulphite Systems), Bellows Falls, Vt
Bishop-Babcock-Becker Co. (Automatic Hydraulic), Cleveland, O.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass
Blakeslee Mfg. Co., Du Quoin, Ill.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Buffalo Steam Pump Co. (Crank & Flywheel & Single Cylinder), Buffalo, N. Y
Burrell, D. H. & Co. ("B-L-K"), Little Falls, N. Y
Bury Compressor Co., Erie, Pa.
**CAMERON, A. S. STEAM PUMP** Works: 433 E 23d, New York. (See adv. index & branch offices, end of book)
Canton-Hughes Pump Co., Wooster, O.
Canton Pump Co., Canton, O.
Carron, A. M. Machine Co. (Small, Electric), Pittsburg, Pa.
**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Columbus Steam Pump Works, Columbus, O.
Connersville Blower Co. (Cycloidal), Connersville, Ind.
**CROWELL, J. GILMER ("Crowell"),** 296 Taaffe pl, Brooklyn, N. Y. (See adv. index, end of book)
Davidson, M. T. (Air & Vacuum), 43 Keap, Brooklyn, N. Y.
Dayton Hydraulic Machinery Co., Dayton, O.
Dean Bros. Steam Pump Wks., Indianapolis, Ind.
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Devine, J. P. Co. ("Emil Passburg" System) Buffalo, N. Y.
Economic Power & Pump Co., 84 Cortlandt, New York
Emerson Steam Pump Co. (Steam), Alexandria, Va.
Epping-Carpenter Co., Pittsburg, Pa.
Fahn & McJunkin ("Geryk" for Lamp Factories), 201 E. 16th, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
General Machine Works ("York," Rotary), York, Pa.
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
Heisler Mfg. Co. (Wet & Dry), St. Marys, O.
Hubbard's, Norman Sons ("Packard"), 265 Water, Brooklyn, N. Y.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Marion Machine & Tool Co. (Low Duty), Marion, Ind.
Maslin, Jno. & Son, Jersey City, N. J.
National Foundry & Machine Co., Louisville, Ky.
New York Air Brake Co., 165 B'way, New York
Platt Iron Works Co., Dayton, O.
Rumsey & Co. (Ltd.) (Air Compressed Pump Combined), Seneca Falls, N. Y.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Trimount Rotary Power Co. ("Trimount," Rotary), 144 Pearl, Boston, Mass.
**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)
Wagener Steam Pump Works, Canton, O.
Weinman Pump Mfg. Co., Columbus, O.
West St. Louis Machine & Tool Co., St. Louis, Mo.
Wheeler, C. H. Mfg. Co. ("Pratt"), Lehigh av & N 18th, Phila., Pa.
**WHEELER CONDENSER & ENGI-**neering Co. ("Wheeler" Rotative Dry), Cartaret, N. J. (See adv. index & branch offices, end of book)

## 9236—Pumps (Vacuum Cleaning)

**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

## 9237—Pumps (Vacuum, Dry & Wet)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CAMERON, A. S. STEAM PUMP** Works (Direct Acting & Crank & Fly-Wheel), 433 E 23d, New York. (See adv. index & branch offices, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)
**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices. end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9238— Pumps (Volutes)

**GOULDS MFG. CO., Seneca Falls,** N. Y. (See adv. index & branch offices, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9238a— Pumps (Washout)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9239—Pumps (Water Motor)

**AMERICAN STEAM PUMP CO., Battle** Creek, Mich. (See adv. index, end of book)
Valle & Kimes, Dayton, O.

## 9240—Pumps (Water Works)

**ADVANCE PUMP & COMPRESSOR** Co., Battle Creek, Mich. (See adv. index, end of book)
**AMERICAN STEAM PUMP CO., Battle Creek, Mich.** (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Buffalo Steam Pump Co., Buffalo, N. Y.
Canton-Hughes Pump Co., Wooster, O.
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
De Laval Steam Turbine Co., Trenton, N. J.
**DEMING CO., Salem, O. (See adv.** index & branch offices, end of book)
Epping-Carpenter Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GARDNER GOVERNOR CO., Quincy, Ill.** (See adv. index & branch offices, end of book)
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Heisler Mfg. Co. (Horizontal), St. Marys, O.
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LAIDLAW - DUNN - GORDON CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
McGowan, Jno. H. Co., Cincinnati, O.
**MINNEAPOLIS STEEL & MACHINERY** Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**National Foundry & Machine Co., Louisville, Ky.**
National Steam Pump Co., Upper Sandusky, O.
Nordberg Mfg. Co., Milwaukee, Wis.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Rv., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
**RIFE ENGINE CO., Trinity bldg,** New York. (See adv. index & branch offices, end of book)
Roots, P. H. & F. M. Co. (Rotary Pressure), Connersville, Ind.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
**SNOW STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)

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**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)
Wagener Steam Pump Works, **Canton, O.**
Wells, F. C. (Est. of), **101 S Clinton, Chicago, Ill.**
Wood, P. K. Pump Co., **Los Angeles, Cal.**
Wood, R. D. & Co., **400 Chestnut, Phila., Pa.**

## 9241—Pumps (Water Works, Vacuum for Priming)

**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
**CROWELL, J. GILMER, 296 Taaffe** pl, Brooklyn, N. Y. (See adv. index, end of book)

## 9242— Pumps (Windmill)

(See also Windmills)

Aermotor Co., **Campbell av, nr. 12th, Chicago, Ill.**
Althouse-Wheeler Co., **Waupun, Wis.**
Baker Mfg. Co., **Evansville, Wis.**
**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek), Baltimore, Md. (See adv. index, end of book)
Barnes Mfg. Co., **Mansfield, O.**
**BEACH-RUSS CO., 55 Green, Brook**lyn, N. Y. (See adv. index, end of book)
Beckman Bros. ("B-B"), **Des Moines, Ia.**
Butler Co., **Butler, Ind.**
Challenge Co., **Batavia, Ill.**
Chandler Pump Co., **Cedar Rapids, Ia.**
Columbiana Pump Co., **Columbiana, Ohio**
Cook, A. D., **Lawrenceburg, Ind.**
Cook-Well Co., **St. Louis, Mo.**
Corcoran, A. J. (Inc.), **11 John, New York**
Crestline Mfg. Co., **Crestline, O.**
**DEMING CO., Salem, O. (See adv. index & branch offices,** end of book)
Douglas, W. & B., **Middletown, Conn., & 85 John, New York**
Duplex Mfg. Co., **South Superior, Wis.**
Elgin Wind Power & Pump Co., **Elgin, Ill.**
**FAIRBANKS, MORSE & CO. ("Eclipse"** Anti-Freezing; also "Femco" Three-Way Anti-Freezing), **481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Field Force Pump Co. (Force), **Elmira, N. Y.**
Flint & Walling Mfg. Co., **Kendallville, Ind.**
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
Hayes Pump & Planter Co., **Galva, Ill.**
Humphryes Mfg. Co., **Mansfield, O.**
Ideal Pump & Mfg. Co., **Green City, Mo.**
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Love, M. A. Mfg. Co. (Hand Force, etc.), **Rockford, Ill.**
**Mast, Foos & Co., Springfield, O.**
Maud S. Windmill & Pump Co., **Lansing, Mich.**
**MYERS, F. E. & BRO. ("Imperial"** Regulator & Syphon, "Branch Pipe," "Three-Way" & "Defiance"), **Ashland, O.** (See adv. index & branch offices, end of book)
Peters Pump Co., **Kewanee, Ill.**
Phelps & Bigelow Windmill Co., **Kalamazoo, Mich.**
Red Cross Mfg. Co., **Bluffton, Ind.**
Red Jacket Mfg. Co. ("Red Jacket," Force), **Davenport, Ia.**
Rumsey & Co. (Ltd.), **Seneca Falls, N. Y.**
Temple Pump Co., **418 W 15th pl, Chicago, Ill.**
Trahern Pump Co., **Rockford, Ill.**
U. S. Wind Engine & Pump Co., **Batavia, N. Y.**
Ward Pump Co. (Hand Force), **Rockford, Ill.**
Woodmanse Mfg. Co., **Freeport, Ill.**
Zimmerman Mfg. Co., **Auburn, Ind.**

## 9243— Pumps (Wood)

Althouse-Wheeler Co., **Waupun, Wis.**
Biggs, B. F. Pump Co. (Also Iron, for the Trade Only), **Lafayette, Ind.**
**Blatchley, Chas. G., Drexel bldg, Phila., Pa.**
Bryson City Pump Works, **Bryson City, N. C.**
Bushnell Pump Co., **Bushnell, Ill.**
**Cedar Rapids Pump Co., Cedar Rapids, Ia.**
**Challenge Co., Batavia, Ill.**
**Chandler Pump Co., Cedar Rapids, Ia.**
Childs, Chas. H. & Co., **Utica, N. Y.**
**Cincinnati Pump Co., Cincinnati, O.**
Cole Bros. Lightning Rod Co., **St. Louis, Mo.**
Dempster Mill Mfg. Co., **Beatrice, Neb.**
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Florence Pump & Lumber Co., Memphis, Tenn.**
**Howard & Jennings, Syracuse, N. Y.**
**McDonald, A. Y. Mfg. Co., Dubuque, Ia.**
Mercer, B. F. & Son, **Alliance, O.**
Page & Hill, **Brasher Falls, N. Y.**
Reifel Pump Works, **Erie, Pa.**
Rich Pump Co., **Cincinnati, O.**
St. Joseph Pump & Mfg. Co., **St. Joseph, Mo.**
Temple Pump Co., **418 W 15th pl, Chicago, Ill.**
Torrent Pump Co., **Sebring, O.**
U. S. Wind Engine & Pump Co., **Batavia, Ill.**
West, Wm. S. & Son, **Chillicothe, O.**
Winchester Pump Co., **Winchester, Ind.**
Winship Mfg. Co., **Racine, Wis.**
Wood's, G. R. Sons, **Sheffield, Pa.**

## 9244— Pumps (Wrecking)

**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Blakeslee Mfg. Co., **DuQuoin, Ill.**
Buffalo Steam Pump Co., **Buffalo, N. Y.**
Canton-Hughes Pump Co., **Wooster, O.**
Davidson, M. T., **43 Keap, Brooklyn, N. Y.**
Dean Bros. Steam Pump Works, **Indianapolis, Ind.**
Douglas, W. & B., **Middletown, Conn.**
Epping-Carpenter Co., **Pittsburg, Pa.**
**GOULDS MFG. CO., Seneca Falls, N. Y.** (See adv. index & branch offices, end of book)
**JENNINGS PUMP & DREDGE CO.,** 305 N Michigan av, Chicago, Ill. (See adv. index, end of book)
Kingsford Fdry. & Mach. Wks., **Oswego, N. Y.**
**KNOWLES STEAM PUMP WORKS, B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Lake City Engineering Co., **Erie, Pa.**
**MORRIS MACHINE WORKS, Baldwinsville, N. Y.** (See adv. index & branch offices, end of book)
National Foundry & Machine Co., **Louisville, Ky.**
Nye Steam Pump & Machinery Co., **567 W Washington, Chicago, Ill.**
Platt Iron Works Co., **Dayton, O.**
Roots, P. H. & F. M. Co., **Connersville, Ind.**
Swenson, J., ft. of Warren, **Jersey City, N. J.**
Van Wie Pump Co., **Syracuse, N. Y.**
Wilson-Snyder Mfg. Co., **Ross & Water, Pittsburg, Pa.**

## 9245—Pumps & Boilers (Combined)

**BEGGS, JAMES & CO., Liberty &** Church, New York
Blakeslee Mfg. Co., **DuQuoin, Ill.**
Buffalo Steam Pump Co., **Buffalo, N. Y.**
**CAMERON, S. A. STEAM PUMP** Works, 433 E 22d, New York. (See adv. index & branch offices, end of book)
**Columbus Steam Pump Works, Columbus, O.**
Davidson, M. T., **43 Keap, Brooklyn, N. Y.**
Dean Bros. Steam Pump Wks., **Indianapolis, Ind.**
**DEANE STEAM PUMP CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Dow, Geo. E. Pumping Engine Co., **179 1st, San Francisco, Cal.**
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hall Steam Pump Co., **Pittsburg, Pa.**
National Foundry & Machine Co., **Louisville, Ky.**
Platt Iron Works Co., **Dayton, O.**
Roberts, Geo. J. Co., **Dayton, O.**
**UNION STEAM PUMP CO., Battle** Creek, Mich (See adv. index, end of book)
Weinman Pump Mfg. Co., **Columbus, O.**
Wells, F. C. (Est. of), **101 S Clinton, Chicago, Ill.**
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 9245a—Pumps & Pneumatic Pumps (Combined)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 9246— Punch Stems

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 9247—Punch & Shear Combined (Hand Power)

Armstrong-Blum Mfg. Co. ("Marvel," also I Beam Punch & Slitting Shear), **107 N Francisco av, Chicago, Ill.**
Bertsch & Co., **Cambridge City, Ind.**
Clark Foundry Co. ("Jarrell"), **Rumford, Me.**
Custer Mfg. Co. ("Custer"), **Summitville, Ind.**
Little Giant Punch & Shear Co. ("Little Giant" Lever), **Sparta, Ill.**
Luther Mfg. Co. (For Tire Upsetting, etc.), **Olean, N. Y.**
Nappanee Iron Works ("Victor" for Tinners), **Nappanee, Ind.**
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 25...** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sears, Geo. & Co. ("Champion" Lever), **Onslow, Iowa**
Slater, Marsden & Whittmore Co., **Beloit, Wis.**
Weiss, H. & Co. ("Little Blacksmith" Punch, Shear & Bender Combined), **20 Cliff, New York**
Whiting, Geo. Co., **1701 Elston av, Chicago, Ill.**
Young Machine & Tool Co., **Worcester, Mass.**

## 9248—Punch & Straightener Combined

**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
United Engineering & Foundry Co., **Farmers' Bank bldg, Pittsburg, Pa., & Youngstown, Ohio**

## Punches (Backing-out)

(See Punches, Pin)

## 9249— Punches (Beam)

(See also Punches for Ornamental Iron Work)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)

## 9250— Punches (Belt)

Atkins, E. C. & Co. ("Rogers"), **Indianapolis, Ind.**
Buffalo Specialty Co. ("New Play"), **375 Ellicott, Buffalo, N. Y.**
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Eyelet Tool Co., **Boston, Mass.**
Kraeuter & Co., **Newark, N. J.**
Lowentraut, P. Mfg. Co., **Newark, N. J.**
**MORRILL, CHAS. ("Morrill"), 277 B'way,** New York. (See adv. index, end of book)
Osborne, C. S. & Co., **Harrison, N. Y.**
Peck, Stow & Wilcox Co. ("Hercules"), **Southington, Conn.**
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), **91 West, New York** (See adv. index, end of book)

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Schollhorn, Wm. Co. ("Bernard's"), New Haven, Conn.
Smith, Otis A., Rockfall, Conn.
Smith & Egge Mfg. Co. ("S. & E. M. Co." Revolving Spring. etc.), Bridgeport, Conn.
Vaughn & Bushnell Mfg. Co. ("V. & B." Solid Steel), 2130 Carroll av, Chicago, Ill.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.

## 9251– Punches (Bench)

American Lock Nut Co. ("Lightning"), Oregon, Ill.
Buffalo Forge Co., Buffalo, N. Y.
Butts & Ordway ("B & O", "Easy"), Boston, Mass.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Goodell-Pratt Co., Greenfield, Mass.
Oswego Tool Co., Oswego, N. Y.

## 9252–Punches (Blacksmiths')

Anderson, W. H. Tool & Supply Co., Detroit,
Atha Tool Co., Newark, N. J. Mich.
Beall Bros. (Inc.), Alton, Ill.
Bicknell Mfg. & Supply Co., Janesville, Wis.
Champion Tool Co. ("Champion"), Meadville, Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Heller Bros. Co., Newark, N. J.
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Vaughn & Bushnell ("V. & B." Center), 2130 Carroll av, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa. & Verona, Pa.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9253–Punches (Boilermakers')

**(See also Punching Machines, Boilermakers')**
American Die & Tool Co., Reading, Pa.
Bertsch & Co., Cambridge City, Ind.
Chester Engineering & Machine Co. ("P. & S."), Chester, Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Excelsior Tool & Machine Co., East St. Louis, Ill.
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Lovejoy Tool Works (Cast Steel & Drop Forged Screw; Also with Rachet Attachment), 335 W Ohio, Chicago, Ill.
Oswego Tool Co., Oswego, N. Y.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Richards, I. P. Co., Providence, R. I.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9254–Punches (Butchers' Saw, Etc.)

Goodell-Pratt Co., Greenfield, Mass.
Thompson, H. G. & Son Co. ("Thompson's"), New Haven, Conn.

## 9255–Punches (Button Hole)

Kraeuter & Co., Newark, N. J.

## 9256–Punches (Center & Prick)

Anderson, W. H. Tool & Supply Co., Detroit,
Atha Tool Co., Newark, N. J. Mich.
Beall Bros. (Inc.), Alton, Ill.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brown & Sharpe Mfg. Co., Providence, R. I.
Browne & Dowd Mfg. Co. (Knurled), Meriden, Conn.
Buck Bros. (And Solid), Millbury, Mass.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Elmore Tool & Mfg. Co., Hartford, Conn., & Wethersfield, Conn.
Evansville Tool Works, Evansville, Ind.
Excelsior Tool & Machine Co., East St. Louis, Ill.
Goodell-Pratt Co. (Knurled), Greenfield, Mass.
Goodell Mfg. Co., Greenfield, Mass.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Keystone Mfg. Co. ("Keystone" Center), 41 Chandler, Buffalo, N. Y.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Marcy, A. W. Tool Works, Putnam, Conn.
Mayhew, H. H. Co., Shelburne Falls, Mass.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Osborne, C. S. & Co. (Prick), Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
S. & I. Company, Springfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Snell Mfg. Co., Fiskdale, Mass.
Stanley Rule & Level Co., New Britain, Conn.
**STARRETT, L. S. CO. (Machinists,'** Center, etc.), Athol, Mass. (See adv. index & branch offices, end of book)
Stortz, Jno. & Son ("Diamond"), 210 Vine, Phila, Pa.
Syracuse Twist Drill Co. (Knurled, Prick & Corrugated Center), Syracuse, N. Y.
Tuck Mfg. Co., Brockton, Mass.
Union Caliper Co., Orange, Mass.
Vaughn & Bushnell Mfg. Co. ("V. & B." Tinners), 2130 Carroll av, Chicago, Ill.
Washington Cutlery Co., Watertown, Wis.

## 9257–Punches (Conductors' Ticket, Etc.)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
Bonney-Vehslage Tool Co., 124 Chambers, New York
Bridgeport Hardware Co. ("Trump" Reservoir, etc.), Bridgeport, Conn.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Crocker, L. O., East Braintree, Mass.
International Register Co., 625 W Jackson boul, Chicago, Ill.
Johnson, Wm. (Hedenberg Works), Newark,
Kraeuter & Co., Newark, N. J. N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
McGill Ticket Punch Co., 222 S Canal, Chicago, Ill.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
National Selling Co., Allentown, Pa.
Recording Register & Fare Box Co., New Haven, Conn.
Sayre, L. A. & Son, Newark, N. J.
Schollhorn, Wm. Co. ("Bernard's"), New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Sperry & Alexander Co., 20 Warren, New York
Sterling-Meaker Co., 420 Ogden, Newark, N.J.
Tower & Lyon Co., 95 Chambers, New York
Wilcox, W. W. & Co., 325 Dearborn, Chicago. Ill.
Woodman, R. Mfg. & Supply Co. (Cast Steel), Boston, Mass.

## 9258– Punches (Coopers')

Sayre, L. A. & Son, Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 9259– Punches (Drive)

Anderson, M. H. Tool & Supply Co., Detroit, Mich.
Bemis & Call Hdw. & Tool Co. (Steel), Springfield, Mass.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck, Chas., Millbury, Mass.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Clough, R. M., Tolland, Conn.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Eyelet Tool Co., 40 Lincoln, Boston, Mass.
Goodell-Pratt Co. (Knurled), Greenfield, Mass.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Osborne, C. S. & Co. (Harness Makers, etc.), Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Transue & Williams Co. (Drop Forged), Alli-Tuck Mfg. Co., Brockton, Mass. ance, O.
Wilcox, Crittenden & Co., Middletown, Conn.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9260– Punches (Eyelet)

Eyelet Tool Co., Boston, Mass.
Lowentraut, P. Mfg. Co., Newark, N. J.
Stimpson, Edwin B. Co., 31 Spruce, New York

## 9261– Punches (Flange)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)

## 9262–Punches (Flue Shearing)

**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Richards, I. P. Co., Providence, R. I.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9263–Punches for Ornamental Iron Work

**BRAUN, J. G., 615 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)**
Lewthwaite, T. H. (Power, Hand & Foot), 413 E 31st, New York
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Richards, I. P. Co., Providence, R. I.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9264– Punches for Scrolls

**BRAUN, J. G., 615 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)**
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)

## Punches (Gang)

(See Punching Machines. Multiple)

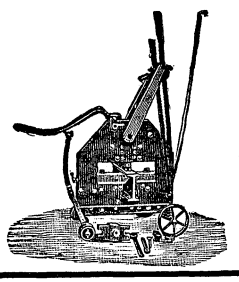
## 9265– Punches (Gasket)

**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Victor Tool Mfg. Co. ("Victor"), Waynesboro, Pa.

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"THE TOOLS WITH THE BACKBONE"



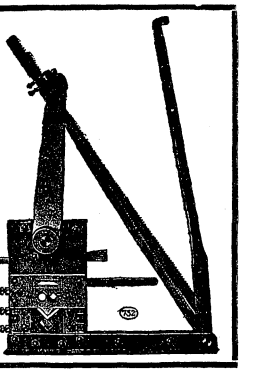
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HENRY PELS & CO., West and Albany Streets, NEW YORK CITY.



## 9266— Punches (Hand)

**Akron Machine Co., Akron, O.**
**American Lock Nut Co. ("Lightning Portable"), Oregon, Ill.**
Anderson Tool & Supply Co., Detroit, Mich.
Armstrong-Blum Mfg. Co., 337 N Francisco, Chicago, Ill.
**Atha Tool Co. (Solid Cast Steel), Newark, N. J.**
Bertsch & Co., Cambridge City, Ind.
Buffalo Forge Co., Buffalo, N. Y.
**BUFFUM TOOL CO. (Machinists'),** Louisiana, Mo. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
Excelsior Tool & Machine Co. ("Little Giant" Portable Lever), East St. Louis, Ill.
**Evansville Tool Works, Evansville, Ind.**
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
**Keene, Geo. C. & Co., Cincinnati, O.**
Kidder, J. F. Mfg. Co. ("Little Blacksmith"), Burlington, Vt.
Kling Bros.. 1304 Hawthorne av, Chicago, Ill.
**Lewthwaite, T. H., 413 E 31st, New York.**
Little Giant Punch & Shear Co. ("Little Giant"), Sparta, Ill.
Loyd, John Co., 558 Water, New York
**MORRILL, CHAS. ("Morrill"), 277 B'way,** New York. (See adv. index, end of book)
Mossberg, Frank, Co., Attleboro, Mass.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
**Niles-Bement-Pond Co., 111 B'way, New York**
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
**Perkins Machine Co. (Metal), Warren, Mass.**
**Queen City Punch & Shear Co., 208 Lawrence, Cincinnati, O.**
**Redin, Ekstrom & Co. ("Redin-Ekstrom" for Metal), Rockford, Ill.**
**Richards, I. P. Co. ("U. S." Standard Punches for Punching Iron & Steel), Providence, R. I.**
Rinn, Albert E., Allentown, Pa.
Rock River Machine Co. ("Badger" Boilermakers, Tinners, etc.), Janesville, Wis.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Strait, H. N. Mfg. Co. (For Cooperage Mfrs.), Kansas City, Kans.
**Vaughn & Bushnell Mfg. ("V. & B."), 2130** Carroll av, Chicago, Ill.
**WATSON-STILLMAN CO., 50 Church, New** York. (See adv. index, end of book)
Weiss, H. & Co. ("Hercules"), 20 Cliff, New York
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Whitney, W. A. Mfg. Co. ("Uncle Sam's Choice," "The User's Pride," Portable), Rockford, Ill.
Woods Valve & Machine Co. ("Hercureka"), Steubneville, O.

## 9267—Punches (Hand Power)

American Lock Nut Co. ("Lightning", For Punching Holes in Angles, Flanges, Tank Heads, etc.), Oregon, Ill.
**Badger State Machine Co., Janesville, Wis.**
**Baker Machine Co., Trenton, N. J.**
Bertsch & Co., Cambridge City, Ind.
**Bicknell Mfg. & Supply Co., Janesville, Wis.**
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Danzer Metal Works ("Handy"), Hagerstown, Md.
Excelsior Tool & Machine Co., E. St. Louis, Ill.
**New Doty Mfg. Co., Janesville, Wis.**
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Richards, I. P. Co., Providence, R. I.
Schuchardt & Schutte (Unbreakable), 90 West, New York
Slater, Marsden & Whittmore Co., Beloit, Wis.
Young Machine & Tool Co., Worcester, Mass.

## 9268—Punches (Hand & Tube Hole)

Chester Engineering & Machine Co. ("P. & S."), Chester, Pa.
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**LONG & ALLSTATTER CO., Hamil**ton, O. (See adv. index, end of book)
New Doty Mfg. Co., Janesville, Wis.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
**Richards, I. P. Co., Providence, R. I.**

## 9269— Punches (Head)

**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York (See adv. index, end of book)

## 9270—Punches (High Speed)

**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)

## 9271— Punches (Hog Ring)

Humason & Beckley Mfg. Co., New Britain, Conn.

## 9272— Punches (Hollow)

Peck, Stow & Wilcox Co., Southington, Conn.
**Stortz, John & Son, 210 Vine, Phila., Pa.**

## Punches (Horizontal)

(See Punching Machines, Horizontal; also Machinery, Punching & Shearing)

## Punches (Hydraulic)

(See Punching Machines, Hydraulic; also Machinery, Punching & Shearing)

## 9273—Punches (Hydraulic, for Web or T Rails, Etc.)

**AMERICAN STEEL & WIRE CO., Com**mercial Nat. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9273a— Punches (Lever)

**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

## 9274— Punches (Marking)

Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.

## Punches (Multiple)

(See Punching Machines, Multiple)

## 9275— Punches (Paper)

Benton Mfg. Co., 9 Bethune, New York
Latham Machinery Co., S Reade, New York
**MORRILL, CHAS. ("Morrill"), 277 B'way,** New York. (See adv. index, end of book)
**PROUDFIT LOOSE LEAF CO.** ("Proudfit," Hand), Grand Rapids, Mich. (See adv. index & branch offices, end of book)
Tatum, Samuel C. Co. (Adjustable Office & Multiple), Cincinnati, O.

## 9276— Punches (Pin)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Cleveland Steel Tool Co., Cleveland, O.
S. & I. Co., Springfield, Mass.
**Tuck Mfg. Co., Brockton, Mass.**

## Punches (Pneumatic)

(See Pneumatic Punches)

## 9277— Punches (Portable)

American Lock Nut Co. ("Lightning" Hand for Punching Holes in Angle Iron, etc.), Oregon, Ill.
**Armstrong-Blum Mfg. Co. ("Marvel," All Steel), 124 N. Francisco av., Chicago, Ill.**
**Excelsior Tool & Machine Co. ("Little Giant"), East St. Louis, Ill.**
**Kidder, J. F. Mfg. Co. ("Little Blacksmith"), Burlington, Vt.**
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Whitney, W. A. Mfg. Co. ("Whitney", Hand Angle Iron, etc.), Rockford, Ill.

## Punches (Power)

(See Machinery, Punching & Shearing; also Shears, Various Kinds)

## 9278— Punches (Revolving)

Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J. **N. J.**
Lowentraut, P. Mfg. Co., Newark, N. J.
**Osborne, C. S. & Co., Harrison, N. J.**
Peck, Stow & Wilcox Co., Southington, Conn.
Smith & Egge Mfg. Co., **Bridgeport, Conn.**
Stearns, E. C. & Co. (Revolving Spring), Syracuse, N. Y.

## 9279—Punches (Round or Saddlers')

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
**Osborne, C. S. & Co., Harrison, N. J.**
Peck, Stow & Wilcox Co., Southington, Conn.
S. & I. Co. ("S & I"), Springfield, Mass.
**Stortz, John & Son, 210 Vine, Phila., Pa.**

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## 9280— Punches (Saw)

Disston, Henry & Sons ("Midget"), Tacony, Phila., Pa.
Goodell-Pratt Co. ("Goodell"), Greenfield, Mass.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9281— Punches (Screw)

Badger State Machine Co., Janesville, Wis.
**CLEVELAND PUNCH & SHEAR** Works Co. (Cast Steel), Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co., Cleveland, O.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York (See adv. index, end of book)
Henderer's, A. L. Sons (Hydraulic), Wilmington, Del.
King, A. R. Mfg. Co., Kingston, N. Y.
Lovejoy Tool Works (Cast Steel & Drop Forged, also with Rachet Attachment), 385 W Ohio, Chicago, Ill.
Manitowoc Dry Dock Co. ("Gunnell" Portable) Manitowoc, Wis.
Oswego Tool Co., Oswego, N. Y.
**UNION ELEVATOR & MACHINE CO.** (Also with Ratchet Handle), 215 Ontario, Chicago, Ill. (See adv. index, end of book)
**WATSON-STILLMAN CO. (Hand &** Hydraulic), 38 Church, New York (See adv. index, end of book)

## 9282—Punches (Sheet Metal)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**MORRILL, CHAS. ("Morrill Hercules" up** to 18 Gauge), 277 B'way, New York. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9283— Punches (Solid)

(See also Punches, Tinners', Solid Drive)
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9284— Punches (Spring)

Johnson, Wm. (Hedenberg Works), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Springfield Machine Screw Co., Springfield, Mass.
Star Heel Plate Co. (Louis Sacks, Prop.), Hamburg pl & Ave. L, Newark, N. J.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## Punches (Ticket)

(See Punches, Conductors' Ticket)

## 9285— Punches (Tie Plate)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wilmington, Del.** (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## 9286—Punches (Tinners', Solid Drive)

Belden Machine Co. (Drop Forged), New Haven, Conn.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Browne & Dowd Mfg. Co., Meriden, Conn.
Cleveland Steel Tool Co., Cleveland, O.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Elmore Tool Mfg. Co., Hartford, Conn.; also Wethersfield, Conn.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mayhew, H. H. Co., Shelbourne Falls, Mass.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Sayre, L. A. & Son, Newark, N. J.
Smith, H. D. & Co. ("Sharpenezy"), Plantsville, Conn.
Snell Mfg. Co., Fiskdale, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Syracuse Twist Drill Co., Syracuse, N. Y.
Tuck Mfg. Co., Brockton, Mass.
Vaughan & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
Washington Cutlery Co., Watertown, Wis.

## 9287— Punches (Track)

Anderson, W. H. Tool & Supply Co., Detroit, Mich.
Atha Tool Co. (Solid Cast Steel), Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Chester Engineering & Machine Co. ("P. & S."), Chester, Pa.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Klein-Logan Co., Pittsburg, Pa.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York (See adv. index, end of book)
Vaughn & Bushnell Mfg. Co. ("V. & B." Tool Steel, Oil Finished), 2130 Carroll av, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Warwood Tool Co., Wheeling, W. Va. Pa.
**WATSON-STILLMAN CO. (Hydraulic),** 38 Church, New York. (See adv. index, end of book)
Western Tool & Forge Co., Brackenridge, Pa.
Woods Valve & Machine Co. ("Hercureka"), Steubenville, O.

## Punching & Shearing Machinery

(See Machinery, Punching & Shearing)

## 9288—Purifiers (Feed Water)

(See also Heaters, Feed Water)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Water Softener Co. ("Bruun-Lowener"), 1009 Chestnut, Phila., Pa.
Angell, Jno. E. & Co. (Chemical), St. Louis, Mo.
Baragwanath, Wm. & Son, 1260 W Division, Chicago, Ill.
Bates Machine Co. ("Cookson" System), Joliet, Ill.

JAMES BEGGS & CO.

**(Blackburn-Smith Feed Water Filter & Grease Extractor),** Liberty & Church, New York
Berry Engineering Co. ("Berry" "Monograph"), Chester, Pa.
Colles, E. G. T. & Co. ("Colles" Automatic Live Steam Filter & Purifier), 117 N Canal, Chicago, Ill.
Davis, I. B. & Son, Hartford, Conn.
Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
Duquesne Mfg. Co. ("Gunning"), Pittsburg, Pa.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Eclipse Feed Water & Purifier Co. ("Eclipse" Heater & Purifier for Exhaust & Live Steam), Oshkosh, Wis.
Economy Iron Works ("Dougherty"), Chester, Pa.
Erie Machine Shops ("Jackson"), Erie, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Frost Mfg. Co. ("Continental"), Galesburg, Ill.
**GRAVER, WM. TANK WORKS,** East Chicago, Ind. (See adv. index & branch offices, end of book)
**GRISCOM-SPENCER CO., 90 West, New** York. (See adv. index & branch offices, end of book)
Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.
Harrison Safety Boiler Works ("Sorge").
Hoppes Mfg. Co., Springfield O. Phila., Pa.
Jacobs, Chas. & Co., 42 Oliver, Boston, Mass.
Jewell Engineering Co., Monadnock blk, Chicago, Ill.
Just Mfg. Co., Heed bldg., Phila., Pa.
Kennicott Water Softener Co., 206 La Salle, Chicago, Ill.
Keyes, F. E. & Son ("Advance"), 20 Broad.
Liberty Mfg. Co., Pittsburg, Pa. New York
Linton Machine Co., 26 Cortlandt, New York
McGowan, Jno. H. Co., Cincinnati, O.
Marion Incline Filter & Heater Co., Marion, O.
National Water Softener Sales Co. ("National" Water Softener), Indianapolis, Ind.
Northern Water Softener Co. ("Bartlett"), Madison, Wis.
Patterson, D. W. ("Machman" System), Harrison bldg, Phila., Pa.
Patterson, Frank L. & Co., 26 Cortlandt, New York
**PETROLEUM IRON WORKS CO.** ("Lowe"), Sharon, Pa. (See adv. index & branch offices, end of book)
Pittsburg Feed Water Heater Co., Pittsburg, Pa.
**Platt Iron Works Co., Dayton, O.**
Power Plant Specialty Co. ("Vater"), 247 S Jefferson, Chicago, Ill.
Reiter Boiler Cleaner Co., Elgin, Ill.
Roche Engineering Co. ("American"), Weightman bldg, Phila., Pa.
Ross Valve Co. ("Railton," "Campbell"), Troy, N. Y.
Russell Engine Co. ("Massillon" Feed Water Heater, Purifier & Oil Extractor), Massillon, O.
**SCAIFE, WM. B. & SONS CO. ("Sci-**entific"), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Steam Appliance Mfg. Co. ("Judge," "Morrison"), Batavia, N. Y.
Stewart Heater Co. (Feed Water Purifying Apparatus), 40 Norfolk av, Buffalo, N. Y.
Under-Feed Stoker Co. of America ("Bartlett"), 204 Dearborn, Chicago, Ill.
Webster, Warren & Co., Camden, N. J.
**WHITLOCK COIL PIPE CO., Hartford, Conn.** (See adv. index, end of book)
Wilkinson Foundry & Mfg. Co., Bridgeport, Pa.

## 9288a— Purifiers (Flour)

**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

## 9289—Purifiers & Scrubbers (Gas)

(See also Gas Works Apparatus & Construction; also Gas Works Machinery, Etc.)
Bartlett, Hayward & Co., Baltimore, Md.
**CANTON BOILER & ENGINEERING CO.,** Canton, O. (See adv. index, end of book)
Chicago Bridge & Iron Works, Throop & 105th, Chicago, Ill.
Continental Iron Works, West & Caylor, Brooklyn, N. Y.
Cruse-Kemper Co., Ambler, Pa.
Gas Machinery Co. (Rotary), Cleveland, O.
**GRAVER, WM., TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Isbell-Porter Co. (Rotary Ammonia & Shaving), Newark, N. J.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Lloyd Construction Co., Detroit, Mich.
Meehan Boiler & Cons. Co., Loweville, O.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Sharon Boiler Works, Sharon, Pa.
Stacey Mfg. Co. ("Chollar's" System of Gas Purification), Cincinnati, O.
Wood, R. D. & Co. ("Theisen"), 400 Chestnut, Phila., Pa.

## 9289a— Push Button Centers

Auburn Button Works, Auburn, N. Y.
Scranton Button Co. (Electroid), Scranton, Pa.

## 9290— Push Buttons

(For Other Electrical Specialties, See Index of Contents)

American Car & Ship Hdw. Mfg. Co., New Castle, Pa.
American Hard Rubber Co., 9 Mercer, New York
Ansonia Electrical Co., Ansonia, Conn.
Bunnell, J. H. & Co., Park pl & Church, New York
Chicago Glass Novelty Co., Marion, Ind.
Corbin, P. & F., New Britain, Conn.
Couch, S. H. Co. ("Worksite"), Boston, Mass.
**DELAWARE HARD FIBRE CO., Wilmington, Del.** (See adv. index, end of book)
**Dickinson Mfg. Co. (Rubber & Elborine), Springfield, Mass.**

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# ELECTRICAL RESISTANCE PYROMETERS

**For the precise measurement of temperatures from the lowest up to 1800° Fahr. No cold end. Operate from battery or lighting circuit.**

## THE LEEDS & NORTHRUP COMPANY

### ELECTRICAL MEASURING INSTRUMENTS

**STENTON AVENUE** **PHILADELPHIA, PA.**

Dixon, Fred'k W. (Wood), 92 Utica, Boston, Mass.
Edwards & Co. ("New Mite," "Midget Jr."), 144th & 4th av, New York
Electric Goods Mfg. Co., 144 Pearl, Boston, Mass.
Electrical Appliance Mfg. Co., Waterbury, Conn.
Hart & Hegeman Mfg. Co., Hartford, Conn.
Keil, Francis & Son ("Anti-Wood," "Anti-Screw Midget"), 401 E 163d, New York
Manhattan Electrical Supply Co., 17 Park pl, New York
Moon Mfrs. Co., 122 N Jefferson, Chicago, Ill.
Murdock, W. J. & Co., Chelsea, Mass.
Ostrander, W. R. & Co., 22 Dey, New York
P. R. Mfg. Co., Detroit, Mich.
Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
Pass & Seymour ("No-Scru"), Solvay, N. Y.
Penn Hardware Co. ("Penn-Hellas"), Reading, Pa.
Phelps & Sons Mfg. Co., Newark, N. J.
Ranscher, Jno. (Wood), St. Paul, Minn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Siemon Hard Rubber Corp., Bridgeport, Conn.
Spencer's, I. S. Sons, Guilford, Conn.
Standard Mfg. Co., Bridgeport, Conn.
Starr Bros. Bell Co., East Hampton, Conn.
U. S. E. M. Co., 209 W 33d, New York
Union Hardware Co. (Wood), Torrington, Conn.
Viaduct Electric Co., Relay, Md.
Walsh, Owen, Mfg. Co., 78 Barclay, New York
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, Henry (Bronze), 70 Frost, Brooklyn, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

### 9291—Push Plates (Plate Glass)

Anderson, Geo. H. & Co., 1458 W Kinzie, Chicago, Ill.

### Pushers (Car)

(See Car Movers or Pushers)

### 9292— Pushers (Coke)

**ATLAS CAR & MFG. CO. (Electric),** 1289 Marquette rd, N E, Cleveland, Ohio. (See adv. index, end of book)

### 9293— Putty (Glazing)

Minnesota Weatherproof Calking & Glazing Co. ("Hennen's", Weatherproof), Minneapolis, Minn.

### 9294— Putty (Greenhouse)

Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.
Patton Paint Co. (Liquid), Milwaukee, Wis.

### 9295— Putty Mfrs.

Acme White Lead & Color Works, Detroit, Mich.
Allen Paint & Putty Works, 334 N Ashland av, Chicago, Ill.
Allentown Mfg. Co., Allentown, Pa.
American Koalin Putty Co., Salem, Mass.
Baker, Wm. T. (Inc.), 228 Suydam, Jersey City, N. J.
Belknap, E. S. McSherry & Moran Co., 5 Ainslie, Brooklyn, N. Y.
Briggs, John & Co. ("Anchor"), 47 Purchase, Boston, Mass.
Butterworth, C. H. & Co. ("American"), Camden, N. J
Chicago White Lead & Oil Co., Chicago, Ill.
Chicago Wood Finishing Co., 1216 Elston, av, Chicago, Ill.
Connors, Wm. Paint Mfg. Co. (American Seal White Lead), Troy, N. Y.
Devoe, F. W. & C. T. Raynolds Co., 103 Fulton, New York, & Chicago, Ill.
Dicks & Wiggim Co., Dayton, O.
Felton, Sibley & Co., 136 N 4th, Phila, Pa.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila.,** Pa. (See adv. index, end of book)
Fuller's Geo., Sons, Hallowell, Me.
Grote, Geo. W. & Co. (Stone), 432 E 102d, New York
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Hoffman, J. W. Co., 6 Medford, Boston, Mass.
Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.
Kent & Purdy Paint Co., 701 N 2d, St. Louis, Mo.
Lancaster Paint & Glass Co., Lancaster, Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
Mark, Jacob Sons (Blue Putty), 1233 2d av, New York
**NEVIN, T. H. CO., North Side, Pittsburg,** Pa. (See adv. index, end of book)
**RUTLAND FIRE CLAY CO., Rutland, Vt.** (See adv. index & branch offices, end of book)
Wilhelm, A. Co., Reading, Pa.

### 9296—Putty Mfrs. (Stovemakers')

Cleveland Stone Co., Hickox bldg, Cleveland, O.
Colebrook, W. H. & Son ("Colebrook"), 1419 Orange, Syracuse, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Harlem Roofing & Waterproofing Co., 23 E 137th, New York
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R R, Phila., Pa.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)

### Putty Ornaments

(See Ornaments, Composition)

### 9297— Putty Powder

Anderson Bros., Jamaica Plain, Boston, Mass.
**DOGGETT, STANLEY, 101 Beekman, New** York. (See adv. index, end of book)
Harrison Supply Co., Boston, Mass.
Harshaw, Fuller & Goodwin Co., Cleveland, O
Johnston & Jennings (All Grades), Cleveland Ohio
Pittsburgh Crushed Steel Co., Pittsburgh, Pa
Rhodes, Jas. H. & Co. (Green & White), 162 W Kinzie, Chicago, Ill.

### 9298— Putty (Roof)

Armitage Mfg. Co., Richmond, Va.
**FRENCH, SAMUEL H. & CO., 4th** & Callowhill, Phila., Pa. (See adv. index, end of book)
McDonough, S. E. Co., Hazlewood, Pittsburg, Pa.
**MILWAUKEE CORRUGATING CO.** (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)

### 9299— Pyrites of Iron

Arminus Chemical Co., 56 Wall, New York. Mines: Mineral, Va.
Davis Sulphur Ore Co., 82 Beaver, New York
Sulphur Mining & Railroad Co., Richmond, Va.

### 9300— Pyrometers

American Steam Gauge & Valve Mfg. Co., Boston, Mass.
Ashcroft Mfg. Co., 85 Liberty, New York
**BRISTOL CO. ("Wm. H. Bristol's"** Indicating Electric, Recording Electric & Combination Indicating & Recording), Waterbury, Conn. (See adv. index & branch offices, end of book)
Brown Instrument Co. ("Brown", Electric Recording, etc.), 313 Walnut, Phila., Pa.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Du Vivier, Ernest H., 30 Church, New York
Eimer & Amend, 18th & 3d av, New York
Engelhard, Charles (Imported "Heraeus Le Chatelier"), 30 Church, New York
Esterline Company, Inc. ("Esterline", Recording), Lafayette, Ind.
Hoskins Mfg. Co. (Thermo-Electric), Detroit, Mich.
**INDUSTRIAL INSTRUMENT CO., Foxboro, Mass.** (See adv. index & branch offices, end of book)
**LEEDS & NORTHRUP CO. (Electric** Resistance), Stenton av, Gtn., Phila., Pa. (See adv. index, end of book)
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
**MORSE THERMO GAGE CO. (Optical),** 208 E State, Ithaca, N. Y. (See adv. index, end of book)
**NATIONAL GAUGE CO. ("National"), 168** 8th, Brooklyn, N. Y. (See adv. index, end of book)
Oelschlaeger Bros. ("Importers"), 110 E 23d, New York
Pelton & Crane, Detroit, Mich.
Phila. Thermometer Co., 54 N 9th, Phila., Pa.
Price Electric Co., Lakeview, Cleveland, O.
**QUEEN & CO. (Inc.). 1211 Arch,** Phila., Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. (Electric, Special for Bake Oven; Expansion & Mercury), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**SHORE INSTRUMENT & MFG. CO.** ("Pyroscope" Optical Pyrometers for High Temperatures), 557 W 22d, New York. (See adv. index & branch offices, end of book)
Scott, C. U. ("Scott" Base Metal), Davenport, Iowa
Stupakoff, S. H. ("Le Chatelier"), Pittsburg, Pa.
Tagliabue, Chas. J. Mfg. Co. (All Kinds for All Purposes), 396 B'way, New York
Taylor Instrument Cos. ("Foster," "Tycos"), Rochester, N. Y.
Thwing, Chas. B. (Electrical), 445 N 5th, Phila., Pa.
Uehling Instrument Co. (Pneumatic Recording), Passaic, N. J.

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Weiskopf, Abraham, 16 S Clinton, Chicago, Ill.
Wilson-Maeulen Co. (Imported "Advance," Electric), 1 E 42d, New York
Zaubitz, August (Up to 3000 Degrees Fahr.), 95 Cliff, New York

## 9301— Pyroxylin

**INTERNATIONAL SMOKELESS POWDER** & Chemical Co., 140 Cedar, New York

## 9302— Quarries

(See Cement Manufacturers; Granite Producers, etc.; Lime Manufacturers; Marble Producers; Roofing Slate Manufacturers; Stone Producers)

## 9303— Quarry Equipment

**MARSH-CAPRON MFG. CO., 480 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH CO., 975 Old Colony bldg,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 9304—Quarry Hoists & Machinery

(See Hoists of Various Kinds; Cranes of Various Kinds; Drills, Rock; Derricks; Engines, Hoisting, Etc).

## 9305—Quartermaster's Department, U. S. Army

(Officers of Quartermaster's Department, U. S. Army, who have charge of construction work.)

Lieut.-Col. Fred'k G. Hodgson, Phila., Pa.
Lieut.-Col. George Ruhlen, Washington, D. C.
Major Joseph T. Crabbs, Washington, D. C.
Major Thomas Cruse, Omaha, Neb.
Major Thomas H. Slavens, Washington, D. C.
Major R. B. Turner, Boise, Idaho
Capt. Chas. C. Ballou, Fort Niagara, N. Y.
Capt. Ola W. Bell, Jefferson Barracks, Mo.
Capt. H. D. Berkeley, Fort Oglethorpe, Ga.
Capt. Harry G. Bishop, Fort Stevens, Ore.
Capt. J. J. Boniface, Fort Assiniboine, Mont.
Capt. Albert S. Brooks, Fort Douglas, Utah
Capt. Jos. C. Castner, Fort Thomas, Ky.
Capt. Harry B. Chamberlin, Columbus Barracks, Ohio
Capt. B. F. Cheatham, San Francisco, Cal.
Capt. Bertram T. Clayton, New Orleans, La.
Capt. Wm. E. Cole, Fort Des Moines, Iowa
Capt. Edgar T. Collins, Fort Wm. Henry Harrison, Mont.
Capt. G. Maury Cralle, Fort William H. Seward, Alaska
Capt. Wm. M. Cruikshank, Forts Howard, Armistead, Carroll & McHenry, Md.
Capt. Jos. T. Davidson, Fort Screven, Ga.
Capt. Wm. D. Davis, Sheridan, Wyo.
Capt. Clarence R. Day, Fort Huachuca, Ariz.
Capt. Moor N. Falls, Governors Island, N. Y.
Capt. Henry B. Farrar, Fort Du Pont, Del.
Capt. Lawrence J. Fleming, Fort Sam Houston, Texas
Capt. Chas. G. French, Fort Wayne, Ind.
Capt. Louis F. Garrard, Jr., Mobile, Ala.
Capt. George L. Goodale, Boston, Mass.
Capt. Verling K. Hart, Cheyenne, Wyo.
Capt. Harold P. Howard, Fort Walla Walla, Wash.
Capt. Evan H. Humphrey, Honolulu, Hawaii
Capt. Clyde D. V. Hunt, San Diego, Cal.
Capt. B. B. Hyer, Fort Myer, Va.
Capt. Robert H. Kelton, Fort Monroe, Va.
Capt. Amos W. Kimball, St. Paul, Minn.
Capt. Chas. H. Martin, Vancouver Barracks, Wash.
Capt. L. S. Miller, Fort Barrancas, Fla.
Capt. Jas. E. Normoyle, Fort Leavenworth, Kans.
Capt. Geo. H. Penrose, Fort Benjamin Harrison, Ind.
Capt. F. W. Phisterer, Fort Columbia, Wash.
Capt. Hiram McL. Powell, Fort Bliss, Tex.
Capt. Leon S. Roudiez, Fort Robinson, Neb.
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Capt. Ralph R. Stogsdall, Fort Crook, Neb.
Capt. Ernest R. Tilton, Fort Totten, N. Y.
Capt. Chas. C. Walcutt, Jr., Prescott, Ariz.
Capt. Wm. Weigel, Fort Sheridan, Ill.
Capt. Walter M. Whitman, Fort Riley, Kans.
Capt. W. T. Wilder, Fort Slocum, N. Y.
Lieut. John C. Ashburn, Plattsburg Barracks, N. Y.
Lieut. David H. Biddle, Fort Meade, South Dak.
Lieut. Earl Biscoe, Fort Hunt, Va.
Lieut. A. T. Bishop, Fort De Soto, Fla.
Lieut. W. A. Blain, Fort Ontario, N. Y.
Lieut. James Blyth, Fort McIntosh, Tex.
Lieut. Arthur L. Bryant, Fort Du Pont, Del.
Lieut. Chas. C. Burt, Fort Worden, Wash.
Lieut. Bowers Davis, Fort Lincoln, N. Dak.
Lieut. J. C. Fairfax, Fort Logan, Colo.
Lieut. Wm. R. Harrison, Fort Caswell, N. C.
Lieut. Ralph E. Herring, Fort Washington, Md.
Lieut. Milton G. Holliday, Fort Ethan Allen, Vt.
Lieut. W. E. Holliday, Fort McPherson, Ga.
Lieut. Henry S. Kilbourne, Fort Rodman, Mass.
Lieut. John McBride, Fort McKinley, Me.
Lieut. William H. Menges, Key West Barracks, Fla.
Lieut. Willis C. Metcalf, Fort Adams, R. I.
Lieut. William N. Michel, Fort Moultrie, S. C.
Lieut. H. G. Miller, Fort Flagler, Wash.
Lieut. Geo. L. Morrison, Fort Wingate, N. Mex.
Lieut. John M. Page Fort Greble, R. I.
Lieut. Wm. Paterson, Fort Hancock, N. J.
Lieut. John S. Pratt, Fort Mansfield, R. I.
Lieut. Granville Sevier, Fort Casey, Wash.
Lieut. John P. Spurr, Fort Terry, N. Y.
Lieut. D. W. Strong, Fort Brady, Mich.
Lieut. Geo. H. Terrell, Fort H. G. Wright, N. Y.
Lieut. Matthew H. Thomlinson, Alcatraz Island, Cal.
Lieut. Robert L. Weeks, Fort Logan H. Roots, Ark.
Lieut. Chas. D. Winn, Fort Preble, Me.
Lieut. Robert F. Woods, Fort Williams, Me.
Lieut. A. J. Woude, Fort Keogh, Mont.

## 9306— Quartz

Abrasive Material Co., Philadelphia, Pa.
Ashland Emery & Corundum Co., Perth Amboy, N. J.
Adams, Enos & Co., Bennington, Vt.
Bridgeport Wood Finishing Co., New Milford, Conn.
Dunkel, S. P. & Son, Baltimore, Md.
Garden City Sand Co., Chamber of Commerce, Chicago, Ill.
Philadelphia Quartz Co., Phila., Pa., & Anderson, Ind.
Quarts Glass & Mfg. Co. (Pulverized & Floated White Silica & Red Jasper), Los Angeles, Cal.
Wausau Quarts Co., Wausau, Wis.
Wausau Silica Co. (Pulverized), Wausau, Wis.
Wiarda, John C. & Co., 259 Green, Brooklyn, N. Y.
Wilson-Maeulen Co. (Electro & Transparent), 1 E 42d, New York

## 9307 Quartz (Glass)

Berge, J. & H., 95 John, New York
Eimer & Amend, 18th & 3d av, New York
Englehard, Chas., 30 Church, New York
Greiner, Emil Co., 45 Cliff, New York
Scientific Materials Co., Pittsburg, Pa.
Thomas, Arthur H. Co., 12th & Walnut, Phila., Pa.
Wilson-Maeulen Co., 1 E 42d, New York

## 9307a— Quick Silver

Metals Buying & Refining Co. ("Refining"), San Francisco, Cal.

## 9308— Quoits

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index & branch offices, end of book)
Blacklock Foundry, South Pittsburg, Tenn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Harkins, T. B. Foundry Co., Indiana, Pa.
Indiana Foundry Co., Indiana, Pa.
Kramer Bros. Foundry Co., Dayton, O.
Phillips & Buttorff Mfg. Co., Nashville, Tenn.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Sperry, D. R. & Co., Batavia, Ill.
Swett, A. L. Iron Works, Medina, N. Y.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## 9309— Rabbits (Iron)

Illinois Iron & Bolt Co., Carpentersville, N. Y.

## 9310— Rackets (Sash)

General Railway Supply Co. (Roller Deck), 204 Dearborn, Chicago, Ill.

## 9311— Racks (Armature)

American General Engineering Co. ("A. G. E."), 253 B'way, New York

## 9312— Racks (Baggage)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
Rostand Mfg. Co. ("McCarthy's" Hat & Baggage Racks for Passenger Cars), Milford, Conn.

## Racks (Bicycle)

(See Stands, Bicycle)

## 9313— Racks (Bar Steel)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

## 9314—Racks (Book & Catalogue)

Tatum, Sam'l C. Co., Cincinnati, O.

## 9314a— Racks (Bottle)

**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of book)

## 9315— Racks (Car)

Dayton Mfg. Co. (Car Basket Racks), Dayton, O.
Wallace Supply Co. ("Wallace" Parcel, etc.), 120 S Jefferson, Chicago, Ill.

## 9316— Racks (Circular)

Weaver Hardware Co. ("Rochester"), Rochester, N. Y.

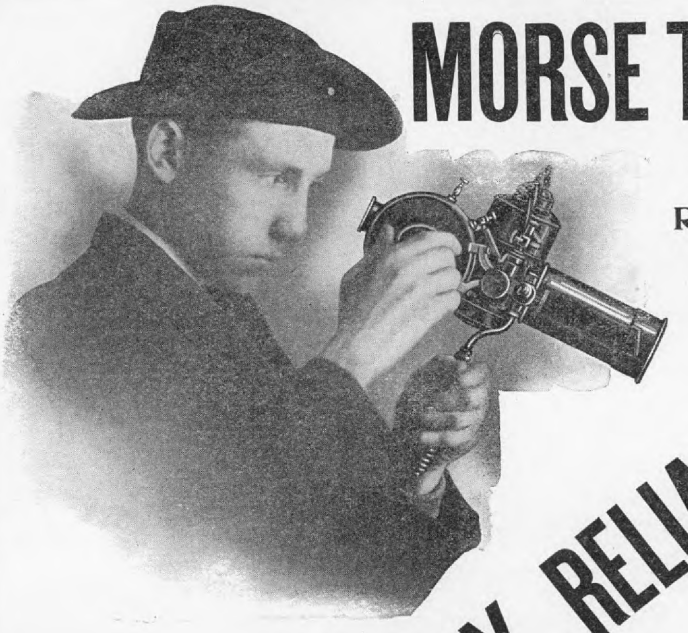
## 9317— Racks (Core)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co., So. Framingham, Mass.
Paxson, J. W. Co. ("Moyer"), Phila., Pa.
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO.** (Metal), Grand Rapids, Mich. (See adv. index, end of book)

## 9318— Racks (Cut)

Blount & Lovell, Boston, Mass.
**BOSTON GEAR WORKS (Brass &** Steel), Norfolk Downs, Boston, Mass. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. Y. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO.** (Spur, etc.), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**DAVIS, RODNEY, 626 Race, Phila.,** Pa. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Small**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FOOTE BROS. GEAR & MACHINE CO.,** 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO., 1011 Wash**ington boul., Chicago, Ill. (See adv. index, end of book)
Gould & Eberhardt, Newark, N. J.
Horsburgh & Scott Co., 5114 Hamilton, Cleveland, O.
James, D. O. Mfg. Co., 1120 W Monroe, Chicago, Ill.
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**NUTTALL, R. D. CO. (Machine Cut),** Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
Philadelphia Gear Works (Inc.) (Brass, etc.), 12th & Vine, Phila., Pa.
Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.
Simonds Mfg. Co., Pittsburg, Pa.
**STANDARD GAUGE STEEL CO. (Fin**ished), Beaver Falls, Pa. (See adv. index, end of book)
Walcott, Geo. D. & Son, Jackson, Mich.

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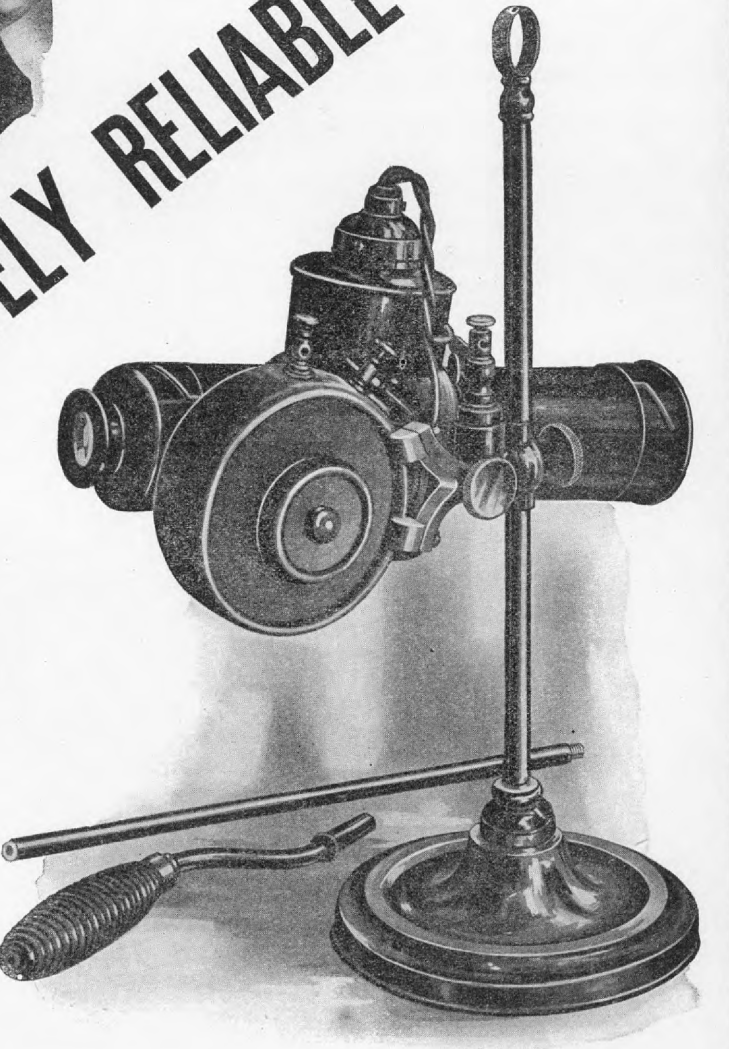


# MORSE THERMO GAGE

(OPTICAL PYROMETER)

Reads all temperatures from first degree of incandescence to highest used in the Arts.

ABSOLUTELY RELIABLE



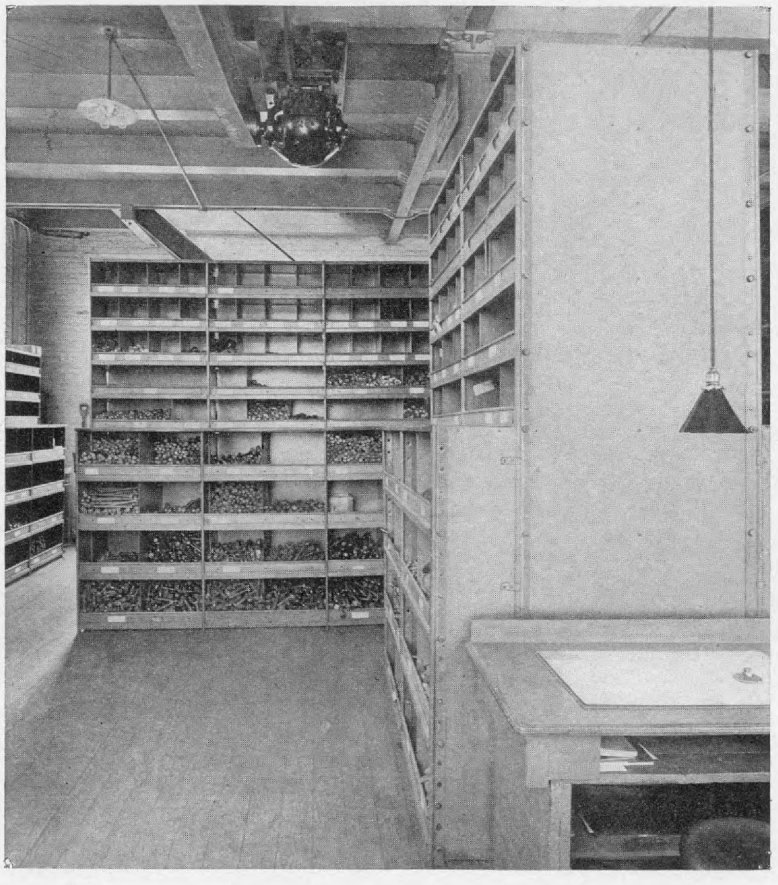
MORSE THERMO GAGE CO.

Ithaca
New York

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# Steel Factory and Stock Room Equipment



## MANUFACTURERS OF

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| STEEL STOCK BINS | STEEL CLOTHES LOCKERS | ENCLOSURE PANELS |
| STEEL TOTE PANS | STEEL DESKS AND TABLES | STEEL BENCH DRAWERS |
| STEEL SHELF BOXES | STEEL BLUE PRINT CABINETS | STEEL SHOP BARRELS |
| STEEL TRUCKS | STEEL LATHE PANS | STEEL TOOL RACKS |

# LYON METALLIC MFG. CO.

CHICAGO OFFICE:
**1013 Marquette Bldg.**

WORKS and GENERAL OFFICES:
**Aurora, Ill.**

NEW YORK OFFICE:
**1369 Hudson Terminal Bldg.**

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## 9319— Racks (Display)

Best, John H. ("Best" Revolving Whip Rack & Display Stand), Galva, Ill.
**Bowser, R. M. & Son ("Bowser" Wire Cloth), Renfrew, Pa.**
**Bryan Novelty Mfg. Co. (Also Newspaper, Oil Cloth, etc.), Bryan, O.**
Indianapolis Corrugating Co. (Rug), Indianapolis, Ind.
Timberlake, J. B. & Sons, Jackson, Mich.

## 9319a— Racks (Filing)

**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)

## 9320—Racks (Folding Clothes)

Bushnell Tank Works, Bushnell, Ill.

## 9321—Racks for Cold Storage Rooms

Koch Butchers' Supply Co., Kansas City, Mo.
Market Forge Co. (Galvanized Iron Coin), **Barrett & Fulton, Boston, Mass.**

## 9322— Racks (Hat & Coat)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Buecher Mfg. Co., Battle Creek, Mich.
**Grab, Victor M. & Co. ("Yale"), Ashland Block, Chicago, Ill.**
McKenna Bros. Brass Co., Pittsburg, Pa.
Montrose, R. W. (Wood), Galien, Mich.
Parks & Parks, Troy, N. Y.
Richards, T. C. Hardware Co. (Wood), Winsted, Conn.
Tucker & Dorsey Mfg. Co. (Wood), Indianapolis, Ind.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 9323—Racks (Hay, Wire & Iron)

Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
**BOLLES, J. E. IRON & WIRE WORKS,** Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., 316 Terrace, Buffalo **N. Y.**
Lansing Wagon Works (Combination Hay & Stock), Lansing, Mich.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Ohio Road Machinery Co. ("Farmer's Friend"), **Oberlin, O.**

## 9324—Racks (Hay & Stock)

Anderson Co., St. Paul, Minn.
Clippinger, A. B. & Son Co., Kansas City.
Dickinson Rack Co., Stockbridge, Mich. Mo.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
Farmers' Handy Wagon Co., Saginaw, Mich.
Lansing Wagon Works, Lansing, Mich.
Patterson Mfg. Co., Holley, Mich.
Prairie State Mfg. Co. ("Prairie", Combination Steel & Wood), **Cedar Rapids, Ia.**
Schairer, Geo. E., Saline, Mich.
Stoughton Wagon Co., Stoughton, Wis.
Walrath, Abram Co., Weedsport, N. Y.

## 9325— Racks (Insulated)

**Fletcher Mfg. Co. ("Fletcher"), Dayton, O.**

## 9325a— Racks (Machine)

**STANDARD GAUGE STEEL CO. (Finished Cut Steel), Beaver Falls, Pa.** (See adv. index, end of book)

## 9326—Racks (Mining Machine)

**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa.** (See adv. index, end of book)

## 9326a—Racks (Newspaper & Magazine)

**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)

## 9327— Racks (Oven)

Battle Creek Oven Rack Co., Battle Creek, Mich.
**Union Steel Screen Co. (Ltd.), Albion, Mich.**

## 9328—Racks (Pattern Storage)

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO.** (Steel), New Britain, Conn. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)

## 9329— Racks (Pipe)

**American Die & Tool Co. (Portable), Reading, Pa.**
**Grabler Mfg. Co. (For Heavy Pipe), Cleveland, O.**
National Mfg. Co. (Wire), Worcester, Mass.

## 9330—Racks (Portable Forge)

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO.** (Steel), New Britain, Conn. (See adv. index, end of book)

## 9331— Racks (Postal Bag)

**Harrison Postal Bag Rack Co., Fond du Lac, Wis.**

## 9332— Backs (Pot Cover)

Lasher Mfg. Co., Davenport, Iowa
Roth Bros., 134 E 24th, New York
Wolverine Mfg. Co. ("Wolverine"), Pittsburg, Pa.

## Racks (Rug)

(See Exhibitors, Rug)

## 9333— Racks (Shoe)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end
Zering, H. Mfg. Co., Cincinnati, O. of book)

## 9334—Racks (Steel Storage)

Kalamazoo Steel Goods Co., Kalamazoo, Mich.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co., So. Framingham, Mass.
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)
Western Tool & Mfg. Co., Springfield, O.

## 9335— Racks (Stock Room)

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO.** (Steel), New Britain, Conn. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO.** (Steel), Grand Rapids, Mich. (See adv. index, end of book)

## 9335a— Racks (Thresher)

Hart Grain Weigher Co., Peoria, Ill.

## 9336— Racks (Tool)

Angle Steel Tool Co. ("Ideal"), Otsego, Mich.
**Cleveland Wire Spring Co. (Sheet Metal), Cleveland, O.**
**DARBY, EDW. & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of
**Davis Mfg. Co., Milwaukee, Wis.** book)
Federal Steel Fixture Co., 4545 W Homer, **Chicago, Ill.**
Kalamazoo Steel Gods Co., Kalamazoo, Mich.
**Keighley, S. Metal Ceiling & Mfg. Co. (Steel Shelf), 824 Locust, Pittsburg, Pa.**
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co. (Steel), So. Framington, Mass.
Massey Machine Co., Watertown, N. Y.
**NEW BRITAIN MACHINE CO. (Portable),** New Britain, Conn. (See adv. index, end of book)
**Ohio Mfg. Co., Painesville, O.**
**Rockford Lathe & Drill Co., Rockford, Ill.**
**TERRELL'S EQUIPMENT CO.** (Steel), Grand Rapids, Mich. (See adv. index, end of book)
Tucker & Dorsey Mfg. Co. ("Danhour's"), Indianapolis, Ind.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book.)**

## 9337— Racks (Towel)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Bogert & Hopper Co. (Wooden), 162 William, Buffalo Mfg. Co., Buffalo, N. Y. New York
**Browne & Dowd Mfg. Co., Meriden, Conn.**
**Cassady-Fairbank Mfg. Co. (Racks & Rollers), 6106 La Salle, Chicago, Ill.**
Estes, E. B. & Sons (Wooden), 74 Warren, New York
**Forsyth Mfg. Co., Buffalo, N. Y.**
Franklin Specialty Co. ("New Imperial" Roller Nickel Plated), Reading, Pa.
Landers, Frary & Clark (Polished, Solid Brass), New Britain, Conn.
Lewis, Samuel ("Lockit" Roller), 5 Front, Phillips, A. J. Co., Fenton, Mich. New York
**Rocky Hill Hardware Co. (Towel & Clothes), Rocky Hill, Conn.**
**Taplin Mfg. Co. ("Ideal"), New Britain, Conn.**
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
Wire Goods Co. ("Ideal"), Worcester, Mass.

## 9338—Racks (Wine Bottle)

Bataille, Achille & Co., 587 Hudson, New York
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)

## 9339— Radiator Bases

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## Radiator Bronze

(See Bronze Powders)

## 9340—Radiator Dust Catchers

Hawkins-McCain Co., Indianapolis, Ind.

## 9340a—Radiator Guards (Wire)

(See Radiator Shields)

## 9340b—Radiator Screens (Ornamental)

(See Radiator Shields)

## 9341— Radiator Shields

**Acme Fancy Wire Works (Also Guards), Detroit, Mich.**
American Radiator Co., 282 Michigan av, Chicago, Ill.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**Buffalo Wire Works Co. (Also Guards), Buffalo, N. Y.**
**Detroit Arch'l Iron Works Co. (Also Guards), Detroit, Mich.**
**ESTEY WIRE WORKS CO. (Also** Guards), 59 Fulton, New York. (See adv. index, end of book)
Foster, Wm. & Sons Co. (Inc.), Springfield, Ill.
**Haines & Co., 1933 W Lake, Chicago, Ill.**
Hawkins-McCain Co., Indianapolis, Ind.
**Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.**
**HOWARD & MORSE (Also Guards),** 46 Fulton, New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WORKS** (Wire), 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Johnson, W. H. & Son Co. ("Acme"), Indianapolis, Ind.
Kauffman Heating & Engineering Co., St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO. (Also** Guards), Hamilton, O. (See adv. index, end of book)
Monash-Younker Co. ("Dixon" & "Monash"), 1407 W Jackson boul, Chicago, Ill.
**Prentice, L. H. Co., 34 Sherman, Chicago, Ill.**
**Prox, Frank Co., Terra Haute, Ind.**
**Rutherford, J. & Son ("Star"), Akron, O.**
**Tuttle & Bailey Mfg. Co. (Ornamental Cast Iron or Bronze). 83 Beekman, New York**
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)
Wisconsin Iron & Wire Works (Also Guards), Milwaukee, Wis.

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## 9342—Radiator Union Nipple Clutch

**SIMMONS, JNO. CO. ("Benton" for** Radiator Valves), 106 Centre, New York **(See adv. index, end of book)**

## 9343—Radiators (Automobile)

(See also Radiators, Water Cooling)

Kinsey Mfg. Co. ("Kinwood"), Toledo, O.
**WHITLOCK COIL PIPE CO., Hartford, Conn. (See adv. index, end of book)**

## 9344— Radiators (Electric)

**CUTLER-HAMMER MFG. CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO. (Luminous),** Schenectady, N. Y. (See adv. index & branch offices end of book)
Simplex Electric Heating Co., Boston, Mass.

## Radiators (Electric Car)

(See Heaters, Electric Car)

## 9345— Radiators (Gas)

Adler, H. Co. ("Acme"), Carnegie, Pa.
Albany Foundry Co. ("Argand"), Albany, N. Y.
American Beauty Stove Co. ("American Beauty"), Erie, Pa.
American Stove Co. ("Reliable," "Clark," "Quick Meal," "Dangler," "National," "Standard"), 414 N 6th, St. Louis, Mo.
Clark, Geo. M. & Co. ("Jewell"), 82 Michigan av. Chicago, Ill.
Clow, J. B. & Sons Co. (Combination Gas & Steam), Chicago, Ill.
Crane, Wm. M. Co., 16 W 32d, New York
Dangler Stove Co. (Branch), Cleveland, O.
Detroit Heating & Lighting Co., Detroit, Mich.
Eriez Stove & Mfg. Co., Erie, Pa.
Grinberg Bros. ("Enterprise"), 154 South, New York
New Yor Gas Stove Works, 243 Water, New
Ringen Stove Co., St. Louis, Mo. York
Schneider & Trenkamp Co. ("Reliable"), Cleveland, O.
Southard-Robertson Co., 257 Water, New York
Union Stove Works, 70 Beekman, New York
Weiskittle, A. & Son Co. ("Fire King"), Baltimore, Md.

## 9346—Radiators (Hot Air)

International Radiator Co., Inc. (Sheet Steel), Wilmington, Del.

## 9347—Radiators (Hot Water & Steam)

American Radiator Co. ("American"), General Office, 282 Michigan av, Chicago, Ill.
Atlantic Radiator Co., Huntingdon, Pa.
Buckingham, Routh Co. ("Gold" Sheet Iron), New Haven, Conn.
Buffalo Radiator Co., Buffalo, N. Y.
Cenral Radiator Co., 90 West, New York
Continental Radiator & Foundry Co., St. Louis, Mo.
Fowler & Wolfe Mfg. Co. (Wall Radiators), Phila. Bourse, Phila., Pa.
Fuller-Warren Co. ("Regina," "Fowler & Wolfe" & "Regal"), Milwaukee, Wis.
Gibson Iron Wks. ("Exeter"), Gibson City, Ill.
Gurney Heater Mfg. Co. ("Narrow" & "Duet"), 188 Franklin, Boston, Mass.
Hopson & Chapin Mfg. Co. (Hot Water), New London, Conn.
Iowa Radiator Co., Cedar Rapids, Ia.
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Knapp Holding Co. ("Knapp" Center Feed), Minneapolis, Minn.
McCrum-Howell Co. ("Richmond," Direct or Indirect Walls), 103 Park av, New York
McLain. J. H. Co. ("Interchange"), Canton, Ohio
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Radiator Co. ("Monarch," "Solus" & "Universal"), Johnstown, Pa.
National Tube Co. (Staggard Tube, Circular, Coil, etc.), Pittsburg, Pa.
New York Radiator Co., Utica, N. Y.
Novelty Iron Co. (Emerald), Canton, O.
Page, W. H. Boiler Co. ("Exeter," "Beacon," "Puritan," "Regal" & "Triad"), 15 Murray, New York
Phila. Hardware & Malleable Iron Works, Ins. ("Keystone"), 9th & Jeff'n, Phila, Pa.
Pierce, Butler & Pierce Mfg. Co. ("Lauraine" & "Syracuse"), Syracuse, N. Y.
Pressed Radiator Co. of America, Pittsburg,
Prox, Frank Co., Terre Haute, Ind. Pa.
Reading Radiator Co. ("Ducol," "Tricol" & "Tropic"), Reading, Pa.
Shirley Radiator & Foundry Co., Shirley, Ind.
Smith, H. B. Co. ("Coronet," "Crown," "Champion Union," "Imperial Union," "Royal Union," "Sovereign Union," "Union," "Reed," "Whittier," "Gold Pin," "School Pin" & "Utica Pin"), Westfield, Mass., & 39 E Houston, New York
South Park Foundry & Machine Co. ("Bon Ton" & "Rising Sun"), St. Paul, Minn.
Union Radiator Co. ("Concord"), Johnstown, Pa.
U. S. Radiator Corp. ("Puritan", "Florentine", "Sun", "Triton"), Detroit, Mich.
Utica Heater Co., Utica, N. Y.
Walker & Pratt Mfg. Co., Boston, Mass.
Walworth Mfg. Co., 132 Federal, Boston, Mass
Williamsport Radiator Co., Williamsport, Pa.

## 9348—Radiators (Stove Pipe)

Barber Mfg. Co., Ashtabula, O.
Castle, Wilmot Co., Rochester, N. Y.
Cole Mfg. Co., 3218 S Western av, Chicago, Ill.
Enterprise Foundry Co., Rochester, N. Y.
Excelsior Stove & Mfg. Co., Quincy, Ill.
Hemp & Co., St. Louis, Mo.
Independent Register Co., Cleveland, O.
Kinne Mfg. Co., Minneapolis, Minn.
Rochester Radiator Co., 268 State, Rochester, N. Y.
Ross Radiator Co. ("Ross" Smokepipe), Newburgh, N. Y.

## 9349—Radiators (Water Cooling)

A. Z. Co., 527 W 56th, New York
Bliss-Chester Co., Providence, R. I.
Borbein, H. F. & Co., 2109 N. 9th, St. Louis, Mo.
Brennan Motor Co., Syracuse, N. Y.
Briscoe Mfg. Co., Detroit, Mich.
Detroit Auto Specialty Co. ("Honeycomb"), Detroit, Mich.
Fedders Mfg. Works ("Honeycomb"), Buffalo,
Hayes Mfg. Co., Detroit, Mich. N. Y.
Hussey Drop Forge Mfg. Co., Cleveland, O.
Janney, Steinmetz & Co., Phila., Pa.
Kinsey Mfg. Co. ("Kinwood"), Toledo, O.
Long Mfg. Co., 381 Wabash av, Chicago, Ill.
Mayo Radiator Co., New Haven, Conn.
Noye Mfg. Co., Buffalo, N. Y.
Rands Mfg. Co., 55 Macomb, Detroit, Mich.
Rome-Turney Radiator Co., Rome, N. Y.
Springfield Metal Body Co., Springfield, Mass.
Tragesser, John, Steam Copper Works, 447 W 26th, New York

## 9350— Radium

Eimer & Amend, 18th & 3d av, New York
Fuerst Bros. & Co., 2 Stone, New York

## 9351—Radius Planer Attachments

Underwood, H. B. & Co., 1023 Hamilton, Phila., Pa.

## Rail Bond Testers

(See Instruments, Electrical Testing & Measuring)

## 9352 Rail Bonds

**AMERICAN STEEL & WIRE CO.** ("United States" & "Crown" Solid Flexible Copper, Tubular Terminal, Multi-Terminal, Twin Terminal, Triple Terminal, Quadruple Terminal, Soldered), Commercial Nat. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Anderson, Albert & J. M. Mfg. Co., 287 A, S B, Boston, Mass.
Brown, Harold P. ("Brown," Plastic, Plastic Plug, Semi-Plastic & "Brown" Solid Copper), 120 Liberty, New York
Chase - Shawmut Co. ("Shawmut" Soldered Flexible), Newburyport, Mass.
Clark Electric & Mfg. Co. ("Clark" Soldered). 149 B'way, New York
Electric Railway Improvement Co. (Copper, Electrically Welded & Electrically Brazied), Cleveland, O.
Electric Service Supplies Co. ("Protected"). 1024 Filbert, Phila., Pa.
Eureka Tempered Copper Works ("The Eureka"), North East, Pa.
Falk Company, Milwaukee, Wis.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Goldschmidt Thermit Co. ("Thermit," Welded), 90 West, New York
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Lorain Steel Co. ("Lorain," Electrically Braized), Johnstown, Pa.
Lord Mfg. Co. ("Thomas" Laminated Sol-Girder Rails), Manhattan bldg, Chicago, Ill.
Millbury Steel Foundry Co. (Steel Terminal), Millbury, Mass.
Ohio Brass Co. (All Wire), Mansfield, O.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Wendell & MacDuffie, 50 Church, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv index & branch offices, end of book)

## 9353— Rail Joints

Atlas Railway Supply Co. ("Atlas," for Tee or Girder Rails), Manhattan bldg., Chicago, Ill.
Buda Co., Railway Exch bldg, Chicago, Ill.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co. ("Duquesne"), Pittsburg,
Colorado Fuel & Iron Co., Denver, Colo. Pa.
**FAIRBANKS, MORSE & CO.,** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falk Co. (Cast Welded, Continuous & Insulated), Milwaukee, Wis.
Fisher & Norris ("Triple Fish," "Compromise," "Eagle"), Trenton, N. J.
Goldschmidt Thermit Co. ("Thermit"), 90 West, New York
Illinois Steel Co., 115 Adams, Chicago, Ill.
Lackawanna Steel Co., Buffalo, N. Y.
Lorain Steel Co. (Electrically Welded), Johnstown, Pa.
Manhattan Railway Supply Co. ("Manhattan," Rolled Steel Standard Joint), 2 Rector, New York
Penna. Steel Co., 1421 Chestnut, Phila., Pa.
Q. & C. Co. ("Q. & C. Bonzano," & Rolled Steel), 90 West, New York
Rail Joint Co. (Continuous "Weber" & "Wolhaupter"), 185 Madison av, New York
Railroad Supply Co. (Fibre Insulation), 215 Dearborn, Chicago. Ill.
Ramapo Iron Works, Hilburn, N. Y., & Niagara Falls, N. Y.
Western Tool & Forge Co. (Insulated), Brackenridge, Pa.

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ERNST WIENER
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## 9354—Rail Joints (Continuous)

Hoskins Rail Joint Co. (Continuous Girder), 12 State, Chicago, Ill.
Lorain Steel Co. (Electrically Welded), Johnstown, Pa.
Rail Joint Co. ("Weber" & "Wolhaupter"), 185 Madison av, New York

## 9355—Rail Mills (Iron & Steel)

(This List Contains Only the Mills that Roll Rails; see also Rails, Steel)

American McKenna Process Co. ("McKenna" Process Renewed Steel Rails), Milwaukee, Wis.
Atlanta Steel Co. (Light Steel T Rails), Atlanta, Ga.
Bethlehem Steel Co. (Standard Sections, Open Hearth, Open Hearth Nickel Steel & Nickel Chrome Steel Rails), South Bethlehem, Pa.
Buckeye Rolling Mill Co. (Light Rails, 12-16-20-25-30 & 40 lbs.), Steubenville, Ohio. Mills: Newark, Ohio
Buffalo Steel Co. (Bessemer) Steel), 12 to 30 lbs., Tonawanda, N. Y.
Calumet Steel Co. (Light Bessemer Steel Rails, 8 to 20 lbs.), Chicago Hgts., Ill.
Cambria Steel Co. (Bessemer & Open Hearth Steel T Rails, 8 to 100 lbs.), Johnstown, Pa.
Carnegie Steel Co. (Bessemer Standard Sections of Steel Rails, 50 lbs. & Heavier & Light Sections under 50 lbs.), Pittsburg, Pa.

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Colorado Fuel & Iron Co. (Standard Sections of Bessemer & Open Hearth Steel Rails & Light Mine Rails), Denver, Colo.
Hirsch Rolling Mill Co. (Light Iron & Steel Rails), St. Louis, Mo.
Hollidaysburg Iron & Steel Co. (Flat & Small Iron T Rails), Hollidaysburg, Pa.
Illinois Steel Co. (Bessemer & Open Hearth Standard Sections 50 to 100 lbs., Bessemer Light Rails 12 to 45 lbs.), Chicago, Ill.
Interstate Iron & Steel Co. (Light Bessemer Steel Rails), 1st Nat. Bank bldg., Chicago.
Jones & Laughlin Steel Co. (Bessemer & Open Hearth Light Steel Rails Up to 42 lbs.), Pittsburg, Pa.
Judson Mfg. Co. (Light Iron Rails), San Francisco, Cal.
Knoxville Iron Co. (Light Iron T Rails, 12 to 30 lbs.; also Street Rails), Knoxville, Tenn.
Lackawanna Steel Co. Bessemer & Open Hearth Standard Sections of Steel Rails; also Light Steel Rails, 12 to 65 lbs.), Buffalo, N. Y.
Linton Rolling Mill Co. (Steel Rails, 12 to 40 lbs.), Linton, Ind.
Lorain Steel Co. (Girder & High Tee), Johnstown, Pa.
Maryland Steel Co. (Standard Sections of Steel Rails), Sparrows Point, Md., & Girard bldg., Phila., Pa.
National Tube Co., of Ohio (Light Rails), Lorain, O.
Ohio Falls Iron Co. (Light Iron Rails), New Albany, Ind.
Penna. Steel Co. (Standard Sections of Bessemer & Open Hearth Steel Rails), 1421 Chestnut, Phila., Pa.
Rail Joint Co. (Tram Rails), 185 Madison av, New York
Seattle Steel Co. (Light Steel T Rails, 8-12-16 & 20 lbs.), Youngstown, Wash.
Standard Chain Co. (Light Iron T Rails), Pittsburg, Pa.
Sweets Steel Co. (Light Steel 12 to 20 lbs.), Williamsport, Pa.
Tennessee Coal, Iron & Railroad Co. (Standard Sections of Bessemer & Open Hearth Steel Rails & Light Rails, Up to 100 lbs.), Birmingham, Ala.
United States Rail Co. (Renewed Steel Rails 8 to 40 lbs.), Cumberland, Md.
Western Rolling Mill Co. (Iron T Rails, 8 to 20 lbs.), Denver, Colo.
West Virginia Rail Co. (Steel Rails, 16 to 30 lbs.), Huntington, W. Va.

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**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Winan's Improved Patent Rail Joint Co. (A Base Supported), Portland, Ore.

## Railings (Altar)

(See Brass Altar Rails & Pulpits)

## Railings (Brass)

(See Bank & Office Railings)

## 9356—Railings (Iron, Brass & Bronze Pipe)

**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Buffalo Wire Works Co., Buffalo, N. Y.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
**GORHAM CO. ARCH'L BRONZE** Brass & Bronze Only), 5th av & 36th. New York. Works: Providence, R. I. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**SIMMONS, JOHN CO. (Iron Pipe of** All Kinds), 104-110 Centre, New York. (See adv. index, end of book)
Southwest Wire & Iron Works Co., Kansas City, Mo.
**WRIGHT WIRE CO., (& Fixtures),** Worcester, Mass. (See adv. index & branch offices, end of book.)

## 9356a—Railings (Railway Coach & Platform)

**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)

## 9357—Railings (Tool Room)

**STANDARD CO., Railway Exchange bldg.,** Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O. (See adv.** index & branch offices, end of book)

## 9358— Railroad Curves

**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)

**SOLTMANN, E. G.**
(Metal & Wood; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 9359—Railroad Equipments (Second Hand)

Adams, Geo. J., 39 South, New York
Apex Equipment Co., 11 B'way, New York
Atlantic Equipment Co. (Locomotives, Cars, Relaying Rails, etc.), 30 Church, New York
Birmingham Rail & Locomotive Co. (Locomotives, Relaying Rails, Frogs, Switches, etc.), Birmingham, Ala.
Block-Pollak Iron Co., Carthage, Cincinnati, O.
Briggs, Marvin, 154 Nassau, New York
Carey, Thos. F. (Rails, Locomotive, Passenger, Freight & Dump Cars, etc.), 141 Milk, Boston, Mass.
**CARLIN'S, THOS. SONS CO., 1610 River** av (North Side), Allegheny, Pa. (See adv. index, end of book)
Cincinnati Equipment Co. (Locomotives, Cars, Steam Shovels, etc.), Cullums Sta., Cincinnati, Ohio
Conard, Thos. P. & Co., 2 S. 15th, Phila., Pa.
Cox, Justice, Jr., & Co. (Cars, Locomotives, Relaying Rails, etc.), Phila., Pa.
Dallett & Co., Harrison bldg., Phila., Pa.
Dana & Co., 32 Broadway, New York
Dilley Foundry Co., Pine Bluff, Ark.
Dreifus, Emanuel, & Co. (Relaying Rails), Arcade bldg., Phila., Pa.
Fitz-Hugh, Luther Co. (New & Second-Hand Locomotives, Cars, etc.), Monadnock blk, Chicago, Ill.
Foster, L. B. & Co. (Steel & Relaying Rails), Park bldg, Pittsburg, Pa.
Green, L. A. Co. (New & Relaying Rails, Frogs, Switches, etc.), Park bldg, Pittsburg, Pa.
Gerson I. & Son, Toledo, O.
Hirsch, Cal, & Sons Iron & Rail Co., St. Louis, Mo.
Hirsch, I. C. Iron, Steel & Rail Co. (Cars, Locomotives, Relaying Rails, Track Materials, etc.), Cincinnati, O.
Hofius Steel & Equipment Co., Seattle, Wash.
Hyde Bros. & Co. (Relaying Rails, etc.), Empire bldg, Pittsburg, Pa.
Interstate Car Co., Indianapolis, Ind.
Jones, J. B. & Co. (Relaying Rails), Pittsburg, Pa.
Joseph, Isaac Iron Co., 525 Reading road, Cincinnati, O., & Monadnock blk, Chicago, Ill.
Joseph, Jos. & Bros. Co., Cincinnati, O.
Kaiser, A. V., & Co., Drexel bldg., Phila., Pa.
Kenly, W. K. Co. (Relaying Rails, etc.), 164 Dearborn, Chicago, Ill.
Keystone Iron & Steel Co. (Second Hand Relaying Rails), Pittsburg, Pa.
Kilby Locomotive & Machine Works, Anniston, Ala.
Leonard, John & Co. (Iron & Steel Rails), 149 B'way, New York
Levis, Henry & Co. (Relaying Rails, etc.), 26 S 15th, Phila., Pa.
MacCleary, J. H. (Locomotives, Cars, etc.), Suffolk, Va.
Males Co. (Locomotives, Cars, Rails, Steam Shovels, etc.), Cincinnati, O., & 26 Cortlandt, New York
Miller Supply Co., Huntington, W. Va.
Mitshkun, M. Co., Detroit, Mich.
Ohio Iron & Metal Co., 1st National Bank bldg., Chicago, Ill.
Robinson & Orr, 419 Wood, Pittsburg, Pa.
Schwarzenberg, E. A. (Relaying Rails, etc.), Garfield bldg, Cleveland, O.
Smith, Thos. & Son (Relaying Rails), 410 3d av, Brooklyn, N. Y.
Southern Iron & Equipment Co. (Locomotives, Rails, etc.), Atlanta, Ga.
Southern Locomotive & Car Mfg. Co., Valdosta, Ga.
Standard Railway Equipment Co., 77 Jackson boul, Chicago, Ill.
Steel Rail Supply Co. (Relaying & Scrap Rails, Spikes, etc.), 2 Rector, New York
Tillery, J. F Iron Co., Knoxville, Tenn.
Tobert, A. C. Co. (Locomotives, Cranes, Steam Shovels, etc.), 164 Dearborn, Chicago, Ill.
Union Iron Works Co., Selma, Ala.
Van Loan, I. S. Co., Park & 131st, New York
Watson, John B. (Locomotives, Cars, etc.), Drexel bldg., Phila., Pa.
Wilson, E. H. & Co. (Locomotives, Coaches, Rails, etc.), Arcade bldg, Philadelphia, Pa.
Wood, A. M. Co. (Relaying Rails), Arcade bldg, Phila., Pa.
Zelincker, Walter A. Supply Co. (Rails, Locomotives, Rolling Stocks, etc.), St. Louis, Mo.

## 9359a—Railroad Portable Lights

**MILBURN, A. ALEXANDER CO.** ("Milburn" Self-Contained Acetyline), 505 W Lombard, Baltimore, Md. (See adv. index, end of book)

## 9360—Railroad Stationery, Blanks, Manifests, Etc.

(See also Paper, Railroad, Manila & Writing)
Allen, Lane & Scott (Printers), 1211 Clover, Phila, Pa.
Anchor Mills Paper Co. (Copying Paper), Windsor Locks, Conn.
Armstrong, H. J. & Co., 302 Dearborn, Chicago, Ill.
Autographic Register Co. ("Shoups" Manifold Books), Hoboken, N. J.
Baker-Vawter Co. (Manifold Shipping Banks), Chicago, Ill.
Barlow Bros. (Manifold Shipping Blanks), Grand Rapids, Mich.
Boorum & Pease Co. (Manifold Books), 103 Duane, New York
Brown, Martin B. & Co. (Railroad Printing, etc., 49 Park pl, New York
Dexter, C. H. & Sons, Windsor Locks, Conn.
Diamond Mills Paper Co. (Manifests & Copying Paper), 44 Murray, New York
Fleet-McGinley Co. (Printers), Baltimore, Md.
Francis & Louttrel Co. (Manifold Books, etc.), 21 Cliff, New York
General Manifold & Printing Co. (Manifolds), Franklin, Pa.
Hall, J. C. & Co. (Manifold Books, etc.), Providence, R. I.
Hamilton Autographic Register Co. (Manifold Shipping Blanks), Hamilton, O.
Hampden Glazed Paper & Card Board Co. (Railroad Blanks), Holyoke, Mass.
Holyoke Card & Paper Co. (Railroad Blanks), Springfield, Mass.
Johnston, Wm. G. & Co. (Manifolds, Bills of Lading, Blanks, etc.), Penn. av & 9th, Pittsburg, Pa., & 396 B'way, New York
King, Albert B. & Co., 105 William, New York
Linden Paper Co. (Copying Paper), Holyoke, Mass.
Mann, Wm. Co. (Copying Paper, etc), 60 Maiden la, New York
Martell, A. E. Co. (Manifold Books), 99 Nassau, New York
Monarch Manifold Book Co., Laight & Varick, New York
N. Y. Blank Book Co., 7 Laight, New York
Pen-Carbon Manifold Co., 35 Warren, New York
Reyburn Mfg. Co., 22d & Allegheny av, Phila., Pa.
R. I. Card Board Co. (Railroad Blanks), Pawtucket, R. I.
Rogers Manifold & Carbon Paper Co. (Manifold Books & Carbon Paper), 346 B'way, New York
Union Mills Paper Mfg. Co. (Copying Paper), New Hope, Pa.
Ward, John & Son, 115 Cedar, New York
Whitmore, Mfg. Co. (Railroad Blanks), Holyoke, Mass.
Whittelsey, Frank H. Co. (Railroad Manifest Impression Paper, Train Order Blanks, etc.), Windsor Locks, Conn.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

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## 9361– Railroad Supplies

(See Specific Article Wanted; also Rail Mills, Iron & Steel; also Hardware, Wholesale; also Mill & Factory Supplies; also Iron & Steel Manufacturers of Various Kinds; also Machinery Manufacturers of Various Kinds)

(For All Other Railroad Specialties Etc., see Index of Contents)

## 9361a–Railroad Supplies, Tools, Etc.

**PATTISON, W. M. SUPPLY CO., 197-** 211 St. Clair av, Cleveland, O. (See adv. index, end of book)

## Railroad Ties

(See Ties, Poles & Posts)

## Railroad Velocipedes

(See Cars, Velocipede)

## 9362 Rails (Automobile)

Turner Brass Works (Robe, Foot & Coat), Sycamore, Ill.

## 9363– Rails (Barn Door)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Hunt, Helm, Ferris & Co. ("Harvard" Steel), Lawrence Bros., Sterling, Ill. Harvard, Ill.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Mfg. Co., Sterling, Ill.
New England Butt Co., Providence, R. I.
Prouty, T. C. Co. (Ltd.), Albion, Mich.
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Stowell Mfg. & Foundry Co. (Parlor Door & Hay Carrier), South Milwaukee, Wis.

## 9364– Rails (Brass)

**HUNGERFORD, U. T. BRASS & COP-** per Co. (Of All Descriptions), 497 Pearl, New York

## 9365– Rails (Door)

Bridgeport Brass Co., Bridgeport, Conn.
Kupferle, Jno. C. Foundry Co. (Barn & Door, Sliding Door, etc.), St. Louis, Mo.
Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
Plume & Atwood Mfg. Co. (Brass), Waterbury, Conn.
Reading Hardware Co., Reading, Pa.
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Rome Brass & Copper Co., Rome, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Stowell Mfg. & Foundry Co. (Steel), South Milwaukee, Wis.
Waterbury Brass Goods Corp'n, Waterbury, Conn.
Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av, Phila, Pa.
Wilcox-Richards Mfg. Co., Aurora, Ill.

## 9366–Rails (Girder & High Tee)

(See also Rail Mills, Iron & Steel)

Cleveland Frog & Crossing Co., Cleveland, O.
Lorain Steel Co., Johnstown, Pa.
Penna Steel Co., 1421 Chestnut, Phila., Pa.

## 9367– Rails (Guard)

Cambria Steel Co. ("Morrison"), Johnstown, Pa.
Cleveland Frog & Crossing Co., Cleveland, O.

## 9368–Rails (Hand & Foot)

Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
City Forge & Iron Works (Andrew Plocher, Prop.) (Brass), Dayton, O
Detroit Shipbuilding Co. (Brass Dep't), Detroit, Mich
**ESTEY WIRE WORKS CO., 59 Ful-** ton, New York. (See adv. index, end of book)
Imperial Brass Mfg. Co. (Automobile Foot & Robe Rails), 444 S Jefferson, Chicago, Ill.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake a Dearborn, Chicago, Ill. (See adv. index, end of book)
Van Doorn Co., Quincy, Ill.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

## 9368a– Rails (Light)

(See Rail Mills, Iron & Steel; also Rails, Steel)

## 9369–Rails (Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York

## 9369a–Rails (Relaying)

(See Railroad Equipments, Second-Hand)

## 9370– Rails (Sliding Door)

**Automatic Door Rail Co., Hillsdale, Mich.**
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
**MYERS, F. E. & BRO., Ashland, O. (See adv. index & branch offices, end of book)**
Penn Hardware Co., Reading, Pa.

## 9371– Rails (Steel)

(For Mills that Manufacture Steel Rails, see Rail Mills, Iron & Steel)

American Steel Co. (8 to 45 lbs.), 1328 Park bldg, Pittsburg, Pa.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
(Jobbers), Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**WALSH SONS & CO. (Dealers),** Harrison, N. J. (See adv. index, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 9372–Rails (Steel Renewed)

(See Rail Mills, Iron & Steel, with the Word Renewed following their Name)

## Rails (Tram)

(See Rail Mills, Iron & Steel)

## Rails & Hangers (Suspended)

(See Trolleys & Trolley Tracks, Overhead)

## 9373–Railway Composite Apparatus

Sandwich Electric Co. ("Sandwich," for Telegraph & Telephone Circuits), Sandwich, Ill.

## 9373a– Railway Poles

(See Poles, Iron & Steel; also Ties, Poles & Posts)

## 9374–Railway Supplies (Electric)

(See also Trolley Line Materials; also Electrical Supplies)

**Allison, Giles S. (Cars, Motors & Equipments), 42 B'way, New York**
**American General Engineering Co., 253 B'way, New York**
**Anderson, Albert & J. M. Mfg. Co., 287 A. S. Boston, Mass.**
Barbour-Stockwell Co., Cambridge, Mass.
Bissell, F. Co., Toledo, Ohio
Brookes-Follis Elec. Corp., 44 2nd, San Francisco, Cal.
Brown, Harold P. ("Edison-Brown" Plastic Rail Bond), 120 Liberty, New York
Bunnell, J. H. & Co., Park pl. & Church, New
Burnet Co., 69 South, New York York
Chester Railway Supply Co., Chester, Pa.
**Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.**
**Columbus Mill & Mine Supply Co., Columbus, O.**
**Commercial Electrical Supply Co., Pine & 15th, St. Louis, Mo.**
**Creaghead Engineering Co., Cincinnati, O.**
**Dallett & Co. (Cars, Motors & Equipments), Harrison bldg., Phila., Pa.**
Dayton Mfg. Co., Dayton, O.
Eccles & Smith Co., Portland, Ore., & San Francisco, Cal.
Electric Appliance Co., 701 W Jackson boul, Chicago, Ill.
Electric Traction Supply Co., St. Louis, Mo.
Electric Railway & Mfrs. Supply Co., San Francisco, Cal.
Electric Service Supplies Co., 1024 Filbert, Phila, Pa.
Electrical Engineering Co., Minneapolis, Minn.
Equipment Co., Kansas City, Mo.
Fitts, F. E. Mfg. & Supply Co., 88 Purchase, Boston, Mass.
Fox Bros. & Co., 126 Lafayette, New York
Garton, W. R. Co., 617 W Jackson boul, Chicago, Ill.
**GENERAL ELECTRIC CO., Sche-** nectady, N. Y. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co., St. Louis, Mo.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Jones, Jas. Co., Los Angeles, Cal.
Long, Ervin G. Co., 50 Church, New York
Morris Iron Co., 90 Church, New York. Works: Frederick, Md.
Nagel, W. G. Electric Co., Toledo, O.
**NUTTALL, R. D. CO. (Trolley Bases,** Forks, Wheels, Gears, Pinions, etc.), Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
Ohio Brass Co., Mansfield, O.
Pacific Coast Mfg. Co., Los Angeles, Cal.
Pettingell, Andrew Co., Boston, Mass.
Post-Glover Elec. Co., 314 W 4th, Cincinnati, O.
Ridlon, Frank Co. (Of Every Description), Boston, Mass.
Roberts, H. C. Electric Supply Co., 816 Arch, Philadelphia, Pa.
Sherburne & Co., 53 Oliver, Boston, Mass.
Somers, Fitler & Todd Co., Pittsburg, Pa.
Southern Electric Co., Baltimore, Md.
Stuart-Howland Co., Boston, Mass.
Traction Material Co. (Cars, Trucks, Motors, Gears, Axles, Springs, Wheels, etc.), 50 Church, New York
Union Electric Co., Terminal-Way, Pittsburg, Pa.
Van Dorn & Dutton Co., 2714 E 79th, S E, Cleveland, O.
Watson, John B., Drexel bldg, Phila., Pa.
Wendell & MacDuffie, 50 Church, New York
Wesco Supply Co., St. Louis, Mo.
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Wood, Guilford S. (Largest Dealer in Diaphragms (Car) in U. S.), Great Northern bldg, Chicago, Ill.

## 9375– Railways (Gravity)

Conveying Machinery Co., 120 Liberty, New York

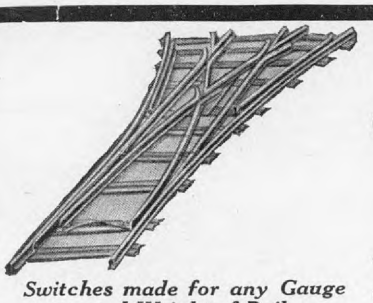
## Railways (Incline)

(See Stairways, Moving)

## 9376–Railways (Industrial & Portable)

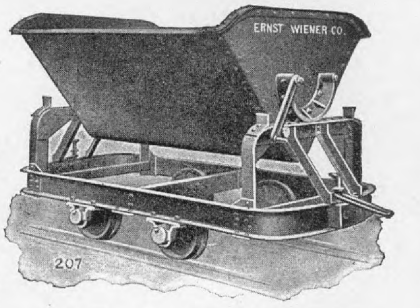
**ACME EQUIPMENT & ENGINEER-** ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Atlantic Gulf & Pacific Co. ("Nehr," Narrow Gauge Switch), 13 Park row, New York
**ATLAS CAR & MFG. CO., 1289 Mar-** quette rd, N E, Cleveland, O. (See adv. index, end of book)
Buda Co., Railway Exch. bldg, Chicago, Ill.
Cagney Bros., 74 B'way, New York.
Chase Foundry & Mfg. Co., Columbus, O.
Conveying Machinery Co., 120 Liberty, New York
Davies, Frank, Hennen bldg, New Orleans, La.
**EXETER MACHINE WORKS, Pitts-** ton, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fox Bros. & Co., 126 Lafayette, New York
**GENERAL ELECTRIC CO., Schenec-** tady, N. Y. (See adv. index & branch offices, end of book)

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*Switches made for any Gauge and Weight of Rail*

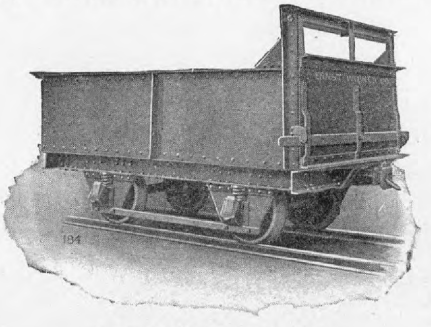
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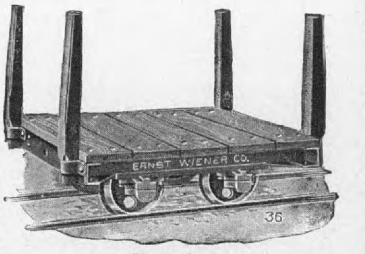
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**For Railroads, Contractors and Machine Shops**

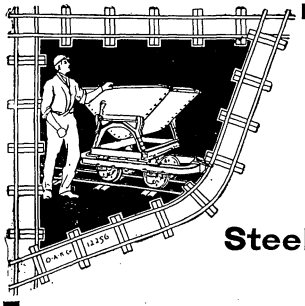
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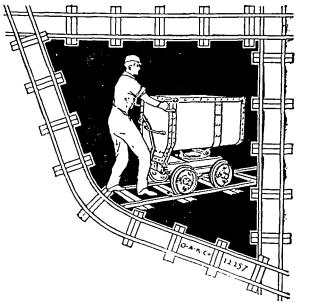

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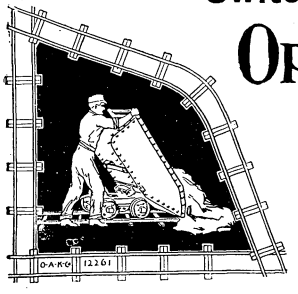
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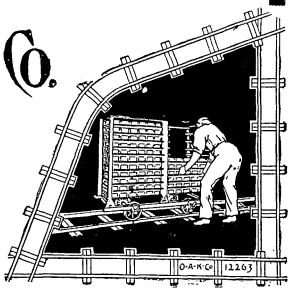


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**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
Howe Scale Co. of Illinois, 1315 Wabash av., Chicago, Ill.
Hunt, C. W. Co. (Automatic, Cable, etc.), West New Brighton, L. I., N. Y. City
Indianapolis Switch & Frog Co., Springfield, O.
Industrial Car Co., West Park, O.
**LINK BELT COMPANY, (Industrial),** Hunting Park av. & Reading Ry, Phila, Pa. (See adv. index & branch offices, end of book)
**INSLEY MFG. CO., Indianapolis,** Ind. (See adv. index & branch offices, end of book)
Magor Car Co., 50 Church, New York
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col
**NEW JERSEY FOUNDRY & MACHINE** Co., 90 West, New York
Ohio Ceramic Engineering Co., Cleveland, O

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Peteler Car Co., Minneapolis, Minn.
**RUSSEL WHEEL & FOUNDRY CO., De-**troit, Mich. (See adv. index, end of book)
Sherburne & Co. (Equipment for Sand), Boston, Mass.
Treadwell, M. H. Co., 90 West, New York
**Turl's, John Sons (Inc.), 26 Cortlandt, New** York. Works, Newburgh, N. Y
Union Iron Works, Hoboken, N. J.
Wharton, Wm. Jr. & Co., 25th & Washington, Phila., Pa.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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## 9376a—Railways (Logging)
(See Railways, Industrial & Portable)

## Railways (Marine)
(See Dry Docks & Marine Railways)

## Railways (Miniature)
(See Locomotives & Railways, Miniature)

## Railways (Scenic)
(See Locomotives & Railways, Miniature)

## 9377— Rakes (Alfalfa)
**INTERNATIONAL HARVESTER CO.** of America ("Deeding," "McCormick," "International" Sweep), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9378—Rakes (Asphalt or Tar)
**American Fork & Hoe Co.** (Steel), Cleveland
Union Fork & Hoe Co., Columbus, O. Ohio

## 9379— Rakes (Drag)
**Foster & Williams Mfg. Co., Racine, Wis.**

## 9380—Rakes (Garden or Lawn, Etc.)
**Alexander & Perkins, Sunapee, N. H.**
**American Fork & Hoe Co., Cleveland, O.**
**Bartlett, L. D. & Son Co., South Tamworth, N. H.**
Canfield Mfg. & Novelty Co., Canfield, O.
Cronk & Carrier Mfg. Co. ("Champion", "Ideal", "Victor" Brace Wrought Steel & Malleable Iron), Elmira, N. Y.
**Derby & Ball, Bellows Falls, Vt.**
**Gibbs Mfg. Co., Canton, O.**
**Iowa Farming Tool Co., Fort Madison, Iowa**
Kohler, F. E. & Co. (Malleable or Steel), Canton, O.
**Lacey, Elmer B., Union, N. Y.**
**Ney Mfg. Co. (Automatic Self-Cleaning Lawn), Canton, O.**
**Ney, V. L. Co. ("Champion" Lawn Rakes), Canton, O.**
Ohio Farmers' Hay Tool Co., Canton, O.
**Piqua Handle & Mfg. Co. (Braced Malleable Iron, Garden & "Ole Olsen" Wood Lawn),**
**Sleeper, B. R., Sunapee, N. H. Piqua, O.**
Standard Earth Auger Co. ("Standard"), 1128 Newport av, Chicago, Ill.
**Steadman, M. W., Tyringham, Mass.**
Swineford, G. A. Co. ("King", "Warren", **"Star" Wire Automatic, etc.), Canton, O.**
Union Fork & Hoe Co. (Bow & Flat Head Steel), Columbus, O.
Union Furnace Mfg. Co. (Malleable Iron), Union Furnace, Pa.
**Wellman, H. E., Westminster West, Vt.**
**Wheeling Hinge Co., Wheeling, W. Va.**

## 9381— Rakes (Gas Retort)
**American Fork & Hoe Co., Cleveland, O.**

## 9382— Rakes (Hay, Hand)
**Iowa Farming Tool Co., Fort Madison, Ia.**
**Rogers Rake C., New Hartford, Conn.**
Rugg Mfg. Co. (Also Drag), Greenfield, Mass.
Swineford, G. A. Co., Canton, O.
**Thomas Mfg. Co. Springfield, O.**

## 9382—Rakes (Hay Revolving)
**Hughes & Smythe, Galena, O.**
Ohio Rake Co. ("Bob White," "Bulls Head"), Dayton, O.
**Sterling Mfg. Co., Sterling, Ill.**
**Wayne Works, Richmond, Ind.**

## 9384—Rakes (Hay, Side Delivery)
Chambers, Bering & Quinlan Co., Decatur, Ill.
**Dain Mfg. Co., Ottumwa, Iowa**
**Deere & Mansur Co., Moline, Ill.**
**Hocking Valley Mfg. Co., Lancaster, O.**
**INTERNATIONAL HARVESTER CO.** of America, 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Johnston Harvester Co., Batavia, N. Y.**
**La Crosse Hay Tool Co., Ottumwa, Iowa**
Moline Plow Co., Moline, Ill.
Ohio Rake Co. ("Dayton," Wood Frame, "Ohio," Steel Frame), Dayton, O.
**Sandwich Mfg. Co., Sandwich, Ill.**
**Sterling Mfg. Co., Sterling, Ill.**
Thomas Mfg. Co. ("Thomas" Combined Rake & Tedder, & "Thomas" Cylinder), Springfield, O.
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 9385—Rakes (Hay, Sulky)
**Acme Harvester Co., Peoria, Ill.**
**Adriance, Platt & Co. (Steel Wheels), Poughkeepsie, N. Y.**
Albright, J. Hudson & Son, Mifflingburg, Pa.
**Allen, Chas. G. Co., Barre, Mass.**
Ames Plow Co., Quincy Hall, Boston, Mass.
**Anchor Bolt & Nut Co., Poughkeepsie, N. Y.**
**Aultman, Miller, Buckeye Co., Akron, O.**
**Bateman Mfg. Co. ("New York Champion"),** Grenloch, N. J.
**Belcher & Taylor Agricultural Tool Co., Chi-**copee Falls, Mass.
**Comstock, Geo. S. ("Hauck," "Novelty"),** Mechanicsburg, Pa.
**Deuscher, H. P. Co., Hamilton, O.**
**Emerson-Brantingham Co., Rockford, Ill.**
**Empire Drill Co., Shortsville, N. Y.**
**Farquhar, A. B. Co., York, Pa.**
**Fleming & Sons' Mfg. Co., Huntsville, Mo.**
**Fond du Lac Implement Co., Fond du Lac, Wis**
**Gale Mfg. Co., Albion, Mich.**
**Grand Detour Plow Co., Dixon, Ill.**
**Hocking Valley Mfg. Co., Lancaster, O.**
**Howell, R. R. & Co., Minneapolis, Minn.**
**INTERNATIONAL HARVESTER CO.** of America (Self & Hand Dump), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Johnston Harvester Co., Batavia, Ill.
**Messinger Mfg. Co. ("Steel King" Self-Dump-**ing), Tatamy, Pa.
**Moline Plow Co., Moline, Ill.**
**Northwestern Steel & Iron Works, Eau Claire,** Wis.
Ohio Rake Co. ("Quail," "Steel King," "Ohio Champion," "Gazelle"), Dayton, O.
**Patten & Stafford Co. ("New York Cham-**pion"), Canastota, N. Y.
**Plattner Implement Co., Denver, Colo.**
Richardson Mfg. Co., Worcester, Mass.
Rockford Mfg. Co. ("Ellwood"), Rockford, Ill.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Rude Bros. Mfg. Co., Liberty, Ind.
Smith & Sons Mfg. Co. (2 & 3-Wheel Sweep), Kansas City, Mo.
**Sterling Mfg. Co., Sterling, Ill.**
Thomas Mfg. Co. ("Thomas," "Banner," "Reliable," "Western," "Thomas Alfafa"), Springfield, O.
**Van Brunt Mfg. Co., Horicon, Wis.**
**Wiard Plow Co., Batavia, N. Y.**
**Williams Bros. (Self & Hand Dumping), Ith-**aca, N. Y.
**Wood, W. A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.**

## 9386— Rakes (Stacker, for Threshers)
**Frick Co., Waynesboro, Pa.**
**Port Huron Engine & Thresher Co., Port Hu-**ron, Mich.

## 9387— Rakes (Stalk)
**Peoria Drill & Seeder Co. ("Glendale"), Peo-**ria, Ill.

## 9388— Rakes (Sweep)
Acme Harvester Co. (Hay), Peoria, Ill.
**Anderson Company (Of Every Description), St. Paul, Minn.**
**Barley, Thos. K., Sedalia, Mo.**
**Benicia Agricultural Works (Buck Rake), Ben-**icia, Cal.
Clippinger, A. B. & Son Co., Kansas City, Mo.
**Dain Mfg. Co. (Automatic Stackers), Ottum-**wa, Ia.
**Danielsen Implement Co., Independence, Mo.**
**Famous Mfg. Co. (Peerless Sweep, Champion Buck), East Chicago, Ill.**
**Fleming & Sons Mfg. Co., Huntsville, Mo.**
**Foster & Williams Mfg. Co. (Balance Pivot Wheel Sweep), Racine, Wis.**
**Grand Detour Plow Co., Dixon, Ill.**
**Howell, R. R. & Co. (Stacker Rake), Minne-**apolis, Minn.
**INTERNATIONAL HARVESTER CO.** of America, 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Jackson, Byron Machine Works (Sweep), San Francisco, Cal.**
**Jenkins Hay Rake & Stacker Co., Chillicothe, Mo.**
**Kansas City Hay Press Co. (Stacker & Rake), Kansas City, Mo.**
**Louden Machinery Co. (Rickers), Fairfield, Ia.**
**Plattner Implement Co., Denver, Colo.**
**Porter, J. E. Co. (Rickers), Ottawa, Ill.**

## 9389— Rammers (Foundry)
(See also Pneumatic Sand Rammers)
**Barnett, Oscar F'dry Co. (Bench & Floor), Newark, N. J.**
Brown & Sharpe Mfg. Co. (Rubber Tipped), Providence, R. I.
**CHICAGO PNEUMATIC TOOL CO.** (Air), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Hellenberg & Son (Moulders' Bench), Cold-**water, Mich.
**INGERSOLL-RAND CO. (Air), 11** B'way, New York. (See adv. index & branch offices, end of book)
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Piqua Handle & Mfg. Co. (Also Moulders' Bench Rammers), Piqua, O.
Pollard, Jos. G. (Cast Iron Ash Handle), 141 Raymond, Brooklyn, N. Y.
**Sandusky Tool Co., Sandusky, O.**
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
**Woodstock Hardwood & Spool Mfg. Co. (Moulders' Wooden Rammers), Charleston, S. C.**

## 9390— Rammers (Pavers')
**Stortz, John & Son** (Stone Paving, etc.), 210 Vine, Phila., Pa.

## 9391— Rammers (Sand)
(See Rammers, Foundry)

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## 9391a— Rams (Hydraulic)

**RIFE ENGINE CO., 2437 Trinity** bldg, New York. (See adv. index & branch offices, end of book)

## 9392— Range Fenders

Eastwood Wire Mfg. Co., Belleville, N. J.

## Ranges (Acetylene)

(See Stoves, Acetylene)

## 9393— Ranges (Electric)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## Ranges (French Cooking)

(See Cooking Apparatus)

## Ranges (Galley)

(See Ranges, Yacht)

## Ranges (Gas)

(See Stoves, Heaters & Rangers, Gas)

## 9394— Ranges (Kettle)

Weaver, Frank L. ("Perfection"), **New Oxford, Pa.**

## 9395—Ranges (Portable & Stationary)

(See Stove Manufacturers; also Ranges, Steel; also Cooking Apparatus)

## 9396— Ranges (Steel)

(See also Cooking Apparatus)

**Allen Mfg. Co. ("Princess"), Nashville, Tenn.**
American Stove Co. ("Quick Meal," Coal & Wood "Quick Comfort" & "National"), **414 N 6th, St. Louis, Mo.**
American Range & Foundry Co., Cleveland, O.
Anchor Stove & Range Co., **New Albany, Ind.**
Bonnet-Nance Stove Co., **Chicago Heights, Ill.**
Born Steel Range Co., Cleveland, Ohio
Bramhall, Deane Co., 264 Water, New York
Bramhall Range Co., 81 Market, Chicago, Ill.
Bridgeford & Co. (Wrought Steel), **Louisville, Ky.**
Buckstaff Bros. Mfg. Co., Lincoln, Neb.
Burton Range Co., Cincinnati, O.
**Carmichael Range Co., 50 W Kinzie, Chicago, Ill.**
Chicago Stove & Range Co., 2920 S Park av, Chicago, Ill.
Clad, V. & Sons, 239 S 12th, Phila., Pa.
Cohen Stove & Range Co., Florence, Ala.
Comstock-Castle Stove Co., Quincy, Ill.
Conway Steel Range Co., Bellevue, O.
Co-Operative Foundry Co., Rochester, N. Y.
Crane, W. M. Co. ("Vulcan" "Perfect"), **16 W 32d, New York**
Cribben & Sexton Co., 800 N Sacramento blvd, Chicago, Ill.
**DUPARQUET, HUOT & MONEUSE CO., 43 Wooster, New York.** (See adv. index & branch offices, end of book)
Eclipse Stove Co., Mansfield, O.
Excelsior Stove & Mfg. Co. (Wrought Steel), Quincy, Ill.
Faultless Stove Works (Malleable Iron), St. Charles, Ill.
Fischer Leaf Co., Louisville, Ky.
Fischer, Wm. G., Stove & Range Co., 223 W. 3rd, Cincinnati, O.
Folsom, C. G. Mfg. Co. ("Folsom"), **South Bend, Ind.**
Franke, H. Steel Range Co., Cleveland, O.
Galusha Stove Co. ("Norman"), **Rochester, N. Y.**
Germar Stove Co., Erie, Pa.
Globe Stove & Range Co., Kokoma, Ind.
Gohman Bros. & Kahler Co., **New Albany, Ind.**
Hess, Snyder Co. ("Boomer"), Massillon, O.
Home Stove Co., Indianapolis, Ind.
Hutchinson Bros. Co., Baltimore, Md.
Ideal Stove & Range Co., Belleville, Ill.
Ils, John G. & Co., 827 Mission, San Francisco, Cal.
Imperial Steel Range Co., Cleveland, O.
Independent Stove Co., Owosso, Mich.
Iowa Stove & Range Co., Waterloo, Iowa
King Stove & Range Co., Sheffield, Ala.
Lenox Furance Co., Marshalltown, Ia.
Ley, Jno. P., 244 Water, New York
Lotze, A. Sons & Co., Cincinnati, O.
M. & D. Range Co., 83 Lake, Chicago, Ill.
Madison Stove Co., Madison, Ind.
Mahoney, Daniel, & Sons, 17 Main, Buffalo, N. Y.
Majestic Mfg. Co., St. Louis, Mo.
Malleable Steel Range Mfg. Co., South Bend, Ind.
Mattoon Stove & Range Works, Mattoon, Ill.
Michigan Stove Co. ("Garland"), Detroit, Mich.
Miller, W. Range & Furnace Co. (Portable), Cincinnati, O.
Monitor Stove & Range Co., Cincinnati, O.
National Stove Co. (Gas for Fuel), Lorain, O.
Orbon Stove & Range Co., Belleville, Ill.
Orinda Stove & Mfg. Co., Quincy, Ill.
Peninsular Stove Co., Detroit, Mich.
Portsmouth Stove & Range Co., Portsmouth, Ohio
Quick Action Range Co., Marshalltown, Ia.
Reading Stove Works ("Cheerful Sunshine," "Domestic Sunshine"), Reading, Pa.
Rock Island Stove Co., Rock Island, Ill.
Ross Supply Co. ("Royal"), Greenville, O.
Rubel & Co., 116 E. Lake, Chicago, Ill.
Schill Bros. Co., Crestline, O.
Sexton, S. B., Stove & Mfg. Co. (Also Cast Iron), 7 S Gay, Baltimore, Md.
Sheffield Steel Range & Stove Co., Sheffield, Ala.
Sheppard, Isaac A. & Co., 1801 N 4th, Philadelphia, Pa.
Southern Queen Range Mfg. Co. ("Southern Queen" Cold Rolled Steel & Ingot Iron), Chattanooga, Tenn.
Standard Foundry & Mfg. Co., Cleveland, O.
Stearnes Steel Range Co., 188 Lake, Chicago, Ill
Toledo Stove & Range Co. ("Gem"), Toledo, O.
Taplin-Rice-Clerkin Co. ("Climax"), Akron, O.
Tinnerman Steel Range Co. ("Ohio" Wrought Steel), Cleveland, O.
Van, John, Range Co. (For Families, Hotels & Institutions), Cincinnati, O.
Walker & Pratt Mfg. Co., 31 Union, Boston, Mass.
Warren Stove Co., Warren, O.
Wolterstorff-Haskell Range & Furnace Co. (Wrought Steel), St. Paul, Minn.
Wrought Iron Range Co., St. Louis, Mo.

## 9397— Ranges (Yacht)

**DUPARQUET, HUOT & MONEUSE Co.** (Steel), 43 Wooster, New York. (See adv. index & branch offices, end of book)

## 9398—Rapping Plates & Lifting Screws

Timmis & Clissold, Boundbrook, N. J.

## 9399— Rasps (Horse)

(See also File & Rasp Manufacturers)

Heller Bros. Co., Newark, N. J.
**NICHOLSON FILE CO. ("Superior"),** Providence, R. I. (See adv. index & branch offices, end of book)
Stokes Bros. Mfg. Co. ("St. Crispen"), Freehold, N. J.
Westfall File Co. ("Westfall"), Milwaukee, Wis.

## 9400—Ratchet Attachments for Stocks & Dies

**ARMSTRONG MFG. CO., 278 Knowlton,** Bridgeport, Conn. (See adv. index & branch offices, end of book)

## Rachet Stocks

(See Stocks & Dies)

## Ratchets

(See Drills, Ratchet)

## 9401—Ratchets (Deck Sash)

Adams & Westlake Co., 319 W Ontario, Chicago, Ill.

## 9402— Ratchets (Fence)

Cyclone Fence Co., Waukegan, Ill.
Cyclone Woven Wire Fence Co. ("Cyclone"), Cleveland, O.
Denning Wire & Fence Co. ("U.-S."), Cedar Rapids, Ia.
Gem Wire Fence Co. (Malleable Iron), Pontiac, Mich.
Hardware & Woodenware Mfg. Co. ("Brighton"), 693 Broadway, New York
Indiana Anchor Fence Co. ("Automatic"), South Bend, Ind.
Kokomo Fence Machine Co., Kokomo, Ind.
Morris, John B. Fdry Co. ("Boso"), Ann, Mo.
New England Anchor Fence Co., Worcester, Mass.
Schriver, O. P. & Co. ("I X. L." Wire Fence), 208 Elm, Cincinnati, O.
Universal Ratchet Co. ("Universal" Wire Fence Ratchet & Tightener), Detroit, Mich.
Wrightsville Hardware Co. ("Brighton"), Wrightsville, Pa.

## Ratchets (Packer)

(See Drills, Ratchet)

## 9403— Ratline (Tarred)

**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York. (See adv. index, end of book)
**NEW YORK CORDAGE CO. ("Nycord"),** 85 Wall, New York. (See adv. index, end of book)

## 9404—Rattan Seat Covering (Canvas Lined)

Hale & Kilburn Mfg. Co., 48 N 6th, Phila., Pa.

## 9405—Rattan & Reed Works

American Rattan & Reed Mfg. Co. (Car Seating, Webbing, etc.), Kingsland & Normanaves, Brooklyn, N. Y.
Hartshorn, C. H., Gardner, Mass.
Heywood Bros. & Wakefield Co., Gardner Mass.
Jenkins-Phipps Co., Wakefield, Mass.

## 9406—Rattans, Reed & Chair Cane

American Rattan & Reed Mfg. Co. (also Rattan Webbing, etc.), Norman & Kingslandav, Brooklyn, N. Y.
Gerdau, Otto Co., 83 Murray, New York

## 9407— Rattlers (Brick)

Portsmouth Machine & Casting Co., Portsmouth, O.

## 9408— Rattlers (Flue)

Mann-McCann Co. ("Westmark"), Fisher bldg, Chicago, Ill.

## 9409— Rattlers (Foundry)

**WHITING FOUNDRY EQUIPMENT Co.,** Harvey, Ill. (See adv. index & branch offices, end of book)

## 9410— Rattlers (Nail)

Miller's, H. J. Sons, Bridgewater, Mass.
Perkins, Henry Co., Bridgewater, Mass.

## 9411— Rawbone (Boiled)

Cooper's, Peter Glue Factory, Maspeth & Gardner avs, Brooklyn, N. Y.

## 9412 Rawbone (Granulated)

(See also Bone Black)

Armour Fertilizer Works, Union Stock Yards, Chicago, Ill.
Hollingshurst & Co., 68 Beaver, New York
Listers Agricultural Chemical Works. Rector, New York
Pittsburgh Provision & Packing Co. (Case Hardening Bone), Pittsburg, Pa.
Rogers & Hubbard Co., Middletown, Conn.
White, Thos. H. & Co. (Ground, Brokers), Baltimore, Md.
York Chemical Works, York, Pa.

## 9413— Razor-Guard

Weiss, L. T. ("Shavezy"), 291 Taaffe pl, Brooklyn, N. Y.

## 9414— Razor Mfrs.

Andersen, Alfred & Co., Minneapolis, Minn.
Barnesley Bros. Cutlery Co., Monett, Mo.
Brown Razor Co., Little Valley, N. Y.
Buck Bros., Milbury, Conn.
Buck, Chas. Edge Tool Co., Milbury, Conn.
Canton Cutlery Co., Canton, O.
Case, John D. Sons Co. (Folding), Kane, Pa.
Case, W. R. & Son, Bradford, Pa.
Challenge Cutlery Corp'n, Bridgeport, Conn.
Christy Co., Fremont, O.
Clark Blade & Razor Co., Newark, N. J.

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Clauberg, F. A. & Co. 27 Park pl, New York
Clauss Shear Co., Fremont, O.
Compton, W. H. Shear Co., Newark, N. J.
**Cronk & Carrier Mfg. Co., Elmira, N. Y.**
Empire Knife Co., West Winsted, Conn.
Geneva Cutlery Co., Geneva, N. Y.
Graef & Schmidt ("Jas. A. Henckels Twin Works"), 107 Chambers, New York
Hessenbrush, H., Philadelphia, Pa.
International Cutlery Co., Fremont, O.
Jackson Shear & Razor Co., Fremont, O.
Kastor, Adolph & Bros. ("Wade & Butchers", Imported), 109 Duane, New York
**Korn, Geo. W. Razor Mfg. Co., Little Valley, N. Y.**
National Cutlery Co., Phila, Pa.
Novelty Cutlery Co., Canton, O.
Odel Razor Co., Utica, N. Y.
Radiumite Co., 1545 W. Lake, Chicago, Ill.
Robeson Cutlery Co., Rochester, N. Y.
Schatt & Morgan Cutlery Co., Titusville, Pa.
Schrade Cutlery Co., Walden, N. Y.
**SMITH & HEMENWAY CO. ("Ran-Tan-Ka-Rus", "Red Devil" Sharp Shaver), 150 Chambers, New York.** (See adv. index, end of book)
Southington Cutlery Co., Southington, Conn.
Sperry & Alexander Co. ("Century"), 20 Warren, New York
Standard Razor & Strop Co., Little Valley, N. Y.
Torrey, J. R. Co., Worcester, Mass.
Union Cutlery Co., Tidioute, Pa.
Vanator Cutlery Co., Grand Lodge, Mich.
Wallace & Sons Mfg. Co., Wallingford, Conn.
Waterville Cutlery Co., Waterville, Conn.
Wiss, J. & Sons Co., Newark, N. J.
Witte, Alexis, Cutlery Co., 81 Warren, New York

## 9415– Razor Mfrs. (Safety)

American Safety Razor Co. ("Ever Ready"), 596 6th av, New York
Arnold Co. ("Arnold"), Reading, Pa.
Auto Strop Safety Razor Co., **345 Fifth av.**, New York
Burham Safety Razor Co. ("Burham"), 64 Murray, New York
Christy, R. J. Co., Fremont, O.
Clark Blade & Razor Co. ("King", "Clark"), Newark, N. J.
Clauss Shear Co. ("Clauss"), Fremont, O.
Cronk & Carrier Mfg. Co. ("Repeater"), Elmira, N. Y.
Curly, J. & Bro., 318 Broadway, New York
**Durham Duplex Razor Co., 111 Fifth av, New York**
Fremont-Crescent Metal & Mfg. Co., Fremont, **Ohio**
**Fuller Mfg. Co.**, Elyria, O.
Gem Cutlery Co., 34 Reade, New York
Geneva Cutlery Co., Geneva, N. Y.
Gillette Sales Co. ("Gillette"), Boston, Mass.
Herbrand Co., Fremont, Ohio
Kampfe Bros. ("Star"), 8 Reade, New York
Kirtland Bros. & Co., 90 Chambers, New York
Korn, Geo. W., Razor Mfg. Co. ("Real"), **Little Valley, N. Y.**
Leslie Mfg. Co., 12 Medford, Boston, Mass.
**Newark Safety Razor Co., Newark, N. J.**
Pall Mall Electric Co., 870 B'way, New York
Reichardt & Co., F. A., 63 Barclay, New York
Sharp-Shaver Razor Co. ("Sharp-Shaver"), 483 Greenwich, New York
Silberstein, A. L., 476 Broadway, New York
Simmons Hardware Co. ("Keen Kutter"), St. Louis, Mo.
Ward Safety Razor Co. ("Ward"), 356 Dearborn, Chicago, Ill.
Weiss, L. S. ("Shavezy"), **286 Taaffe pl**, Brooklyn, N. Y.
Young Safety Razor Co. ("Young"), 1020 Erie av, Phila., Pa.

## 9416– Razzle Dazzles

Herschell-Spillman Co., No. Tonawanda, N. Y.

## 9417– Re-Agents

Baker, J. T. Chemical Co. ("Baker's"), Phillipsburg, N. J.
Baker & Adamson Chemical Co., Easton, Pa.
General Chemical Co., 25 Broad, New York
General Chemical Co. of Penna., Pittsburg, Pa.
Heil, Henry Chemical Co., St. Louis, Mo.
Merck & Co. ("Merck's" Blue Label), University pl & 8th, New York

## 9418– Reamers

(Under this Heading see Sub-classifications; see also Taps, Various Kinds)
Buck Bros. (Sq., Octagon & Half Round), Millbury, Mass.
Buck, Chas., Millbury, Mass.
Butterfield & Co., Derby Line, Vt.
**Card, S. W. Mfg. Co., Mansfield, Mass.**
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**Chicago Screw Co. (Taper Pin), 1026 S Homan av, Chicago, Ill.**
Cincinnati Screw & Tap Co., Twightwee, O.
**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M., Tolland, Conn.
**DETROIT TWIST DRILL CO., Detroit, Mich.** (See adv. index, end of book)
Gisholt Machine Co. ("Gisholt," Inserted Blade, "Solid" Adjustable Arbors), Madison, Wis.
Kelly Reamer Co. (Heavy Body Cylinder), **Cleveland, O.**
King, J. M. Co. (Inc.), Waterford, N. Y.
Lincoln-Williams Twist Drill Co., Taunton, **Mass.**
Lord, L. L. Co., Meadville, Pa.
McCrosky Reamer Co. (Universal), Meadville, Pa.
**MORSE TWIST DRILL & MACHINE Co.**, New Bedford, Mass. (See adv. index, end of book)
National Machine Tool Co., Cincinnati, O.
National Twist Drill & Tool Co., Detroit, Mich.
New Process Twist Drill Co. (Hot Forged), **Taunton, Mass.**
Norton Mfg. Co., Chester, Conn.
Pawtucket Mfg. Co., Pawtucket, R. I.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Rogers, John M. Works, Gloucester City, N. J.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Standard Railway Equipment Co., Nat'l Bank of Commerce, St. **Louis, Mo.**
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**Tuck Mfg. Co.**, Brockton, Mass.
**WELLS BROS. CO. ("Little Giant")**, Greenfield, Mass. (See adv. index & branch offices, end of book)


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## Morse Twist Drill & Machine Company

NEW BEDFORD, MASS., U. S. A.


**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiedeke, Gustave & Co. (Rivet Hole & Flue), Dayton, O.
Wiley & Russell Mfg. Co., Greenfield, Mass.

### 9419— Reamers (Adjustable)

**American Axe & Tool Co., Glassport, Pa.**
Brown & Sharpe Mfg. Co., Providence, R. I.
Butterfield & Co., Derby Line, Vt.
**CLEVELAND TWIST DRILL CO., Lakeside** av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**Clough, R. M. (Shell & Hand), Tolland, Conn.**
**Grant Nail & Supply Co.** ("Turney"), Boston, Mass.
**Kelly, P. J., Elizabeth, N. J.**
**Lapointe Machine Tool Co., Hudson, Mass.**
**McCroskey Reamer Co. (Inc.), Meadville, Pa.**
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
One-Lock Reamer Co. ("One-Lock"), New Haven, Conn.
Pratt & Whitney Co., Hartford, Conn.
Rogers, John M. Works, Gloucester City, N. J.
Schellenbach-Hunt Tool Co. ("Universal" Machine), 14th & Plum, Cincinnati, O.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Wells Bros. Co., Greenfield, Mass.
Western Tool & Mfg. Co., Springfield, Ohio
Whitman & Barnes Mfg. Co., Akron, Ohio

### 9420—Reamers (Bibb & Bibb Seat)

**Lord, L. L. Co.** ("Universal," for Cocks, Bibbs, etc.), Meadville, Pa.

### 9421— Reamers (Bit Brace)

**Brubacker, W. L. & Bros.** (Taper), Millersburg, Pa.
Buck Bros., Millbury, Mass.
Butterfield & Co., Derby Line, Vt.
**CLEVELAND TWIST DRILL CO.,** side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO.,** Detroit, Mich. (See adv. index, end of book)
**Holroyd & Co., Waterford, N. Y.**
Kraeuter & Co., Newark, N. J.
Lord, L. L. Co., Meadville, Pa.
**Mayhew, H. H. Co., Shelburne Falls, Mass.**
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
National Twist Drill & Tool Co. ("National" Taper & Fluted), Detroit, Mich.
**Polk, A. J, & Son, Millersburg, Pa.**
Sayre, L. A. & Son, Newark, N. J.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
**Wiley & Russell Mfg. Co., Greenfield, Mass.**

### 9422— Reamers (Bridge)

Ashcroft Mfg. Co., 85 Liberty, New York
Brown & Sharpe Mfg. Co., Providence, R. I.
Buck Bros., Millbury, Mass.
Butterfield & Co., Derby Line, Vt.
Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
**CLEVELAND TWIST DRILL CO., Lakeside** av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M., Tolland, Conn.
Elmore Tool Mfg. Co., Hartford, Conn.
Gem Mfg. Co., Pittsburg, Pa.
King, J. M. & Co., Waterford, N. Y.
**Lincoln-Williams Twist Drill Co., Taunton, Mass.**
Mayhew, H. H. Co., Shelbourne Falls, Mass.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass.** (See adv. index, end of book)
**National Twist Drill & Tool Co. ("National"), Detroit, Mich.**
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Swan, Jas. Co., Seymour, Conn.
Tuck Mfg. Co., Brockton, Mass.
Western Tool & Mfg. Co., Springfield, O.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River," Taper), Greenfield, Mass.

### 9422a—Reamers (Bridge Builders' Sq. & T. S.)

**DETROIT TWIST DRILL CO.,** Detroit, Mich. (See adv. index, end of book)

### 9423— Reamers (Burring)

Ashcroft Mfg. Co., 85 Liberty, New York
Brown & Sharpe Mfg. Co., Providence, R. I.
Buck Bros., Millbury, Mass.
Butterfield & Co., Derby Line, Vt.
Cincinnati Electrical Tool Co., Cincinnati, O.
Clough, R. M., Tolland, Conn.
Elmore Tool Mfg. Co., Hartford, Conn.
Gem Mfg. Co., Pittsburg, Pa.
King, J. M. & Co., Waterford, N. Y.
Lord, L. L. Co. (Spiral Fluted), Meadville, Pa.
Mayhew, H. H. Co., Shelbourne Fall, Mass.
Morse Twist Drill & Machine Co., New Bedford, Mass.
Pratt & Whitney Co., Hartford, Conn.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)


TRADE MARK



TRADE MARK

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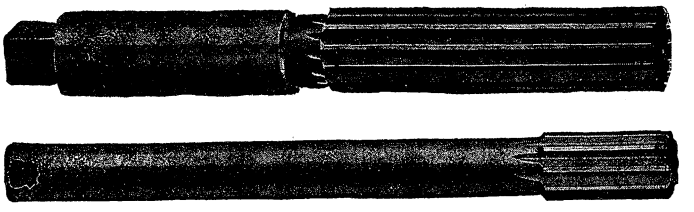
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Western Tool & Mfg. Co., Springfield, O.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
**Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.**

## 9424— Reamers (Center)

**American Die & Tool Co., Reading, Pa.**
Butterfield & Co., Derby Line, Vt.
**Card, S. W. Mfg. Co., Mansfield, Mass.**
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)**
National Twist Drill & Tool Co, Detroit, Mich.
Pratt & Whitney Co., Hartford, Conn.
Schellenbach-Hunt Tool Co. ("Universal" Adjustable Machine), 14th & Plum, Cincinnati, O.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
**Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.**

## 9425— Reamers (Chucking)

**Brubaker, W. L. & Bros. (Rose Fluted), Millersburg, Pa.**
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO. (Fluted** & Three Groove; also Rose Chucking, Detroit, Mich. (See adv. index, end of book)
**Lincoln-Williams Twist Drill Co., Taunton, Mass.**
**MORSE TWIST DRILL & MACHINE Co. (Fluted, Rose & Three Groove), New Bedford, Mass. (See adv. index, end of book)**
National Twist Drill & Tool Co. ("National" Rose Fluted), Detroit, Mich
New Process Twist Drill Co. (Four Groove), Taunton, Mass.
Polk, A. J. & Son (Fluted, etc.), Millersburg.
Pratt & Whitney Co., Hartford, Conn. Pa.
Rogers, John M. Works, Gloucester City, N. J.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO., Akron, O. (See adv. index & branch of fices, end of book**
**Wiley & Russell Mfg. Co. ("Green River" Spiral Fluted), Greenfield, Mass**

## 9426—Reamers (Conduit Pipe)

**Sprague Electric Co., 527 W 34th, New York**
**Steel City Electric Co. ("Thompson"), Pitts burg, Pa.**

## 9426a—Reamers (Drill Socket, Roughing & Finishing)

**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)

## 9427—Reamers (Expansion)

Chadwick & Trefethen, Portsmouth, N. H.
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, A. (See adv. index & branch offices, end of book)
**Clough, R. M. (Chucking), Tolland, Conn.**
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)**
Schellenbach-Hunt Tool Co., Cincinnati, O.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 9428— Reamers (Hand)

**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**Clough, R. M., Tolland, Conn.**
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
Krauter & Co., Newark, N. J.
McCroskey Reamer Co. (Inc.), Meadville, Pa.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)**
National Machine Tool Co., Cincinnati, O.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Shepard Lathe Co., Cincinnati, O.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
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## 9430—Reamers (High Speed Steel)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 9430a—Reamers (High Speed Steel, Twisted)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 9431— Reamers (Locomotive)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River" Taper), Greenfield, Mass.

## 9431a—Reamers (Morse Taper)

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)

## 9432—Reamers (Oil Feeding)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 9433—Reamers or Tap Borers (Lead Pipe)

(See also Borers, Tap)

**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Enterprise Mfg. Co., 3d & Dauphine, Phila., Pa.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.

## 9434— Reamers (Pin)

**WELLS BROS. CO. (Standard** Taper), Greenfield, Mass. (See adv. index & branch offices, end of book)

## Reamers (Pipe)

(See Taps & Reamers, Pipe)

## Reamers (Pneumatic)

(See Pneumatic Reaming & Tapping Drills)

## 9435— Reamers (Rivet Hole)

American Die & Tool Co., Reading, Pa.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Wiedeke, Gustave & Co., Dayton, O.

## 9436— Reamers (Shell)

Brubaker, W. L. & Bros., Millersburg, Pa.
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Clough, R. M., Tolland, Conn.
**DETROIT TWIST DRILL CO. (Also** Rose Shell), Detroit, Mich. (See adv. index, end of book)
McCroskey Reamer Co. (Inc.), Meadville, Pa.
**MORSE TWIST DRILL & MACHINE Co. (Adjustable & Rose), New Bedford,** Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National" Fluted), Detroit, Mich.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Rogers, John M. Works, Gloucester City, N. J.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River" Spiral Fluted), Greenfield, Mass.

## 9437— Reamers (Socket)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 9438— Reamers (Solid)

**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 9439— Reamers (Square)

Buck Bros., Millbury, Mass.
Jennings, C. E. & Co., 42 Murray, New York. Works: Chester, Conn.
Lowentraut, P. Mfg. Co., Newark, N. J.
Snell Mfg. Co., Fiskdale, Mass.
Tuck Mfg. Co. (Also Half Round), Brockton, Mass.
Vaughn & Bushnell Mfg. Co., 2130 Carroll, av, Chicago, Ill.

## 9440— Reamers (Taper)

American Die & Tool Co., Reading, Pa.
Anthony Screw Co. (Taper Pin), Worcester, Mass.
Brown & Sharpe Mfg. Co. ("Standard"), Providence, R. I.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Chicago Screw Co. (Taper Pin), 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co. (Pin), Twightwee, O.
**CLEVELAND TWIST DRILL CO., Lake**side av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Corbin Screw Corporation (Pin), New Britain, Conn.
**DETROIT TWIST DRILL CO. (Also** Taper Pin), Detroit, Mich. (See adv. index, end of book)
Holroyd & Co., Waterford, N. Y.
Lord, L. L. Co. (For Bit Brace Taper Reamer & Ratchet Combination, also Spiral Fluted), Meadville, Pa.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National" Taper Pin, etc.), Detroit, Mich.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Rogers, John M. Works (Solid & Adjustable), Gloucester City, N. J.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Stow Flexible Shaft Co. (Long Taper), N 26th & Buttonwood, Phila., Pa.
Syracuse Twist Drill Co. (Square), Syracuse, N. Y.
**TERRY & TENCH CO. (Inc.), (For** Bridge Builders), Grand Central Terminal, New York (See adv. index, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiedeke, Gustav & Co. (Rivet Hole, One-Half Taper & One-Fourth Straight & Shank), Dayton, O.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 9440a—Reamers (Twist Lathe)

**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 9441—Reamers (Valve Reseating)

Lord, L. L. Co. ("Lord"), Meadville, Pa.

## 9442— Receivers (Steam)

Conolly, D. Boiler Co., Cleveland, O.

## 9443—Receptacles (Hard Fibre)

**MORRIS ELECTRIC CO., Wilming**ton, Del.

## 9444—Rceptacles (Ordinary & Sign)

(See also Plugs, Attachment; also Sockets)

Arrow Electric Co., Hartford, Conn.
Bryant Electric Co., Bridgeport, Conn.
Crouse-Hinds Co. ("Norbitt"), Syracuse, N. Y.
Electric Motor & Equipment Co. ("Brewster-Universal"), 13 Beaver, Newark, N. J.
Freeman, E. H. Electric Co. ("Russell," Sign, Porcelain for Metal Faced Signs), Trenton, N. J.
**GENERAL ELECTRIC CO., Schenec**tady, N. (See adv. index & branch offices, end of book)
**HART MFG. CO. ("Diamond H"),** 103 Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)
**Hubbell, Harvey (Inc.) (Floor), Bridgeport,** Conn.
Paiste, H. T. Co. ("Fielding"), 32d & Arch, Phila., Pa.
Pass & Seymour ("P. & S." Waterproof, etc.), Solvay, N. Y.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Stanley & Patterson ("Newcode"), 23 Murray, New York
Tregoning Electric Mfg. Co., Cleveland, O.
Trumbull Electric Mfg. Co., Plainville, Conn.
Weeks, Nelson, 217 William, New York

## 9444a—Record Holders (Wire Phonograph)

Stanley & Paterson, 23 Murray, New York
Syracuse Wire Works, Syracuse, N. Y.

## 9445— Recorders (Cash)

Hough Cash Recorder Co. ("Security"), Indian Orchard, Mass.

## 9446—Recorders (Combustion)

Precision Instrument Co. ("Simmance-Abady"), Detroit, Mich.
Sarco Fuel Saving & Engineering Co. ("Sarco"), 90 West, New York
Terminal Engineering Co. ("Simmance" & "Abady's" Imported), 30 Church, New York
Uehling Instrument Co., Passaic, N. J.

## 9447—Recorders (Elevator Travel)

**ELEVATOR SUPPLY & REPAIR CO.,** 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9448— Recorders (Machine)

National Machine Recorder Co. ("National", to record Time or Labor Lost on Machines, etc.), Marquette bldg, Chicago, Ill.


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## 9449—Recorders (Moscrop, Continuous Speed)

Ashcroft Mfg. Co. (For Steam, Electric, Cable, Engine & Water Motors), 85 Liberty, New York

## 9450—Recorders (Pressure & Speed)

Du Vivier, Ernest H., 30 Church, New York
Easterline Co., Inc. ("Esterline", Speed), Lafayette, Ind.
**NATIONAL GAUGE CO., 168 Sth, Brooklyn, N.Y. (See adv. index, end of book)**
**SCHAEFFER & BUDENBERG MFG.** Co. (Also Temperature), 963 Kent av, Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Uehling Instrument Co., Passaic, N. J.

## 9451—Recorders (Railway Speed)

**CHICAGO PNEUMATIC TOOL CO.,** Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Venango Mfg. Co., Franklin, Pa.

## 9452— Recorders (Smoke)

Hamler-Eddy Smoke Recorder Co. ("Eddy"), 3906 S Halsted, Chicago, Ill.

## 9453— Recorders (Time)

(See also Clocks, Time Recording System)

American Watchman's Time Detector Co. ("Cleveland Magneto"), 2069 E 4th, S E, Cleveland, O.
**BRISTOL CO. ("Bristol's" Electric** & Mechanical), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Buerk, J. E. ("Buerk"), 230 Washington, Boston, Mass.
Bundy, W. H. Recording Co., Syracuse, N. Y.
Cincinnati Time Recorder Co., Cincinnati, O.
Crouse-Hinds Co. ("Hawley"), Syracuse, N. Y.
Du Vivier, Ernest H., 30 Church, New York
Follett Time Recording Co., 675 Hudson, New York
Herzog Teleseme Co., 137 W 24th, New York
Holtzer-Cabot Electric Co. ("Watchmen's"), Brookline, Mass.
**HOWARD, E. CLOCK CO., 373 Washington,** Boston, Mass. (See adv. index & branch offices, end of book)
Imhauser, E. & Co. ("Watchman's"), 202 B'way, New York
International Time Recording Co. of N. Y. ("Rochester," "Bundy," "Chicago" & "International Card"), Endicott, N. Y.
Kastens, Henry, 418 W 27th, New York
Nanz Clock Co., 178 Fulton, New York
Penfield, C. M., Hartford, Conn.
Pettes & Randall Co., 150 Nassau, New York
Pneumatic Watchman's Check Co., Columbus, Ohio
Sanford, C. E., 18 Broadway, New York
Simplex Time Recorder Co. ("Simplex" Employee's), Gardner, Mass.
Stambaugh, Wm. B. (Automatic Time Dating Machines), Metropolitan Life bldg, New York
Standard Electric Time Co., Waterbury, Conn.
Trans-Cois Time Recorder Co. (Also Elapsed Recorders), Cleveland, O.

## 9454—Recorders (Water Level)

Du Vivier, Ernest H., 30 Church, New York

## 9455—Rectifiers (For Changing Alternating to Direct Current)

American Battery Co. ("American" Electrolytic), 1132 Fulton, Chicago, Ill.
Churcher Electric & Mfg. Co., Cincinnati, O.
Como Electrical Co. ("Hicko"), Asbury Park, N. J.
**GENERAL ELECTRIC CO. ("Mercury** Arc"), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Ruprecht Electrical Co., Cleveland, O.
Sirch Electrical & Testing Laboratories, Los Angeles, Cal.
**WESTINGHOUSE ELEC. & MFG. CO.** ("Cooper Hewitt"), Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 9456—Rectifiers (Mercury Arc)

**GENERAL ELECTRIC CO. (for** Changing Alternating Current to Direct Current), Schenectady, N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 9456a—Red Lead (Enamelers')

**NEVIN, T. H. CO., North Side, Pittsburg,** Pa. (See adv. index, end of book)

## 9457— Reds (Venetian)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cambria Paint & Color Co., Ltd., Johnstown, Pa.
Hanna & Andrus Mfg. Co. (English), Chicago, Ill.
Herrmann, Morris & Co., 200 5th, New York
Macneal's, James B. & Co. (American & English), Baltimore, Md.
Mepham, Geo. S. & Co., East St. Louis, Ill.
Sholes, Chas. E. Co., 164 Front, New York
Smith, J. Lee & Co., 19 Jacob, New York
Williams, C. K. & Co. ("Anchor Brand"), Easton, Pa.

## 9458—Reeds (Car Seat, Chair, Etc.)

National Patent Reed Co., Unionville, Conn.

## 9459—Reel Stand & Brake (Magnet Wire)

Device Improvement Co., Hanover, Pa.

## 9460—Reels (Blasting Cable)

Anderson, Homer, Peekskill, N. Y.
Independent Powder Co. of Missouri, Joplin, Mo.

## 9461— Reels (Centrifugal)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 9462— Reels (Chalk Line)

Bliss, R. Mfg. Co., Pawtucket, R. I.
Evansville Tool Works, Evansville, Ind.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Moulton, W. F., Manchester, N. H.
Sandusky Tool Co., Sandusky, O.
Stanley Rule & Level Co., New Britain, Conn.
Union Hardware Co., Torrington, Conn.

## 9463— Reels (Clothes Line)

Adams Co. (Revolving), Dubuque, Iowa
American Foundry & Mfg. Co., St. Louis, Mo.
Gehl Bros. Mfg. Co., West Bend, Wis.
Prairie State Mfg. Co. ("Prairie", Adjustable), Cedar Rapids, Ia.
Sommer's, John Son, Newark, N. J.
Swett, A. L. Iron Works, Medina, N. Y.

## Reels (Fire Hose)

(See Reels & Racks, Fire Hose)

## 9464— Reels (Fishing)

Gladding, B. F. & Co., So. Ostelic, N. Y.
Hendryx, Andrew B. Co., New Haven, Conn.
Horrocks-Ibbotson Co. ("Yawman"), Utica, N. Y.
Martin Automatic Fish Reel Co. ("Martin's" Automatic), Mohawk, N. Y.
Meek, B. F. & Son (Inc.), Louisville, Ky.
Meisselbach, A. F. & Bro.), ("Tak-a-part"), Newark, N. J.
Montague City Rod Co., Montague City, Mass.
South Bend Bait Co. (Anti-Back Lash), South Bend, Ind.

## 9465—Reels (Garden Hose)

Aten Lumber & Mfg. Co. (Wooden), Monroeville, O.
Caldwell Mfg. Co., Rochester, N. Y.
Cardington Cabinet Co. ("Ohio" Wood & All Metal), Cardington, O.
Celina Specialty Co. (Wooden), Celina, O.
Clearfield Woodenware Co. (Wooden), Clearfield, Pa.
Hollands Mfg. Co. (Metal), Erie, Pa.
Specialty Mfg. Co. (Detachable), St. Anthony Park, Minn.
Toledo Metal Wheel Co. (Metal), Toledo, O.
Union Mfg. & Lumber Co. (Wooden), Northville, Mich.
Whitehurst, R. W. Co. (Wooden), Norfolk, Va.
Wirt & Knox Mfg. Co. ("Wirt's"), 22 N 4th, Phila., Pa.

## 9466— Reels (Hexagon)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 9467—Reels (Leading Wire)

**du PONT, E. I. de NEMOURS POW-**der Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 9468— Reels (Mason)

Beall Bros. (Inc.), Alton, Ill.

## 9469—Reels (Payout & Take-Up)

Dicke Tool Co. ("Wasson"), Downers Grove, Ill.
Irish, W. F. Electric Co. ("Shamrock"), 66 Cortlandt, New York
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Meckel, Fred L., 11 E 13th, Chicago, Ill.
Minneapolis Electric & Construction Co., Minneapolis, Minn.
Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
Oshkosh Mfg. Co., Oshkosh, Wis.
Therien Tool Works, Minneapolis, Minn.
Woonsocket Shuttle Co., Woonsocket, R. I.

## 9470— Reels (Scalping)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 9471—Reels (Sifter Bolting)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.

## 9472— Reels (Wire)

Elgin Mfg. Co. ("McMahon" for Stringing Telephone & Telegraph Wires), Elgin, Ill.
Hallett Iron Works ("McMahon"), 519 W Polk, Chicago, Ill.
Hoefer Mfg. Co., Freeport, Ill.
Koegel, Chas. & Sons, Holyoke, Mass.
Miller Mfg. Co., Park Falls, Wis.
Mossberg, Frank Co., Attleboro, Mass.
Richmond Safety Gate Co., Richmond, Ind.
Sioux Falls Plow Co., Sioux Falls, S. D.
Spicer Mfg. Co., New Philadelphia, O.
Wasson Reel Co. ("Wasson"), Clinton, Ill.

## 9473— Reels (Wire Mill)

Blake & Johnson Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
**SHUSTER, F. B. CO. (Adjustable),** New Haven, Conn. (See adv. index, end of book)
Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.

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# SIMMONS REEL




Upon this reel is suspended the Line Fire Hose and to which at one end is attached a nozzle and to the other an angle valve connecting with water line. A turn of the valve wheel—a slight pull on the nozzle and, presto, you have your own Fire Department right on the spot and that is when you need it, right at the incipiency of a blaze.

**This reel, which can be finished in any tone to harmonize with interior decoration, is constructed of a finished metal.**

**JOHN SIMMONS COMPANY**

**110 Centre Street - - NEW YORK**


## 9474—Reels & Racks (Fire Hose)

**Allen, W. D. Mfg. Co. ("Bowes," "Dewey,"** "Hartford" Racks, & "Ryerson" Reels), 151 Lake, Chicago, Ill.
American Fire Apparatus Co., 1 Madison av, New York
Clay, John H. (Swinging), 1320 Ridge av, Phila., Pa.
Cliff & Guibert Co. ("A. B. C.", "Guibert"), 82 W B'way, New York
Donohue, M. ("Peerless" Swinging Racks), 81 Center, New York
**Elkhart Brass Mfg. Co. ("Elk," Hose Racks, "Elkhart" Swinging Hose Reels), Elkhart, Ind.**
**FAIRBANKS, MORSE & CO.** ("Fountain"), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hayward, S. F. & Co. (Fire Hose), 39 Park pl, New York
**Howard, H. J. M. Mfg. Co. ("Howard's"** Swinging), 915 E, N W. Washington, D. C.
**Howe Engine Co., Indianapolis, Ind.**
**Jiffy Fire Hose Rack Co. ("Jiffy" Fire Hose** Racks), 727 7th av, New York
**Manhattan Rubber Mfg. Co. (Swinging), 18 Vesey, New York, & Passaic, N. J.**
**Mineralized Rubber Co. ("The A. B. C."), 18 Cliff, New York**
Mulconroy Co. (Inc.) (Automatic Reels), 722 Arch, Phila., Pa.
**New York Coupling & Supply Co., 58 Ann, New York**
**Nuhring, Chas., & Bro. ("Safety" Swinging** & Automatic Racks), Cincinnati, O.
Revere Rubber Co. ("Schenck"), Boston, Mass.
Seagrave Co., Columbus, O.
**SIMMONS, JOHN CO. ("Yale" Reel),** 104 Centre, New York. (See adv. index, end of book)
Whitehurst, R. W. Co., Norfolk, Va.
Wirt & Knox Mfg. Co. ("Hump", "Royal" Rocks), 22 N 4th, Phila., Pa.

## 9475—Reflectors (Electric Light)

**(See Shades & Reflectors; also Reflectors, Various Kinds)**

## 9476—Reflectors (Enameled Iron)

American Metal Stamping Co., 20 E Herman, Phila., Pa.
**Baltimore Enamel & Novelty Co., Allen & Clement, Baltimore, Md.**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 9476a—Reflectors for Art Galleries

**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)

## 9477—Reflectors for Churches, Halls, Etc.

American Metal Stamping Co., 20 E Herman, Phila., Pa.
**American Reflector & Lighting Co., 517 W Jackson boul, Chicago, Ill.**
Bailey Reflector Co., 547 4th av, Pittsburg, Pa.
**Boesch Lamp Co., San Francisco, Cal.**
Dayton Mfg. Co., Dayton, O.
**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)
Gaumer, John L. Co., 22d & Wood, Phila., Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gillinder & Sons (Inc.) (Glass), 135 Oxford, Phila., Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Glemm & Co., 132 N 5th, Phila., Pa.
Kraushaar Brass Mfg. Co., St. Louis, Mo.
**McCreary, A. A. ("McCreary"), 136 Liberty, New York**
**Mitchell-Vance Co., 836 B'way, New York**
**National X-Ray Reflector Co., 245 E. Jackson boul., Chicago, Ill.**
Sunlight Reflector Co., 141 Court, Brooklyn, N.Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

## 9477a—Reflectors for Daylight

**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)

## Reflectors (Glass & Porcelain)

**(See Shades & Reflectors, Glass & Porcelain)**

## 9478— Reflectors (Lantern)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)

## Reflectors (Metallic)

**(See Shades & Reflectors, Metallic)**

## Reflectors (Mirror)

**(See Shades & Reflectors, Mirror)**

## 9478a—Reflectors (Oil Lamp)

**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)

## 9479—Reflectors (Show Case)

**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)

## 9480— Reflectors (Window)

**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)

## 9481— Reflectoscopes

Thompson, Albert T. & Co., Boston, Mass.

## 9482— Refractometers

Bausch & Lomb Optical Co., Rochester, N. Y.
Eberbach & Son Co., Ann Arbor, Mich.

## 9483—Refrigerating Apparatus (Electric)

Wolf, Fred. W. Jr., 279 Dearborn, Chicago, Ill.

## 9484— Refrigerators

Alaska Refrigerator Co. ("Ford" Opal Glass, etc.), Muskegon, Mich.
Atkin, C. B. Co., Knoxville, Tenn.
Baldwin Refrigerator Co., Burlington, Vt.
**Belding-Hall Mfg. Co., Belding, Mich.**
Brunswick-Blake-Collender Co., 263 Wabash av, Chicago, Ill.
Challenge Refrigerator Co. ("Challenge Iceberg", "Triumph", "Grand"), Grand Haven, Mich.
Chattahoochee Furniture Co., Flowery Branch, Ga.
Cincinnati Butchers' Supply Co. (Chinalin-Lined), Cincinnati, O.
Cleveland Store Fixture Co., Cleveland, O.
Cold Storage Refrigerator Co., Eau Claire, Wis.
Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
**Dana Mfg. Co. ("Dana Iceless"), Cincinnati,**
Dillingham Mfg. Co., Sheboygan, Wis O.
Eddy, D. & Sons Co., 336 Adams, Boston, Mass.
Ehrlich, H. & Sons, St. Joseph, Mo.
Ehlers, Robt. J. Co., 432 Lexington av, New York
Fort Smith Refrigerator Works, Fort Smith, Ark.
Gibson Refrigerator Co., Greenville, Mich.
**Grand Rapids Refrigerator Co., Grand Rapids, Mich.**
Gurney Refrigerator Co., Fond du Lac, Wis.
Hall, A. D. & Sons, 33 Spice, Boston, Mass.
Heinz & Munschauer ("Zero", "Buffalo", "Polar," "Erie," "Niagara," "Climax"), Buffalo, N. Y.
Herrick Refrigerator Co., Waterloo, Ia.
Herrmann, H. Furniture Co., 254 Canal, New York
Holrah & Dieckmann Refrigerator & Fixture Co., 615 Walnut, St. Louis, Mo.
**Illinois Refrigerator Co., Morrison, Ill.**
Indiana Mfg. Co. ("North Star"), Peru, Ind.
Jewett, John C. Mfg. Co., Buffalo, N. Y.
**Jointless Refrigerator Mfg. Co. (Seamless** White Interior), Milwaukee, Wis.
Knoell, John & Sons (Inc.), 171 Jefferson, Phila., Pa.
Koch Butchers' Supply Co., Kansas City, Mo.
**Lorillard Refrigerator Co., 25 W. 32nd, New York**
McCray Refrigerator Co., Kendallville, Ind.
Mace, L. H. & Co., 111 E Houston, New York
Maine Mfg. Co., Nashua, N. H.
Metal Stamping Co. (Metal, "White Frost"), Jackson, Mich.
Monroe Refrigerator Co. (Porcelain), Lock-
**New Farson Mfg. Co., Chester, Pa. land, O.**
Northern Refrigerator Co., Grand Rapids, Mich.


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Odorless Refrigerator Co., Chattanooga, Tenn.
Opal Refrigerator Co., Kendallville, Ind.
Ranney Refrigerator Co., Greenville, Mich.
Rhinelander Refrigerator Co., Rhinelander, Wis.
Seeger Refrigerator Co., St. Paul, Minn.
Seidel Furniture Mfg. Co., New Orleans, La.
Steinfield Bros., 620 B'way, New York
Traverse City Refrigerator Co., Traverse City, Mich.
United Refrigerator & Ice Machine Co., Kenosha, Wis.
Viking Refrigerator & Mfg. Co., Kansas City, Mo.
Vogt, Peter A., Bffalo, N. Y.
Walrus Mfg. Co., Decatur, Ill.
Western Cabinet & Fixture Mfg. Co., Kansas City, Mo.
White Enamel Refrigerator Co., St. Paul, Minn.
Wilke Mfg. Co., Anderson, Ind.
Wisconsin Refrigerator Co., Eau Claire, Wis.

## 9485—Refrigerators (Iceless)

Galesburg Cornice Works ("W-M"), Galesburg, Ill.

## 9486—Refrigerators & Cooling Rooms

Alaska Refrigerator Co., Muskegon, Mich.
Baldwin Refrigerator Co., Burlington, Vt.
Cooper, Madison Co. (Refrigerating Architects & Engineers), Watertown, N. Y.
Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
Gloekler, Bernard Co. (Refrigerators only), Pittsburg, Pa.
Grand Rapids Refrigerator Co., Grand Rapids, Mich.
Gurney Refrigerator Co., Fond du Lac, Wis.
Heinz & Meunschauer, Buffalo, N. Y.
Holmes, C. D. Co., Boston, Mass.
Illinois Refrigerator Co., Morrison, Ill.
Indiana Mfg. Co., Peru, Ind.
Jewett Refrigerator Co., Buffalo, N. Y.
Lorillard Refrigerator Co., 25 W 32d, New York
McCray Refrigerator Co. (All Sizes & Constructions), Kendallville, Ind.
Maine Mfg. Co., Nashua, N. H.
Perkins Mfg. Co., St. Paul, Minn.
Randall, R. T. & Co. (Butchers, etc.), 333 N 2d, Phila, Pa.
Ranney Refrigerator Co., Greenville, Mich.
Rhinelander Refrigertaor Co., Rhinelander, Wis
Ridway Refrigertaor Co., 615 N Broad, Phila,
Stevens, B. A. Co., Toledo, O. Pa.
United Refrigerator & Ice Machine Co., Kenosha, Wis.
Viking Refrigerator & Mfg. Co., Kansas City, Mo.
White Enamel Refrigerator Co. ("Bohn" Syphon System for Refrigerator & Dining Cars), St. Paul, Minn.
Wilke Mfg. Co., Anderson, Ind.
Wisconsin Refrigerator Co., Eau Claire, Wis.
Wolf, Sayer & Heller, Fulton, Peoria, Chicago, Ill.

## 9487—Refrigerators & Cooling Rooms (Glass Lined)

Alaska Refrigerator Co., Muskegon, Mich.
Baldwin Refrigerator Co., Burlington, Vt.
Cooper & McKee (Opalite), 113 Lorimer, Brooklyn, N. Y.
Jewett Refrigerator Co., Buffalo, N. Y.
Lorillard Refrigerator Co., 25 W. 32nd, New York
McCray Refrigerator Co., Kendallville, Ind.
White Enamel Refrigerator Co., St. Paul, Minn.
Wilke Mfg. Co., Anderson, Ind.

## 9488—Refrigerators & Cooling Rooms (Tile Lined)

Baldwin Refrigerator Co., Burlington, Vt.
Jewett Refrigerator Co., Buffalo, N. Y.
McCray Refrigerator Co. (Also Opal Tile Lined), Kendallville, Ind.
Stevens, Benj. A., Co., Toledo, O.
Viking Refrigerator & Mfg. Co., Kansas City, Mo.
White Enamel Refrigerator Co., St. Paul, Minn.
Wilke Mfg. Co., Anderson, Ind.

## 9489— Regenerators (Steam)

Rateau Steam Regenerator Co. ("Rateau"), 2 Rector, New York

## 9490—Registers (Autographic)

Autographic Register Co. ("Shoup's"), Hoboken, N. J.
Carter-Crume Co., Niagara Falls, N. Y.
Egry Autographic Registry Co. (For Billing Sales & Shipping), Dayton, O.
Globe Register Co., Cincinnati, O.
Hamilton Autographic Register Co., Hamilton, Ohio
International Time Recording Co. of New York ("Bundy"), Endicott, N. Y.
Krauth & Benninghofen, Hamilton, O.
McCaskey Register Co., Alliance, O.
United Autographic Register Co., 556 W Jackson boul, Chicago, Ill.

## 9491—Registers (Car Fare)

(See Also Boxes, Fare)

Benton Mfg. Co., 9 Bethune, New York
Dayton Fare Recorder Co., Dayton, O.
International Register Co. (Single & Double), 625 W Jackson boul, Chicago, Ill.
Ohmer Fare Register Co., Dayton, O.
Pay-As-You-Enter Car Co. ("McDonald"), 50 Church, New York
Recording Register & Fare Box Co. (Tallying & Hand Tally), New Haven, Conn.
Recording & Computing Machine Co., Dayton, Ohio
Rooke Automatic Register Co. (Automatic), Providence, R. I.
Sterling-Meaker Co., Newark, N. J.
Woodman, R. Mfg. & Supply Co. (Hand), Boston, Mass.

## 9492— Registers (Cash)

American Cash Register Co., Columbus, O.
Brandt-Dent Co., Watertown, Wis.
Burdick-Corbin Co., Detroit, Mich.
Hough Cash Recorder Co. ("Security"), Indian Orchard, Mass.
Michigan Cash Register Co., Detroit, Mich.
National Cash Register Co., Dayton, O.
Whiting Mfg. Co., Northboro, Mass.

## 9493— Registers (Engine)

NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
SCHAEFFER & BUDENBERG MFG. Co. (Round Case), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 9494— Registers (Grain)

Advance Thresher Co., Battle Creek, Mich.
Champion Thresher Co., Orrville, O.
Howell Mfg. Co., Minneapolis, Minn.
Huber Mfg. Co., Marion, O.
Nichols & Shepard Co., Battle Creek, Mich.
Nordyke & Marmon Co., Indianapolis, Ind.
Port Huron Engine & Thresher Co., Port Huron, Mich.

## 9495—Registers (Hand Tally)

Benton Mfg. Co., 9 Bethune, New York
Pratt & Whitney Co., Hartford, Conn.
Root, C. J., Bristol, Conn.
Woodman Mfg. & Supply Co., Boston, Mass.

## 9496— Registers (Hot Air)

Auer Register Co., Cleveland, O.
Best Register Co. ("Arabian"), Milwaukee, Wis.
Columbian Hardware Co. ("Tubo" Wrought Steel), Cleveland, O.
Detroit Register Co., Detroit, Mich; Works: Ferrosteel Co., Cleveland, O. Milan, Mich.
HART & COOLEY CO. (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
Highton, Wm. & Sons, Nashua, N. H.
Independent Register & Mfg. Co., Cleveland, Ohio
Mueller, L. J. Furnace Co. (Steel & Cast Iron, Wall & Floor), Milwaukee, Wis.
Phila. Hardware & Malleable Iron W'ks (Inc.) ("Colonial"), 9th & Jefferson, Phila., Pa.
Rhodes Mfg. Co., Grand Rapids, Mich.
Standard Foundry & Mfg. Co., Cleveland, O.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Stowell Mfg. & Foundry Co. (Floor & Side Wall), South Milwaukee, Wis.
Symonds Mg. Co. (Wall), St. Louis, Mo.
Syracuse Stove Works ("Kernan Welcome"), Syracuse, N. Y.
TUTTLE & BAILEY MFG. CO. (Cast Iron, also Wrought Steel), 76 Madison av, New York. (See adv. index & branch offices, end of book)
U. S. Register Co. ("Jones" Side Wall Ventilating), Battle Creek, Mich.
Walworth Run Foundry Co., Cleveland, O.
Waterloo Register Co., Waterloo, Ia.

## 9497—Registers (Hot Water)

Excelsior Steel Furnace Co., 517 W Monroe, Chicago, Ill.

## 9498—Registers (Pressure, for Gas Works)

Connelly Iron Sponge & Governor Co., 127 Duane, New York

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## 9499—Registers (Stove Pipe)

Adams Co., Dubuque, Ia.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Stover Mfg. Co., Freeport, Ill.

## 9500— Regulators (Air)

Charm Air Regulator Co. (Aluminum), 966 Myrtle av, Brooklyn, N. Y.
**LYTTON MFG. CORP. ("Lytton"),** 1159 Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)

## 9501—Regulators (Blower, Electric)

**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 9501a—Regulators (Boiler Feed)

(See Regulators, Feed Water)

## 9502—Regulators (Compressor, Electric)

**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 9503—Regulators (Controller, Electric Railway)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 9504—Regulators (Damper)

(See also Regulators, Furnace; also Regulators, Pressure)

Acton, John ("The Acme"), Brooklyn, N. Y.
American Radiator Co. ("Sylphon"), 282 Michigan av, Chicago, Ill.
Atwood & Morrill ("XX Century"), Salem, Mass., & 136 Liberty, New York
Automatic Damper Co. ("Ferdinand"), Milwaukee, Wis.
Berry Engineering Co. ("Berry"), Chester, Pa.
Blake & Williams, 24 Barrow, New York
Burrows Mfg. Co. (Automatic), York, Pa.
Bushnell, Jno. S. & Co. ("Carmichael"), 174 Fulton, New York
Collins, Frank E. J. ("Collins" Automatic), Conshohocken, Pa.
Crandon Mfg. Co. ("Crandon" Automatic Thermostat), Bellows Falls, Vt.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.
D'Este, Julian Co. ("Curtis"), Boston, Mass.
Diamond Power Specialty Co. ("Diamond"), Detroit, Mich.
Doolittle, S. B. & Son ("Economy"), Binghamton, N. Y.
Ford, Thos. P. Co., 407 Broome, New York
Foskett & Bishop Co., New Haven, Conn.
Garrett, W. D. & Co. ("Locke" & "Spencer" Type), 136 Liberty, New York
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)
Hess & Barker ("Kellum" Improved), 605 Sansom, Phila., Pa.
Howard Thermostat Co. ("Howard" Automatic Damper & Valve Regulator), Oswego, N. Y.
Kauffman Heating & Engineering Co., St. Louis, Mo.
Kellogg-Mackay Co. ("Morgan's" for Steam & Hot Water), 403 W 18th, Chicago, Ill.
Kelly & Jones Co. (Low Pressure & "Clarks", High Pressure), Pittsburg, Pa.
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Kieley & Mueller (Improved "Climax"), 34 W 13th, New York
Kipp, A. C. & Son, Ossining, N. Y.
**Kitts Mfg. Co.** (Steam Boilers), Oswego, N. Y.
Lagonda Mfg. Co., Springfield, O.
Lawler Regulator Co. (Hot Water), 473 W B'way, New York
Lippincott Steam Specialty & Supply Co., Newark, N. J.
Locke Regulator Co. (Steam), Salem, Mass.
Lonergan, J. E. & Co. ("Kellam" Steam), 211 Race, Phila., Pa.
Mason Regulator Co., Boston, Mass.
Mueller, H. Mfg. Co., Decatur, Ill.
**NASON MFG. CO. (Low Pressure) 71** Fulton, New York. (See adv. index, end of book)
Newbury, J. H. (Low Pressure), Goshen, N. Y.
Newbury Mfg. Co. (Low Pressure), Monroe, N. Y.
Patterson Machine Co. (Hydraulic), Baltimore, Md.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Powers Regulator Co., 40 Dearborn, Chicago, Ill.
Reams, O. M. Steam Economy Co., Cleveland, Ohio
Robertson, Jas. L. & Son (Inc.), 78 Murray, New York
Rutzler, E. Co. (Pressure), 404 E 49th, New York
Spencer Regulator Co. ("Spencer"), Salem, Mass.
Standard Regulator Co. ("Victor"), 90 West, New York
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Stillman-Carmichael Co. ("Stillman-Carmichael"), 19 Pearl, Boston, Mass.
Tagliabue, Chas. J. Mfg. Co. (Automatic), 396 B'way, New York
Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.
Thompson, Richard & Co. ("Thompson & Spencer" High or Low Pressure), 126 Liberty, New York
Watts Regulator Co. ("The Lawrence"), Lawrence, Mass.

## 9505—Regulators (Dynamo Field)

**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 9507—Regulators (Electric Fan)

**CUTLER-HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## Regulators (Electric Pump)

(See Governors, Electric Pump)

## 9508—Regulators (Exhaust Pressure)

**LUKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 9509—Regulators (Fan Engine)

**Atwood & Morrill ("XX Century"), Salem, Mass., & 136 Liberty, New York**
**Davis, G. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.**
**Foster Engineering Co. (For Induced or Forced Draft),** Newark, N. J.
**Kitts Mfg. Co., Oswego, N. Y.**
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
**Rice, Barton & Fales Machine Co., Worcester, Mass.**
**Ross Valve Mfg. Co., Troy, N. Y.**
**St. Louis Steam Engine Co., St. Louis, Mo.**
Star Brass Mfg. Co., Boston, Mass.
**STRONG, CARLISLE & HAMMOND CO. ("Strong"), 336 Frankfort av, N W,** Cleveland, O. (See adv. index, end of book)
**Union Water Meter Co., Worcester, Mass.**
Waters Governor Co., Everett, Mass.
Watson & McDaniel Co. (For Steam, Water & Air), 146 N 7th, Phila., Pa.
Watts Regulator Co., Lawrence, Mass.

## 9510—Regulators (Feed Water)

(See also Governors, Pump)

Atlas Engineering Co., Newark, N. J.
Berry Engineering Co. ("Berry"), Chester, Pa.
Bissett, R. J. Co. ("Cleveland"), Cleveland, O.
Bordo, L. J. Co. ("Bordo" Feed Water Governor), 12th & Thompson, Phila., Pa.
Boston Steam Specialty Co., Boston, Mass.
Burrows Mfg. Co. ("Burrows"), York, Pa.
Chaplin-Fulton Mfg. Co. ("Vigilant"), Pittsburg, Pa.
Elliott Co. ("Liberty"), Pittsburg, Pa.
Ford, Thos. P. Co. ("Ford"), 407 Broome, New York
Foster, F. W. Mfg. Co. ("Nev-R-Lek"), Boston, Mass.
Jerguson Mfg. Co. ("Wiltbonco"), Boston, Mass.
**Kitts Mfg. Co. (Safety),** Oswego, N. Y.
Knapp Bros. Mfg. Co. ("Knapp's" Automatic, for Boiler Feed Pumps), 2419 W 14th, Chicago, Ill.
**Liberty Mfg. Co. ("Liberty"), Pittsburg, Pa.**
Locke Regulator Co., Salem, Mass. burg, Pa.
McCrea, Jas. & Co. ("Rowe"), 65 W Washington, Chicago, Ill.
Murray Automatic Boiler Feed Co., Detroit, Mich.
Northern Equipment Co. ("Copes" Boiler Feed), 408 W Indiana, Chicago, Ill.
Roche Engineering Co. ("Evans," Automatic), Weightman bldg., Phila., Pa.
S. C. Regulator Co. ("S. C."), Fostoria, O.
Safety Equipment Mfg. Co. ("Gould"), 181 Vanburen, Chicago, Ill.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Steigert, Leopold (Automatic), Cincinnati, O.
**STRONG, CARLISLE & HAMMOND** Co. (Hydromatic), 336 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
Universal Engineering Co. ("Watch Dog"), Scranton, Pa.
Williams Gauge Co. ("Williams" Automatic Safety), Pittsburg, Pa.

## 9511—Regulators (Fuel, Oil or Gas)

Ziermore Regulator Co. ("Ziermore"), Johnsonburg, Pa.

## 9512—Regulators (Furnace)

Farquhar Furnace Co. ("Farquhar"), Wilmington, O.
Kees, F. D. Mfg. Co. ("Kees", "Fuelsaver"), Beatrice, Neb.
Lawler Regulator Co., 473 W B'way, New York
Quaker Mfg. Co. (Furnace Time Regulators), Chicago Heights, Ill.
Ridgeway Furnace Co., Boston, Mass.
Riverside Mfg. Co., Newark, N. J.
Rowe, L. L., 72 Portlan, Boston, Mass.
White, C. H. Heating Co. (Automatic), 22 Bowker, Boston, Mass.

## 9513— Regulators (Gas)

**STRONG, CARLISLE & HAMMOND CO.** ("Strong"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 9514—Regulators (Gas Pressure)

Baylis Co. ("Colonial"), Bloomfield, N. J.
Bishop-Babcock-Becker Co. (Carbonic Acid), Cleveland, O.
Boyce, Myron J., 584 Hudson, New York
Chaplin-Fulton Mfg. Co. ("Fulton"), Pittsburg, Pa.
Combustion Utilities Co., 60 Wall, New York
Crane, Wm. M. Co. ("Perfect Vulcan"), 16 W 32d, New York
Equitable Meter Co. ("Crawford" Sensitive), 439 Water, Pittsburg, Pa.
Evans Mfg. Co., Butler, Pa.
Foster Engineering Co., Newark, N. J.
Gilfillian, F. C., Ebenezer, N. Y.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Hughson Steam Specialty Co. ("Eclipse"), 5021 S State, Chicago, Ill.
Jacobson Machine Mfg. Co., Warren, Pa.
**LYTTON MFG. CORP. ("Lytton"),** 1159 Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)
McLaughlin, Geo. C. Mfg. Co., Boston, Mass.
Noye Mfg. Co., Buffalo, N. Y.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

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Perfect Gas Controller & Fixture Co., 56 5th av, Chicago, Ill.
**PITTSBURG METER CO., East Pittsburg, Pa.**
Powers Regulator Co. (Natural Gas), 40 Dearborn, Chicago, Ill.
Reynolds Gas Regulator Co. (Low Pressure for Natural Gas), Anderson, Ind.
**SCHAEFFER & BUDENBERG MFG.** Co. ("Gartrells" Patent), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Turnbull-Smith Co., Syracuse, N. Y.
Turner Brass Works, Sycamore, Ill.
**UNION WATER METER CO., Worcester, Mass.** (See adv. index, end of book)
Wright, Geo., Lapel, Ind.

## 9515– Regulators (Heat)

(See also Thermostats)

American Radiator Co. ("Sylophone"), 282 Michigan av, Chicago, Ill.
Atwood & Morrill ("XX Century"), Salem, Mass.
Beers Bros. Thermostat Co., Rochester, N. Y
Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
Crandon Mfg. Co., Bellows Falls, Vt.
D'Este, Julian Co. ("Curtis"), Boston, Mass.
Electric Heat Regulator Co. (Automatic), Minneapolis, Minn.
Enterprise Mfg. Co., Newburgh, N. Y.
Geissinger Regulator Co., 203 Greenwich, New York
Halsey Mfg. Co. ("Halsey", Automatic Thermostat), Lynn, Mass.
Hawkins-McCain Co. (Automatic), Indianapolis,
Howard Thermostat Co., Oswego, N. Y. Ind.
International Heater Co., Utica, N. Y.
Jewell Mfg. Co., Auburn, N. Y.
Johnson Service Co. ("Johnson" System of Temperature Regulating), Milwaukee, Wis.
Klipfel Mfg. Co. ("Swan"), 214 N Carpenter, Chicago, Ill.
Lawler Regulator Co., 473 W B'way, New York
**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)
Locke Regulator Co. ("Locke's" Office Heating), Salem, Mass.
Mack Automatic Heat Regulator Co. (Automatic), Detroit, Mich.
**National Regulator Co. (For Control of Dampers & Valves in a Heating Apparatus), 540 W Harrison, Chicago, Ill.**
National Steam Specialty Co. ("National" Heat Controller), 16 S Clinton, Chicago, Ill.
Powers Regulator Co., 40 Dearborn, Chicago, Ill.
Standard Regulation Co. ("Victor"), 90 West, New York
Tagliabue, Chas. J. Mfg. Co. (Automatic), 396 B'way, New York
**Taylor Instrument Cos. ("Tycos"), Rochester, N. Y.**
Thermograde Valve Co., Boston, Mass.
Utica Steam Gauge Co., Frankport, N. Y.
Weld, Geo. A. Co., Boston, Mass.
Woodward, Frank E. & Co. ("Fowler" Automatic Draft Regulator), 19 Friend, Boston, Mass.

## 9516–Regulators (Hot Water)

**KEWANEE BOILER CO. ("Kewanee").** Kewanee, Ill. (See adv. index & branch offices, end of book)
Lawler Regulator Co., 473 W B'way, New York
Standard Regulator Co. ("Victor"), 90 West, New York
Weld, Geo. A. Co. ("Weld", Automatic Damper Regulators), Boston, Mass.

## 9517–Regulators (Hydraulic)

Locke Regulator Co., Salem, Mass.
Patterson Machine Co., Baltimore, Md.
Waters Governor Co., Everett, Mass.

## 9518–Regulators (Moisture)

Johnson Service Co. (Humidostat), Milwaukee, Wis.

## 9519–Regulators (Motor Speed)

**CUTLER HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 9520– Regulators (Oil)

**ROCKWELL FURNACE CO., 26 Cortlandt, New York.** (See adv. index, end of book)

## 9521–Regulators (Organ, Electric)

**CUTLER HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 9522–Regulators (Pressure)

Acton, John, 118 John, Brooklyn, N. Y.
**American District Steam Co. (Steam), North Tonawanda, N. Y.**
Atlas Engineering Co., Newark, N. J.
Belfield, H. & Co. (High & Low Pressure), 435 N Broad, Phila., Pa.
**Bridgman Bros. Co., 146 Wash'n av, Phila., Pa.**
Buckeye Iron & Brass Works, Dayton, O.
Burrows Mfg. Co., York, Pa.
Burton & Johnson, Cleveland, O.
Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
Collins Mfg. Co. ("Collins" Automatic Oil), 612 Chestnut, Phila., Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**CUTLER-HAMMER MFG. CO. (Electrically Operated Pressure Regulators for Use in Connection with Motor Driven Pumps & Air Compressors), Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.
D'Este, Juliau Co., 24 Canal, Boston, Mass.
Dow, Geo. E. Pumping Engine Co., San Francisco, Cal.
Foster Engineering Co. (For Air, Ammonia, Steam, Gas, Oil, etc.), 119 Monroe, Newark, N. J.
Gilchrist, Geo. E. Co. ("The Boston"), 106 High, Boston, Mass.
**GARDNER GOVERNOR CO. ("Gardner"** Speed & Pressure), Quincy, Ill. (See adv. index & branch offices, end of book)
Imperial Brass Mfg. Co. ("Imperial" for Automobile & Motor Boat), 444 S Jefferson, Chicago, Ill.
Johnson Service Co. (Pressure Governors & Reducing Valves for Steam, Water, Gas & Air), Milwaukee, Wis.
Kielev & Mueller (Steam), 34 W 13th, New
**Kelly & Jones Co., Pittsburg, Pa.** York
Kipp, A., Jr., Ossining, N. Y.
Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.
Lawler Regulator Co., 473 W B'way, New York
**Leslie Co. (Inc.), ("Leslie"), Lyndhurst, N. J.**
Locke Regulator Co. ("New Era," Steam), Salem, Mass.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**LYTTON MFG. CORP. ("Lytton," for** High & Low Pressure), 1159 Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)
Mason Regulator Co., Boston, Mass.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
Ohio Brass Co. ("Ohio"), Mansfield, O.
Pittsburg Valve & Fittings Co., Barberton, O.
Reams, O. M. Steam Economy Co. ("Economy" Steam), Cleveland, O.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Ross Valve Mfg. Co. (Air, Steam & Water), Troy, N. Y.
Spencer Regulator Co. ("Spencer"), Salem, Mass.
Standard Regulator Co. ("Victor"), 90 West, New York
**STRONG, CARLISLE & HAMMOND CO.** ("Strong"), 336 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
Tagliabue, Chas. J. Mfg. Co. (Automatic), 396 B'way, New York
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.
Trask Heating Co., 4 Merrimac, Boston, Mass.
**UNION WATER METER CO. (Steam),** Worcester, Mass. (See adv. index, end of book)
Waters Governor Co., Everett, Mass.
Watson & McDaniel Co. (For Steam, Water & Air), 146 N 7th, Philadelphia, Pa.
Watts Regulator Co., Lawrence, Mass.
Ziermore Regulator Co. ("Ziermore" Pressure Controlling), Johnstown, Pa.

## 9523–Regulators (Pressure, for Cane Mills)

**Buchel Machine Works, New Orleans, La.**

## Regulators (Pump)

(See Governors, Pump)

## 9524–Regulators (Rheostat)

**CUTLER HAMMER MFG. CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 9525– Regulators (Slasher)

Atwood & Morrill ("XX Century"), Salem, Mass., & 136 Liberty, New York
Locke Regulator Co., Salem, Mass.

## 9526– Regulators (Speed)

(See Controllers, Various Kinds; also Indicators, Various Kinds)

## Regulators (Steam Engine)

(See Governors, Steam Engine)

## 9527–Regulators (Steam Heat, for Train Service)

Foster Engineering Co., 119 Monroe, Newark,
Locke Regulator Co., Salem, Mass. N. J.

## 9528–Regulators (Tank, Hot Water)

American Radiator Co. ("Ideal" Syphon), 282 Michigan, Chicago, Ill.
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
National Regulator Co., 540 W Harrison, Chicago, Ill.
Powers Regulator Co., 40 Dearborn, Chicago, Ill.
Weld, Geo. A. Co. ("Weld"), 41 Lincoln, Boston, Mass.

## 9529–Regulators (Temperature)

(See Regulators, Heat)

## 9530–Regulators (Voltage)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Gilmore Electric Co. ("Chapman"), Boston, Mass.
Keystone Electric Co. ("Pusey"), 135 S 10th, Phila., Pa.
Lincoln Electric Co., Cleveland, O.
Portland Co. ("W. H. C."), Portland, Me.
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 9531– Regulators (Water)

**STRONG, CARLISLE & HAMMOND CO.** ("Strong"), 336 Frankfort av., N. W. Cleveland, O. (See adv. index, end of book)

## 9532–Regulators (Water Pressure)

Aneshaensel, C. & Co. ("Reliable"), Indianapolis, Ind.
Atwood & Morrill ("X. X. Century"), Salem, Mass., & 136 Liberty, New York
Bishop & Babcock Co., Cleveland, O.
Chapin-Fulton Mfg. Co., Pittsburg, Pa.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Davis, Geo. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Ford, Thos. P. Co., 407 Broome, New York
Foster Engineering Co., 119 Monroe, Newark, Haydenville Co., Haydenville, Mass. N. J.
Kieley & Mueller, 34 W 13th, New York
Locke Regulator Co. ("New Era"), Salem, Mueller, H. Mfg. Co., Decatur, Ill. Mass.
Powers Regulator Co., 40 Dearborne, Chicago,
Ross Valve Mfg. Co., Troy, N. Y. Ill.
Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
**UNION WATER METER CO., Worcester, Mass.** (See adv. index, end of book)
Watts Regulator Co. ("Watts"), Lawrence, Mass.

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## Regulators (Water Wheel)
(See Governors, Water Wheel)

## 9533—Regulators (Windmill)
Althouse Wheeler Co., Waupun, Wis.
Baker Mfg. Co. ("Baker"), Evansville, Wis.
Celina Mfg. Co., Celina, O.
Challenge Co., Batavia, Ill.
**DEMING CO., Salem, O., & 223 N Jefferson, Chicago, Ill.** (See adv. index, end of book)
Dempster Mfg. Co., Des Moines, Ia.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Flint & Walling Mfg. Co., Kendallville, Ind.
Heller, Aller & Co. (Hydraulic), Napoleon, O.
Hunt, Helm, Ferris & Co. ("The Star" & "Champion"), Harvard, Ill.
Kelly Mfg. Co., Waterloo, Iowa
Mast, Foos & Co., Springfield, O.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Red Cross Mfg. Co. ("Acme"), Bluffton, Ind.
Red Jacket Mfg. Co., Davenport, Ia.
Stover Mfg. Co., Freeport, Ill.
Vail & Smith Co., Weston, Mich.
Walker Mfg. Co., Council Bluffs, Iowa
Woodmanse Mfg. Co., Freeport, Ill.

## 9534— Reheaters (Air)
**INGERSOLL-RAND CO., 11 B'way, New York.** (See adv. index & branch offices, end of book)
**WHEELER CONDENSER & ENGI**neering Co. ("Wheeler" Improved), Carteret, N. J. (See adv. index & branch offices, end of book)

## 9535—Relays for Electrical Contact
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
General Railway Signal Co., Rochester, N. Y.
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 9536—Remnants (Rubber Belt)
**BOSTON BELTING CO., 256 Devonshire, Boston, Mass.** (See adv. index & branch offices, end of book)
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

## Removers (Crown Seal)
(See Openers, Bottle)

## 9537—Renovators (Feather)
Bushnell Tank Works, Bushnell, Ill.

## 9538—Repairs (Electrical Machinery)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC COMPANY,** Mansfield, O. (See adv. index, end of book)

## 9539— Replacers (Car)
**Adreon & Co. ("Fewing's"), St. Louis, Mo.**
Aldon Co. ("Aldon"), Monadnock blk, Chicago, Ill.
Alexander Car Replacer Mfg. Co., Scranton, Pa.
**Buda Co. ("Buda"), Railway Exchange bldg, Chicago, Ill.**
Electric Traction Supply Co. ("Braun"), St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
**Hobart-Allfree Co. ("Newton"), 84 Van Buren, Chicago, Ill.**
Johnson Wrecking Frog Co., Cleveland, O.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Railway Appliances Co. (Fewlings), Old Colony bldg, Chicago, Ill.
Sargent-Hollingshead Co. ("Sargent Rerailer"), Fisher bldg., Chicago, Ill.
Standard Supply & Equipment Co., 1710 Market, Phila., Pa.
Tilden, B. E. & Co., Monadnock blk, Chicago, Ill.
Traction Equipment Co. ("Aldon"), 72 Grand av, Brooklyn, N. Y.
U. S. Metal & Mfg. Co. ("Perfect" Pressed Steel & "Victor" Cast Steel), 165 Broadway, New York

## 9540—Replacers (Incandescent Lamp)
McGill Mfg. Co. ("Bates"), Valparaiso, Ind.
Matthews, W. N. & Bro. ("Easy"), St. Louis, Mo.
**MORSE, FRANK W. ("Handy"), 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)

## 9541—Reservoirs (Air Brake, Etc.)
**Avery Stamping Co. ("Never Break"), Cleveland, O.**
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**PRESSED STEEL TANK CO., Milwaukee, Wis.** (See adv. index, end of book)

## 9542— Resistance Blocks
**DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 9543— Resistance Grids
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 9544—Resistance Rods & Carbons
**DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 9545— Resistance Units
**CUTLER HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Simplex Electric Heating Co., Boston, Mass.
Ward, Leonard, El. Co., Bronxville, N. Y.
Wirt Electric Specialty Co. ("Di-El-Ite"), Armat & Lena, Phila., Pa.

## 9546—Resistances (Standard)
**CUTLER-HAMMER MFG. CO. (Arc Lamp), Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. CO.,** Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 9547— Resistors (Carbon)
National Carbon Co. (Such as Strips, Rods, Discs, etc.), Cleveland, O.

## 9548— Respirators
Chicago Eye Shield Co. ("Chicago"), 134 S Clinton, Chicago, Ill.
**Cover, H. S. (Metal or Rubber), South Bend Ind**
Diamond Rubber Co. (Rubber), Akron, O.
Elmer, H. N., Monadnock blk, Chicago, Ill.
**Hayward, S. F. & Co., 39 Park pl, New York**

## 9549— Rests (Pipe)
**Grabler Mfg. Co., Cleveland, O.**

## 9550— Retainers (Ball)
Star Ball Retainer Co., Lancaster, Pa.

## 9551—Retarders (Railroad Car)
Fairmount Mining Mach'y Co., Fairmount, W. Va.

## 9552— Retorts (Cast Iron)
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Love Bros. (Inc.), Aurora, Ill.
**MacKINNON BOILER & MACHINE Co., Bay City, Mich.** (See adv. index, end of book)

## 9553— Retorts (Chemical)
**Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.**
Didier-March Co. (Stoneware), 30 Church, New York
Sittig, J. W. (Porcelain Ware), 5 Beekman, New York
Stuart & Peterson Co. (Cast Iron), Burlington, N. J.
United States Stoneware Co. (Glazed Stoneware), Akron, Ohio

## 9554— Retorts (Gas)
**AMERICAN REFRACTORIES CO.** (Silica), 125 Clark, Chicago, Ill. (See adv. index, end of book)
**Baltimore Retort & Fire Brick Co., Nicholson, c. Hull, Locust Point, Baltimore, Md.**
Bartley, Jonathan Crucible Co., Trenton, N. J.
**Borgner, Cyrus Co., 23d ab Race, Phila., Pa.**
**Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.**
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Chicago Retort & Fire Brick Co., 115 Adams, Chicago, Ill.
Didier-March Co., 30 Church, New York
**Fiske & Company (Inc.), 25 Arch. Boston, Mass., & Flat Iron bldg, New York**
**Gardner, Jas., Jr. Co., Lockport Station, Pa.**
Gas Machinery Co., Cleveland, O.
Gautier, J. H. Co., Jersey City, N. J.
**HARBISON-WALKER REFRACTORIES Co. ("H. W. Ricon," High Silica for Coal Gas Benches & Water Gas Plants, etc.; Also Fire Clay Shapes for Regenerators, Fixers, Carburetors & Checkers), Farmers' Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)
Improved Equipment Co., 60 Wall, New York
**KREISCHER BRICK MFG. CO., 119 E 23d New York.**; Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
Laclede-Christy Clay Prod. Co., St. Louis, Mo.
Louisville Fire Brick Works, Highland Park, Louisville, Ky.
**MAURER, HENRY & SON, 420 E 23d, New York; Penna. bldg, Phila., Pa.**; Works: Maurer, N. J. (See adv. Front Inside Cover)
**MISSISSIPPI GLASS CO., 115 Broadway, New York.** (See adv. index & branch offices, end of book)
Parker-Russell Mining & Mfg. Co., St. Louis, Mo.
Phila. Fire Brick Co., 2306 Vine, Phila., Pa.
St. Louis Vitrified & Fire Brick Co., St. Louis, Mo.

## 9555—Retorts (Gold & Silver Melting)
Power & Mining Machinery Co., Cudahy, Wis.

## 9556— Retorts (Platinum)
Bishop, J. & Co., Malvern, Pa.

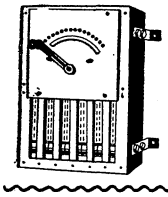
## Revolver Mfrs.
(See Rifles, Guns, Etc.)

When writing to firms whose names appear in this book please mention
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## 9557— Rheostats

American Electric Fuse Co. ("Allen-Bradley" Motor Starting & Controlling & Battery charging), Muskegon, Mich.
Badt, F. B. & Co. (Mfrs.' Agts.), Monadnock blk, Chicago, Ill.
Benton, Thos. P. & Son, La Crosse, Wis.
Bernard, E. G. Co., Troy, N. Y.
Cushman Electric Co. (Compound Starting & Regulating), Concord, N. H.
Cutler Electrical & Mfg, Co., 1112 Sansom, Phila., Pa.
**CUTLER-HAMMER MFG. CO. (For all Purposes), Milwaukee, Wis. (See adv. index, end of book)**



Rheostats for motor starting and for charging storage and ignition batteries. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

Darrin, D. H. Co. ("The Whittingham"), 126 Liberty, New York
**du PONT, E. I. de NEMOURS POWder Co. ("Du Pont"), Wilmington, Del. (See adv. index & branch offices, end of book)**
**ELECTRIC CONTROLLER & MFG. CO., Cleveland, O. (See adv. index & branch offices, end of book)**
Esterline Co., Lafayette, Ind.
**Federal Electric Co. (Automatic Motor Starting, for Elevator and General Service), North Girard, Pa.**
**Fort Wayne Electric Works (Motor Sterling), Fort Wayne, Ind.**
**GENERAL ELECTRIC CO. (for Generators, Motors & Projectors). Schenectady, N. Y. (See adv. index & branch offices, end of book)**
International Instrument Co. (Water), 23 Church, Cambridge, Mass.
Jenney Electric Mfg. Co., Anderson, Ind.
Lincoln Electric Co., Cleveland, O.
McIntosh Battery & Optical Co. (Cautery, etc.), 225 E Washington, Chicago, Ill.
Monitor Mfg. Co. (Automatic Motor Starting), Baltimore, Md.
Muir, Thos. & Son, Union Trust bldg, Detroit, Mich.
Northern Engineering Works, 120 Liberty, New York
**OTIS ELEVATOR CO. (Automatic), 17 Battery pl., New York. (See adv. index & branch offices, end of book)**
**PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)**
Simplex Electric Heating Co., Boston, Mass.
Ward, Leonard Electric Co. (Plating, etc.), Bronxville, N. Y.
**WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)**
Wirt Electric Specialty Co., Armat & Lena, Phila., Pa.

## 9558—Rheostats (Battery Charging)

American Electric Fuse Co., Muskegon, Mich.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)**
**GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)**

## 9559—Rheostats (Controlling)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)**
**GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)**
**WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)**

## 9560— Rheostats (Field)

**CUTTER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)**
**GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)**
**WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)**

## 9561—Ribbon (Copper, German Silver, Nickel Steel & Nickel Copper)

Electrical Alloy Co., Morristown, N. J.

## 9561a—Ribbon Cutting Machines

**CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)**

## 9562—Rice Shoes (Brewers')

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

## Rickerts (Hay)

(See Rakes, Sweep, Etc.)

## 9563— Riddles (Foundry)

(See also Riddles & Sieves)

Berkshire Mfg. Co. ("Berkshire" Rotary), Cleveland, Ohio
Buffalo Wire Works Co., Buffalo, N. Y.
Combined Foundry Supply Co. (J. B. Kingsland & Co., Propt'r), Buffalo, N. Y.
Dean, Hy. E. & Co., Worcester, Mass.
Stevens, Frederic B., Detroit, Mich.
**TAYLOR & DEAN, Penn av. & 25th, Pittsburg, Pa. (See adv. index, end of book)**
**TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index & branch offices, end of book)**
U. S. Chaplet & Supply Co., 140 Cedar, New York
**WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)**

## 9563a— Riddles (Miners')

**TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index & branch offices, end of book)**

## 9564—Riddles (Revolving Dumping)

Hanna Engineering Works (Motor Driven for Foundry Use, etc.), 2059 Elston av, Chicago, Ill.

## 9565— Riddles & Sieves

Brand, S. H. & Co. (Nickel Plate), 612 W Monroe, Chicago, Ill.
Buffalo Wire Works Co., Buffalo, N. Y.
**DARBY, EDWARD & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)**
Dufur & Co., 311 N Howard, Baltimore, Md.
Estey Bros. Co., Diamond & Meserole av, Brooklyn, N. Y.
**ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)**
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Hanna Engineering Works, 2059 Elston av, Chicago, Ill.
**HOWARD & MORSE, 46 Fulton, New York. (See adv. index, end of book)**
Ludlow-Saylor Wire Co., St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
Morse & Whyte Co., Boston, Mass.
**OSBORN MFG. CO., 5401 Hamilton av, N. E. Cleveland, O. (See adv. index, end of book)**
Phoenix Wire Works, Detroit, Mich.
Seiferlein Wire & Iron Works, Detroit, Mich.
**SMITH, F. P. WIRE & IRON WORKS, Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)**
**TAYLOR & DEAN, Penn av. & 25th, Pittsburg, Pa. (See adv. index, end of book)**
Tristram, Jas. J., Rockville Center, N. Y.
**TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index & branch offices, end of book)**
Wickwire Bros. (Coal & Flour Sieves, etc.), Cortland, N. Y.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)**
**WRIGHT WIRE CO. (Steel, Brass, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)**

## 9566—Ridge Roll (Plain or Corrugated)

**BERGER MFG. CO. (Also Ornamental), Canton, O. (See adv. index & branch offices, end of book)**
**BURTON, W. J. CO., 161 W. Congress, Detroit, Mich. (See adv. index, end of book)**
**CANTON MFG. CO., Canton, O. (See adv. index, end of book)**
**GOFF, HORNER & CO., Ltd. (Iron, Flashing, Louvres). Offices: Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)**
Kanneberg Roofing & Ceiling Co., Canton, O.
Newport Rolling Mill Co., Newport, Ky.
Reeves Mfg. Co., Canal Dover, O.
Thomas Steel Co., Niles, O.
Tiffin Art Metal Co., Tiffin, O.

## 9566a—Ridglings (Globe Ventilated)

**GLOBE VENTILATOR CO. (Globe Ventilated Ridging), Troy, N. Y. (See adv. index, end of book)**

## 9567—Ridgings (Ornamental Iron & Steel)

**CANTON MFG. CO., Canton, O. (See adv. index, end of book)**

## 9568—Rifle Range Equipment

Finigan Zabriskie Co. (Target Carriers), Paterson, N. J.

## 9569— Rifles (Air)

American Tool Works ("Sterling"), St. Joseph, Mich.
Benjamin Air Rifle & Mfg. Co., St. Louis, Mo.
Daisy Mfg. Co. ("Daisy" and "Sentenal"), Plymouth, Mich.
Hellprin Mfg. Co. ("Columbia"), 1429 N 21st, Phila., Pa.
Markham Air Rifle Co., Plymouth, Mich.
Quackenbush, H. M., Herkimer, N. Y.

## 9570— Rifles, Guns, Etc.

**Baker Gun & Forging Co., Batavia, N. Y.**
**Colt's Patent Fire Arms Mfg. Co., Hartford, Conn.**
**Crescent Fire Arms Co. (Single & Double Barrel Shot Guns), Norwich, Conn.**
Davis, N. R. & Sons (Shot Guns), Assonet, Mass.
**Fox, A. H. Gun Co. (Guns), 4696 N 18th, Phila., Pa.**
Hamilton, C. J. & Son Mfg. Co. (22 Powder Guns), Plymouth, Mich.
**Harrington & Richards Arms Co. (Guns & Pistols), Worcester, Mass.**
**Hopkins & Allen Arms Co. (Revolvers, Rifles & Shot Guns), Norwich, Conn.**
**Hunter Arms Co. (Hammerless & Hammer Breech Loading Guns), Fulton, N. Y.**
Ithaca Gun Co. (Hammer & Hammerless Guns), Ithaca, N. Y.
**Johnson's, Iver Arms & Cycle Co. (Single Shot Guns & Revolvers, etc.), Fitchburg, Mass.**
**Lefever Arms Co. (Automatic Hammerless Guns), Syracuse, N. Y.**
**Marlin Fire Arms Co. (Repeating Rifles & Shot Guns), New Haven, Conn.**
**Parker Bros. (Shot Guns), Meriden, Conn.**
**Meriden Fire Arms Co. ("Aubrey" Shot Guns, Rifles & Revolvers), Meriden, Conn.**
**Remington Arms Co., Ilion, N. Y.**
**Savage Arms Co., Utica, N. Y.**
**Shattuck, C. S. (Hammerless Guns, etc.), Hatfield, Mass.**
**Smith, Otis A. (Revolvers), Rockfall, Conn.**
**Smith & Wesson (Revolvers), Springfield, Mass**
**Standard Arms Co. ("Standard" Self Operating Hammerless & Gas Operated Hammerless Rifles), Wilmington, Del.**
**Stevens, J. Arms & Tool Co. (Rifles, Pistols, Shot Guns, etc.), Chicopee Falls, Mass.**
Union Arms Co., Toledo, O.
United States Rapid Fire Gun & Power Co. (Navy & Fortification Guns, with Ammunition for Same), Derby, Conn.
Winchester Repeating Arms Co., New Haven, Conn.

## 9571— Rims (Automobile)

**American Tube & Stamping Co. (Cylinder, etc.), Bridgeport, Conn.**
Booth Demountable Rim Co., Cleveland, O.
**Bryant Steel Wheel & Rim Co. (Steel), Columbus, O.**

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G. & J. Tire Co. ("G. & J."), Indianapolis, Ind.
Harburg Tire Co. ("Harburg"), 232 W. 58th, New York
Jamesville Mfg. Co. (Steel), Jamesville, N. Y.
K. & C. Mg. Co. (Wood), Henniker, N. H.
Michelin Tire Co. (Clincher & Quick Detachable Types, also Demountable Rims with Inflated Tires Complete), Milltown, N. J.
Midgley Mfg. Co., Dublin av, Columbus, O.
Rasteter, Louis & Son (Wood), Fort Wayne, Ind.
Republic Rubber Co. (Detachable), Youngstown, O.
Smith, A. O. Company (Steel), Milwaukee, Wis.
Standard Universal Rim Co., Columbus, O.
Standard Welding Co. (Steel "V"), Cleveland, O.
Tucker Woodwork Co. (Wood), Sidney, O.
Weston-Mott Co., Flint, Mich.

## 9572– Rims (Bicycle)

Lobdell & Churchill Mfg. Co. (Wood), Onaway, Mich.

## 9573– Rims (Mirror)

National Sheet Metal Co., Peru, Ill.

## 9574– Rims (Wood)

American Wood Rim Co., Onaway, Mich.

## 9575–Rims & Rings (Pan Grinder))

Railway Steel Spring Co. ("Muller" Weldless Forged & Rolled Steel), 30 Church, New York

## 9576– Ringers (Hog)

Blair, E., Bucyrus, O.
Decker Mfg. Co. ("Hill's"), Keokuk, Iowa
Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.
Smith, F. P. & Co. ("Hill," "Blair"), Sharon Hill, Pa.
Stearns, E. C. & Co., Syracuse, N. Y.

## 9576a– Rings (Aerial)

STAR EXPANSION BOLT CO. ("Sebco"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 9577– Rings (Band)

Grabler Mfg. Co., Cleveland, O.

## 9578– Rings (Beetle)

Columbus Anvil & Forging Co., Columbus, O.
Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.
Martin, Sam'l, 81 Adams, Brooklyn, N. Y.
New Castle Forge & Bolt Co., New Castle, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Sidney Hollowware Co., Sidney, O.
Standard Welding Co., Cleveland, O.

## 9579–Rings (Boiler Bracket)

Desper, H. A. Mfg. Co., Worcester, Mass.

## 9580– Rings (Box)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

## 9581– Rings (Brass)

American Ring Co., Waterbury, Conn.
Grammes, L. F. & Sons (Plain & Screw), Allentown, Pa.
Hendryx, Andrew B. Co., New Haven, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

## 9582– Rings (Bridle)

DIAMOND EXPANSION BOLT CO. ("Standard" & "Dix"). 90 West, New Work. (See adv. index & branch offices, end of book)
STAR EXPANSION BOLT CO. ("Star", also "Star" Corner Brace Bridle Rings), 147 Cedar, New York. (See adv. index & branch offices, end of book)
STEWARD & ROMAINE MFG. CO., 124 N 6th, Phila., Pa. (See adv. index, end of book)

## 9583–Rings (Carbon Packing)

National Carbon Co. (For Steam Turbines, etc.), Cleveland, O.

## 9584– Rings (Chemical)

Laclede-Christy Clay Products Co., St. Louis, Mo.
Weeks, A. J., Akron, Ohio.

## 9585– Rings (Clinch)

Belle City Malleable Iron Co., Racine, Wis.
Columbus Bolt Works, Columbus, Ohio
Falls Mfg. Co., San Francisco, Cal.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.
Malleable Iron Fittings Co., Branford, Conn.
Rhode Island Tool Co., Providence, R. I.
Wilcox, Crittenden & Co., (Wrought & Malleable), Middletown, Conn.

## 9586– Rings (Curtain)

American Ring Co., Waterbury, Conn.
Hobbs Mfg. Co., Worcester, Mass.
Judd, H. L. Co., 87 Chambers, New York
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

## 9587–Rings (Electric Lamp Socket)

Dickinson Mfg. Co., Springfield, Mass.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
GOODRICH, B. F. CO. (Rubber), Akron, O. (See adv. index & branch offices, end of book)
NEW YORK RUBBER CO. (Rubber), Reade & Church, New York. (See adv. index, end of book)
PENNSYLVANIA RUBBER CO. (Rubber), Jeannette, Pa. (See adv. index & branch offices, end of book)

## 9588– Rings (Evaporator)

GOODRICH, B. F. CO. (For Beet Sugar Factories), Akron, O. (See adv. index & branch offices, end of book)
NEW YORK RUBBER CO., Reade & Church, New York. (See adv. index, end of book)

## 9589– Rings (Flush)

Brass Goods Mfg. Co. (Cast Brass), Brooklyn, N. Y.
Peck, Stow & Wilcox Co. (Cast Brass), Southington, Conn.
Reading Hardware Co. (Cast Brass), Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co. (Cast Brass & Bronze), New Haven, Conn.
Stover Mfg. Co. (Brass for Cabinets, etc.), Freeport, Ill.

## Rings (Fruit Jar)

(See Rubbers, Fruit Jar)

## 9590–Rings (Furnace Casing)

XXth Century Heating & Ventilating Co. Akron, O.
Walworth Run Foundry Co. (Steel), Cleveland, O.

## 9591– Rings (Grommet)

Wilcox-Crittenden & Co. (Malleable Iron Galvanized), Middletown, Conn.

## 9592–Rings (Harness, Bone)

Kyoto Mfg. & Trading Co., 532 B'way, New York
Randolph, Wm. C. (Also Ivory), 243 Arch, Phila., Pa.

## 9593–Rings (Harness, Iron)

Colton Mfg. Co., Montpelier, Vt.
Coverts Saddlery Co., Interlaken, N. Y.
Harvey Forging Co., Racine, Wis.
Hobbs Mfg. Co., Worcester, Mass.
Meeker Foundry Co., Newark, N. J.
North & Judd Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Seneca Chain Co., Kent, Ohio

## 9594–Rings (Harness, Rubber)

American Hard Rubber Co., 9 Mercer, New York
Duranoid Mfg. Co., Newark, N. J.
Rubber & Celluloid Harness Trimming Co., Newark, N. J.

## 9595– Rings (Hinge)

Grabler Mfg. Co. (Extension, etc.), Cleveland, O.

## 9596– Rings (Hitching)

Auer, Jno. Jr. (Wrought), 99 Middleton, Brooklyn, N. Y.
Brewer Bros. (Wrought, Screw, Drill or Lead, etc.), 614 Filbert, Phila., Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.
Hazel-Atlas Glass Co., Wheeling, W. Va.
Heemason & Beckley Mfg. Co., New Britain, Conn.
Jenckes, E. Mfg. Co. (Wrought), Worcester, Mass.
Lanz, Matthew & Sons, Pittsburg, Pa.
National Mfg. Co. (Wrought With Bolt & Nut, etc.), Sterling, Ill.
Peck, Stow & Wilcox Co. (Wrought), Southington, Conn.
Sargent & Co. (Wrought), New Haven, Conn.
Sevett, A. L. Iron Works (Wrought), Medina, N. Y.
Vaughn & Bushnell ("V" & "B" Steel), 2130 Carroll av, Chicago, Ill.
Wire Goods Co. (Wrought), Worcester, Mass.

## 9597– Rings (Hog & Bull)

Blair, E., Bucyrus, O.
Chambers, Bering & Quimlin Co., Decatur, Ill.
Decker Mfg. Co., Keokuk, Ia.
Heesen Bros. & Co., Tecumseh, Mich.
Humason & Beckley Mfg. Co. (Rings & Punches), New Britain, Conn.
Kohler, F. E. & Co., Canton, O.
Morgan Spring Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Pratt, Wm. E. Mfg. Co. ("Hill," "Blair," "Brown," "Major" & "Wolverine"), 91 Lake, Chicago, Ill.
Sargent & Co., New Haven, Conn.
Smith, F. P. & Co. ("Hills", "Blair", Copper & Galvanized, Cast & Malleable Iron), Sharon Hill, Pa.
Smith, Seymour & Son (Bull Only), Oakville, Conn.

## 9598– Rings (Key)

ARCADE MFG. CO. ("De Vore" Double), Freeport, Ill. (See adv. index, end of book)
Billings & Spencer Co. ("Billing's"), Hartford, Conn.
Browne & Dowd Mfg. Co. ("Reliable" Puzzle, Clasp, "Joker"), Meriden, Conn.
Coe Mfg. Co. (Steel Ball Key Rings), 35 Warren, New York
Erie Specialty Co., Erie, Pa.
Graham & Berwin (Imported), 148 Chambers, New York
Morden Mfg. Corporation ("Morden Perfect"), Waterbury, Conn.
NIAGARA FALLS METAL STAMPING Works ("Flexible", "Split Steel"), Niagara Falls, N. Y. (See adv. index, end of book)
Smith & Egge Mfg. Co. (Chain & Ring), Bridgeport, Conn.
Snow & Petrelli Mfg. Co., New Haven, Conn.
Williamson, C. F. Wire Novelty Co., Newark, N. J.

## 9599– Rings (Locker)

Jenckes, E. Mfg. Co., Worcester, Mass.

## 9600–Rings (Marble Polishing)

Royden Marble Machinery Co. ("Royden" Polish Rings), 1 Madison av, New York

## 9601– Rings (Net)

Meisselbach, A. F. & Bro. (Fishing), Newark, N. J.

## 9602– Rings (Open)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

## 9603– Rings (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bissell, F. Co. ("Security"), Toledo, O.
Boston Bolt & Iron Co., Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Lnnz, M. & Sons, 101 S 29th, Pittsburg, Pa.
New England Bolt & Steel Co., Everett, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Piqua Handle & Mfg. Co. (Wood Curtain Pole, etc.), Piqua, O.
Strieby & Foote Co., Newark, N. J.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

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## 9604— Rings (Rubber)

(See also Rubber Manufacturers, Mechanical)

Acme Rubber Mfg. Co. (Jar), Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire**, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Combination Rubber & Belting Co., Bloomfield,
Continental Rubber Works, Erie, Pa. **N. J.**
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.) (For All Purposes), **Detroit, Mich.**
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO.** (For Unions, Pumps, Lubricator, Gauge Glass, Packing, etc.), Jeanette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Wilkie Rubber Mfg. Co., **Saugus, Mass.**

## 9605— Rings (Screw)

Brooks, M. S. & Sons (Brass), Chester, Conn.
American Ring Co., Waterbury, Conn.
Grammes, L. F. & Sons, Allentown, Pa.
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 9606—Rings (Shower Bath)

Kelly, Thos. & Bros. ("Kelly"), 422 S 45th ct, Chicago, Ill.

## 9607— Rings (Shutter)

Brooks, M. S. & Sons, Chester, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Jenckes, E. Mfg. Co., Worcester, Mass.

## 9608— Rings (Socket)

(See Rings, Electric Lamp Socket)

## 9609— Rings (Steel)

Chrome Steel Works (Rolled Chrome Steel), Chrome, N. J.
Dunne, Geo. W. & Co. (Solid), 1943 Carroll av, Chicago, Ill.
Hobbs Mfg. Co., Worcester, Mass.
Inter-Ocean Steel Co., Railway Exchange, Chicago, Ill.
Millersburg Fifth Wheel Co. (Iron & Steel Rings, Bands, Onals, Flanges, etc.), Millersburg, Pa.
Railway Steel Spring Co. (Heavy), 30 Church, New York
Seneca Chain Co. (Wrought), Kent, O.
Standard Steel Works Co. (Made of Fire Steel), Harrison bldg, Phila., Pa.
Tioga Steel & Iron Co. (Forged), 52d & Gray's av, Phila., Pa.
Sundberg, Kropp Co. (Solid Forged), 2510 W 21st, Chicago, Ill.

## 9610—Rings (Steel Piston)

Jorden, R. H. (For Steam Hammers, Engines, etc.), Millvale, Pa.

## 9611— Rings (Tool Post)

Keystone Drop Forge Works, Chester, Pa.
Page-Storms Drop Forge Co., Chicopee, Mass.
Williams, J. H. & Co., 150 Hamilton, Brooklyn, N. Y.
Wyman & Gordon Co., Worcester, Mass.

## 9612— Rings (Trap Door)

Loetcher-Ryan Mfg. Co., Dubuque, Ia.
Peck, Stow & Wilcox Co. (Flush), Southington, Conn.
Penn Hardware Co., Reading, Pa.
**Reading Hardware Co., Reading, Pa.**
Sargent & Co., New Haven, Conn.
**Stearns, E. C. & Co., Syracuse, N. Y.**
Stover Mfg. Co., Freeport, Ill.

## 9613— Rings (Trapeze)

Wilcox, Crittenden & Co., Middletown, Conn.

## 9613a—Rings (Vest & Split Button)

**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 9614— Rings (Welded)

Grabler Mfg. Co., Cleveland, O.

## 9615— Rings (Weldless)

Crucible Steel Forge Co., Cleveland, O.
Dyson, Jos. & Sons, Cleveland, O.
Hay-Budden Mfg. Co., 254 Henry, Brooklyn, N. Y.
Horsburgh Forging Co., Cleveland, O.
Pennsylvania Forge Co., Phila., Pa.
Railway Steel Spring Co. (Forged & Rolled Steel), 30 Church, New York
Standard Steel Works Co. (For Crushing Machinery, etc.), Harrison bldg., Phila., Pa.

## 9616— Rings (Wire)

Grammes, L. F. & Sons, Allentown, Pa.
North & Judd Mfg. Co. (Steel "Anchor"), New Britain, Conn).
**Parker Wire Goods Co., Worcester, Mass.**
Wire Goods Co., Worcester, Mass.

## 9617— Rings with Staples

Grammes, L. F. & Sons, Allentown, Pa.
Humason & Beckley Mfg. Co. (Wrought), New Britain, Conn.

## 9618— Rings (Wood)

Piqua Handle & Mfg. Co., Piqua, O.

## 9619— Rivet Busters

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

## 9620— Rivet Mfrs.

(Under this Heading see Sub-classifications)

Ames, W. & Co., Jersey City, N. J.
American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Iron & Steel Mfg. Co., Lebanon, Pa.
American Rivet Co., New Haven, Conn.
American Screw Co., Providence, R. I.
Atlas Tack Co., Fairhaven, Mass.
Baker & Co. (Platinum), Newark, N. J.
Ballard Drop Forge Co., Ballard, Seattle, Wash.
Berry Bros., Columbus, O.
Blake & Johnson Co. (Iron, Steel, Brass & Copper), Waterbury, Conn.
Boston Bolt & Iron Co.; 40 Farnsworth, Boston, Mass.
Burden Iron Co., Troy, N. Y.
Champion Rivet Co., Cleveland, O.
Clark Bros. Bolt Co., Milldale, Conn.
Cobb & Drew, Plymouth, Mass.
Coe Brass Mfg. Co., Torrington, Conn.
Columbus Bolt Works, Columbus, O.
Equipoise Rivet Co. (Small), Waterbury, Conn.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Fort Pitt Forge Co., Pittsburg, Pa.
Garland Nut & Rivet Co., Pittsburg, Pa.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Greenlie, Wyatt & Co., 499 Water, New York
Hartley, Daniel, Nutley, N. J.
Hassall, Jno. (Small), 45 Lafayette, New York
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
**HUNGERFORD, U. T. BRASS & COPper Co.** (Mfrs. Agts.), 497 Pearl, New York
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanz, Mathew, & Sons, Pittsburg, Pa.
Linton Rolling Mill Co., Linton, Ind.
Michigan Bolt & Nut Works, Detroit, Mich.
Milwaukee Tack Co. (Small), Milwaukee, Wis.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Screw & Tack Co., Cleveland, O.
Newark Rivet Works, Newark, N. J.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
O'Brien, John Boiler Works Co., St. Louis, Mo.
Old Dominion Iron & Nail Wks. Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Philips, Townsend & Co., N 4th & Glenwood av, Philadelphia, Pa.
Pittsburg Rivet Co., 38th & R. R., Pittsburg, Pa.
**Pittsburg Screw & Bolt Co., Pittsburg, Pa.**
Plymouth Mills, Plymouth, Mass.
Progressive Mfg. Co., Torrington, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.
Richards, T. C. Hardware Co., Winsted, Conn.
Rome Brass & Copper Co. (Brass & Copper), Rome, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
Scovill Mfg. Co. (Brass, etc.), Waterbury, Conn.
Screw Machine Products Corporation, Providence, R. I.
Sessions, J. H. & Son, Bristol, Conn.
Severence, S. Mfg. Co., Glassport, Pa.
Standard Rivet Co., Boston, Mass.
**Steel Car Forge Co., Pittsburg, Pa.**
Taunton Rivet Works, Taunton, Mass.
Thomson, Judson L. Mfg. Co., Waltham, Mass.
Tower Mfg. Co., Cincinnati, O.
Townsend, G. G., Winchendon, Mass.
Tubular Rivet & Stud Co., Boston, Mass.
Ulster Iron Works (Inc.), Dover, N. J.
Upham, V. B. & Bro. (Aluminum, Brass, Copper, Iron, etc.), 30 Hudson av, Brooklyn, N. Y.
Upson Nut Co., Unionville, Conn., & Cleveland, O.
Waterbury Brass Co. (Brass, etc.), Waterbury, Conn.
**YOUNGSTOWN CAR MFG. CO.**, Youngstown, O.

## 9621— Rivet Sets

**BERNZ, OTTO (Plumbers'), 21 Ashland av**, Newark, N. J. (See adv. index, end of book)
Bradley's, G. W. Sons, Inc. (Coopers), Westport, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
**CLEVELAND PUNCH & SHEAR WORKS** Co. (Hand), Cleveland, O. (See adv. index, end of book)
Cleveland Steel Tool Co. (Compression, Hand, Lever, Pneumatic, Tinners), 1144 W 3d, Cleveland, O.
Drew, C. & Co. (Coopers), Kingston, Mass.
Eyelet Tool Co., Boston, Mass.
Irvington Mfg. Co., Irvington, N. J.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J. **N. J.**
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Lowentraut, P. Mfg. Co. ("W. S."), Newark, N. J.
Marchant, Geo. F. ("New Process" Air Hammer), Elizabeth & Lake, Chicago, Ill.
**NIAGARA MACHINE & TOOL WORKS**, Buffalo, N. Y. (See adv. index, end of book)
Osborne, C. S. & Co. (Harness Makers, Tinners, etc.), Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Sayre, L. A. & Co., Newark, N. J.
**SMITH & HEMENWAY CO.** ("Red Devil" Drop Forged), 150 Chambers, New York. (See adv. index, end of book)
Springfield Machine Screw Co. ("Diamond"), Chicopee, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Vaughn & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
White, L. & I. J. Co. (Cooper's), **Buffalo, N. Y.**

## 9622—Riveters (Belting & Harness Repairing, Etc.)

**ARCADE MFG. CO. ("Arcade")**, Freeport, Ill. (See adv. index, end of book)

## Riveters (Hand Power)

(See Riveting Machines, Hand)

## Riveters (Pneumatic Compression)

(See Pneumatic Compressing Riveters)

## Riveting Machines

(See Machinery; also Pneumatic Riveters)

## 9623— Rivets (Aluminum)

Aluminum Co. of America, Pittsburg, Pa., & 99 John, New York
Blake & Johnson Co., Waterbury, Conn.
Hassall, Jno., Inc. (To Order), Clay & Oakland, Brooklyn, N. Y.
Upham, V. B. & Bro., 30 Hudson av, Brooklyn, N. Y.

## 9624— Rivets (Barrel)

Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Reading Screw Co., Norristown, Pa.
Townsend, G. G., Winchendon, Mass.

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## 9625—Rivets (Belt & Hose)

**American Screw Co. (Rivets & Burrs), Providence, R. I.**
**Atlas Tack Co. (Copper), Fairhaven, Mass.**
**Bridgeport Brass Co., Bridgeport, Conn.**
**Coe Brass Mfg. Co., Torrington, Conn.**
**Equipoise Rivet Co., Waterbury, Conn.**
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**
**Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.**
Hassall, Jno., Inc. (T Order), Clay & Oakland, Brooklyn, N. Y.
**HUNGERFORD, U. T. BRASS & COPper Co. (Copper), 497 Pearl, New York**
**Phillips, Townsend & Co., 4-8 Glenwood av, Phila., Pa.**
**Plume & Atwood Mfg. Co., Waterbury, Conn.**
**Reed & Prince Mfg. Co., Worcester, Mass.**
**Rome Brass & Copper Co., Rome, N. Y.**
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
Standard Rivet Co. (& for Cloth & Other Fabrics), 41 Lincoln, Boston, Mass.
Stimpson, Edwin B. & Son, 31 Spruce, New York
Tower Mfg. Co. (Tinned & Coppered Iron Burrs & Rivets), Cincinnati, O.

## 9626— Rivets (Bifurcated)

Equipoise Rivet Mfg. Co., Waterbury, Conn.
Metallic Specialty Mfg. Co., 1616 N 21st, Phila., Pa.
Standard Rivet Co., Boston, Mass.
Taunton Rivet Works, Taunton, Mass.
Thomson, Judson L. Mfg. Co., Waltham, Mass.
Tubular Rivet & Stud Co., Boston, Mass.

## 9627—Rivets (Boiler & Tank)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Atlas Tack Co., Fairhaven, Mass.
Bassett-Presley Co. ("Crown" Steel), Cleveland, O.
Boston Bolt & Iron Co., Boston, Mass.
**Burden Iron Co. (Iron), Troy, N. Y.**
**Champion Rivet Co., Cleveland, O.**
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Fort Pitt Forge Co., Pittsburg, Pa.
**Garland Nut & Rivet Co., Pittsburg, Pa.**
**Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.**
**Jones & Laughlin Steel Co., Pittsburg, Pa.**
**Kansas City Bolt & Nut Co., Kansas City, Mo.**
**Michigan Bolt & Nut Works, Detroit, Mich.**
**Moran Bolt & Nut Mfg. Co., St. Louis, Mo.**
**New Castle Forge & Bolt Co., New Castle, Pa.**
New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
**Pittsburgh Rivet Co., 38th & R R, Pittsburg, Pa.**
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
**Rockford Bolt Works, Rockford, Ill.**
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Severence, S., Mfg. Co., Glassport, Pa.
Steel Car Forge Co. ("Xcelsior"), Pittsburg,
Ulster Iron Works (Inc.), Dover, N. J. Pa.
**Upson Nut Co., Unionville, Conn., & Cleveland, O.**

## 9628—Rivets (Brass & Copper)

American Brass Co., Waterbury, Conn.
**Atlas Tack Co. (Rivets & Burrs), Fairhaven Mass.**
Benedict & Burnham Mfg. Co. (Brass), Waterbury, Conn.
**Blake & Johnson Co., Waterbury, Conn.**
Bridgeport Brass Co. ("Crown"), Bridgeport, Conn.
**Clendenin Bros. (Copper Rivets & Burrs), Baltimore, Md.**
**Cobb & Drew, Plymouth, Mass.**
**Coe Brass Mfg. Co., Torrington, Conn.**
Connecticut Mfg. Co., Waterbury, Conn.
Elm City Brass & Rivet Co. (Rivets & Burrs), Plainville, Conn.
Equipoise Rivet Co. (Small), Waterbury, Conn.
Falls Clutch & Machinery Co., Cuyahoga Falls.
General Mfg. Co., Waterbury, Conn. Ohio
Hassall, John (Small to Order Only), 45 Lafayette, New York
Hendricks Bros., 49 Cliff, New York
**HUNGERFORD, U. T. BRASS & COPper Co. ("Star," All Sizes & Styles), 497 Pearl, New York**
Hussey, C. G. & Co. (Copper Only), Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.),** (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
**Newark Rivet Works, Newark, N. J.**
Plume & Atwood Mfg. Co. (Copper Trunk, Braziers', Brass Jacket, etc.), Waterbury, Conn.
**Progressive Mfg. Co., Torrington, Conn.**
**Reed & Prince Mfg. Co., Worcester, Mass.**
**Rome Brass & Copper Co., Rome, N. Y.**
**Russell & Erwin Mfg. Co. (Brass, etc.), New Britain, Conn., & 96 Lafayette, New York**
Scovill Mfg. Co. (Brass Only), Waterbury, Conn.
**Taunton Rivet Works (Copper Rivets & Burrs)** Taunton, Mass.
**Thomson, Judson L. Mfg. Co. (Coppered Slotted Clinch), Waltham, Mass.**
Townsend, C. C. & E. P. Co., Brighton, Pa.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)**
Upham V. B. & Bro., c John & Hudson av, Brooklyn, N. Y.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Brass Goods Corpn. (Brass Only), Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.

## 9629— Rivets (Braziers')

Ansonia Brass & Copper Co., Ansonia, Conn.
Clendennin Bros., Baltimore, Md.
Hendricks Bros., 49 Cliff, New York
Hungerford, W. I. Brass & Copper Co., 497 Pearl, New York
Plume & Atwood Mfg. Co., Waterbury, Conn.
Scoville Mfg. Co., Waterbury, Conn.

## 9630—Rivets (Bridge & Structural)

**American Iron & Steel Mfg. Co., Lebanon, Pa.**
**Bassett-Presley Co. ("Crown" Steel), Cleveland, O.**
Cambria Steel Co., Johntown, Pa.
**Champion Rivet Co., Cleveland, O.**
**Columbus Bolt Works, Columbus, O.**
**Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.**
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**
**Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.**
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Mathew & Sons, Pittsburg, Pa.
**Michigan Bolt & Nut Works, Detroit, Mich.**
**Moran Bolt & Nut Mfg. Co., St. Louis, Mo.**
**New Castle Forge & Bolt Co., New Castle, Pa.**
New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
**Old Dominion Iron & Nail W'ks Co., Richmond,**
**Oliver Iron Steel Co., Pittsburg, Pa. Va.**
**Pittsburg Forge & Iron Co. Pittsburg, Pa.**
Pittsburgh Rivet Co., Pittsburg, Pa.
**Pittsburg Screw & Bolt Co., Pittsburg, Pa.**
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**Scranton Bolt & Nut Co., Scranton, Pa.**
Severence, S. Mfg. Co., Glassport, Pa.
**Steel Car Forge Co., Pittsburg, Pa.**
**Townsend, C. C. & E. P. Co., New Brighton,**
Union Forge Co P.ittsburg, Pa. Pa.
Upham, V. B. & Bro. (For Ornamental Work), 30 Hudson av, Brooklyn, N. Y.
**Upson Nut Co., Unionville, Conn., & Cleveland. Ohio**

## 9631— Rivets (Car)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Iron & Steel Mfg. Co., Lebanon Pa.
Columbus Bolt Works, Columbus, O.
Falls Clutch & Machinery Co., Cuyahoga Falls. Ohio
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Button wood, Phila., Pa.
**Kansas City Bolt & Nut Co., Kansas City, Mo.**
**Lamson & Sessions Co., Cleveland, O.**
Lanz, Mathew & Sons. Pittsburg, Pa.
Michigan Bolt & Nut Works. Detroit, Mich.
Moran Bolt & Nut Co., St. Louis Mo.
Oliver Iron & Steel Co., Pittsburg, Pa.
**Pittsburg Rivet Co., 38th & R. R., Pittsburg. Pa.**
Severence, S. Mfg. Co., Glassport, Pa.

## 9632— Rivets (Coopers')

American Screw Co., Providence, R. I.
**ATLAS BOLT & SCREW CO., Marquette, opp. Hamilton av, N E, Cleve-**
Berry Bros., Columbus, O. land, O.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
**Lamson & Sessions Co., Cleveland, O.**
National Screw & Tack Co., Cleveland, O.
**Phillips, Townsend & Co., 4th & Glenwood av, Phila, Pa.**
Reading Screw Co., Norristown, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
Tower Mfg. Co. (Countersunk, etc.), Cincinnati, O.
**Waterbury Brass Goods Corporation, Waterbury, Conn.**

## 9633— Rivets (Draw Bar)

**Illinois Bolt, Nut & Forging Co., 35th & Ashland av., Chicago, Ill.**
Kansas City Bolt & Nut Co., Kansas City, Mo.

## 9634— Rivets (Galvanized)

Kansas City Bolt & Nut Co., Kansas City, Mo.
Keystone Nail Co., Pittsburg, Pa.
**Rockford Bolt Co. (For Corrugated Culverts, etc.), Rockford, Ill.**
Townsend, C. C. & E. P. Co., New Brighton, Pa.

## 9635—Rivets (German Silver)

**Blake & Johnson Co., Waterbury, Conn.**
Hassall, Jno. (To Order Only), 45 Lafayette, New York
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
**Progressive Mfg. Co., Torrington, Conn.**
**Upham, V. B. & Bro., 30 Hudson av, Brooklyn, N. Y.**

## 9636— Rivets (Hame)

American Rivet Co., New Haven, Conn.
American Screw Co., Providence, R. I.
Colton Mfg. Co., Montpelier, Vt.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**
**Reading Screw Co., Norristown, Pa.**
**Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.**
Standard Rivet Co., Boston, Mass.
Thomson, Judson L. Mfg. Co., Waltham, Mass.
Tower Mfg. Co., Cincinnati, O.

## 9637— Rivets (Hinge)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**

## 9638—Rivets (Norway Iron)

Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Hassall & Townsend, 45 Lafayette, New York
**Hoopes & Townsend Co., 1330 Buttonwood, Phila, Pa.**
**Michigan Bolt & Nut Works, Detroit, Mich.**
Newark Rivet Works (Black, Coppered & Tinned), Newark, N. J.
**Reed & Prince Mfg. Co., Worcester, Mass.**
Upson Nut Co., Unionville, Conn., & Cleveland, O.

## 9639—Rivets (Ornamental Steel)

**BRAUN, J. G., 615 S Paulina, Chicago, Ill., & 537 W 35th, New York (See adv. index, end of book)**

## 9640— Rivets (Platinum)

**AMERICAN PLATINUM WORKS, Chestnut st & N J R R av, Newark, N. J. (See adv. index, end of book)**
**Baker Co., Newark, N. J.**
**Croselmire & Ackor Co. (For Spark Coils), 42 Walnut, Newark, N. J.**

## 9641— Rivets (Pronged)

Metallic Specialty Mfg. Co. (Outside Prong), 1616 N 21st, Phila., Pa.
**Standard Rivet Co. (For Fastening Leather, Cloth, etc.), 41 Lincoln, Boston, Mass.**

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## 9642— Rivets (Ship)

(See Rivets, Boiler & Tank)

## 9643— Rivets (Shovel)

**Berry Bros., Columbus, O.**
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**
Reading Screw Co., Norristown, Pa.

## 9644—Rivets (Slotted Clinch)

Thomson, Judson L. Mfg. Co., Waltham, Mass.

## 9645— Rivets (Stove)

Berry Bros., Columbus, O.
Falls Clutch & Machinery Co., Cuyahoga Falls, O.
**Garland Nut & Rivet Co., Pittsburg, Pa.**
**Lamson & Sessions Co., Cleveland, O.**
**Ohio Nut & Bolt Co., Berea, O.**
Reading Screw Co., Norristown, Pa.

## 9646— Rivets (Tinners')

American Screw Co., Providence, R. I.
**ATLAS BOLT & SCREW CO., Marquette, opp. Hamilton av. N E, Cleveland, Ohio**
Atlas Tack Co., Fairhaven, Mass.
**Central Stamping Co., 174 Fulton, New York**
Cobb & Drew (Inc.), Plymouth, Mass.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
**Garland Nut & Rivet Co., Pittsburg, Pa.**
**Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.**
**Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.**
Lamson & Sessions Co., Cleveland, O.
**MERCHANT & EVANS CO. (Inc.)** (Black & Tin), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Milwaukee Tack Co. (Flat Head), Milwaukee, Wis.
National Screw & Tack Co., Cleveland, O.
**Phillips, Townsend & Co., Phila., Pa.**
**Reading Screw Co., Norristown, Pa.**
**Reed & Prince Mfg. Co., Worcester, Mass.**
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.. & Rock Falls, Ill.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**Taunton Rivet Works, Taunton, Mass.**
Tower Mfg. Co., Cincinnati, O.
**Townsend, C. C. & E. P. Co., New Brighton, Pa.**
**Upham, V. B. & Bro., 30 Hudson av, Brooklyn, N. Y.**
**Upson Nut Co., Unionville, Conn., & Cleveland, O.**

## 9647— Rivets (Tire)

Columbus Bolt Works, Columbus, O.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Garland Nut & Rivet Co., Pittsburg, Pa.
Lamson & Sessions Co., Cleveland, O.
Skelly, Thos. P., N 24th c Carlton, Phila., Pa.

## 9648— Rivets (Tubular)

Equipoise Rivet Mfg. Co., Waterbury, Conn.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
Thomson, Judson L. Mfg. Co., Waltham, Mass.
Tubular Rivet & Stud Co., Boston, Mass.

## 9649—Rivets (Wagon Box)

American Screw Co., Providence, R. I.
Berry Bros., Columbus, O.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Meeks, J. Arthur, Muncie, Ind.
Oliver Iron & Steel Co., Pittsburg, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ia.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

## 9650— Rivets (Wire)

Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Reading Screw Co., Norristown, Pa.

## Rivets & Burrs (Brass & Copper)

(See Rivets, Brass & Copper)

## 9651—Road Binders & Preservatives

American Asphaltum & Rubber Co. ("Pioneer"), Harvester bldg, Chicago, Ill.
**Barrett Mfg. Co. ("Tarvia," for Macadam & Gravel Roads), 17 Battery pl, New York**
Central Westernite Co. ("Westernite" Compounds), 279 Dearborn, Chicago, Ill.
Good Roads Improvement Co. ("Asphaltollene" for Macadam & Gravel Roads), First Nat'l Bank bldg, Cincinnati, O.
Gulf Refining Co. ("Asphatoil"), Pittsburg, Pa.
Imperial Road Co. ("Imperial" for Macadam & Gravel Roads), Times bldg, New York
**INDIAN REFINING CO. (For Macadam & Gravel Roads), 17 Battery pl, New York.** (See adv. index & branch offices, end of book)
**Lewis, F. J. Mfg. Co. ("Lewis' Taroid"), 2513 S Robey, Chicago, Ill. Works, Moline, Ill.**
National Refining Co., Cleveland, O.
Robeson Process Co. ("Glutrin"), Au Sable Forks, N. Y.
Solvay Process Co. ("Solvay" Granulated Calcium Chloride), Syracuse, N. Y.
Standard Asphalt & Rubber Co. ("Sarco"), 203 La Salle, Chicago, Ill.
**Standard Oil Co. (Also Emulsifying Road Oils), 26 B'way, New York**
Texas Co. ("Texaco," Macadam Binder, etc.) 17 Battery pl, New York
United Gas & Improvement Co. ("Ugite"), Phila., Pa.
Wadsworth Stone & Paving Co. ("Kentuck" Rock Asphalt for Macadam & Gravel Roads), Pittsburg, Pa.

## 9652— Road Levelers

**Acme Road Machinery Co., Frankfort, N. Y.**
**American Harrow Co., Detroit, Mich.**
**American Road Machine Co., Kennett Square, Pa.**
Austin Mfg. Co., Manhattan bldg, Chicago, Ill., & Harvey, Ill.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Climax Road Machine Co., Marathon, N. Y.
Hancock Iron & Steel Co. ("Harter" Road Scraper & Leveller, Findlay, O.
**Kilbourne & Jacobs Mfg. Co., Columbus, O.**
Ohio Road Machinery Co. ("Ohio"), Oberlin, Ohio
**Sidney Steel Scraper Co. (Tongue Scraper, Leveler & Ditcher), Sidney, O.**

## 9653—Road Machines & Graders

Acme Road Machinery Co. (Reversible), Frankfort, N. Y.
**Adams, J. D. & Co., Indianapolis, Ind.**
**American Road Machine Co., Kennett square,**
Attica Bridge Co., Attica, Ind. **Pa.**
**Austin Mfg. Co., 315 Dearborn, Chicago, Ill., & Harvey, Ill.**
**Bagley Grader Co. (Steam or Electric Power), Tacoma, Wash.**
**Baker Mfg. Co. ("XXth Century" Graders), Fisher bldg., Chicago, Ill.**
**Buffalo Steam Roller Co., Buffalo, N. Y.**
**Champion Road Machine Co., Kennett Square,**
Deere & Co. (Graders), Moline, Ill. **Pa.**
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, enr of book)
**Edwards, C. D., Albert Lea, Minn.**
Galion Iron Works Co. ("Perfection"), Galion, O.
Gillespie, O. H. ("Gillespie" Combined Grader & Drag), Madison, Neb.
Good Roads Machinery Co. ("Climax"), Kennet Square, Pa., & 114 Liberty, New York
Hummel Mfg. Co., Newton, Ia.
**Indiana Road Machine Co. ("Indiana" & "National" Reversible Road Graders), Ft. Wayne, Ind.**
**Kelly-Springfield Road Roller Co., Springfield, Ohio**
**Kilbourne & Jacobs Mfg. Co. (Graders), Columbus, O.**
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**Moore, Joshua, Marseilles, Ill.**
**Ohio Road Machinery Co. ("Ohio," Reversible "Shuart," Land Graders), Oberlin, O.**
Perfection Road Machinery Co., Galion, O.
**Phillip, Rossman, Stockport, N. Y.**
**Port Huron Engine & Thresher Co., Port Huron, Mich.**
**Russell Grader Mfg. Co. ("Simplex Russell" Reversible), Minneapolis, Minn.**
**Smith & Sons Mfg. Co., Lydia & Guinotte av, Kansas City, Mo.**
**Stroud, T. F., & Co. (Elevating Graders), Omaha, Neb.**
Universal Road Machinery Co., Kingston, N. Y.
**Western Wheeled Scraper Co., Aurora, Ill.**
**White City Grader Co. ("Twentieth Century" Grader), White City, Kans.**
Zieg, F. B. Mfg. Co. ("Panama," 2 & 4 Horse), Fredericktown, O.

## 9654—Road Oilers or Distributors

Etnyre, E. D. & Co. ("Etnyre"), Oregon, Ill.
Good Roads Machinery Co., Kennett Square Pa.
Studebaker Corp., South Bend, Ind.
Topping, Howell, 50 Church, New York

## Road Rollers

(See Rollers, Various Kinds)

## 9655— Road Scarifiers

**Buffalo Steam Roller Co., Buffalo, N. Y.**
**Kelly-Springfield Road Roller Co., Springfield, Ohio**
Strain & Sanford Co. ("Torpedo"), 18 W 34th, New York
Universal Road Machinery Co. ("Porcupine"), Kingston, N. Y.

## 9656—Road Scrapers (Drag & Wheel)

Acme Road Machinery Co. (Drag & Wheel), Frankfort, N. Y.
**American Road Machine Co. (Drag & Wheel), Kennett Square, Pa.**
**American Steel Scraper Co. (Drag & Wheel), Attica Bridge Co., Attica, Ind. Sidney, O.**
Austin Mfg. Co. (Drag & Wheel), Manhattan bldg., Chicago, & Harvey, Ill.
**Champlain Agr'l Works (Drag), Champlain, N. Y.**
**DES MOINES BRIDGE & IRON CO.** (Drag), 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**Donaldson Bros. (Drag), Mount Clemens, Mich.**
**FAIRBANKS, MORSE & CO. (Drag Only), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)**
**Fresno Agricultural Works (Drag Scrapers), Fresno, Cal.**
Galion Iron Works Co. ("Universal" Adjustable Road Drag), **Galion, O.**
Gowanda Architectural Works (Drag Only), Gowanda, N. Y.
Good Roads Mach'y Co., Kennett Square, Pa.
**Hancock Iron & Steel Co. ("Harter" Road Scraper & Leveler), Findlay, O.**
Holenbeck Mfg. Co., Holdrege, Neb.
Holt Mfg. Co. (Drag), Stockton, Cal.
**Indiana Road Machine Co. ("Indiana" & "National" Drag & Wheel), Fort Wayne,, Ind.**
**JACKSON MFG. CO. (Drag Only), 50 Church, New York, & Harrisburg, Pa. (See adv. index, end of book)**
**Kalamazoo Railway Supply Co., Kalamazoo, Mich.**
**Kansas City Steel Scraper Co. (Drag & Wheel), Kansas City, Mo.**
Kilbourne & Jacobs Mfg. Co. ("Boss." "Columbus," "Drag"), **Columbus, O.**
Lansing Wheelbarrow Co. (Steel), Lansing, Mich.
**Lehr Agricultural Co. (Drag), Fremont, O.**
**MARSH-CAPRON MFG. CO. ("Haslup" Round Back, Solid Pressed Drag Scraper & "Haslup" Wheeled), 480 Old Colony bldg, Chicago, Ill.** (See adv. index & branch offices, end of book)
**MARSH CO. ("Haslup" Round Back,** Solid Pressed Drag Scraper & "Haslup" Wheeled), 975 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Mechanical Mfg. Co. ("Stubbs" Wheeled), Union Stock Yards, Chicago, Ill.
Russell Grader Mfg. Co., Minneapolis, Minn.
Sidney Steel Scraper Co. ("Haslup's" Drag & Wheel), Sidney, O.
**Smith & Sons Mfg. Co. ("Royal" Drag & Wheel), Kansas City, Mo.**
**Stroud, T. F. & Co., Omaha, Neb.**
**Syracuse Chilled Plow Co., Syracuse, N. Y.**
**Western Wheel Scraper Co. ("Western," "Columbian" Drag & Wheel), Aurora, Ill.**
Wilder-Strong Implement Co. (Drag), Monroe, Mich.

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## 9657—Roasters (Coffee & Peanut)

(See also Coffee, Peanut & Cocoa Bean Roasting Machines)

Abele, Chris., 537 W 50th, New York
Atsatt Bros. ("Acme"), Mattapoisett, Mass.
Bartholomew Co. ("Stunner," "Rival," "Ripper," "Nickel Mint" & "Boss"), Peoria, Ill.
Burns, Jabez & Sons (C.), New York
Crandall & Godley Co. (P.), 157 Franklin, New York
Cretors, C. & Co., W 22nd & S Jefferson, Chicago, Ill.
Deer, A. J. Co. ("Royal"), Hornell, N. Y.
Dunbar & Co. ("Chicago"), 2652 W Lake, Chicago, Ill.
Henneman Coffee Roaster Co., Fitchburg, Mass.
Hilbert Machine Co. (P.), Cincinnati, O.
Howes, S. Co. (C.), Silver Creek, N. Y.
Kingery Mfg. Co. (C. & P.), ("Perfection" & "Automobile" Steam Power & "Little Gem" & "Climax" Spring Power), Cincinnati, O.
Lally, M. ("Peerless"), Cincinnati, O.
Lambert Food & Machine Co. (C. & P.), ("Lambert"), Marshall, Mich.
Lane Bros. Co. (C.), Poughkeepsie, N. Y.
Lee, Thos. ("Lee's Boss"), Cincinnati, O.
Long, W. Z., Springfield, O.
Mills, Thomas & Bro. (P.), 1301 N 8th, Phila., Pa.
Prims Machinery Co., Battle Creek, Mich.
Reuter-Jones Mfg. Co., St. Louis, Mo.
Stutsman, R. O. Co., Des Moines, Ia.
Whitman Agl. Co. (C. & P.), St. Louis, Mo.

## 9657a—Roasters & Baking Pans

Royal Polished Steel Roaster Co. ("New Royal" Polished Sheet Steel), Troy, O.

## 9658—Robes (Carriage & Lap)

American Buffalo Robe Co. (Carriage, Plush, Lap, Automobile, Baby Carriage), Buffalo, N. Y.
Ayres, Wm. & Sons (Lap), Cumberland, from 3d to 4th, Philadelphia, Pa.
Beckman Company (Carriage, Lap, Woolen), Cleveland, O.
Bishop, J. H. Co. (Carriage, Fur), Wyandotte, Mich.
Buell Mfg. Co. (Carriage, Woolen), St. Joseph, Mo.
Chase, L. C. & Co. (Plush), Boston, Mass.
Curtis & Von Bernuth Mfg. Co. (Carriage), 88 W B'way, New York
Day, O. F. Son & Co. (Carriage), Baltimore, Md.
Goodyear Rubber Co. (Lap), 787 B'way, New York
Newichawanick Co. (Carriages), South Berwick, Me.
North Star Woolen Mill Co. (Carriage), Minneapolis, Minn.
Peters Harness & Saddlery Co. (Lap), Newark, N. J.
Pontoosuc Woolen Mfg. Co. (Carriage, Lap), Pittsfield, Mass.
Riley, Wm. B. & Co. (Carriage, Lap & Automobile), 55th & Hunters la, Phila., Pa.
Sanford Mills (Carriage, Plush, Wool), Sanford, Me.
Saxonville Mills (Carriage), Boston, Mass.
Taylor Textile Co. (Lap), 1615 Foulkrod, Frankford, Phila., Pa.
Vehicle Apron & Hood Co., Columbus, O.

## Rock Crusher Parts

(See Castings, Rock Crusher)

## Rock Face Steel Siding

(See Steel Brick & Rock Face Siding)

## 9659— Rock Salt Mfrs.

Retsof Mining Co., 2 Rector, New York
Wadsworth Salt Co., Wadsworth, O.

## Rock Wool

(See Mineral Wool)

## 9660— Rods (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
Electric Smelting & Aluminum Co., Lockport, N. Y.
Janney, Steinmetz & Co., Phila., Pa.
LEAVITT, C. W. & CO., 34 Church, New York (See adv. index, end of book)
Scoville Mfg. Co., Waterbury, Conn.

## 9661— Rods (Anchor)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Amos, Chas. & Co., Detroit, Mich.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
DES MOINES BRIDGE & IRON CO., 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Crouse-Hinds Co. ("Adjustarod"), Syracuse, N. Y.
Graham Nut Co., Pittsburg, Pa.
Hubbard & Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Klein, Mathias & Sons (For Guy Wires), 562 W Van Buren, Chicago, Ill.
Lake Erie Iron Co., Cleveland, O.
Lanz, Mathew & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
NATIONAL BOLT & NUT CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
Pittsburg Rivet Co., 38th & R. R., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I
Republic Iron & Steel Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.

## 9662— Rods (Awning)

Hubbard & Co. (Galvanized Iron), Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.

## 9662a—Rods (Bamboo Extension)

MYERS, F. E. & BRO., Ashland, O. (See adv. index & branch offices, end of book)

## 9663—Rods (Bessemer Coppered)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, O.

## 9664—Rods (Black Steel)

Kidd Bros. & Burgher Steel Wire Co., Aliquippa, Pa.

## 9665— Rods (Brace)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9666—Rods (Brake Lever Connecting)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.

## 9667—Rods (Brass & Copper)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Brass Co. (Brass Only), Kenosha, Wis
Chicago Screw Co. (High Brass Only), 1026 S Homan av, Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills (Also Bronze), Detroit, Mich.
French Mfg. Co. (Irregular Shapes & Solid Drawn), Waterbury, Conn.
Griswold Co. (Cooper Only), Sterling, Ill.
Hendricks Bros. (Copper Only), 49 Cliff, New York
HUNGERFORD, U. T. BRASS & COPper Co. (Yellow Metal & Tobin Bronze), 497 Pearl, New York
Manhattan Brass Co., 338 E 28th, New York
MERCHANT & EVANS CO. (Inc.), (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Copper & Brass Co. (Also Bronze), Detroit, Mich.
New Jersey Tube Co. (Brass Only), Harrison, N. J.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Randolph-Clowes Co., Waterbury, Conn.
Reeves, Paul S. & Son (Red & Yellow Brass, Do Not Make Copper Rods), 1415 Catharine, Phila., Pa.
Rome Brass & Copper Co., Rome, N. Y.
Scovill Mfg. Co. (Brass Only), Waterbury, Conn.
Taunton-New England Copper Co. (Copper Only), New Bedford & Taunton, Mass.
Waclark Wire Co. (Copper Only), 49 Wall, New York
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mills (Inc.), Waterbury, Conn.

## 9668—Rods (Bridge & Roof)

American Bolt Co., Birmingham, Ala.
American Iron & Steel Mfg. Co., Lebanon, Pa.
ARCHITECTURAL IRON & WIRE Works, Wheeling, W. Va. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Columbia Bolt Works, Columbus, O.
DES MOINES BRIDGE & IRON CO., 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Dietrich Bros., 344 North, Baltimore, Md.
Dunne, Geo. W. & Co., 1943 Carroll av, Chicago, Ill.
Frelinger, J. G. Iron Works, Cincinnati, O.
Graham Nut Co., Pittsburg, Pa.
Hedden Iron Construction Co., Newark, N. J.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kropp, A. & Co., 527 Law av, Chicago, Ill.
Lake Erie Iron Co., Cleveland, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
NATIONAL BOLT & NUT CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
Neely Nut & Bolt Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Parkhurst Bros. & Co., Indianapolis, Ind.
Pawtucket Mfg. Co., Pawtucket, R. I.
Payne's Bolt Works, San Francisco, Cal.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Pittsburgh Rivet Co., Pittsburgh, Pa.
Preble, Edw., 103 Sumner, E B, Boston, Mass.
Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.
Republic Iron & Steel Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.
Wendt, Albert, 456 E 2d, Cincinnati, O.
Wichita Mfg. Co., Wichita, Kan.
WORDEN-ALLEN CO., P. O. Box 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 9668a— Rods (Bridle)

DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index & branch offices, end of book)

## 9669— Rods (Bronze)

Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## 9670— Rods (Camber)

American Iron & Steel Mfg. Co., Lebanon, Pa.

## 9671— Rods (Chair)

Lamson & Sessions Co., Cleveland, O.
National Screw & Tack Co., Cleveland, O.
Reed & Prince Mfg. Co. (Wood Screw Point, Flat Head), Worcester, Mass.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.

## 9672—Rods (Conduit Wiring & Cleaning)

Bissell, F. Co. ("Security"), Toledo, O.
Bond, Harold L. Co. ("Felton"), 888 Atlantic av, Boston, Mass.
Cope, T. J., 1445 Westmoreland av, Phila., Pa.
DIAMOND EXPANSION BOLT CO. ("Empire"), 90 West, New York. (See adv. index & branch offices, end of book)
Meckel, Fred L., 11 E 13th, Chicago, Ill.
Monroe Electrical Mfg. Co., Monroe, Mich.
Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
Perfection Electric Mfg. & Supply Co. ("Mandrel"), 48 Park row, New York
Stevens Mfg. Co., Woodbury, N. J.

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## 9673— Rods (Connecting)

**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)
**BAY CITY FORGE CO., Erie, Pa.** (See adv. index, end of book)
Bethlehem Steel Co., South Bethlehem, Pa.
**Boston Forge Co., 340 Maverick, E B, Boston, Mass.**
**Brylgon Steel Casting Co. (Cast Steel), New Castle, Del.**
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Company, Pittsburg, Pa.
**Chester Steel Casting Co., 407 Sansom, Phila.,**
Columbus Anvil & Forging Co., Columbus, O.
**Crucible Steel Co. of America, Pittsburg, Pa.**
Dunne, Geo. W. & Co., 1943 Carroll av, Chicago, Ill.
Electric Welding Products Co., Cleveland, O.
Ellwood City Forge Co., Ellwood City, Pa.
Erie Forge Co. (Forged), Erie, Pa.
Graham Nut Co., Pittsburg, Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keystone Drop Forge Works, Chester, a.
Lake Erie Iron Co., Cleveland, O.
Midvale Steel Co., Nicetown, Phila.. Pa.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Obenberger Drop Forge Co., Milwaukee, Wis.
**Otis Steel Co., Cleveland, O.**
**Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.**
Pettibone, Mulliken & Co., 204 Dearborn, Chicago, Ill.
**Pittsburgh Rivet Co., 38th & R R, Pittsburgh,**
Reading Iron Co., Reading, Pa. Pa.
Richmond Forgings Corporation (Drop Forged), Belle Isle, Richmond, Va.
Smith, A. O. Co. (Drop Forged), Milwaukee, Wis.
**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)
**Sundberg, Kropp Co., 2510 W 21st, Chicago, Ill.**
**Tindel-Morris Co., Eddystone, Pa., & Ellwood City, Pa.**
**Tioga Steel & Iron Co., 52d & Gray's av,** Phila., Pa.
Titusville Forge Co., Titusville, Pa.
**Transue & Williams Co.** (Drop Forged), Alliance, O.
**Union Drop Forge Co.** (Drop Forged), 358 W Indiana, Chicago, Ill.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 9674— Rods (Curtain)

American Ring Co., Waterbury, Conn.
Berbecker & Rowland Mfg. Co., Waterville, **Conn.**
Bogert & Hopper Co. (Wooden), 164 William, New York
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Fowler & Co., Worcester, Mass.
**Newell Mfg. Co. (Brass, Steel & Brass Plated Extension), Ogdensburg, N. Y.**
Ossawan Mills Co., Norwich, Conn.
Parker Wire Goods Co., Worcester, Mass.
Pullman Mfg. Co. (Coil Spring), Rochester,
Richards, B. & Co., Winsted, Conn. N. Y.
Spencer Wire Co., Worcester, Mass.
Standard Development Co. ("Barrett" Flexible), 18 E Kinzie, Chicago, Ill.
**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)
Wilson, O. B. Mfg. Co., Gosport, Md.
Wire Goods Co., Worcester, Mass.
**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

## 9675— Rods (Dock)

**Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.**
**Kropp, A. & Co., 52 Law av, Chicago, Ill.**
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Pittsburgh Rivet Co., Pittsburgh, Pa.

## 9676— Rods (Drill)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago. Ill. (See adv. index & branch offices, end of book)
Crucible Steel Co. of America (Polished, Scoured & Lime-Finished Steel), Pittsburg, Pa.
**FRASSE, PETER A. & CO. (Also High Speed), Sullivan & Canal, New York.** (See adv. index & branch offices, end of book)
Globe Wire Co. (Polished), Sharpsburg, Pa.
Halcomb Steel Co. (Crucible Steel), Syracuse, N. Y.
Kidd Bros. & Burgher Steel Wire Co. (Polished, Square & Special), Aliquippa, Pa.
Logan Iron & Steel Co. (Iron), Burnham, Pa.
National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburg, Pa.
New Process Steel Co., Lancaster, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Tool Steel Wire Co. ("Monaca," "Champion"), Monaca, Pa.
Spencer Wire Co. (Bright Polished Steel), Worcester, Mass.
Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

## 9677—Rods (End Measuring)

Brown & Sharpe Mfg. Co., Providence, R. I.

## 9678— Rods (Eye)

American Iron & Steel Mfg. Co., Lebanon, Pa.
**ANDERSON FORGE & MACHINE** Co., Fairview, Detroit, Mich. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, M. & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
Pittsburg Rivet Co., 38th & R. R., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.

## Rods (Fibre)

(See Fibre, Hard)

## 9679— Rods (Fishing)

Bogert & Hopper Co. (Wooden), 162 William, New York
Divine, Fred D. Co., Utica, N. Y.
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Horrocks-Ibbotson Co., Utica, N. Y.
Heddon, Jas. & Sons, Dowagiac, Mich.
Holland Sporting Goods Co. ("New Century" Telescope Casting Rod, etc.), Holland, Mich.
Horton Mfg. Co. ("Bristol," "Rainbow," Luckie" Steel), Bristol, Conn.
Martin Automatic Fish Reel Co., Mohawk, N. Y.
Montague City Rod Co., Montague City, Mass.
Payne, E. F., Highland Mills, N. Y.
Standard Fishing Rod Co. ("Grover Cleveland" Fly & Bait Rod, Split Bamboo, Calcutta, Lacewood, etc.), West Brookfield, Mass.
Union Hardware Co. (Steel), Torrington, Conn.
Van Doren Mfg. Co. (Steel), Chicago Heights, Ill.

## 9680—Rods (Gauging & Wantage)

Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 9681—Rods (German Silver)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Reeves, Paul S. & Son, 1415 Catharine, Phila., Pa.
Riverside Metal Co., Riverside, N. J.
Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Waterbury Brass Co., Waterbury, Conn.

## Rods (Glass)

(See Tubing, Glass)

## Rods (Gun Cleaning)

(See Tools, Gun Cleaning & Reloading)

## 9682— Rods (Gun Screw)

Independent Steel Co. of America, Kenova, W. Va.

## 9683— Rods (Guy)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Columbus Bolt Works, Columbus, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Rivet Co., 38th & R. R., Pittsburg, Pa.

## Rods (Hard Fibre)

(See Fibre, Hard)

## 9684—Rods (Hollow Drill)

Seamless Tube Co. of America (Seamless Cold Drawn Steel), Pittsburg, Pa.

## 9685— Rods (Hydrant)

American Foundry & Mfg. Co., St. Louis, Mo.
Hauer, J. B., 23 Richardson, Brooklyn, N. Y.
**HAYS MFG. CO., Erie, Pa. (See adv.** index, end of book)
Salem Brass & Iron Mfg. Co., Salem, N. J.
Sanitary Cesspool Co., 333 S 20th, Phila., Pa.

## 9686— Rods (Leveling)

Chicago Steel Tape Co., 6229 Cottage Grove av, Chicago, Ill.

## 9687—Rods (Manganese Bronze)

American Manganese Bronze Co., 99 John, New York
Reeves, Paul S. & Son (Rolled), 1415 Catharine, Phila., Pa.

## 9688—Rods (Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York

## 9689— Rods (Measuring)

Aloe, A. S. Co., 513 Olive, St. Louis, Mo.
Brown & Sharpe Mfg. Co., Providence, R. I.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg,** Pa. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
Pratt Engineering & Machine Co. (Acid), Atlanta, Ga.
Pratt & Whitney Co., Hartford, Conn.
Scott, Olin (U. S. Standard), Bennington, Vt.

**SOLTMANN, E. G.**

(Also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 9690— Rods (Mitre)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Disston, Henry & Sons, Inc. (Masons), Tacony, Phila., Pa.

## 9691—Rods (Phosphor Bronze)

Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Phosphor Bronze Smelting Co., 2204 Washington, av, Philadelphia, Pa.
Reeves, Paul S. & Sons (Rolled), 1415 Catharine, Phila., Pa.
Riverside Metal Co., Riverside, N. J.

## 9692— Rods (Piston)

**BAY CITY FORGE CO., Erie, Pa.** (See adv. index, end of book)
Bethlehem Steel Co., South Bethlehem, Pa.
Boston Forge Co. (Steel), 340 Maverick, E. B., Boston, Mass.
Braeburn Steel Co. (Steel), Braeburn, Pa.
Cambria Steel Co. (Cold Drawn), Johnstown, Pa.
Carnegie Steel Company, Pittsburg, Pa.
Carbon Steel Co., Pittsburg, Pa.
Columbia Steel & Shafting Co., Rankin, Pa.
Crucible Steel Co. of America, Pittsburg, Pa.

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Helmbacher Forge & Rolling Mill Co., Wainwright bldg, St. Louis, Mo.
Jones & Laughlin Steel Co. (Cold Rolled Steel), Pittsburg, Pa.
Midvale Steel Co., Nicetown, Phila, Pa.
Phosphor Bronze Smelting Co. (Ltd.), 2200 Washington av, Phila, Pa.
Reading Iron Co., Reading, Pa.
Reeves, Paul S. & Son (Red & Yellow Brass, Bronze, also "Tubal" Manganese, Phosphor & Acid Resisting Bronze), 1415 Catharine, Phila., Pa.
Republic Iron & Steel Co. (Cold Drawn Polished Steel), Pittsburg, Pa.
Standard Steel Wks., Harrison bldg, Phila., Pa.
Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.
Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa.
Titusville Forge Co., Titusville, Pa.
Union Drawn Steel Co. (Cold Drawn Steel), Beaver Falls, Pa.

## Rods (Platinum)

(See Platinum, Sheet & Wire)

## 9693— Rods (Pump)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Bliss & Laughlin (Inc), Harvey, Ill.
Brightman Mfg. Co. (Galvanized), Columbus, O.
Columbia Steel & Shafting Co., Rankin, Pa.
Fitzsimons Co. (Polished Steel), Youngstown, O.
Jones & Laughlin Steel Co. (Cold Rolled Steel), Pittsburg, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Reeves, Paul S., & Son (Red & Yellow Brass, Bronze, also "Tubal" Manganese, Phosphor & Acid Resisting Bronze), 1415 Catharine, Phila., Pa.
Republic Iron & Steel Co. (Cold Drawn Polished Steel), Pittsburg, Pa.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.
Union Drawn Steel Co. (Cold Drawn Steel), Beaver Falls, Pa.

## 9693a— Rods (Rake)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9694— Rods (Ram)

Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

## 9695— Rods (Resistance)

**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite),** Jersey City, (N. J. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N .Y. (See adv. index & branch offices, end of book)
Wirt, Chas. & Co. ("Di-el-ite"), 4901 Stenton av, Gtn., Phila., Pa.

## 9696— Rods (Rivet)

Carnegie Steel Co. (Open Hearth Steel), Pittsburg, Pa.

## 9697—Rods (Roller Bearing)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Kidd Bros. & Burgher Steel Wire Co., Aliquippa, Pa.
Union Drawn Steel Co. (Cold Drawn High Carbon Steel), Beaver Falls, Pa.
Washburn Wire Co., Phillipsdale, R. I., & 118th & H. R., New York

## Rods (Rubber)

(See Rubber Rods & Sheets)

## 9698—Rods (Sash Curtain)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
**Wire Goods Co. (Adjustable), Worcester, Mass.**

## 9699— Rods (Screw)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cambria Steel Co. (Cold Drawn & Cold Rolled, etc.), Johnstown, Pa.
Fitzsimons Co. (Polished Steel), Youngstown, Ohio
Kidd Bros. & Burgher Steel Wire Co. (Polished), Aliquippa, Pa.
Reading Screw Co., Norristown, Pa.

## 9700— Rods (Sewer)

Bissell, F. Co. ("Security," That Joint & Unjoint), Toledo, Ohio

## 9701— Rods (Side)

Carbon Steel Co., Pittsburg, Pa.
Helmbacher Forge & Rolling Mill Co., St. Louis, Mo.
Standard Steel Wks., Harrison bldg, Phila., Pa.

## 9702— Rods (Stair)

Ashtabula Mfg. Co., Ashtabula, O.
Gould's M. Son & Co. (Brass & Bronze), 83 Reade, N. Y.
Judd, H. L. C., 87 Chambers, New York.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Walker, D. Mfg. Co., Newark, N. J.

## Rods (Steel Hammer)

(See Rods & Rams, Steel Hammer)

## 9703— Rods (Stove)

Adams Company (Slotted Heads), Dubuque, Ia.
American Screw Co., Providence, R. I.
Berry Bros. (And Seat), Columbus, O.
Chicago Nut Co., 617 W Jackson boul, Chicago, Ill
Corbin Screw Corporation, New Britain, Conn.
Fanner Mfg. Co., Cleveland, O.
Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Screw & Tack Co., Cleveland, O.
National Supply Co., Baltimore, Md.
Ohio Nut & Bolt Co., Berea, O.
Reed & Prince Mfg. Co., Worcester, Mass.
Russell, Burdsall & Ward Bolt & Nut Co. Port Chester, N. Y., & Rock Falls, Ill.
Troy Nickel Works, Albany, N. Y.
Upson Nut Co., Unionville, Conn.
Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

## 9704— Rods (Sucker)

Columbus Sucker Rod Co. (Wood, for Oil & Water Wells), Columbus, O.
Dresser, S. R. Mfg. Co., Bradford, P.
Findlay Sucker Rod Co., Findlay, O.
Kile Mfg. Co., Akron, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Weinman Pump Mfg. Co. (Wood), Columbus, O.

## 9704a— Rods (Tedder)

(See Rods, Rake)

## 9705— Rods (Tension)

**FRASSE, PETER A. & CO. ("Brunton's"),** Canal & Sullivan, New York (See adv.index & branch offices, end of book)

## 9706— Rods (Tie)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa
Ames, W. & Co., Jersey City, N. J.
**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
**CHAMPION IRON CO. (Beam), Kenton, O.** (See adv. index, end of book)
Hubbard & Co., Pittsburg, Pa.
Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill
Kansas City Bolt & Nut Co., Kansas City, Mo
Lanz, M. & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Mulvey, Chas. Mfg. Co., 1539 35th, Chicago, Ill.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.
New Castle Forge & Bolt Co., New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Pawtucket Mfg. Co., Pawtucket, R. I.
Penna. Iron Co., Lancaster, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Steel Car Forge Co. (Upset or Plain Threaded)
Frick bldg, Pittsburg, Pa. Works, Ellwood City, Pa.
Western Tool & Forge Co., Brackenridge, Pa.

## 9707—Rods ("Tobin" Bronze & Copper)

Waterbury Brass Co., Waterbury, Conn.

## 9708— Rods (Towel)

American Tube & Stamping Co., (Removable, Adjustable, Can Be Made Any Length), Bridgeport, Conn.

## 9708a— Rods (Truss)

(See Rods, Bridge & Roof)

## 9709— Rods (Upset)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Continental Bolt & Iron Works, 23d & Union, Chicago, Ill.
Fort Pitt Forge Co., Pittsburg, Pa.
Harris, Wm. & Son Co., N S, Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila, Pa.
Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Michigan Bolt & Nut Works, Detroit, Mich.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch office, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
O'Leary, Arthur J. & Son Co., 644 W Lake, Chicago, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Rivet Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Valley Forging Co., Verona, Pa.

## 9710—Rods (Ventilator Controlling)

Peters, Jas. & Son, 1934 N Front, Phila, Pa.

## 9711—Rods (Vulcanized Fibre)

(See also Fibre, Hard)

**AMERICAN VULCANIZED FIBRE CO.,** Wilmington, Del. (See adv. index, end of book)
**DELAWARE HARD FIBRE CO.,** Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)

## 9711a—Rods (Watch Screw)

Kidd Bros. & Burgher Steel Wire Co. (Polished), Aliquippa, Pa.

## 9712— Rods (Wire)

**AMERICAN STEEL & WIRE CO.** (Of Open Hearth & Bessemer Steel), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ashland Steel Co. (Bessemer Steel), Ashland, Ky.
Atlanta Steel Co. (Open Hearth Steel), Atlanta, Ga.
Cambia Steel Co., Johnstown, Pa.
Carpenter Steel Co., Reading, Pa.
Colorado Fuel & Iron Co., Denver, Col.
Crucible Steel Co. of America (Crucible Steel; also in Coils), Pittsburg, Pa.
Grand Crossing Tack Co. (Bessemer & Open Hearth), S. Chicago av & 79th, Chicago, Ill.
Griswold Co. (Steel & Iron), Sterling, Ill.
Illinois Steel Co., Commercial Bank bldg., Chicago, Ill.
Independence Steel Co. of America. Kenova, W. Va.

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Kidd Bros. & Burgher Steel Wire Co. (Polished Steel Rods), Aliquippa, Pa.
Kokomo Steel & Wire Co. (Small), Kokomo, Ind.
Page Woven Wire Fence Co., Adrian, Mich.
Works, Monessen, Pa.
Pittsburg Steel Co., Pittsburg, Pa.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Southern Iron & Steel Co., Birmingham, Ala.
Washburn Wire Co., Phillipsdale, R. I. & 118th & H R, New York
Wickwire Bros., Cortland, N. Y.

## 9713— Rods (Wood Saw)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

## 9714— Rods (Zinc)

Edes Mfg. Co., Plymouth, Mass.
**MERCHANT & EVANS CO. (Inc.)** (For Battery & Other Purposes), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## 9715—Rods & Rams (Steel Hammer)

**BAY CITY FORGE CO., Erie, Pa.** (See adv. index, end of book)
Bethlehem Steel Co., South Bethlehem, Pa.
Tioga Steel & Iron Co., 52d & Gray's av, Phila, Pa.

## 9716—Roll Bars & Bed Plates (Paper Mill Engine)

American Knife Co., Baldwinsville, N. Y.
Anderson Knife & Bar Co., Anderson, Ind.
Dowd, R. J. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## 9717—Roll Grinding & Corrugating

Acme Mill Works, Greensboro, N. C.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Am. Metallic Packing Co., Lexington, Ky.
Barnard Mfg. Co., Spokane, Wash.
Barnard & Leas Mfg. Co., Moline, Ill.
Barry-Wehmiller Machine Co., St. Louis, Mo.
Bollinger Bros., Pittsburg, Pa.
Buffalo Engine Co., Buffalo, N. Y.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Capitol Iron Works, Topeka, Kans.
Cornelius Mill Furnishing Co., St. Louis, Mo.
Harrisburg Roll Grinding & Corrugating Co., Harrisburg, Pa.
Nashville Machine Co., Nashville, Tenn.
Nordyke & Marmon Co., Indianapolis, Ind.
Portland Iron Works, Portland, Ore.
Reilly, A. E., Buffalo, N. Y.
Rochester Roll Grinding & Corrugating Co., Rochester, N. Y.
Salem Foundry & Machine Works, Salem, Va.
Silver Bros. Iron Works Co., Salt Lake City, Utah
**SPROUT, WALDRON & CO., Muncy, Pa.** (See adv. index, end of book)
Starr, B. F. Co., Baltimore, Md.
Straub Machinery Co., Cincinnati, O.
Strong-Scott Mfg. Co., Minneapolis, Minn.

## 9718— Roller Coasters

Ingersoll Construction Co., Pittsburg, Pa.

## Roller Mills

(See Mills, Roller Grinding)

## 9718a— Roller Skate Parts

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 9719—Roller & Pulverizer Combined

Bucher & Gibbs Plow Co., Canton, O.
Crookston Mfg. Co., Crookston, Minn.
Fulton Machine Co. ("The Cyclone"), Canal Dover, O.
Macgowan & Finigan, St. Louis, Mo.
Ohio Cultivator Co. (Sizes 6, 7½, 9, 12 ft.), Bellevue, O.
Peterson Mfg. Co., Kent, O.

## 9720— Rollers (Barn Door)

American Foundry & Mfg. Co., St. Louis, Mo.
Arnold Co., Norwalk, Conn.
Cheney, S. & Son, Manlius, N. Y.
Griffin Mfg. Co., Erie, Pa.
Hunt, Helm & Ferris Co., Harvard, Ill.
Lawrence Bros., Sterling, Ill.
McKinney Mfg. Co., (adjustable) N. S. Pittsburg, Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Mfg. Co. (Reversible & Adjustable), Sterling, Ill.
New England Butt Co., Providence, R. I.
Ney Mfg. C., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Stowell Mfg. & Foundry Co., So. Milwaukee, Wis.
Swett, A. L. Iron Works, Medina, N. Y.
Swineford, G. A. Co., Canton, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## Rollers (Car Curtain)

(See Rollers & Fixtures, Car Curtain)

## 9721—Rollers (Barn Doors, Stay)

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Mfg. Co., Sterling, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn. Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
**RICHARDS - WILCOX MFG. CO.** ("Richards-Wilcox"), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Sargent & Co., New Haven, Conn.
Stowell Mfg. & Foundry Co., So. Milwaukee, Wis.

## 9722— Rollers (Cable)

(For Pulling in Cables)

Bissell, F. Co., Toledo, O.
Cope, T. J., 1445 Westmoreland av, Phila., Pa.
Matthews, N. W. & Bro. ("Callahan"), St. Louis, Mo.

## 9723—Rollers (Cable Tramway)

**UNION ELEVATOR & MACHINE CO.,** 915 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 9724—Rollers' (Carriage Curtain)

Spring Perch Co., Bridgeport, Conn.

## 9725— Rollers (Concrete)

**BUFFUM TOOL CO. (Bush Hammer,** Indentation, etc.), Louisville, Mo. (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO.** ("Crescent" Hand), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Kramer Bros. Foundry Co. ("Gem" Hand Rollers for Cement Sidewalks), Dayton, O.
**RANSOME CONCRETE MACHINERY** Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

## Rollers (Copper Printing)

(See Textile Machinery, Etc.)

## 9726—Rollers (Drawer, Ball Bearing)

Pressed Steel Mfg. Co. ("Knipe"), The Land Title bldg, Phila., Pa.

## 9727—Rollers (Electric Cable)

Matthews, W. N. & Bro. (Malleable Iron, for Putting Up Heavy Cables), St. Louis, Mo.

## Rollers (Flue)

(See Expanders, Tube)

## 9728—Rollers (Gasoline Road)

Ohio Tractor Mfg. Co., (Tractor & Roller Combined) Marion, O.

## 9729—Rollers (House Movers')

Oshkosh Mfg. Co. (Wood), Oshkosh, Wis.
Temple Pump Co., 418 W 15th pl, Chicago, Ill.

## 9730— Rollers (Incline)

Gustafson Mfg. Co., Chattanooga, Tenn.

## 9731—Rollers (Land & Field)

Allen, E. R., Corning, N. Y.
Almy, Samuel & Son, Trumansburg, N. Y.
American Bell & Foundry Co., Northville, Mich.
American Road Mach. Co., Kennett Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Arnold's, W. G. Son, Iona, Mich.
Avery, B. F. & Sons, Louisville, Ky.
Barley, Thos. K., Sedalia, Mo.
Bauch, Fred, (Cast Iron), Alliance, O.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Brennan, D. C. & C., Louisville, Ky.
Bucher & Gibbs Plow Co. (Steel, T-Bar, Tubular, Clod Crushers & Pulverizers), Canton, O.
Buch's, A. Sons, Elizabethtown, Pa.
Buffalo Steam Roller Co., Buffalo, N. Y.
Burr, E. M. Co., Champlain, Ill.
Comstock, Geo. S. (Steel & Wood, Double), Mechanicsburg, Pa.
Connor, J. W. & Son (Cast-Head & Bolted Plank), Orangeville, Pa.
Danielsen Implement Co., Independence, Mo.
Deats, E. Hiram, Jr., Pittstown, N. J.
Deuscher, H. P. Co., Hamilton, O.
Donaldson Bros. (Iron & Wooden), Mount Clemens, Mich.
Drusdieker Foundry & Mfg. Co. (Clod Crushers & Pulverizers), Pekin, Ill.
Dunham Co. (Steel Frame Pulverizer), Berea, O.
Eddy, W. Plow Co., Greenwich, N. Y.
Everets Mfg. Co., Meridian, N. Y.
Gale Mfg. Co. (Steel or Wood Frame), Albion, Mich.
Genesee Valley Mfg. Co., Mount Morris, N. Y.
Gowanda Agricultural Works, Gowanda, N. Y.
Greenville Implement Co., Greenville, Mich.
Harder Mfg. Co., Cobleskill, N. Y.
Harrison, W. R. & Co., Massillon, O.
Hench & Dromgold Co., York, Pa.
Howland E. & Sons, Pontiac, Mich.
I. C. I. Co. (Combined Harrow & Roller), Annville, Pa.
Johnson & Field Mfg. Co., Racine, Wis.
Keystone Farm Machine Co. (Steel or Oak Drum), York, Pa.
Lean, Roderick Mfg. Co. (Steel Land & Corn), Mansfield, O.
Lee, R. E., Almont, Mich.
Lehr Agricultural Co. (Steel Shell), Fremont, Ohio
Lovejoy Co., Cambridge, N. Y.
Macgowan & Finigan, St. Louis, Mo.
Messinger Mfg. Co., Tatamy, Pa.
Munnsville Plow Co. (Steel or Wood), Munnsville, N. Y.
Ohio Cultivator Co., Bellevue, O.
Ohio Rake Co., Dayton, O.
Peek, S. H., E. Aurora, N. Y.
Peterson Mfg. Co., Kent, O.
Ripson, Wm. & Son, Youngstown, N. Y.
Rock Island Plow Co., Rock Island, Ill.
Sellers, Edw., Oak Hall Station, Pa.
Sherwin, E. C. & Son, Brandon, Wis.
Sweet, Geo. Mfg. Co., Dansville, N. Y.
Tanner, D. F., Holland, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Thornburgh Mfg. Co., Bowling Green, O.
Toledo Plow Co., Toledo, O.
Weaver, Frank L., New Oxford, Pa.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Works Co., St. Louis, Mo.
Wilder-Strong Implement Co., Monroe, Mich.
Williams Bros., Ithaca, N. Y.
Woodhouse, J. S., 191 Water, New York
Yorks, Henry, Honeoye Falls, N. Y.

## 9732—Rollers (Lawn Mower)

(See Rollers, Wood)

Piqua Handle & Mfg. Co. (Wooden), Piqua, O.

## 9733—Rollers (Lawn & Garden)

Allen, E. R., Corning, N. Y.
American Road Mach. Co., Kennett Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass
Bausman, D. H., Bausman, Pa.
Brennan & Co., Louisville, Ky.
Buch's, A. Sons Co. ("Keystone"), Elizabethtown, Pa.
Buffalo Steam Roller Co., Buffalo, N. Y.
Donaldson Bros., Mount Clemens, Mich.

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Dunham Co., Berea, O.
Eddy, W. Plow Co., Greenwich, N. Y.
Gowanda Agricultural Works, Gowanda, N. Y.
Harry Bros. Co., ("Harry's," Galvanized Sheet Iron, Fill with Water), Newport, Ky. & New Orleans, La.
Kelly-Springfield Road Roller Co. (Steam & Gasoline), Springfield, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Messinger Mfg. Co., Tatamy, Pa.
Mott, J. L. Iron Works, 118 5th av, New York
SMITH, F. P. WIRE & IRON WORKS, Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Supplee Hardware Co., 503 Market, Phila., Pa.
Thornburgh Mfg. Co., Bowling Green, O.
Van Dorn Iron Works Co., Cleveland, O.
Westervelt, A. B. & W. T., 102 Chambers, New York
Whitehurst, R. W. & Co., Norfolk, Va.
Whitman Agr'l Works Co., St. Louis, Mo.
Wilder-Strong Implement Co., Monroe, Mich.

## 9734— Rollers (Mine)

PITTSBURG SHOVEL CO., Oliver Bldg, Pittsburg, Pa. Works: Leechburg, Pa. (See adv. index & branch offices, end of book)

## 9735—Rollers (Paper Hangers')

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 9736—Rollers (Paper Machine)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
GOODRICH, B. F. CO., Akron, O. (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
HOME RUBBER CO., Trenton, N. J. (See adv. index & branch offices, end of book)
Peerless Rubber Co., 16 Warren, New York
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 9737— Rollers (Pipe)

Grabler Mfg. Co. (Cast Iron, also Roller Hangers & Bolts, etc.), Cleveland, O.

## 9738— Rollers (Plate Glass)

Stortz, John, & Son, 210 Vine, Phila., Pa.

## 9739— Rollers (Pudding)

Universal Road Machinery Co. ("Universal" for Reservoir & Embarkment Work), Kingston, N. Y.

## 9740—Rollers (Reversible Road)

Buffalo Steam Roller Co., Buffalo, N. Y.
Enterprise Mfg. Co., Columbiana, O.
Goods Roads Mach'y Co., Kennett Square, Pa.

## 9741—Rollers (Road, Horse Power)

Acme Road Machinery Co., Frankfort, N. Y.
American Harrow Co., Detroit, Mich.
American Road Mach. Co., Kennett Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Austin Mfg. Co., Manhattan bldg, Chicago, Ill., & Harvey, Ill.
Enterprise Mfg. Co., Columbiana, O.
Gaines, F. L. ("Economy"), Grand Rapids, Mich.
Galion Iron Works Co., Galion, O.
Goods Roads Mach'y Co., Kennett Square, Pa.
Indiana Road Machine Co. ("Indiana"), Fort Wayne, Ind.
Pioneer Iron Wks., 149 Pioneer, Brooklyn, N. Y.
Universal Road Machinery Co. (Plain & Reversible), Kingston, N. Y.
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.

## 9742—Rollers (Rubber Covered)

BOSTON BELTING CO. ("Forsyth"), 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Cleveland Rubber Works, Cleveland, O.
Continental Rubber Works, Erie, Pa.
Empire Rubber Mfg. Co., Trenton, N. J.
GOODRICH, B. F. CO., Akron, O. (See adv. index & branch offices, end of book)
HOME RUBBER CO., Trenton, N. J. (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Mechanical Rubber Co., 73 Reade, New York
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
N. J. Car Spring & Rubber Co., Jersey City, N. J.
NEW YORK RUBBER CO., Reade & Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
Plymouth Rubber Co., Stoughton, Mass.
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 9743— Rollers (Sash)

Corbin, P. & F., New Britain, Conn.
Peck, Stow & Wilcox, Southington, Conn.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.

## 9743a—Rollers (Seam & Glass)

SMITH & HEMENWAY CO. ("Red Devil"), 150 Chambers, New York

## 9744— Rollers (Shade)

American Shade Roller Co. (Self-Acting), 116 39th, Brooklyn, N. Y.
Ball Bearing Shade Roller Co. ("Independent" Ball Bearing), Union City, Conn.
Columbia Shade Cloth Co., 27 W. 24th, New York
Cowles, C. & Co. (Inc.), (Carriage, etc.), New Haven, Conn.
Edwards, O. M. Co. (Car, Window, etc.), Syracuse, N. Y.
Flos Shade Roller Co., 151 33rd, Brooklyn N. Y.
Hartshorn-Stewart Co., Newark, N. J.
Haviland Shade Roller Co., 407 Broome, New York
Judd, H. L. Co., 87 Chambers, New York
Minetto-Meriden Co. (Spring), Minetto, N. Y.
Quaker Shade Roller Co., Bay City, Mich.
Vermont Shade Roller Co., Burlington, Vt.
Wemple, Jay C., Co., 35 E. 20th, New York

## 9745—Rollers (Sliding Door)

RICHARDS-WILCOX MFG. CO., 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Spengler Bros. Co. (Mortised), Rockford, Ill.

## 9746—Rollers (Steam Asphalt)

Buffalo Steam Roller Co., Buffalo, N. Y.
Iroquois Iron Works ("Iroquois"), Buffalo, N. Y.
Kelly-Springfield Road Roller Co. (Steam & Gasoline), Springfield, O.
Universal Road Machinery Co., Kingston, N. Y.

## 9747—Rollers (Steam Golf Course)

Buffalo Steam Roller Co., Buffalo, N. Y.
Iroquois Iron Works, Buffalo, N. Y.
Kelly-Springfield Road Roller Co. (Steam & Gasoline), Springfield, O.

## 9748—Rollers (Steam Road)

Acme Road Machinery Co., Frankfort, N. Y.
Austin-Western Co., Ltd. (Motor Driven, Gasoline or Alcohol), Chicago, Ill.
Buffalo Steam Roller Co. ("Buffalo-Pitts"), Buffalo, N. Y.
Case, J. I. Threshing Machine Co., Racine, Wis.
Erie Machine Shops, Erie, Pa.
Galion Iron Works Co., Galion, O.
Geiser Mfg. Co., Waynesboro, Pa.
Good Roads Machinery Co., ("Monarch") Kennett Square, Pa.
Huber Mfg. Co. ("New Huber" Combination Road Roller & Traction Engine), Marion, Ohio
Iroquois Iron Works, Buffalo, N. Y.
Kelly-Springfield Road Roller Co. (Steam & Gasoline), Springfield, O.
Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delavan, Brooklyn, N. Y.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Strain & Sanford Co., 18 W 34th, New York
Universal Road Machinery Co. ("Universal"), Kingston, N. Y.

## Rollers (Towel)

(See Racks, Towel)

## 9749— Rollers (Trolley)

(See also Fibre, Hard)

AMERICAN VULCANIZED FIBRE CO. (Fibre), Wilmington, Del. (See adv. index, end of book)
CONTINENTAL FIBRE CO. (Hard Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)
PARKER, J. C. & SONS FIBRE CO. (Fibre), New Castle, Del. (See adv. index, end of book)

## 9750— Rollers (Wood)

Bogert & Hopper Co. (Caster, Lawn Mower, Mop, Pulley, Skate, etc.), 162 William, New York
Estes, E. B. & Sons (Caster, Lawn Mower, Mop, Pulley, Skate, etc.), 74 Warren, New York
Piqua Handle & Mfg. Co., Piqua, O.
Southern Roller, Stave & Heading Co. (Black Gumwood), Elizabeth City, N. C.

## 9751—Rollers & Fixtures (Car Curtain)

Acme Supply Co. ("Acme," Vestibule) 39 Jackson blvd, Chicago, Ill.
General Railway Supply Co., ("Schroyer" Friction), 204 Dearborn, Chicago, Ill.

## 9751a—Roller & Print Blocks for Wall Paper, Etc.)

Abele, Chris, 537 W. 50th, New York

## 9752—Rolling Mills (Brass & Copper)

(See also Rolling Mills, Iron & Steel)

American Brass Co., Waterbury, Conn.
American Tube Works, Boston, Mass.
Ansonia Brass & Copper Co., Ansonia, Conn.
Baltimore Copper Smelting & Rolling Co., Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Benson, H. K. & F. S., Glen Ridge, N. J.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Buffalo Copper & Brass Rolling Mills, Buffalo, N. Y.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Brass Co., Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Eureka Tempered Copper Works, North East, Pa.
Hendricks Bros., 59 Cliff, New York
Hussey, C. G., & Co., Pittsburg, Pa.
Manhattan Brass Co., 338 E 28th, New York
Michigan Copper & Brass Co., Detroit, Mich.
New Haven Copper Co. (Copper Only), Seymour, Conn.
New Jersey Tube Co., Harrison, N. J.
Nichols Copper Co., 25 Broad, New York
Plume & Atwood Mfg. Co., Waterbury, Conn.
Randolph-Clowes Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Scoville Mfg. Co. (Brass Only), Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Taunton-New Bedford Copper Co., New Bedford, Mass. & Taunton, Mass.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mill (Inc.), Waterbury, Conn.

## 9753—Rolling Mills (Continuous)

GARRISON, A. FOUNDRY CO., 901 Bingham, Pittsburg, Pa. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.
Standard Machinery Co., Providence, R. I.
United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

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## 9754—Rolling Mills (Iron & Steel)

(See also Rolling Mills, Brass & Copper)

(References following Names indicate Main or Executive Offices. For sub-classification of this industry, see Specific Article Wanted in Index of Contents)

### ALABAMA.

BIRMINGHAM—Connors-Weyman Steel Co. Iron & Steel Merchant Bar, Skelp & Muck Bar)
Republic Iron & Steel Co. (See Pittsburg, Sloss-Sheffield Steel & Iron Co. Pa.
Southern Iron & Steel Co. (Billets, Blooms, Slabs, Pig Iron, Wire, Rids, Fencing, Nails, Staples, etc.)
Tennessee Coal, Iron & R. R. Co. (Steel Billets, Blooms, Slabs, Angles, Channels, Tees, Bar, Plates, Sheets, etc.)
HELENA—Connors-Weyman Steel Co. (See Birmingham)
SHEFFIELD—North Alabama Rolling Mill Co. (Merchant Bar Iron)
Sloss -Sheffield Steel & Iron Co. (See Birmingham, Ala.)

### CALIFORNIA.

BLACK DIAMOND—Columbia Steel Co.
LOS ANGELES—California Industrial Co. Merchants Bar Iron, Bolts, Nuts, etc.)
SACRAMENTO—Southern Pacific Co. (See San Francisco)
Rudyear Steel Co. (Open Hearth Steel, Rounds, Squares, Flats, Angles, etc.)
Southern Pacific Co. (Rounds, Flats, etc.)
SAN FRANCISCO—Judson Mfg. Co. (Bar Iron, Shafting, Tacks, Nails, etc.)
Pacific Hardware & Steel Co. (Bar & Band Iron), Works, Portland, Ore.

### COLORADO.

DENVER—Colorado Fuel & Iron Co. (Billets, Blooms, Iron & Steel Rails, Bars, Sheets, Angles, Channels, Tees, Plate Bands, Hoops, etc.),
PUEBLO—Colorado Fuel & Iron Co. (See Denver)

### CONNECTICUT.

BRIDGEPORT—American Tube & Stamping Co. (Open Hearth Steel Billets, Hot & Cold Rolled Strip Steel, Crucible Steel for Springs, Cutlery, etc.)
Farist Steel Co. (Merchants' Crucible & Open Hearth Steel of All Kinds, Excepting Sheets)
COLLINSVILLE—Collins Co. (Bar Iron all Consumed by the Company)
NEW BRITAIN—Stanley Works (Cold Rolled Strip Steel)
SOUTHINGTON—Aetna Nut Co. (Merchants' Bar Iron, Nuts, Washers, etc.)
UNIONVILLE—Union Rolling Mill Co. (Merchant Bar Iron), See Cleveland, O.

### DELAWARE.

NEWPORT—Marshall Iron Co., (Smooth Finished Black Sheets, Iron, Soft Steel or Best Charcoal Bloom Sheets)
WILMINGTON—McCullough Iron Co. (Sheet Steel, Black Galvanized Painted & Corrugated Roofing & Siding)

### DISTRICT OF COLUMBIA.

GIESBORO MANOR—Firth-Sterling Steel Co. (See McKeesport, Pa.)

### GEORGIA.

ATLANTA—Atlanta Steel Co. (Steel Bands, Hoops, Cotton Ties, Bars, etc.)

### ILLINOIS.

BELLEVILLE—Hartman, Hay & Reis (Shovel, Nail & Tack Plate, Cut Nails, etc.)
CHICAGO—Aermotor Company (Wrought Iron Pipe), W 12th & Campbell av
**AMERICAN STEEL & WIRE CO.** (Steel Wire, Rods & Nails, Spikes, Staples, Tacks, Barbed Wire, Bale Ties, Horse Shoes, Plates & Sheets of Open Hearth Steel, Shafting, Cold Drawn Steel, Poultry Netting, Wire Rope, Wire Hoops, Wire Springs, etc.). Rookery bldg. (See adv. index & branch offices, end of book)
Grand Crossing Tack Co. (Open Hearth Steel Billets, Rods & Wire Mills), S. Chicago av & 79th
Illinois Steel Co. (Steel Billets, Blooms, Slabs, Ingots, Structural Shapes, Rails. Plates, Bars & Band), 115 Adams
Indiana Steel Co. (Open-hearth Billets, Blooms, Ingots, Rails, Bars, Structural Shapes, Plates, etc.), Commercial Bank bldg
Inland Steel Co. (Open Hearth Steel Blooms, Billets, Slabs, Structural Angles, Channels & Beams, Universal Plates, Merchant Bars, Plates, Sheets, Galvanized Sheets, Corrugated Sheets, Roofing & Bessemer Steel Bars, Special Sections, Harrow Teeth, Cross Arm Braces, Pole Steps, etc.), 1st Nat'l Bank bldg
**INTERNATIONAL HARVESTER** Co. of America (Products All Consumed by the Company), 123 Harvester bldg. (See adv. index, end of book)
Inter-Ocean Steel Co., 9 Jackson boul
Interstate Iron & Steel Co. (Iron & High Carbon & Soft Steel Bars, Agricultural Implement Steel, Angles, Channels, Tees, Reinforcing Steel Bars, etc.), 1st Nat. Bank bldg. Works: East Chicago, Ind., & Cambridge, O.
Phoenix Horse Shoe Co. (Bar Iron & Horse Shoes); Mills, Joliet, Ill., & Poughkeepsie, N. Y.
Pullman Co. (Product all Consumed by the Company)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
Sellers Mfg. Co. (Tie Plates, etc.), 193 Michigan av
**SIMONDS MFG. CO. (Crucible** Steel Saw Plates & Sheets, all Consumed by the Company), Main Office, Fitchburg, Mass.
Western Steel Car & Foundry Co. (Merchant Bars), Old Colony bldg.; Works, Anniston, Ala.
CHICAGO HEIGHTS—Calumet Steel Co. (Bessemer Bar Steel, Light Rails, Angles, Channels, etc.)
Columbia Tool Steel Co. (Crucible Tool & Machinery Steel & Open Hearth Steel for Special Requirements)
Inland Steel Co. (See Chicago)
EAST ST. LOUIS—Republic Iron & Steel Co.
Western Forge Co. (See Pittsburg, Pa.)
EVANSTON—Mark Mfg. Co. (Wrought Iron Pipe & Boiler Tubes) Works. Zanesville, O.
American-McKenna Process Co. (See Milwaukee, Wis.)
GRANITE CITY—National Enameling & Stamping Co.( See New York)
JOLIET—American McKenna Process Co. (See Milwaukee, Wis.)
Illinois Steel Co. (See Chicago, Ill.)
Joliet Rolling Mill Co. (Round & Square 12 to 40 lbs., Track Spikes, etc.)
Phoenix Horse Shoe Co. (See Chicago, Ill.)
KEWANEE—National Tube Co. (See Pittsburg)
MADISON—Helmbacher Forge & Rolling Mill Co. (See St. Louis, Mo.)
MOLINE—Republic Iron & Steel Co. (See Pittsburg, Pa.)
STERLING—Dillon Co. (Steel Wire, Rods & Nails)
WAUKEGAN—American Steel & Wire Co. (See Chicago)

### INDIANA.

ANDERSON—American Sheet & Tin Plate Co (See Pittsburg, Pa.)
American Steel & Wire Co. (See Chicago)
ATLANTA—Atlanta Tin Plate & Sheet Mill Co. (See Indianapolis)
EAST CHICAGO—Interstate Iron & Steel Co (See Chicago, Ill.)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
ELWOOD—American Sheet & Tin Plate Co (See Pittsburg, Pa.)
FORT WAYNE—Fort Wayne Rolling Co. (Bar Iron & Steel, etc.)
GAS CITY—American Sheet & Tin Plate Co (See Pittsburg, Pa.)
INDIANA HARBOR—Inland Steel Co. (See Chicago)
Ward-Dickey Steel Co. (Open Hearth Planished Sheet Steel)
INDIANAPOLIS—Atlanta Tin Plate & Sheet Mill Co. (Sheets & Black Plates for Tinning)
KOKOMO—Kokomo Steel & Wire Co. (Steel Wire, Rods & Nails, etc.)
LINTON—Linton Rolling Mill Co. (Steel Rails 12 to 40 lbs., Track Spikes, etc.)
MUNCIE—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
NEW ALBANY—Ohio Falls Iron Co. (Merchants' Bar & Staybolt Iron)
NEW CASTLE—Indiana Rolling Mill Co. (High Carbon Sheet Steel)
TERRE HAUTE—Highland Iron & Steel Co. (Merchants' Bar Iron & Steel)
VINCENNES—National Rolling Mill Co. (Scrap Bar & Finished Iron & Steel Bar)

### KANSAS.

KANSAS CITY—American McKenna Process Co. (See Milwaukee, Wis.)

### KENTUCKY.

ASHLAND—Ashland Steel Co. (Bessemer Steel Billets & Slabs, Wire Rods, Sheet & Tin Plate Bars, etc.)
Job Iron & Steel Co. (Black & Galvanized Sheet Iron & Steel, Bar Iron & Sheet & Tin Plate Bars)
Norton Iron Works, Inc. (Cut & Wire Nails, Wire & Wire Rods, Nail Plates)
COVINGTON—Licking Rolling Co. (Bar Iron, Sheet Iron, Shafting, etc.)
LOUISVILLE—Ewald Iron Co: (Charcoal Boiler, Fire Box, Flange & Sheet Iron & Bloom Bar)
NEWPORT—Andrews Steel Co. (Open Hearth Billets, Slabs, Ingots, Sheet & Tin Plate Bars)
Newport Rolling Mill Co. (Black & Galvanized Sheet Steel)

### MAINE.

SOUTH PORTLAND—Portland Iron & Steel Co.

### MARYLAND.

CANTON—Iron & Steel Products Co. (See Phila., Pa.)
CUMBERLAND—Cumberland Steel Co. (Cold Rolled Steel, Polished Steel Shafting, etc.)
Taylor, N. & G. Co. (See Phila, Pa.)
United States Rail Co. (Renewed Light Steel Rails)
SPARROWS POINT—Maryland Steel Co. (See Phila, Pa.)

### MASSACHUSETTS.

BOSTON—Ames Shovel & Tool Co. (Shovel Plate & Blanks, all consumed by the Company). Mills, Beaver Falls, Pa., & Elwood, Ind.
Sylvester Co. (Merchant Bar Iron, Spikes, Bolts, Tie Rods), 70 Kilby
Tremont Nail Co. (Percha Steel, Ingots, Slabs, Nail & Tack Plates & Nails & Spikes). (See West Wareham, Mass.)
HOLYOKE—Prentiss, G. W. & Co. (Wire, etc.)
SPENCER—Spencer Wire Co. (See Worcester)
WEST WAREHAM—Tremont Nail Co. (See Boston, Mass.)
WORCESTER—**AMERICAN STEEL &** Wire Co. (Washburn & Moen Branch). See Chicago. (See adv. index, end of book)
**COES, LORING & CO. (Inc.)** (Hot Rolled & Welded Materials for Knives, Dies, etc.). (See adv. index, end of book)
Morgan Spring Co. (Wire for all Purposes & Wire Nails, etc.)
Spencer Wire Co. (Iron & Bessemer Steel Wire of All Kinds; Fine Steel Wire a Specialty)
**WRIGHT WIRE CO. (Annealed,** Bright, Coppered, Tinned & Galvanized Wire) (See adv. index, end of book)

### MICHIGAN.

ADRIAN—Page Woven Wire Fence Co. (Open Hearth Steel Ingots, Wire Rods, etc.)
DETROIT—American Car & Foundry Co. (See St. Louis, Mo.
Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless Steel Tubes)
Railway Steel Spring Co. (See New York)
KALAMAZOO—Harrow Spring Co. (Refined Bar Iron, Milled Steel Bars & Spring Steel, etc.)

### MISSOURI.

KANSAS CITY—Kansas City Bolt & Nut Co. (Bar Iron, Bolts, Nuts, etc.)
ST. LOUIS—American Car & Foundry Co. (Bar Iron, etc.), 915 Olive

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**Granite Iron Rolling Mills (Owners, National Enameling & Stamping Co.), 3400 N 2nd. (See New York)**
**Helmbacher Forge & Rolling Mill Co. (Merchants' Bar Iron & Band, Rod & Guide Iron)**
**Hirsch Rolling Mill Co. (Bar Iron & Steel, Angles, Shapes, Spikes, Bolts, Light-Rails, etc.)**

## NEW JERSEY.

**BOONTON—Boonton Iron & Steel Co. (Bar Iron & Angles)**
**CHROME—Chrome Steel Works (Steel Plates, Angles & Bars, etc.)**
**DOVER—Ulster Iron Works (Merchant Bar & Staybolt Iron)**
**ELIZABETH—Singer Sewing Machine Co. (Product Rounds, Flats, etc., all Consumed by the Company)**
**HIGH BRIDGE—Taylor Iron & Steel Co. (Muck Bar for Car & Locomotive Axles, Shafts, etc.)**
**JERSEY CITY—Ames, W. & Co. (Bar Iron, Bolts, Tie Rods, Spikes, etc.)**
Crucible Steel Co. of America (Spalding & Jennings, Branch). (See Pittsburg, Pa.)
**KINKORA—Roebling's, Jno. A. Sons Co. (See Trenton, N. J.)**
**NEWARK—Heller Bros. Co. (High Speed Tool Steel)**
**PATERSON—Passaic Structural Steel Co. (Structural Steel)**
**PERTH AMBOY—Pardee, C. Works (Open Hearth Steel Billets, Blooms, Merchant Bars & Cold Rolled Shafting, etc.)**
**PHILLIPSBURG—American Horse Shoe Co. (High Grade Horse Shoes, etc.)**
**ROCKAWAY—Rockaway Rolling Mills (Bar Iron & Steel, also Double Refined Bar Iron)**
**TREMLEY POINT—American McKenna Process Co. (See Milwaukee, Wis.)**
**TRENTON—Roebling, Jno. A. Sons Co. (Steel & Copper Wire & Steel Wire Rods & Nails, etc.)**
Trenton Iron Co. (Iron & Steel Wire of all kinds, Wire Rope, Bar Iron, etc.)

## NEW YORK.

**AUBURN—International Harvester Co. of America (Agricultural Implement Mfrs., etc.), Osborne Plant. (See Chicago, Ill.)**
**Tuttle, Chas. W. (Merchant Bar Iron & Horse Shoe Iron)**
**BUFFALO—Lackawanna Steel Co. (Steel Billets, Blooms, Rails, Beams, Anchor Bars, etc.)**
New York State Steel Co. (4-in. x 4-in. Open Hearth Steel Billets, Blooms & Slabs), White bldg
Seneca Iron & Steel Co. (Black & Galvanized Sheet Steel)
**COHOES—Cohoes Rolling Mill Co. (Wrought Iron Pipe & Merchant Bar Iron)**
**CORTLAND—Wickwire Bros. (Billets, Ingots, Wire, Nails, Rods & Staples, etc.)**
**DUNKIRK—Atlas Steel Co. (High Grade Crucible Steels)**
**LOCKPORT—Westerman & Co. (Horse Shoe Iron, Rounds, Squares, Hexagons & Fancy Shapes)**

## NEW YORK CITY.

### Borough of Brooklyn.

**BROOKLYN—Igoe Bros. (Steel Wire & Nails), 69 Metropolitan av**
Miller & Van Winkle (Cold Rolled Steel & Steel Wire), 20 Bridge
Wurster, F. W. & Co. (Inc.), (Iron & Steel Bars, Axles, etc.), 375 Kent av

### Boroughs of Manhattan & Bronx.

NEW YORK—Electric Steel Co. (Iron & Steel Merchant Bar, etc.), 50 Church
**JESSOP STEEL CO. (Crucible Steel Ingots, Sheets & Saw Steel, etc.), 91 John. Works, Washington, Pa.**
Lalance & Grosjean Mfg. Co. (Black Sheets, Plates & Tin Plate, all Consumed by the Company), 299 B'way. Mills: Harrisburg, Pa.
Manhattan Rolling Mills (Inc.), (Refined Bar Iron & Horse Shoes), 362 Ave. A.
Milliken Bros., 66 B'way
National Enameling & Stampinig Co. (Mfrs. Sheet Steel for their Own Consumption), 374 B'way. Works, Granite, Ill., & St. Louis, Mo.
Philadelphia Steel & Forge Co. (Rolled & Hammered Steel Bars, Tool Steel, Die Blocks, Roled Shapes, etc.), 50 Church. Works: Tacony, Phila., Pa.
Rail Joint Co. (Bars, Rail Joints, Tram Rails), 185 Madison av. Works: Troy, N. Y.
Railway Steel Spring Co. (Open Hearth Steel Ingots, Merchant Steel Tire & Spring Steel, etc.), 30 Church
Singer Mfg. Co., 149 B'way. Works: Elizabeth, N. J.
Washburn Wire Co. (Steel Wire, etc.), ft E 118th. (See Providence, R. I.)

**(End of New York City)**

POUGHKEEPSIE—Phoenix Horse Shoe Co. (See Chicago)
ROME—Rome Merchant Iron Mills (Merchant Bar, Puddled Iron & Band, Hoop, Staybolt & Horse Shoe Iron)
SYRACUSE—Crucible Steel Co. of America (Sanderson Bros. Works, Tool Steel). (See Pittsburg, Pa.)
Eckels-Nye Steel Co. (Merchant Steel)
Halcomb Steel Co. (Crucible & High Grade Steel)
TONAWANDA—Buffalo Steel Co. (Bessemer Steel Bars, Agricultural Steel, Angles, Channels, etc.)
TROY—Burden Iron Co. (Bar Iron, Horse Boiler Only & Mule Shoes, Boiler Rivets, Rail Joint Co. (See New York) etc.)
WATERVLIET—Ludlum Steel & Spring Co. (Pure Carbon Crucible Tool Steel)

## OHIO.

BEDFORD—Standard Steel Co. (Blue Polished & Planished Sheet, etc.)
BELLAIRE—Carnegie Steel Co. (See Pittsburg, Pa.)
BRIDGEPORT—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
CAMBRIDGE—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
**AMERICAN STEEL & WIRE CO.** (See Chicago.) (See adv. index, end of book)
Interstate Iron & Steel Co. (See Chicago, Ill.
CANAL DOVER—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Dover Forge & Iron Co. (Iron Forging, Billets, Charcoal Blooms, Iron Sheet Bars, Charcoal Iron Tin Plate Bars, etc)
CANTON—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
**BERGER MFG. CO., THE (Sheet** Iron & Steel, etc.). (See adv. index, end of book)
Canton Sheet Steel Co. ("Winir" Black & Galvanized Steel Sheets, Pickled Steel Sheets, etc.)
**Carnahan Tin Plate & Sheet Co. (Tin & Terne Plate & Sheet Steel for Tinning, etc.)**
United Steel Co. (Vanadium & Basic Open Hearth Billets, Blooms, Slabs & Bars, Skelp, Universal Mill Plates & Sheet Bars)
CINCINNATI—Cincinnati Horse Shoe & Iron Co. (Horse Shoes & Bar Iron). Works, Hooven, O.
CLEVELAND—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
American Steel & Wire Co. (See Chicago, Ill.)
Cleveland Hardware Co. (Manufacture for their Own Consumption)
Cleveland Steel Co. (Light Steel Plates & Sheets, etc.)
Empire Rolling Mill Co. (Iron & Steel Bar)
Lake Erie Iron Co. (Bar Iron, Bolts, Nuts, etc.)
Otis Steel Co. (Open Hearth Steel Billets, Blooms, Ingots, Bar, Plates, etc.)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
Union Rolling Mill Co. (Refined Bar Iron; also Bolt, Nut, Rivet & Bridge Iron)
Upson Nut Co. (Basic open Hearth Steel Bars)
CLEVES—Cincinnati Horse Shoe & Iron Co. (See Cincinnati, O.)
COLUMBUS—Carnegie Steel Co. (See Pittsburg, Pa.)
Columbus Steel Co. (Cold Rolled Steel Bars, Sheets, Strips, etc.)
Standard Chain Co. (See Pittsburg, Pa.)
CUYAHOGA FALLS—Falls-Hollow Staybolt Co. (Hollow & Solid Staybolt Bars. Staybolts, etc.)
DRESDEN—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
ELYRIA—Columbia Steel Co. (Cold Rolled Steel Bars, Sheets, Strips, etc.)
Hart Steel Co. (High Carbon Steel Angles & Tubing, Track Spikes, etc.)
IRONTON—Belfont Iron Works Co. (Cut & Wire Nails, Barbed, Plain & Galvanized Wire)
Kelly Nail & Iron Co. (Cut & Wire Nails, Spikes, Staples, Barbed, Plain & Galvanized Wire)
LORAIN—American Steel & Tube Co. (Iron & Steel Sheets, Black Galvanized & Corrugated, Pipe, Tubes, Sheet Bars, Sheet Slabs, Etc.)
National Tube Co. (See Pittsburg, Pa.)
MANSFIELD—National Rolling Mills Co. (High Grade Open Hearth Steel & Iron Sheets)
MASSILLON—Massillon Rolling Mill Co. (Bessemer & Open Hearth Black & Galvanized Sheets)
MARTINS FERRY—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Whitaker-Glessner Co. (See Wheeling, W. Va.)
MIDDLETOWN—American Rolling Mill Co. (Sheet Iron & Steel, Black & Galvanized, etc.)
MINGO JUNCTION—Carnegie Steel Co. (See Pittsburg, Pa.)
NEWARK—Buckeye Rolling Mill Co. (See Steubenville.)
NEW PHILADELPHIA — American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
NILES—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
De Forest Sheet & Tin Plate Co. (Open Hearth Steel Sheets, Shovel & Cutlery Steel, Tin Plate, etc.)
Carnegie Steel Co. (See Pittsburg, Pa.)
Empire Iron & Steel Co. (Wrought Iron & Steel Sheets & Corrugated Sheets)
Thomas Steel Co. (Black & Galvanized Iron & Steel Sheet)
PIQUA—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
PORTSMOUTH—Portsmouth Steel Co. (open Hearth Steel Billets, Slabs, Ingots, Boiler, Light & Heavy Plates, etc.)
SALEM—American Steel & Wire Co. (See Chicago, Ill.)
SHELBY—Ohio Seamless Tube Co. (Seamless Steel Tubing)
STEUBENVILLE—Buckeye Rolling Mill Co. (Light Rails & Track Accessories). Mills: Newark, O.
La Belle Iron Works (Pipe & Tube Mills, Steel Sheet Bar, Steel Skelp, Cut Nails, Spikes, Pig Iron, etc.)
STRUTHERS—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
TOLEDO—Republic Iron & Steel Co. (See Pittsburg, Pa.)
WARREN—Warren Iron & Steel Co. (High Carbon Steel Sheets & Shovel Plate)
WELLSVILLE—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
WOODLAWN—Phillemac Rolling Mills (Bar Iron)
YOUNGSTOWN—Republic Iron & Steel Co. (See Pittsburg, Pa.)
Youngstown Sheet & Tube Co. (Iron & Steel Sheet, Black & Galvanized, Wrought Iron Pipe, Wire Rods, Billets, Muck Bar, Skelp, Pig Iron, etc.)
Youngstown Iron & Steel Co. (Sheet Iron & Steel, Black & Corrugated Roofing & Siding, etc.)
ZANESVILLE—American Rolling Mill Co. (See Middletown, O.)
Mark Mfg. Co. (See Evanston, Ill.)

## OKLAHOMA.

**SAPULPA—Sapulpa Steel & Iron Co. (Iron & Steel Merchant Bars, Horseshoe Bars, etc.)**

## OREGON.

**PORTLAND—Pacific Hardware & Steel Co. (See San Francisco, Cal.)**

## PENNSYLVANIA.

ALIQUIPPA—Crucible Steel Co. of America. (See Pittsburg)
**Jones & Laughlin Steel Co. (See Pittsburg, Pa.)**
**Kidd Bros. & Burger Steel Wire Co. (Steel Wire, Polished Drill Rods, Polished Needle Wire, Black Steel Rods, etc.)**
**Vulcan Crucible Steel Co. (High Grade Crucible & Acid Open Hearth Steel & Forged Products, etc.)**

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ALLENTOWN—American Steel & Wire Co. (See Chicago, Ill.)
ALTOONA—Altoona Iron Mg. Co. (Bar, Hoop, Band & Oval, Half Oval, Round & Scroll)
AMBRIDGE—American Bridge Co. (See Pittsburg, Pa.)
AUBURN—Delaware Seamless Tube Co. (Hollow Seamless Billets, Boiler Tubes, Hollow Staybolt Stock & Seamless Tubing)
AVONMORE—Alcania Co. (See Pittsburg, Pa)
BEAVER FALLS—Ames Shovel & Tool Co. (See Boston, Mass.)
Pittsburg Seamless Tube Co. (Seamless Steel Tubes & Steel Blanks for Mfg. of Steel Tubes)
Union Drawn Steel Co. (Cold Rolled Steel, Cold Drawn & Polished Steel Shafting, etc.)
BIRDSBORO—Brooke, E. & G. Iron Co. (Muck Bar, Skelp Iron & Cut Nails)
BLANDON—Blandon Rolling Mills (See Est. of Simon Seyfert, Reading, Pa.)
BRACKENRIDGE—**ALLEGHENY STEEL** Co. (See Pittsburg, Pa.)
West Penn Steel Co. (Steel Plates & Sheets, Electrical Steel Sheets, Steel Automobile Sheets, Steel Sheet Bars, etc.)
BRADDOCK—American Steel & Wire Co. (See Chicago, Ill.)
Carnegie Steel Co. (See Pittsburg, Pa.)
BRAEBURN—Braeburn Steel Co. (Crucible & Fine Open Hearth Tool Steel, Spring, Hammer & Machinery Steel & Forgings, etc.)
BRIDGEVILLE—Universal Rolling Mill Co. (Bessemer & Open Hearth Steel Shovel, Nail, Tack & Implement Sheets)
BRISTOL—Iron & Steel Products Co. (See Phila., Pa.)
BURNHAM—Logan Iron & Steel Co. (Bar & Staybolt Iron, Iron Angles, Crow Bars, Links & Pins, Drill Rods, etc.) (See Phila., Pa.)
Standard Steel Works (See Phila., Pa.)
BUTLER—Standard Steel Car Co. (See Pittsburg, Pa.)
CANONSBURG — Canonsburg Steel & Iron Works (Sheet Iron & Steel, Tin & Terne Plate, etc.)
Standard Tin Plate Co. (Tin & Terne Plate)
CARNEGIE—Scott Iron & Steel Co. (Merchant Bars)
Superior Steel Co. (See Pittsburg, Pa.)
CATASAUQUA—Bryden Horse Shoe Co. (Horse Shoes & Horse Shoe Bars)
CHESTER — Duplex Metals Co. (Copper & Bronze Clad Steel),
COATESVILLE—Coatesville Rolling Mills Co. (Boiler Tubes)
Lukens Iron & Steel Co. (Open Hearth Billets, Ingots, Slabs, Steel Boiler, Tank & Bridge Plates, Sheared & Universal Plates)
Worth Bros. Co. (Steel Boiler & Tank Plate, Sheared Plates, Boiler Tubes, Skelp, etc.)
COLONA—Colonial Steel Co. (See Pittsburg, Pittsburg Tube Co. (See Pittsburg Pa.)
COLUMBIA—Janson Steel & Iron Co. (Bar Iron & Steel)
Susquehanna Iron Co. (Refined Bar Iron, Wrought Iron Pipe, Skelp & Plate Mills)
CONNELLSVILLE—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Keystone Tube Works (Office: Pittsburg)
Sligo Iron & Steel Co. (Flange & Tank Steel, Bessemer & O. H. Blue Annealed & Wrought Iron Plates & Sheets, Bar Iron)
CONSHOHOCKEN — Longmead Iron Co. (Wrought Iron Pipe & Skelp Iron, etc.)
Wood, Alan Iron & Steel Co. (See Phila., Pa.)
Wood, J. & Bros. Co. (Iron & Steel Sheets & Light Plates, Locomotive Jacket, Corrugated Bath Boiler, Gas Holder, Pickled Blue Annealed Tank & Electrical Sheet Iron & Steel, etc.)
CORRY—McInnes Steel Co. (Ltd.), Hammered Crucible Tool Steel; Also Air Hardening & Oil Tempered Steel
CRUM LYNNE—Vulcan Charcoal Iron & Steel Co. (Tin Plate Bars, Skelp Iron for Boiler Tubes & Charcoal Blooms, etc.)
DANVILLE—Pennsylvania Brake Beam Co. (Special Shapes for Brake Beams, Deck & I Beams)
Reading Iron Co. (See Reading, Pa.)
DONORA—American Steel & Wire Co. (See Chicago, Ill.)
Carnegie Steel Co. (See Pittsburg, Pa.)
DUQUESNE—Carnegie Steel Co. (See Pittsburg, Pa.)
ELLWOOD CITY—National Tube Co. (See Pittsburg, Pa.)
ERIE—United State Horse Shoe Co. Billets & Iron Steel Bars for the Mfr. of Horse Shoes)
ETNA—Spang, Chalfant & Co. (See Pittsburg, Pa.)
GLASSPORT—Pittsburg Steel Co. (See Pittsburg, Pa.)
GREENVILLE—Carnegie Steel Co. (See Pittsburg, Pa.)
National Tube Co. (See Pittsburg, Pa.)
HARRISBURG—Bailey, Chas. L. & Co. (Inc.) (Muck Bar, Cut Nails, etc.)
Central Iron & Steel Co. (Iron & Steel Bridge, Boiler, Tank, Ship & Fire Box Plate, etc.)
Harrisburg Pipe & Pipe Bending Co. (Wrought Iron & Steel Pipe, Open Hearth Steel Billets, Ingots, Skelp, Slabs, Shovel Plate, Sheet Bars, etc.)
Harrisburg Rolling Mill Co. (Refined Merchant Bars, Skelp, etc.)
Lalance & Grosjean Mfg. Co. (See New York City)
Lucknow Iron & Steel Co. (Charcoal Blooms all kinds of Iron & Steel Plates, Bar Iron, Bands, Angles, etc.)
HAYS—Monongahela Iron & Steel Co. (See Pittsburg, Pa.)
HAZLETON—Union Sheet & Tin Plate Co. (See Pittsburg, Pa.)
HOLLIDAYSBURG—Iron & Steel Products Co. (See Phila., Pa.)
HOMESTEAD—Carnegie Steel Co. (See Pittsburg, Pa.)
HOOPERSTON—Hoopes & Townsend Co. (See Phila., Pa.)
HOPE CHURCH—(See Hays, Pa.)
HYDE PARK—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
JOHNSTOWN—Cambria Steel Co. (Steel Beams, Bars, Angles, Channels, Tees, Cold Rolled Steel, etc.)
Lorain Steel Co. (Light Rails & Street Ry. Track Materials)
KITTANNING—Kittanning Iron & Steel Mfg. Co. (Muck Bar)
LANCASTER—Penn. Iron Co. (Bar Iron, Bolts, Nuts, etc.)
LATROBE—Vanadium Alloys Steel Co. (High Speed & Vanadium Steel)
LEBANON—American Iron & Steel Mfg. Co. (Merchant Bar Iron & Steel, Bolts, Nuts, Washers, Turnbuckles, Lag Screws, etc.)
Iron & Steel Products Co. (See Phila., Pa.)
Lebanon Valley Iron & Steel Co. (Bar Iron & Muck & Scrap Bar)
Weimer Chain & Iron Co., Mfrs. (Chains, etc.)
LEECHBURG—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
McKEESPORT—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Firth-Sterling Steel Co. ("Blue Chip" Fine Crucible Tool Steel) (See also Glesboro, Manor, D. C.)
McKeesport Tin Plate Co. (Tin Plate & Black Plate for Tinning). Works, Port Vue, Pa.
National Tube Co. (See Pittsburg, Pa.)
McKEES ROCKS—Lockhart Iron & Steel Co. (See Pittsburg, Pa.)
MIDDLETOWN—National Tube Co. (See Pittsburg, Pa.)
MILESBURG—McCoy-Linn Iron Co. (Bar Iron, Wire, Wire Rods, Chains, etc.)
MILTON—American Car & Foundry Co. (Merchants Bar Iron) (See St. Louis, Mo.)
Godcharles, F. A. Co. (Muck Bar, Cut Nails & Spikes)
Milton Mfg. Co. (Merchant Bar Iron, Bolts, Nuts, Rivets, etc.)
MONACA—Colonial Steel Co. (See Pittsburg Pa.)
Pittsburg Tool Steel Wire Co. (Drawn Tool Steel for Twist Drills, Taps, etc.)
MONONGAHELA—Liggett Spring & Axle Co (Carriage & Wagon Axles & Springs)
MONESSEN—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Carnegie Steel Co. (See Pittsburg, Pa.)
Page Woven Wire Fence Co. (See Adrian, Mich.)
Pittsburg Steel Co. (See Pittsburg, Pa.)
Seamless Tube Co. of America (See Pittsburg, Pa.)
NEW BRIGHTON—Townsend, C. C. & E. P. (Steel Wire, Bolts, Nuts & Nails, etc.)
NEW CASTLE—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
American Steel & Wire Co. (See Chicago, Ill.)
Carnegie Steel Co. (See Pittsburg, Pa.)
Elliott, Blair Steel Co. (Bright Cold Rolled Strip Steel, etc.)
New Castle Forg e& Bolt Co. (Product all consumed by the Company; Mfrs. Bolts, Chains, etc.)
NEW KENSINGTON—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
NORTHUMBERLAND—Van Alen & Co. (Muck Bar Iron & Iron & Steel, Cut Nails & Spikes, etc.)
PARKESBURG—Parkesburg Iron Co. (Charcoal Boiler Tube, Iron Skelp)
PENCOYD—American Bridge Co. (Steel Beams). (See Pittsburg, Pa.; also Phila., Pa.)
PHILADELPHIA—American Bridge Co. (Steel Beams, Angles, Channels, Tees, Zees, Bar Steel, etc.). (See also Pittsburg, Pa.)
Davis Bros. (Bar Iron, Angle Iron Up to 2 Inches, Spikes, etc.), 29th & Bristol
Disston, Henry & Sons, Inc. (Tool & Sheet Steel, Cold Rolled & Cold Drawn Steel, etc.), Tacony
Gaulbert & Caskey (Merchants Bar Iron, etc.), N. American & York
Hoopes & Townsend Co. (Bar Iron & Steel Bolts, Rivets, Rods, etc.), 1330 Buttonwood; Works also at Hooperstown, Pa.
Hughes & Patterson (Bar Iron Specialties & Skelp Iron, Bands, Hoops & Rods)
Illingworth, Jno. Steel Co. (Crucible, Hammerer & Rerolled Steel Bars & Sheets for Tools, Saws, Knives & Files; also Rerolled Swedish & Norway Iron; also Rerolled & Hammered Open Hearth Steel)
Ivins, Ellwood Tube Works (Seamless Drawn Steel Tubes), Oak Lane Sta.
Logan Iron & Steel Co. (Bar & Staybolt Iron, Iron Angles, Crow Bars, Links & Pins, Drill Rods, etc.), North American bldg. Works: Burnham, Pa.
Maryland Steel Co. (Bessemer Steel Billets, Blooms, Ingots, Rails & Plates, etc.), Girard bldg. Works, Sparrows Point, Md.
Midvale Steel Co. (Crucible & Open Hearth Steel Ingots, Bar Steel, Billets, Rods, Spring Steel, etc.), Nicetown
Nicetown Plate Washer Co., Nicetown
Penna. Steel Co. (Steel Billets, Blooms, Rails, Angles, Channels, etc., Bar Steel & Railroad Specialties, etc.), 1421 Chestnut. Works: Steelton, Pa.
Philadelphia Steel & Forge Co., Tacony. (See New York)
Phoenix Iron Co. (Open Hearth Steel Ingots, Bars, Acid & Basic Process, Beams, Angles, Channels, Bridge Plates, etc.), 410 Walnut. Works, Phoenixville, Pa.
Standard Steel Works (Open Hearth Steel Ingots, Steel Car & Locomotive Tires, Axles, etc.), Harrison bldg. Works, Burnham, Pa.
Taylor, N. & G. Co. (Steel Sheets & Plates & Tin & Terne Plate Mfrs.). 409 Mariner & Merchant bldg. Mills, Cumberland, Md.
Wood, Alan Iron & Steel Co. (Basic Open Hearth Steel Billets, Slabs, Sheet Bars & Universal Mill Plates, Black & Galvanized Iron & Steel Sheets & Plates, Locomotive Jackets, Bath Boiler, Swede & Norway Sheets, Gas Holder, Corrugated, Pickled & Cold Rolled Sheets, Electrical Iron & Steel, Water Pipe & Light Plates), 1421 Chestnut. Works, Conshohocken, Pa.
PHOENIXVILLE — Phoenix Iron Co. (See Phila., Pa.)
PITTSBURG—Alcania Co. (Tin & Terne Plate & Black Plates for Tinning). Works, Avonmore, Pa.
American Bridge Co. (Structural Steel, Billets, Blooms, Ingots)
**ALLEGHENY STEEL CO. (Open** Hearth Steel Billets, Ingots, Sheet Steel Shovel, Tack & Boiler & Tank Plate, Skept, Sheet Bar, etc.). Farmers' Bank bldg. Works, Brackenbridge, Pa. (See adv. index, end of book)
American Sheet & Tin Plate Co. (Bessemer Open Hearth, Acid & Bastic Sheet Iron & Steel; Black, Planished, Polished, Galvanized & Corrugated, Cold Rolled Tin & Terne Plate, etc.), Frick bldg.
American Steel & Wire Co. (See Chicago, Ill.)

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**Brown & Co. (Inc.) (Tool Steel, Refined Bar & Hammered Iron for Special Purposes), 10th & Duquesne Way**
Byers, A. M. Co. (Inc.) (Wrought Iron Pipe & Iron Skelp & Muck Bar)
**Carbon Steel Co. (Open Hearth Steel, Billets, Blooms, Ingots, Sheared Plates, Universal Rolled Plates, Carbon Chrome Safe Plates, Locomotive, Driving, Car Axles, General Forgings, etc.)**
**Carnegie Steel Co. (Steel Billets & Blooms, Rails, Beams & Structural Shapes, Armor & Boiler Plate, etc.)**
Carter Iron Co. (Iron Bar, Staybolt, Roofing, Chains, Forgings, etc.), Mills: Paden City, W. Va.
Central Tube Co. (Wrought Iron Pipe)
**Colonial Steel Co. (Crucible & Open Hearth Steel in Bars, Sheets, Circular Plates, etc.).** Mills, Colona, Pa.
**Crucible Steel Co. of America (Tool Steel, Merchant Bar Steel, Boiler & Tank Plate, Cold Drawn & Polished Steel Shafting, Cold Rolled Steel & General & Nickel Steel Forgings)**
Dilworth, Porter & Co. (Tie Plates, Floor Plates & Spikes, etc.)
**Follansbee Bros. Co. (Iron & Open Hearth Sheet Steel Sheets, Tin Plate & Black Plates for Tinning)**
Hubbard & Co. (Shovel Plate, Shovels, etc.)
Hussey, Binns Shovel Co. (Crucible Cast Steel Consumed in the Mfr. of Shovels)
**Jones & Laughlin Steel Co. (Steel Billets & Blooms, Beams, Channels, Angles, Tees, Zees, Plates, Bars, Bands, Rails up to 40 lbs., Cold Rolled Shafting & Fittings, Chain, Rivets, Spikes, Forgings, etc.)**
Keystone Tube Works (Pipe & Tube Mills). Works: Connellsville, Pa.
Krovan Steel Co.
Lockhart Iron & Steel Co. (Bar, Bands & Hoops, Angles, Channels & Tees, etc.). (See McKees Rocks, Pa.)
**Monongahela Iron & Steel Co. (Bar Iron,** Muck Bar, Staybolt Iron, Iron Chains, etc.). Mills, Hays, Pa.
**National Tube Co. (Wrought Iron & Steel** Pipe & Boiler Tubes, etc.)
Oliver Iron & Steel Co. (Bar Iron & Steel, Bolts, Nuts, Rivets, Forgings, etc.)
**Pittsburg Cold Rolled Steel Co.**
**Pittsburg Forge & Iron Co. (Merchant Bar** & Staybolt Iron, etc.)
Pittsburg Spring & Steel Co. (Spring Steel all consumed by the Company)
Pittsburg Steel Co. (Steel Billets, Wire, Rods & Nails, Steel Bands & Hoops, Staples, Cotton Ties, Barbed Wire, etc.)
Pittsburg Tube Co. (Bedstead Tubing). Mills, Colona, Pa.
Pope Tin Plate Co. (Black Plates or Sheets for Tinning). Works, Steubenville, O.
Refined Iron & Steel Co. (High Grade Engine, Staybolt, Chain, Bolt & Nut & Cold Rivet Iron)
**Republic Iron & Steel Co. (Bar Iron & Steel, Bolts, Screws, Railroad Spikes, Turnbuckles, Cold Rolled Steel, Angles,** Channels, Tees, etc.)
Russell, J. C. Shovel Co. (Shovel Blanks, all consumed by the Company)
**SCAIFE, WM. B. & SONS CO. (Iron** & Steel Sheet, Black & Galvanized, Bars & Boiler Tank Plates). 221 1st av. (See adv. index, end of book)
Seamless Tube Co. (Seamless Cold Drawn Tubes). Works, Monessen, Pa.
**Sligo Iron & Steel Co. (See Connellsville, Pa.)**
Spang, Chalfant & Co. (Inc.) (Pipe & Tube Mills). Works, Etna, Pa.
Standard Chain Co. (Bar Iron Chains of all kinds, Light Rails, etc.)
**Standard Steel Car Co.** (Steel Cars). Works: Butler, Pa.
Superior Steel Co. (Hot & Cold Rolled Strip Steel). Works, Carnegie, Pa.
**West Leechburg Steel Co. (Hot & Cold** Rolled Strip Steel). Works, West Leechburg, Pa.
**Zug Iron & Steel Co. (Ltd.) (Black & Galvanized Iron & Steel Sheets, Corrugated Sheets, etc.)**
**PORT VUE**—McKeesport Tin Plate Co. (See McKeesport, Pa.)
POTTSTOWN—Glasgow Iron Co. (Muck Bars, Boiler, Tank & Bridge Plates, Boiler Heads, Pipe Flanges, etc.)
**Lessig, Geo. B. Co. (Tack, Nail & Shovel Plate & Puddle Bars, etc.)**
Potts Bros. Iron Co. (Muck Bar, Boiler, Tank, Flue & Pipe Iron)
**POTTSVILLE—Eastern Steel Co. (Steel Beams & Structural Shapes, Bridge Plate, etc.).**
PUNXSUTAWNEY—Clark Steel Hoop Co. (Refined Bar Iron, Steel Bands & Hoops, Horse Shoe Bar, etc.)
RANKIN—Columbia Steel & Shafting Co. (Polished Turned Steel Shafting & Cold Drawn Shapes, etc.)
**READING—American Iron & Steel Mfg. Co. (See Lebanon, Pa.)**
Carpenter Steel Co. (Crucible Tool Steel, Gun, Roller & Machinery Steel, etc.)
Reading Iron Co. (Merchant Bar Iron, Wrought Iron Pipe, Staybolt Iron, etc.)
Seyfert, Sam'l R. & Bro. (Puddled Bars, etc.)
SALTSBURG—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
**SCHUYLKILL HAVEN—Schuylkill Haven** Iron & Steel Co. (Bar Iron & Steel)
**SCOTTDALE**—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
SCRANTON—Scranton Bolt & Nut Co. (Bar Iron, Bolts, Nuts, etc.)
SHARON—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Carnegie Steel Co. (See Pittsburg, Pa.)
Republic Iron & Steel Co. (See Pittsburg, Pa.)
**Sharon Steel Hoop Co.** (Open Hearth Steel Billets, Ingots & Bands & Hoops)
**Wilkes Rolling Mill Co. (Sheet Iron & Steel, Merchant Bar Iron)**
SHARPSBURG—Moorhead Bros. & Co., Inc. (Bar Iron, Boiler Sheet Tank & Skelp Iron & Steel)
SLATINGTON — Slatington Rolling Mill Co. (High Grade Bar Iron, Also Staybolt, Boiler Rivet, Horse Shoe, Angle & Drop Forging Iron, etc.)
SOUTH BETHLEHEM—Bethlehem Steel Co. (Steel Billets & Blooms, Armor Plate Steel Bars, Light Rails, etc.)
**STEELTON—Penna. Steel Co. (See Philadelphia, Pa.)**
VANDERGRIFT—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
WASHINGTON—Jessop Steel Co. (See New York City)
Tyler Tube & Pipe Co. (Charcoal Skelp & Blooms & Lap Welded Boiler Tubes)
WAYNESBURG—Waynesburg Pressed Steel Co.
WEST LEECHBURG—West Leechburg Steel Co. (See Pittsburg, Pa.)
WILLIAMSPORT—Sweet's Steel Co (Merchant Bar Steel, Special Open Hearth, Steel, Machinery Steel, Calking Steel, Soft Steel, etc.)
Williamsport Iron & Nail Co. (Muck Bar Iron, Cut Nails, etc.)
WILSON—Monongahela Tube Co. (See Pittsburg, Pa.)
Morris & Bailey Steel Co. (Cold Rolled Steel Sheets, Strips, etc.)
WYOMING—Wyoming Shovel Works (Steel Sheets & Light Plates & Shovel Mfrs.)
YORK—Susquehanna Iron Co. (See Columbia, Pa.)

## RHODE ISLAND.

PHILLIPSDALE—Washburn Wire Co. (Steel Billets, Steel Wire Rods & Nails, etc.)
PROVIDENCE—Rhode Island Perkins Horse Shoe Co. (Bars for Horse Shoes & Toe Calks)

## TENNESSEE.

BRISTOL—Virginia Coal, Iron & Coke Co. (See Roanoke, Va.)
KNOXVILLE—Knoxville Iron Co. (Merchant Bar Iron, Light Angles, Channels, etc.)

## TEXAS.

FORT WORTH—Texas Rolling Mill Co. (Merchant Bar Iron

## VIRGINIA.

RICHMOND—Old Dominion Iron & Nail Works Co. (Merchant Bar Iron, Car & Bridge Iron, Fish Plates, etc.)
Tredegar Co. (Merchant Bar, Car & Bridge Iron & Fish Plates)
ROANOKE—Virginia Iron, Coal & Coke Co. (Steel Billets & Blooms, Merchant Bar Iron, etc.)

## WASHINGTON.

IRONDALE—Western Steel Corporation. (See Seattle)
SEATTLE—Seattle Steel Co. (Bar Iron, Light T Rails, etc.)
Western Steel Corporation (Basic Open hearth Bars, etc.)
YOUNGSTOWN—Seattle Steel Co. (See Seattle)

## WEST VIRGINIA.

BENWOOD—National Tube Co. (See Pittsburg)
**CHARLESTON—Baldwin** Steel Co. (Rolled & Hammered Crucible Tool Steel, High Speed Steel, etc.)
CHESTER—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
CLARKSBURG—Phillips Sheet & Tin Plate Co. (Black Plates for Tinning & Tin & Terne Plate & Sheet Steel)
HUNTINGTON—West Virginia Rail Co. (Light Rails)
KENOVA—Independent Steel of America (Wire Rods, Nails, etc.)
MORGANTOWN—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
PADEN CITY—Carter Iron Co. (See Pittsburg, Pa.)
PARKERSBURG—Parkersburg Iron & Steel Co. (Sheet Iron & Steel)
WEIRTON—Phillips Sheet & Tin Plate Co. (Polished Sheets, Steel Sheets for Stamped Ware, Stove Pipe, Enameling & Galvanizing Stock, Milk Can & Show Card Stock, Trunk & Tagger's Iron & Tin & Terne Plate Mfrs.)
WHEELING—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Wheeling Corrugating Co. (Whitaker Works) (Iron & Steel Sheet)
**Wheeling Steel & Iron Co. (Steel Billets & Blooms, Iron & Steel Sheets, Skelp, Muck, Bar, Nails, Spikes & Wrought Iron & Steel Pipe)**
Whitaker-Glessner Co. (Sheet Iron & Steel)

## WISCONSIN.

MILWAUKEE—American McKenna Process Co. (Renewed Steel Rails). Works, Joliet, Ill., Kansas City, Kans., & Tremley Point, N. J.
Illinois Steel Co. (See Chicago, Ill.)

# 9754a—Rolling Mills (Knife)

**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

# 9755—Rolls (Adding Machine)

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)
Union Paper & Twine Co., Cleveland, O.
Union Paper & Twine Co. (of Michigan), Detroit, Mich.

# 9756—Rolls (Bending, Hand & Belt Power)

**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

# 9757—Rolls (Bending & Straightening)

Badger State Machine Co., Janesville, Wis.
Bertsch & Co. (Hand or Power for Plates, Sheets, Angles, Angle Iron, etc.), Cambridge City, Ind.
Bethlehem Foundry & Machine Co. (Combined Belt or Hand Power), Front, South Bethlehem, Pa.
Betts Machine Co., Wilmington, Del.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**CANTON FOUNDRY & MACHINE CO.** (Plate), Canton, O. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
Covington Machine Co., Covington, Va.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
Kling Bros., 1304 Fairmount av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Tire** Bending, etc.), Hamilton, O. (See adv. index, end of book)

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**MORGAN ENGINEERING CO. (Plate** Bending, etc.), Alliance, O. (See adv. index & branch offices, end of book)
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.** (Plate), Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Niles Forge & Mfg. Co. (Plate Bending), Niles, O.
Perkins Machine Co. (Hand & Power Bending, Electric), Warren, Mass.
Queen City Punch & Shear Co., Cincinnati, O.
Rock River Machine Co. (Hand & Power), Janesville, Wis.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
United Engineering & Fdy. Co., Farmers' Bank bldg, Pittsburg, Pa.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.
Wilkes Bros. (Plate, etc.), Saginaw, Mich.

## 9758– Rolls (Blue Print)

Continental Rubber Works, Erie, Pa.
Lovell Mfg. Co. (And for Mechanical Work), Erie, Pa.

## 9759– Rolls (Breaker)

Allen, Edgar American Manganese Steel Co. Manganese Steel), 193 Michigan av. Chicago, Ill.

## 9760–Rolls (Chilled Calender)

Bellows Falls Machine Co., Bellows Falls, Vt.
Clark, H. C. & Son Machine Co., Lee, Mass.
Currier, Cyrus & Son, Newark, N. J.
Emerson Mfg. Co., Lawrence, Mass.
Farrel Foundry & Machine Co., Ansonia, Conn.
Garrison, A. Fdy. Co., Pittsburg, Pa.
Holyoke Machine Co. (Chilled Iron, Paper, Cotton & Husk), Holyoke & Worcester, Mass.
Kitson Machine Co., Lowell, Mass.
Lobdell Car Wheel Co., Wilmington, Del.
National Roll & Foundry Co., Avonmore, Pa.
Norwood Engineering Co., Florence, Mass.
Perkins, B. F. & Son (Splined Paper Calender), Holyoke, Mass.
Poole, J. Morton Co., Wilmington, Del.
Pusey & Jones Co., Wilmington, Del.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.

## 9761–Rolls (Copper Printing)

Rome Brass & Copper Co., Rome, N. Y.

## 9762–Rolls (Crimping & Corrugating)

(See also Machinery, Sheet Metal Workers')
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. & CO., 19 Adams,** Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Keene, Geo. C. & Co., Cincinnati, O.
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Robinson, J. M. Mfg. Co., Cincinnati, O.

## 9763– Rolls (Crushing)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Concentrator Co. ("New Century," Geared & Belt Driven), Joplin, Mo.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
Bonnot Company (Clay, etc.), Canton, O.
Buckeye Iron & Brass Works, Dayton, O.
Central Foundry Co., Webb City, Mo.
Chalmers & Williams (For Gold & Silver Ore, etc.), Chicago Heights, Ill.
Colorado Iron Works Co. ("Humphrey"), Denver, Col.
Cresson, Geo. V. Co. ("Buchanan" Plain or Corrugated), Allegheny av. W of 17th, Phila., Pa.
Davis, F. M., Iron Works Co., Denver, Col.
Denver Engineering Works Co., Denver, Colo.
Dillon-Box Iron Works Co., Denver, Colo.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Farrel Foundry & Machine Co., Ansonia, Conn.
French Oil Machinery Co., Piqua, O.
Hallidie Co. (Straight Line Balanced), Spokane, Wash.
Hendy, Joshua, Iron Works (Ore), San Francisco, Cal.
Hoagland's, M. Sons Co., Rockaway, N. J.
Krom Machine Works ("Krom" Cushioned), 170 B'way, New York; Works: Jersey City,
McFarlane Mfg. Co., Denver, Colo. N. J.
McFarlane, Peter, & Sons Iron Works Co. (Horizontal), Denver, Colo.
Marquette, Jno. N., Baltimore, Md.
Mill & Smelter Engineering Co. ("Van Saun", Automatic Truing), 114 Liberty, New York
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.
Montgomery, J. H. Mach'y Co., Denver, Colo.
Nordberg Mfg. Co., Milwaukee, Wis.
Pennsylvania Crusher Co., Stephen Girard bldg, Phila, Pa.
Philadelphia Roll & Machine Co., S 23d & Wash'n av. Phila., Pa.
Platt Iron Works Co., Dayton, O.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
South St. Louis Foundry, St. Louis, Mo.
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Stearns, Roger Mfg. Co., Denver, Colo.
Stedman's Foundry & Mach. W'ks, Aurora, Ind.
Sturtevant Mill Co. (Balanced for Dry & Wet Materials), Boston, Mass.
Traylor Engineering Co., Allentown, Pa.
Wellman-Seaver-Morgan Co., Cleveland, O.

## 9764– Rolls (Dandy)

Bigelow, Cheney Wire Works, Springfield, Mass.
Buchanan & Bolt Wire Co., Holyoke, Mass.
Eastwood Wire Mfg. Co., Belleville, N. J.
Gleeson, Thos. E., East Newark, N. J.
Globe Wire Co., Harrison, N. J.
Smith, C. H. & Co., Springfield, Mass.

## 9765– Rolls (Engravers')

Hoggson & Pettis, New Haven, Conn.

## 9766– Rolls (Flaking)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 9767–Rolls (Forged Steel)

Birmingham Iron Foundry, Derby, Conn.
**TRETHEWEY, SAMUEL & CO.** (Ltd.) (Hardened), 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 9768–Rolls (Forging & Tapering)

Ajax Mfg. Co., 3830 Lakeside av, N E, Cleveland, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

## 9769– Rolls (Grinding)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co. (Wet & Dry), Allegheny av, W of 17th, Phila., Pa.
**CROSSLEY MACHINE CO. (For Rub-**ber Only), State & Monmouth, Trenton, N. J. (See adv. index, end of book)
Elspass Engineering & Mining Machinery Co. ("Triplex"), Denver, Colo.
National Roll & Foundry Co. (Paper, Oil & Flour Mill), Avonmore, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Poole, J. Morton Co. (Paper Mill. etc.), Wilmington, Del.
Sandy Hill Iron & Brass Works (For Paper Mills), Hudson Falls, N. Y.
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

## 9770–Rolls (Hub Band Bending & Truing)

Williams, White & Co., Moline, Ill.

## 9771 Rolls (Jewelers')

Blake & Johnson Co., Waterbury, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Leiman Bros., 62 John, New York
Manville, E. J. Machine Co., Waterbury, Conn.
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 9772– Rolls (Lap Welding)

United Engineering & Foundry Co. (Single & Double for Pipe & Tube Mills), Pittsburg, Pa.

## 9773–Rolls (Leather Pressure)

Barry & Zecher Co., Lancaster, Pa.

## 9774– Rolls (Lime)

Union Iron Works Co., Selma, Ala.

## 9775– Rolls (Live)

**ALLIS-CHALMERS CO. (Also Drives),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Curtis & Co. Mfg. Co. ("Curtis"), St. Louis, Mo.
Southern Engine & Boiler Works (Inc.) (For Saw Mills), Jackson, Miss.
Wheland Machine Works (Steel), Chattanooga, Tenn.

## 9776– Rolls (Map)

Bramen, O. H., Carthage, N. Y.

## 9777– Rolls (Oil Mill)

National Roll & Foundry Co. (Cotton & Linseed), Avonmore, Pa.

## 9777a–Rolls (Plate Bending)

(See Rolls, Bending & Straightening)

## 9778–Rolls (Ribbon Solder)

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

## 9779– Rolls (Rubber)

**BOSTON BELTING CO. ("Forsyth"),** 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co. (Also Rubber Covered), Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Lovell Mfg. Co. (For Laundries, Woolen Mills, Tanneries, etc.), Erie, Pa.
Manhattan Rubber Mfg. Co., 18 Vesey, New York, & Passaic, N. J.
New York Belting & Packing Co. (Rubber Covered), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Republic Rubber Co., Youngstown, O.
Sayen Rubber Co. (Ruber Covered), Hamilton Sq., N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 9780–Rolls (Sand & Chilled)

(See also Machinery, Rolling Mill)
American Roll & Foundry Co. (Sand & Chilled Only), Canton, O.
American Sheet & Tin Plate Co., Roll & Machine Works (Sand Chilled & Semi-Steel), Canton, O.
**BIRDSBORO STEEL FOUNDRY &** Machine Co. (Steel & Chilled), Birdsboro, Pa.
Birmingham Iron Foundry (Sand & Chilled Only), Derby, Conn.
Black-Clawson Co., Hamilton, O.
Blake & Johnson Co. (Hardened Steel & Chilled Iron, Waterbury, Conn.
Centre Foundry & Machine Co. (Sand), Wheeling, W. Va.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Farrel Foundry & Machine Co. (Chilled & Sand), Ansonia, Conn.
**FRASSE, PETER A. & CO. ("Poldi"** Steel), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)

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**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)


**CHILLED and SAND ROLLS**

All sizes, including the largest cast in America

**ROLL LATHES**

**A. Garrison Foundry Co.**

**901 Bingham St. Pittsburgh, Pa.**


Hess Snyder Co. (Sand Only), Massillon, O.
Hubbard Steel Foundry Co. (Steel), East Chicago, Ill.
Hyde Park Foundry & Machine Co. (Sand & Chilled), Hyde Park, Pa., & Pittsburg, Pa.
Lobdell Car Wheel Co. (Sand & Chilled Cast Iron), Wilmington, Del.
Mackintosh, Hemphill & Co. (Steel Only), ft 12th, Pittsburg, Pa.
Massillon Foundry & Mach. Co. ("Massillon"), Massillon, O.
**Mesta Machine Co., Pittsburg, Pa.**
**National Roll & Foundry Co. (Sand, Chilled & Cast Steel), Avonmore, Pa.**
Phila. Roll & Machine Co. (Sand & Chilled), S 23d & Wash'n av, Phila., Pa.
**Pittsburg Steel Foundry (Steel Only), Pittsburg, Pa. Works: Glassport, Pa.**
Poole, J. Morton Co. (Sand & Chilled Cast Iron), Wilmington, Del.
Reading Iron Co., Reading, Pa.
Seaman-Sleeth Co. (Sand & Chilled Only), Pittsburg, Pa.
Townsend Furnace & Machine Shop Co. (Sand, Soft Only), Albany, N. Y.
**TRETHEWEY, SAMUEL & CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co. (Sand Chilled & Semi-Steel), Waterbury, Conn.
West Penn Foundry & Machine Co. (Sand Chilled & Semi-Steel), Avonmore, Pa.
Wheeling Mold & Foundry Co. (Sand & Chilled), Wheeling, W. Va.
Youngstown Foundry & Machine Co. (Sand, Chilled, Semi-Steel), Youngstown, O.

## 9781—Rolls (Strap Reclaiming)

Ajax Mfg. Co., 3830 Lakeside av, N E, Cleveland, O.

## 9782—Rolls (Smoothing Armature Segments, Disks & Sheet Metal Blocks)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)

## 9783— Rolls (Stay)

Lawrence Bros. ("Union," "Faultless," Adjustable), Sterling, Ill.

## 9784—Rolls (Street Sweeper)

Lay, Jos. Co. (Brass, Fibre, Bamboo, Rattan, Hickory, Splints, Steel Wire, etc.), Ridgeville, Ind.

## 9785— Rolls (Suction)

Connersville Blower Co. ("Millspaugh"), Connersville, Ind.
Moore & White Co. (Revolving), 15th & Lehigh av, Phila., Pa.

## 9786—Rolls (Tool, Canvas)

Union Mfg. Co., Columbus, O.

## 9787— Rolls (Typewriter)

Continental Rubber Works, Erie, Pa.
**GOODRICH, B. F. CO. (Rubber),** Akron, O. (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO. (Rubber),** Reade & Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 9788— Rolls (Vacuum)

Farnham Mfg. Co. ("Farnham", for Cylinder & Wet Machines for Paper Mills), Buffalo, N. Y.

## 9789—Rolls (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 9790— Rolls (Wood)

Novelty Turning Co. (For Perforated Music), Norway, Me.
Tatem, J. B. & Son (Lawn Mower & Heavy), Putnam, Conn.

## 9790a—Rolls (Wringer)

(See Rolls, Rubber)

## 9791— Roof Joint

Parker, E. L. -Nimmo Co. ("Reese" Patent, Water Tight, Expanding, etc.), Baltimore, Md.

## 9792—Roof Paving Compound

Powell, M. W. Co. ("Actinolite"), 204 Dearborn, Chicago, Ill.

## 9792a— Roof Scaffold for Repairing Chimneys

**TAYLOR, JAS. L. MFG. CO., Poughkeepsie,** N. Y. (See adv. index, end of book)

## 9793— Roof Snow Guards

**CLASON ARCHITECTURAL METAL** Works ("H. B." & "Clason"), 428 Kinsley av, Providence, R. I. (See adv. index, end of book)

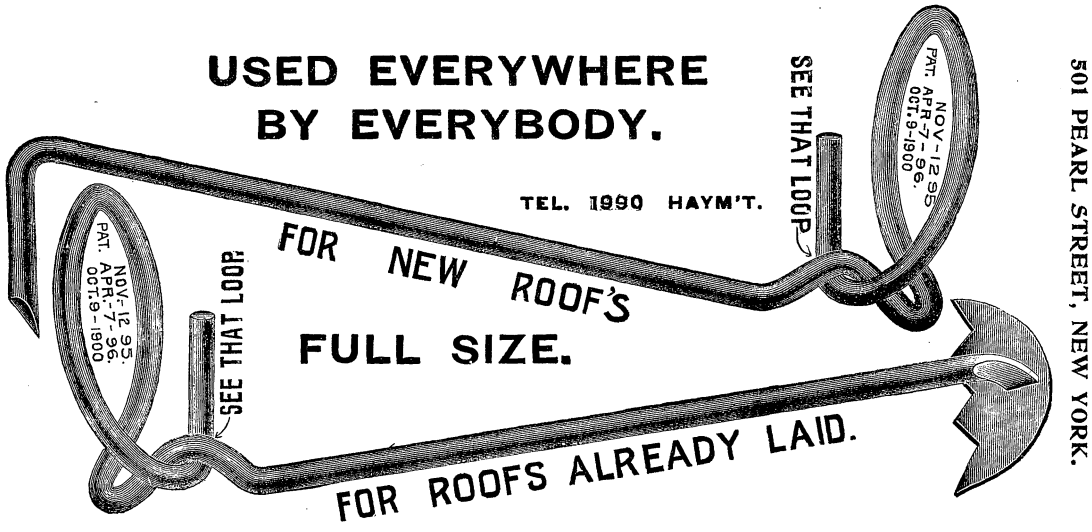

# The Gilman Spiral Snow Guard.

*Absolute Protection Against Snow Slides.*

SAMPLE BY MAIL ON APPLICATION

**USED EVERYWHERE BY EVERYBODY.**

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**GILMAN SNOW-GUARD CO., 103 MERRIMAC ST., BOSTON, MASS.**

C. H. GILMAN, Proprietor


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**CLASON SNOW GUARD**

428 Kinsley av, Providence, R. I. (See adv. index, end of book)

Cleveland Wire Spring Co., Cleveland, O.

Folsom Snow Guard Co., 7 Water, Boston, Mass.

Fulmer, J. H. ("Eagle," "Fulmer," "Eureka"), Nazareth, Pa.

**GILMAN SNOW GUARD**

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Hamblin & Russell Mfg. Co. ("Brace," "Standard"), Worcester, Mass.

**HUNGERFORD, U. T. BRASS & COPper Co.** ("Gilman" Copper & Galvanized Iron), 497 Pearl, New York

Hunt Metal Corner Co. (Continuous). Westboro, Mass.

Peters, F. N. & Bro. ("Never Break"), Newside, Pa.

## Roof Trusses

(See Steel Structural Work)

## 9794—Roofers (Plastic Slate)

Aeolian Plastic Slate Roofing Co. (Tile, Brick & Slate *Paved Roofs*), 163 W 23d, New York

Casmento Roofing Co., 160 W 5th av, New York

Foy, Edw. L. & Co., Baltimore, Md.

Granite Plastic, Slate & Slag Roofing Co., 882 Ryan, Baltimore, Md.

Griffin Roofing Co., 506 W 26th, New York

Laura, John & Co., 160 5th av, New York

Noble, H. & Co., Baltimore, Md.

**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 9795— Roofers, Tinners, Etc.

NOTE—The words in parentheses (Comp., Metal, Slate & Tile) following the names of Roofers, indicate composition, metal, slate and tile roofers. Those not indicated are tin or metal roofers.

(See also Cornices, Galvanized Iron; also Iron and Steel, Corrugated; also Roofing Materials; also Roofing and Siding, Iron and Steel; also Roofing Slate; also Roofing Tile; also *Shingles, Metallic; also Roofing Felt*; also Skylights; also Building and Sheathing Papers; also Roofing Paints; also Cement Roofing)

### ALABAMA.

ALEXANDER CITY—Turner, T. B.
ANNISTON—Anniston Supply Co. (Slate, Metal & Gravel)
ATHENS—Le Grand, H.
BIRMINGHAM—Alabama Metal Roofing Co.
Bain, C. A. Roofing & Cornice Works
Birmingham Supply Co. (Asphalt, Tile, etc.)
Bragan Bros.
East Birmingham Iron Roofing & Cor. Co.
Fulenwider Concrete Co. (Tile)
Hinkle Cornice & Roofing Co.
Holtam Bros.
Merrell, Lee
Spiro Hardware Co.
Wheelock, Geo. F. Co. (Slate & Metal)
BRIERFIELD—McCollum, W. W.
DECATUR—Brown, W. A. & Co. (Slate & Metal)
DEMOPOLIS—Braswell Hardware Co.
EAST BIRMINGHAM—(See Birmingham)
EUFAULA—Folsom, G. W. & Sons
Folsom, C. J. & Co.
Ross, J. L.
GREENVILLE—Dunklin, J. H. & Co.
Johnson, J. F. Hardware Co.
HUNTSVILLE—Dreger, Oscar
MOBILE—Cunningham Hardware Co.
McMillan Bros. Co.
Partridge, C. S. Hardware Co. (Metal & Slate)
Tillson, Walter
White & Benson
MONTGOMERY—Flood, D. F.
Hegenwald, John G.
Kennedy Co.
Wilson, J. B. & Co.
NEW DECATUR—Decatur Cornice & Roofing Co. (Slate & Metal)
Yates, W. C. & Co.
OPELIKA—Benton, J. F.
Galbraith, W. A.
ROANOKE—Neal, F. A.
TROY—Jolly, Mrs. A. E. & Co.
TUSCALOOSA—Robertson, J. R.
TUSCUMBIA—Halsey, W. G. & H. L.
UNION SPRINGS—Anderson, F.
UNIONTOWN—Brown & Moore

### ARIZONA TERRITORY.

GLOBE—McNeil, J. P.
PHOENIX—Burtis, D. H.
Evans, Wm.
PRESCOTT—Brown Bros.
Kiehl, E.
TUCSON—Corbett, W. J. (Iron)
Julian, W. A. Co.
Tucson Hdw. Co.

### ARKANSAS.

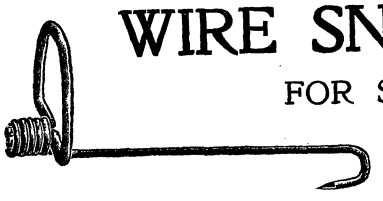
ARGENTA—Gerard, Joseph
BATESVILLE—Baker, G. A.
Rosenthal Hardware Co.
BRINKLEY—Rider, W.
CORNING—Bailey, C. L.
DARDANELLE—Goodier, Joe
FORREST CITY—Hodges, Sam.
FORT SMITH—Fort Smith Cornice & Plumbing Co. (Slate, Metal & Gravel), 16 N 5th
Nicodemus & Price
HELENA—Bulow, Paul
Helena Tin & Plumbing Co.
HOPE—Halliburton, C.
McRae, K. G. Hardware Co.
HOT SPRINGS—Black, W. H. & Co.
Donnelly, E. C.
Williams, Schurder & Co.
JONESBORO—Christian Bros.
LITTLE ROCK—Foster Hardware Co., 301 Main
Haley, Neff & Co.
Ketcher & Ishburn
McCurdell Bros., 522 Center
Robinson, J. K. & Co., 108 E 4th
Simmons & Mayer
MARIANNA—Plummer & Davis
MONTICELLO—McQuiston, L. D. & Co.
MORRILLTON—Kleinschmidt, Louis
Patton, John & Co.
OZARK—Maxey, J. F.
PINE BLUFF—Dellmon, John H., Jr. (Slate & Metal)
Rafferty Bros.
Fox Bros. Hardware Co. (Slate & Metal)
Steck, John H.
TEXARKANA—Hoffman Hardware Co.
Wagner, Louis
WARREN—Gill, M. T.

### CALIFORNIA.

ALAMEDA—Fischer, C. F. Plumbing & Furey, Frank P. Hardware Co.
ANAHEIM—Bennerscheidt, Jos.
Miller, L. E.
ANTIOCH—Christensen, N. E.
ARCATA—Arcata Hardware Co.
BERKELEY—McNamara, J. M.
Sahlman, M. F.
CHICO—Hubbell, L. L.
Newman, J. F.
CLOVERDALE—Williams, O. C.
COLUSA—Mitchell, H. & Son
Roche, Jas.
CONCORD—Pacheco, Chas. Co.
ETNA MILLS—Eller, E. J.
EUREKA—Moore & Cooke Co.
FERNDALE — Kausen & Williams Hardware
FORTUNA—Leach & Smith Co.
FRESNO—Barrett-Hicks Co.
Donahoo, Emmons & Co.
Foin, F. A. & Son
Kutner, Goldstein Co.
McHugh, M. P.
GALT—Orvis & Ritz
GEYSERVILLE—Haupt, Julius
GILROY—Chappell, G. A. & Co.
Robinson Hardware Co.
GRASS VALLEY—Clausen, C.
HALF MOON BAY—Rathbone, C. E.
HANFORD—Foster, Fred.
HAYWARDS—Brunner, H. E., B st.
Dale & Son
Linekin & Allen, Main st
HEALDSBURG—Garrett, A. W.
Gunn & Ferguson
Raabe, M.
IRVINGTON—Hirsch, O. N. & Co.
JACKSON—Garbarini Bros.
LEMORE—Moore, Robert A.
LIVERMORE—Anthony, Mrs. M. S.
Dutcher, N. D.
LODI—Henderson Bros. Co.
LOS ANGELES—Berry B. R., 2803 W. Pico
Biller, J. B., 2953 W. 10th
Bittleson, S., 715 E. Pico
Breithaupt, M., & Co., 204 S. Los Angeles
Campbell, J. A., 802 Temple
Harper & Reynolds Co., 152 N. Main
Hellman, Jas. W., 155 N. Spring
Howe Bros. (Slate & Metal), 554 S. Spring
Irish, H. A., 118 N. Daly
Keays, A. A., 415 S. Los Angeles
Kilts & Jackson, 116 E. 3d
Kirkby, Mark (Tile & Slate)
Lindenbaum, Louis, 806 S. Main
Longley, A. H. & Son, 509 S San Pedro
Maitre, C. J. (Slate & Metal), 906 S. Main
Metzger, Theo., 1044 Byram
Panzer-Hamilton Co. (Metal, Tile, etc.), 131 Rose
Paraffine Paint Co. (Comp.), 313 N. Los Angeles
LOS GATOS—Bogart, A. W.
Lewis, O. & Sons Co.
MADERA—Barcroft, Fred.
Hoffman & Stephenson
MARYSVILLE—Hampton Hardware Co.
White, Cooley & Cutts
MONTEREY—Hanna, N. D.
NAPA—Young Hardware Co.


# WIRE SNOW GUARDS

## FOR SLATE ROOFS



The "H-B" two-piece Guard for old roofs.

MADE OF COPPER AND GALVANIZED WIRE. WRITE FOR PRICES.

ALSO VENTILATORS, SKYLIGHTS, METAL WINDOW FRAMES AND SASH, ETC. ESTIMATES FURNISHED FROM PLANS. SEND US YOUR REQUIREMENTS.




The "CLASON" Guard for new roofs.

**The Clason Architectural Metal Works, - Providence, R. I.**


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OAKLAND—Dalziel, Robert, Jr., 418 18th
De Luchi & Shufelt
Ingram Hardware Co.
Kirk & Co., 305 E 12th
Mackenzie, J. R. D.
Maxwell Hardware Co.
Pierce Hardware Co.
Planer, E., 1229 San Pablo av
Randall & Dinsmore, 1216 Market
Watson Roof Co. (Felt & Gravel)
Yager Sheet Metal Co., 1006 7th
OROVILLE—Kelley, T. J.
Sadowski, C. F.
PASADENA—Buckius, J. J.
Dunn, W. H.
Munger & Munger
Nay, E. O. & Co.
PETALUMA—Schoningh Bros.
PLACERVILLE—Alderson, Edw. L.
Meehan, M. Q.
POMONA—Wilkinson, J. W. & Son
RED BLUFF—Lyon & Garrett
REDDING—Young, James Hdw. Co.
REDLANDS—Dostal, John F.
Kline & Underwood
REDWOOD CITY—Holmquist, R. C.
RIVERSIDE—A'Fleck, J. B.
Copley Bros.
Cunniff, M. T.
Schanck, A. H.
Shiels John & Sons
SACRAMENTO—Blanchard, A. H.
Carlaw, Edward
Jackson, E. B.
Miller & Cahill, 1116 J
Miller, Elder & Co.
Sinclair & Bessey
ST. HELENA—Steves, J. H. Hardware Co.
SALINAS—Anderson & Dougherty
Webster, J. A.
SAN BERNARDINO—Cooley, G. M. Co.
SAN DIEGO—Johnston, J. S. & Sons
Julian, C. H.
Kindler Plbg. Co., 743 6th
Schultheiss Bros. Co.
SAN FRANCISCO—Amsler, C. S., 25 Shotwell
Anderson, Gus, 171 Randall
Appman Cornice Works, 446 7th
Earth Cornice Works, 121 Julian av
Blakeway, John H., 105 Beale
Brekle, Geo. C. Roofing Co., 1626 10th av
California Roofing Co. (Asphaltum), 15th & Market
Cantley, James & Co. (Asphaltum, Felt & Gravel), 1370 Green
Comyns & Nygren, 1731 15th
Conlin & Roberts (Asphalt, Slate & Metal), 410 Natoma
Cook & Co., 11 Mission
Cronan's Eagle Cornice Works (Metal & Slate), 348 Guerrero
De Lano Bros., 70 Spear
Dee Roofing Co. (Felt & Gravel), 2510 Bryant
Eagle Roofing Co., Met Bank bldg
Fenton & Son, 15 Tehama
Ferry Sheet Metal Works, 892 Folsom
Ford & Malott (Asphaltum & Felt Comp.), Mariposa. & Iowa
Forderer Cornice Works (Slate & Metal), 269 Potrero av
General Roofing Mfg. Co., Monad bldg

GILMAN SNOW GUARD
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Globe Sheet Metal Works, 1929 Market
Grant-Leonard Co. (Asbestos), 316 1st
Guilfoy Cornice Works (Slate), 209 8th
Heidt, Wesley, Cornice Works (Slate & Metal), 152 1st
Hurabielle Bros., 775 B'way
Lawson, Jno. C., 771 Guerrero
Lawson Roofing Co. (Composition), 3323
Leiser Bros., 605 McAllister 17th
Mamlar, Nathan, 232 Perry
Morrison & Clark, 791 McAllister
Murphy, Patrick H., 187 Parker av.
Metropolitan Roofing & Pav. Co. (Asphaltum, Felt, Gravel, etc.), Chron-
Olmo, Frank, 3462 Mission icle bldg.
Pacific German Mastic Co., Phelan bldg
Pacific Refining & Roofing Co. (Asphalt Comp., etc.), Monadnock bldg
Paraffine Paint Co. (Asphalt, Felt & Comp.), Merchants' Ex. bldg.
Pioneer Asphaltum & Art. Stone Pav. Co. (Asphaltum), 710 Montg'y
Power & Pike Co., 22 Main
Riddle Bros., 308 7th
Rulofson, A. C., Sheet Metal Works, Monadnock bldg
San Francisco Cornice Wks, Bryant & Dore
San Francisco Roofing Co. (Asphaltum), 1443 Fillmore
Shields, Thos., 571 Mission
Stalder & Hinkelbein, 1513 Polk
Standard Roofing Co. (Asphaltum, Felt & Gravel), Monadnock bldg
Superior Roofing Co. (Asphaltum), Monadnock bldg
Taylor & Pritchard, 22 Sacramento
United Sheet Metal Works, 575 Howard
Von Tagen & Moller, 13 Clay
Watson Roof Co. (Asphaltum, Felt, Gravel, etc.), 110 Sutter
SAN JOSE—Klein, F. & Son
Mangrum & Otter Co. (Slate & Metal)
Stock, Jno. Sons (Slate & Metal)
SAN LEANDRO—Hoerst, E.
Reichsrath, H. L.
SAN LUIS OBISPO—Payne, E. M.
Payne, E. M.
SAN PEDRO—Dakin, H. M.
SAN RAFAEL—Conway, E. H.
Johnson, R. W.
Kelly Bros.
Kinsella, Richard
SANTA ANA—Haywood, J. S.
Hill, S. & Son
McFadden, Jno.
SANTA BARBARA—Booth, R. L.
Ott Hdw. Co.
SANTA CLARA—Dickinson, F. R.
Menzel, R. Hdw. Co.
SANTA CRUZ—Byrne Bros. (Comp, Asphalt, etc.)
Senegrini Bros.
Whitney Bros.
SANTA MARIA—Bryant & Trott Co.
Weber, R.
SANTA MONICA—Bohme, Geo. C.
Middlekauff, C. D.
SANTA ROSA—Demmer, Chas.
Haven & Hawk
Letold Co.
Morrow. E. E. & Son
Potter, J. H. & Son
STOCKTON—Gneckow, E. L.
Mills, J. T., 148 Main
Schuler, Geo. F. (Iron & Tin), Hunter st
VALLEJO—Brownlie, Robt.
Wilder, H. E.
Winchell, C. L. Hardware Co.
VENTURA—Baker, F. W.
Leach, B. A.
VISALIA—Gilbert & Son
WATSONVILLE—Friermuth, P. J. (Est. of)

## COLORADO.

ALAMOSA—Spriestersbach Hardware Co.
ASPEN—Tomkins, L. H. Hardware Co.
BOULDER—Cross & Wells
CANON CITY—Bancroft Hardware Co.
Ellis & Hood
Harding Hardware Co.
COLORADO CITY—Roles & Sutherland
COLORADO SPRINGS—Ball Bros.
Barnes, G. S. & Son
Blake, A. S.
Detcher, Geo. & Son
Heyse, Rudolph
Joyce, E. R.
Lowell-Meservey Hardware Co.
Taylor, Chas E.
CRIPPLE CREEK—Colorado Tin & Sheet Iron Works
DENVER—Ahlers, H. W. (Gravel), 1426 15th,
Anderson, A. J., 1684 Clermont
Angerman, Harry, 207 B'way
Balson, Emil, 1228 Larimer
Bartels, Fred. (Gravel), 1626 Champa
Bates, Paul A.
Berry, W. E. (Gravel), 1224 21st
Bryce, H. & Co., 1811 Araphahoe
Colorado Brick & Supply Co. (Tile), New Century bldg
Colorado Roofing & Paving Co.
Creagor, Thos. W., 505 Jason
Crosta Bros., 1830 Market
Dill, C. C. Roofing Co. (Gravel), 1534 Champa
Dillon, Frank M. (Gravel), 1624 Curtis
Dorrington, W. H. (Metal), 1746 Arapahoe
Fair, C. W. Cornice Works Co. (Metal & Slate)
Five Points Hardware Co., 2643 Welton
Flaherty, P. J.
Fox, David, 1907 Arapahoe
Fredrum, J. W., 1913 Lawrence
Freeman & Bell, 1533 16th,
Freund, Geo. & Co.
Globe Cornice Works (Slate & Tile), 756
Goldberg Bros., 1431 Lawrence B'way
Goldberg, Simon, 2717 W Colfax
Greathead, Fred. C.
Guarantee Roofing Co., 614 17th
Hallack & Howard Lumber Co. (Elaterite & P. & B. Products), Larimer & 7th
Hardesty, R. Mfg. Co., 1809 Market
Heimbecher, C. F. & Co. (Gravel), 515 15th
Hildebrand, E., 634 18th
Hinchman-Renton Fireproofing Co. (Gravel), 1815 Araphoe
Independent Roofing Co. (Gravel), 1631 Champa
Kelley, James M.
Kessler, Fred., 2706 Larimer
Kobel, Carl F., 1358 Larimer
Kummerland & Yoho, 821 W 17th av
Lang, H. G.
Leach, E. L., 1834 Lawrence
Lenhoff, W. S., 1332 27th
Leson, Jacob, 1113 18th
McBride, Charles (Gravel), 2046 Stout
Miller, Henry & Co. (Gravel, Slate, etc.), 1837 Stout
Monarch Mfg. Co., 2662 Walnut
Neveu, Wm. H., 1219 Lawrence
O'Brien Cornice & Furnace Wks.
Perry, Jos. E., 1232 S Pearl
Rinuest, F. T. (Gravel), 1833 Stout
Sabath, G. S.
Sanford's Furnace Co.
Sayre-Newton Lumber Co. (Paroid), 23d & Blake
Schmitt, Wm. C.
Seevers, C. T., 731 W Colfax av
Seubert, J. A. (Gravel), 129 W 4th av
Smith & Gibson, 2810 Downing
Stephenson & Boston, 2442 Washington
Swink, W. L.
Treat, L., 1743 Glenarm
Uckerman, August, 3729 Larimer
Walker, E. L., 1852 Downing
Walter, L. H., 1426 Blake
Weigele Riveted Steel Pipe Works, Larimer, N E c 30th
Western Elaterite Roofing Co. (Elaterite)
Williams, H. B., 1112 California
Young, Jno., 2245 Blake
DURANGO—Graham, F. R.
FLORENCE—Wilson, Geo. Hardware & Supply Co.
FORT COLLINS—Dierck, H. G.
GLENWOOD SPRINGS—Dougan, Wm.
Everett, E. B. & Son
GRAND JUNCTION—Lowe, H. W.
GREELEY—Dye, Robt. L.
McArthur, D. R. & Co.
LA JUNTA — Bomgardner & O'Neil Hardware
Johnson, John Co.
LEADVILLE—Blosfeld, Charles E.
Leadville Hardware Co.
Muller, Jos.
Tompkins, H. H. Hardware Co.
MONTROSE—Lathrop, J. V.
Montrose Hardware Co.
OURAY—Arps Bros. Hardware Co.
PUEBLO—Allen, P. W.
Brantzel, P. H.
Holmes Hardware Co., 302 S Union
Killin, John M. & Co., 206 S Main av
Pueblo Plumber Co., 402 Santa Fe av
SILVER CLIFF—Woodside, Wm.
TRINIDAD—Brown, H. B. Hardware Co.
SILVER CLIFF—Woodside, Wm.
TRINIDAD—Brown, H. B. Hardware Co.

## CONNECTICUT.

ANSONIA—Gaffney, Wm.
Terry, T. P. & Son, 80 Main
Webb, John T.
BERLIN—Damon, H. H.
BRANFORD—Engquest, A. R.
BRIDGEPORT—Beitner, Geo. L., 609 State
Bertilson, Berger, Morehouse
Beutelspacher, Henry (Metal), 235 Middle
Birmingham, John, 273 State
Booth, F. & F. C., Co., 230 Middle
Brady, Thomas T., 359 Benham av
Bridgeport Cornice Works, 227 John
Bullard, W. S. (Gravel, etc.), 636 Water
Burns Co. (Asphalt, etc.), 83 Fairfield av
Curtis, Nathan B., 358 Stratford av
Donning, D. Alex., 173 Stratford av
Dougherty, Andrew J., 137 Kossuth
DROUVE, G. CO., 40 Tulip. (See adv. index, end of book)
Eames, C. S., & Co., 246 Middle
Farmers' Supply & Roofing Co. (Tar, Asbestos & Iron), 256 Middle
Fitzgerald, H. D. Co.

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Gould, H. C. & Co. (Gravel, Slate & Felt), Hebermehl Bros. 304 West av
Horwitz Bros. (Metal)
Hurley, James J., 606 E Main
Kinder, Fred W., 126 Austin
Kirk, Wm. P. Co., 360 Fairfield av
Roberts, Alson E., 20 Crescent av
Lynch & Co. (Tin), 56 Golden Hill
McLevy, Geo. & Sons Co. (Slate), 117 Housatonic av
Manwaring, M. W., 855 E Main
Middlebrook & Goulden, 40 Court
Mills, L. H. (Iron & Metal), 32 Middle
Murphy, John F. (Metal), 33 Union sq
Nonpariel Roofing & Covering Co. (Gravel, Felt & Slag), 636 Water
Reilly, J. Jr., 283 State
Rock, Robert T., 103 South av
Scanlon, John J., 1772 Main
Schreiber, Chris., 220 Evergreen
Schwing, John, Corpn. (Iron & Metal), 863 Wood av
Silliman & Godfrey Co. (Gravel), 1119 Broad
Sturgis, David H. (Gravel & Felt)
Taylor, H. O., 654 Fairfield av
Wakeman S. B. Co., 261 Clinton av
Wheeler & Cook, 119 State

BRISTOL—Roberts & Arnold
White, J. M.

COLCHESTER—Avery, F. T.

COLLINSVILLE—Bidwell, D. W. & Co.

DANBURY—Benjamin, F. C. & Co. (Gravel
Danbury Hardware Co. & Tar)
Duane & Culhane, 10 Keeler
Hoyt, H. W. Co.
Hull, F. A. & Son
Scofield, Theo.

DANIELSON—Keach, E. H. & Co.

DARIEN—Lounsbury, C. W.

DEEP RIVER—Cochrane, A. E.

DERBY—Dickgiesser, Chas. J. & Co.
Kelly, D. H.
Kelly, T. F.
Munson, W. H. (Slate)
Peck, E. W. & Co.

EAST BERLIN—Bowers, E. W.

EAST HARTFORD—Hills, C M.

FAIRFIELD—(See Southport)

FARMINGTON—Parker, Arthur J.
Sneath, Frank H. & Son
Swanston, Frederick P.

GREENWICH—Allen, David K. (Slate & Metal)
Peck, E. S. (Gravel & Tin)
Talbot, Francis J. (Slate)

GROTON—Hempstead, G. R.

HARTFORD—Aitkin, T. P. & Son, 57 Market
Ballonoff, A.
Behner, F. Edw., 1116 Main
Beseman & Bostwick, 44 Ann
Bliss, Edward
Bull, N. B. & Son 257 Asylum
Capitol City Roofing Co., 101 Trumbull
Clark, Merlin F. (Slate, Metal, Gravel & Tile), 19 Center
Clarke, E. W. & Son (Gravel, etc.), 32 Village
Cohen Bros., 1204 Main
Couch, Geo. M. Co., 1702 Main
Cullen & Atkinson Co.
Daly, Lawrence
Enders, John Estate Co.
Fine, M. S., 1152 Main
Ford, J. P. (Slate, Metal & Felt), 373 Asylum
Godbout, Fred J., 74 Allyn
Goldenthal, M., 15 Affleck
Harris, James
Lurie, Aaron, 172 Allyn
McManus, John C. & Sons, 346 Main
Murray, W. & J., 450 Main
Sneath, Frank H. & Son (Slate & Tile), 902 Main
Stelling, F. W., 9 Pawtucket
Webster, Chas. S., 546 Asylum
Wallad, Meyer, 35 Albany

HIGHWOOD—Rice, Henry H.

LAKEVILLE—Hoyt & Baumann

LITCHFIELD—Allen, E. B. Co.
Crutch, George R.
Moraghan, M. V.

MANCHESTER—Emmons, L. S.
Hibbard, W. E.

MERIDEN—Cummings, Geo. R. (Slate)
Dahill, John F., 72 Grove
Griswold, Richmond & Glock Co., 2 W Main
Hartenstein, Albert O.
Holmes, John L., 524 Broad
Lamont, Wm. J.
Putnam & McCrum
Wheeler, F. J., 17 W Main

MIDDLETOWN—Bacon Bros.
Coughlin, W. J.
Flynn, J. Taylor
Hale & Kelsey
Hyland, Michael J. (Slate, Tile & Gravel)
Kennedy, R.
Longworth-Wetherby Co.
Mills, Lyman D.

MILFORD—Bailey, Noyes R.
Ford, S. T. & M. C.

MYSTIC—Hopwood, J. E. & Co.
Newberry, E. H.

NAUGATUCK—Page, J. M. & Co., 175 Church

NEW BRITAIN—Bergeron, Albert H., 41
Brady, Thomas H., 351 Main Cherry
Croll, Louis
Emley, William
Ericson & Johnson
Erwin, J. Edward, 48 Lafayette
Erwin, J. J. & W. T.
Hannon, M. E. & Co. (Gravel, Tar, etc.)
Hinchcliffe, S. L.
Hjerpe, C. A.
Loomis, F. W., & Co., 150 Arch
Pape, Wm. C.
Quinlivan, Thos. J.
Rapelye, George, 250 Main
Stumpp, Fred'k

NEW CANAAN—Simon Bros.

NEW HARTFORD—Smith, Henry T.

NEW HAVEN—Andrea, Harry W.
Batter, Morris, 43 Dixwell av
Bedell, Edwin G., 438 Congress av
Beegan, John B.
Berman, Jos.
Bradley Co., 158 Orange
Bradley, James H. (Felt & Gravel), 163 Farren av
Bristol, W. T., 116 Lamberton
Brown, James W.
Buckingham, Routh Co., 151 Court
Campbell, J. F. A.
Carleton, F. A. (Est. of), 245 George
Chatfield Paper Co. (Gravel & Felt), 300 State
Clark, C. W. & Son (Slate, Tile & Felt), 109 Commerce

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Clerkin & Co., 779 Grand av
Coe & Coleman Co., 970 Chapel
Coffey, John H.
Connecticut Roofing Co.
Connelly, Peter F.
Corbett, T. W., 29 B'way
Coyne Bros. Concrete Co. (Tar, Felt & Gravel), 250 Blatchley av
Curtiss & Pierpont Co., 272 Elm
Dardell, A., 292 George
Day Co.
Denny, W. H., 341 Peck av
Dibble, S. E., 639 Grand av.
Dorman & Cugell, 243 Congress av.
Edgerley, O. M.
Edmondson, Geo. Co., 956 Grand av
Elm City Cornice Works
Elm City Roofing Co.
Fenney, Thos. N.
Flanagan, M. C., 194 Shelton av
Flynn, Wm. E., 291 Congress av
Ford & Keyes Co.
Godfrey, F. A. & A. E., 479 Campbell av.
Graham, Hugh W. H.
Grodinsky, Samuel, 13 Vernon
Heimann, August
Heprich, C., 543 Congress av
Hofmeister, Chas. F.
Howland & Parcells
Igo, John E., 121 Dixwell av
Kannegiesser, Ernst, 109 Asylum
Keegan, J. A. Co.
Kelley, James E. & Son (Gravel), 66 Commerce
Kilmartin, Jas.
Kirschner & Burkle
Kling, Lawrence
Lee, Louis W.
Lettney, Edwin A.
Liddle, Robt.
Lohse, Edward E., 224 Campell av. W. H.
McDonald, Wm. H., 778 Grand av.
Mahn, J. W. & P. C.
Markol, Nathan
Meagher, Thos. F.
Menzies & Menzies, 196 Orange
Miller, Wm. H.
Morrissey, John F.
Neuman, C. U., 529 3d av, W. H.
O'Neill, W. J. & Co.
Perry, Harry M. (Metal), 218 George
Rice, Henry H.
Rourke Bros. Co., 834 Grand av
Ryan, Edw. J. Plumbing Co., 145 State
Sheahan & Groark
Sheehan, Daniel M., 108 Court
Shepard, Richard R.
Shields, Richard J. (Tin & Slate), 81 Webster
Smith, A. J. & Co., 13 Blatchley av
Smith, Chas.
Smith, W. A. T. Heating Co.
Stannard, J. E.
Story, Miner
Teasdale & Marsden
Tierney, Edward R.
Wadsworth, I. N., 247 Elm, W. H.
Warren, Austin T.
Wilkinson, A. B.
Wright, O. S., 780 State

NEW LONDON—Andre, Benj. (Gravel, etc.)
Downey & Brennan, 36 Bradley
Higgins, Jno. F. (Slate, Gravel & Copper), 41 Sherman
Kennedy, Harry J., 398 Bank
McPhartland, Hugh, 81 Golden
Mallory Co., 166 Bank
Murray & Maher, 41 Main
Newman Bros.
Roche & McGuire, 84 Green
Russel, P. W., 206 Bank
Sugrue, T. T., 29 Starr

NEW MILFORD—Beach, C. M.
McMahon, A. H.

NORFOLK—Thurston, W. A.

NORWALK—Clarke, Frank F. (Tar)
Heating & Plumbing Co. (Slate & Tin)
Jones & Hotchkiss Co. (Slate & Metal)
McKeon, F. J., Jr.

NORWICH—Barstow, John P. & Co., 23 Water
Capron, C. P., Norwichtown
Murphy, Chas. O. (Tin & Gravel), 257 Central av
Troland, Jno., 23 W Main
Whitaker, Chas. E. (Gravel)

PORTLAND—Ellsworth, H. W.

PUTNAM—Chandler & Morse

RIDGEFIELD—McGlynn & Whitlock

ROCKVILLE—Kuhnley Plumbing & Heating Co.
Mulligan, John
Zimmerman, Wm.

SALISBURY—Wanger, C. F.

SHELTON—(See Derby)

SOUTHPORT—Wheeler, C. A.

SOUTHINGTON—Hancock, S. G.
Ballou, William M.

SOUTH MANCHESTER—Carrier, E. T.
Ferris Bros.
Moriarty, Hugh
Trotter, T. M.
Wright, Geo. R.

SOUTH NORWALK—(See Norwalk)

STAFFORD SPRINGS—Adams, Anthony
Hodgson, C. P.

STAMFORD—Anthony, R. M., 11 Bedford pl
Broderick, T. H., 86 Gay
Caldwell Bros., 233 Atlantic
Dunn, Jas. F., 272 Atlantic
Dyer, John J., 44 Stillwater av
Feeks & Rutz, 260 Atlantic
McCarty, Jos. M., 134 Canal
Passaro Bros., 227 W Main
Raymond, Robt. W., 213 Main
Scofield, J. Thos., 5 Atlantic
Wilson, James & Co., 36 Atlantic

STRATFORD—Beardsley, F. P. & Co.

SUFFIELD—Brown, F. W.

THOMASTON—Blakeslee, Harry L.

THOMPSONVILLE—Leete, A. R.

TORRINGTON—Agard Hardware Co.
Barber, Willard V.
Morrison, W. H.
Wilcox, Harry H.

UNIONVILLE—Symonds, W. F.

WALLINGFORD—Phelps, F. W., 21 Main
Phelps, L. M.

WATERBURY—Barlow Bros. Co. (Metal & Gravel), 63 Grand
Byrne, C. R. A. (Felt & Gravel), N Main, opp City Mill Lane
Clancy, M. (Est. of), 892 Bank
Disley, W. T. Co. (Gravel & Metal), 276
Donnelly, M. J., 47 Union Bank
Fahy, M. J., 3 West Burton
Garrity, P. H., 342 S Main
Keeler, H. W. Co., 178 S Main
Smith, J. K. (Tile, Slate & Gravel), 7 1st
Thatcher, Chas. Co., 39 Center av
Toucey, Levi H. Co., 171 E Main
Weyand, Hy. Co. (Slate, Metal & Tile), 22 Jeff
Wright, E. E. (Felt, etc.), 115 Bank

WATERTOWN—Hitchcock Hardware Co.
Suffa, Jos.

WEST HAVEN—(See New Haven)

WILLIMANTIC—Bill, J. G., 12 North
Lyman, Hollis H.
Truscott, R. B., 8 Railroad

WINDSOR—Wilbraham, G. F.

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WINDSOR LOCKS—Mooney, J. E. (Slate & Metal)
Pease, Allen Co.
WINSTED—Alvord, J. H., 450 Main
Barrett, Wm. L.
Dardis, J. E.
Holbrook, J. H.
Marsh, Fredk. W. & Son
WOODBURY—Hitchcock, F. F.

## DELAWARE.

BRIDGEVILLE—Layton, H. C.
DOVER—Clendaniel, Geo. G.
Jones, T. K. & Bro. Co.
GEORGETOWN—Faucet, W. A. & Co.
Holson Bros. Hardware Co.
HARRINGTON—Callaway, J. A.
LAUREL—Smith, Samuel T.
MIDDLETOWN—Letherbury, W. S.
Roberts, J. T.
MILFORD—Gray, W. M.
SEAFORD—Burton, W. S.
Williams, P. J.
SMYRNA—Faries, Wm.
Long, Richard
Sisco, C. W.
WILMINGTON — Alexander, Wm. H. (Slate, Gravel, Plastic, Slag & Metal), 511 E 4th
Anderson, Thos. S., 1619 W 3d
Biddle, Samuel (Metal, Gravel, Plastic & Slag), 102 W 8th
Bullock, Isaac S. (Gravel, Plastic, Slag & Metal), 708 Shipley
Cooke, Hollis R., 7th & Tatnall
Davis, E. R., 1704 Lincoln
Delaware Roofing Co. (Gravel, Metal & Plastic), A & Newcastle av
Dewey, Jas. M., 9 W. 30th
Ehart, Wm.
Faulkner, Jas. E. (Slag), 502 M Harrison
Faulkner, W. J. (Gravel, Plastic, Slag & Metal), 428 Queen
Gallaher & Rumer
Guarantee Roofing & Heating Co.
Johnson, J. C. & Son, 622 King
Johnson, Wm. J., 5 W 29th
Le Carpenter, Jno. F., 1607 Penna. av
O'Neill, Jos. I. Co. (Gravel & Plastic), 411 E. 4th
Palmer, Wm. M. (Metal, Gravel & Plastic), 101 E 15th
Reese & Bro., 412 King
Robinson, Harry G. (Metal & Slag), 221 Shipley
Rudolph, Z. Ferris, 108 E. 4th
Schweizer, John T., 525 W Front
Shuster & Layton (Gravel & Plastic), 2202 Penna. av
Smith, Elmer G. (Metal, Gravel & Plastic)
Speer, Geo. I. (Slate, Slag, Gravel & (Plastic), Vandever av & Market st
Stewart, Geo. B. (Metal, Slag, Gravel & Plastic), 119 Tatnall
Stradley, Geo. L., Jr., 607 W. Front
Williams, James, 527 W. Front
Williams, Wm. E. Co. (Metal, Gravel & Plastic), 821 Orange
Wood, J. F. & Co., 301 W Front

## DISTRICT OF COLUMBIA.

WASHINGTON—Albinson, James E., 1802 14th, N W
Bennett, James, 1122 18th, N W
Berry, W. O., 1009 E, N W
Binnix, Thomas, 1224 H, N W
Burns, Theo. A., 137 B, S E
Callan, Jno. F., 108 8th, N E
Casey, Timothy J., 614 L, N W
Castle, W. D., 1218 H, N W
Coberth, Hanes & White, 812 14th, N W
Cook, John H., 1740 Pa. av., N W
Daly & Hopper, 1630 14th, N W
Davis Bros., 416 10th, S W
Dodson & Hodgson, 822 13th, N W
England, Wm. B., 716 H, N E
Englehart, Frank C., 346 M, S W
Fanning, Chas. J. (Slate & Tile), 220 Massachusetts av. N W
Flynn, Maurice B., 621 Pa. av, S E
Fry, Thos. R., 904 8th, S E
Gary, Walter L., 2118 14th, N W
Giclas, Harry J., 113 4½, S W
Giclas, Louis, 1026 6th, N W

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Goetzinger, Leo O., 2104 14th, N W
Grafton & Son, 714 9th, N W
Harrington, John J., 3206 M, N W
Heard, Chas. E., 1007 M, N W
Henshaw, John T., & Co., 736 13th, N W
Huddleston, M. C., & Co. (Slate & Tile), 1218 30th, N W
Jenkins, Guy E., & Co., 633 F, N W
Johnson, Chas. W., Jr., 825 6th, N E
Kane, Stephen H., 2206 Pa. av, N W
Kennedy, John, 1229 7th, N W
Kneas, Gustave, 3122 Brightwood av, N W
Lingebach, Geo. A., 1109 T, N W
Lipp, Carvallis M., 1524 14th, N W
Lyles, Geo. W., 1308 14th, N W
McConaty, Thos. A. (Slate & Tile), 814 I, N E
McCuen, William H. & Co., 1016 Connecticut av, N W
McIntosh, Chas. O., 1206 13th, N W
Marche, Wm. B., 305 E. Capitol
Mathy Co., 1918 Pennsylvania av, N W
Minnis & Martyn, 1501 Fla. av, N W
Mitchell, M. C., Co., 3100 M, N W
Moran, John Co. (Inc.), 2126 Pa av, N W
Pepper, John, 2018 14th, N W
Pierpont, Jno. A., 310 12th, N W
Ray, Wm. J. & Co., 802 M, N W
Rose Bros. (Slag & Metal), 1809 14th N W
St. John, Alex. & Son, 1233 Wisconsin av, N W
Shedd, S. S. & Bro. Co., 432 9th, N W
Shelton, Wm. R., 480 Mass. av., N W
Shughrue, Michael, 431 11th, N W
Simmons, Wm. H. G., 512 K, N W
Simms, Jno. H., 1841 7th, N W
Stansbury, Daniel R., 1306 H, N W
Stockstill, D. W. & Co., 211 12th, N W
Symanoskie, Jos., 701 D, N E
Uber, S. & Son, 215 C. N E
Waple, Wm. & Son, Linden ct, N E
Ward, A. W. & Son, 1408 Pennsylvania av, N W
Warren Bros. Co., 27th, c H, N W
Winters, Jas. H., 742 8th, N W
Wright, R. F. Jr. & Co., Kenilworth
Yeatman, Geo. W., 490 Maryland av, S W

## FLORIDA.

COCOA—Hindle, Wm.
DAYTONA—Nash, Clarence & Son
DE LAND—McDonald, R. D.
Watts & Miller
JACKSONVILLE—Amos, J. B.
Bouis, S. G. & Co.
Hubbard, S. B. Co.
Johnson, C. H. & Co.
McMillan Bros.
Macy & Johnson
Miller, Jno.
KEY WEST—Coster, M. R., 121 Simonton
Page, A. J., Elizabeth c Caroline
OCALA—Marion Hardware Co.
Yonge, R. E.
PALATKA—Griffin, Martin & Co.
Points, J. D. & Co.
PENSACOLA—Avery Hardware & Supply Co.
Vetter, C. B.
ST. AUGUSTINE—Hamblen, C. F. (Slate, Gravel, etc.)
SANFORD—Fernald, Geo. H. Hardware Co.
Hill, A. E.
TALLAHASSEE—Horton, J. H.
Yeager & Bethel Hardware Co.
TAMPA—Berry, Wm. J. & Co.
Howard, Harry
Lau, K. Richard

## GEORGIA.

ACWORTH—Kitchen & Williams
ALBANY—Frank, C. A.
AMERICUS—Schroeder, W. H. R.
ATHENS—Bailey, D. W. J. S.
Holbrook, Wm.
ATLANTA—Allen, C. Co.
Birmingham Supply Co.
Carey, Philip Co.
Newbanks, J. D.
Dowman-Dozier Co. (Slate & Metal), 22 Trinity av
Dunn, W. T.
Franklin Plumbing & Tinning Co., 121 Whitehall
Gouge, C., 74 Ivy
Henry Bros., 308 Decatur
Hunnicutt, J. E. & Co. (Slate & Metal), 56 Peachtree
Jones, W. R. (Slate, Metal & Tile), 98 Walton
Jones, W. W. & Son (Metal & Tile)
Kelley, Alonzo R., 468 Decatur
Kennedy, T. F. (Slate, Tile, Gravel, etc.)
McNinch, J. T., 137 Marietta
Murphy's, C. P. Sons (Granite, etc.), 2 Wall
Russell, C. W., 19 Peters
Shide, A. J. & Co. (Metal), 105 S Forsyth
Smith, O. A. Roofing & Contracting Co.
Southern Roofing Co. (Felt, Gravel, Steel etc.), Sou Ry Belt Line nr Van Winkle's
Southern States Asphalt Roofing Co.
Stanton, H. Co.
Steinhaure, J. F.
Strickland, J. W., 9 Peters
Warlick Sheet Metal Mfg. Co., 60 W Alabama
AUGUSTA—De More, E. A., 112 7th
Miller, R. J
Slusky, David (Slate & Metal), 1009 Broad
BARNESVILLE—Hawkins, R. E. Lee
BRUNSWICK—Reddick, H. S.
CARTERSVILLE—Lumpkin Hardware Co.
CARROLLTON—Campbell, W. S.
CEDARTOWN—Davis, R. D.
Mee, I. T.
COLUMBUS—Everett, H. F.
Gartman, W. D.
Russell, J. C. & Co.
Sheridan, G. W.
DUBLIN—Harp, E. M.
FITZGERALD—McMillan, C. P.
Roush, A. J. & Son
GAINESVILLE—Pruitt-Barrett Wardware Co.
JACKSON—Wagner, J. L. & Sons
LAGRANGE—Paul, Frank
MACON—Gordon, H.
Gormley, J. C.
Ricks, L. C.
MARIETTA—Dobbs Hardware Co.
Schilling, F. E. A.
MILLEDGEVILLE—Hatcher, R. W.
Stanley, Joseph
ROME—Neal, James
Roebuck, W. B.
SAVANNAH—Cox, C. A., 142 Barnard
Hahne, F.
Pacetti's, E. C. Sons, 136 Whitaker
Sanders, C. M., 127 Jefferson
Sanders, J. K., 143 Jefferson
Seckinger & Kane, 151 Whitaker
THOMASVILLE—Watt, James & Bro.
VALDOSTA—Boyd & Presley
Briggs, W. H. Hdw. Co.
Buchanan Zabe
WAYCROSS—Harley, P. N. Hardware Co.
Murray, M. J.
WEST POINT—Dickson, S. R.

## IDAHO.

BOISE—Acme Plumbing & Heating Co.
Carlson-Lusk Hardware Co.
Idaho Hdw. & Plumbing Co.
Loree & Son Hardware Co.
COLDWELL—Hartkopf, Samuel D.
LEWISTON—Hahn, Chas.
MOSCOW—Collins & Orland Hardware Co.

## ILLINOIS.

ADAMS—Bennett, Frank
ALBION—Weaver, Geo. & Son
ALEDO—Detwiler Bros.
Wells Bros.
ALTON—Barrett, Jas. L.
Callaghan, J. P.
Degenhaardt, A. J. (Slate & Metal)
Eckhard Mercantile Co.
Hoffman, H. A.
Mack, E. C. (Gravel)
Pitts & Hammill
Vohs & Doudght
AURORA—Choate & Kreamer
Crampton, J. T.
Hart, Chas. H.
Johns & Brown Co.
Kartheiser, Frank.
Mall, W.
Messenger & Parks Mfg. Co. (Slate & Metal)
Roesch, Geo. E.
Ruteshauser, Wm. F.
Ryan, Henry
Tanner, Henry R.
Thielen, Barney
Usona Mfg. Co.
BARRINGTON—Schroeder, Louis F.
BATAVIA—Burton, Geo.
BAYLIS—Nichols, L. D.
BEARDSTOWN—Dunn, Robert H.
Kell, H. C., Main
BELLEVILLE—Henrich N. H.
Hinzler, Louis
Junck, Charles & Co.
Kell, Adolph
Lebkeucher, L.
Millitzer, Henry
Voelkel Bros.
BENSENVILLE—Koelker, Fred.
BERWYN—Becker, F.
BLOOMINGTON—Butler, Harry
Dillingham, A. J.
Evans, Jno. W. Sons Co. (Felt, etc.)
Evers, Anton

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Holder, Athey Hdw. Co.
Kelly, Peter
Larson, E. A.
McEvoy, J. W.
**Morrison, Frank**
**Muhl, F. C. (Slate & Metal)**
**Parker, Wm. C.**
**Read, G. H. & Bro.**
Rethwisch, Geo. A.
Schueler, Fred'k
**BLUE ISLAND—Claussen, Henry G.**
**Schreiber Bros., Western av & James**
**BOWEN—Walty, Albert**
**BUSHNELL—Griffith, J. L. & Co.**
**Hoover & Bernhill**
Walter, Henry T.
**CAMP POINT—Stecker, C. F.**
**CAIRO—Beno & Williams**
**CANTON—Ainsworth, G. E.**
Byram, Eli
Luker Bros.
Prentice, E. E.
**CARROLLTON—Black, J. M.**
Mahoney, John
Stone, A. H.
**CARTHAGE—Meals, Chas. E.**
**Reyer Fred.**
**Sholl Bros.**
**Taylor & Edwards**
**CENTRALIA—Buehler, Fred & Co.**
Zarback, E. F.
**CHAMPAIGN—Durr, Alvin C.**
Mollett, Chas.
Roberts, Remeo
Terwilliger, A. M. & L. A.
Trevett, Thos. H.
**CHANDLERVILLE—Dorr, Henry**
**CHARLESTON—Pinatel, Chas. C.**
Reasor, Henry
Schriver, George
**CHESTER—Fey Stove & Hardware Co.**
Weinrich, C. F.
**CHICAGO—Acme Roofing Co., 2737 W Congress**
Advance Roofing & Sheet Metal Works, 4821 Cottage Grove av
American Tile & Gravel Roofing Co. (Gravel, Tile, etc.), Tacoma bldg.
Andersen & Armstrong, 3234 Sheffield av
Andersen, F. & Co., 400 Clark av
Anglo-American Roofing Co., 2142 W Chicago av
Asphalt Roofing & Mfg. Co. (Gravel), 2743 N Rockwell
Atlantic Roofing Co., 1756 N Western av
Atlas Roofing Co., 1756 W Madison
B. & B. Tin Shop, 211 Rand
Bald, Benj., 1247 Blue Island av
Bales, O. M., 3962 Cottage Grove av
Balsam, Emil, 1019 Blue Island, av
Barriball, Chas. H. (Felt, Comp. & Gravel), 11444 Indiana av
Barsley, A. L., 2729 Michigan av
Beahan, T. & Son, 1323
Becker's, Ferdinand Asphaltum Ready Roofing Co., 1854 Milwaukee, av
Benz & Rossbach, 399 Dearborn
Bergstrom, A. B., 1307 W 59th
Berry, R., 6242 S Centre av
Biegler, Louis, 439 Dearborn av
Biewer, Wm., 1614 Winneme av
Block, M. & Son, 841 W 12th
Bloomer & Co., 3255 Cottage Grove av
Brady, Joseph E. & Co.
Bremer, H. F. (Slate, Iron, etc.), 2227 Ogden av
Brouty, E. S., 1539 N Western av
Brouty, Henry E., 1814 N California av
Brotzky, Joseph, 285 W 14th
Buckley & Hagan, 1735 W Madison
Buechele, Geo., 2112 N 40th av
Burke, Augustus (Comp.), 813 W Superior
Burke, John (Gravel), 3130 S Halsted
Burke, John, Roofing Co., 26 S Roley
Bussiere, L. E. & Co., 2737 Congress
City Roofing Co., 2040 W North av

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Cline Mfg. Co., 1230 Wabash av
Colby, Edwin L., 1616 Greenleaf av
Columbia Roofing Co., 3236 Sheffield av
Conklin, J. W., 2491 Milwaukee av
Connelly, M. C., 2010 W Monroe
Colver Roofing Co., 11838 Wallace
Colvin, J. N. Roofing Co., 6111 S Halsted
Cornell, Geo. H., 2341 W Vanburen
Cortright Metal Roofing Co., 134 E Van Buren
Crescent Roofing Co. (Comp. & Gravel), 2821 Calumet
Cunnigham, Thomas, 224 W 47th
Dahnel Ernst R., 9363 S Chicago, av
Daly, L. F., 1661 Ogden av
Davis & Gleason, 221 E 35th
De Clark, E. & Co., 91 Randolph
Detwiler, A. E., 4012 Cottage Grove av
Dick Bros., 4051 W 12th
Doering, C. & Son (Inc.), 839 W Lake
Doran, John, 428 S Sangamon
Downing, John, 3107 State
Driever, W. L., 1335 Osgood
Dunbar & Co., 1909 Fulton
Eastern Granite Roofing Co., 98 Jackson boul
Edgewater Tin Shop, 5528 Evanston
Elaborated Ready Roofing Co., 4417 Wentworth
Elliott, J. M., 1458 Blue Island av
Engel's C. E. Sheet Iron Works, 732 S 40th
Engel, Chas. F., 732 S 40th av
Enos, Henry E., 556 E 37th
Epple, Charles A., 1904 W 63rd
Erickson, John T., 4430 La Salle
Evans & Eichner, 85 Lake
Farwell Cornice Co. (Slate & Metal), 3935 Southport av
Federal Process Co., 2000 N 56th av
Fitch Roofing Co. (Slate & Metal), 3738 Cottage Grove av
Foley & Overholt, 13 W Illinois
Ford, Pierce, 359 N Clark
Ford Roofing Co., 2339 La Salle
Forsman, J. A., 341 W 58th
Fowler, Alex. E., 4333 Elston av
Garden City Roofing Co. (Composition Felt, Tar & Gravel), 2507 Lawndale av
Gaylord, George H. Roofing Co. (Slate, Gravel & Metal), 167 Dearborn

GILMAN SNOW GUARD
103 Merrimac, Boston, Mass. (See adv. index, end of book)

Genasco Roofing Co., 108 La Salle
Givens, Wm., 1371 E 55th
Goldberg, Jos., 2952 Johnston av
Green, Harry, 4612 S Lincoln
Griffith Cornice Works, 2441 Indiana av
Gross, Geo. M., 1445 State
Gross Roofing Co., 2038 W Division
Grove Roofing Co., 6655 Cottage Grove av
Gustafson, Edward, 5522 Winona av
Gustafson, K. A., 2114 N Springfield av
Haberle Bros., 4221 Emerald av
Haines, Chas. W., 4738 Lincoln av
Haines & Co., 1933 W Lake
Halla, Frank G., 1114 W Harrison
Hallaren Roofing Co., 6236 Cottage Grove
Hamer, Fred, 938 W North av av
Hansmon, Martin, 2719 Wentworth av
Hartman, Henry & Co., 167 W Division
Heckler, Herman, 1362 E 63d
Herr, Wm., 1625 W 15th
Hillebrand & Grotefield, 3946 N Robey
Holmberg, Chas. & Co., 313 W Michigan
Holpuch Roofing Co. (Felt, Comp. & Gravel), Ashland av c W 21st
Hopkins, H. H. Co., 50 Dearborn
Hopp, Frank, 1053 W 63d
Houston Bros., 2419 Fillmore
Hughes, Peter & Co. (Comp.), 2729 W
Hunter-Clark Co., 1448 Wells Lake
Illinois Roofing & Cornice Co. (Slate, Tile & Metal), 1144 W Kinzie
Jaeger, Peter, 2215 Milwaukee av
James, David & Son, 108 S Clinton
Johnson, J. & Co., 5143 Wentworth av
Johnson, Oscar, 944 W Randolph
Kellogg, M. W. Co., 9 Jackson blvd
Kelly, Henry C., 20 E 44th
Kennealy, Edmund (Comp), 3008 Loomis
Kerstowske Bros., 5139 Justine
Kitzelman & Dilley, 6107 S State
Klein, Bernard V., 1465 Clybourn av
Knickerbocker Roofing & Paving Co., 3962 Cottage Grove av
Knisely Bros. (Slate, Metal & Tile), 2799 5th av
**KNISELY, H. C. CO. (Slate, Tin, Iron & Tile), 506 S Canal. (See adv. index, end of book)**
Koehler, Anthony, 2000 Blue Island av
Koenig, John, 1737 Larrabee
Kovarsky, L. & Co., 911 S Paulina
Kraft, Aug. C., 235 Lake
Krefting, Edw., 622 W Vanburen
Kubick, Chas. F., 9720 S Chicago av
Kyle, Geo. A., 1366 Hudson av
Lachele, enry L., 1511 Carman av
Lakeside Roofing Co., 2419 S Park av
Landquist, Oscar, 144 37th
Lavin Roofing Co. (Felt, Comp. & Gravel), 1065 W 14th
Leitner, M. & Co., 1105 S Western av
Lengacher, Wm. (Slate, Iron, etc.), 2046 Larrabee
Lincoln Roofing Co. (Felt, Comp. & Gravel), 2842 N Clark
Lincoln Waterproof Cloth Co., 164 Dearborn
Livingston, John, 256 35th
Lothamer, Louis W., 1335 W Lake
Lovedale, Orville, 1953 N Park av
Loveland & Pinnow, 2422 W Van Buren
Lozier, Chas. B., 706 120th
Ludes, Felix
Lyman Benj. K., 312 W Michigan
McCarthy, Jos., 1026 N Clark
**McFARLAND, J. C. & CO. (Slate, Metal & Tile), 27th & 5th av. (See adv. index, end of book)**
McKeon, Christopher J. (Comp.), 2220
McKeown, John, 418 Rush Grand av
McMahon, M. J., 1254 S 43d av
McMorran, Edw. E. & Co., 162 N Clinton
Maehler, Paul Co., 203 W Lake
Maguire, James S., 681 Warren av
Marcus Roofing Co., 1241 Blue Island av
Masterton, A. E., 9148 Houston av
Mathiesen, Anton, 220 Grand ave
Mathiesen, E. C., 90 W Ohio
Mealor, J. & Co. (Comp. Felt, Gravel & Metal), 186 Washintgon
Mellish, Hayward Co., 156 Kinzie
Miller, James A. & Bro. (Slate, Metal, Tile, etc.), 114 S Clinton
Millington, Arthur, 1960 S Homan av
Mitchell, Wm., 157 S Desplaines
Monarch Roofing Co., 3413 Ogden av
Moore, Edward Roofing Co., Cham. of Com. bldg
Moore-Maguire Roofing Co., 138 Washington
Morris Roofing Co., 1232 N Robey
Morrissey, M. J. & Co., 4114 Wentworth
Mosheik, Philip, 1108 S Halsted av
Motzer, John J., 2641 N Maplewood av
Murdoch, William Co. (Felt, Comp. & Gravel), 145 La Salle
Narowetz, Louis, 15 W Kinzie
National Roofing Co., 3223 La Salle
Neeley, Edward, 829 Wells
Nelson & Bergstrom, 3727 Janssen av
Newman, Alex, 2940 Wentworth av
Noebling, Wm., 244 W North av
North Chicago Roofing Co. (Felt, Comp. & Gravel), 128 North av
Northwest Ready Roofing Co., 2339 N Western av
Noyes, E. A. (Slate & Metal), 1606 W
Nyman, Aug., 3152 State Lake
O'Brien & Co. (Gravel), 4705 State
O'Donnell & Wilder, 2055 W 12th
Parrott, Wm., 3840 W Huron
Patent Ready Roofing Co., 59 Dearborn
Patent Vulcanite Roofing Co., 1254 S Campbell
Peterkin, John, 316 E Michigan
Powell, M. W. Co. (Flax Felt, Wool Felt & Flat Tile), 204 Dearborn
Powell & Jones (Comp), Monadnock bldg
Prairie, Frank, 3424 State
Progress Roofing Co., 1500 W Division
Purdy & Cauble (Felt, Comp., Gravel & Metal), 666 W 63d
Randolph, Charles W., 3228 Clifton av
Raymaker Roofing Co., 1371 W Lake
Ready Roofing Co., 5239 S Ashland av
Relf, Max A., 859 N Winchester av
Reliable Roofing Co., 919 S California av
Renaud, F. D. & Co. (Comp., Felt, Gravel & Metal), 547 31st
Renaud, J. P. & Co., 3708 5th av
Renaud Roofing Co., 7217 Wentworth
Rice, C. H. & Bro., 1502 E 57th
Richards, David M. Roofing Co. (Comp.), 122 E 31st
Roessler, Albert H., 2037 W North av
Rood, Geo. L., 238 Lake
**Roop & Grupell, 123 Van Buren**
Rosenbaum, H. Roofing Co. (Felt, Comp. & Gravel), 3326 State
Rupp, Thos., 1728 Ogden av
Rysdon, E. A. & Co., 527 W 41st
Sandman, E. W., 5050 W Chicago av
Schmidt, H. & Co. (Inc.), (Slate, Iron, etc.), 344 S Clark
Schmidt, W. C. & Co., 2104 W 12th
Scholl, Theo. F., 3036 Archer av
Schuld, Jacob, 914 S Lincoln
Schuler, J. F., 1600 E Fullerton av

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Schumacher, N. G., 3757 Bosworth av
Schuth Bros., 2330 N Western av
Shaffer, H. R. Co. (Gravel), 145 La Salle
Sheridan Park Tin Shop, 4460 Evanston av
Shinn, Seth L., 1853 Fulton
Slavik, Frank, 3025 W Vanburen
Smith, Chas. H., 22 E 16th
Smith, J. & Co. (Slate & Metal), 2755 W
Smith & Stewart, 5511 S Blvd 22d
Solle Hardware Co., 106 E 31st
South Side Cornice Works (Felt, Comp. & Grand), 4319 Evans av
Standard Roofing Co. (Comp.), 691 N Halsted
Star Roofing Co., 767 N Western av
Steffey, C. A., 2151 N Halsted
Stoops, G. B. & Bro. (Comp., Slate & Metal), 1500 Grand av
Stowell Mfg. Co., 47 Market
Street & Meader, 1640 W Madison
Sykes SteelRoofing Co. (Slate, Tile & Metal), 930 W 19th pl
Thoresen, William, 1960 W North av
Turner, R., 1152 W Lake
United Roofing & Mfg. Co., 204 Dearbon
Universal Cornice & Roofing Co. (Slate, Metal & Tile), 2239 S Troy
Vallas, Wm. H. (Felt, Comp. & Gravel),
Vogt, Anton, 505 Root 2855 W Lake
Voigtman, Fk., Cornice Co. (Slate, Tile & Metal), 324 W Indiana
Wall, C. L. & Co., 217 39th
Warren, Jas. P., 1046 Austin av
Watson, W. D. Co., 1037 W Vanburen
Weil, Herman Roofing Co. (Comp.), 591 N Wells
Weissman & Bernstein Mfg. Co., 1331 Wabash av
West Coast Co., 153 La Salle
Western Roofing & Supply Co., 2357 La Salle
Wheeler, B. W. (Comp.), 307 E 58th
Wheeler, John J., 690 N Halsted
Wheeler & Thomas Roofing Co. (Comp.), 670 N Wells
Wille, C. H., 11834 Wallace
Wilson, Gilbert & Co. (Slate, Iron, etc.), 1307 E 55th
Wilson & Friend, 3136 S Canal
Woodley, Jas. C. & Co., 2256 Lumber
Worthington, Wm. R., 86 Lake
Wright, J. W., 2900 W Taylor
Wyatt, W. E. (Felt, Comp. & Gravel), 4 W Garfield boul
Yeldham, H. J., 950 W Van Buren
Yeske, Robt. H., 919 S Western av
Zenner, John P., 170 N Desplaines

CHICAGO HEIGHTS—Hessler, Fred

CLINTON—Kilough, John
Metz, Herman

COLLINSVILLE—Kluge Bros.
Lang, J. J.
Ruemler, Charles

CRETE—Dierson, Henry W.

CULLOM—Cook, P. J.

DANVILLE—Bireline & Orr (Slate & Metal)
Brant, Edw'd H.
Dietz & Senger
Dobbins & Lahr
Goth, Wm.
King Bros. (Slate & Metal)
Koons, William U.
Penwell, Wm. N.

DECATUR—Adkesson, C. B.
Barringer, Wm. C.
Decatur Cornice & Roofing Co.
Dennis, B. M.
Fahey, M.
Griswold & Groves
Morehouse & Wells Co.

DE KALB—Dunn, John
Sheets & Knodle Co.

DIXON—Ferguson, E. J.
Hoffman, John
Howell, E. N. Hdw. Co.
Slothower, R. J. & Sons

DU QUOIN—Kimmel & Yehling

EAST MOLINE—Aldrich & Potter

EAST ST. LOUIS—Boyles, Frank R. & Co., (Gravel)
Central Roofing & Supply Co. (Gravel)
East St. Louis Cornice Works
Erhardt & Newgent
Haines, O. J. & Son
Hauss, Chas. Stove & Hdw. Co.
Hogan Sheet Metal Works
Jordan, F. B.
Kreipke, H. F.
Musgrave Hdw. Co.
Myers, M. E. & Co.
Riddle, Geo. A. & Co. (Slate & Tile)
Ruck, John
Schaub Hardware & Iron Co., 312 B'way
Stirrat & Hogan
Summers, Cornelius A.

EDINBURG—Ballett, Jacob (Slate, Metal &

EDWARDSVILLE—Bernreuther, Fred Tile)
Kellar, E. A. Co.
Kriege, W. C. & Co.
Tuxhorn Bros. Hdw. Co.

ELGIN—Barcley, D. F.
Bell, Wm.
Davis & Little
Juby, A. C.
Kimball-Dietrich Hdw. Co.
King & Krumnfresz
Meehan, William J.
Ziegler Bros.

ELMHURST—Fiebrandt, Henry
Most, Wm.

ELMWOOD—Baxter, E. C.

EL PASO—Baker, Joseph
Haas, Peer & Sons
Waite, A. H.

EVANSTON—Connor, J. C. Co.
Connor, Thos. E.
Davis, Wm.
Drummond, A. & Co.
Erickson, E. M.
Hedblom, Fred W
Moore, A. H.
Peterson, N. G.

FREEPORT—Carter Bros.
Freeport Hdw. Co.
Genant & Leudeking
Parker, M. L. Co.
Steffen & Seyfarth
Weiss & Co.

GALENA—Asmus, C. A., 194 Main
Kempter, Frank
Meusel, Albert

GALESBURG—Alters & Lindburg
Churchill Hardware Co.
Dopp & Sauter
Galesburg Roofing Co. (Gravel, etc.)
Hvarven, Oscar
Lutz, George
Murphy Bros. & Anderson (Slate, Metal & Tile)
Randleson, J. P.
Rearick, F. H. & Son
Wiborg, C. G.
Willis Mfg. Co. (Slate, Metal & Tile)

GENESEO—Becker, Theo.
Bolte, Hy
Hannon, Kidney & Ryan

GENOA—Sager, Thomas G.

GILLESPIE—Schmidt, F. E. Hardware Co.

GOLDEN—Franzen & Miller

GRANITE CITY—Bristow Hardware & Supply Co.

GRIDLEY—Blumershine, R.
McNaught, C. E.
Walker & Schramm

HAMILTON—Wetzel, L. F.

HAMPSHIRE—McGrath & Widmayer

HARRISBURG—Oliver, W. P.
Setern, R. & Son

HARVEY—Barkmier, H.
Cassell, Isaac & Son
Hilbish, D. H.

HAVANA—Geary, G. W.

HIGHLAND PARK—Purdy, D. C. & Sons
Sullivan, C. P.

HILLSBORO—Brown, Geo. W. (Slate, Comp. & Metal)
McDavid, J. L. & Co.

HINSDALE—Bohlander, Jno. & Sons

HOOPESTON—Werner, E. B. (Slate & Metal)

JACKSONVILLE—Brennan, J. F. (Slate & Metal)
Brady Bros. Hdw. Co.
Gay, Geo. S.
Hearle Bros.
Johnson & Hackett
Smith, H. L. & B. W.

JERSEYVILLE—Cory, J. E.
Daniels, H. S.
Fry, Geo.
Redlich & Son

JOLIET—Meers. Robert
Poehner & Dillman
Schuessler, Albert M.

KANKAKEE—Bregenzer, C. C.
Reuter, Henry (Slate, Iron & Comp.)
Reuter, Nick
Sauer, Mueller
Troup, H. H. & Co. (Felt)

KEWANEE—Butterwick Bros.
Kennish Hardware Co.

KIRKWOOD—Wise, E. F.

KNOXVILLE—Tate, Frank M.

LA GRANGE—Blaser, Jno.
Schwenck, Frank
Stuessy Bros.

LA HARPE—Coulson, Brundage & Co.

LAKE FOREST—O'Neil, Jos. W.
O'Neil, Wm. J.

LA SALLE—Camenish Bros.
Gruenwald, R.
Heilstedt Hardware Co.
Herrcke, Robert T.
Neely, I. K.

LEBANON—Sager, C. H. Hardware Co. (Slate & Metal)
Stoffel Bros.

LEMONT—Friedley, F. T.
Miller, Aug.

LEWISTON—Ewan & Purdy
Grier, Cullen

LEXINGTON—Strayer, Sarah F.

LIBERTY—Austin, Cornelius

LIBERTYVILLE—Eger, H. B.

LINCOLN—Derner, J. P. (Slate & Tin
Reinhardt's M. Sons
Yeager, Edw. W.

LITCHFIELD—Clearwater, N.

LOCKPORT—O'Connell, Wm.

LONDON MILLS—White & Wolford

LYONS—Bittig, Chas.
Waller, Fred.

MACOMB—Campbell, J. W. & Co.

MANITO—Marshall, J. A. & Co.

MARTINSVILLE—McNary, H. V.

MASCOUTAH—Guth, A. H.
Keller, B. R.
Stoffel, J. W.

MASON CITY—Chambers, C. E.

MATTOON—Weber, O. B.
Woodfork, H.

MAYWOOD—Ruden, ohn

MECHANICSBURG—Freeto, G. L.

MELROSE PARK—Wilder, C. H.

MELVIN—Stathers, W.

MENDON—Thompson, Wm.

MENDOTA—Edwards Hardware Co.
Schultz, Bros.
Wittgan, Frank

METROPOLIS—Craig, J. H. & Co.

MILLSTADT—Nolte, Geo.

MOLINE—Berglund, C. A. (Metal)
Hager, Geo.
Hager, Jacob
Hemmingson, C. & A.
Parks, Hugh H.
Reid Co.
Sammel, W. B.
Willis & Sons Co. (Slate & Metal)

MOMENCE—Astle, Charles B.

MONMOUTH—McCullough Hdw. & Impl't Co.
McKelvey & Young
Van Valkenburg & Son

MONTICELLO—Harris, Henry P.

MORRIS—Cronin, D. G.

MORRISON—Robinson, Wm. G.
Sauer, H.
Woods, Oscar

MORRISONVILLE—Wyckoff, C. A.

MORTON—Reuling, Fred.

MOUND CITY—Snyder, E. T.

MOUNT CARMEL—Shurtleff, J. T.

MOUNT CARROLL—Jessen, Otto
Squires, Thos., Hardware Co.

MOUNT STERLING—Breidenband, J.
Briggs, Hersman & Parker
O'Neil, Martin A.

MOUNT VERNON—Hinman & Mathews
Stratton, R. L.

MURPHYSBORO—Campbell, John W.
Stoetzle, John & Bro.

NEWTON—Bruner & Hardcastle

OAK PARK—Kaltenbach, H. W.
Purnell, Enoch
Steger, Peter

OLNEY—Jolly, Weiland & Richardson

ONARGA—Miller, M. K.

OREGON—Gilbert, F. M. & Son
Sheets, B. F. Co.

OTTAWA—Fischer, Fred L.
Jordan, R. C.
Paisley, Wm. C.
Pearson's, Sam'l S. Sons
Refior Hardware Co.
Walter, Jno. (Slate & Metal)

PANA—Brown & Custer (Metal & Comp.)
Haywood, H. L.
Paul, G. A. (Slate & Metal)

PARIS—Bohner Mfg. Co.
Bovell, J. B. (Slate & Metal)
Hannah, A. A., Jr.
Pinnell, W. M.
Wardelman, Fred.

PAXTON—Corbett Bros.

PEKIN—Jaeckel, H. J. & Son
Pekin Hdw. Co.
Splittgerber, Chas. & Son

PEORIA—Aylward, R. C. (Slate & Metal), 916 N Adams

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Bushell, A. A. & Son (Slate & Metal & Gravel), 1317 S Wash'n
Connor, Jas. (Slate, etc.)
Dickson Co., The
Gardelka, Ernest, 510 Steubenville
Hunter & Strehlow (Slate & Metal), 114 S Adams
Johnson, Charles Hardware Co. (Slate & Metal), 2023 S Adams
Johnson Roofing & Furnace Co.
Kavanaugh, P. H., 227 S Madison av
Kowalski & Knupp
Kellerstrass, Robt.
Meyer, F. & Bro. & Co. (Slate & Metal),
Peoria Roofing Co. 1313 S Adams
Russell, H. V., 1110 N Adams
Traeger, Fred'k W. (Slate, Metal & Steel),
Strehlow, Rudolph 719 Main
Weber, Frederick J., 1007 Warner av
Wilson, Robt. L. & Co., 3017 S Adams

PERU—Soedler, Geo. & Sons

PETERSBURG—Clary, W. P.
Deeds, R. J.
Kahn, Marcus
Seese, C. A.
Seese, John H.

PINCKNEYVILLE—Stookey, V. A. & Son

PITTSFIELD—Clayton Hardware Co.
Lloyd Hardware Co.

PONTIAC—Lauth, Joseph
Thomson, Sam

PRINCETON—Cowley, T. C.
Gibbs, H. D. & Sons
Glynn, John & Co.
Priestley Hdw. Co.

QUINCY—Berghofer-Mitchell Co. (Slate, Tile & Metal)
Bickhaus, C. E.
Comstock-Castle Co. (Slate, Tile & Metal)
Goessling, J. Henry
Grant Hardware Co.
Scheipering, Gustav
Schell & Kroner
Schullian, John G.
Schwendeman, George
Thoele, Willis E.
Wilson, W. C. (Slate & Metal)
Winking, George
Wurst, C. H. Co. (Slate & Metal)
Ziener, Alois

ROBINSON—Scott, Geo. M. (Est. of)

ROCK FALLS—Hulett & Son
Taylor, E. U.

ROCKFORD—Drake & Tucker Hdw. Co.
Feabrantz, William
Forest City Hdw. Co.
Hay, Fred. J.
Horder, Alex P. (Slate & Metal)
Hunter, Hdw. Co.
King & Bierck (Slate & Metal)
McGuire Bros. (Slate & Metal)
Martin, A. & Co. (Slate & Metal)
Miller Hdw. Co.
Moscrop, R. J.
Mutimer, Danl. C.
Norriman, E. H. & Co.
Ray-Wharton Hdw. Co.
Rockford Cornice Work (Slate, Tile & Metal)
Rolston, J. B. & Son
Seventh St. Hdw. Co.
Skandia Hdw. Co.
Whitacre, J. E. Mfg. Co.

ROCK ISLAND—Allen, Myers & Co., 1821 2d av
Bertelsen, Jno. (Slate & Metal), 523 22d
Burgess, J. J., & Co.
Krell & Johnston
Lewis Roofing Co. (Asphalt, Gravel & Felt),
Siemon, H. T. 2325½ 3d av
Wilcher, Phil. S.

RUSHVILLE—Griffith Hardware Co.
Parrott & Kerr

SHELBYVILLE—Lantz Bros.

SPRINGFIELD—Armstrong Bros.
Cooper, J. W.
Cosby, William
De Souza, Chas.
Edmands, Fred. E.
Foster, Wm. & Sons Co.
George, Bros.
Ketterer & Walker
Kramp, Frank
Kreigh, E. M. Co.
Lauterbach, Peter
Mansfield, Martin M.
Mathias, R.
Melcher, Oscar A.
Nauman, J. C. (Asbestos & Metal)
Solle, Louis
Wilson, H. K. & Son

STERLING—Davis, Chas. A.
Meister & Cochran
Phillips, J. E. & Co.
Taylor, F. R. & Co. (Slate & Metal)

STREATOR—Alband, John
Howe, L. D. (Slate & Metal)
McCoy, O. H. (Slate & Metal)
Powers & Williams
Reiferschneid, W. & Co.

STAUNTON—Courtney & Mueller
Hopper, Harry H.

SYCAMORE—Haight Bros. Hdw. Co.
Ohlmacher, C. J.
Brower, A. W.

TAYLORVILLE—Eutsminger, A.
Hiller, E. J.

TOULON—Ward, C. D.

TRENTON—Koentz, L. M.

TUSCOLA—Cox, C. E.

UPPER ALTON—Hoffman, J. E.

URBANA—Grant, F. M.
Green, J. D.

VENICE—Jennings & Reeder

VIRDEN—Shumaker, C. C.

VIRGINIA—Lang, F. C.
Meade, Thos.

WAUKEGAN—Bangs, Henry A.
Dodge, W. H.
Hoban, W. &. Son
Lanyon, J. & Son
Melody, Wm. A.
West Coast Mfg. Co.

WENONA—Barrett, Frank

WHITE HALL—Brantzel, M. G.

WILMETTE—Domke, Herman M.
Wolff, A. C.

WOODSTOCK—Early, Robt. G.
Wagner & Cowlin

WYANET—Olds & Hamilton

## INDIANA.

AKRON—Miller, Wm. C.

ALBANY—McCormick Bros. Co. (Sltae, Gravel & Metal)

ALBION—Baughman, D. L. (Asbestos)
Berger, J. D. (Metal & Felt)

ALEXANDRIA—Hoover, O. M.

ANDERSON—Babcock, Robert G.
Carpenter Bros.
Deeds, Reuben
East, D. C. & Son
Epperson, Geo. B.
Ginser, Dainel F.
Jackson, O. A. & Co.
Nichol Hardware Co.
Wagner, M. L.

ANGOLA—Woolford, Walter M.

ATTICA—Powell, Thos. M.

AUBURN—Beuset, J.
Beuset, Louis J.
Conrad, A. H.

AURORA—Langley, A.
McHenry, W. J.
Spaeth, H. P. & Co.

BATESVILLE—Krieger, Wm. & Son
Schrader, H. F. E.

BEDFORD—Ramsey & Bailey

BLOOMINGTON—Davis Hardware Co. (Gravel, Slate & Metal

BLUFFTON—Holthouse, J. B. (Cement)

BOONVILLE—Kinderman's Wm. Sons
Shafer Bros.

BRAZIL—Hadley, J. A.
Hawkins, O. C.
Murray & Jacison

BREMEN—Breunlin, W. G.
Steinick, J. H.

BROOKVILLE—Fieber & Holmes

BROWNSTOWN—Bolles, W. R.

CAMBRIDGE CITY—Hollowell, Jos.

CARLISLE—Risinger, Thos.
Schue, Chas. A.

COLUMBIA CITY—Miller, H. M. & Son
Snellbaker, John

COLUMBUS—Brooks Bros. (Slate & Metal)
Browning, Thos. R.
Everroads, Jesse
Loesch & Williams
Schwartzkopf, J. G. & Son (Slate & Metal)
Straussner & Pennack
Volland, F.

CONNERSVILLE—Cain, Henry
Eddy. Burl
MuCombs, G. W. & Son

COVINGTON—Coffing, T. M.
Hardin & Reddin
Mayer. M., Jr.

CRAWFORDSVILLE—Bappert, A. & Son
Burdin, J. C.
Davis, Frank
Schenk, Henry T.

DECATUR—Brock, John
Leonard. Thomas

DELPHI—Barnett & Mohr

ELKHART—Borneman & Sons
Garvin & Co.
Hamilton, E. P.
Klaer, Frank L.
Theis, W. H.

EVANSVILLE—Anchor Roofing & Paving Co. Gravel), 915 River Front
Anchor Supply Co. (Asphalt & Gravel), 128
Anderson & Veatch U Water
Attinger, Wm. F. (Metal), 309 L 1st
Blemker, L. A. & Son
Bush, E. M. Hardware Co. (Felt & Gravel),
Cook & Adkins 505 Main
Cook & Adkins
Groeninger, J. J. & Co. (Metal), 400 L 2d
International Steel & Iron Const. Co.
Jurgensmeier, Edwt (Slate), 610 E Columbia
Koch, Geo. Sons (Gravel & Metal), 1014 W Penna
Kreipke, J. H. & Co. (Metal), 510 W
Lohse, H. Co. (Metal), 7 2d av Franklin
Mesker, Geo. L. Co. (Iron & Steel)
Meyer, Jos. A. (Metal), 1407 Main
Moran, Mich'l & Son (Metal), 316 U Water
Ohio Valley Roofing Co. (Slate), 318 U 2d
Puder, Fred (Metal), 730 Vine
Ross, J. D.
Schminke, H. Co. (Slate & Metal), 1 2d av
Schminke, H. & Co. (Slate & Metal), 1 2d av
Schmitt, Aug. & Sons (Metal), 607 Main
Schwink, Jos. J., 1105 W Franklin
Sonntag, G. W. (Felt & Gravel), 228 2d av
Thiele, J. A. & Co. (Metal), 108 U 3d
Traupe, Henry
Weigand, J. F.

FAIRMOUNT—Bryan, A. D.
Dale, J. W. (Slate & Metal)

FORT BRANCH—Lawton, F. P.
Stone, W. I.

FORT WAYNE—Schlatter, C. C. & Co.
Seavey Hardware Co.
Welch, J. H. & Sons (Tile, Metal & Asphalt), 190 Calhoun

FRANKLIN—Schafer, Frederick J.
Winters, Jacob

GARY—Duncan, H. A.
Gatz, Chas. L.
Neff, H. J.

GAS CITY—Garthwait Hdw Co.
Young, John

GOSHEN—Hawks Hardware Co.

GOSPORT—Burkett, A. H.
Williams, F. A.

GREENCASTLE—Meltzer, Chas. H.

GREENFIELD—Banks, A. J. & Son (Slate, Tin & Slate

GREENSBURG—Corbett & Rohe (Slate, Metal)
Mendenhall, James E.

HAMMOND—Lundt & Carley Roofing Co.
Minas, E. C. Co.
Mueller, P. H.

HUNTINGBURG—Bamberger, Phil.
Dufendach Hardware Co.
Shurig, Chas.

HUNTINGTON—Ewing, Thomas
Hubbell, M. W.
McCartney, Geo. M.
Miller, Christian
Nave, Samuel S.
Reichenbach & Wickenhiser
Shock, J. W. Co.
Stevens, E. M. (Slate)

INDIANA HARBOR—Anderson, Ellis

INDIANAPOLIS—Abel & Doyle (Slate & Metal), 229 Indian av
Albrecht, Chas. Co., 874 Mass. av
Bakemeyer, Andrew H., 801 Indiana av
Balsley, Lewis H., 657 S Noble
Baxter, Edward M., 1525 Roosvelt av
Beck, Samuel, 604 E Walnut
Bouvy, Julius H., 1118 Prospect
Braughton, McCullough, 727 Mass. av
Brown, Jos. H., 1125 Woodlawn av
Carroll, Jas. P., Broadway & 10th
Covert, Basil E., 724 E Minnesota
Cunningham, Roy, 1123 N West
Cox, Rich'd, 916 E 6th
Crompton, Ebenezer, 908 Ft. Wayne av
Dill, Frank, 216 W New York
Downing, Frank, 636 E Wash'n
Ehrlich, Wm. G., 120 E Maryland
Emmerson, Geo., 1426 W Morris
Enders, Aug. C. F., 1006 E Washington
Enners, Chas. H. & Co., 408 Mass. av
Ensey, Orvis B. (Slate, Gravel & Metal), 1308 N Senate av
Eschenbach, Chas., 1526 S Alabama
Eschenbach, Moritz. 1718 Madison av
Escher, Jos., 821 S East
Escol, Hyman, 868 Virginia av
Evans, Jesse A., 1020 N Beville av
Fehr, Charles C., 710 E 19th

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Fitzwater Bros., Warman av & Michigan
Fleischman, Jos., 638 E 16th
Fort Ray P., 3006 N Illinois
Frand, Edward D., 714 Virginia av
Frick, Julius C. & Co., 2000 Spann av
Friedman, Michael, 2726 N Senate av
Gardner, Jos. (Slate & Metal), 41 Kentucky av
Gauss, Chas. A., 721 Russell av
Gerkin, John E., 3006 N. Illinois
Goebler, Henry, 307 W. 16th
Goldstein & Son, 1016 S Meridian
Hadley, Thos. E., 2410 N Alabama
Harmon & Hall (Asphalt & Gravel), 137 W Wash
Havens, D. F., 36 McLean pl
Hohnan, Harry B., 2604 N Capitol av
Hoover, Ralph P., 4031 S Alabama
Horton, Benj. F., 1214 Blaine av
Husted, Henry S., 1620 E Wash'n
Humphreys & Sargent (Slate & Metal), 124 E. Court
Jacobs, Wm., 1917 W. Wash'n
Kalb, John, 910 E. 20th
Kramer, Chas. N., 365 S Meridian
Lauck, Jno., & Sons, 1004 S. Meridian
Laut, H. W., & Co., 630 Fletcher av
Lavery, Thos. R., 601 N Keystone av
Lieberman, Louis, 616 S. West
Long, Wm. T., 421 E 18th
McCain, Jos. C., 555 Arbor
McCready, Benj. F., 935 Ft. Wayne av
Maier, Charles, 2104 W. Michigan
Messmer, Edward W., 1025 Madison av
Miller, Wm. (Asphaltum), 245 Virginia av
Nahre, Richard, 22 N Ritter av
Neiburger, 630 E Washington
Newhouse, Azariah, 2426 N Olney
Nickbarg, Samuel, 1303 Madison av
Off, Christian & Co. (Slate & Metal), 5 N, Jersey City
Powell, Geo., 335 Virginia av
Price, Edward S., 2033 N Senate
Prunk, Frank H., 307 W Washington
Quack Bros., 1150 Spruce
Reeder, Ralph, R., 312 E 16th
Reno, Dennie L., 3501 Roosvelt av
Roland, Herman A., 1412 Kennington
Shepard & Berg, 2864 Clifton
Sheppard, Wm. C., 2946 Clifton
Sherman, Geo. H., 330 N Pine
Sims, James A., Builders' Ex.
Smith, Arthur, 319 Indiana av
Smith, James I., 2513 W Washington av
Smither, H. C., Roofing Co. (Tar, Pitch, Comp., Felt & Gravel), 430 S Meridon
Smither, T. F. (Comp., Asphalt Gravel & Pitch), 332 W Maryland
Smock, Howard A., 439 Mass. av
Steeb, John, 521 Lincoln
Sullivan, Wm. A., 523 N Germania
Symmes, H. H., Co. (Asphalt, Comp., etc.), 144 Kentucky av
Troy Bros., 142 S. Delaware
Turner, Alvin H., 122 E. 24th
Turner, Major W., 8 N Noble
Warly & Dawson (Slate, etc.), 10 N West
Weinland, Albert H. (Slate & Metal), 942 Ft. Wayne av
Willis, Jonathan, 932 Indiana av
Wright, Wm. L., 614 E. Washington
Zimmerman, C., & Sons (Comp., Slate & Metal), 19 S. East

JEFFERSONVILLE—Bennett, Geo. W.
Lindley, Thos. J.
Overholser, H. G.

JONESBORO—Jackson Bros.

KENDALLVILLE—Loomis, Edgar S.
Zern & Bliss

KNIGHTSTOWN—Kennard, F. M.
Verry, George W.

KOKOMO—Armstrong-Landon Co. (Slate & Metal)
Foust, H. A.
Werbe Bros.
Werbe, W. H.

LAFAYETTE—Boyle, D. M.
Co-operative Tin Shop
Dicks, John B. & Son
Howe & Shipley (Slate & Metal), 336 Main
Lehnen & Reitemeier
Neumann, J., Hardware Co.
Reitemeier, F. & Son, 203 Columbia
Sale, A. C.

LAPORTE—Bishop, L. H.
Decker Bros.
Lower's, Jas. Sons
Webber, Hdw. Co.
Wunsch, E.

LAWRENCEBURG—Barrott, E. & Son
Emerson, W. A.
Stuber, F., & Son (Slate & Metal)

LEBANON—Tice & Brown

LIBERTY—Fosdick, F. F.
Shafer, I. E.

LIGONIER—Albright, Earl W.
Cain, Frank

LOGANSPORT—Dilley, C. L. & Co. (Tar & Gravel), 515 Market
Eberlein, C. Augustus (Metal & Slate), 500
Ensfield & Geyer 12th

LOWELL—Burnham Bros.
Death, George M.
Sanders, E. L.

MADISON—Davison, Nellie A. (Mrs.)
Eckert, John Sons
Hoffman, Peter

MARION—Beshore, Chas. (Metal & Slate)
Brown, Williams Co.
Clifford, L. L. & Co.
Curran, F. V. & Son (Gravel & Tar)
Hollinger, M. G. & Co. (Slate & Metal)
Jones, O. L.
Swanger & McClane (Slate, Iron, etc.)

MARTINSVILLE—Lee & McCracken
Lowe, Carleton
Walls, Lee S.

MICHIGAN CITY—Bartholomew & Co. (Slate
Klopsch, Otto & Son
Pfister, Chas.
Staiger Hdw. Co.

MISHAWAKA—Albert & Hunsburger
Distler, Jno. C.
Lang, O. E. & Co.
Scheid, Adolph
Swanger, J. Q., Jr.

MOUNT VERNON—Gronemeir's, S. H. Son

MUNCIE—Campbell, Geo. W.
Cook & Miller
Doyle, Thos. F.
Noland Roofing Co. (Pitch, Gravel, Asphalt, etc.)
Taughmbaugh Co.
Warfel, Wm. H.
Wells, A. T.

NEW ALBANY—Creed, W. B.
Huncilman, R. A.
Miller, Edgar
Plumer & Co.
Walter, John J.

NEW CASTLE—Michael, C. A. & Son

NOBLESVILLE—Clark Supply House (Felt & Steel)
Gibbons, Harry
Longley, W. E.
Michaels, Milton & Son
Thompson, Jacob (Iron & Tin)

NORTH MANCHESTER—Frame, D. & Son
Lockwood, J. B.
Stewart & Noftzger

PERU—Cloud, Levi
Soames, Chas.

PLYMOUTH—Armstrong, H. A.
Elch, Chas. J.

PRINCETON—Daugherty, William E. (Metal)
Hamilton Bros.

RICHMOND—Ireton, Harry C.
Johnson, Peter Co. (Slate, Metal & Gravel)
Johnson, W. N. (Slate & Metal)
Pryor, S. A.
Schultz & Laning, 186 Ft. Wayne av
Thomas, Jas. E.
Whisler, R. P.
Woodhurst, C. R.

RUSHVILLE—Beale, John S. (Slate & Metal)
Clark, M. B.

SEYMOUR—Cordes Hardware Co. (Slate, Tin & Iron)
Frederick, Geo. M. (Slate, Tin & Iron)
Kessler Hardware Co. (Slate & Metal)
Union Hardware Co.

SHELBYVILLE—Brown & Boehning
Griffey, A. G. & Co.
Howard, Lon (Slate)
Pearson, J. C. & S. (Slate)

SHERIDAN—McCarthy, Wm. R.
Scott, Geo. W.

SOUTH BEND—Beyer, John
Folsom, Chas. G. Mfg. Co. (Gravel & Comp.)
Lauber, J. C. & Co.
Meyer, G. E. & Son (Slate & Tin)
Sibley, I. A. (Slate & Tin)
Zeltner Bros.

TERRE HAUTE—Austin Hardware Co.
Bukenhofer, Thos., 1347 Wabash av
Deady, Patrick F.
Dudley, A. W. & Co.
Fenner, S. L. Hardware Co., 1200 Wabash av
Fromme, A., 1701 S 7th
McAdams, John (Slate & Tin), 1409 S 2d
Manion, John (Slate & Tin), 905 Main
Mays, Jas. M. (Concrete)
Moore, Jas. T. & Co. (Slate & Tin), 725 Wabash
Nosler, J. B.
O'Connell, James F.
Smith, C. C. Sons Co. (Slate & Tin), 80
Thomas, John H.
Townley Hardware & Stove Co. (Slate & Metal), 429 Wabash av
Utterback, W. R.

TROY—Lindauer, Anton

UNION CITY—Kerr, John F.
Shank, E. & W. A.

VALPARAISO—Patrick, J. H. & Son

VEVAY—Goldenburg, W. F. (Metal), 412 8th

VINCENNES—Dubois, F. W.
Lauby, C. W.
Smith, N. & Son
Watson, H.

WABASH—Carpenter Bros.
King, McNamee & Hipskind
Lawrence, Russell

WARSAW—Philpott, E. E.

WASHINGTON—Carnahan, M. J. Co.
Gooldy, Wm. H.
Smith & Devine
Hatfield & Palmer Co.

WINCHESTER—Hoffman, D. E. (Slate)
Smith, Geo. W.

## IOWA.

ACKLEY—Carstens Bros.

ALBIA—Barger, C. S.
Duncan & Duncan

ANAMOSA—Scott, J. F.

AUDUBON—Hoover, G. W.

BOONE—Deering, Chris.
Johnson Hdw. Co.
McVay & Anderson
Noland, L. C.
Wheelock Hardware Co.

BURLINGTON—Forney, J. H.
Haffner, Chas.
Hillen, C. F.
Kaut & Kreischbaum
Kriechbaum & Dewein
McMillan, E.
Morrison, Ira S.
Nichols-Shelby Co.
Scott, J. M. & Co.
Woellhaf, Otto J.
Woepking, Theo.

CEDAR RAPIDS—Cashman, N. H.
Ring Bros.
Swab, C. H. & Co.
Wagner, Clinton D.

CENTERVILLE—Goss, Joseph & Son
Peatman, C. A.

CHARITON—Ensley, G. W.

CHARLES CITY—Branend, Frank
Snyder Bros.

CLARENCE—Jons, Henry A.

CLARINDA—Spring, John

CLINTON—Armstrong, C. E. & Co. (Slate, Iron & Tin), 238 5th av
Calnan, W. H.
Dean, M. J. & Co.
Hansen, H. C.
Nootbar, Henry
Stukas, C. E. & Son
Union Roofing & Mfg. Co.
Wulf, Peter C.

COUNCIL BLUFFS—Amy, W. S.
DeVol, P. C. Hardware Co.
Jones, H. R.
Petersen & Schoening Co.
Spenser, F. A. Furnace & Sheet Metal Wks
Strayer, E. C.

CRESCO—Lomas & Farnsworth

CRESTON—Edgerton, E. E.
Patt, Jas. H.

DAVENPORT—Brauch, John C.
Claussen, Reimer & Son
Davis & Wright
Detlefsen, Henry
Hipwell, Chas. G. (Slate, Metal, etc.)
Kuehlcke, Herman
Lerch, A. J. Co.
Reimers, Peter A. (Slate & Metal)
Schebler Bros.
Weidner, Wm. Jr.
Wriedt, E. F. & Son

DECORAH—Rinde & Istad

DENNISON—Roman, J. R. Co.
Watje, John

DES MOINES—Backman Sheet Metal Works
Barric & Son (Asphalt, Slate & Metal)
Caspe, Joseph
Clark, J. D. Co.
Dicks, E. A.
Drake Roofing Co. (Gravel & Slate), 210 5th
Entwistle, G. W.
Fisher, Frank Sheet Metal Works (Metal)
Hermann Sheet Metal Works (Metal, Tile, etc.)
Illsley, E. B.
Kurtz, L. H. Co. (Metal)
McGaffee, J. Frank
Moses, Esick
Nelson, A. V. Co., 600 E Grand av

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Nichols Roofing Co. (Gravel, Composition & Asphalt)
Ruth & Clark
St. John & Barquist Co. (Slate, Gravel, Tin, etc.), 418 8th
Sauer & Son
Schlatter Bros. (Metal)
Sheldon, Geo. W., 811 Locust
Steel Roofing & Stamping Works (Metal)
Thomas Plumbing Co., Inc.
Waldinger, Harry
DUBUQUE—Gruber, W.
Jonas, D. J.
Key City Roofing Co. (Gravel & Asphalt)
Klauer Mfg. Co. (Slate, Tile & Metal), 1351 Iowa
Lally, James
Lyons & Lyons (Slate & Metal), 172 Main
Oswald, Chas. J.
Ris, J. F. & Bro. (Metal), 648 Main
Schlenker, Paul
Van Valkenberg, Wm.
Weber, Bernard
ELDORA—Stauffer, Chas. F.
ELKADER—Brown & Bahr (Gravel)
ESTHERVILLE—Jewell, J. B.
FAIRFIELD—Gaines Bros.
FORT DODGE—Gertner, L.
FORT MADISON—Barbour, E. C.
Brown, W. N.
Cooney, H. C.
GRINNELL—Miles, G. L.
Noah & Utley
HARTLEY—Messer, E. B. & Son
IDA GROVE—Sauer, Martin
INDEPENDENCE—Allen & Simmons
Plane, I. C.
INDIANOLA—Champlin & Son
Farley, Geo. T. & Co.
IOWA CITY—Cochran, M. H.
Maresh Bros. (Slate & Metal)
Miller & Miller
Schuppert & Koudelka
JEFFERSON—Brandon, Geo. F.
KEOKUK—Buss Roofing Co.
Geiger, Aug.
Samuels, J. A. & Son
Seither & Cherry Co.
Vollers, Frank
KNOXVILLE—Ashton, Henry
Little & Co.
LAKE MILLS—Styve Bros.
LE MARS—Edmunds, D. R.
Haas, C. E.
LIVERMORE—Leighton, J. W. (Metal, Rubber Reilly, P. & Son & Gravel)
LYONS—Heupel, Wm.
Magnussen, C.
MALCOLM—Vogel, W. F.
MANCHESTER—Carhart & Nye
Whitney, H. F.
MAQUOKETA—Ringlep Hardware Co.
Trout & Matthais
MARENGO—Dean, J. M.
MARSHALLTOWN—Abbott & Son (Steel & Tin)
Heinz, Edw. (Slate, Steel & Tin)
Huston, M. D.
Mack, Perry L.
Painter, W. R.
Somers, W. T.
MASON CITY—Currie Hardware Co.
Mica Insulating Co. (Gravel)
Miles Hardware Co.
MISSOURI VALLEY—McGavren, J. R.
Wing, H. B.
MORNING SUN—Selzer Bros.
MOUNT PLEASANT—Taft, E. E.
MUSCATINE—Fisch, Geo. B.
Herr, Nicholas
McQuesten & Sawyer Co.
Thompson Bros. Co.
Weierhauser, John
NEW HAMPTON — Garmen & Forkenbrock (Slate & Metal)
NEWTON—Baldwin, F. P.
Failor Bros.
Griebeling, C.
Seeberger, H. A.
NORTHWOOD—Ofthus, J. K.
OELWEIN—Perry, Edson
OSAGE—Kingsbury, J. B. & Co.
Miniger, H. A.
OSKALOOSA—Iowa Mfg. Co.
Watts, Wm. N.
OTTUMWA—Harper & McIntyre Co.
Kohl, Wm.
McCarroll Bros. (Slate & Metal)
McIntyre, W. A. & Co., Main st
Randall, F. M. & Sons
PELLA—Van Zante Bros.
PERRY—Gilbert, T. J.
Miller Bros.
RED OAK—Maloney Bros.
ROCKWELL CITY—Dixon Bros.
SAC CITY—Bauer, W. P.
SHELDON—Chase, H. F.
Messer, E. P. & Son
SIOUX CITY—Eidt, Julius
Falkenhainer, Geo. B.
Hamlett Son & Co.
King, Thos. A.
Orcutt Co., 1012 4th
Snell, J. H. & Co.
SPENCER—Leach & Thompson
STATE CENTER—McMahon, J. L.
Schilling Bros. (Slate, Comp. & Gravel)
TOLEDO—Conant, A. H.
VILLISCA—Banes, J. S.
Jones, F. F.
VINTON—Allen & Gilchrist
Robinson, S.
WAPELLO—Bettler, Chas. L. & Son
WASHINGTON—Stewart, Geo. W.
WATERLOO—Bachtell, Harry
Berkley, C. M.
Cutler Hardware Co.
Julien, Wm.
Kramer, U. G.
Schiel, Jas A.
Waterloo Lumber Co.
WAVERLY—Curtis, S. H. & Co.
WEBSTER CITY—Mason, F. R. & Son
WEST UNION—Hoyt Hardware Co.
WINTERSET—Benge, J. E.
WOODBINE—Young & Sweet

## KANSAS.

ABILENE—Hodge Bros.
Smith, M. J. & Co.
ANTHONY—Costa, Jas. J.
ARGENTINE—Hurley & McDonald Bros.
ARKANSAS CITY—Downing, A. A.
ATCHISON—Klostemeler Bros. Hardware Co. (Slate & Metal)
Klostemeir Bros. (Slate & Metal)
Walcott, H. C. (Slate & Metal)
Weinmann, C. F.
BELOIT—Blood Bros.
CHETOPA—Lyon Bros. (Asbestos, Tin & Rub-
COFFEYVILLE—Ashby, A. F. berold)
Mehl Bros.
Starkwether & Vivers
COLUMBUS—Scovell, H. A.
CONCORDIA—Blair & Everley
Robinson & McCrary
COUNCIL GROVE—Gibson & Clyborne
Snider, J. F.
EL DORADO—Pattison Bros.
Turner, C. L.
EMPORIA—Haynes Hardware Co.
Hoffer & Lepper
Knapp, O. H. P.
Peters Hardware Co.
EUREKA—Stuelpner, Max
Young, S. P.
FORT SCOTT—Congdon, D. C. (Slate & Me-
Crain, C. C. Hardware Co. tal)
Penniman, A. C. & Son (Gravel & Tar)
GALENA—Schmidt Bros.
GARFIELD—Waymire, N. O.
GIRARD—Hertner, H. E. (Slate & Tin)
Hitch, W. S.
GLASCO—Davidson & Co. (General)
GODDARD—Linnebur, H. C.
GREENLEAF—Thinnes Bros.
HIAWATHA—Amann, G. & Son
HUTCHINSON—Carr, E. L.
Nelson Bros.
INDEPENDENC—Schmidt, Peter
Union Sheet Metal Works
Wentworth, F. B.
IOLA—Root, W. H.
Shannon, T. B.
JUNCTION CITY—Barker, E. E.
Muenzenmayer, J. J. & W. F.
KANSAS CITY—Bartlett, F. W. & Son, 538
Cashman, J. F. Minnesota av
Garnier, A., Jr.
Gille & Plank, 619 Kans. av
Hance, P. R., 753 Minn. av
Harmon, George M.
Haskell Bros., 522 Minn av
Hatton Bros., 11 N 10th
Joyce, P. J.
Kasther & Smith, 707 N 6th
Kurz & Neher
Major Bros., 720 Kans. av
Muir Bros. & Thompson
Powers, J. H., 655 Kansas av
Strobel, Theo., 816 Osage
Timmer, Joe
Voss, John W., 1810 N 5th
Walton, Emanuel, 706 Central
Wright, Wm. J., Jr., 743 Minnesota av
Yardley, J. W.
LARNED—Doerr, A. A.
Grinell, Wm.
LAWRENCE—Bennett, F. H.
Broeker, H.
Grayson & Reinisch
Learned, E. R.
Munk, Edw.
O'Brien & Co.
Setterberg, C. H.
LEAVENWORTH—Besel, M.
Hoffman, S. C., 713 Shawnee
Meincke, J., 507 Cherokee
Reyburn, T. T., 5th c Cherokee
Zeitz, G. F., 117 N 3d
LITTLE RIVER—Kaufman, J. D.
McPHERSON—Nelson, F. E.
Sellars, Geo. A.
Sellars, Wm. A.
Street, F. D.
MINNEAPOLIS—Agnew & Son
MITCHELL—Hindes, W. P.
NEWTON—Bachman, Chas. A.
Bergh, Wm. (Slate & Metal)
OBERLIN—Colt, J. B. Hardware Co.
OTTAWA—Elder Mercantile Co. (Asbestos & Tin)
Petit, J. C.
Smith, O. H.
PARSONS—Buckley Hardware Co.
Doughman & Rust
Roush, E. D.
Schultz & Axton
Steele Hardware Co. (Gravel & Comp.)
PHILLIPSBURG—Smith, Theo. & Son
PITTSBURG—Axton, W. L.
Bagley, J. P.
Beasley & Miller (Slate, Metal & Gravel)
Shultz & Axton (Slate, Tile & Metal)
SALINA—Flycht, John J.
McConnell & Wood
Ward, W. J.
TOPEKA—Burnam, Geo. E.
Culver, W. E.
Culver & Bailey
Forbes, D. H., 616 Kansas av
Foucht, J. H., 825 Kans av
Mood Plumbing & Heating Co.
Peterson, A. J., 1109 E 6th av
Seybold, G. E.
Seybold, J. H.
Stanton, S.
Sutherin, Geo. W. & Co.
WICHITA—Acuff, C. M.
Buckley, Fred
Butler, H. R.
Caswell & Hartsell
Dermody Plumbing & Heating Co.
Ketzler, Eugene F.
Reitz, F. J.
WINFIELD—Dixon & McConn
Eastin, H. N.

## KENTUCKY.

ASHLAND—Coburn, S.
Henderson Hardware Co.
Phelps, F. K.
AUBURN—Satterfield, E. W.
AUGUSTA—McKibben, Bert.
BARDSTOWN—Hart, M. S.
McGills, Will
BELLEVUE—Schaufele, William
Wagenlander, August
BEREA—Lengfellner, Henry
BOWLING GREEN—Cartwright, J. F.
McNamara, Jas.
CAMPBELLSVILLE—Burress, J. H.
Hard & Rice
CARLISLE—Powell, J. G.
CARROLLTON—Burckle, W. P.
CATLETTSBURG—Ely, Charles W.
Mims, A. Co.
Williamson Hardware Co.
COVINGTON—Brunnen, Wm. B.
Collopy, P. J.
Fischer Bros. Co.
Glaser, Wm. A. Roofing & Cornice Works
Gottschalk, F. S. Sons. (Slate & Metal)
Hesselman, Herman
Jones, J. L. & Sons
Manwaring, Thos.
Rasch's, C. F. Sons (Slate & Metal)
Wachs, Wm. Sons
Walterman, Nicholas H.
CYNTHIANA—Colegrove & McCarthy
Ingles, W. H.
DANVILLE—Chestnut-Salter Hardware Co.
Durham & Scott
Stanwood, C. M.
DAYTON—Poos, John
ELIZABETHTOWN—Reed, Lum
Wintersmith's, R. L. Son
EMINENCE—Koenigstein, J. J. E.
FLEMINGSBURG—Hammer, H. O.
FRANKFORD—Brislan, J. J.
Miller, George W.

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FULTON—Huddleston, A. & Co.
Nolan, William & Son
GLASGOW—Satterfield, P. E. & Co.
Shader, T. M.
HARRODSBURG—Adams, Jno. H.
Reed, W. H.
HENDERSON—Harding & Felx
Norcutt, A. & Co.
Powell, B. L. & Co.
Wallace, J. H. (Slate & Tin)
HOPKINSVILLE—McShane, Hugh
Young, John (Slate & Metal)
LA GRANGE—Fischer & Son
LEBANON—Clements & Abell
LEXINGTON—Bitterman, Edw. & Son (Slate
Gray, Robt. & Metal), 80 W Main
Harper, Jas. D.
Payne, Geo. F.
Sharp, Geo. B.
Smith, Watkins, & Co.
Van Deren Hdw. Co.
Wheeler, Robt. V.
White, H. A., 47 W Main
Woodruff, M. M.
LOUISVILLE—Abraham, M. Roofing Co. (Felt, Asphalt, etc.), 101 W B'way
Bauer, Fred. 16th & Market
Bohn, S., 120 S Brook
Bott, Henry J., 1050 Bardstown rd
Brand & Bohrman, 225 S 7th
Conen, H. J. (Metal), 823 S 6th
Conn, Geo., 2824 Cleveland av
Daringer, Hy., 716 E Green
Ellis, G. D., 1223 21st
Everett, J. Guy Co. (Inc.), (Metal & Slate), 1119 W Market
Fink, P. Sons, 213 S 1st
Fronmiller, John, 1612 E Main
Garrett, B. F., 723 10th
Geher, Fischer & Co., 227 S
Ingram Roofing Co.
Kirch, Henry A., 1103 Mulberry
Krauth, H. P. & Son, 627 Baxter av
Louisville Cornice Roofing & Heating Co. (Tin & Slate), 120 S 10th
Louisville Tin & Stove Co., 621 W Main
Miller, L. C., 126 N 26th
Miller, P. & Son (Metal), 917 E B'way
Metal Ware Mfg. Co., 15th & Lytle
Naity, S. J., 1849 Portland av
National Roofing & Supply Co. (Asphalt, Pitch, etc.), 124 W Main
Obrecht, Wm. F., 3021 S 4th
Paine, W. H. & Son, 16th & Anderson
Pfister, Leo, 2506 (a) W Market
Ramser, Chas., 603 W B'way
Ramser Bros., 636 W Jefferson
Ramser's Geo. Sons, 925 S 3d
Roth, J. & Son, 1403 Story av
Schott, Charles W., 755 E Green
Schreick, Jacob & Co., 906 Preston
Shaber, Wm. F., 730 S 12th
Sikking, J. E., 2813 Dumesull
Sikking, T. A., 2300 Force
Smith-Porter Roofing Co.
Southern Roofing & Paving Co., 1006 W Main
Staeuble, C., 1106 Frankfort av
Troxell, S. F. Co. (Felt, etc.), 108 3d
Unz, John & Son, 826 E Main
Wagner, Joseph F. & Son (Slate & Metal)
Wobbe, F. H., 1041 Bardstown pl
Wulff, W. C. & Co. (Slate, Tile & Metal), 603 E Jefferson
Zeller, M., 811 Clay
LUDLOW—Buchanan, David S.
Ralfsen Bros.
MADISONVILLE—Bourland & Moore
Harned, R. L.
Mauzy & Boudurant
MAYFIELD—Gardner Bros.
MAYSVILLE—Leonard & Lally
McClanahan & Shea
Power, W. F.
Rasp, R. & W.
NEWPORT—Ehinger, Jos.
Lape, Geo.
Letcher, Henry
Listerman, Jno.
Monroe, Wm.
Ochs, George J.
Reder, Henry
Rust, L. & Son
Scherrer, John & Son
Schweikert, J. N.
Wagenlander, F. & Co.
OWENSBORO—Barbee, S. M.
Frederick, J. C. (Tin & Slate)
Guenther, W. A. & Sons (Tin & Slate)
Holbrook, R. R.
Killian, P. F.
PADUCAH—Clayton, T. H.
Davis, G. R. & Bro. (Slate, Granite & Metal)
Fowler-Wolfe Sheet Metal Works
Hank Bros.
Hoffman, Wm.
Maret, John C. (Slate & Tin)
Miller, C. J.
Scott, W. D.
PARIS—January & Connell
Lowry & Talbott
PRINCETON—Maret, H. T.
Ratcliff, Charles
Rucker & Edwards
PROVIDENCE—Benjamin, J. B.
RICHMOND—Taylor & Oldham
SHELBYVILLE—Casey, J. M.
Owen & Moore

## LOUISIANA.

BATON ROUGE—Gessell, Wm. & Bro.
Williams, M. J.
DONALDSVILLE—Scharff, H. & Son
Wutke, Paul A.
HOUMA—Bain, Teles
Ridley, C. A.
JEANERETTE—Bourgeois & Beaullien
Jeanerette Hardware Co.
JENNINGS—Smith, J.
LAFAYETTE—Graser Bros.
LAKE CHARLES—Braden, C. M.
Loy, W. H.
Murray-Brooks Hardware Co.
Richard, E. S. & Son
LAKE PROVIDENCE—Fousse, N.
MORGAN CITY—Boutterie, Vic.
NAPOLEONVILLE—Blanchard Bros.
NEW IBERIA—Ribbeck, R. P.
NEW ORLEANS—American Sheet Metal Works, S Carrollton av & Edinburg
American Tin & Sheet Iron Co.
Anderson, Alfred, 713 Carondelet
Annan, A. Hill (Slate), 510 Carondelet
Becker, J. Frederick, 2027 Magazine
Berner, E. J.
Blanke's, Henry H. Sons, 2353 Tchoupitoulas
Blessey, F. H., 4701 Magazine
Downey, Richard J. Co. (Slate), 509 St. Charles
Frederick, Hugo H., 929 Tehoupitoulas
Frederick, John
Gulf Galvanizing & Metal Works, 1229 Carondelet
Hamburger, John, 3143 Dauphin
Harry Bros. Co., S Carrollton av & Edinburg
Haubert, Philip, 3820 Dauphine
Holzer, Rudolph G., 317 Burgundy
Ibos Bros., 522 Chartres
Jones, J. Wilton, 612 Bienville
Kleinschmidt, Geo., 3531 Baronne
Lemley, David (Copper & Metal), 355 Barrone
Louisiana Roofing Co., 407 Tchoupitoulas
Lubben, John, 115 Magazine
Mesa & Weitham, 1744 Erato
National Blow Pipe & Mfg. Co., 632 Tchoupitoulas
Nelson, A. J. Mfg. Co. (Ltd.), Howard av c Dryades
New Orleans Roofing & Metal Works (Metal, Asphalt & Gravel)
Redmond, B. V., 340 Chartres
St. Germes, Bertrand, 730 Touro
Schaefer, Jacob
Steffens, L. A., 474 Josephine
Troy, Gus, 1123 Josephine
Twickler, Wm., 4530 Magazine
Whitney Supply Co. (Comp.), 200 S Peters
Zansler, Edw. L., 325 Decatur
SHREVEPORT—Adams & Son (Tin & Slate)
Bain, H. H.
Wortman, E. (Tin & Slate)

## MAINE.

ANDOVER—Smith, Fred. S.
AUBURN—Elms, James
Haskell, L. W. & Co.
AUGUSTA—Cogan, J. H. & Co.
Malcolm & Dyer
Taber & Reid
BANGOR—Clement, Carter & Co.
Leighton Plumbing & Heating Co.
Reilly, R. J. (Slate & Metal)
Semple, S. T.
BAR HARBOR—Green & Reynolds Co.
Lawrence, A. E. Co.
BATH—Barton, G. H. W.
Rogers, C. W.
Watson, W. H.
Winslow, J. A. & Son
BELFAST—Mitchell & Trussell
Stickney, J. B.
Wright, C. L.
BIDDEFORD—Anthoine, George A.
Lowell, John B.
BINGHAM—Lander, J. J. & Co.
BLUE HILL—Stanley, I. E.
BOOTH BAY HARBOR—Holton, W. T.
Lake, J. H.
BREWER—Woodbury, S. H. & Co.
BROOKS—Lane, Otis W.
BRUNSWICK—Furbish, B. L.
Ridley, Geo. B.
BUCKSPORT—Beazley, E. L.
CALAIS—Donovan, James
Huson, Thomas (Gravel)
Tupper, J. H.
CAMDEN—Bowers, J. W. Co.
CARIBOU—Briggs, Samuel E. & Son
CASTINE—Stover, F. N.
DAMARISCOTTA—Keene, W. W. & Son
DEXTER—Crockett & Tilson
DOVER—Lander, J. Q.
EASTPORT—Heffron, Edward F.
Martin, E. S. & Son
Spates, W. T.
ELLSWORTH—Morrison, Joy & Co.
FAIRFIELD—Totman, A. H.
FARMINGTON—McLeary, Wilfred
FORT KENT—Dugal, A. L.
GARDINER—Kelley & Wheeler
GORHAM—Brown Bros.
GUILFORD—Page, Spearing & Co.
HALLOWELL—Church, John W. & Son
HOULTON—Smith Bros.
ISLAND FALLS—Berry, C. M.
KENNEBUNK—Lunge, Harry E.
KENNEBUNKPORT—Wells, Alfred M.
KEZAR FALLS—Mason, Geo.
LEWISTON—Chase, J. H. Co., 191 Lisbon
Goss, A. L. & H. F.
Guilmet Co.
Howard, A. A. & Son (Slate & Gravel), 86 Spring
Pratt, T. L., 183 Lisbon
Stetson, J. H. Co. (Slate & Metal), 65 Lisbon
LIBERTY—Knowlton, J. L.
LISBON FALLS—Bailey, Charles E.
LUBEC—Trecartin Bros.
MACHIAS—Bowker, F. W.
Crane Bros.
MECHANIC FALLS—Hawkes & Whitney
MILLBRIDGE—Burnham, F. W.
MOUNT VERNON—Fellows, Chas. O.
NEWPORT—Deering, R. A. & Son
NORWAY—Crooker, James O.
Lancy, T. G. & Co.
OLD TOWN—Godfrey, F. N.
ORONO—Park, F. C.
PITTSFIELD—Getchell, T. E.
PORTLAND—Alexander, A. R., 22 Monum't sq
Bailey, F. P.
Bourne, M. B. & Son (Slate), 33 Temple
Crockett & Gordon

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Hawbolt, C. H.
Hersey, Harriette Mrs. (Felt Composition & Gravel), 22 Monument sq
Hollivan & Parker (Gravel & Asphalt), 56 Cross
Hutchinson & Cain (Metal), 438½ Fore
McBrady, J. E. & Son (Metal), 229 Federal
Nash, F. & C. B. Co., 386 Fore
Nash, O. M. & D. W., 6 Exchange
Scott, Wm. H. Co. (Metal), 29 Union
Wheeler, Fredk.
William, C. G. B.
RICHMOND—Haynes, J. & Sons
Rogers Bros.
ROCKPORT—Libly, A. & Son
SACO—Lord, A. T. & Son
SKOWHEGAN—Ross, C. A.
Stewart Hardware & Plumbing Co.
Wood, F. A.
SOUTH BERWICK—Webster, F. A. & Son
SOUTH PARIS—Richardson, J. P.
SOUTH PORTLAND—Tilton, C. A. & Co.
SPRINGVALE—Makin, J. H.
THOMASTON—Webber, M. E.
WALDOBORO—Curtis, C. H.
Richards Bros.
WARREN—Jameson, E. E.
WATERVILLE—Arnold, W. B. & Co.
Fardy & Gero
Hanson, Webber & Dunham
WESTBROOK—Knight Bros. & Co.

## MARYLAND.

ANNAPOLIS—Carr & Carroll
Granite Plastic, Slate & Slag Roofing Co. (Plastic Slate, Metal, Slate Tile, etc.), 882 Ryan
Wilson, C. A. L.

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BALTIMORE—Aaron, Sam'l, 819 Lamp
Andrews, Henry C., 829 N Howard
Appler, Henry & Sons, 52 S Carrolton av
Armstrong, Ed. L., 3020 Elliott
Bach, Henry, 1206 S Charles
Banks, W. H. & Sons, 405 Druid Hill av
Bauer, John B., 78 Mich. Hill av
Baugher, Joshua W.
Beever, John R., 643 Ensor
Bennett Bros., 523 N Freemont av
Bell, Joseph T., 1522 Vine
Berliner, Albert, 512 E Pratt
Berry, Bernard H., 244 Pearl
Betzel, W. F., 427 N. High
Bien, John, 718 S. Ann
Bley, J. H., 1522 N. Carey
Biden, James (Slate, Slag, Metal, Comp., etc.), Pratt & Parkin
Blimline, Louis F.
Bracken, J. F., 1208 N Central
Brown, G. W., 1017 Greenmount av
Burrows & Broderick, 1539 Maryland av
Carey, Philip Co., 434 Holliday
Carter, H. G., 1909 Folk av
Chesapeake Cornice Wks. Co., 101 S Calhoun
Chesapeake Plbg. & Tin Co., 1201 Hau-
Coath, Wm., Jr., 1636 E. Preston bert
Clarke, Wm. Wirt, & Son, 546 Monument
Clifton Cornice & Skylight Works, 427 N High
Cotton, Wm. E. Jr., 1517 M. Spring
Crandell, R. A., 1112 W Baltimore
Crout, W. F., 1121 Patterson av
Cunzeman, John, 1723 Bank
Dailey, Chas. J., 1121 W. Baltimore
Dawes, J. S., & Co. (Slag, Gravel & Slate), 782 W. Pratt
Deal & Gorsuch, 1731 Hartford av
Deal's, Wm. H., Sons
Denker, Herman, 2011 Fkd. av
Dorries, C. H., 2413 Orleans
Eberle, J. A., & Son, 860 Linden av
Ebert, George, 101 N. Patuxent
Eckhoff, John P., 116 N High
Eckman, Harry, 1356 Columbia av
Ellis, Luke J., 218 S Sharp
Engleman, Chas. J., 10 N Amity
Eurich, Henry, 2302 Boston
Eurich, Wm., 2208 Boston
Feldstein, Israel, 905 E. Lombard
Fingles, James A., 726 Light
Fingles, Wm. A., 29 S Howard
Fitzberger, Jno. Metal Cornice Co., 113 Clay
Fitzberger, T. Frederick, 213 Park av
Fleming, Lewis, 2334 Pa. av
Forster, Jos. P.
Foy, Edw. L. & Co. (Asphalt), Gravel, Comp. & Felt, Slate & Tile), 16 W Camden
Frederick, M. J. & Bro., 317 Park av
Fricke, John H., 205 S Bond
Gail, H. W., 580 N Gay
Garthe, Wm. Co. (Slate, Metal & Tile), 1527 Maryland av
Gault, Wm. A. & Son (Slate & Tile), 9 Lexington
Geiger, George, 2109 E Oliver
George, Conrad, 924 S. Sharp
Gibson, S. S., 601 N. Payson

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Govanstown Htg. & Plbg. Co., York Rd. opp. The Bank
Granite Plastic Slate & Slag Roofing Co. (Slate & Tile), 882 Ryan
Grasser, John G., 316 S Eden
Guetler, Geo., Roland av, R. P.
Guilfoy, James C., 16 W. 20th, N.
Guarantee Roof & Metal Pt. Co., 307 North
Haas, Alex. D., 508 Burgundy al.
Hagerty, Patrick J., 1618 Thames
Hartman, A. N. (Slate & Tile), 207 W. Saratoga
Haupt, John M., 205 N. Gilmor
Hetzel, John G., & Son (Metal), 225 N. Howard
Hicks, C. A., 911 3d av, N
Hicks, Chas. A.
Hopper, W. H.
Hutchins, Robt.
Ittner, Jacob F., 1627 Fkd. av
Kaestner, E. A., 516 N. Calvert
Kahlein, Fred'k, 1121 Carroll S
Kaiser, E. W., & Sons, 1408 Orleans
Kaiser, Geo. J., 206 Fkd. av, ext
Keiner, John, 410 S. Bond
Kintop & Brenneis, 113 Clay
Kirschenhofer, Louis, 1032 N. Gay
Kirwan, Wm. T. A., 10 W. Fort av
Klein's, A., Sons, 1114 Linden av
Knowles, Frank A. & Co. (Slate & Com-
Kohlhepp, A., 404 N Howard position)
Kolscher, J. F., 740 W Saratoga
Kraus, H. M., 2338 Pa. av
Kreh, John H., 722 Vine
Leamann, Fred'k C., 1026 Hillen
Leffert, J. Geo., 215 W Saratoga
Lenderking, Louis, 816 Ridgely
Lenderking, Philip H. Jr., Dillon, cor. Patuxent
Letmate, J. Fred. & Sons, 728 Penna. av
Lock, Daniel A., 620 W Cross
Loewenstein, Geo. W. (Slate & Tile)
Loomis, F. L., 719 Hanover
Lowrey, J. F., 826½ W Baltimore
Loyal Sheet Metal Works
McKay, John
Markolf, Geo. H., 1211 Park av
Maryland Roofing & Mfg. Co. (Slag, etc.), 2101 Boston
Miller, J. F., 1511 W Baltimore
Millar, Wm. J. S., 856 W North av
Miller, W. H. & Bro., 1425 Patterson
Mills, E., Jr., & Co., 27 W. Biddle
Mixter, J. S., 1004 5th av, N
Moss, Morris L., 38 S. Eden
Mueller, Michael, 2601 E. Fairm't av
Mullenberg, Chas. H., 1303 Druid Hill av
Nagel & Briers, 201 Hill
Neighoff, Francis M., 2402 Wilkens
Noble, H. & Co. (Asphalt, Gravel, etc.), 623 S Caroline
Northwestern Cornice Wks., 1506 Pa. av
O'Mallery, Edw. W.
Ohm, Wm., 115 N Greene
Oldenburg & Kelley
Overcash, Thos. N
Parsons, N. E., & Son, 910 3d av, N.
Peters, Joseph, 3318 E. Baltimore
Phebus, Roy O.
Plumshoff, H. G., & Co., 340 N. Calvert
Popple, Harry F., & Co., 1822 Harford av
Pruden Door & Window Co. (Sheet Metal Works), Warner, Bayard, & Dock
Pruitt, E. W.
Renna, Chas. C., 883 W. Franklin
Ritterhoff Ernest, 1157 Balto.
Rode, F. H., 1929 E. Fayette
Rubber & Asbestos Roof Painting Co., 544 N Calvert
Russell, G. W., 238 S Strickler
St. Paul Plumbing & Heating Co., 334 Greenmount av
Sauerland, A. P., 1101 Pa. av.
Schikner, Wm. B.
Schmidt, Geo. J.
Schneider, F., 1740 Canton av
Schneider, H., 2007 Clifton av
Schoenberger, Henry, 1304 N. Gay
Schultz, E. W., & Sons, Cent. av. & Scott & Bro. Jackson
Sellman, J. H., 2224 Greenmount av
Sellman, Niles P., 1416 Pa. av
Share, Albert, 1429 E Eager
Shipley, Wm.
Simms, J. A.
Simon, Adam, & Son, 1310 E. Eager
Sinclair, James M., 1001 York rd
Sinclair, W. W., 1042 York rd
Sindall, John P., 2706 Elliott
Skuhr, Chas. H.
Smick, Hy. (Slate & Tile), 1846 N.
Smith, Wm. Wolfe
Super, Wm. H.
Thaler, George J., 802 N Gay
Trotter, John R., 305 E Preston
Valle & Young, 216 N. Calvert
Wachsmuth, Chas., 935 S. Charles
Walker, William E., 1307 Edmondson
Ward, Wilbur F., 20 W. Pratt av
Warren-Ehret Co., Myrtle av
Weems & Thoms, 1319 Highland av
Wheeling Corrugated Co.
White, Robt. W., & Son, 1328 Pa. av
Wiegel, G. W. C., 1500 Penna. av
Wilhelm, J. Frank, 748 Pa. av
Wilhelm, Wm. H., 1050 Myrtle
Wilkinson, O. A., 929 Bolton
Winchester, J. H., 826 N. Gay
Zeller, W. F. & Co., 1119 Denver
Zimmers, A. M., 1808 Frederick av
BEL AIR—Brown, Charles C.
Heuer, Wm. W.
CAMBRIDGE—Anthony, J. R. & Co.
CATONSVILLE—Fisher, George
Wilson, Frank
COCKEYSVILLE—Kraus, L. P.
CUMBERLAND—Gessner, Geo.
Habig & Stegmaier
Langer, William
Morehead's, Wm. Sons
Saum & Daily
Thumel, Theodore
Wolz, J. L.
Zilch, J. G.
EASTON—O'Day, John
ELKTON—Alexander & Son (Tin, Iron & Felt)
Boulden, H. R.
ELLICOTT CITY—Fisher, C. C.
Meads, Jas. F.
EMMETTSBURG—Adelsberger, J. M. & Son
Hays, J. T. & Sons
Kugler, Chas. E.
FREDERICK—Fox, L. M.
FROSTBURG—White, Robert, Jr.
Wolf & Sons
Wolfe, Mrs. C. E.
HAGERSTOWN—Danzer, Albert
Hoch & Son
Milton, John F.
Saum, E. K.
Wagner, Harry R.
HAVRE DE GRACE—Case, N. B.
Murphy, John T.
LAURAVILLE—Buchwald, Paul R.
PORT DEPOSIT—Stephenson & Reynolds
REISTERTOWN—Brown, J. V.
Gormley, J. W.
ROCKVILLE—Viett, Henry
SALISBURY—Dorman & Smyth Hdw. Co.
Gunby, L. W. Co.
UNION BRIDGE—Hollenberger, John M.
WESTMINSTER—Gilbert & Gehr
Grumbine, W. H.
Westminster Hdw. Co.
WILLIAMSPORT—Herbert, Sarah E. (Mrs. E. Reichter, E. E. M.)

## MASSACHUSETTS.

ADAMS—Weston, L. A.
AMESBURY—Brown, Leonard
Mulligan, Patrick J.
ANDOVER—Walsh, M. T.
Welsh, Wm. H. & Co.
ARLINGTON—Shattuck, R. W. & Co.
ASHBURNHAM—Marble & Gilson
ASHLAND—Enslin, Franklin & Co.
ATHOL—Lee, Samuel, Athol Centre
Smith, C. E., Athol Centre
Ward, A. T.
ATTLEBORO—Brownell Hardware Co.
Flynn, Wm. F.
Gay, Irving M.
Jones, Richard H.
Perry, N. & Co.
AUBURNDALE—Gammons, R. F.
Walker, E. A.
AYER—Fillebrown, A. A. & Co.
Shaw, J. A.
BEVERLY—Hinkley, George F.
BOSTON—Acme Roofing & Repairing Co., 6 P. O. sq
Ahern, James & Son, 135 Hyde Park av
Albee, C. W., 83 Sheldon, Dor
Alger, C. W. Co., 189 Fort Hill sq
Anderson, Clas. & Co., 41 Way
Anderson, G. Jam. Plain
Asphalt Roof Coating Co., 127 Federal
Back Bay Cornice & Roofing Co., 47 Dur-
dee
Badger, E. B. &Son Co. (Copper, Gravel & Tin), 67 Pitts
Banash, Hy. A., 82 Roxbury
Bannen, Jas. P., 81 Joy
Barnard, Geo. A., 166 Devonshire
Bates, W. N., Elastic Paint & Roofing Co., 26 Central
Berry, Wm. B. & Co., 79 North
Binney, John & Son, 326 Atlantic av
Blacklow, N. & Son, 8 Friend
Beverins, John J., Cambridgeport
Block, Jacob, 93 Prince
Boston Furnace Co., 6 Portland
Boston Roofing Co. (Slate, Metal, Tar & Gravel), 6 Beacon
Brainard, John C., 930 Tremont
Brown, J. H., 55 Sudbury
Burgess, Robt. A., 34 Dakota rd, Dor.
Buchanan, Geo. J., 85 Commercial wf
Cardarelli, E. & Co., 130 Harrison av
Carlin, Wm. J., 18 Cambria
Carey, Arthur J., 23 Burrell, Rox.
Chandler, H. B. & Son, 9 Cambridge

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Cleaves, Stephen A., 631 Wash'n, Dor.
Connor, John P., 55 Sudbury
Cote & Cazeault, 35 Wareham

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Cronin, P. F. & Co., 7 Sachem, Rox
Daly, T. F., 208 Ruggles
Daly & Co., 1110 Cedar
Desmond, Daniel J., 86 Endicott
Devine Co. (Slate & Metal), 18 Pitts
Dinan & Co., 136 Castle
Douglass, Geo., Cambridgeport
Drennan Bros., 33 Dundee
Driscoll, James F., 213 W 9th
Dugan, James F., 103 Clifton, Rox.
Eagles, L. A., 600 Dudley
Ely, J. B., & Co. (Slate, Metal & Gravel), 74 North
Evans, A. B. & Co. (Slate, Gravel & Metal),
Evans, James, 22 Emerson 19 River
Farquhar's, John Sons (Inc.) (Slate, Copper, Metal & Gravel), 22 East
Feeney, John, 15 N Grove
Feneno, B. & Co., 1480 Tremont
Felstead, Wm., 20 Blackstone
Finegan, John C., 485 Dorchester av
Finkelstein, Max, 32 No Russell
Finn, D. E., 78 Revere
Flanagan, D. L., 490 Harrison av
Flynn, T. J. Sons Co., 9 Quincy Row
Forrest, Alfred W., 464 Harrison av
Gallagher, D. F., & Co. (Metal), 37 Com-
Genasco Roofing, 485 Dorch av mercial
Gettins, John P., 815 Tremont
Gillespie, J. Y., 708 Columbia rd

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Gordon, Chas. E., Cambridge book)
Gray, W. N. Stoneham
Griffiths, Wm. J., 14 Brattle sq
Grosvenor, W. J. & Co., 1150 Tremont bldg
Hackett, Wm. J., 57 Long wf
Harding, John W., 412 Main
Harrigan, J., & Son (Slate, Metal, etc.), 111 Liverpool
Harrington, Eben, 278 Bennington, E. B.
Hawley, John G., 641 E. 4th
Hayden, Franuis, 60 Troy
Hayden, Wm. O., & Co., 254 Gold, S. B.
Henderson, A. W., 636 Warren, Rox.
Hilliard Bros., 387 Atlantic av
Hind, Thos. J. (Slate, Asphalt, Gravel, Tile & Metal), 45 Commercial Wharf
Hobbs, H. S. & Son, 112 Harrison av
Hoffman, E. S., 642 Washington, Dor.
Holbrook, Ernest
Houghton, J. F. & Son, 114 Green, J. P.
Hourihan, John J. (Slate, Metal & Gravel), 7 Walden, Rox.
Hub Roofing Co., 233 Blue Hill av
Hub Sheet Iron Works, 54 Broad
Improved Plastic Slate Roofing Co., Tremont
Jeffers, Wm., 77 Jay bldg
Keough, Martin E.
Kesselhuth & Co., 1 Eliot sq, Rox.
Knights, Wm. H. (Slate, Metal, Tar & Gravel), 83 W. Concord
Krogman, Frank W., 23 Exchange
L. & T. Plastic Slate Roofing Co., 161 Devonshire
Lantz, Wm. H. & Co., 29 Central
Larsen, S. P., E Som'ville
Leighton, Geo. A., 147 Saratoga, S B
Leavitt, W. P. Sons Co., Newton
Loehr, A. H., 20 Kneeland
Locke, L. & Co., 37 Prentiss
Lutz, C. A. Jr., 9 Centre, Rox
McGinnis, E. C. (Slate, Tin & Gravel), 86
McGrath, W. W., 130 Border Chardon
McKenzie & Gillespie, 22 N Center
MacDonald, Alexander, 69 W. Dedham
MacDonald, Joseph A., 558A Shawmut av
Madden, John J., 1158 Columbus av
Maguire, W. J. (Slate & Metal), 544 Washington, Br.
Mansfield, Christopher J., 1010 Tremont
Martin, Jno. & Co., 63 Gates, S. B.
Martin, Wm., 130 G, S. B.
Maxcey, W. H., 638 Wash., Dor.
Mayo, Geo. A., Quincy
Mealey, High, 1492 Columbia rd
Miers, Chas. J., & Son (Slate, Metal & Gravel), 142 Cambridge, Chsn.
Miller, S. P., 48 B'way extension
Moore, Richard, (Slate, Tin, Copper & Composition), 4 Province ct
Morse, Bros., 17 Green
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Mullen, John H., 16 Southampton, Rox.
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Murphy, M. F., 55 Sudbury
Murphy & Co., 139 Kingston
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National Roofing & Roof Repairing Co. (Slate, Tin & Gravel), 14 Brattle sq
N. E. Cornice & Roofing Co., 17 Green
New England Felt Roofing Works (Felt.), 18 P. O. sq
N. E. Roofing & Cornice Co., 164 Federal
O'Brien, D. A. & Son, 166 Devonshire
Ormsby, T. L., 167 W 5th
Pangborn, Alfred H., 9 Border, E. B.
Parker, Chas. W., 142 Charles
Penshorn, Geo. (Slate, Metal, Gravel & Composition), 209 Washington
Pempel, Fred, 1462 Columbus
Penshorne, Geo. (Slate, Metal, Gravel & Comp.), 209 Wash'n
Richards, Geo. H., 457 Dudley
Riley's, H. Sons (Slate & Metal), 97 W Concord
Riley, James E. & Co. (Slate & Metal), 95
Rodday, Sam'l, 1130 Dorchester av Milk
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Sheherd, Peter, Hyde Park
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Sonderman, H. & Son (Slate, Tin & Gravel), 27 Marcella
So. Boston Roofing Co. (Slate, Metal & Comp.), 490 B'way
Sparham Cement Roofing Co., 53 State
Sullivan, Patrick, 91 Blue Hill av, Rox
Thomas, John G. Wollaston
Union Cornice Co. (Slate, Metal, Tar & Gravel), 7 Appleton
Warren Bros. Co. (Asphalt, Tar, Tile & Slate), 59 Temple pl
Waterproof Slate Roofing Co., Everett
Weber, F. I., 573 Dorchester av
Wedgewood, Aaron, 122 Boylston, J. P.
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Weiner, Sam, 47 Dundee
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Woodman, L. H. Chelsea
Young, D. A., Co., 229 Milk
BRAINTREE—Bates, F. A.
BRIDGEWATER—Fairbanks, J. H. Co.
Rogers, J. B.
Shaw, C. M.
BROCKTON—Alden Sheet Metal & Plbg. Co.
Brown & Morrow, 240 Main
Carlson Bros.
Carr, J. E. & Sons, 1036 Main
Dahlborg, C. F. (Metal & Gravel), 973 Main
McCabe, A. F.
Masfield, Edw. A. (Gravel & Slate), 19 Gardner av
Waterman, C. H., 753 N Main
BROOKLINE—Hart, C. O.
Kenrick Bros.
Mackey, Jas. P.
Murray, H. J. & Co. (Slate, Metal & Gravel), St. Andrew's bldg
Paine Bros.
CAMBRIDGE—Blevins, John J. (Slate, Metal, Granite, etc.), 696 Mass. av
Brock Bros., 1372 Mass. av
Douglass, Geo. (Slate, Metal & Gravel), 266 Prospect
Eagle Cornice & Skylight Works, Decatur c Brookline
Gordon, Chas. E. (Slate, Metal & Gravel), Main
Cornice & Roofing Co. 19 State
Moore & Hadley, 8 Brattle
Mullane Thos.
Peak, Howard F. (Slate, Metal & Gravel), 1440 Mass. av
Scannel, D. A. (Slate, Metal & Gravel).
CAMPELLO—(See Brockton) 352 Cambridge
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Miller, Emil
O'Brien, D. A. & Son, 33 Walnut
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CHICOPEE FALLS—Dunnelly, Wm. E.
Enright, P. J.
CLINTON—Dupont, P. O.
O'Toole Bros.
COHASSET—Bates, Allen C. (Est. of)
DALTON—Ford & Parker
Messinger, H. R.
DANVERS—Caskin & O'Connell
Ropes, J. E. & Co.
DEDHAM—Keelan, M. & Son
Russell, Charles (Est. of)
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EVERETT—White, A. W.
FAIRHAVEN—Forrest, E. W.
FALL RIVER—Archard, R. J. (Gravel), 60 Murray
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Grinnell, R. Frank
Hughes, Jas. T.
Lagasse Bros. Co.
Linley, F. R. H. Co. (Slate)
Lynch, Cornelius L.
McDermott, James
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FITCHBURG—Brownell-Mason Co.
Dyer, Frank B.
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Hodgkins, Elroy (Slate) 83 Water
Farrar, Geo. W.
Fitchburg Heating & Plumbing
Jennison Co. (Metal)
Normandin Bros.
Patch, Lyman Co., 390 Main
Porter, A. S. & Co.
Potter, F. S.
FLORENCE—Addis, E. C.
FRAMINGHAM—Connor Bros.
FRANKLIN—Hosie, G. W. & Son
GARDNER—Babcock, Geo. A.
Cote, Edward, Jr. (Slate, Tin & Gravel)
Curtis, H. O.
GLOBE VILLAGE—Lewis, W. C.
GLOUCESTER—Hale, J. P. & Co.
Smith, L. E. Co., 221 Main
GRAFTON—Dupis, Jules
Montague, E. J.
Smith, S. F. & Son
GREAT BARRINGTON—McManus, James
Turner, F. H. & Co.
GREENFIELD—Kilburn, Edward T. (Steel Roofing)
Ryan Bros. (Slate)
GROTON—Blood, F. M. & Co.
Blood, Geo. H. & Co.
HANOVER—Magoun, H. N. & Co.
HAVERHILL—Sargent, Ada F. (Slate, Gravel & Tin), 10 River
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HOLYOKE—Edwards, T. & Co., 530 High
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HYDE PARK—Barrett, Edward L.
Chisholm, Collin C.
Shepherd, Peter (Slate, Tin & Gravel)
IPSWICH—Dunnells, John M.
Goodhue, John W.
Plouff, Aug. H.
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LAWRENCE—Bingham, John F. Mfg. Co.
Horn, Geo. W. (Slate & Metal), 613 Common
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Wurzbacher, John & Co., 21 Jackson
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LENOX—Bull, W. B.
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LEOMINSTER—Burrage, H. E. Co.
Cragin & Wilkins Co.
Draffin, Alex. (Slate, Gravel, etc.)
Smith Bros.
LOWELL—Burns, Jas. & Son
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Wilder, H. H. & Co., 29 Market bldg

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LYNN—Annable, E. S.
Bee, Jno. D. & Sons (Slate, Metal & Gravel)
Bertram & Fox, 45 State 45 Sea
Hughes, Jas. R., 757 Western av
Pool, H. F., 5 Market
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MARION—Coggeshall, Frank B.
MARLBORO—Hanley, J. J.
Hill, Wm. H., 114 Main
Willard, Arthur B.
MARSHFIELD—Stevens, Oscar
MAYNARD—Holt, Abner D.
METHUEN—Homer, E. B.
Sanborn Furnace Co.
MIDDLEBORO—Doane, J. & G. E.
MILFORD—Ellis, Clark & Sons
Staples & Gould
MILLBURY—Ferguson, J. H. & Co.
MILLERS FALLS—Mathewson, Donald E.
MILLIS—La Croix, Edw.
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Turner, J. W.
NORTH BROOKFIELD—Wilson, Willard B.
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NORWOOD—Foreman, Wm.
Huntoon & Co.
Sears & Sons
ORANGE—Hill, G. L.
Train, E. W. & Co.
OSTERVILLE—Hallet, G. W.
PALMER—Brown, E. Co.
PEABODY—Norton, Benj. F.
Sears, Frank L.
PEPPERELL—Weston, D. E.
PITTSFIELD—Backus, W. G. Sons (Slate, Tile, Gravel & Copper), 4 Bank row
Booth. G. A. Jr. (Gravel & Comp.)
Bovett, D. W., 11 Melville
Doran, H. L. & Co., 213 West
Farrell, Daniel F. & Co., 194 North
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Sears Roofing Co. (Slate, Metal & Gravel)
PLYMOUTH—Bailey, H. P. & Bro.
Harris. C. T. & Son
Hathaway & Sampson
PROVINCETOWN—Bangs, W. B.
Engles, Herbert
QUINCY—Bouchard, Louis
Dolan, Michael A., West Quincy
Edwards, S. H.
Mayo, Geo. A., West Quincy
Sanborn & Damon, 117 Hancock
READING—Austin. Henry K. (Metal)
Fife, T. C.
Francis Bros.
ROCKLAND—Baker, H. A.
Burgess, C. W.
ROCKPORT—Smith, L. E.
Thurston & Hale
SALEM—Dean, James F. (Asphalt, Tar, Gravel
Gould, Jas. N. & Metal)
Harris, Oscar M. (Felt & Gravel)
Pinnock. Thos. G. (Slate & Metal)
Wadleigh Co.
SAXONVILLE—Frost, David O.
SHARON—Gillespie, Jno. R.
SHELBURNE FALLS—Knowlton, C. L.
SOMERVILLE—Doe, R. W., 341 Medford
Durell, Julius A.
Gosse, C. E., 1 Union sq
Hunt, Edgar O.
Holmes. Wm. B., 317 B'way, Winter Hill
Howe, Wm. S., 51 Union sq
Larson, S. P., 24 Tufts
McMillan, Albert F., 377 Som. av
McNee, Thos., 12 Linden pl
Miers, Chas. J.
SOUTHAMPTON—Lyman, H. B.
SOUTHBRIDGE—Southbridge Roofing Co.
Winter, Geo. C.
SOUTH FRAMINGHAM—French Bros.
Sawyer, H. L.
SOUTH HADLEY FALLS—Moriarty Bros.
SOUTH LANCASTER—Rowell, Warren L.
SOUTH WEYMOUTH—Loud, M. R. & Co.
SPENCER—Pease, A. G. & Co.
SPRINGFIELD—Atwater, E. C. & Co. (Metal)
Auto Metal Co., 520 Worthington
Bacon, Benj. G. (Metal), 18 Walnut
Beebe, N. S., 17 Florida
Blood, Lucius M., 122 Main
Brunton, Martin J. & Son (Slate & Gravel), 173 Liberty
Clark, Leonard & Son, 104 State
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Cox, John D., 817 State
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Gardner, Horace S., 98 Melrose
Grant, A. & Son (Slate, Gravel, Felt & Composition), 23 Besse pl
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STOUGHTON—Paul, Samuel, Jr.
SWAMPSCOTT—Philbrick & Pope
TAUNTON—Baker, O. P.
Baker, Timothy C., 42 Main
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Newhall, G. S., 6 Main
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THORNDIKE—Bond, A. M.
TURNERS FALLS—Starbuck, George & Son
VINEYARD HAVEN—Armsby, Geo. F.
Tilton, H. L.
WALTHAM—Carr, Frank C.
Carr, Geo. H.
WARE—Marsh Bros.
WAREHAM—Humphrey, Albert
WARREN—Keenan, J. H. & Son
Maxim, J. W.
WATERTOWN—Morris, Edw. O. (Slate)
Walker & Pratt Mfg. Co.
WEBSTER—Bates, A. J. & Son
Cazeault, J. T. & Bro.
WELLESLEY—Porter, F. H.
WESTBORO—Frost, Wm. B.
Woodman, G. H. & Co.
WEST DENNIS—Weyser, Chas. C.
WEST MEDWAY—Grant, W. R.
WEST NEWTON—Carley, C. G.
Cushman, J. T. & Co.
WEYMOUTH—Bates, A. K.
WHITINSVILLE—Searles, Geo. F. & Sons
Sykes, W. T.
WHITMAN—Goodwin & Co.
WILLIAMSTOWN—Sherman, B. H.
WINCHENDON—Fisher, J. B. & Son
WINCHESTER—Pratt, Geo. E. & Co.
WINTHROP—Grimes, Michael
WORCESTER—Barnard, G. A. (Slate, Metal & Gravel), 74 Prescott
Barnard, G. A. (Slate, Metal & Gravel), 74 Prescott
Buckley, A. H., 20 Lincoln sq
Carr, Geo. W Co. (Gravel, Tar & Slag),
Cooley, Hy. P., 9 Brittan 518 Main
Cooney, M. D.
Hanley, Richard (Slate, Gravel & Metal),
Hascall, Henry J. 142 Central
Kiely, James J., 113 Thomas
Klein, Wm.
Lamb, J. B., 13 Park
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Silverman, Pinkus
Taylor, James S., 391 Pleasant
Whittle, Geo. H. & Co.
Windt, C. A.
Worcester Concrete Paving & Roofing Co.

## MICHIGAN.

ADRIAN—Baier, Jos. A.
Clauda, Paul
James, Heabler & Knight
Taylor Bros.
Vogel, Clement
Wilcox Hdw. Co.
Winship, Geo.
ALBION—Griffin, Geo. P. (Metal & Comp.)
Slowey, Wm. E.
ALLEGAN—Phillips Bros.
ANN ARBOR—Fischer, John C.
Muehlig & Schmid
Schlenker, C.
Schumacher Bros.
BANGOR—Camp, Fitz W.
Seymour, F. S.
BATTLE CREEK — Battle Creek Furnace & Roofing Co.
Bock-Waker Co. (Slate & Iron), 18 Madi-
Brockett, L. B. & Son, 59 W Main son
McCallum, Wm.
Parrish & Morse
Shouldice Bros.
BAY CITY—Bialy Hardware & Supply Co.
Bruette, P. D.
Disher, F. H.
Eger, R. J.
Eickemeyer, H. & H. L.
Grove, W. J.
Hart, C. M. (Slate & Gravel)
Hershey, B. Frank
Jennison Hardware Co.
Kurbach, Godfrey
Laderach, O. H.
McCarthy, P. L.
Mann & Ackermann
Mosher, Geo. L. & Co.
Schepper & Covert
Siple, C. M.
Smith, Theron E.
Styninger, J. A.
Tossell, J. P.
Ufer, A. H.
Walther, A. & Son
Wilson, Wellington F.
BELLEVILLE—Cady & Forbes
BENTON HARBOR—Colegrove, Wm. B.
Hall, A. T.
BIRMINGHAM—Blakeslee, J. R.
BLISSFIELD—Timmins, P.
BOYNE CITY—Reichert, J. L.
BRIGHTON—Baetcke Hardware Co.
BROOKLYN—French, Stuart K.
BURROAK—Hazzard, F. J.
CADILLAC—Johnson, John
CALUMET—Carlton Hdw. Co.
CARSON CITY—Hallett, John W. & Son
CASSOPOLIS—Fisher, Jno. W.
Hayden, W. B. & Son
CENTERVILLE—Pitts, L. W.
CHARLEVOIX—Bartholomew, L. D. & Co.
CHARLOTTE—Munger, J .W. & Son
CHEBOYGAN—Cueny, J. E. & Bro.
Post, J. J. Hdw. Co.
CHESANING—McKenzie, Hector F.
CLINTON—Lindsley, Geo. C. & Son
COLD WATER—Allen, D. C. & Co.
Chandler & Lee (Metal & Slate)
Kerr Bros. (Slate, Metal & Comp.)
Kilbe, Chas. E.
CROSSWELL—Heard. Harry J.
DETROIT—Adams, J. H., 34 Clifford
Alexander, E. M., 2080 W Jefferson av
Allur, Chas. T., 10 Adams av W
American Roofing Co. (Asphalt Composition), 634 Gratiot av
American Sheet & Tin Plate Co., Penobscot bldg
Ames, Louis (Metal), 270 Grand River av
Anderson, J. M. Co. (Cement), 55 Wayne
Armstrong, B. & Co. (Felt & Gravel), 634 Gratiot av
Bartrucke, Benj., 743 Orleans
Bernard, Wm. C., 26 Montcalm
Berschbach & Herz (Tin, Slate, Gravel, Metal & Prepared), 634 Gratiot

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Bertling, Paul C., 755 Hancock
Buchta, Henry, 191 Livingstone av
**BURTON, W. J. CO. (Asphalt, Felt,** Slate, Metal & Tin), 161 W Congress (See adv. index, end of book)
Candler, J. D. & Co. (Slate, Metal, Tile & Comp.), 177 High, E
Carey, Philip Co., 17 Jefferson av
Clark, J. F. (Gravel, Slate & Tin), 18 Grant
Comerford, Jno., 1524 Russell Court
Dancy & Co., 431 6th av
Detroit Cornice & Slate Co. (Metal, Tile & Comp.), 145 St. Antoine
Detroit Gravel Roofing Co. (Gravel, etc.), 1588 W Jefferson av
Deuel, Chas. C., 75 Jones
D'Hondt, Victor, 23 Maple
Eagle Cornice & Roofing Co. (Tile, Slate, Gravel & Metal), 959 W. Fort
Eberts Bros. (Comp. Slate & Metal), 352 5th
Economy Mfg. Co. (Asphalt), 54 Jefferson
Farin Bros., 153 Larned, W av
Fuel Economy & Mfg. Co. (Gravel & Rubberoid), 54 Jefferson av
Gilbert, G. W. & Son (Asphalt, Comp., Felt, Gravel, Slate, Tin, etc.), 20 Gilman

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Howie Roofing Co. (Slate, Tile, Gravel Asphalt, Comp., Metal, etc.), 370 4th av
Hutchins Car Roofing Co. (Car), Ford bldg
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Johnson, John & Co. (Magnesia Flexible Cement), 368 Gratiot av
Karle, D. Co., 448 Gratiot
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**DOWAGIAC—Bishop Hardware Co.**
Schmitt Bros.
**ESCANABA—Delta Hdw. Co.**
**FLAT ROCK—Longprey, L. T.**
**FLINT—Algoe, J. Frank**
Foote, C. E. (Metal)
Hewitt, C. H. & Co.
Hubbard, Geo. W. & Son
Sager, Wm. N.
**FRANKENMUTH—Link, Chas. F.**
**FREMONT—Raider, J. F. A. & Son**
**GLADSTONE—Kruger, H. J.**
**GRAND HAVEN—Hartel, August**
Pfaff, Fred. & Co.
**GRAND RAPIDS—Alden & Judson**
Allport, A. B.
Behler & Cox
Brown, J. W., 872 East
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De Windt, Adrian
Denison, Dykema & Co., 666 Wealthy av
Eikenhout, Hy. & Son, 31 W Market
Ellis, C. A. & Son
Foster, Stevens & Co.
Grand Rapids Sheet Metal & Roofing Co., 505 N Ottawa
Hopson, W. C. & Co., 25 Campau
Juncker & Cales
Kroeze, Peter, 10 Huron
Lane & Cushman
Lehnen, G. L. (Tin)
Manwaring, Orley
Mathews, Geo., 682 Madison av
Myer, Albert
Richards, Glendon A. Co.
Sokup, F. J. (Slate, Metal & Gravel), 121 S Front
Stadt, Wm.
Stonehouse, R. A. & Co.
Tell, Peter
Valley City Sheet Metal Co.
Van der Brock & Riddering, 380 Plainf'd av
Weatherly Co. (Slate & Metal), 18 Pearl
Welfare & Stephenson, 1199 S Division
**GREENVILLE—Fowler Co.**
Ockerman, Wm. M.
Stevens, Geo. W. & Son (Tin & Iron)
**HAMBURG—Cunningham, Jas. S.**
**HANCOCK—Kerredge, Wm.**
**HASTINGS—Goodyear Bros.**
Weissert Bros.
**HILLSDALE—Gardner Hardware Co.**
Hillsdale Hdw. Co.
**HOLLAND—Tubbergen, J. H.**
**HOUGHTON—Portage Lake Hdw. Co. (Comp., Stoyle, Fred Gravel & Metal)**
**HOWARD CITY—Larry Hardware Co.**
HOWELL—Schroeder, Fred. P.
**HUDSON—Armstrong & Munger**
**IDA—Braunlich, A. H.**
**IRON MOUNTAIN—Corning & Barron**
Mitchell, W. H.
**JACKSON—Barkalow, Silas**
Bell & Lectka
Copsey, Chas. H.
Daley & Rutherfard
Loeser & Lehr, 110 E Main
McGraw & Crone (Slate & Metal)
McLean, F. & Co. (Slate & Tin), 162 W Main
Oleslager, Jno. B., 510 E Main
**KALAMAZOO—Boerman, John P.**
Edwards & Chamberlin Hardware Co.
Larned & Shandrew
Metzger & Meulenberg
Van Male, John
**KEELER—Flaherty, A. F.**
**LAKE ODESSA—Tolles, Howard E.**
**LANSING—Dunham Hardware Co.**
Fleming, J. (Slate & Metal), 309 Wash av
Gregory, Geo.
Mudford, Wm.
Norton, Chas. M. (Comp. & Metal), 111
**LAPEER—Gray, Sidney T. Washington, S**
**LYONS—Hatch & Baker**
**MANCHESTER—Kuebler, Louis A.**
**MANISTEE—Miller, Wm.**
**MANTON—Meyer Hardware Co.**
**MARINE CITY—Scott Bros.**
Zimmerman Bros.
**MARQUETTE—Clark, Daniel M.**
Manhard, M. R. & Son
Neidhart, B. & Co.
**MARSHALL—Osborne, Daniel**
Treadwell, J. W.
**MENOMINEE—Bertholdt, Herman C.**
Northern Hardware & Supply Co.
**MIDLAND—Reardon Bros. Mercantile Co. (Tin & Metal)**
**MILFORD—Hatch, F. F.**
**MONROE—Egle, Ed.**
Steiner, Wm.
**MORENCI—Gust, C. W.**
**MOUNT CLEMENS—Ferrin, Chas. S.**
Ullrich, R. C., Hardware Co.
Widrig, Rosell
**MUNISING—Thoenen, R. H.**
**MUNITH—Harris, Arthur M.**
Rothman, C. F.
**NASHVILLE—Glasgow, C. L. (Steel)**
**NEGAUNEE—Farson, S. A.**
**NEW BALTIMORE—Langell, Frank M.**
**NILES—Montague, C. M.**
Platt, W. E.
Salisbury & Selfridge
**NORTH BRANCH—Orr, Daniel**
**NORTHVILLE—Carpenter & Huff**
**OWOSSO—Curry, Ira G.**
Hadsall, H. H.
Post, H. M. & Son
Van Kammen, John
**PAW PAW—Norwood, C. A.**
Waters, H. C. & Co.
**PETERSBURG—Kohler, Fred.**
**PETOSKEY—Bump & McCabe**
Raynolds, Chas. A.
**PLYMOUTH—Conno Hardware Co.**
Huston & Co.
**PONTIAC—Hallett, E. J.**
Rich, A. C.
**PORT HOPE—Weatherhead, M. P.**
**PORT HURON—Bolligar, Jas.**
Boyce Hardware Co.
Busby, Chas. E.
Casler, Conrad C.
Dart, J. A.
Schaller, J. B.
Sturmer, Chas. A.
**PORTLAND—Ferguson, E. L.**
**QUINCY—Barringer, W. Fred**
Bishop, I. L.
Cole, S. B.
**RANSOM—Thompson, O. W.**
**ROCHESTER—Tienken & Case**
**ROMEO—McDowell, Wm. C.**
Moreland, H. H.
**ROMULUS—McBride, W. S.**
**SAGINAW—Asphalt Roofing Co.**
Bauer, Jacob C.
Brackett, G. S.
Burdett, C. H.
Bruske, Henry
Carey, Philip Co.
Ferguson, John S.
Foale, Ed. H.
Gemmill, Wm. & Son, 502 Potter
Griffin, F. G.
Hudson, H. J.
Jacobi, Alex. A. N. (Slate & Metal), 113 N Warren av
Krogman, H. G., 212 N Hamilton
Leyerer, J. S., 408 Germania av
Martin, B. & Son, 816 Jane, E S
Niederstadt, August
Kuehn, Emil C.
Paxton & Schoenberg (Tin & Steel), 213 N Hamilton
Saginaw Sheet Metal Works (Slate, Tile & Saunders, Chas. Metal)
Schaberg, C. F., 306 Lapeer av
Smith, J. S.
Staver, John R.
Valley Cornice & Slate Co. (Ltd.) (Slate, Ward, Karr & Co. Tile & Metal)
Weiland, Albert P., 731 Hoyt av
Winterstein, O. A. F.
Wolverine Roofing Co.
**ST. JOHNS—Fowler & Ball**
Spaulding & Co.
**ST. JOSEPH—Moulton, Chas. H.**
**ST. LOUIS—Humphrey & Brockway Hardware Co.**
**SAUGATUCK—Koning, Jno.**
Schnobel, H.
**SAULT SAINTE MARIE—Soo Hardware Co.**
**SCOTTVILLE—Talmage, M.**
**SEBEWAING—Muellerweiss, Adolph**
**SHELBY—Rankin, A. J.**
Sargent, M. J.
**SHEPHERD—Worthington, F. A.**
**SPARTA—Loops, Jas.**
**STANTON—Segar, Edwin L.**
**STURGIS—Morlan, Albert G.**
**TECUMSEH—Satterthwaite Bros.**
Whitenack, D. L. & Co.
**THREE RIVERS—Griffith, Jno. (Slate & Metal)**
Reed, T. J.
**TRAVERSE CITY—Arms & Cole**
**UBLY—Wilkinson, Harry J.**
**UNION CITY—Walker, C. S.**
**VASSAR—Brett, C. N.**
Dean, H. C.
**VERMONTVILLE—Bailey, F. J.**
**WALDRON—Gish, C. M. (Asbestos, Gravel & Metal)**
**WAYNE—Cozadd, J. C.**
**WYANDOTTE—Gartner Hardware Co.**
Karth, Frank A.
**YPSILANTI—Blair, Wm.**
Carpenter, Edmund A.
Whitford, T. S.

## MINNESOTA.

**ADRIAN—Prediaux Bros.**
**AITKAIN—Schadegg, Fred. G.**
**ALBERT LEA—Gulbrandson Hardware Co.**
**AUSTIN—Decker Bros.**
Holmes Hardware Co.
**BEMIDJI—Doran Bros.**
**BIRD ISLAND—Kromer & Hurley**
**BLOOMING PRAIRIE—Morton, E.**
**BLUE EARTH—Maas, A. G.**
Maxson Hardware Co.
Rabe, Chas.
**CASS LAKE—Schwenk, Chas. & Son**

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CHATFIELD—Heyden, H. H.
CLOQUET—Fish Hardware Co.
Loisel, Jos.
CROOKSTON—O'Brien, J. E. & Co. (Ashestos)
DULUTH—Burman, C. L.
Burrell & Harmon (Slate & Metal)
Deetz & Co.
Duluth Corrugating & Roofing Co. (Iron,
Giese, A. O. Pitch & Gravel)
Helbing, L. R. Co.
Hollihan & Milostan
Little, Richard
Star Roofing & Cornice Works
Shepard, Geo.
FARIBAULT—Cavanaugh, Geo.
Lockerby & Detert
FERGUS FALLS—Bauer, Joseph
Frankoviz Hardware Co.
GIBBON—Isakson, Louis
GLENWOOD—Rowe, David W.
HARMONY—Kidder, E. F.
HOPKINS—Kocourek & Breen
KENYON—Tornblad & Pederson
MANKATO—Lewis, John A & Son
Zimmerman, S.
MINNEAPOLIS—Archambo Htg. & Plbg.
Barrette & Co., 10 E. 26th
Berg, E. B., 15 S. E. Main
Bergman, A. F., 726 S. 4th
Calliton, E. A., 124 E Lake
Crittenden Roofing & Mfg. Co. (Slate, Metal, Tile, Asphalt, etc.), 920 S. 4th
Dressler, M. F., 814 20th av N
Dulkin, M., 28 N 6th
Gardner, W. L., 6 E. Lake
Gerber, J. J., 128 6th av, S

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Goetzenberger, E., 2421 Lyndale av S
Great Wester Stove Repair Co., 312 Hennepin av
Henning, Julius, 2708 29th av S
Jones & Sawyer, 3005 Hennepin av
Kraus, Albert, 2441 Bloomington av
Lewis Bros., 411 Central av
Lucas Bros., 117 S 6th
Morison, W. K., & Co., 247 Nicollet av
Nash, Geo. S., Robbinsdale
National Roofing & Cornice Co. (Slate, Tile, Gravel, Metal, etc.), 1409 S. 7th
Northwestern Roofing & Cornice Works (Slate, Metal, Pitch & Gravel), 1113 S. 5th
Roberts, H. O., 103 Western av
Russell, Frank H., 2013 5th av, S
Selden Roofing & Mfg. Co., 76 Western av
Shotwell, H. J., 14 9th st S
Smith, H. F., 1961 Feronia av
Solberg & Colby, 515 E. Lake
Stremel Bros. (Slate, Felt & General), 1215 Wash'n av, N
Townsend, A. W., 20 S 2d
Tunstead Heating Co., 223 S 6th
Twin City Hardware & Heating Co., 1927 University av
Yosk, Fred. J. & Co., 409 20th av N
MONTEVIDEO—Jensvold, F. N.
MOORHEAD—Levitre, Jno. J.
NEW ULM—Gag & Ranweiler
Roloff, Charles
NORTHFIELD—Biermann Bros.
Boe, H. A.
OWATONNA—Butsch & Son
Thon, John
Thompson, J. M. & Son, Hardware Co.
PARK RAPIDS—Breher, Jos.
Tennis, S. C.
PELICAN RAPIDS—Berg, Lara L.
REDWOOD FALLS—Laird, D. E.
Pease, E. A.
ROCHESTER—Stebbins & Co.
RUSHFORD—Swenson & Waxland
ST. CLOUD—Thielman Bros.
ST. PAUL—Adams, E. J., 31 E 3d
Decker, A. Co., 347 Jackson
Farwell, Ozmun Kirk & Co.
Franz, L., 480 Banfil
Griffen & Boehme, 121 W. University
Haag, George, 355 W. 7th
Haag Roofing & Cornice Co., 28 W. 3d
Haag, Wm. P., & Co., 309 W. 7th
Haas & Anderson, 131 S. Wabasha
Haase, C. A., 744 Grand av
Heck, Geo. P., 486 Selby av
Knickerbocker Roofing & Paving Co.
Lefebve-Deslauriers Roofing & Cornice Co. (Slate, Tile, Asphalt, etc.), 311 Chestnut
Matteson, B. C., 786 Grand av
Minnesota Roofing & Cornice Works, 135 Nicols, Dean & Gregg 12th E
Northwestern Lime Co., 68 Lower Levee
Prendergast Bros., 20 E 6th
Rossberg, C. E., 148 N Dale
St. Paul Roofing Cornice & Ornament Co.
Schleck Bros., 991 W 7th
Schneider & Luckert, 228 W 3d
Scribner-Libbey Co. (Comp. Slate & Metal), 219 W 5th
Wolterstorff-Haskell Range & Furnace Co., 186 E. 6th
ST. PETER—Feldman, Charles H.
SAUK CENTER—Hillerud, G. & Co.
SHAKOPEE—Mergens, Henry
STILLWATER—Evans, W. T.
Loeber, August
Strudwick, J. F.
THIEF RIVER FALLS—Jackson & McGinn
Oen Merc. Co.
TWO HARBORS—Schreiner Bros. & Moulton
VIRGINIA—Tobin, M. W.
WABASHA—Schmidt, Julius
WARREN—Taralseth, K. J. & Co.
WILLMAR—Lewis Hardware Co.
WINONA—Baeuerlein, C. A. Hardware Co.
Cone, R. D. Co.
Magnus & Wilkens, 119 E 2d

## MISSISSIPPI.

ABERDEEN—Lann & Carter Hdw. Co.
Henderson Hdw. Co.
Miller, J. A.
Warburton, T. R.
BILOXI—Combel, Jos. Tremmel, Aug.
COLUMBUS—Newby Bros.
CANTON—Gunther, J. N.
CLARKSDALE—Waters & Co.
CORINTH—Byrnes, M. & Son
Russell, C. S.
Thomas, C. B. & Bro.
GREENVILLE—Henry, F. M.
Price, A. G.
GREENWOOD—McAlpine, J. T.
Strube, Chas. U.
JACKSON—Daley, C. E.
Gaston, H. D.
Key-Price Hardware Co.
McCleland, Thomas Hardware Co.
Pace, T. D. & Son
Ramey, J. H.
Sewart, Geo. H.
Wright, Ray
MERIDIAN—McMillan, A.
Melton Hardware Co.
Switzer, J. W. & Son
NATCHEZ—Boyle, B.
Boyle, B.
Holmes, T. J.
Mulvihill, P. W. (Metal & Slate)
Schwartz & Stewart
TUPELO—Dalton, Albert
VICKSBURG—Bruser, Wm. H. (Slate, Metal,
Kenney, M. A. Comp. & Gravel)
Smith, J. B. (Slate, Comp. & Metal)
WEST POINT—Foster & Co.
Quinn, H. L. & Co.
WINONA—Stone Bros.
YAZOO CITY—Cummings, M. F. (Slate & Tin)
Jenne, George

## MISSOURI.

AURORA—Aurora Hardware Co.
Burney & Richart
BERGER—Freese, A. W.
BETHANY—Bethany Hardware Co.
Cole, W. C.
BETHEL—Bower, W. C.
BOONVILLE—Hirlinger, Frank H.
Vanatta, Frank
BOWLING GREEN—Campbell Bros.
BRAYMER—Divelbiss & Toland
BROOKFIELD—Post, M. C.
BUCKLIN—Hausmann, T. A.
Murphy, Hy.
BUTLER—Bennett, Wheeler Mer. Co.
Ray, Hayden
Ray, John
CALIFORNIA—Kossman, Jos. E.
CAMDEN—Burnett, Clarbourne
CAMERON—Davis, I. B.
Frazier, J. T.
CANTON—Maddox, Chas. H.
Martin, C. F.
CAPE GIRARDEAU—Brunkhorst, A. F.
Frenzel, John
Leher, H. A.
Vogel, W. H.
Vogt, F. W.
CARTHAGE—Drake Hardware Co.
CARUTHERSVILLE—Foster, W. E.
Caruthersville Hdw. Co.
CHILLICOTHE—Batta, Joseph
Markey, James A.
Palmer, S. & Son
CLARENCE—Lagenbock, A. (Est. of)
CLARKSVILLE—Kissinger, J. H.
CLINTON—Baum, Hy.
Blakemore, Jas. N.
Driggs & Jones
Haysler-Rose Co.
COLUMBIA—Hornberger, W. W.
Kuetz & Dinwiddle
Newman Hardware & Store Co.
CORDER—Kleinschmidt, H. F.
DEEPWATER—McCown, W. H.
DE SOTO—McLane, D. D.
Slawson, A. F. (Gravel, Tin, Comp., etc.)
DEXTER—Miller, Ulen & Carter
DIXON—Dixon Hardware Co.
DOWNING—Bailey, C. M.
ELDORADO SPRINGS—Smith, B. W.
EVERTON—Goforth-Hankins & Co.
FARMINGTON—Boswell & Helber
FAYETTE—Kelly, D. P.
Trau, George
FLORISANT—Humbach, Peter L.
Kienstra, Anthony
FRANKFORD—Bucks, Jno. K.
FULTON—Callaway Hdw. Co. (Slate & Metal)
Fisher & Neal
Seiler, A. F.
GALLATIN—Lawrence-Osborne Hardware Co.
GLASGOW—Blocher & Huber
GLENWOOD—Chattin, Wm. & Bro.
Smith, Celeste
GREENFIELD—Helpenstein, Amos
HAMILTON—Barker, F.
HANNIBAL—Busby, W. C.
De Laporte, J. A.
Farmer, J. O.
Hynes, J. E.
Kanstner, Wm.
Kaup, Wm.
Peck, E. J.
Shea, Morris
Wayne, Wm.
HARRISONVILE—Parsons, J. C. & Bro.
HERMAN—Eberlin, Armin
HOLDEN—Tevis, J. H.
HUMPHREYS—Whaley & Van Fossen
INDEPENDENCE—Casper, Martin
Hill & Martin (Slate & Metal)
Tindall, Chas.
JACKSON—Daley, S. T.
Jaeger, Adolph
Wolters, R. S.
JASPER—Bayne & Son
JEFFERSON CITY—Natsch, Anton
Schleer Bros.
JOPLIN—Harvey, A.
Joplin Cornice Works
Morgan, W. E. Roofing & Mfg. Co. (Gravel, Comp, etc.)
KANSAS CITY—Allen, Ambrose
Blake & Blake
Brink, B. H., 1915 Grand av
Carey, Philip Mfg. Co., 526 Delaware
Conkey Roofing Co. (Gravel), 1314 E 18th
Cubine, W. B., 3031 S W boul
Decker, Sarah M., 2001 Indiana av
Dietrich, Peter, 706 W 14th
Dietzel, F. H., 2117 E 15th
Ellis, H.
Geis, John G., 1001 W 24th
Gille Mfg. Co., 1053 St. Louis av
Gray, F. I., 407 Oak
Grothus, Geo. H.
Hurter, Geo. W. & Geo. C.
Jakobe, J. G. & Sons, 1318 Main
Kansas City Furnace Co., 618 Prospect
Kansas City Slate & Tile Roofing Co., 21st & Forrest
Kimmel, J. C., 3310 E 15th
Kirby, Scott, 709 E 31st
Kornbrodt Kornicé Kompany
Maiken & Sons, 2508 E 31st
Monarch Metal Mfg. Co. (Slate & Metal)
Nail, J. C., 1421 E 18th
Redheffer Hardware Co., 544 Main
Reed, H. M. (Hardware), 3136 Jefferson
Sellers & Marquis Roofing Co., 105 W 8th
Seymour & Kiff, 2408 E 16th
Sick, W. F., 2804 E 18th
Silverstein, B., 1223 Inde ave
Stoeltzing Bros. Stove & Cornice Co., 1605 Grand av
Stoelzing, Ernst
Stophlet, F. C., 12 E Missouri av
Twichell Iron Co., 220 W. 3d
Vanstone, Walter, 2901 E 18th
Walter, G. E., 522 Grand av
Western Roofing Co. (Comp. & Gravel), 17 W Missouri av
White, G. W.

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Wiedenman, W. C. (Slate, Tile & Metal), Zinkle, E. H. 1710 McGee
KENNETT—Riggs-Petty Hardware Co.
KEYTESVILLE—Vaughan, W. D.
KIRKSVILLE—Clark, R. Hdw. Co.
Helme Hdw. Co.
KIRKWOOD—Cronin, M. W.
Daly, W. M.
Donworth, Wm.
LA GRANGE—Oyster, W. E.
LAMAR—Adams, E. H.
Barth, A. H.
Humphrey & Bro.
LANCASTER—Freidrich, C. C.
LEBANON—Bantley Bros. Hardware Co.
Koby, Victor
LEWISTOWN—Thale, Aug.
LEXINGTON—King & Marrs
Yingling, C. E.
LIBERTY—Harlin, John W.
Poague, Cyrus B.
LOCKWOOD—Workman Bros.
LOUISIANA—Rose, C. B.
Suda-Buffington Hdw. Co.
LURAY—Combs & Webb
MACON—Demeter, E. A.
Jaeger Bros.
Mayer, Frank Hardware Co.
Patton, B. P.
Walker, W. P., Sr.
MARSHALL—Johnston, O. W.
MEMPHIS—Courtney, J. C.
Mount, J. E.
MEXICO—Garrett, Sidney
Redmond, W. H.
MILAN—Lane & Evans
MOBERLY—Stauffer, P. & Co.
MONETT—Floreth, W. H.
MONROE CITY—Jaeger, Alfred
Leake, J.
NAPOLEON—Gaeth, Carl
NEOSHO—Briggs Hardware Co.
NEVADA—Eppensauer, Jos. P.
Spillman, E. H.
Norman, W. F. Sheet Metal Mfg. Co.
NEW CAMBRIA—Nichols & Goodson
OLEAN—Inglish, F. W. & Co.
ORONGO—Stults, R.
PALMYRA—Best Bros. Hardware Co.
PERRY—Barr & McElroy
Coil & Fairbairn
Stehle & Son Stove Co.
PLEASANT HILL—Hon, W. W.
Pearce, M. E.
QUEEN CITY—Casper, Jos. T.
RICHMOND—Shoop & Smith
ST. CHARLES—Ebeling, Louis
Hug, Fred T.
Heye, Thos.
Nolle, Louis
Pallardy, L. L. & Co.
ST. JAMES—Burge, J. F.
ST. JOSEPH—Carey, Phillip & Co.
Carolus, Geo. A., 1703 Frederick av
Cramer & Geiwitz, King Hill & Colo av
Curtin-Clark Hrdw. Co.
Gehrs, Herman J., 1019 S 8th
Kamler, John J.
Lieb & Choka
McCarthy Bros. & Co.
Parrish-Erickson Hdw. Co., 115 S 6th
Rich, Felix
Robertson, Wm. J. (Gravel)
Robertson, Wm. J. (Gravel), 922 S 6th
Schwein, Aug. Stove Co., 419 Edmond
Seaman & Schuske Metal Wks. Co. (Slate, Tile, Metal & Asphalt), 1604 Frederick
Wehrman, Wm. (Slate & Metal), 119 N. 2d
Welbers, W. J., 1106 Farson
Whelan, Alex. T. (Slate & Metal), 1001 S 10th
ST. LOUIS—Ahrens, Fred'k, 7120 S B'way
Amrhein, Jacob, 1410 S 18th
Arcade Tinning & Slating Co. (Slate, Tile & Metal), Arcade bldg
Bangor Slate & Tile Co., 4231 Linton av
Bannon, Jno. F. & Co., 1601 Lafayette av
Bence, Joseph, 1428 Monroe
Bockhorst, A. M., 14th & Gay
Bokern, Frank T., 217 Market
Brinkmann, John H. & Sons, 1913 Olive
Brothers, W. H., 1109 Chestnut
Burke, Jas. H. Roofing Co., 800 Market
Caine & Miller, 2430 Cass av
Campe, Wm. J., 1921 Franklin av
Carondelet Roofing Co. (Comp., etc.), 5832 S Compton av
Central Slate & Tile Roofing Co. (Slate & Tile), Ohiental bldg
Clarkson, J. L., 6325 Easton av
Condon Bros., 1026 Market
Cook Ready Roofing Co. (Comp., etc.), 932 S Sarah
Davis, Wm. R., 718 N Vandeventer av
Decker, E. G., 3330 S B'way
Deemar, Geo., 6414 Etzel av
Dockery Heating & Sheet Metal Co., 3615 Easton av
Doerste, Herman H., 4728 Hanover av
Eberle, J. & Son., 4014 Leclede av
Ellmen, Louis, 1008 N 7th
Erier, Rich. A., 2372 Shenandoah
Etener, Julius L., 4740 Delmar boul
Excelsior Cornice Co., 7821 Ivory av
Excelsior Roofing Co. (Felt, Comp. & Gravel), 4642 Easton
Finger, Geo. & Co. (Gravel, etc.), 2008 Russell av
Giesow Cornice & Furnace Works, 3721 Cass av

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Gilsonite Construction Co. (Tile & Comp.), Wainwright bldg
Godfrey, W. E., 8039 N B'way
Goergen Bros., 906 High
Gossel, Chas., 5566 Page av
Green, McRee (Slate & Tile), 4633 Demar
Gruendler, A. A., 1018 Cass av
Grundorf, John W., 1600 Blair av
Hahne, Wm., 2124 Gravois av
Halpin, James Mfg. Ca., 1513 Chestnut
Hammermeister, Otto A. (Gravel, etc.), 332 Lemp av
Harris, Chas. F. Hdw. Co., 4298 Finney av
Hayden, John A. Slate Co. (Slate & Tile), 2006 Locust
Heagen, J. M. (Comp.), 1530 Morgan
Herman Cornice Co. (Slate & Tile), 1916 Union av
Higgins, Frank B., 924 N 6th
Higgins, John F. Mfg. Co., 5619 Easton av
Hopmann Cornice Co., 2500 N Jefferson av
Huber Cornice Co., 2520 Newhouse av
Huhn, Edw., 631 S 4th
Hummert, Wm., 1513 Chestnut
Independent Gravel Roofing Co. (Gravel, etc.), 4021 Pleasant
Jarolimek, F. J., 1869 S 12th
Jordan, Wm. M., 1123 Market
Kestranek, Jos. & Son, 2907 McNair av
Keystone Roofing Co. (Comp., etc.), 11th & Walnut
Kleinbenn, Henry, 2637 Chouteau av
Kilnlein, H., 1413 Old Manchester rd
Knox, Thos. E. & Co., 4608 Easton av
Koch, Moritz, 281 Manchester av
Koelsch, Wm., 1124 Buchanan
Kohlmeyer, Geo. E. (Slate & Metal), 8222 N B'way
Krauss, Anthony L., 4260 Easton av
Krueger, Walter, 3547 Arsenal
Kuthe, Max, 3214 Franklin av
Lampert Bros. Mfg. Co., 3259 N 19th
Larkin, Michael P., 2823 Easton av
Lintzenich, Joseph W. (Slate & Tile), 810 Olive
Lloyd, Geo. E. (Slate, etc.), 1210 Dolman
Loch, Charles H., 1023 N B'way
Lorenz, Chas., 2615 Bismarck
McCracken, C. E., 4250 Hartford
McHenry, Thos. & Sons, 3960 Easton
Macmahon Roofing Co. (Gravel, etc.), 4118 Evans av
Mager, Philip W., 810 S 4th
Mason, Wm. C., 9 Wash'n av
Mattfeldt, A. D., 406 S 2d
May, John, 2833 Chouteau av
Mechanics Roofing Co. (Louis Latel), (Composition, etc.), 2722 N 9th
Meeh & Reiss, 7321 Manchester av
Merkel, Herman, 509 Elm
Modern Cornice Co., 4508 N 20th
Moll Bros. Gravel Roofing Co. (Gravel Feet, etc.), 2818 Dayton
Moran, G., 10 N 10th
Mound City Roofing Co. (Comp., etc.), 3308 Nebraska av
Mueller, Adolph, 911 N 9th
Murkiff, Patk. B. 4975 Easton av
National Sheet Metal Mfg. Co., 2214 Pine
Naughton P. S. Slate Roofing Co. (Slate, etc.), 3620 Laclede av
Nitka & Lidauer, 1725 S B'way
Ogden, Jos. B., 1100 Ohio av
O'Toole, Edw'd F., 7935 N B'way
Palubiak, John & Son, 4107 Chippewa
Pesch Roofing Co. (Comp., etc.), 3308 Nebraska av
Powers & Boyd Roofing & Cornice Co. (Slate & Metal), 3614 Laclede av
Putney Roofing & Plumbing Co., 4005 Cook av
Reardon, Timothy M., 1413 N B'way
Riddle, Geo. A. & Co. (Slate, etc.), Odd Fellows bldg
Rindler & Bornstein, 1135 N B'way
Root, W. L., 1905 S Jefferson av
St. Clair Roofing Co. (Comp. & Gravel), 921 Chestnut
St. Louis Cornice Co. (Slate & Metal), 1914 Union blvd
St. Louis Roofing Co. (Felt, Comp. & Gravel), Wainwright bldg.
St. Louis Slate & Tile Roofing Co. (Slate & Tile), Chemical bldg
St. Louis Tin & Sheet Metal Working Co., 6th & Clark
Santen, John H., 815 Allen
Sarber, Chos. D. & Co., 716 N Kivay Bl.
Satterfield, John G., 4253 John av
Schmidt, Otto, 821 Market
Schneider, Chas. G., 2711 Arsenal
Sellers, Jno. M., Wainwright bldg
Sidler, B. & Co., 1823 N Taylor av
Smith, E. B. De Hodiamont Gravel Roofing Co. (Gravel, etc.), 6435 Olive St. Rd
Spellmeyer, Otto, 2519 S 2d
Standard Roofing Co. (Comp.), 1109 Chestnut
Stirrat, James, 4240 Olive
Suda, Louis M., 1551 S Jefferson av
Sybertz, Frank, 507 Clark av
Sydow, Herman, 6333 S B'way
Sydow, John, 7828 S B'way
Terpenning, F. W., 21st & Adams
Tiernan, Luke, 1019 Chestnut
Tipton & Mackey Mfg. Co., 4948 Easton av
Toomey, Michael J., 3648 Cote Brilliante
Tower Roofing Co., 4253 John av
Trinidad Asphalt Mfg. Co. (Asphalt, Comp., etc.), 320 S 21st
Uhrig & Jenne Tinware & Roofing Co., 219 S 14th
Union Gravel Roofing Co., 2219 La Salle
Wallrapp, Louis, 455 N Sarah
Wehmeyer, Frederick, 1435 St. Louis av
Welsch, Geo. L., 5605 Manchester av
Welch, John W., 7351 Manchester av
Western Slate Co., 11th & Walnut
White, Thos. H., 2225 Sidney
White, Thos. Jr. (Slate & Tile), 4112 Connecticut
Wiegreffe & Heintz, 1463 N Market
Williams Roofing Co. (Slate), 4331 McRee av
Wunderlich, George, 1410a Salisbury
Young, C. (Comp. & Gravel), 2615 Victor
Zacharias, Wm., 1209 Park av
Zesch, Otto E., 2618 Laclede
Zitko, Charles, 17 N. Ewing av
Zuber, Gottlieb, 3117 S B'way
Zurcher, John T., 1428 Monroe
SEDALIA—Ilgenfritz Hardware Co.
Perrin, Thos.
Sedalia Hardware & Bro. Co.
Werner, A. F.
SHELBYVILLE—Miller, N. C.
SLATER—Jenkins, R. T. & Bro.
SPRINGFIELD—Anslinger, Kate D., Sheet Metal Works (Slate & Metal), 212 E Walnut
Baum Hardware Co.
Carmack & Rathbone, 510 Commercial
Speaker, Ernest, 323 Boonville
Welhenef, William
STOUTSVILLE—Walters & Kincaid
SWEET SPRINGS—Rembert, A. S.
TINA—Evans, E. L. (Est. of)
TRENTON—Witten Hardware Co.
WARRENSBURG—Carpenter, M. B.
Warnick Bros.
WASHINGTON—Busch, E. G. & Co.
Dickbrader, H. J.
Poppenhausen, William
WEBB CITY—Mead, T. W.
WENTZVILLE—Wullschlegel, Fred.
WESTON—Schwope & Mitchell
WEST PLAINS—Dressler, C & Co.
Fitzgerald, M. G.
WHEELING—Smiley Bros.
WINDSOR—Bowman, S. F.
Davis, H. T.
WYACONDA—Bowman, Jno.
Matthews, Jas. C.

## MONTANA.

ANACONDA—Copper City Commercial Co.
Stagg, J. P.
BILLINGS—Yegan Bros.
BOZEMAN—Groesbeck, J. D.
McCay, Harry E.
Reeder & Budd

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BUTTE—Anaconda Copper Mining Co. (Hardware Department)
Canonica, Anton
Seubert, Fred
DEER LODGE—O'Neill Hdw. & Plumbing Co.
Trask, M. W.
GLENDIVE—Lowe, Wm.
GREAT FALLS—Minter, Gus G. (Gravel & Metal)
HELENA—McKinnon, H. A., 405 N Main
Mitchell, John (Slate & Metal), 352 N Main
Rummell, Mrs. A. M.
KALISPELL—McIntosh Hdw. Co.
Missoula Mercantile Co.
LEWISTOWN—Judith Hardware Co.
Mont Hardware Co.
St. Clair, J. H.
MISSOULA—Elliott, Geo. L.
Missoula Mercantile Co., 102 Front
Payne, E. H.

## NEBRASKA.

AINSWORTH—Oakley, A.
ASHLAND—Clarke Hardware Co.
BEATRICE—Claypook, James
Lock, Ira D.
Pyle, Clifford G.
BROKEN BOW—Grant, W. D.
COLUMBUS—Boyd, R. C. & Son
FREMONT—Lee-Miller Hardware Co.
Smith, F. M. & Son
GRAND ISLAND—Hehnke & Co.
Lederman, A. C. Co.
McAllister, R. H. & Co.
Rettenmayer, F.
Wingert, J. A.
HASTINGS—Rundall, A. L.
HOOPER—Heine, J. F. & Son
KEARNEY—Bodinson, C. F. Hdw. Co.
Hubbell Bros.
LEXINGTON—Bancroft, J. S.
Zepf, Geo.
LINCOLN—Hall Bros. Co.
Keller, John, 1435 O
Krause, W., 806 O
Nichols Roofing Co. (Comp.), 413 S 7th
Way, Palmer, 2217 O
McCOOK—Polk Bros.
Waite, H. P. & Co.
NEBRASKA CITY—Henry & Fischer
Kuwitzkey, Horace
Ziels, G. W.
NORFOLK—Degner, Albert
Friday, Jno.
Laubsch, Carl S.
NORTH PLATTE—Fillon, Jos. T.
OMAHA—American Supply Co.
Barrick, Edw'd Roofing Co. (Asphalt, Comp., Felt, Gravel, Slate, Tar, etc.)
Bjornson & Haas, 214 N 15th
Carter, R. L.
Compton, F. W.
Elsasser & Andreesen
Globe Cornice Works
Haberstroh, W. A., 4038 Hamilton
Hauth, Philip, 3124 S 20th
Heaton, W. S.
Hempel, Fred
Hess, V. N.
Kastl, J. F., 1414 S 13th
Koch, G. E.
Koopman & Hilbert
Krelle, C. F., 610 S 13th
Kunde, H. A.
McMahon, John M.
Mica Roofing Co. (Mica & Gravel)
Miller & Peterson
Morehouse, R. H. Co. (Tar)
Munroe, Alexander
Murray, D. E.
Nast & Son
National Roofing Co. (Slate, Gravel, Mica, Tile, etc.), 50 Ware bldg
Ogle, C. W.
Olson Bros., 2570 Leavenworth
Savage, Edw'd, 2822 Farnam
Simon, Wm.
Simonson & Norby, 1705 Cuming
Stevenson, J. R. & Co. (All Kinds)
Sunderland Roofing & Supply Co. (Magnesia)
Thrane, L. C., 509 S 10th
Wiig & Son, 713 S 27th
O'NEILL—Davidson, James
PAPILLION—Pacey, E. D.
PLATTSMOUTH—Kroehler Bros.
RULO—Winterbottom, Jno. S.
SOUTH OMAHA—Griest, M. W.
Jensen, Ferd.
Larsen, Rudolph
Wright, Sanford
SUTTON—Carney, S.
WACO—Tinker, C. W.

## NEVADA.

CARSON—Millard, A. J.
EUREKA—Cromer, L. W.
RENO—Genesy, B. J.
Nevada Hardware & Supply Co.
Nevada Sheet Metal Works

## NEW HAMPSHIRE.

ALTON—Buckley, Paul E.
AMHERST—Taylor, F. C.
ANTRIM—Hunt, Geo. W.
ASHLAND—Sanborn, E. W.
BELMONT—Barrett, W. J.
BERLIN—Berlin Mills Co.
BRADFORD—Marshall, Chas. H.
CANAAN—Eastman, Daniel
CLAREMONT—McGrath, John (Slate, Felt & Gravel), 48 Summer
CONCORD—Britton, A. H. & Co.
Darrah, W. E. (Gravel & Slate), 156 N Main
Hobson, J. Edgar
DOVER—Hayes, Henry G.
Kennedy, Jas. H. (Slate & Gravel)
Littlefield, Frary & Co., Wash'n st
Snow, Geo. W. (Tar & Gravel), 4th st
ENFIELD—Fogg, Fred. A.
EPPING—Ladd, John S.
EXETER—Young, Augustus
FARMINGTON—Thayer, W. F.
FRANKLIN—Judkins & Wallace
HANOVER—Brown, Chas. D. & Co.
Ford, E. T.
HENNIKER—Connelley, Edw.
HILLSBORO—Newman, W. E.
HINSDALE—Taylor, H. W.
KEENE—Kirk & Sewall
Pearson Bros.
LACONIA—Dow, Geo. A.
Smith, James S. & Co.
LAKEPORT—Brawn, W. H.
Dame, C. C.
LANCASTER—Moore, L. F. (Est. of)
LEBANON—Hildreth, C. M. & Son
LITTLETON—White, R. P.
MANCHESTER—Blood, F. W. Roofing Co.
Briggs, Thos. J. (Slate & Metal)

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Darrah, Geo. W. (Slate & Gravel)
Knoettner, Geo. & Co.
Lawson, H. J. (Slate & Metal)
Logan, John E.
Mansaeu & Grimard
Moreau, J. J. & Son (Slate, Metal & Gravel)
Noyes, Fred L.
O'Brien, Martin
Pike & Heald Co. (Slate & Metal)
MARLBORO—Harlow, Edw.
MEREDITH—Pynn & Graham
MILFORD—Colby, Chas. H.
MILTON MILLS—Murray, Daniel
NASHUA—Clarke, E. W. (Slate & Metal), 12 Tyler
Sanders, Jas. A. (Gravel, etc.), 7 Union
Woodbury, A. K. & Co. (Felt, Comp. & Gravel), 42 Arlington
NEW MARKET—Griffin, Jno. H.
NORTH HAMPTON—Philbrick, C. W.
PENACOOK—Baty, Isaac
Bean, W. A.
PETERBORO—Fish, A. E.
Nichols Bros.
Parkhurst Bros.
PITTSFIELD—Nutter, M. Henry
PORTSMOUTH—Paul, Willard E.
Sweetser, John P.
ROCHESTER—Bailey, C. M.
Judkins, C. E.
SANBORNVILLE—Haynes, J. M.
SOMERSWORTH—Murray, Jas. W.
TILTON—Greenwod, Joseph
Smith & Smith
WALPOLE—Morse, Chas. W.
WOODSVILLE—Mulliken, A. F. & Son

## NEW JERSEY.

ALLENTOWN—Rorer, W. H.
ALLOWAY—Darlington, A. L.
ARLINGTON—Whitefield, T. J. (Slate & Felt)
ASBURY PARK—Burke, E. G.
Day, Edward & Son
Griffin, James F.
Hutchison, Addison, Bradley Beach
Rugarber, Charles
Ryno, John (Slate)
Van Cleaf, E. C.
Warren, Ebret Co.
ATLANTIC CITY—Atlantic City Cornice Wks
Currie Co.
Fels, J. Frank (Com., Gravel & Slate)
Frey, Jacob J.
Giffin, V. B. & Son
Guttridge, Oliver H.
Harris, Wm. & Co.
Horan, Michael J. (Slate)
Huckel, Ellwood B.
Jaspan, Morris (Metal)
McDevitt Bros. & Co.
Reinhart, Samuel A.
Scull, Thos. E.
Stevens, B. L.
Swank, James A.
Sykes, Jno.
Taylor, S. C.
Van Note, Alvin
BAYONNE—Byrke, J. P.
Devaney, J. J. (Slate & Metal), 297 Av D
BELMAR—Crowther, Wm. B. Jr.
Mowry, Sam'l
Haberstick, Samuel
Reichey, Wm. W.
Walsh, J. J.
Williams, T. H.
BELVIDERE—Perry, D. & Sons
Widenor Bros.
BERNARDSVILLE—Bromfield, W. R.
Buist, David, Plumbing & Heating Co.
Davis, H. J.
Griffith, Charles H.
BEVERLY—Cryathorn, Isaac T.
BLOOMSBURY—Kremer, Geo. B.
BLOOMFIELD—Ernst, August
BOONTON—Kopp's, J. I. Sons
BORDENTOWN—Enright, James & Co.
BOUNDBROOK—Gillespie, S.
Voorhees & Giles
Zepp, William
BRIDGETON—Adams, Harry L.
Anderson & Bro.
Harper, Geo. W.
Moore, Wm. F.
BURLINGTON—Barclay, Robert W.
Buck, Isaac W. (Est. of)
Estilow, Leon
Fireng, Franklin G.
Jobes, George W.
BUTLER—Harmon, John
CAMDEN—Austermuhl, Geo. (Metal), 23 N 3d
Bigler, Geo. E., 2800 Sherman av
Childrey, T. D. & Son, 7th & Kaighn av
Cole, Chas. A. Co. (Slag)
Curry, Frank
Dobbins, Oscar C. (Gravel, Comp., Slag & Slate), 38 N 5th
Doughton, Wm. H., 421 N 8th
Farrell, Danl., 106 N Front
Hunsinger, Wm. E., 741 Walnut
Johnson, John W. (Slate, Comp. & Gravel).
Klostermann Bros. Co. (Slate & Metal),
Kreher, Herman 1016 B'way
Kurth, Chas., 836 B'way
Lounsberry, Harry C., 539 Arch
McFerren, Geo. W., 328 Arch
Metallic Mfg. Co., 232 Spruce
Moore Bros. (Slate & Metal), B'way & Clinton
Neutze, Jacob, 510 S. 5th
Reihmann, Max, 713 W 28th
Schrack, Welling G., 513 Federal
Sigle, C. R. (Slate), 24th c Federal
Spaeth, G. F., 512 Chestnut
Trego, W. R., & Co., 505 N. 5th
Vandersdlice, Thos. A., 523 Federal
Welsh, Geo. W., 744 Mt. Vernon
Whitehead, Caleb C. (Slate, Comp., Slag & Gravel), 26 S 5th
CAPE MAY—Curtis, B. S.
Shallus, C. K.
Swain, Chas. A.
CEDARVILLE—Danzenbaker, J. L.
CLINTON—Butler, W. G.
COLLINSWOOD—Albertson, Chas. R.
CRANFORD—Doyle, John
DOVER—Searing, W. W. (Slate)
Swackhammer, P. W.
EAST ORANGE—Blair, Saml. J. (Slate)
Harrison & Walker, 341 Main
EGG HARBOR CITY—Hofmann, V. P.
Woerner, Albert
ELIZABETH—Apgar Bros.
Behm, F. B.
Brucklacher Bros., 1165 Elizabeth av
Caskie, John W. (Slate)
Commonwealth Roofing Co. (Gravel & Slag)
Dederick, James W., 115 Fulton
Desmond & Connell
Elizabeth Cornice Works, 27 S Union
Elizabeth Roofing Co. (Tar & Gravel)
Fauelks, Jas. H. Co.
Hadden, Elias W. (Felt), 1177 E Grand

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Heald & Kuhn
Hetzel, J. G. Estate (Slag, Gravel, Slate & Tin)
Hoffman, Louis G.
Lehigh Slate Roofing Co.
MacGregor & Mulford
Mecabe, Louis C.
Messing, George, 1009 E Grand
Miller, F. Stanley, 120 1st
Pratt, Louis F. C. (Slate)
Wagner, Geo.
Walker, W. J., 5 Washington av

ELMER—Barber, L. R.
Wentzell, Geo. A.

ENGLEWOOD—Beggs, R. D.
Dubois, Chas. L.
Hickey & Baker

FLEMINGTON—Kline, Jas. A.
Weiler, Chas. V.

FREEHOLD—Denise & Buck
White, Alonzo

GLOUCESTER CITY—Batten, L. C.

GUTTENBERG—Greenthaler Bros.
Schellman, V. M.

HACKENSACK—Cleveland, E. M.
Leder, M. H.
Van Orden, C.

HACKETTSTOWN—Osmun Co.
Titus, Frank P.

HADDONFIELD—Bennett & Dreyer
Eisele & Manning

HAMBURG—Linn, Jno., Jr.

HARRISON—(See Newark)

HIGHTSTOWN—Skillman, A. T. (Gravel)

HOBOKEN—Dorsett, T. W., 1113 Clinton
Haensel, Herman, 307 2d
Hansen, Arnold C., 152 4th
Kennedy's, John, Sons, 315 Newark
Lang, Chas., 602 Monroe
Leonard Sheet Metal Works (Inc.), 219 Grand
Mohn, Chas. A., 156 7th
Mohn, W. J., 56 3d
Neumerkel, Max, 158 4th
Roenier, Adolph F., 158 6th
Salmini, Manuel F., 739 Bloomfield
Schroeder, B., 60 6th
Stein, J. K.
Wagener, John H., 418 Bloomfield

HOPE—Bryan, C. E.

IRVINGTON—Central Cornice & Skylight Works (Slate & Metal)

JAMESBURG—Jennings, Frank (Slate)

JERSEY CITY—Anderson Bros. Co., 394 Grove
Apolant, E. A., 202 4th
Boyle, C. I., 113 Tonnele av
Brander, H., 365 2d
Clark, Halsey K., 320 Henderson
Commonwealth Roofing Co. (Comp.), Grove
Cooper & Wade Sheet Metal Roofing Co., 339 Grand
Cross, Wm. J. Co., 157 Webster
Donovan, Daniel F., 36 Huron
Driscoll, Jas., 527 Grove
Drury Bros., 192 York
Dupont, Geo. R., 41 Greene
Fleischmann Bros., 154 Montgomery
Geraghty, Geo. L., 353 3d
Hamilton, W. K., 215 Randolph av
Hanby, Archibald J., 128 Newkirk
Hauser's, F. Sons, 207 Newark av
Helfrich, Wm., 155 St. Paul av
Henderson, J., 302 Fairmount av
Hennigsen, Hy. (Slate, Tile & Metal), Bright
Holbrook & Thompson Roofing Co., 1 Mont'y
Keenan, Luke, 463 West Side av
Lillis, M. D., 141 Pavonia av
Lyons, M. J., 795 West Side av
Miller Metal Works Co., 411 St. Paul's av
NATIONAL SHEET METAL ROOFing Co. (Slate, Gravel & Metal), 339 Grand. (See adv. index, end of book)
Nevins, O. W. (Tar, etc.), 15 Garrison av
New York Iron Roofing & Corrugat'g Co., 1st
New York Roofing Co., Grove
O'Halloran, J. J., 525 Communipaw av
Pinsler, L., 170 Grand
Pitts, Chas. L. Co., 210 16th
Rader, F. W., 411 Fairmount av
Rader, Henry (Slate & Metal), 25 Thorne
Ringle, Jacob & Son (Slate, Tile & Metal), 83 Newark av
Schiereck, C. W., 66 Cambridge
Schmitt, Chas., 1145 Summit av
Schreck & Waeltz, 27 Hague
Sethmann, Herman, 234 Monticello av
Spotts, F., 490 West Side av
Sproul, Jos. A., 301 Monmouth
Stewart, J. A., 33 Williams av
Stowell Mfg. Co., 240 Culver av
Treinis, J., 240 Monticello av
Walsh, Dennis F., 535 Jersey av
Walsh, John J., 183 Montgomery
Weigel, Joseph L., 155 Neptune av
Wimmer, Jacob, 165 New York av

KEARNY—(See Arlington)

LAKEWOOD—Davidson, J. F.
Turner, John N.

LAMBERTVILLE—Duffy, P. F.
Holcomb, S. L.
McLean, Ross, 338 Broad

LONG BRANCH—Basham, Jas. J.
Bazley & Burns
Clark, Jno. Jr.
Jackson, W. K.
Smock, Howard
Warwick, Wm. R. Jr. (Slate & Metal)

MADISON—Allen, Geo. A. (Slate)
Burnett, Jas. E.
Would Bros.

MANASQUAN—Marks, Robert A.

MATAWAN—Geran, W. D.

MERCHANTVILLE—Fisher, Geo. A
Fortner, U. S.
Miles, Wm.

MILLBURN—Bailey, F. S.

MILLVILLE—Brandriff, A., Jr.
Brandriff, Porteus
Gray, H. A.

MONTCLAIR—Crane, I. Seymour
Heller, P. J.
McInvid, J. B. (Slate)
Summers, Clinton (Slate)

MOORESTOWN—Measy, F. A.
Worrell, E. C. Co.

MORRISTOWN—Byram, W. G.
Kay, Wm. J. (Slate & Metal)
Tompkins & Welsh

MOUNT HOLLY—Brannan Co.
Stead, Elwood
Worrell, Geo. D.

NEWARK—Allwood, J. R. & Son (Slate, Gravel, Felt, etc.), 39 Marshall
Amend, Peter & Sons (Slate, etc.), 53 1st
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American Roofing Co. (Slate), 382 S 29th
Apple, Leon, 287 W Kinney
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Baier & Conrad (Cement, Gravel, Felt, etc.), 336 Hunterdon
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Brady & Schall, 27 State
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Commonwealth Roofing Co. (Gravel, Felt, etc.), 54 Alpine
Crappse & Ellerman (Asphalt, Slag, Gravel, Slate & Metal), 743 S 20th
Crawley, Geo. M., & Sons, 498 Broad
Degnan, Peter A., 330 Bloomfield av
Ding & Teuscher, 476 18th av
Drummond, W. H., Co., 60 Lafayette
Dunn, Walter P., 42 Mechanic
Elin, David M., 16 Avon
Endlich, Henry, 149 Bloomfield av
Engelberger, F. & W. V. Co., 159 Jelliff av
Faas, Frederick J., 930 S. Orange av
Farber Plastic Roofing Co., 238 Belmont
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Fuerst, Frank, 722 Bergen
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Gordon, S. W. & Co., 635 Warren
Graham, David, 115 S Orange av
Griglietti, Robt., 16 Gray
Groel, Henry F. & Son, 54 Belmont
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Hammond, Theo. C., 13 Ferry
Hampton, R. & Co., 138 Norfolk
Hanley, Jas. F. Co., 231 Ferry
Harris, Barney B., 92 Livingston
Hergott, Robt. (Slate & Tar), 216 Grove, E
Herron, Philip T., 48 Sussex av
Hetzel, John G. (Est. of) (Slate, Felt, Cement & Gravel), 67 Main
Holliday, Alfred E., 415 Halsey
Hornung, Fred, 52 Belleville av
Hutchison, James C., 135 Bloomfield av
Jacobi, Wm., 100 New
Katz, Leon, 206 Prince
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Kelley, Thos. F., 19 Parkhurst
Koether, Rudolph A., 17 Court
Kolb, Chas. H., 21 Camden
Kramarich, Anton, 103 Belleville av
Krause, Albert (Tar & Asphalt), 9 Kent
Lacmann Bros., 198 Ferry
Laible, Jacob, 63 Belmont
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Leonard, Edson B., 14 Lombardy
Levine, Saml., 225 W Kinny
Lowe Bros., 207 Berkeley av
Lusinger, Chas. (Tar & Felt), 146 Delancey
Lutz, Elmer, 89 New
Lynn, Hugh, 99 Belleville av
McGuire, James C., 340 Plane
McLean, Ross, 338 Broad
Macknet & Doremus (Asbestos), 796 Broad
Maire Bros. Co., 41 Bloomfield av
Marshall, Wm. C., 851 Mt. Prospect av
Merkel, Fred P., 533 Central av
Mosias Barnhard, 66 Bruce
Newark Cornice & Skylight Wks, 9 17th av
Newark Tinware & Metal Works, 28 Di-vision pl
Perry, Geo. F., 451 Wash'n
Pitts, Charles L. Co., 58 E Park
Rau, Jacob. Jr., 43 W Kinney
Robinson, J. A., 87 Madison
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Schaubert, Emil O. (Tin), 104
Schmidt, Ralph B. Co., 62 Ann
Sculley, Michael, 130 N. J. R. R. av
Silodar & Sirota, 133 Somerset
Silver Roofing Co., 707 S 14th
Simpson, A. J., 223 Clinton av
Sippel, Theodore A., 205 McWhorter
Smith, Luman (Tar, Felt & Gravel), Oliver
Spatcher, Wm., 121 Union & Mulberry
Stadelhofer, Max, 232 Orange
Staib, G. J. Co. (Slate, Slag & Gravel), 318 Mulberry
Steinberg, Jacob, 229 Belmont av
Steiner, Emil E., 58 Union
Stickel, Geo., 101 Union
Stoepel, Geo., 234 Ferry
Stone, Chas. H., 110 Thomas
Storms & Co., 128 S 14th
Strebinger, Chas. Sons, 412 Morris av
Struening, August, 431 S 6th
Sturn, F. J. Co., 43 Hill
Taaffe, A. & Co., 94 Plane
Thompson, John, 371 Washington av
Thrush, Richards, 1081½ Roseville av
Turner, Chauncey N., 28 Belleville av
Virtue, Wm. E., 89 Pennsylvania av
Wagner's, Adam Sons, 176 Ferry
Van Duyne, Ellsworth, 280 5th
Van Hise, Howard, 129 Lafayette
Waissaly Bros., 163 Broome
Ward, Chas., 308½ Broad
Weithauf, Frederick, 408 Avon av
Wolff, W. D. & Co., 592 Orange
Wolstencroft, T. W., 7 Summer av
Wuner, Edward M., 57 Merchant
Zeitler, Robert, 190 Hillside av
Zeliff, Winslow, 350 Belleville av
Zeuglein, John A., 45 Winans av
Zimmermann Co., 291 Market
Zipf, Fred'k W., 110 Ferry

NEW BRUNSWICK—Huston, Wm. J. (Slate, Huston, Wm. J. (Slate, etc.) etc.)
McFadden, Michael
Price's, H. M. Sons, 249 Burnet
Smalley, Wm., Jr., & Bro., 33 Albany

NUTLEY—Faith, E. E.
Hayes, Thos.

ORANGE—Hindle & Williams, 295 Main
Meyers, Wm., 113 Centre

PASSAIC—Actinolyte Roofing Co.
Falstrom & Tonquist Co.
Geene, M. P. (Slag, etc.)
Greiner & Knapp
Hubinger, Chas.
Tornquist Co.

PATERSON—Baird, Jno. (Slate, Tile & Metal), 79 Mill
Beaumont, John & Sons, 53 Market
Mawhinney, John, 60 Jasper
McNeil, Lawrence W.
Quinn Bros. (Slate & Metal), 9 Fair
Rogers, Andrew J. Co. (Slate & Metal), 90 B'way
Rutt Bros. (Slate, Slag & Gravel), E 27th
Van Houten, W. T., 43 River
Weber, Adolph
Whritenour, Geo. P., 20 Hamburgh av
Woods, Andrew, 360 Main

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PAULSBORO—Furry, B. Frank
Roberts, Seth
PEMBERTON—Jones, Jos. O.
PENN GROVE—Dalbow, Jacob K.
PERTH AMBOY—Burns, Jas. F.
Galvin, Richard J.
Jahn, R.
Kelly & McAlinden
New Jersey Roofing Co.
Perth Amboy Cornice Wks.
Seel, Chas. (Slate)
PHILLIPSBURG—Baty, Philip
Folk, J. H.
Harines, Wm. H.
La Barre, Aaron
PLAINFIELD—Graves, Charles C., 819 S 2d
Griffin, A. M., 119 E Front
Mills, W. W.
PRINCETON—Stryker, A. Y.
Welch, Bros.
Worrell, Shinn & Co.
POINT PLEASANT—Shoemaker & Johnson
RAHWAY—Marsh, Jno. J., 137 Main
Tombs & Roarke, 28 Main
RARITAN—Wyckoff, Jas. C. (General)
RED BANK—Cook & Oakley
Sutton, Jno.
RIDGWOOD—Banta-Owens Plumbing Co.
Moore, W. H.
Morgan, Wm. P.
RIVERSIDE—Orfe, G. J. & Son
RIVERTON—Lynch, Wm. B.
Worrell, Harry C. (Slate & Metal)
ROCKAWAY—Rockaway Hardware & Stove Co
RUTHERFORD—Black, Wm. & Co.
SALEM—Casper, Chas. W.
Gibson, Wm. S.
Guest, C. B.
Righter, J. C.
SCOTCH PLAINS—Jahn's, Robert Sons
SEA BRIGHT—Nesbitt, E. S.
SOMERVILLE—Mundy, T. C.
Sargeant Bros. (Slate)
SOUTH AMBOY—Carberry, Jas.
Lovely, Thos.
SOUTH ORANGE—Kitchell, J. L. & Son
SWEDESBORO—Reid, J. M.
Sparks, A. C.
Sparks, H. H.
Sparks, M. C.
TOMS RIVER—Brandt, Amos A.
Van Nostrand, E. S.
TOWN OF UNION—Henry, Eugene
Schmidt, C. & Bro.
Tischler Bros.
Victori, E. & Son
Weisman, Geo.
Wolpert, M. C.
TRENTON—Arundale, Merrick, 442 N Clinton av
Bennett, Jos. G.
Donlan, J. Damon
Doudiken, Thos.
Farrell Bros., 109 E Hanover
Fell, Henry R. Co. (Slate, Tile & Slag
Nitz & Johnson
Olinsky, Morris, 63 Union
Pierson, L. C. (Slate)
Purvis, G. H., 319 S Warren
Remmele, Henry
Royle, Elmer E., 14 Lincoln av
Rugaber, Reinhart, 205 Cleveland av
Seiger, Morris, 23 E Front
Skirm, A. A. & Son, Broad & Perry
Smith, G. E.
Street, S. F.
Tuesday, F. S., 329 Liberty
Voorhees, Elmer E., 462 W Hanover
Voorhees, Geo. D. & Sons, 181 Pennington av
Willever, Frank C., 1019 Chestnut av
VINELAND—Austin & Turner
Bagg, W. L.
Himes & Barreta
Read, Jno. H.
WASHINGTON—Flint & Hall
Johnston, Jas. H.
Wildrick, J. H.
WEST HOBOKEN—Gutschmidt, Wm. H., 810 Poeschel, Osman, 614 Spring
WEEHAWKEN—Schumann, E., 115 Lewis
Vincent, F., 207 Dodd
Wolpert, M. C., 514 3d
WESTFIELD—Carpenter, W. Irving
Ferris, Mahlon H.
WEST NEW YORK—Gronberg, C. C.
Litner, Bluma
Merkel & Jerke
WESTWOOD—Demarest, Wm. C.
Heller, I.
WOODBRIDGE—Humphrey, Robert
Moore's, E. F. Sons
WOODBURY—Kleinhanz, John V.
Sampson, Chas. E.
Thompson, David K.
WOODSTOWN—Lippincott & Hunt

## NEW MEXICO.

LAS VEGAS—Vogt & Lewis
Vogt & Lewis
SANTA FE—Failor, H. J.
TUCUMCARI—Cecil, W. E.
Morris, J. T.

## NEW YORK.

ALBANY—Ackroyd, James & Sons (Comp., Slate, Metal & Tile), 966 B'way
Campbell, Chas. C., 82 Washington
Delehanty's, M. Son, 26 Green
Doody, James H.
Eglinton, Sidney J., 125 Beaver
Enselein, Chas. H.
Fitzgerald, Jno. L., 22 Beaver
Gersbach & Schafer, 17 Central av
Gillan, Hugh, Jr., 298 Sheridan av
Goetz, Edward (Slate & Metal), 211 S Pearl
Gorman, Jas. J., 65 Green
Hoffmann, J. H. B., 90 Green
Hood, W. R., 115 Hamilton
Hoy & Co.
Kerwin, T. E., 34 Howard
Kieley, Jeremiah
McKeon, Michael J.
Macnee & Rabe (Sparham, Slate, Metal & Gravel), 659 B'way
Marsh & Marsh
Oliver, Curtis S.
Peters, John G.
Rossner, Chas. H., 209 Jefferson
Ryder, Fred'k F. & Co.
Scott, Ed. D.
Sheehan, Joseph F., 125 Madison av
Shoor, Hyman
Walsh's Jas. D., Sons (Slate, Metal), Slag & Gravel), 40 Sheridan av
Warhurst, Archie
ALBION—Blott, Alfred
Waterman, G. M.
ALDEN—Patrell. W. R.
ALEXANDRIA BAY—Hartman, Henry
Thompson, W. H. & Son
ALTAMONT—Manchester, A. T.
Tabor, Chas. E.
AMENIA—Fry, B. H.
AMITYVILLE—Cort, Geo. W., Jr.
AMSTERDAM—Denison, J. L. & Co.
Jones, B. F. (Slate)
Kaiser & Freydenborg
Larabee, J. E., 5 Market
Lindsay & Doods
ANGELICA—Horner, S. G.
AUBURN—Armstrong, Charles, L. & Bro.
Giles, Fred E.
Herron, P. M. Hardware Co.
Smith, Jos. C.
Smith & Pearson, 102 Genesee
BABYLON—Ketcham, W. P.
Ohlmiller, Benjamin
BAINBRIDGE—Barlow & Clark
BALDWINSVILLE—Baker Bros.
BALLSTON SPA—Armer, Fred
Tracy Bros.
BATAVIA—Dawson, W. E. (Slate & Comp.)
Russell & Palmer
BATH—Brownell Co.
Gould & Nowien
Peck, G. W. Co.
Sutherland, Washington
BAY SHORE—Vail. C. W.
BERLIN—Lewis. W. H. & Son
BETHEL—Gabriel, Geo. D., Jr.
Sutter, Wm. E.
BINGHAMTON—Christie, Walter (Slate), 77 State
Crane & Lockwood, 12 Court
Folsom, R. W., 125 Washington
Freeman, E. G. & Co. (Slate & Metal), 81 Water
Harris, Geo. M.
Lynch's, J. R. Sons (Slate & Tin), 86 State
McIntyre & Hull
O'Neil, Matthew
Sullivan, Wm.
Young, John J.
BREWSTER—Avery, Silas O.
Smith, W. E.
BRIDGEHAMPTON—Sanford, J. A. & Son
BRIDGEPORT—Draper, Horace V.
BROCKPORT—Brennan & Adams
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Adema, Nicholas M., 274 Forest
Armbrust's, Jno. Sons, 789 Genesee av
Baird, Fred. H., 140 Erie
Bauer, Leonard, 105 Roehrer av
Bauer's, Chas. Sons, 159 William
Berkhouson, Geo. H., 221 Forest av
Berner, J. F. Hardware Co., 515 William
Bower, Geo. A., 193 Grant
Buffalo Repair Works, 448 Niagara
Carl, Otto, 50 E Utica
Christimann, Philip Jr. (Slate & Metal), 652 Elm
Christmann, Philip & Sons (Slate, Tile & Metal), 854 Virginia
Clarke, Silas, 335 William
Degenhart & Co. (Copper, Metal & Sheet Iron), 1910 Niagara
Eberz, Peter W., 1901 Niagara
Elsinghorst, Jno. H., 574 Michigan
Empire Roofing Co., 338 Eagle
Empire Slate Roofing & Supply Co., D. S. Morgan bldg
Fisher, Martin & Sons, 75 W Chippewa
Fix, Chas. J. & Sons Co., 808 Main
Freme, August J., 144 Gardner av

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103 Merrimac, Boston, Mass. (See adv. index, end of book)

Glinski, Anton, 1097 B'way
Grant, Gilbert, 315 Michigan av
Grove Roofing Co. (Comp. & Gravel), 121 W Eagle
Gruber, Ruppert & Co. (Slate & Metal), 541 Sherman
Guenther, Theo., 1285 Jefferson
Hall, L. W. & Son (Gravel, Comp, Tile, etc.), 62 Genesee
Hauck, Adam & Sons (Metal), 505 Main
Hausen, Chas., 577 Niagara
Heinle & Blessing, 1040 Genesee
Heinrich, Geo. W., 1352 Jefferson
Henrich, John Co., 322 William
Herd, Jno., 365 Genesee
Herman, Fred. W., 477 Carlton
Herrmann, Adam, 617 S Park av
Holzworth, Chas., 338 Eagle
Howard, Geo. H. & Sons, 92 Chenango
Irr, Frank X., 254 Allen
Jameson, C. B. (Comp.), 250 Pearl
Jefferson, T. M. & S. E., 157 W Mohawk
Keiser, C. G. (Metal), Copper & Sheet Iron), 400 Michigan
Kempel, Chas. J., 113 Bissell av
Kenefick, Mich'l, 361 Mass av
Kener, Edw. Jr., 400 Connecticut
Kern & Van Horn, 598 Woodlawn av
Kiendl, Robert J., 728 Michigan
Kirkpatrick, John. 364 Auburn av
Klein, Mich'l R., 408 Chicago
Koch, Philip, 17 Sweeney
Lessing, Herman, 1460 Genesee
Lipp, A. M., 327 B'way
Lipp & Minet (General Roofers), 184 Pratt
Lund, Daniel, 153 W Mohawk
McBride, John T., 1234 Seneca
McBride, John P., 1298 Seneca
McCutcheon, C. H., 18 Ohio
Mache, Geo. F., 344 Sycamore
Machwirth Bros. Co. (Slate, Metal. Tile, Asphalt & Gravel), 201 Oak
Maxwell, Jno., 417 Vermont
Menge, Fred., 51 Genesee
Menig, Michael, 123 Maple
Menig Sheet Metal Works, 118 Ash
Meyer. Joseph, 571 Genesee
Meyers, Henry F., 213 Howard
Meyers, Noah, 393 Madison
Meyers, Wm. F., 518 Seneca
Mischler, Edward. 2693 Main
Nies & Son, 430 B'way
Peters, Geo. H. Co. (Slate & Metal), 289 Rademacher Bros., 345 Fox Oak
Recktenwalt, Albert. 466 Connecticut
Reiber, Martin (Slate & Metal), 253 Shumway
Reliable Roofing Co., D. S. Morgan bldg
Reimann, Jno. H., 64 Chippewa
Roche & Moore, 2 Elk
Rothbarth, Jno. C. (Metal), 509 Elm
Roty, A. & Son, 835 Main
Schell, Chas. F., 610 B'way
Sleininger, Chas. A. & Sons, 704 Swan
Smith, D. L. (Slate, Metal, etc.), 31 Church
South Buffalo Heating & Roofing Co., 1234 Stock & Klein, 251 B'way Seneca
Tingler, F. J. & Son. 121 West Eagle
Union Roofing Co., 466 Clinton
Urban, Geo. H., 296 B'way
Walsh, Frank, 121 Seymour
Warren Roofing Co., Builders' Ex.
Wick, Martin, 586 B'way

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BYRON—Boyce, J. A.
CALEDONIA—Humphrey, O. M.
CAMBRIDGE—Maxwell, Gilbert
Watkins, Robt. H.
CAMPBELL HALL—Howell, Chas. B.
CANAJOHARIE—Scharff, Chas. W.
Wheeler, W. R. & Co.
CANANDAIGUA—Kelly, Jno. H.
Lisk Mfg. Co.
CANASTOTA—Bemiss & Co.
Zapf & Co.
CANISTEO—Keeler, J. R.
Kerns, F. J.
Laine, Orton O.
CANTON—Howe Bros.
Jamieson Bros.
Stuart, Geo. M.
CARTHAGE—Arnot Bros.
Chaufty, R. & R. C.
Strickland, J. E. & Son
CATSKILL—Conklin, Charles
Day & Holt
Jones, H. T. & Son
CATTARAUGUS—Jewell, J. H. & Sons
CEDARHURST—Haller, Paul
CENTRAL BRIDGE—Wessell, John W.
CHAPPAQUA—Barnes, O. P.
CHARLOTTE—Hamlin, Wm.
CHATHAM—Welch, J. F.
CHAUMONT—George Bros.
CHERRY VALLEY—Bierman, Richard
Fox & Brien (Slate)
CHESTER—Conklin, F. L.
Thompson, J. T.
CHESTERTOWN—Vetter, Fred'k
CHITTENANGO—Gay, H. L.
CLIFTON SPRINGS—Judd & Leland Mfg. Co.
CLINTON—Allen, H. J. (Tinware Mfrs.)
Clark, Jas.
CLYDE—Bliss, Geo. S.
COBLESKILL—Letts, L. D. & Son
Stillson, A. G. & Son (Slate & Metal)
Van Voris, I.
COHOES—Clark, Jno., 24 Willow
Golden, John B.
Loop, W. H., 44 Van Renselaer
White, David (Slate etc.), 83 Ontario
COLD SPRING—Camp, F. M.
Murray, Mrs. M. A. & Son
COLLEGE POINT—(See New York City, Borough of Queens)
COOPERSTOWN—Eddy, Harvey S.
McEwan, Hardware Co.
COPENHAGEN—McCuen, R. G.
CORFU—Palmer, C. O.
CORNING—Corning Mfg. Co. (Slate & Metal)
Williams, A. F.
CORNWALL LANDING—Taft-Howell Co.
CORNWALL ON THE HUDSON—Wood, T. J
CORTLAND—Bennett Hardware Co.
Hollister, Hdw. & Plumbing Co.
COXSACKIE—Church, W. R.
CROGHAN—Tanzer, Chas. L.
CROWN POINT—Huestis, F. E.
CUBA—Sisson & Smalley
Warren, W. C.
DANSVILLE—Bailey, J. J. & Son
DELHI—Graham, H. S.
DEPOSIT—Deposit Hardware Co.
Minor, A. P. & Son
DOBBS FERRY—Hammill, M. (Est. of)
DOLGEVILLE—Faville, W. H.
DRYDEN—Bartholomew, D. P.
DUNDEE—Beekman, Cleary & Van Lew
Bigelow, C. J. & Co.
DUNKIRK—Allenbrand, E. (Est. of)
Alling & Fields Hardware Co.
Bloss, Clark Co.
EAST HAMPTON—Grimshaw, S. C.
Northrop, O. H.
EAST RANDOLPH—Johnson, B. R.
ELLENVILLE—Rose & Childs
ELLICOTTVILLE—Doolittle, J. E.
ELMIRA—Baker, John W.
Burgess, F. S. Son & Co.
Chapman Hardware Co.
Connelly, Richard
Hughson, F. W.
Kelley, Danl. J.
Losie Bros. (Slate, Metal, etc.), 305 Market
Magee & Reynolds
Young, Charles W., 114 Lake
ESPERANCE—Miers, Milton
EVANS MILLS—Hungerford, E. O.
FAIRPORT—Brydges Hardware Store
Dunbar, Julia G.
Schummers, F. F.
FAR ROCKAWAY—(See New York City, Borough of Queens)
FAYETTEVILLE—Mott Bros.
FISHKILL ON THE HUDSON—Griffin & Howe
Yates, J. H.
FLUSHING—(See New York City, Borough of Queens)
FORT ANN—Lewis, E. A.
FORT EDWARD—Bowtell, C. W.
Newton & Hill
FORT PLAIN—Linney, Wm. T.
Stewart & Bergen Co. (Slate)
Williams & Tanner Co.
FRANKLINVILLE—Salisbury & Son
FREDONIA—Scott, F. W.
Slaght, C. S.
Zahn, John M. & Co.
FULTON—Johnston, Geo. (Steel), 90 Glen
FULTONVILLE—Brace & Richtmyer
GARDINER—Miller, W. O.
GENESEO—Stevens & Vallance (Gravel & Asphalt)
GENEVA—Dorchester & Rose (Slate & Metal)
Wilson, Wm.
GLEN COVE—Crandall, Fred. A. (Slate, etc.)
GLENDALE—(See New York City, Borough of Queens)
GLENS FALLS—Delong's, Sons, 120 Glen
Thomas, H. & Son Co.
Whipple & Sherman
GLOVERSVILLE—Bailey, W. F.
Batcheller, E. S. & Co.
Bramer, John L.
Graff, Isaac D.
Hanson, Andrew & Son
Peek & Cooper
Shinville, H. G.
GOSHEN—Goshen Hdw. Co.
Kniffen & Hopkins
GOUVERNEUR—Katzman, A.
GOWANDA—Kammerer, Jno.
GRANVILLE—Henry, Geo. W.
Nelson, D. D. & Co.
Sullivan, P. J.
GREENE—Beals, F. H.
GREEN ISLAND—(See Troy)
GREENPORT—Corwin, Aug.
Geehreng, John
Walters, F. L.
GREENWICH—Crandall, E. M.
Parker & Cleveland
GRIFFIN CORNERS—Angle, Edgar F.
Todd, A. H.
HAMBURG—Fish & Kronenberg
HAMMONDSPORT—Warren, G. F.
HANCOCK—Wheeler, Samuel S. N. & Sons Co.
HARTFORD—Palmer, J. & Son
HASTINGS-ON-HUDSON—Fallon, Martin A.
Will, Frank J.
HAVERSTRAW—Bedell Bros. (Slate)
Demarest, Alfred
Springsteen, Daniel
HEMPSTEAD—Carman, H. V. & Co.
Kelly, M. & Son, 98 Main
Seifert, George
HENDERSON—Sprague, L. A.
HERKIMER—Metzger, Wm. F.
Palmer, C. W. & Co.
Pelton Bros.
HEUVELTON—Popple, Geo. N.
HIGHLAND—Feeter, J. W. (Slate & Metal)
HIGHLAND FALLS—Yagel, Joseph
HILTON—Taber, Edson
HOBART—Carroll, A. S.
HOLLEY—Edwards, Ira
Payne & Trimble
HOLLIS—(See New York City, Borough of Queens)
HONEOYE FALLS—Pride, Jas. M. & Son
HOOSICK FALLS—Abel & Brown
Dorr, Chas. M. Co.
HORNELL—McGuire, C. F.
Roberts, Wallace
Rose, J. R. & Son
Shannon, A.
Shaut, M. J.
HUDSON—Benedict, Russel & Son
Davis, E. H., 11 N 6th
Macy, Frank A., 612 Warren
Rogerson, Jas. C. & Co.
Thomas, Robt. E.
HUNTINGTON—Evans, T. J.
Hendrickson, A. P.
Kline, Max
Re Gau, C. T.
Stoyle, Wm. H.
IRVINGTON—Ackerman, Albert
Dorsey, C. F.
Palmer, E. J.
ISLIP—Field, John B.
Williams, Wm. E.
ITHACA—Barr Bros.
Freeman, C. W.
Klenke & Drew
Rumsey, C. J. & Co.
JAMAICA—(See New York City, Borough of Queens
JAMESTOWN—Clark Hdw. Co., 109 Main
Jamestown Roofing Co. (Felt), 105 E 3d
Johnson, Bernard
Lewis, P. F. & Sons, 707 Main
Lloyd, E. D.
Marsh Bros.
Rosencrantz, Elof & Co.
Venblow, F. A.
JOHNSTOWN—Lynes, Wesley
Randall, Frank
Rice, John C.
KATONAH—Kellogg & Mead
Tuttle, J. A. (Slate)
KEESEVILLE—Callahan Bros.
Sampson, Albert S.
Washer, Quinn & Clifford
KINGSTON—Dobbs, Samuel (Slate), 20 Ann
Gallagher, Fredk., 12 N Front
Thompson, Frank S., 43 N Front
Wieber, Henry E. (Est. of), (Slate, Metal, Iron, Copper & Tile)
LE ROY—Greenham, T. D.
Taft, Fred. L. B., 10 Main
LESTERSHIRE—Becker, C. D.
LIBERTY—Monroe Hardware Co.
LINDENHURST—Ramsauer, Henry (Est. of)
LITTLE FALLS—Gibbs, Geo. D.
Lamb, David T.
Wilcox, W. H.
LOCKPORT—Burmaster, Jas. B.
Emerson, Clark, 37 Market
Lamont, Earl D.
Higgs & Staples, 58 Main
Lambert, John F.
Moran, P. & Son, 39 Pine
Stainthorpe, C. N. & Co., 126 Main
Walker, Wm. & Co., 6 Pine
Webber, Chas. W., 61 Main
LONG ISLAND CITY—(See New York City, Bor. of Queens)
LOWVILLE—Fowler Bros.
Graham, F. J.
Kieb, Frank M.
Stoddard, M. A.
LUZERNE—Kinnear, Wm. J.
LYONS—Hartman, W. T.
Marshall, Barrick Co.
MALONE—Roby, Charles N.
Tulley, Jas. H.
Thompson, H. D. & Co.
MAMORONECK—Coles, F. E.
Gedney, H. J.
Koffman, Henry
Leonard, Walter
MANNSVILLE—Huggins & Beebe
MARATHON—Myers, Chas. S.
Seamans Bros.
MARCELLUS—Mattison & Son
MARION—West, A. A.
MARLBORO—Hughes, T. H.
MATTEAWAN—Alsdorf, Leander
Rogers, D. C.
MATTITUCK—Wickham, J. W.
MECHANICSVILLE—Allen, William H.
Baker, S. C.
Safford, Henry D.
MEDINA—Acer & Whedon
Hanlon Bros.
MEXICO—Norton, W. H.
MIDDLEBURG—Sullivan, F. A.
MIDDLE GRANVILLE—Rogers, A. N.
MIDDLEPORT—Sherwood, A. G.
MIDDLETOWN—Brink & Clark Hardware Co.
Musbach, Cuno (Slate & Metal)
Stack, Thos.
Swaim, Geo. A. & Son Co., 18 North
MIDDLEVILLE—Whiting, Jas. F. & Son
MILLBROOK—Pizie, B. J.
Woolheater, Benj.
MILLERTON—Paine, J. R. & Son
MILTON—Goehrenger, Wm. A.
MOHAWK—Adams & Co.
Richardson Co.
MONROE—Knight, C. S.
Smith & Strebel
MONTGOMERY—Brown Bros.
MONTICELLO—Purdy & Demerest
Tymeson, J. F.
MORAVIA—Small, F. & Sons
MOUNT KISCO—Gorham, R. W.
MOUNT MORRIS—Osborn, E. B.
Russell & Coultey
Walker, J. C.
MOUNT VERNON—Hoffman, K., 40 N Bond
Norden, Jacob, 48 Mt. Vernon
Rich, F. T. (Metal & Slate), 11 S 3d av
Ryan Bros.
Wilkin, H. C.
NAPLES—Bolles Hardware Co.
NARROWSBURG—Anderson, Jno. S.
NASSAU—Calkins, Chas. H.
NATURAL BRIDGE—Montondo, J. N.

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NEW BERLIN—Halsted, H. J.
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Atlas Roofing Co. (Slate, Metal & Tile)
Fletcher, Henry, 135 B'way
Hastings, Jas., 162 B'way
Kernahan, Robert
King, Thos., 476 B'way
Newburgh Cornice Works (J. Farber, Prop.) (Slate, Metal & Gravel)
Pickens, A. H., 130 Water
Shannon & Co. (Slate, Tile & Metal), 107
NEW PLATZ—Elting, Jno. Liberty
Hasbrouck & Weismiller
NEW ROCHELLE—Dodge, W. W.
Gedney, Herbert
Helmrich, Aug.
McGovern, John
Minnaugh & Benz

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Aberle, H. A., 2207 Pitkin av
Ahern, Andrew W., Bay 36 nr Cropsey av
Albany Roofing Co. (Metal), 1530 Fulton
Almond, Dan'l, 8674 18th av
Almquist, Gustave, 1233 67th
Alper, A. (Metal), 50 Boerum
Anderson, Jno., 202 Sackett
Anderson, Percy L (Metal), 1069 Fulton
Apkring, Henry C. (Metal), 625 De Kalb
Aronson, A., 156 Navy av
Bachmann, R., 333 Van Brunt
Bajohr, A. & Bros., 634 6th av
Baldinger, Herman, 779 Gates av
Banham-Wagner Co., 446 Adelphi
Barkan, David, 52 Leonard
Barker, Wm. P., 69 Reed
Bass, O. F., 58 Atlantic av
Baussman, P. C., 8 Lombardy
Bay Ridge Sheet Metal Works, 672 72d
Bayer, John (Metal), 670 Warwick
Beck, Chas. & Co., 594 Lafayette av
Belz, Chas. (Metal), 270 Knickerbocker av
Bennett, Hy., 505 De Kalb av
Bennett, Wm. (Metal), 490 De Kalb av
Berlin, Max, 285 Watkins
Berman, Max, 175 Division av
Bettcke, John H., 582 Lafayette av
Biffi, Wm. T. (Comp.), 339 Flatbush av
Black, John J. (Metal), 87 India
Black, Samuel, 77 Walton
Blackeman, I. & Bro., 2996 W 3d
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Blecher Bros., 49 Nostrand av
Blitstein, Michael, 272 Van Brunt
Bochmann, Henry, 235 Irving av
Boegeman, Hy. F., 4314 3d av
Boldinger, Herman, 779 Gates av
Bonder, Benj., 397 Sackman
Boyd, James J. Jr., 235 55th
Boyle, Thos. P., 820 Fulton
Bradford, F. W., 1854 Bath av
Branagan, T. J., 448 Gates av
Branagan, Wm., 2001 Nostrand av
Brennan, Thos., 948 Madison
Brooklyn Cornice & Roofing Co., 320 Thatford av
Brooklyn Roofing Co. (Comp), 407 3d av
Brooklyn Union Cornice & Roofing Co. (Metal), 397 Rockaway av
Brown, Louis, 2772 Atlantic av
Browne, Harry H., 1316 57th
Bryant, Chas. H., 471 Chestnut
Buchanan, Wm. (Slate, Metal, Gravel, Tile & Slag),
Buell, C. S. Co. (Comp.). 198 4th av
Bull & Casine (Metal), 1030 Coney Island
Burger & Gohlke, 332 7th av
Burke, Andrew. 578 Bushwick av
Burke, E. J., 157 Adelphi
Bushinger & Falin, 27 Chester
Bushwick Cornice Works, 85 Leonard
Campbell, John J., 511 53d
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Case & Terry, 2206 Church av
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Chapman, Chas. H. Jr., 39 Hull
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Cohen, A. (Comp.), 97 Albany av
Cohen, B., 1949 Pitkin av
Cohen, Henry (Comp.), 395 Rockaway av
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Comins & Evans (Comp.), ft. of Smith
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Conley, William T., 177 7th av
Conlon, Francis, J., 276 Court
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Connor, Dennis A., 1447 Flatbush av
Conrad, L., 43 Union av
Conroy, Jos. F., 5405 5th av
Cooney, James B., 645 De Kalb av
Corporation Cornice & Skylight Works, Coyle & Lynch, 273 1st 5215 4th av
Craig & Brown (Slate & Metal), 413 20th
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Dillon Bros., 601 Gates av
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Dorr, W. D., 571 Washington av
Dunnigan, Jas. A., 478 Court
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Fausel, Geo., 420 Knickerbocker av
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Gels, Max, 878 A Gates av

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Aeolian Plastic Slate Roofing Co. (Fireproof Plastic Slate), 163 W 23d
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Asphalt Ready Roofing Co. (Comp.), 9 Church
Atla Damp Proofing & Roofing Co. (Metal), 604 Melrose av
Bader, Geo., 501 W 36th
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Bauman, Jos. & Son, 79 E 4th
Bauman, Philip, 365 Bronx Park av
Baumgarten, H., 305 W 127th
Becker, Jno. C. (Metal), 174 E 187th
Beer, Andrew (Slate & Metal), 228 W 35th
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Berger, Harris, 828 Trinity ave
Berghofer, Jno., 21 5th
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Bickhardt, Andrew (Slate), E Gun Hill rd
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Carber & Carber, 1442 Wmsbridge rd
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Fricker, Fred'k, 278 Pearl
Fuchslocher, Louis, 518 6th
Fulton Cornice & Skylight Wks, 176 Stanton
Furlong & Furlong, 221 E 135th
Galm, Charles, 653 Morris pk av
Gamsu, Chas. Co., 212 E 88th
Garelick, Henry, 324 E 33d
Gear, Jas. (Metal), 1163 3d av
Gear, John, 334 E 86th
Gehnrich, Herman, 60 Rutgers slip
Geiger, Gustav B., 832 3d av
Geller, Jacob, 191 Greenwich
Genasco Roofing Co. (Comp.), 30 Church
Germania Roofing Co. (Comp., General), 26 Sullivan
Gerth, Wm. (Metal), 1625 2d av
Gibbons, Jas. & Son, 412 West

GILMAN SNOW GUARD
103 Merrimac, Boston, Mass. (See adv, index, end of book)

Glines Roofing Co. (Comp.), 136 W B'way
Gluckmann Bros., 503 W 45th
Ginsburg, L. N. (Metal), 311 Columbus av
Giuliano, Thos. (Comp.), 250 E 137th
Giuliano & Jansen (Comp.), 280 Morris av
Gold, Sam'l (Metal), 14 Cedar
Goldberg, August, 238 E 46th
Goldberger, Frank, 300 7th av
Goldman, Nathan, 416 E 15th
Goldwasser, Max, 2240 B'way
Goodwine, Philip M., 20 8th av
Gorman & Lees (Comp.), 1170 B'way
Gordon, John, 19 W 64th
Graham, Wm. H., 325 W 54th
Gray, Grant L. (Comp., Slate), 3535 3d av
Green, S., 47 W 116th
Greenberg, David, 14 Catherine
Greenthal & Goldrich, 1185 Washington av
Greiner, Elias C., 208 W 26th
Greise, Andrew & Co., 266 W 21st
Grenthal, B., 1185 Washington av
Griffin Roofing Co. (Plastic Slate, etc.), 506 W 26th
Griggs, Henry H. (Metal), 168 W 25th
Groll & Smith, 546 W 40th
Gromborg, Chas. C., 819 10th av
Grossman & Geringer, 300 E 59th
Grotz, Wm. C., 426 7th av
Gruber, Benj., 665 2d av
Guarantee Roofing Co. (Comp.), 332 E 119th
Gundlach & Eichhorst, 236 E 95th
Gunzenhauser, Philip, 329 9th av
Haab, Henry, 425 E 14th
Hagner, Julius, 771 2d av
Hahn, August, 304 W 41st
Hallet, John E. (Slate), 736 E 220th, Williamsbridge
Hamovitz, Abraham F., 282 9th av
Hanover, Martin H., 1325 Amsterdam av
Harder, A. L., 407 Hudson
Harlem Roofing & Waterproofing Co. (Comp., etc.), 23 E 137th
Harris Roofing Co. (Comp.), 215 E 64th
Harrison, David, 211 E 116th
Harrison, M. & Son, 214 E 52d
Hartenstein, Carl, 209 E 81st
Hassig & Miller (Slate), 231 W 29th
Hay, Peter & Co., 804 5th
Heil, Henry G., 501 W 145th
Heisler Co., 2419 Bathgate av
Heldridge, Wm., 977 Rogers pl
Heller, Benj., 239 E 121st
Heller, Frank, 371 7th av
Heller, Paul, 72 6th av
Hellerbach, Sam'l, 80 3rd av
Hell Gate Sheet Metal Works, 236 E 95th
Helmrich, John, 1294 Intervale av
Herche, Albert W., 907 E 232d
Herrmann, Geo., 591 9th av
Herzenberg, Abraham, 464 8th av
Hession Roofing Co. (Comp.), 2308 2d av
Hessler & Lang, 592 Lenox av
Herz, David Sons, 1439 3d av
Herzenberg, A., 464 8th av
Hewitt, Thos. J., 51 Dey
Hillery Roofing Co., 168 8th av
Hilts, William H. Co., 82 W 3d
Hinton, Henry, 691 8th av
Hinz, Albert, 403 E 16th
Hoar, Albert, 121 E 75th
Holmes, Thos., 216 E 95th
Homburg, Geo. (Metal), 345 E 9th
Hooker & Co. (Slate), 307 E 31st
Horner, Jos., 505 5th
Huck, Emile, 486 9th av
Hulbig, August, 121 W 30th
Independent Roofing & Cornice Co., 161 Broome
Iser, Morris (Metal), 455 Pearl
Israel, David, 300 W 48th
Izmirian, Chas., 516 E 183d
Izmirian. D. & J., 4234 Park av
Jacob, Lewis, 608 E 9th
Jacobson, Jacob (Comp.), 495 Wendover av
Jacquin, Jas. A., 58 West
Jampol Guarantee Roofing Works (Metal). 158 W Houston
Jampol, Samuel, 1738 Victor
Jampol & Martz. 650 German pl
Janes, A. Co. (Metal), 138 E 59th
Janofsky & Klein, 773 Westchester av
Jones. Thos. W. (Metal), 22 Burling pl
Jordan, C. R., 361 Bleecker
Kahn. Jonas, 1258 3d av
Kalbert. A. & Son, 170 E 3d
Kallman, Myer (Metal), 1104 Lexington av
Kang, Morton F., 126 Lexington av
Katke. R., 82 1st av
Katzer. Wm., 253 W 35th
Katzman & Cheiman. 209 E 96th
Kaufman & Meltzer, 165 Lenox av
Keavey. Michael (Slate), 337 Hudson
Keil, Francis X., 1010 Kelly
Keller, R. H., 210 E 122d
Kempe. Arthur, 251 E 84th
Kestenbaum, Wm., 1786 1st av
Kientsch, Jno. (Metal), 1833 Wash'n av
Kinsler. Herman, 491 Canal
Kirk, Chas. H., 1109 Washington av
Kloer, Hugo, 1270 3d av
Koenig. Hy., 4279 Webster av
Kohlmann. Hy., 1380 Theriot av. Van Nest
Korn. Geo. (Metal), 373 W 35th
Kosminsky. Isidor, 1107 3d av
Kramer, Morris, 569 3d av
Kraus, Otto J., 3525 3d av
Kraushar, Henry, 209 Greenwich
Kukelhorn, Jos. & Co., 8 Peck slip
Kuntzman, Andrew, 219 W 88th
Kunze, Charles, 251 E 43d
Kutner, Sam'l (Metal), 34 Attorney
Ladzin, Harry, 2754 B'way
Lamb, Chas., 956 Lexington av
Langberg, Chas., 874 8th
Larson, Alfred, 46 W 30th
Laufer, Samuel, 2617 3d av
Laura, John & Co. (Slate & Comp.), 160
Laura Roofing Co., 419 E 15th 5th av
Lazarus, Hirschenfeld & Co., 180 Ave C
Lebit & Gallant, 107 E 115th
Lembke, Wm., 691 E 133d
Lenox Tile, Slate & Metal Roofing Co., 592 Lenox av
Leonard Sheet Metal Works (Slate, Tile & Metal), 1123 B'way
Lesage, Dan'l, 202 W 22d
Le Sauvage, John, 63 Duane
Levin & Rosen, 327 5th
Levine, Herman, 811 Columbus av
Levine, Louis, 182 Madison
Levitt, Samuel, 656 10th av
Levy, Leon, 368 E Houston
Levy, Zalig, 822 2d av
Lexington Sheet Metal Works, 2032 Lexington av
Liess, N., 2381 Bathgate av
Lindberg & Lipner, 76 Clinton
Lippin, Henry, 318 8th av
Lockman, Robt. T., 140 Watts
Loeble, Aug. H., 6 Sullivan
Loh, Geo., 810 155th
Lufburrow, John E., 500 W 147th
Luneschloss, Edgar, 46 Greenwich av
Lupton's, David Sons Co. (Slate, Tile & Metal), 30 Church
Lutz, Frank (Metal). 118 1st
McCarthy, Joseph, 465 Pearl
Macdonald Roofing Co. (Slate), 116 Manhattan

**McFARLAND, J. C. & CO. (Slate,** Metal & Tile), 410 E 32d. (See adv. index, end of book)

McGlade, Harry, 367 E 143d
McHugh, M. & Son (Comp. & Slate), 509 W 42d
McKeever, Timothy W., 349 E 133d
McLaughlin, E. & Co., 11 E 10th
McLaughlin, John A., 40 Crosby
Maizel, Sam'l, 975 2d av
Malloy, Matthew, 178 E 85th
Mandel, John, 215 E 34th
Mangone, P. & Bro., 327 E 115th
Manhattan Tin Roofing Co., 118 E 109th
Mannheimer. Victor, 511 E 183d
Mantel, Charles & Son, 263 W Houston
Manz, Louis, 453 W 54th
Marine Wks., 31 Coenties sl
Marshall & Co. (Slate), 281 E B'way
Martin, Alex. Sons (Comp.), 465 3d av
Martin, Wm. F., 446 4th av
Materszewski, John F., 389 Bleecker
May, Wm. M. Co., 798 11th av
Mayer, Conrad, 40 Bond
Meister, J. & M. Dickholtz, 52 Columbia
Melchior, Fred'k. 1041 Park av
Melee, Walker E., 187 Columbus av
Mery. Frank. 234 9th av
Messenger, Henry N., 337 6th
Metropolitan Damp Proofing & Roofing Co. (Comp.), 1531 Brook av
Meyer, Alphonse. 132 W 20th
Meyer. Benj., 276 W 115th
Miles, Wm. G., 113 W 60th
Miller's. John Sons. 461 W 52nd
Molle. Edward, 86 8th av
Moore, Thomas, 189 E 64th
Morgan, John, 179 E 77th
Morio. George, 96 Ave A
Moritz. Isaac. 1192 2d av
Morrison, Richard H., 1231 3d av
Morrow, John Co. (Slate & Metal), 225 W 50th
Mufson, Morris (Metal). 115 Norfolk
Muller. George H., 879 Home
Muller, R. & O., 358 E 151st
Muller, Samuel (Slate), 566 11th av
Munch & Webber 1208 2nd av
Murphy, George M. (Slate & Metal), 43 New Chambers
Murray Hill Sheet Metal Works, 583 1st av
Muskat, Henry, Walton av c 182d
Myles. Geo. C. (Metal), 204 Anthony av
Neil, John W. (Slate & Metal), 436 W 17th
Nelson, Chas., 1753 Mt Hope av
Nelson, Jno. A., 284 9th av
Neumann, Louis (Est. of), 387 3d av

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New, T. Construction Co. (Comp., Brick, Gravel, Metal & Tile), 520 W 29th
Newman, E. W. (Metal), 585 3rd av
N. Y. Cornice & Skylight Works, 408 E 151st
New York Roofing Co. (Comp.), 17 Battery pl
New York Tin & Tar Roofing Co., 206 E 100th
Nicholson & Galloway (Slate), 644 Hudson
Niczky, Frank, Jr., 618 11th av
North Side Cornice & Roofing Co., 1530 Castle Hill av
Northern Sheet Metal Works, 515 Court-
O'Brien, John H., 61 Ann landt av
O'Callaghan, Thos., 238 Columbus av
O'Connor, Wm., 2539 Webster av
O'Crowley, Michael F., 26 Ann
Odell, Chas. W. (Comp), 11 E 125th
O'Leary, Thos. & Son, 235 Center
Olinsky Bros., 164 Madison
Oppel, Rudolph, 230 E 22nd
Palmer, Jno. E., 1428 Blondell av
Palmer Sheet Metal Works, 533 E 118th
Paragon Cornice & Skylight Wks, 26 Av C
Parker Sheet Metal Works, 856 11th av
Parolo, M. (Metal), 98 Suffolk
Parshall, Benj. C., 103 Christopher
Pasewark, Chas. H. & Co., 347 E 105th
Passlack, Frank, 4392 Park av
Pels, Alfred, 1232 3rd av
Perske, Francis, 439 E 92d
Peters, Wm. C., 1859 Carter av
Pfeifer Bros., 473 Greenwich
Phoenix Tin & Tar Roofing Co., 474 B'way
Player, Christian (Metal), 20 Bradhurst av
Plumhoff, Dederick J. (Metal), 215 E 29th
Plunkett, D'Arcy B., 531 11th av
Poellot & Schwartz (Metal), 460 W 149th
Preiser, N., 409 E 84th
Press, Max (Metal), 321 E 8th
Preusser, John (Metal), 302 W 122d
Raab, Henry, 203 E 15th
Raftelis, Peter, 258 W 37th
Rahm, M. & Son, 2319 7th av
Rauh, Adolph, 646 9th av
Ravensburg, John, 186 9th av
Rea, Andrew L., 812 Westchester av
Reich, Emil, 111 3rd
Reinshagen, Henry, 79 Allen
Reitel, Adolph (Metal), 647 E 9th
Reliable Roofing Co., 179 E 117th
Reul, Matthew, 752 9th av
Rice, Barth J. (Slate, Tile & Metal), 578 W 130th
Rice, Morris, 2519 Webster av
Richards, Jas. J. (Metal), 302 W 120th
Richter, Nathan, 1619 Amsterdam av
Riesner, Benj. J., 28 E 85th
Rochelle Roofing Co. (Comp.), 103 Park av
Rockwell, Hy. G. (Metal), 281 Morris av
Roerr, Peter (Metal), 400 Columbus av
Roessler, Fred'k (Metal), 8 Greenwich
Rogers, Geo. (Metal), 300 W 139th
Roof Maintenance Co. (Comp. & Metal), 114 E 130th
Roofing Guarantee Co. (Comp.), 79 E 4th
Root, Edwin B., 326 W 44th
Rosenbluth, Philip, 792 11th av
Rosner, Henry, 971 Amsterdam av
Rosner, Louis, 971 Amsterdam av
Rosse, Isaac, 61 Norfolk
Roth, Max, 26 Ave C
Royal Roofing Co., 345 E 115th
Rubin, Samuel, 349 Madison
Rudman, Charles, 59 Fulton
Ryan, Chas. H., 3483 Olinville av
Sacks, Herman, 1482 2nd av
Samet & Schoen, Inc. (Metal), 4187 Park av
Samit, Aaron (Metal), 347 Bowery
Samlovitz, Max, 302 E 96th
Sander, F. W. & Co. (Metal), 28 W 116th
Sander, Wm. A., 301 E 26th
Saron, D., 2164 Madison av
Scanlon, Thos., 201 E 67th
Scherrer, Conrad & Sons (Metal), 448 7th
Schick, Philip, 149 Ave A av
Schmitt, August, 214 E 181st
Schmitt, Gustav, 517 W 43d
Schneider, H., 122 W 101st
Schneider Sheet Metal Works, 161 E 84th
Scholtz, F. W., 685 E 220th
Schubert, Robt., 1315 2nd av
Schumacher, Jacob, 1980 Park av
Schwartz, Isaac, 165 2nd
Schwartz, Jacob, 124 Catherine
Schweid, Samuel, 161 Wooster
Schwoerer, Anthony & Sons (Slate, Tile & Metal), 530 E 80th
Severin & Brandin, 235 7th av
Shaw, M. J. (Comp.), 109 Christopher
Shepard, Louis J., 869 Melrose av
Sherman, M., 85 Orchard
Sherwood, Wm. (Inc.), 1021 3rd av
Shmidt, Adolph H., 349 9th av
Silverman, David, 84 E 107th
Simpson, Jas. & Son (Metal), 844 Gerard av
Sladon Iron Works Co., 1481 Park av
Smith, Louis, 138 Division
Smith, Morris, 1045 3rd
Smith & Dorsett Co. (Slate, Tile & Metal), 405 E 47th
Soellner, Chas., 1597 Ave A
Southern Roofing & Repair Co. (Comp.), 147 E 28d
Sperzel, Chas. H., 1222 Bryant av
Stam Bros., 1438 Lexington av
Standard Damp-Proofing & Roofing Co. (Comp.), 1842 Wash'n av
Star Cornice, Skylight & Roofing Works, 569 3d av
Star Roofing Co. (Comp.), 2 Stone
Star Roofing & Const. Co. (Comp.), 506 Stiefel, Gus., 161 E 75th W 26th
Stillman & Fried, 46 1st
Storch, L. A. & Co., 517 E 73d
Subway Roofing Co. (Metal), 874 9th av
Superior Cornice & Skylight Works, 520 W 40th
Swan, A. F. Co. (Metal), 17 Battery pl
Sykes Steel Roofing Co., 1 Madison
Ten Broeck, Morrison & Co., 534 W 49th
Thaw & Canter, 317 E 9th
Thompson, Duncan, 78 Ave D
Trillich, Henry (Slate), 756 6th
Trube, Fred. A., 1662 3d av
Tyler, Frank J. (Metal), 200 W 18th
Unger, F. J., 83 1st av
United Damp-Proofing & Roofing Co. (Comp.), 423 E 164th
Urdang, Benj. Y., 492 Manhattan av
Valentine, Chas., 117 W 10th
Viereck, Albert O., 421 3rd av
Vogt, Geo. J., 312 E 60th
Voight, Geo., 627 Meade
Voightman & Co., 25 9th av
Wagner, Jacob, 247 3rd
Waidelich, Geo., 250 10th av
Wald, Hyman, 238 E 24th
Wald & Reipp, 286 8th av
Walker, Wm. T. (Slate), 3357 3d av
Walsh, Michael, 548 Grand
Walther, Chas., 532 E 142d
Walther, Max, 532 E 142d
Warren-Ehret Co. (Comp.) 17 Battery pl
Washa, Wm., 255 E 49th
Waxman, Fred'k, 1561 3rd av
Weinberg, Herman, 211 E 117th
Weine, J., 371 E 148th
Weinstein, Hyman, 163 Madison
Weintz, Henry & Son, 84 Greenwich
Weissman, Henry, 778 8th av
Westegren, M. F. (Slate), 221 E 144th
Wildman, Jos., 150 Columbus av
Williams, Richard, 2300 Westchester av
Winter, Jacob Co., 712 Lexington av
Winter, Louis, 291 W 142d
Winters, Charles, 348 W 12th
Wolf, Adolph, 223 E 107th
Wolf, David & Bros., 152 E 116th
Wolff, Chas., 117 Cedar
Wolfson, Joseph, 1506 Amsterdam av
Yorkville Roofing Co., 200 E 99th
Zawar, William, 339 E 9th
Ziegler, Jacob, 113 W 30th
Zimmerman, V., 3610 3rd av
Zorn, Aug., 1008 1st av

## Borough of Queens.

ARVERNE—Shefts, Wm.,
BAY SIDE—Robertson, F. B.
COLLEGE POINT—Hess, Geo.
CORONA—Glickman, M. & Sons
Hartman, Charles & Son
EVERGREEN—Brandt, Eugene
Fuchs, August
Haas, Louis
Landgraf, Jno. L.
Lechner, Fred'k & Co.
Malloch, Robt.
Schauer, Gus.
Schneider, Jno.
FAR ROCKAWAY—Scott, Philip P.
FLUSHING—Anderson, John & Son
Fields, Jacob G.
Kiebitz, Frank G.
Perpall, E. A. & Son
GLEDALE—Grenner, Geo.
Kraus, Henry
JAMAICA—Bangert, Frank X.
Distler, Ernst
Lewis, James T.
Michels, Otto
Wooley, Charles H. & Bro.
LAUREL HILL—Figel, Emile
LONG ISLAND CITY—Anderson & MacKenzie, B'way & Ely av
Baron Sheet Metal Works
Forrest, Wm. (Tin & Gravel)
Fredrickson, Herman, 433 Steinway
Hussey, Geo., 50 Academy
Livingston, Chas.
Lishky, Louis R., 257 Steinway av
Martin, Michael J., College Point
Munder, Aug. & Son, 305 Freeman av
Queens Constr. Co., 46 Vernon av
Recknagel, Arthur, 414 Steinway av
Ridder, Fred'k W., 123 Newtown av
Schaefer, Henry, 369 Flushing av
Sheridan, Philip C., College Point
Turner Bros., 120 Jackson av
Woods, Jno., 143 7th av
MASPETH—Inglis Bros.
Quirin, Frank
Woelfel, Louis
METROPOLITAN—Brandt, E.
Grimm, Louis
Seitz, Louis
MIDDLE VILLAGE—Grundelmann, Geo.
Schaefer, Henry
Wachter, Emil J.
OZONE PARK—Lissner, A.
RICHMOND HILL—Banks, Rich. M.
Barkenthien, Gustave A.
Barkenthien, Richard
Gilbert, Thos. E.
Heinstadt, John
Johnston, Jno.
Menz, Felix
Stewart, David S.
WHITESTONE—Blum, Samuel
WINFIELD JUNCTION—Lahoda, Paul
WOODHAVEN—Baumann, Fred'k A.
Faivre, Geo. Y.
Eckhardt, Herman A.
Penny, Wm. A.
Tschimber, Julius
WOODSIDE—Morin, A.

## Borough of Richmond.

CLIFTON—Fleming, Jno.
CONCORD—Mullich, John
GREAT KILLS—Brower, H. S.
MARINER HARBOR—Lorenzen, Peter E.
NEW BRIGHTON—Barnes, Wm.
Everitt, Geo. Wm.
Hediger, Rudolph
Cheviron, Victor
NEW DORP—Schultz, Garret, Jr.
PORT RICHMOND—Rauscher, Frederick
ROSE BANK—Reichenbach, Paul
Sinnott, Thos. F.
Zorn, Adolph
ROSSVILLE—Burgher, Jno. S.
STAPLETON—Greeb, M.
Lindemeyer, Wm. J.
Schild, H., Jr.
TOMPKINSVILLE—Schwanenberg, Herman
Tiernan & Silva
TOTTENVILLE—Berlett, Edw. W.
Guyon, H. A.
Hawkins, Thos. W.
WEST NEW BRIGHTON—Clark & Morton
Davies, Geo.

**(End of New York City)**

NEW YORK MILLS—Hastings, M. E. & Son
NIAGARA FALLS—Burleson Hardware Co.
Campbell, George H.
Oliver, F. W. Co. (Slate & Comp.)
Snyder-Gillett Contracting Co.
Watson, J. & Son
NORTH TONAWANDA—Knapp-Cramer Hardware Co.
Schurr, Albert
Tuck, R. L. Co.
NORTHVILLE—Allen & Palmer
NORWICH—Burchard Bros.
Latham, C. H.
NYACK—Ernst & Bro.
Gates, George
Wyman, George R. & Son
OGDENSBURG—Barr, Jno.
Bowman, Jas. S.
Britton, W. D.
Hackett, P. Hdw. Co.
Rapin, Frank & Co. (Est. of)
Skeith, Thos.
Skelly, Thos. F.
OLEAN—Pierce, O. W.
Webber, Wm.
ONEIDA—Dennison Bros.
Lype, Norman
Millspaugh, W. H.
Rose, F. B. & Son
Tooker, O. P.
Wales, D. H. Co.

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ONEONTA—Rowell, Geo. W. (Slate & Metal)
Stevens & Baker
Townsend Hardware Co.
ORISKANY—Harrington, P. J.
OSSINING—Barlow & Co.
Khuns, Edward
Ramage, Thomas
Williams, Cornelius P.
Young, A. L.
OSWEGO—Blair, L. F.
Keefe Bros.
Lieb & Son
Weeks, H. F.
OSWEGO FALLS—(See Fulton)
OWEGO—Adams, H. B. & Sons
Houk, J. S.
Stanbrough, J. B.
OXFORD—Burchard Bros.
OYSTER BAY—Baldwin, Thos. E. (Slate, etc)
Hutchinson, E. K. (Slate)
PARISH—Church, F. A.
PATCHOGUE—Gordon Bros.
Overton, L. M.
PAUL SMITHS—Smith, Paul & Sons
PAWLING—Gibney, Geo. W.
Merwin, F. S.
PEEKSKILL—Durrin Bros.
Finnigan, James J.
Foster & Son
Jordan, Warren
Simmons, Raymond
Smith, Jno., Jr. (Slate, Gravel & Tar)
Wessells, Wilber F.
Wightman, Andrew (Slate & Metal)
PERRY—Olin & Grieve
PERRYSBURG—Warren, Henry
PHELPS—Hibbard, E. A. & Son
PHILMONT—Carney, M. (Est. of)
PITTSFORD—Hegendorfer, Fred
PLATTSBURG—Costello, Thos., 96 Margaret
Webb, Geo. N., 15 Bridge
PLEASANT VALLEY—Lasher, F. P. (Slate & Metal)
PORT CHESTER—Dold, Frederick, Jr. (Tin
Siltz, Geo. W. (Gravel & Tin) & Metal)
PORT HENRY—Breadner, J. T.
Hogan, Michael
PORT JEFFERSON—Lawrence, John H.
Leonard, F. J.
Smith, G. H. (Slate & Metal)
PORT JERVIS—Gordon & Malven Co.
McDonald, S. G.
Peck, Chas. I.
Swinton & Co.
POUGHKEEPSIE—Adriance, Peter & Son (Slate & Metal), 393 Main
Aldrich, Elbert (Slate, Tile, Metal & Asphalt), 391 Mill
Briggs, G. H. & Son, 393 Main
Cowee, Warren G. (Slate), 30 Mansion
Miller, Frank, 131 Union
Miller, J. H.
Ritter, Wm. H., 141 Main
RAVENA—Strevell & De Friest
RED HOOK—Curtis, J. A.
RENSSELAER—Clark, Jas.
Fowler, S. A., 871 B'way
RHINEBECK—Rosenkrantz, L.
Smillie, Harry & Co.
RICHMONDVILLE—Bernstein, Edw.
RIVERHEAD—Bunce, Chas. E.
ROCHESTER—Amos, F. A., 36 N Water
Barry, Walter, E., 219 Lyell av
Becker, Chas., 86 Joseph av
Berna, Sd., 188 West av
Bertram, Geo., 425 Joseph av
Bertru, F. J., 346 Jay
Braunstein, Max, 174 Jefferson av
Brown, N. J., 476 N Goodman
Calder, Robt., 79 Exchange
Carter, Wm., 101 Bartlett
Cohen, Joseph, 20 Nassau
Cole, J. Stewart, 115 Main st W
Close, C. L. & Co., 266 Adams
Cooper, F. R., 321 Orchard
Crombie, Jas., 565 N Goodman
Demmer, F. J., 729 Monroe av
Dorschel, Geo., 142 Chatham
Dupre, Wm. J., 679 South av
Evans, Herbert H., 243 Lyell av
Fricker, Jno. Co. (Cooper & Tin), 10 Ely
Geddes, Joseph, 15 Market
Handel, G. M., 905 N Goodman
Heeks, John, 215 Clifford
Hisom, Cornelius J., 174 Monroe av
Horn, Frank J., 149 Maple
Howe, S. B., 36 Atlantic av
Johns, Franklin, Jr., 73 Walnut
Keeler, Chas. H., 206 Ave B
Keller, Wm., 745 Clinton av, N
Kewin, W. J., 155 East av
Knowles & Peck (Gravel, Tin & Slate), 50
Koerner, Aug. W., 10 Market Franklin
Kurlanski, Max 202 Joseph av
Lennon, Michael J., 289 St. Paul
Ludke, Paul W., 85 Colby
McAnally, Nicholas, 70 Cortland
McConnell, J. S. (Slate, Metal, etc.), Factory & Mill sts
McCormick, Wm. A., 520 State
McMann, J. F., 462 West av
Marriott, Wm., 68 Manhattan
Martin Bros., 291 Court
Matthews, Sidney, 461 State
Mayer, Lawrence V., 341 North
Natapov, Philip, 200 Chatham
Nesbitt & Butler, 1431 South av
Patcher, W. E., 476 Monroe av
Patterson, Robt., 191 Front
Pritchard, M. L., 179 main, W
Ratt & Smith, 40 Stone
Richards, Chester F., 206 Plymouth
Richer, J. Henry, 9 Favor
Riley, Wm., 146 Clinton av, N
Roberts, E. B. Co., 40 Arcade
Rochester Non-Rust Tinware Co., 1220 University av
Rochester Roofing & Heating Co. (Tin, Felt, Gravel & Slate), 35 Ambrose
Rock Asphalt Pavement Co. (Asphalt), 279 South av
Rodenbeck, C. F., 388 South av
Roessel, Geo. H.
Rohr, William, 276 Central pk
Sandel, Isaac, 62 Kelly
Sawnes, Geo.
Schoeneman, Wm. D., 36 N Water
Schmanke, Wm. F., 362 Hudson av
Schultz, L. M., 672 Clinton av N
Sedgwick, Wm. S., 62 Magne
Selbig, Martin L., 44 Grape
Shatzel, Jas. E., 29 Jones
Siddons, Jno. Co. (Slate, Metal, Tile & Gravel), 61 to 65 N Water
Smythe, Ira C. & Son, 339 Emmerson
Stierly, E. & R., 440 Main, E
Strauss, Leopold, 533 Joseph av
Turner, T., 381 State
Warren Chemical & Mfg. Co., 49 West av
Wieser, Nathan, 119 Chatham
Williams, F. H. & Son, 295 Monroe av
Young & Harrington, 40 Cortlandt
ROCKVILLE CENTER—Cock, W. R.
McCarten & Grady
Pettit, Frank
ROME—Clifford, C. E.
Conley, Jas.
McLean Jas. H.
Relyea & Rockwood
Russell & Waller
Sherman, H. B.
Townsend's, J. Sons
Tyler, C. Edwin
RONDOUT—(See Kingston.)
ROSLYN—Burrowes, Robert (Slate & Metal)
Titus, Willett (Slate & Metal)
ROUSES POINT—Chilton, Geo.
SAG HARBOR—Montcalm, C. H.
Youngs, D. E.
SALAMANCA—Andrews, J. A. & Son
McCann, Hubbell & Co.
SALEM—Baker, G. W. & Son
Edgerton, Horace
SALISBURY MILLS—Dusenbury, Z. D. W.
SANDY CREEK—Colony, C. W.
Jones, L. J.
SANDY HILL—Parks, S. H.
Sherrill Hardware & Plumbing Co.
SARANAC LAKE—Adirondack Hdw. Co.
SARATOGA SPRINGS—Towne Hardware Co., 430 B'way
SAUGERTIES—Hildebrandt, F. A.
Lamb, Daniel & Son
Smith, Philip C.
SAYVILLE—Jedicks Bros.
SCHAGHTICOKE—Waldron, Wm.
SCHENECTADY—Allen, Jno.
Burgess, Isaac E.
Burtis, Albert B. & Son, 152 Jay
Case, L. & Co., 414 Warren
Clute, W. S., 16 Central arcade
Craig & Vrooman
McDonald, Benj. J.
MacGregor, Thos. F. (Slate & Metal), 135 Jay
Marsh & Marsh
Peters & Borden, 224 State
Vrooman's, J. V. Sons, 138 State
SCUYLERVILLE—McRae, G. S. & Co.
Washburn & Leeds
SEA CLIFF—Koop, Jno. & Sons
SENECA FALLS—Story & Strong
Wollaver & Dutcher
SHARON SPRINGS—Klinkhart, Geo.
SHELTER ISLAND HEIGHTS—Harris, C. S. (Slate, Comp., etc.)
SIDNEY—Davis, Jas. E.
SILVER CREEK—Oldenburg, Henry
Shofner, Geo. H.
SINCLAIRVILLE—Reed, R. & Co.
SKANEATELES—Bench Hardware Co.
Shallish, Jerry
Shotwell, Tucker & McGinn Co.
SOUTHAMPTON—Cameron, A.
Hammond, E. E.
SOUTHOLD—Macomber, B. F.
SPENCERPORT—Spencer, F. W.
SPRINGVALLEY—Ruppel Bros.
STAMFORD—Kelly, E. L.
Lawrence, H. C.
Maynard & Elliott
STAPLETON—(See New York City, Borough of Richmond)
STILLWATER—Haight, Silas
Hunter, E. B.
STONY POINT—Suringsteen, D. & W.
SUFFERN—Beers, Geo. A.
SYRACUSE—Ball, Thos
Bartlett, Chas.
Bauer, Wolfgang
Beachem, Albert W.
Blant, Arthur C., 117 Oak
Blant, J. A., 227 James
Bock, August
Bradford & Deruchie, 439 E Water
Burrill, F. W. S.
Bushnell, Edward J.
Caron, Thos. L.
Carroll, Patrick, 405 S State
Cashman & McCarthy (Slate, Metal & Tile), 372 W Fayette
Central City Roofing Co. (Comp. & Slate), 430 Canal
Curran, Jas. (Slate & Metal), 213 N Franklin
Gooley, W. F., 1911 W Fayette
Deland, Jerome S.
Deruchie, Herbert S. (Slate & Tile)
Drake, Wm. B.
Engleman, John
Evans, Bernard
Falk, Philip
Feigel, H.
Fitzgibbons, Jas. Roofing Co.
Goebel, Otto
Griffing, T. William
Hart, Abram E.
Haum, J. George
Hazeltine, A.
Heaphy, Dennis, J., 133 W Water
Heftie, Jno., 1112 S Geddes
Hilsdorf & Williams
Hoffman, John
Kelley, Edmund, 1701 W Lafayette
Kennedy Roofing & Paving Co.
Lapham, Jno., 235 South av
Lynch, Thos J.
Lyons, R. C., 706 Grape
McCarthy, Jno. J., 511 S West
Maxon, Dean A.
Miller, Ernst
Moore, Wm.
Mudford, Chas.
Murphy, Michael
Paulus, Philip, 319 N Salina
Philo, Geo. W.
Plaisted, D. P. & Co.
Reisman, Jacob
Rolle, August, 720 Butternut
Savage, W. C.
Sax & Bowering
Schemel, Geo. B., 425 W Fayette
Schreyer, Jno., 1110 Butternut
Simmons, Theodore, 323 Cedar
Smith, Willis B.
Soper, Wm. & Son
Talbott, Thos. & Son (Slate, Tile, Asphalt & Gravel), 240 W Water
Thomas, Frank W.
Tuttle, Jefferson
Vail, Harvey T.
Vuillemot Bros.
Wall, Wm. U. J.
Wallace, E. F., 1010 S State
Welch, Jno., 616 Burnet av
Weiler, Michael C.
Zimmerman, Julius, 16 New Butternut
TARRYTOWN—Curtis, C. M. & Co.
Kuntz, H. L.
TICONDEROGA—Bascom, D. C.
Brust, F. L.
Lamson, W. H. & Son
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TONAWANDA—Ernst, A. H.
Koenig, H. B.
National Roofing Co. (All Kinds)
TOTTENVILLE—(See New York City, Borough of Richmond)

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TROY—Cole, Geo. H. & Son, 403 River
Connors, James T., 506 2d
Doherty, Michael, 25 Ingalls av
Hamil, James
Harper, Thos. K., 565 Congress
Hawkins, Jno. E. & Son, 14 12th, Lans.
Joyce, Humphrey, 342 Congress
Kennedy, James F., 508 River
Knaupp, Jno. F. (Slate & Metal), 672 Pawling
Lehmann, Adolph, 225 River
Lodge, Chas. J.
Loeble, Chas. A., 412 5th av, Lans.
Loelle, Herman G.
Loop, William H. (Tin)
Lyman, James, 352 2d
Lynch, Thomas
McPherson, James
Manogue, Edward Co. (Slate, Gravel, Metal & Asbestos), ft of Grand
O'Connor. John, 328 2d
Powers, J. J., 310 2d
Sasse, Robert W., 842 River
Sherman, Geo. S., cor 3d & Division
Sherman, Wm. A., 309 River
Stiles, Franklin O.
Sweet-Packard Co., 96 Congress
Troy Roofing & Cornice Works
Westbrook, Robt.
Wheeler, Geo., 414½ River
Whitaker, James A., 11 19th, Lans.
Yetto, Edward A., 3103 6th av
Young & Co., 618 2d av, Lans.
TUCKAHOE—Brundage, J. G.
Rubly, Wm.
TUXEDO PARK—Secor, Chas. H.
UTICA—Anglehow, Henry, 28 Belmont av
Coffey, John J., 95 Taylor av
Geirsbach, Mrs. Caroline
Goodenow, A. L., 54 John
Henry & Williams, 130 Court
Jacobs, S. F., 117 Court
Jones, Heating & Tinning Co.
McLean, C. S. & Co., 131 South
Metal Roofing & Cornice Co. (Slate, Metal
Parker & Stewart & Gravel), 71 Main
Shaughnessy Bros., 143 Genesee
Stuber, Jacob, 60 Albany
Weis, Joseph D.
Weiss, Adam (Asphalt, etc.), 366 Seymour av
Werthman. F. T., Eagle & Elm
Wurster. John, 383 Whitesboro
VALLEY FALLS—Parker, J. W.
WALDEN—Wade, A. K.
WARRENSBURG—Hunt, John G.
Mixter, F. R.
WARWICK—Montross, A. W.
Ogden & Pelton
WASHINGTONVILLE—Hull, C. W.
Turner, C. N.
WASSAIC—Williams, Wm.
WATERFORD—Brott, Andrew J.
Carter, Chas. H.
WATERLOO—Nailos, James
Nugent & Co.
Van Riper, Theodore
WATERTOWN—Bradley, T. H. (Tar & Felt)
Page, F. A.
Peck, Phineas
Spratt, Corcoran & Foley Co.
WATERVILLE—Barr, R. M. & Son
Bourke, M. R.
McLean, W. G. & Co.
WATERVLIET—Gray, Vivian
Sexton, Samuel, 202 23d
WATKINS—Durland, L. H. Son & Co. (Slate &
WAVERLY—Mixer, E. D. Metal)
WEEDSPORT—Burritt, O. W. & Bro.
Harmon, A. B.
WELLSVILLE—Hoyt Hdw. Co.
WESTFIELD—Carpenter, E. F.
Lauders, John E.
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WESTPORT—Eastman, H. E.
WHITEHALL—Willard & Marshall
WHITE PLAINS—Fowler & Sellars
Quimby, G. W.
Schwaner. F. J.
WHITESTONE—(See New York City, Borough of Queens)
WILLSBORO—Hudson, Wm.
WILSON—Perrigo, G. W.
WOODHAVEN—(See New York City, Borough of Queens)
WOODMERE—Baldwin, Gilbert
WORCESTER—Eitapence, Charles & Co.
YONKERS—Acker, D. & Co., 50 N B'way
Bailey, George A., 52 N B'way
Donnelly, James, 175 Yonkers av
Fitzgerald, D., 203 New Main
Humphrey & Bell, 40 Nepperhan
McVicar, Thos. (Slate & Metal), 30 Dock
McVicar, Wm. H. (Slate & Metal), 83 Woodworth av
Pawson, J. E., ft Wells av
Reade, Cabot S., 47 Ashburton av
Westchester Metal Works, 46 Riverdale av
Wheelock, M. R. & Son, 28 Riverdale av

## NORTH CAROLINA.

ASHEVILLE—Johnson & Trexler
McLean, A. L.
BURLINGTON—Thomas, S. & Sons
CHARLOTTE—Garabaldi, T.
McCausland, J. N. & Co. (Slate & Metal)
Ray, G. G. & Co.
Shuman, C. F.
CONCORD—Hill, W. J.
DURHAM—Barbee, Charles E.
Lougee, W. J.
Ruffin, P. R.
Taylor & Phipps
ELIZABETH CITY—Hill, H. O.
FAYETTEVILLE—McMillan Bros.
GASTONIA—Long Bros.
GOLDSBORO—Croom, C. E.
Hobbs, H. H.
Slaughter, J. Co.
GREENSBORO—Bond, A. Y.
Ford Roofing Co.
Pleasant, W. R.
Yates, J. F.
GREENVILLE—Bateman, T. H.
Hardison, James
Jenkins, J. J.
HENDERSON—Carter, W. T.
HIGH POINT—Craven, J. B.
Gordy, McDaniel
KINSTON—Isler, L. E. & Bro.
Jones, J. H.
Moore, E. O.
Scott & Waller
Strickland, Clayton & Co.
MOUNT AIRY—Everitt, T. M.
NEWBERN—Odum, E.
Parker, S. B.
RALEIGH—Briggs, Thos. H. & Sons
Lumsden Bros.
ROCKYMOUNT—Dixon, G. R.
Green, P. Cicero
Lane, J. E.
SALISBURY—Gantt & Kluttz
Limerick, H. W.
STATESVILLE—Frazier, T. W.
Nicholson, J. W.
TARBORO—Bramble, A. E.
Hurst, J. B.
Sledge, H. B.
WILMINGTON—Holden, H. K.
Piver, R. L.
Smith, S. L. & Son
Toler, T. S. & Son
WILSON—Dildy & Agnew
Hagan, Robert E.
WINSTON SALEM—Blum, P. W.
Brickenstein, L. B. (Slate, Metal & Gravel)
Morgan & Cuthrell

## NORTH DAKOTA.

DEVILS LAKE—Eudell Bros.
Barnes & Nuss Co.
FARGO—Harrington, Hubert
Marden, J. H.
GRAND FORKS—Barnes & Nuss Co.
JAMESTOWN—Thornhill, E. B.
KENMARE—Dumars. J. K.
LISBON—Cole, J. S.
MINOT—Devereaux, J. E.
Dorman, D. C.
Elzenhofer. B. M.
Eroe, C. C.
WAHPETON—Jamieson, W. W.
Schultz, O. H.

## OHIO.

ADA—Riddle. J. C.
ADELPHI—Binkley, Cary L.
AKRON—Akers & Co., 1084 E Market
Akers & Harpham (Slate, Gravel & Metal), 200 E Mill
Akron Hardware & Spouting Co., 385 E Exchange
Akron Roofing Co. (Slate, Metal & Tile), 104
Akron Roofing Tile Co. E Exchange
Akron Tin & Furnace Co., 1503 S Main
Blumenstein, George
Bowers, T. A.
Corey Bros.
Dietz & Haberkost
Gross, John
Harter & Milar
Kasch Roofing Co. (Slate, Tile, Metal &
Kidder Hardware Co. Comp.)
Knapp, John G.
Lind Bros. (Slate, Felt & Metal)
May & Fieberger Co. (Metal)
Miller, Elmira E.
Neff Bros.
Pettit Bros. Hardware Co.
Popovitz, George
Pouchot, Hunsicker Co. (Slate & Metal)
Rutherford, J. & Son
Viers Co. (Metal)
Wells, F. A.
ALLIANCE—Drukenbrod, F. (Slate & Tin)
Howson & Co.
Keyes, Hugh (Slate & Metal)
Love, Casselman & Co. (Slate & Metal)
Ruhl, George W.
Sluss, M. (Slate)
Totten, W. G.
ASHLAND—Ambrose, Thomas B.
Marks, F. R. (Slate & Metal)
Moore, O. S.
Pittinger, Jno. R.
Wicks, P. F.
ASHTABULA—Beidler, A. M.
Smith, H. B.
Tingley, H. M.
Van Tassell Hardware Co.
ATHENS—Nye, L. C.
White, F. P.
Wilson, C. B.
AUSTINBURG—McClure, J. H.
BARBERTON—Hickox, W. R. & Co.
Miller Roofing Co. (Slate, Tin & Iron)
Sensinger, Edwin
BARNESVILLE—Anderson, W. H.
Douglass & Carr
Graham, T. J.
BASIL—Weaver, Jas. M.
BATAVIA—Gunderloy, G. W.
BELLAIRE—Kern, Andrew (Slate & Metal)
Mahaffee & Son
Neutzling, D. L.
Timmberlake, J. R.
Vater, Leon
Zweig, John
BELLE CENTER—Oliphant & Black
BELLEFONTAINE—Easton, F. B.
Fleming & Krouse
Whitecomb, E. S.
More, F. O. & Son (Slate, Metal & Comp.)
BELLVILLE—Dougherty, J. M.
BEREA—Curtis & Wagner
Elmore, Chas.
BERLIN—Hochstetler, E. J.
BETHEL—Armour, J. A.
Davis, Chas. F.
Thomas, Harry
BLANCHESTER—Hampton & Scott
BLUFFTON—Scheid, Theo. G.
BOLIVAR—Lash, D. F.
BOWERSTOWN—Boor & Hamil
BOWLING GREEN—Campbell & Collier
Goit & Son
BUCYRUS—Blair, E.
Jolly Bros. (Slate & Metal)
Picking, D. & Co. (Slate & Metal)
Walther, F. A.
CADIZ—Bryant, H. E. (Comp. & Gravel)
Lee, B. S. (Comp. & Gravel)
CAMBRIDGE—Brown, Jas. G.
Burgess Mfg. Co.
Cambridge Roofing Co. (Slate & Metal)
Hartley, W. H. & Sons (Slate & Metal)
CANAL DOVER—Adams, Thompson & Co.
Myers Bros. (Slate & Metal)
Notter. E. A.
Schneider & Thompson
CANTON—Beard, Murray (Slate)
Buckius, W. H.
Canton Cornice & Skylight Co.
Culp, T. S.
Fife Bros. Co.
Grosjean, W. S.
Groner, C. O.
Keefauver, H. A.
Koch, Peter
Lawrence, O. F.
Merriam, Frederick (Slate)
Merriam, W. S.
Pfifer & Whitmer
Peter, W. O.
Piper, Frank A.
Reichenbach, U. A. (Slate)
Rex, Charles
Rex, E. J.
Taylor, Jackson
Van Dorsten & Muckley
Weimer, H. & Son
Widder, F. E. Co.
Wilson & Co.
Yost, L. P. D.

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CARTHAGE—Knapp, Frank M.
CELINA—Feldheiser & Bryson
McComb, Charles
Winters, A. A.
CHAGRIN FALLS—Lines, W. O.
CHARDON—Parks & Barker
CHICAGO JUNCTION—Sennett, O. F. (Slate)
CHILLICOTHE—McNeilus, Wm. A. (Slate & Spetnagel & Moore Metal), 95 E 2d
CINCINNATI—Ahrens, Wm. F., 918 Mound
Alge & Zent, 428 Reading rd
Ammann, Albert Roofing & Cornice Co., 902 John
Andler, Adam (Slate, Metal & Tile), Highland av & Sletson
Andriot, John H., 3415 Montgomery rd
Anspach, Edw. F., 340 Fairfield av W H
Arndt, Robt. L., 2650 Western av
Avril, Ferd. & Sons, 2871 Colerain av
Avril, Louis, 2871 Colerain av
Beckman, Wm., 1543 Race
Biermann, M., 3244 Jefferson av
Blum, Albert (Slate & Metal), 2837 Woodburn av
Boesch, Victor P. & Son (Slate & Metal), 2432 Eastern av
Brandis, Louis, 3209 Harvey av A
Brandis, Wm. (Slate & Metal), 3109 Read
Breese Bros. Co., 121 E 7th
Brockmann & Schuessler (Metal, Tile & Slate), 328 W 3rd
Burke, Peter, 640 B'way
Camp Washington Roofing Co., 2834 Colerain av
Cincinnati Roofing Co. (Asphalt & Gravel), 220 P. O. sq
Cincinnati Roofing & Paving Co., 251 Setchell

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428 Kinsley av, Providence, R. I. (See adv. index, end of book)

Couzins, John, 3490 Reading rd A.
Daly, William T., 1703 Madison rd
Dawson, J. G., 409 Carlisle
Dearking, Fred W. & Son (Slate & Metal), 3822 Glenway av
Deck, G. H., 913 Vine
Dietz, Geo., Jr., 2708 Eastern av
Dirr, George L. & Son (Slate & Metal), 3631 Warsaw av
Duecker, Wm., 4144 Hamilton av
Eble, Chas., 1802 Vine
Edwards Mfg. Co., Eggleston av c 5th
Eisert, Henry, 1534 Race
Emmers Cornice Co., 1007 B'way
Fahnle & Dietrich, 537 Oliver
Farwick, Jno. H., 123 W Court
Fellers, Harry J., 970 E McMillan
Felix, John, 1332 Baymiller
Felix, William, 1611 Western av
Fetschan, Louis
Fischer, Wm. G., Stove & Range Co., 221
Fisher, Philip, 1066 Central av W 3d
Fogerty, F. & Co., 332 E Pearl
Fox, Wm. H., 2450 Gilbert av
Frank, Andrew, 900 State av
Freund, Jacob Roofing Co. (Slate, Metal & Tile), Mitchell av & B. & O. S. W. Ry.
Germann, Alex. E., 613 College
Getchell, S. D. Co. (Asphalt & Gravel), 1109 Gilbert av
Gibson, E. L., 409 Carlisle av

GILMAN SNOW GUARD
103 Merrimac, Boston, Mass. (See adv. index, end of book)

Gladen, Mrs. T., 637 E Pearl
Globe Paint & Roofing Co., 232 W 8th
Goosman, J. & C., 1628 Race
Greiwe, E. & Bro. (Slate & Metal), 1128
Grote, C. L., 3011 Cinnamon B'way
Grueninger, Louis, S E c Court & Freeman
Hader, Andreas, 3232 Harrison av av
Harford, M. & Son, 314 Butler
Harkness & Towler (Asphalt, etc.), 1662 Providence
Hauck, Michael (Slate & Metal), 14 E 13th
Heatley, George, 3801 Eastern av
Herbst, H. L., 1333 Linn
Hirt Bros. (Slate & Metal), 1814 Race
Hoeltge, Fred, Jr., 1921 Gest
Honhorst, Jas. Co., 1016 W 6th
Howard, Franklin, 1612 Sycamore
Huelsman & Moore, 134 Opera pl
Hyde Park Roofing Co. (Slate & Metal), 2681 Madison rd
Hyndman Roofing Co., 320 E 2d
Imbus, Henry, 417 W 5th
Jansen Co., 2140 Gilbert av
Kearney, James T., 940 Linn
Keller, L. E. & Co., 3811 Spring Grove av
Kennen Sheet Iron Works, 525 E Pearl
Kirk & Blum, Pioneer & Culvert
Kline, Martin, 1027 Cutter
Klinkenberg, O. A., 3443 Reading rd
Kobmann, Charles (Slate & Metal), 1919 Central av
Kopelent, Henry (Slate & Metal), 2723 Vine
Korb, John P., 3203 Harrison av
Kruckmeyer, L. Co., 110 E Liberty
Kuhlmann, George, 1115 Main
Kurs, Henry, 2827 Colerain av
Lalley, Michael & Co., 216 Elm
Lemon, W. A., 947 W 8th
Leonard, Michael W., 1508 Chase av
Lindemann, Aug. E. (Slate & Metal), 2620 Vine
Loesch, Fred, 2138 Central av
Loesch, W. F., 2943 Colerain av
McDonald & Robson, 329 E 8th
Macke, C. G. & Co., Canal & Elm
Marcus, David, 1552 John
Mastic Wall Board & Roofing Co., 33 E 3d
Meyer, Edw. & Co., 212 Wade
Miller, Frank, 705 Carr
Neabrey, John H. (Slate & Metal), 637 W
Noll, Geo. A., 1186 Harrison av Court
Opp, F. & Son, 509 W Liberty
Opp. John, 2930 W 6th
Parker, Edward, 438 E Pearl
Peal, Jacob, 933 W Liberty
Peal, S., 440 Armory av
Pfau Bros., 231 W 5th
Piker, Samuel, 682 W 5th
Pilger, J. S., 1507 Central av
Porter Iron Roofing & Corrugating Co., 425 Culvert
Preston, Alfred, 2716 Alms pl W H
Queen City Exhaust & Blow Pipe Co., 1732
Reich, Joseph, 800 W 7th Central
Reulmann, H., 930 W 7th
Roseboom, J. G., 746 Betts
Rothert, Hug., 1603 Main
Ruehlmann, Fred., 1414 Walnut
Saile, Adolph (Slate & Metal), 522 W 5th
Schmidt, Louis, 1215 Central av
Schneider, F. W., 836 E Rose
Scholle, Chas. H., 2611 Cook
Schultz, Henry, 1432 Sycamore
Schwartz, Mendel, 516 W 6th
Scott Roofing & Mfg. Co.
Segal, Samuel, 620 John
Shaw & Stechow, 811 Central av
Singleton, Ruffner & Co. (Asphalt & Gravel, etc.), 8th & Plum
Smith, J. S. & Co., 6 N E c 8th
Smyrl, R. J., 308 E 5th
Sosinsky, A. & Co., 259 W McMicken av
Spatz, Wm. C. (Slate & Metal), cor Powers & Tozzer
Standard Roofing Co., 1662 Providence
Stifel, John, 1816 Elm
Sweeney, E., 111 Sycamore
Sweeney, Jeremiah A. & Co., 829 W 5th
Taylor, A. P., 3586 Haven
Trinidad Asphalt Roofing Co. (Asphalt, Gravel & Comp.), 215 W 3d
Verges, F. F. (Slate & Metal), 2543 Vine
Vietor, Edward J., 1749 Queen City av
Weigel, John Co. (Slate & Metal), 664 E McMillan
Weissenberger, Mrs. Geo. K. (Slate, Tile & Metal), 4004 Spring Grove av
Wesler, H. F., 1038 Linn
Weyler, Frank, 1108 W 8th
Wheeler, Otto B., 313 E 3rd
Wietlisbach, Alois, 1810 Linn
Witt & Brown (Slate, Metal & Tile), 215 W 3d
Weyler, Frank, Jr., 1107 W 8th
Wolitzer, Marcus, 630 Mound
Wolpa, Louis, 573 W 6th
Wuenker, H. F., 2441 Gilbert av
Zoller, Fred., 1732 Central av
Zoller, Louis, Jr., 1512 Harrison av
CIRCLEVILLE—Crist Bros. (Slate & Metal)
Hoffman, Wilson & Marion (Slate & Metal)
McMullen, G. J. & Son (Slate & Metal)
CLEVELAND—Apel, Lawrence, 9203 Kinsman rd, S E
Beck, William E., 1138 W 11th, N W
Benedict, N. J. & Sons, 3519 St Clair av, N E
Berg, Geo. A., 3013 Cedar av, S E
Brennan, T. J., 2913 Central av, S E
Bringman Bros., 2110 Superior
Broz, M. F.
Buell & Frantz, 5312 Euclid av
Callaghan, J. & Son (Slate & Metal), 1119 Superior av, N E
Cater, E. U., 9604 Madison av, N W
Cleveland Metal Roofing & Ceiling Co., 3105 Detroit av
Cleveland Sheet Metal Works, 6933 Superior av, N E
Compton, J. A. & Son, 3847 Cedar av, S E
Cooley, H. E., 2618 Detroit av, N W
Duffner, Gordian, 4216 Lorain av
Feder, Samuel, 4505 Central av, S E
Fetzer, M. & Sons, 3503 Central av, S E
Forest City Htg. & Supply Co., 8215 Cedar av, S E
Forrest, R. T., 7800 B'way, S E
French, Walter T., 6111 Woodland av, S E
Fuerst, J. E., 979 Potomac
Gable, Jacob, 1585 Columbus rd
Garry Iron & Steel Co., 1270 E 53d N E
Gnuschke, Gustave F., 7001 Kinsman rd,
Gould, Lee H. & Co., The Arcade S E
Grant, Jesse, 3617 Detroit av, N W
Green, A. A., 5911 Woodland av, S E
Greenberg, Max & Co., 3712 Scovill av, S E
Grimm, Nicholas, 1506 Scovill av, S E
Guest, F. C., 5120 Lorain av
Gunton, Wm.
Haettich, Chas., 3425 W 60th, S W
Halter, Jacob, 2067 W 14th, S W
Harrison Bros., 2912 Central av, S E
Haskins, J. H. Roofing Co. (Asphalt & Gravel), 2811 Clinton av, N W
Henninger & Decker
Hippler, Albert, Jr., 1320 E 68th, N E
Hundertmark, Benj., 4418 Memphis av, S W
Huntington Henry J. (Comp. & Slate), 1010 Superior av, N E
Huntington, John, (Asphalt, Gravel, etc.), "The Arcade"
Hussey Sheet Metal Works
Jones, Joseph F., 6505 Linwood av, N E
Johnson Roofing Co. (Asphalt, Slag & Gravel), 2234 E 82d, S E
Kleppel, William, 3515 E 93d
Klose, Henry & Son (Slate)
Koberna, Charles & Co., 3696 E 49th, S E
Koberna, John, 3621 E 49th, S E
Korner, C. J. & Co., 2911 E 34th, S E
Lake View Tin & Furnace Co., 1871 E 119th
Lockwood, S. A., 5368 St. Clair av, N E
Mannen & Esterly Co., 2247 St. Clair
Matheis Bros., 2622 E 76th, S E
Mayer, Joseph, 2205 W 40th, S W
Meder, Bernhardt, 3407 W. 56th, S W
Mitchell, G. F. & Son, 2137 E 2d, N E
Moore, A., 6907 Lexington av, N E
Morgan Bros., 8716 Nevada av, S E
Norton Bros. (Gravel, Asphalt & Comp.), 2667 E 69th, S E
O'Connor Bros., 3310 Superior av, N E
Ohio Roofing Co. (Slate, Metal & Tile), 1477 Euclid av
Opre, Wm. M. (Slate & Metal), 8833 B'way
Orkin Bros., 2808 Woodland av, S E
Ortli, Charles F. (Slate & Metal), 2510 Barber av, S W
Parks, A. F., 2219 E 101st, S E
Paul, Richard R., 2427 E 79th, S E
Paehlke & Son, 6810 Lawnview av, N E
Reese, August F., 3117 Seymour av, S W
Riester & Thesmacher Co., 1526 W 25th, N W
Rudolph & Son Co. (Slate, Gravel & Metal), 416 Prospect av, N W
Sanders, Nicholas, 2428 E 83d, S E
Schlegel, Emil C. & Sons, 6210 Madison av
Schwertner, R., 1245 St. Clair av, N E
Sheahan, Martin W. & Son, 1623 St. Clair
Smith, W. E., 4701 Central av, S E
Sommers, C. A., 2220 E 100th, S E
Soros, Albert, 5514 Bridge av N W
Stran, C. W. (Slate & Metal), 1288 E 9th, S E
Tlapa, John & Co., Morgan av c 65th, S E
Uhl, William, Grand av cor Kinsman rd
Urick, Fred J.
Wachalec & Vlasak, 8619 Quincey av, S E
Watson & Lawrey, 1459 Addison rd, N E
Waulker & Rueter
Yahrus, John, 3803 B'way, S E
Zellers, George & Co., 5803 Woodland av,
COLDWATER—Hoyng, J. F. & T. J. S E
Wapelhorst, Hy.
COLLEGE CORNER—Weidner, G. G.
COLLINWOOD—Collinwood Hdw. Co.
Skinner & Richards Co.
COLUMBIANA—Beard, John
COLUMBUS—Achauer & Edwards, 1135 N Alter, Ralph H., 866 Parsons av High)
Amnah, Edw., 766 Cleveland av

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Armstrong, B. D., 24 Spruce
Bailey & Snouffer, 262 N High
Blackwood, Green & Co. (Slate, Tile & Metal), 624 N High
Bohnert, M. J., 1935 Parsons av
Bradshaw, A. L., 207 E Long
Calkins Bros. Co., 752 E Long
Claar, W. L., 2574 N High
Columbus Roofing & Supply Co. (Comp.)
Consolidated Roofing Works (Asphalt)
Cussins & Fearn, 653 W Broad
Daeumler, Geo., 375 S High
Farmer, J. N., 1664 W Broad
Gabriel, Geo., 382 W 2d av
Halladay, C. B. & Co., 210 N Water
Hilliker, W. C., 38 N Washington av
Hirschmann Bros., 411 S Pearl
Kaiser, Andrew (Slate & Metal), 890 N High
Kaiser, Wm. J. (Slate & Metal), 121 E Chestnut
Kerins, Andw., 43 E Lynn
Killets, J. F. (Comp. & Gravel), 1151 N High
Kleinlein & Benningnus, 306 E Main
Knell, Philip (Slate), 291 E. Livingston av
Kromer, Philip F. (Slate & Metal), 669 St Clair av
Lamneck Co. (General), 1135 Vernon av
Learn & Brindle, Locust, cor Wall
McCoy, J. L., 1235 N High
Miller Bros., 467 Oakland av
Miller, Jno. W., 491 W Goodale
Ochs, G. W. (Slate & Metal), 1114 E Main
Lind, Chas., 156 N 9th
Pritchard, Dow, 787 Grove av
Reichenbach, 896 E Main
Reither, Edw. A., 839 S Wall
Riddle & Son (General), 893 N High
Root, Charles, 813 S High
Schilling, John N. (Slate, Metal & Comp.)
Schoedinger-Marr Co. (Slate, Tile, etc.), 146 N 3d
Schwartz, Maurice, 346 E Livingston av
Shaffer Roofing Co. (Asphalt, Gravel, etc.),
Sheets, Frank, 344 S 4th 431 W State
Snyder, Geo. & Son (General), 163 N 9th
Spohn, Valentine, 177 S Pearl
Stiles, S. T. (General), 405 E Livingston av
Zimmerer, Christian, 641 S 3d
Tobin, Jas., 52 W Walnut
Volkwein, Geo., 242 E Long

CONNEAUT—Arthur, George T.
Matson, C. F.

COSHOCTON—Leffler, Mrs. A. M.
Reed, E. R.
Wolford, C. S.

CRESTLINE—Holcker, R. & H. (Slate & Metal)

CUYAHOGA FALLS—Loomis, L. W. Hdw. Co.
Walker, J. H.

DAMASCUS—Delzell, C. G.
Dalzell, O. V.

DAYTON—Baker, John R. (Tin & Slate), 631 W Washington
Boulie, John L., 128 S Williams
Bretch, A. (Slate & Metal), 126 E 5th
Bussdicker, Fred. (Slate & Metal), 1619 E 3d
Buvinger, G. W. & E. E. (Slate, Metal & Tile), 327 E 3d
Callahan, Henry (Slate & Metal), 23 W 2d
Cammerer, Chas. & Son, 38 N Valley
Carroll, D. & Son
Couch, A. M. (Slate & Metal)
Dayton Asphalt Roofing & Paving Co. (Asphalt), 16 S Canal
Dayton Felt Roofing Co. (Felt, Pitch & Gravel), 15 N St. Clair
Dixon, Henry, 629 S Wayne av
Hemberger & Vanbel (Tin & Slate), 850 S Brown
Hoersting & Holtmann (Iron & Felt), 1124 W 3d
Jungclas Cornice & Furnace Works (Slate & Metal), 609 W Wash'n
Kenney, Jno. R. (Slate & Tin), 253 S Wayne
Kline, Jas. E. (Slate & Metal), 1430 S Wayne av
McLardie, Chas. N. (Tin & Slate), 415 E 5th
Miller, Wm. E., 401 N Main
Nicholas, Grant W.
Reese, Jno., 36 E 2d
Rieck, Bernard R., 431 E Xenia av
Rieck, H. F. (Asphalt, Slate & Metal), 506 S. Wayne av
Santo, Herman (Tin & Slate), 615 E Xenia av
Scott, Alfred M., 2506 E 3d
Shonk, David N. (Slate & Metal), 1st & Summit
Soehner, Herman (Slate & Metal), 112 S Jefferson
Sullivan, Percy E., N S Xenia Pike, E of Smithville rd
Sullivan, Geo. E., 1925 E 5th
Sullivan, S. W. (Tin, Slate & Galvanized), 226 N. Valley
Sweetman, Christ. (Asphalt), 54 S Bank
Walker, Edward W., 321 E Hughes
Weidner, Otto W., 17 Allen
Wintersteen, C. A., 408 W 3d
Wuichet, Chas. & Co. (Slate, Metal & Tile),

DEFIANCE—Kehnast & Smith 14 S Canal
Krull, F. H.
Mallet, J. G.
Torrence, Chas.

DELAWARE—Schauck, C. A.
Slawson, A. H.

DELHI—Schwinderman, Frank (Slate & Metal)

DELPHOS—Delphos Hdw. Co.

DENNISON—Boeck, Gustav
Haas, G. D.
Henry, Lawrence

EAST LIVERPOOL—Allen, B. E.
Batey, J. M.
Capehart, L. T. & Co.
Watson, A. A.

ELMWOOD PLACE—Krais, Henry & Co.

ELYRIA—Elyria Hdw. Co. (Slate & Gravel)
Fitch, A. W.
Heldmeyer Hdw. Co.
Whitney, E. F. & Son

FAYETTE—Russell & Son

FINDLEY—Daymon, W. L.
Fiscus, W. J. (Slate, Comp., Gravel, Tin & Metal)
Gates, N. S. & E. W. (Slate & Metal)
Hoffman & Bryan (Slate, Comp. & Metal)
Klein, Fred (Slate & Metal)

FOREST—Young, J. W. & T. M.

FOSTORIA—Baker, W. E.
Ballmer, D. R.
Burk & Griffin
Newson, Jas. L.
Rollins, S. A.
Stewart Hdw. Co.
Wagner, Elmer

FRANKFORT—Briggs, R. W.

FREMONT—Billow, Henry & Son
Coleman & Baringer
Smith, J. Bell
Swint-Reineck Co.
Winters, F. J.

GALION—Amick, H. G.
Helcher, C. & Son
Resch & Casey
Zimmerman, J. H.

GALLIPOLIS—Langley, Henry W.
Lawson, J. A.
Leeper, Chas. W.
Lewis, Timothy
Rue, Jno. C.

GLENDALE—Dollman, J. W. (Slate & Metal)
Schatzman, P. & Son (Slate & Metal)

GREENFIELD—Langley, George W.
Oxley, N. C.
Strobel, W. F.

GREENVILLE—Craig Bros.
Humphrey, R. T. (Slate)
Rehling, Fred.
Wolf, F. M.

GREENWICH—Viers, J. L.

HAMILTON—Bast, Geo. (Slate & Metal), 151 N 3d
Bauer, Ed.
Becker, Jno. L., 329 Market
Ehrhardt, Wm., 110 Main
Held, Philip & Son (Slate, Metal & Gravel),
Henn & Buffler 12 S 3d
Matthias Stove Co., 33 Main
Moebus, Edw. C., 215 Court
Morner, John E.
Schlosser, Jacob & Son, 340 High
Zschau, A. E.

HARTVILLE—Ebel & Son

HARTWELL—Kleespies, C. J. (Slate & Metal)

HILLSBORO—Brown, P. E.
Mauntel, Geo. O.

IRONTON—Fillgrove, L. A. (Slate & Metal)
Ironton Roofing & Corrugating Co.
Miller, Chas. F. (Slate & Metal)
Scherer, Mrs. Constantia (Slate & Metal)
Turnbull, J. T. (Slate & Metal)

KENT—Carlile, L.
Reed, C. R. (Slate & Metal)
Vickers, H. W.

KENTON—Fink, Jno. & Son
Held, P. B., 207 W Columbia
Herron, Robt. C.
Tullis, D. L.

LANCASTER—Baumeister, Jno. H.
Gardiner & Hughes (Slate, Iron, Steel & Tin)
Judy, Frank
Kerns, E. O.
McMananey, James (Est. of) (Slate, Iron

LEBANON—Grim, Geo. W. Steel & Tin)

LEETONIA—Groner, S. S.

LIMA—Baumgardner & Goedde
Blattner, S. G.
Day, E. W.
Elliott, E. J., 243 N Charles
Francis, Hugh, 226 S Main
Finn, D. P.
Good & Turney
Miller, J. T.
National Cornice Co. (Slate & Metal), 121 E High
Roush, Theo., 117 E North
Smith, W. A.
Thompson, J. L.

LISBON—Armstrong, P. M. & Co.
Whitacre, Jno. (Slate)

LOCKLAND—Dauterich, E. (Slate & Metal)

LOGAN—Armstrong, C. P.
Logan Roofing Works
Work Bros.

LONDON—Buckley, Thos.
Speasmaker, P. Sons
Thomas & Armstrong

LORAIN—Alten, N. C. (Slate & Metal)
Lorain Hdw. Co. (Metal & Slate)
Mortimer, E. E.

LOUDONVILLE—Lepold, A. B. (Slate & Metal)
Miller's, L. S. Store (Slate & Metal)
Yuncker, H. E.

LOUISVILLE—Bauman, G. F.
Bowen, Josiah & Son (Slate & Metal)

LYNCHBURG—Murphy Bros.

McARTHUR—Lantz, Isaac
Witherspoon, John P.

MADISONVILLE—Blaney, U. G. (Slate & Metal)
Curtis, J.
Redman Bros. (Slate & Metal)

MALVERN—Lewis, W. C.

MANCHESTER—Kirschner, F. V. & Co.
Lang Bros.

MANSFIELD—Crouse, F. & Son (Slate & Metal)
Donaldson, George W. (Slate & Metal)
Flohr, G. A. (Slate & Metal)
Harris, Wm. M.
Harter, Sherman (Slate & Metal)
Hoffman, Chas. (Slate & Metal)
Malone, E. F.
Martin, C. E. & Bro. (Slate & Metal)
Moore, B. M.
Runyon, C. C. (Slate & Metal)

MARIETTA—Hall & Lusk
Morgan, J. W.
Seyler Hardware Co.
Theis, H. P.

MARION—Edsell, Frank C.
Heldman, Oliver
Parratt, W. P.
Saiter, F. R. (Slate, Metal & Comp.)

MARTINS FERRY—Bayliss Bros.
Horcher, A. A.
Koeherson, M. E.

MARYSVILLE—Church Hardware Co. (Slate, Gravel & Comp.)
Emmert, Conrad & Co.
Turner, Richard

MASSILLON—Kammer, C. F. & Co. (Slate & Metal)
Koontz, F. L. (Slate & Metal)
Kracker, Chas. F. & Co.
Oberlin, Chas. E.
Pinkle & Gleitsman
Portman, A. F. (Slate & Metal)

MAUMEE—Myers Hardware Co. (Slate, Metal, etc.)

MEDINA—Oatman Hardware Co. (Slate & Gravel)

MIAMISBURG—Schell & Pansing

MIDDLEPORT—Tewkesberry, G. W.

MIDDLETOWN—Barnett, J. C.

MILLERSBURG—Fitch, John
Helmuth & Burkey (Slate)
Hinkle, Jas. O. & C. O. (Slate)
Shoup, Calvin C.

MINERVA—Gallatin, G. W.
Hoffman, Monroe

MINSTER—Kempker, Theo.
Kramer, J. F.

MOUNT EATON—Schlafly, S. A.

MOUNT GILEAD—Rule & Dumbaugh
Sames & Struble

MOUNT HEALTHY—Jackson-McNutt Co.
Sorn, John

MOUNT VERNON—Bird Bros. (Slate & Metal)
Chase, O. C. & Sons
Umback, George W.
Umback, J. J.

NAPOLEON—Groschner, Otto A.
Hines & Son

NEWARK—Bailey & Keeley (Slate & Metal)
Clark, A. S.
Jones, J. C.
Magee & Davis
Nutter & Bishop
Weakley, J. W. (Tin & Slate)
Woodward, E. L.

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NEW PHILADELPHIA—Koons, H. G. (Slate
McClelland, Alex. K. & Son & Metal)
Taylor, O. P. & Son
Williams, Forest
Zellner Co. (Slate & Metal)
NILES—Cramer Bros.
Eaton, J. W. (Slate & Metal)
Niles Plumbing & Heating Co. (Slate &
Union Roofing & Supply Co. Metal)
NORWALK—Gfel, J. H. & Co.
NORWOOD—Braun, A. & Co.
Drier, Wm.
Gerth, Anton
OTTAWA—Frey, E. L.
Schierloh, C. A.
PAINESVILLE—Andrews, S. & Sons
Donaldson, D. & Son
Richardson, J.
PIQUA—Alsbaugh, Fred'k (Slate & Metal)
Heidle, Geo.
Kienle, Hy.
Lee, Geo. E. (Slate & Metal)
Norr, T. H. (Slate & Metal)
PLEASANT HILL—Whitmer Bros.
PLYMOUTH—Becker, F. L.
POMEROY—Prall, D. M.
Remington, B. R.
Skinner Hardware Co.
PORT CLINTON—Mizener & Orth
PORTSMOUTH—Arnold, Aug. (Slate & Metal)
Conroy & Thomann
Glockner, Alexander M.
Haney, W. S.
Hoffman & Parker
Hook, Frank
Lauter, Louis
Roth, Valentine
RAVENNA—Beckley, C. A. (Est. of)
Dodge, L. C. & Co.
Dole, J. G. & Son
Hunt, L. F. & Son
Schultz, Henry (Slate & Metal)
READING—Hausser, Jos.
Hausser, George
ROSEVILLE—Zehrung, S. P.
ST. MARYS—Bishop, A. F.
Heisel, A. F.
Meyer, Louis
SALEM—Ashead, J. M.
Forsythe, Peter
Gamble, George W.
Harris, P. E.
Kyle, W. W.
Obenour, Geo. W.
Salem Furnace Co.
Walton, J. L.
SANDUSKY—Andrews, S. & Son
Bitters, Joseph
Blatz & Beutel
Gundlach, Chas. W.
Hemmerle, Frank J.
Matern, Henry
Mertz, Jacob & Sons
SCIO—Ross, Chas.
Sandusky Plbg. & Roofing Co.
SCIO—Menkel, H. I.
SENECAVILLE—Brown & Lepage
SEVEN MILE—Hill, R. & Son
SHANESVILLE—Smith, Jno.
SHAWNEE—Williams, Jno. E.
SHELBY—Armstrong & Raugh (Slate &
Metal)
Drake Hardware Co. (Slate & Metal)
Seltzer & Baker
SHERODSVILLE—Williams, Mrs. M. A.
SIDNEY—Bayley, P. H. (Slate & Metal)
Line, Davis & Co.
Rheinisch, G. A. (Slate & Metal)
Rostron, Jas.
Steinle & Miller
Stockstill, F. M.
SOMERSET—Safford, Geo. H. & Co.
Yarnell, J. H. (Slate, Tin & Metal)
SOUTH CHARLESTON—Battin & Stoecklen
(Slate & Metal)
SPENCER—Oakley, S. D.
SPENCERVILLE—McClain, A. W.
Pohlman, Chas. L.
SPRINGBORO—Hadley, J. W.
SPRINGFIELD—Fisher, W. Frank B., 23 W
College av
Hauck, Chas. F. & Co., 35 W Main
Hendrickson & Petticrew, 30 N Fountain av
Humphreys, J. A. (Slate & Metal), 66 S
Lafferty, S. J. & Sons Limestone
McDonald, W. D. & Co.
Otto, F.
Peet & Schuster Co. (Slate & Asphalt), 118
Schenck & Son S Center
STEUBENVILLE—Bentz, W. K. (Metal)
Linehan, C. E.
Morgan, Edward (Slate, Comp., etc.)
Mosel, F. W.
Powers, H. P.
Yocum, F. M.
SWANTON—Walsh, Jas.
SYCAMORE—Staum, Martha R.
Wagstaff, B.
TIFFIN—Burke, John
Crobaugh & Dahm Hardware Co.
Ernest, G.
Gahris, J. L. (Slate, Metal, Gravel & Felt)
Gundlach, A. W.
La Bar, J.
Smith, Jacob
Steinbrick, Louisa
Strandler, P.
TIPPECANOE CITY—Hauck, C. A.
McClure, J. W.
TOLEDO—Albert, A. J., 610 Lagrange
Albrecht, J. H., 1825 Spielbusch av
Alexander Hardware Co., 636 Huron
Aman, John & Co., 810 Nebraska av
Arnold, J. L., 1414 Dorr
Auburndale Hardware Co.
Aufderheide, H. F., 618 St. Clair
Bally, Albert C., 932 Post
Beach, E. A., 804 Western av
Beck, William, 1501 Walnut
Becker, M. R., 516 Galena
Benner, L. C. H., 710 Summit
Bihn, John L., 93 Main
Burdick, L. F. Co. (Slate, Metal & Comp.),
2011 Adams
Burmaster, Wm. H., 1220 Michigan
Carey, Philip Co. (Asphalt), 120 Summit
Cresswell, J. L. (Metal), 120 St. Clair
Curran & Firth (Steel & Tin), 620 Monroe
Dersher, Jos., 923 Canton
Durell, Wm., 3426 Lagrange
Eberth, W. M. & Co. (Slate & Metal), 124
Faunce, A. E., 626 Western av St. Clair
Finn Bros., 2118 Monroe
Frech, Jacob F., Ontario & Orange
Garvey, M. J., 107 Michigan
Gerken, J. D. & Co., 1309 Wash'n
Gors, Herman W., 1844 B'way
Hofer, Fred'k, Jr. (Slate & Metal), ft
Wash'n
Hofer, G. & Co. (Slate & Metal), 13 St. Clair
Hoffman, Harpst & Co., 1005 Cherry
Hough, Wm. M., 749 W Central av
Hull, B. R., 638 E B'way
Hummel & Hillebrand (Asphalt & Comp.
Gravel), 427 Hamilton
Kamper, A. H. & Co., 531 S St. Clair
Klink & Yeoman, 115 Euclid av
Kloeppinger, G. F. C. (Slate, Metal, etc.),
130 Ottawa
Laures & Pfann, 1805 Canton
Loeffler & Christen, 1401 Cherry
McManus, William, 917 Summitt
Meier, E. T., 708 Hamilton
Meyerhofer, H., Jr., 313 Field av
Munding, Adolph, 325 Plymouth
Miller Chas. F. (Slate & Metal), 3246
Monroe
Neipp, Jno. W., 1515 Lawrence
Pollman, E. H., 708 Collingwood av
Ramler, M. J. & Sons, 1017 Summit
Richards, Charles E. G., 8 St. Clair
Sabin Bros. (Steel & Tin), Smead av,
Sailer, Ignatz A., 612 1st n Monroe
Scharer, Mrs. J. H., 1608 Cherry
Schillenger Bros. Co. (Gravel, Asphalt &
Composition), 215 City Park av
Sheon, Thos., 133 Mumee av
Swantock, John, 1401 Vance
Toledo Cornice & Copper Works (Metal &
Slate), 130 Ottawa
Toledo Roofing & Painting Co. (Gravel,
etc.), 717 Tre Nasby
United States Roofing Co. (Relt & Gravel),
1052 Oakwood av
Warnke Bros. Co., 23 Erie
Weber, John, 726 Belmont av
Wilhelm, F. J., 1104 Monroe
Williams, Sam'l, 2204 Lagrange
Wortsmith, Frank, 415 Huron
TORONTO—Allison, Wm. E. (Slate)
Boswell, S. (Slate & Metal)
TROY—Cosley, H. A.
Hatfield & Scott
Kauffman, Chas.
Oblinger, J. W.
Schnaible & Smith
Schnell, George
UHRICHSVILLE—I. G. Roby (Slate & Metal)
Smith, Leslie
URBANA—McCracken, J. C. & Sons
Schieldt Bros.
VAN WERT—Clark, D. A.
Putnam & Lillich (Slate)
WAPAKONETA—Foos & Wehner
Kolter, F. F.
Schemmel & Matlehner
Schminke, August
WARREN—Boorn, E. C.
Browning Bros.
Fox, P. H. (Slate & Metal)
Skinner, L. E.
WASHINGTON—Allen, Chas.
Karney, F. P.
Shaw, O. H.
Wilson, Jno. W. & Co. (Slate & Metal)
WASHINGTONVILLE—Gilbert, J. E.
WAUSEON—Harper, W. J.
WELLINGTON—Pierce, A. H.
WELLSTON—Brandau, Frank
Rupp, Geo. H.
Rupp, J. H.
WELLSVILLE—Morrow Bros.
White, P. H. & Son
White, Perkins & White (Slate & Metal)
WILLOUGHBY—Yaxley, W. H. & Son
WILMINGTON—Chaney, Chas. W.
Crane, F. J.
Jeffries, L. C. & J. M.
WILMOT—Kanaga & Son
WOOSTER—McClure & Co. (Slate & Metal)
Maurer, John W.
WYOMING—Kuhlman, Jno. B.
XENIA—Baldner & Fletcher
Henrie, C. C. (Slate & Metal)
Rayburn, Jas.
Scott, Frank B.
YOUNGSTOWN—Alexander, J., 2035 Federal
Bell, R. A. & Co. (Slate & Metal), 631 W
Federal
Blunt, Geo. (Slate & Metal), 205 Mahoning
Broadbent, W. J. av
Carey, Philip Mfg. Co.
Dalzell Bros. Co. (Slate), 21 Holmes
Fioravante, Corradino
Goodge, R. E. (Slate & Metal), 21 S Wal-
Kaiser, William nut
Laughlin Bros. (Slate & Metal), 580 Mahon-
Lawlor, Thos. J., 265 W Federal ing
Ludt, Jno. P. (Slate & Metal), 637 Wilson av
Parry, ... J. (Slate & Metal), 738 Mahoning
Perkins Hardware & Roofing Co.
Pettit, Myron (Slate & Metal), 248 E Board-
Squire, Jno. R. (Slate & Metal) man
ZANESVILLE—Berkshire, T. C. & Son, 616
Clements, Wm. W. Main
Hanlon & Saup, 142 N 7th
Harlan, John C.
Ludy, J. W.
McCormack, G. W. (Slate & Metal)
Maher & Co., 701 Elm
Marcellus, C. J. & Son, 211 Main
Nowell, W. B., 13 W Main
Schreiber Bros. & Flaharida
Schmidt, David (General)
Seright & Webster
Snyder Roofing Co. (Slate, Metal & Asphalt)

## OKLAHOMA.

ADA—Daggs, C. E.
Meigs, E. P.
ALTUS—Dale & Mondy
Lewis, M. L.
Mentzell & Crutcher
ANADARKO—Steizner, J. C. & Son
ARDMORE—Berryhill, Frank
Weeks & Spreckelmeyer
CHICKASHA—Bowers, W. J.
CLAREMORE—Hammett, J. W.
Swallow, Fred
DAVIS—Page, J. C.
DURANT—Pearce Bros.
EL RENO—Chapman, Wm.
Dawson, G. W.
ENID—Lamson, B. C.
EUFAULA—Edson, W. & Co.
GUTHRIE—McDonald M.
Miller, H. E.
HUGO—Hugo Cornice Works
McALISTER—Kinney, P. W.
McAlester, J. B. Hardware Co.
MARIETTA—Kisselburg, H. T.
MUSKOGEE—Bellis, A. B.
Hill & Kramp
Morgan, W. E. Roofing Co. (Gravel, etc.)
OKLAHOMA—Gray, J. T. Roofing Co.
Herrman, F. W.
King's Sheet Metal Works
Swanda Bros.
Wallace, J. J. (General)
PAUL'S VALLEY—Braden, R. H.
SAPULPA—Cook, C. C.
Van Tine, C. C.
Wooldridge, B. A.

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SHAWNEE—Estes, W. M.
Lester, S. H.
VINITO—Dalquest, L. D.
WAGONER—Walters Bros.
WOODWARD—Boyle, E. Hdw. Co.

## OREGON.

ALBANY—Ludwig, Martin
Stewart & Sox Hdw. Co.
ASHLAND—Provost Bros.
ASTORIA—Montgomery, E. T.
Sculley, W. J.
Smith, Willard N
Willett, S. H.
BAKER CITY—Basche-Sage Hardware Co.
Caldwell, Wm.
Wood Bros.
BANDON—McNair, A.
COQUILLE—Lamb, J. A. & Co.
CORVALLIS—Huston, R. H.
Smith, J. R. & Co.
EUGENE—Aya & Heitzman
Chambers Hardware Co.
Griffin Hardware Co.
Kreofsky, Wm. & Son
GRANTS PASS—Coron, Booth Hardware Co.
HEPPNER—Gilliam & Bisbee
MARSHFIELD—Milner, J. H.
MEDFORD—Smith, J. A.
MYRTLE POINT—Huling, Lundy & Son
OREGON CITY—Gadke, F. C.
Pope & Co.
PENDLETON—Beck, Benj. F.
Clarke, W. J. & Co.
Taylor Hardware Co.
PORTLAND—Abbett, W. S., 449 Union av N
Austin, J. L., 387 E Adler
Bacon & Miller, 140 Killingworth av
Bailey, Bernard, 372 E Washington
Bartosch, John, 555 Alberta
Bayer, J. C. (Slate & Metal), 204 Market
Blosser, R. L., 571 Tenino av
Borchart & Wilson, 555 Milwaukee
Burkhart & Weaverson, 305 4th
Burness & Martin, 129 16th
Columbia Hardware Co., Morrison & 2d
Crynes, F. S., 722 Division
Curry, A. W., 116 Grand av
Danielson Bros., 226 Crosby
Ehlers, Albert, 223 E 80th N
Ferrell, W. J., 235 Taylor
Gabriel & Groeger, 181 E Water
Grohs, Wm., 721 E 13th
Hirschberger, H. (Metal & Gravel), 247 Ankeny
Hoecker & Path, 109 N 3d
Kadderly, John J., 141 st
Kelly Bros., 202 E 34th
Kenton Sheet Metal Works
Kribs & McDonald, 307 Madison
L. & L. Roofing Co., 229 2d
Losli, Jacob, 212 Jefferson
McElroy, J. A.
McMahon & Sharkey, 45 N 6th
Meier, J. A., 286 Russell
Moore-Meagher Co., 42 1st
Munnell, E. J., 40 1st
Nichols, C. H., 353 Ankeny
Northwest Cornice & Roofing Co., 247 N 17th
Nott-Atwater Co., 40 1st
O'Connor, M. H., 5 N 3d
Oregon Sheet Metal Works, 429 E Madison
Petsch, C. F., 643 Umatilla av
Portsmouth Tin Shop, 784 Dawson
Price, E. J. & Co., 220 Grand av
Rochlin Bros., 185 Madison
Roland, Fred B., 830 Union av N
Ruedy Bros., 268 Front
Senn, Theodore, 652 1st
Shupe, J. E., 625 Mississippi
Temple & Piper
Thornson, Theodore C., 419 Hawthorne av
Tilton Bros., 105 N 5th
Wentz & Co., 847 Missouri av
Western Sheet Metal Works
Wheeler, F. E., 323½ 20th N
Wynkoop, L. W., 647 1st
SALEM—Barr, T. M. (Metal & Slate)
Steiner & Berger
THE DALLES—Maier & Schanno
Walther-Williams Hardware Co.

## PENNSYLVANIA.

ADAMSTOWN—Schnader, Levi C.
AKRON—Kemper, Geo. A.
ALLEGHENY—(See Pittsburg)
ALLENTOWN—Allentown Cornice Wks. (Slate & Metal)
Bernhard's, Z. Sons
Best, J. A. & Co.
Ettinger, C. H. & Co.
Hersh & Bro., 829 Hamilton
Herzog, Charles
Herzog, F. (Slate & Tile)
Kline, Alfred L.
Merkel, Wm. J. (Slag, etc.)
Miller, Jacob, 535 Linden
Roth, Daniel J., 212 Hamilton
Vogel, T. P., 616 N 5th
Wasser, T. R.
Wickel, August
Wieder, Harry & Co. (Slag, etc.)
ALTOONA—Baumgardner, S. M.
Crawford, Chester B.
Degenhart, W. J.
England, S. B., 1412 6th av
Garahan, P. F. & Sons, 1104 16th
Holland, Maurice J.
Holliday, J. C.
Hughes, J. C. & Son, 906 8th av
Johnson, A. A., 1218 8th av
Kimmel, Philip, Jr.
Kimmel, W. J.
Klesius, Geo. A., 609 12th
Pfannenschmidt, Herman (Slate), 2601 9th av
Sabathne, Henry
Union Roofing Co. (Tile, Slate & Gravel), cor 11th av & 13th
Weisgarver, R. S.
Wilkinson, Lee A.
Zumsteg, Frank
ANNVILLE—Keller, S. F.
Smith, W. H. H. & Bro.
APOLLO—Baxter, E. L.
ARDMORE—Stanton, C. L.
Whelan, M. A.
ASHLAND—Buck, Peter E. & Sons
Lauer, Jno. J.
McConnell & Bro.
Stief, Herman J.
ATHENS—Finch Bros.
Roberts, G. L. Co.
AVALON—Brice, Jos. H.
Springer, O. P.
AVOCA—Druffner, Christopher
Dunn, T. J.
Webber, George V.
AVONDALE—Thomas, Joshua
BAINBRIDGE—Hipple, H.
BALLY—Eddinger, Henry
BANGOR—Dutt Bros.
Houck, W. O.
BATH—Beer, Jacob F.
BEAVER—Frye, Jno. W.
Lawrence, Jos. W. (Slate & Metal)
Todd, E. G. & Co.
BEAVER FALLS—Allen, Thomas R.
Barker Bros.
Brierly, F. F. & Sons
Davidson, W. J. (Slate & Metal)
Steele, F. M. & Bro.
Zeller, Henry W. (Slate & Tile)
BEAVERTOWN—Roush, Frank I.
BECHTELSVILLE—Kehs, I. B.
BEDFORD—Shires, H. P.
BELLEFONTE—Miller, W. H.
Twitmire, W. T.
BELLE VERNON—Jack, T. B. & Sons
BELLEVILLE—Utts, Wilson S.
BELLEVUE—Knell, Louis
BENTON—Keller, G.
Keller & Conner
BERWICK—George, O. W.
Laubach, H. C.
BETHLEHEM—Bishop, Augustus S.
Campbell, Abraham A.
Heiney, C. W.
Krause, Henry A.
Kromer, Amandus A.
Lehigh Valley Cornice Works
Luchenbach, F. E. & Bro.
Schlosser, Jacob F., West B
Young & Weaver
BIRDSBORO—De Witt, August
Prutzman, J. M.
Sands, C. C.
BLAIRSVILLE—Stiffey, S. D. & Sons
BLANDON—Madeira, Samuel H.
BLOOMSBURG—Hartman & Mendenhall
Moyer, G. W.
Whary, L. E.
BOYERTOWN—Yahn, Jacob B.
BRADDOCK—Braddock Hdw. & Supply Co.
Edmunds, Richard W.
Loew, J. A. (Slate & Tin), 546 Braddock av
Schilling, Conrad, Jr. (Slate & Tin), 644
Shirer, J. W. (Slate & Metal) Corey av
Sickman, John A.
BRADFORD—Bodine, Geo. A. & Co.
Fox, Jas. B.
Griffith, T. M. & Son
Haggerty, Marceus A.
Tschachtli, Louis
BRIDGEPORT—Kalb, J. F.
BRISTOL—Bevan, Lewis J.
Hendricks & Mariner
BROOKVILLE—Blake, E. E. (Slate)
Henderson, Robert L.
Sentner, J. H.
BRYN MAWR—Bryn Mawr Hardware Co.
Morris, Jos. A.
BURGETTSTOWN—Conrad, Henry
BUTLER—Barnard, C. H.
Biehl, Henry
Campbell, J. G. & W.
Gill, Mrs. Jessie
Hauck, F. J.
Stock, C.
Wilson, Wm. B.
CAMPBELLTOWN—Whitman, A. M.
CANONSBURG—Elliott, W. J.
Van Eman, J. J. & Son (Slate & Gravel)
CANTON—Clayton, W. H. (Agt.)
CARBONDALE—Bell & Brown
Van Bergen & Co.
Von Beck Bros.
CARLISLE—Bixler, J. P. & Sons
Fridley, Jacob
Morris & Riley
Rinesmith, Geo. W. & Sons
CARNEGIE—Fenfestey, T. M. Co.
Rome, Geo. & Co.
Schreiber, Elmer E.
Schulze, Jno. F. & Son
Smith, Jerry (Slate)
CATASAUQUA—Schneider, Chas.
Schneller, Charles W.
Schneller, John P.
CENTER SQUARE—Drake, S. B.
CHAMBERSBURG—Eyster & Snider
Hanks, Jared B.
Lay, Wilson F.
Miller, C. P. & Co.
Miller, F. A.
Stepler, George H.
CHARLEROI—Bowers, John H.
Freeman, Fred
Laird, J. F.
Ranson, F. H.
CHESTER—Allen, C. S. & Son (Slate)
Armitage, Geo. L. (Slate, Metal & Gravel)
Beaumont, J. C.
Beaumont, Samuel
Brackenridge, Jas.
Deveney, Wm. L. (Slate & Gravel)
Eisenbise & Bro. (Slate, Metal & Gravel)
Ferguson, John J.
Howarth's, Robt. Sons (Slate, Metal & Gravel)
Ives, E. T.
Taylor, Jno. W.
Ward, Hugh H. (Slate, Gravel & Metal)
CHRISTIANA—Koons, Geo. A.
CLAYSVILLE—Plants & Blaney
CLEARFIELD—Johnson, F. & Bro.
Kettelbarger Bros.
COATESVILLE—Glauner, Jno. R.
Pleasant, John
Sallis, Wm. (Slate & Tile)
Speakman, J. E.
Young, W. W.
COLLEGEVILLE—Hunsicker, A. K.
Wenrick, Geo. A.
COLUMBIA—Conley, Albert B.
Haug, Jacob
Paules, J. W. (Slate)
Strickler, Calvin R.
White, Thos. S.
Wilson, Hiram Hardware Co.
CONNELSVILLE—Fitzmier & Co.
Shumaker, Chas. E. & Co.
Skinner, J. B.
Welker Bros.
CONSHOHOCKEN—Campbell, Harry O.
Messinger's, H. C. Sons
Mullen Bros.
COPLAY—Sieger, Elias
CORAOPOLIS—Engle, J. C. (Slate & Metal)
Stoops, T. D. & Co.
CORRY—Barlow Hdw. Co.
Guignon, E. E.
Guignon, H. A.
Miller & Stewart
Rogers, Guy E.
DANIELSVILLE—Hower, J. K.
DANVILLE—Doster, J. H.
Foster Bros.
Hendricks, Geo. W.
Hixon, John
DARBY—Appleton, A. N.
DELTA—Baker & Bro.
DONORA—Hodge, B. H. (Slate & Metal)
DOYLESTOWN—Donnolly, John J.
Histand, Harry H. (Slate)
DUBOIS—Heilbrun, Henry
Hibner-Hoover Hardware Co. (Slate, Metal & Gravel)
Prothero, Bailey & Goodwin

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DUNMORE—Hughes, T. J.
Priem, Herman
Wheatcroft, Wm.
DUQUESNE—Braun, Adolph
Kessler, Louis
Thomas, G. E.
DUSHORE—Cole, Samuel
Cunningham, Jas.
EAST BRADY—Blatt, V.
EAST MAUCH CHUNK—Genshart, Geo. M.
EASTON—Arndt, Wm.
Bennett, H. H.
Grogan, James
Hahn, Richard S.
Kinsey, H. P.
Linden & Son
Meeker, L. R., 466 Northampton
Miller, E. H. (Metal, etc.)
Miller, H. R., 623 Northampton
Osterstock, Jos. S., 212 Northampton
Schooley, H. C., 1126 Northampton
Slough, Joseph
Stotz Bros. (Slate & Metal)
Wilson Stove & Mfg. Co.
Young, Geo. W.
EAST STROUDSBURG—Barnhoeft, George J.
Lessig, Joseph H.
ELDRED—Young, W. A.
ELIZABETH—Wylie Bros.
ELIZABETHVILLE—Hoke, Ira. M.
Ziegler, Lewis H.
ELLWOOD CITY—Lenigan, J. W.
Phoenix Roofing Mfg. Co. (Comp.)
ELVERSON—Fox, Henry S.
EMAUS—Wieder, H. A.
EMLENTON—Shoemaker Bros.
Weller, J. A. & Sons
ERIE—Auer & Fullerton
Baker & Knox
Balzer, John
Braggins, J. H.
Einhellig, J. A.
Erie Roofing Co. (Felt, Slate, Asbestos, etc.)
Feidler, Wm. B.
Freindel, Jno. J.
Hartline, Jno. & Sons
Holcomb, J. J. (Asbestos, Comp., Felt, etc.)
Krack, Gust. & Son (Slate, Tile, etc.)
Kretz, Jacob, 527 French
McCreary Roofing Co. (Asbestos, Felt, Gravel & Slate)
Miller, John, 617 W 8th
Minzenberger, Jacob
Murphy Bros. (Slate & Metal), 22 N Park
National Roofing Co. (Tin)
Patterson & Sterling (Slate & Metal), 12th & French
Rastatter, H. R.
Rock Asbestos Roofing Co. (Asbestos, Felt Gravel, etc.), 1227 State
Ruland, J. S.
Sweigard, U. D., 424 W 19th
Thayer, O. C. & Son (Felt)
Trimble, W. S.
Uhlman, Chas. G.
Woeckner, H. A.
ETNA—Hartman, Charles A. Son & Co.
EVANS CITY—Dunbar, B. W.
EVERETT—Gorsuch, Thomas V.
Herman, F. H. & Son
FLEETWOOD—Maderia, Levi
Schlegel, Wilson K.
FRACKVILLE—Haupt Bros.
FRANKLIN—Clarke, Thos. R.
Elliott, Thos. S.
Greer, C. H.
Harding, George
Lovell, S. A.
Tiffany & Ramsdale
FREDERICK—Knorr, Jno.
FREDERICKSBURG—Kirst, Geo. W. & Son
FREEDOM—Overton, R. J.
FREELAND—Marchetti, Henry
O'Boyle, M. M.
FREEMANSBURG—Cole, O. V.
FREEPORT—Dougherty, Wilson
Wallace, E. H.
GALLITZIN—Brannen & Murray
GETTYSBURG—Gottwald, George G.
Smith, A. J.
Weaver, Geo. J.
Winebrenner, Thomas J.
GIRARDVILLE—Horsewood, William
GLEN ROCK—Kraft, Albert W.
Lau, L. B.
GRATER FORD—Smith, J. L.
GREENSBURG—Howell, Geo. W.
GREENVILLE—Bennett, E. F.
Dickey Hardware Co.
GROVE CITY—Filer, W. H. (Slate & Metal)
Rhodes & Redmond
HALLSTEAD—Rogers, J. B.
HAMBURG—Egolf, B. F.
Rau Bros.
Seidel, R. F.
HANOVER—Bargelt, Lewis I.
Bargelt, Paul E.
Bixler, D. D. & Son
Rohrbaugh, John F.
Wentz, B. M.
HARLEYSVILLE—Wolford, H. D.
HARRISBURG—Cleckner & Burke, 1226 N 3d
Ebert, William, 418 Reily
Ensminger, S. D.
Fager, Geo. C. & Sons
Fisher Bros., 1001 Capitol
Mull, G. W.
Nissley, H. K., 14 N 3d
Parthemore, L., 37 N 13th
Payton, Michael
Rebuck, J. M., 1849 Derry
Rein, H. A.
Towsen, T. F. (Slate), 509 Walnut
Snook, W. H., 334 Kelker
Weast, George B.
Weiss, E. W.
Zeiders, Louis S.
Zeiders, W. W.
Zeigler & Hayes
HARRISON VALLEY—Hubbard, C. G.
HATBORO—Butterworth & Fretz
HAWLEY—Lieber, August K.
Mayer, Albert
HAZLETON—Barber, J. F & Co. (Slate & Metal)
Cohen, Jacob
Koehler, George G. & Son
Murphy, Daniel S.
Schmauch, N. J., 46 E Mine
Wagner, E. E. & Co.
HELLERTOWN—Fehr, F. L.
HOLLIDAYSBURG—Brenner, William
Frank, G. J.
Reed, J. H.
Schilling, S. C. (Slate)
HOMESTEAD—Nebo Bros. (Slate & Metal)
Orr Hardware Co.
Roberts, Jno. H.
HONESDALE—Spettigue, O. M.
Watts, Graham
HONEYBROOK—Anderson, A. M.
Andrews, N. H.
HUMMELSTOWN—Nye & Conrad
Walaver, Henry
HUNTINGDON—Fink, B. F.
Hassenflue, William
Vaughan, F. C.
Westbrook, Wm. R.
INDIANA—Alter, Charles A. (Slate)
Taylor, Alexander T. & Son
Welteroth, Jos.
INTERCOURSE—Rodgers, A. M.
IRWIN—Bowman, John A.
Luther, J. M.
Miller, S. B.
Shotts, E. P.
Smith, E. W.
JAMESTOWN—Robb, S. L.
JEANNETTE—Dreugwitz, O. A.
Koerbel Bros.
McCormick, W. L.
JENKINTOWN—Fleck, W. C. & Bro.
JERMYN—Eagen, M. J.
JOHNSTOWN—Alter, F. E.
Davis, R. E.
Doyle, F. J.
Fenn, Wm. J.
Friedhoff & Mahaffey
Garretson, N. S.
Grafe, Jno. A. Slate Roofing Co.
Horner, Emmett
Joy Bros., 234 Bedford
Milligan, James J.
Statler, W. H.
KANE—Crowell, Theodore
KENNETT SQUARE—Martin, Arthur B.
KINGSTON—Gallagher, P. L.
Johnson, Henry
KITTANNING—Croll, Lee S.
Graham, A. W.
Luker, Henry G.
McCullough, James, Jr.
KULPSVILLE—Kline, H. B.
KUTZTOWN—Smith, Joshua
LANCASTER—Ackerman, Jacob P.
Arnold, John L. (Slate, Metal & Slag)
Dare, John H.
Everts & Overdeer, 1 Howard av
Fellman Bros.
Keller, Jno. W.
Kiehl, George L.
Long, Joseph, 402 E Orange
May, Cornelius F.
Miller, David H.
Peach Bottom Roofing Slate Co. (Slate)
Reese, Otto
Reeser, Jos. A.
Pohl, John E.
Schaum, John G.
Seuer, G. & Sons (Slate), 309 N Prince
Sheet Metal & Supply Co. (Metal & Comp.)
Slaugh, William
Swartz, Harry B.
LANDISVILLE—Sanders, D. D.
LANSDALE—Davis, Lewis M.
Weingarther, C. S.
LANSDOWNE—McCullough, C.
Worrell, Wm. H.
LANSFORD—Davis, T. L.
Drumheller, N. & G. F.
Helps Bros.
LATROBE—Carouthers, J. D.
Crawford, Chas.
Gardner, M.
Gregory Bros.
Houck, E. C. & Co.
Lohr, Jacob H.
LEBANON—Blyer, Frank P.
Bowers, A. H. (Slate)
Bressler, C. O. & Co.
Coble, L. M. & Co.
Gamber, Wm. P.
Grumbein, J. E. Co.
High, D. F. (W Lebanan)
Rise, William S.
Seltzer, J. H.
Uhler & Kline
LEECHBURG—Leechburg Hardware Co.
McGeary, J. C.
Small & Hill
LEHIGHTON—Esch, George A.
Jones, James T.
LEWISBURG—Wensel, W. N.
Zentmeyer, Frank
LEWISTOWN—Fichthorn, Joseph A.
Spangler Bros.
Zerbe, H. R.
LINFIELD—Daub, H. L.
LIVERPOOL—Coffman, W.
LOCK HAVEN—Baker & Co.
Bittner, G. W.
Fickenscher, Frederick (Est. of)
Fredericks, J. H. & Bro.
Geary, M. P.
McClosky, Bros.
LUZERNE—Snyder, John T.
McKEESPORT—Bostwick, Jacob (Slate & Metal), Blackberry av
Exner, W. H.
Hartman Hardware Co.
Kemp, Jas. F. & Bro.
McKeesport Plbg. & Roofing Co.
Matthews, Lewis K.
Miller & Matthews
Reed, F. M. & Co.
McKEES ROCKS—Smith, Hy. J.
MACUNGIE—Desh, Milton
MAHAFFEY—Wrigley Co. (Inc.)
MAHONEY—Heinze, George C.
Heiser, H. J. & Co.
Larkin Bros.
Leahy, Thomas F.
Morgan, William
Stokes, Geo. S.
MALVERN—Garret, R.
Morgan, W. & T.
MANHEIM—Ream, Frank W.
Witmeyer, Henry S.
MARIETTA—Strump & Mueller
Wiseman, A.
MARS—Zeigler, A.
MARSHALLTON—McFarland, H. J.
MAUCH CHUNK—Bartholomew, E. D.
Gabert, H. C.
Schrank, William M.
MEADVILLE—Berg, Fred J.
Guenther, F. M.
Kress, August
Welt, Grant
MECHANICSBURG—Bobb, G. W.
Cromleigh, D. A.
Hauck Bros.
MEDIA—Major, Geo.
MERCER—Downs, James
Weller, F. R.
MEYERSDALE—Baer & Co.
Bolden, Chas. A.
Cover, P. J. & Son
MIDDLETOWN—Keever, W. F.
Lenhart, H. A.
Selser, S. S.
MILFORD—Klein, T. R. J. & Son
MILTON—Le Fevre, Harry S.
Leh, Dennis (Slate)
MINERSVILLE—Martz, J. F.
Witman, August
MONACA—Heidrick & Taylor
MONESSEN—Bearer, H. J. & Co.

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MONONGAHELA—Downer Bros. (Slate)
Williams, Larimer
MONROETON—Smalley, Geo. H.
MONT CLARE—Logan, A. L.
MOORE—Gould, M. D.
MORGANTOWN—Foreman, Lott B.
MORTON—Manning Bros.
MORWOOD—Groff, H. W.
MOUNT CARMEL—Bergstresser, Sam'l E. & Co.
Phillips, Wm. H.
Wardrop, John
Williams, H. H.
MOUNT JOY—Buohl, John H.
Webb, Jas. E.
MOUNT PLEASANT—Metz, David
Patterson, G. W.
Smith, Wm. F.
MYERSTOWN—Drybred, I.
Smith, T. H.
NANTICOKE—Hill & Evans
Lecher, Chas. H.
NATRONA—Hookey, N.
NAZARETH—Bardill, John F.
Fulmer, Joseph
Messinger, Frank
Venter, Wm. G.
NEW BETHLEHEM—Anderson Hardware Co.
Cribbs & Fox
Martin, J. E.
NEW BRIGHTON—Bestwick, G. A.
Funkauser, S. H. & Co. (Slate & Metal)
McDaniel, R. B. Co. (Slate)
Reehl, P. H. (Slate & Metal)
Young, John W.
NEW CASTLE—Carr, J. C.
Dickson & Co.
Dunlap & Sons
Gaston, Lawrence P.
Hannon Joseph & Bros. (Slate & Metal)
Heilman, William (Slate & Metal)
McBride Bros. (Slate & Metal)
McClelland, A.
Meyer, Geo. F.
Perry, Geo. A. & Co.
Pisor, M. C.
Welch Hardware Co.
Wilson, Chas. F.
NEW CUMBERLAND—Kister, Harry E.
Lenhart, De Lancy Y.
Shuler Bros.
NEW HOLLAND—Davis, I. G. & Son
NEW KENSIGTON—Masters & Crooks
Miller, Harris
Pflough, W. J.
Seybold, S. R.
Temme, W. H.
NEWPORT—Burd, S. W.
NEWTOWN—Lundy, J. Wilmer
Smith, W. A.
NICHOLSON—MacConnell & Lord
Stephens, Bert D.
NORRISTOWN—Boyer, J. Frank Plumbing & Heating Co.
Cressman, J. T.
Johnson, W. Fi & Co.
Keisen, Oliver
Neiman & Frey
Quillman, Benjamin (Slate & Metal)
NORTH EAST—Philips, L. J. (Slate)
Selkregg Hardware Co.
NORTHUMBERLAND—McAlister, Clarence
Yeager, Geo. W.
NORTH WALES—Leister, J. H.
Meyers, Wm. H.
Shearer, Abel K.
OGONTZ—Horner, Maurice P.
OIL CITY—Booker Sheet Metal Works
Carson, J. M.
Kitchell, J. S.
Parks, F. G.
Snyder Bros. (Slate)
OLYPHANT—Mackey, M.
ORWIGSBURG—Long, James H.
OXFORD—Burling, Wm.
Ivison, J. M.
PARADISE—Le Fevre, Nat'l J. & Son
PARKER FORD—Mull, Mahlon O.
PARKERSBURG—Cromleign, S.
White, Peter D.
PARKERS LANDING—Dunlap, E. F.
PARSONS—Trethaway, Thos.
Trethaway Bros.
PEN ARGYL—Bieler, C. & Son
Correll, R. S.
PENBROOK—Kohr, W. H.
Wagner, Reuben N.
PENNSBURG—Diehl, Wm. B.
Steckel, V. H.
PERRYSVILLE—Winner, J.
PHILADELPHIA—Abrams, Harry, 851 N 10th
Abronski Bros., 1615 Stiles
Acton, H. C., 738 S 20th
Allard, Frederick J., 16 Harvey, Gtn.
Allen, Henry S. & Son (Metal), 603 Venango
Altman, Alex., 948 N 7th
Altman, Louis, 932 N 7th
Amberg, F. Co., 1332 Ohone
American Metal Cornice Works, 1124 Ontario
American Roofing Co., 1535 Ridge av
Apker's, Henry Sons, 1514 E Passyunk
Arenberg & Clemence, 924 Moyank av
Arkin, Sam'l (Metal), 1127 Bainbridge
Armstrong, Charles W. (Comp., Gravel, Tin, Slag & Slate), 46th & Lancaster av
Arnapolsky, Louis, 1506 S 7th
Arnd, Charles A., 3527 Haverford av
Atkin, Wm. H. L. (Metal), 2122 N 15th
Avrick, Isaac (Metal), 625 S 3d
Bader, Chas., 73 Huntington
Baile, Robert Co., 815 S 19th
Bailey, Edw. J., 511 Richmond
Baker, Henry H., 4121 Market
Baker, Warren, 1600 N Front
Baral Hardware & Heating Co., 1024 Columbia av
Barrett, John C. (Comp., Gravel & Slate), 16th, c Ellsworth
Bartholomew, R. & Son, 445 Norris
Basford, Erickson & Co., 26 Armat
Basile, John, 744 S Front
Bass, Joseph, 208 N 4th
Bauer, Christian H., 1233 Poplar
Bavington, Andrew D., 2115 Oxford
Beaumont, Jas., 49 W Rittenhouse, Gtn.
Bechtel, Wm. H. (Comp. Gravel & Slate), 1439 Newkirk
Behre, Ferdinand L., 3210 York
Bellerjean, Dan'l, 2201 Sharswood
Benkler, George, 1401 N Fawn
Benkler, Philip (Comp., Gravel & Slate), 1927 N 5th
Benner, Geo. W., 2508 Germantown av
Berco, Morris, 4344 Crescon Myk.
Berk, George (Metal), 406 Diamond
Berman, Morris, 1024 S 3rd
Berman, Noah, 607 Bainbridge
Berman, Samuel, 805 N 13th
Berner, William, 2700 N 5th
Besofsky, Samuel, 1634 S 2nd
Beswick, Richard, 330 S 4th
Beyer, Irwin H., 1488 N 52nd
Bischoff, Jacob G., 2958 Frankford av
Black, A. (Comp.) Gravel & Slate), 1716
Black, Edwin C., 1720 Fkd av South
Black, Morris, 619 Pine
Blaker, I. & Son, 722 S 3d
Blackman, Sam'l, 213 N 2d
Blefgen, Henry J., 868 N 4th
Blythe, John H., Jr., Cottman cor 2nd St Pk Fox Chase
Bohem, A. & G., 15th & Federal
Bonner, A. J., 1633 N 2d
Bortel, E. S. Co. (Slag, Slate, Metal & Tile), 1801 Market
Branin, Sam'l (Metal), 129 Vine
Brenner, Ed., 1650 Gtn. av
Brenner, Chas., 1719 E Passyunk av
Brinkmann Bros. (Gravel, etc.) 2617 Frankford av
Broadbent, Chas. W., 6035 Lombard
Bromwell, Chas. E., 2140 S Simpson
Brown, David P., 2302 N 29th
Brown, Geo. (Tin), 617 Cherry
Brown, H. J., 905 Fairmount av
Brown, Joseph E. Co., 1003 Race
Brown, Samuel, 1203 S 7th
Brown & Welsh, 719 Sansom
Buchanan, Ed., 2518 Dakota
Buchert, Sam'l W., 1602 Venango
Buchy, Henry A., 7320 Woodland av
Buck, Eugene C. (Comp. Gravel & Slate), 1726 Cayuga
Buckman, Geo. W., 1840 Poplar
Buckman, Stephen A., 1905 Ridge av
Buehler, John L., 2725 Poplar
Bulley, Jno., 1866 N Taney
Buzby & Hellerman, 5324 2d st pk, Olney
Byrd, John (Copper, Tin, Slate & Tile), 1433 Catharine
Calesnik, Sam'l (Comp. Gravel & Slate), 724 McKean
Call & English, 339 N Lawrence
Calverly, Geo. H., 1319 Parrish
Caplan, Israel, 802 S 6th
Carey, Philip Co. (Felt), 13th & Hamilton
Carlin, Philip, 1743 Venango
Carney, Jno. J., 1123 Christian
Carr, Jno. E., & Son, 4118 Lancaster av
Carre, D'Angell H. (Est. of), 143 N 13th
Carrigan, Peter, & Son, 114 N 5th
Carroll, Wm. D., 2316 N 27th
Cassidy, James, 801 Noble
Cattie Bros. Co., 1708 N Howard
Cave, John C., 6149 Haverford
Century Roofing Co. (Metal), 15th & Allegheny av
Chambers, John, 706 S 19th
Charney & Sanders, 932 Moyamensing av
Chew, Wm. A., 306 Spruce
Clad, V. & Sons (Inc.), 12th nr Locust
Clampman, Chas., 919 S 6th

CLASON SNOW GUARD
428 Kinsley av, Providence, R. I. (See adv. index, end of book)

Clausius, Frank, 1030 Spring Garden
Clayton's, F. B., Sons, 1222 Race
Coale Bros. (Metal), 4134 Orchard, Fkd
Coburn, Geo. A., 7216 Gtn. av, Gtn.
Coburn, George R., 7314 Germantown av
Coffey, Richard H. (Comp., Gravel & Slate), 1914 N 5th
Cohen, Bernard, 336 S 3rd
Cohen, Joseph, 736 S 6th
Colbert, F. M. (Comp., Gravel & Slate), 5208 Baltimore av
Collier, Charles A., & Son (Tin), 2052 Fairmont av
Columbia Heating & Roofing Co., 6212
Connor, Francis E., 2838 D. Gray's av
Cooney, Thos., 1725 S 10th
Copes, Edwin L., 214 Washington av
Corbaman, Max, 415 Catharine
orbin, James W., N 7th nr Oak la
Cornell, Hugh T. (Slag & Gravel), 1845 N 6th
Cortright Metal Roofing Co. (Inc.), 50
Covelli, Giuseppe, 928 S 10th N 23d
Cranston, Alfred, 2527 N 2nd
Curran, Thomas J., 4524 Baltimore av
Daub, Chas. E., 1322 Fkd av
Davenport, ThoCs., 2861 Ken av
Davis, Bernard (Metal), 1411 N 10th
Davis, C. H., Nedro, c York rd, Btown
Davis, John (Metal), 2824 Wharton
Dawson, James & Son, 310 Erie av
Dawson, John P., 3625 Longshore Tac
Decker, Jno., & Son, 2704 Girard av
Delaney, Martin J., 2023 Rowan
Delaney, Roger H., 5856 Magnolia, Gtn.
Dickson, Jno., 105 E Chelten av Gtn
Didow, Abraham, 425 Wood
Diehl, Wm. W., 909 N American
Dittrich, Ferdinand (Metal), 2801 Oxford
Donnell, Joseph, 630 S 19th
Donnelly, James P., 2001 E Elkhart
Donnelly, John P., 938 W Huntington
Donovan, Emmet, 614 S 52nd
Dool, Samuel, 3410 Richmond
Dragan, Philip, 2046 South
Drucker, Isaac, 1419 S 7th
Duffey, Thos. C., 302 N Frazier
Dux, John F. (Comp., Gravel & Slate), 2239 N 2d
Earle, Wm. (Estate of), 2132 Callowhill
Eckhart, John S. (Metal), 440 Winona, Gtn
Eisenhower, Leon D., 2008 S Juniper
Elliott, Andrew G., 6845 Gtn. av
Ellis, G. D. & Sons Co., 309 N 3d
Endress, George, 700 N 3rd
Enterprise Cornice Works, 4714 Market
Epple, Peter, 1800 S 10th
Erhardt, Geo., 1100 Parrish
Esmond, Daniel, 1943 N 2d
Eswick, Richard, 330 S 4th
Evans, Othaniel B., 1635 N 26th
Everick, Enoch (Metal), 623 S 3rd
Eureka Roofing & Heating Works, 5221
Fairley, Alex, W., 1609 N 17th Markee
Fehrle, Thos. F., 2666 Coral
Filbert Paving & Construction Co. (Comp., Gravel & Slate), Pennsylvania bldg
Fine, S. D., 905 S 16th
Fischer, Frank C., 828 Spring Garden
Fliter, Isaac, 611 Lombard
Flounders, E. L., 1337 Poplar
Flynn, Patrick, 1745 Fernon
Foertsch, Geo. H., 271 Susquehanna av
Foley, Jos. F., 1132 Callowhill
Foster, Benjamin N. (Metal), 22nd cor Sedgley
Foster, Thos., 402 Richmond
Fow, Benj. & Sons, 210 N 2d
Fox, A. G., 1624 Passy'k av
Frearson & Hanlon, 315 E Haines, Gtn.
Freedberg & Stern, 1719 S 8th
Frey, Gottlieb, 1250 N 10th
Frick, John & Bros., 1664 N Allison
Funk, Albert (Metal), 1322 Victoria
Fuss, Gotlob W. (Metal), 5109 Tacony, Fkd
Fuss, John, 4807 Richmond
Garges, Benjamin F., 1943 Brunner
Gans, John H., 2908 Gtn av
Gara, McGinley & Co. (Comp., Metal, Slate, Tile, etc.), 23 S 17th
Garraty, James F., 4089 Lancaster av
Gassner, Chas. H., 1906 Dennie
Gassner, Thos., 4530 Greene, Gtn

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Gebhardt, Jacob, 515 W Mt Pleasant av
Geiger, Gustave, 4924 N Uber Mt A
Geissel, J. H., 2218 N 29th
Geist, Henry F. (Metal), 2226 N Reese
Geissler, Chas. F., 3211 N 17th
Genasco Roofing Co., 2242 Land Title bldg
Gerlach, Chas. H. (Metal), 1825 Tasker
Gilbride, Ed. J., 2000 N Howard
Gildenfenny, Chas. H., 7115 Woodland av

GILMAN SNOW GUARD
103 Merrimac, Boston, Mass. (See adv. index, end of book)

Giltman, Max, 246 Monroe
Girard Cornice & Roofing Co., 2318 Market
Gold, Benjamin, 1404 S 2nd
Goldberg, Harry, 237 N 5th
Goodleman, Harry, 706 S 3rd
Goodwin, Fred O. (Comp., Gravel & Slate), 554 N 53d
Goodwin, William, 3300 N 21st
Graber, Francis, 2306 N 3d
Graver, Harry C. (Comp., Gravel & Slate),
Green, Louis, 206 Monroe 5527 Race
Green, Jeremiah J., Edmund, nr Longshore,
Greenberg, Harry R., 1433 Parish Tac.
Greenberg, Morris (Metal), 437 Poplar
Gross, Wm. A., 2326 E Norris
Gross, Wm. E. (Comp., Gravel & Slate), 1224 Oxford
Grover, Thos. E., 1115 S 47th
Guenther, R., 1637 .. 13th
Haines, Geo. W., 1619 Catharine
Hammer, J. B., 6104 Germantown av
Hansell, Geo. H., 6102 Ridge av
Harbolsheimer, Chas., 926 N 28th
Harrington, Lucien H., 4541 Woodland av
Harris, Joseph S., 2027 E Dauphin
Hart, Christopher, 33 E Graver's la, C
Hart, James J., 2311 Callowhill Hill
Hartley, John H., 857 E Ontario
Hartman, Alvin F., 2939 N 22d
Haughton, John (Comp., Gravel & Slate), 938 N 13th
Haybeck, Philip, 1336 E Susquehanna
Heath, Albert S., 1027 Somerset
Heckley, Gustav A. (Metal), 2123 N Front
Heebner, Geo. K., 1231 Vine
Hendricks, Jacob, 2861 N 6th
Hendrickson, John C., 1508 Thompson
Henken, Isaac (Metal), 614 N 3rd
Henry, Michael J., 2619 N 19th
Herlock, Asa, 208 McKean
Hicks, S. & J., 5414 Vine
Hilley, Philip C., 305 N 2nd
Holden, H. C., 4830 Fkd. av
Hone, Francis, 321 Callowhill
Hopely's, Philip F. Sons, 2341 N 9th
Hopkins, Samuel K., 1226 N 11th
Hopkin, Wm., Jr., 22 E. Rittenhouse
Hopkin, Warren, 8023 Roanoke, C Hill
Hopkinson, Samuel, 1421 Frankford av
Horner, Abraham L., 121 N 6th
Howell, Joseph E., 5501 N Fairhill
Hughes, Geo. W., 313 Walnut
Humphreyville, Edwin (Metal), 823 S Hutchinson
Hurley, Isaac T., 3117 Spring Garden
Hurlock, Asa (Comp., Gravel & Slate),
Hurlock, John, 720 Wolf 136 Moore
Hushen, Michael, 1903 Pine
Husted, Dorsey G., 144 Brown
Ingram, W. H., 106 N 3d
Israel, Nathan, 1042 S 4th
Itzstein, Fredk J., 1217 N 4th
Jarman, Fred'k (Metal), 1515 Rowan
Jaspan, S., 226 S 2d
Jessen, George, 1423 E Passyunk av
Jester, Oliver (Est.), 5330 Gtn av
Johnson, T. S., 622 Cherry
Johnston, Robert, 520 S 23d
Jonas & Kane, 1305 N 5th
Joneck, Louis, 2054 N Warnock
Jones, Evan & Son, 5114 Lancaster av
Jones, Howard, 723 S 50th
Jones, Joseph, 2118 N 6th
Josopait, F. W. 534 Master
Kamen, Nathan, 708 S 5th
Kamp, Martin C., 519 S 13th
Kane, Harry, 402 Poplar
Kanter, Samuel, 436 Poplar
Kaplan, Abraham, 727 Callowhill
Kaucher, Fred'k M., 2739 N 5th
Kazakow. Abraham, 1229 N 2nd
Keever, John S., 5815 Haverford
Keller, Emil M., 5550 Haverford
Kelley, Joseph V., 4085 Lancaster av
Kemble, Geo. L., 2228 S 69th
Kenderton Roofing Co., 3409 Germantown av
Kennelly, Cornelius, 4914 N Warnock
Kensley, R. E. 2531 Brown
Keohane, John J., 1637 N 13th
Kershaw, Thos. & Son, 4528 Lancaster av
Keystone Roofing Co., 2217 N 12th
Kimes, Jessie B. & Co. (Slate, Gravel & Comp.), 1822 Filbert
Kirkman, Frank, 4909 Aspen
Kirst Bros., 314 S 4th
Klein, Ezra, 957 Nth
Knodel, Emil, 7 Girard av
Knowlan, James (Comp. Gravel & Slate), 45 N 13th
Kock, F. C. (Metal), 6106 Delancy
Kohler, Fred'k (Metal), 627 Cambria
Kolb, Michael, 3950 N 6th
Kolenski, John, 2388 Orthodox, Fkd.
Koons, Fred'k S. E., Huntingdon Pk nr 2nd St Pk
Kornbau, Herman, 717 Oxford
Krachman, Kalman, 938 S 3rd
Kramer, Jacob & Son, 128 Cumberland
Kramer, Morris, 996 S 3rd
Kramer, Samuel (Metal), 729 Dickinson
Krammer, Solomon, 637 Reed
Krause, Simon, 996 N 3rd
Kulzer, Michael, 3005 N Marshall
Kunkely, O. F., 2629 Columbia av
Kunz & Henrichs, 907 Locust
Lambert, Chas. W., 2226 E Cumberland
Laning, Jos. M., 3000 Cumberland
Lantman, J. & G., 3804 Cuthbert
Larrimore, Jas. T., 1800 N 12th
Lawler, John P., 1514 N 23rd
Layner, Fred'k J., 1945 Bristol
Lees, M. Ranfield, 432 Krams av, Myk
Levison, Bernard, 1432 S 5th
Lewis, Hubert W., 2009 E York
Lewis, Wm. T., 3622 Gtn. av
Lewis & Raschke, 3049 N 5th
Lieberman, Morris, 2042 Gtn av
Lienemann, Fred'k B., 1521 Mifflin
Limerick, J. Hunter, 1602 Kater
Lindgren, J. V. (Comp., Gravel & Slate), 1338 Jackson
Lipman, Benj. (Metal), 750 S 8th
Lipman, Sam'l (Metal), 714 S 8th
Lister, Alfred A. (Comp. Gravel & Slate), 5424 Vine
Locke, Hiram W., 1916 York
Lorenz, Chas., 5507 Girard av
Lowry & Lynch, 1508 Ridge av
Lupton's, David Sons Co., Allegheny av & Luttrell, Thos. J., 3830 Market Tulip
Lynch, Jno. F., 133 E. Chelten av, Gtn.
McAvoy, James, 1524 S Lambert
McBride Roofing Co., 636 S Bambrey
McBride, Peter J., 636 S Bambrey
McCann, John (Comp. Gravel & Slate), 56 W Rittenhouse
McCarthy, Wm., 2914 Fletcher
McCartney, T. J. & Co., 1731 Christian
McCarty, J. F. (Gravel, etc.), 3035 Ridge av
McDonald & Smith, 1821 Church, Fkd.
McElhiney. Jas., 3616 Lancaster av
McFARLAND, MEADE ROOFING Co. (Slate, Metal & Tile), Woodland av & 46th
McFassel, E. M., 4801 Woodland av
McGlone, Thos. (Metal), 606 Cypress
McGrath, Edw. (Slate, Gravel & Comp.), 1534 Fkd. av
McGrath, John, 3165 N 5th
McGrath, Thos. J. (Slate, Gravel, etc.), 1930 N 2d
McGuigan, Chas. F., 19th cor Huntingdon
McKenna, John (Comp., Gravel & Slate), 1827 E Somerset
McMillan, Frank, 5432 Tacony, Fkd.
McMurtrie, John S., 818 Green
McSorley, Frank J. (Comp., Gravel & Slate). 113 N 6th
McWade & Sharp, 50 N 23d
MacCrory, John, 1424 Catharine
MacNeille, Geo. A., 1829 Passyunk av
Mahood, Wm., 5515 Oxford
Malthaner. G., 511 S 9th
Mancienelli, Louis, 640 Carpenter
Manlove, Alfred P. C., 1900 S 7th
Manning, Ed. N., 1843 Cedar
Mansley, Chas. O., 2221 Bainbrirge
Margerum, George W., 2745 Kensington av
Marsch, Chas. A., 3936 Spring Garden
Marshall, John H., 2101 E Clearfield
Marx, Jos. A., 3114 Gaul
Mason, E. J. (Comp., Gravel & Slate), 263 S 12th
Mattheisz, J. H., 1625 S 17th
Mauer, Wm. F., 1214 Girard av
Maxwell, John D., 136 Tasker
Mearns, Job B., 267 S 10th
Messick, W. H. & Son, n w cor 6th & Midolla, N., 718 Fitzwater Reed
Miller, David R., 1506 S 13th
Mills, Thos. & Bro. (Inc.), 1301 N 8th
Mitchell, Samuel, 3117 Gtn. av
Mogulewsky, Simon, 1115 Passyunk av
Monaghan, Peter J., 10th & Arigona
Mooney, Edw., 2325 N 30th
Moore, Andrew J., 1124 Ontaria
Moore, J. E. & Son, 765 N 70th
Moore, Robt., 1711 McKean
Morrison, Andrew G., 1619 Bainbridge
Morrison, J. W., 8014 Fkd. av
Mueller, G. Arthur, 1908 Gtn av
Mulholland, J. & Bro. (Slag), Trenton av cor E Firth
Munro, H. F., 1740 Gtn. av
Murphy, Albert, 1933 Callowhill
Murray, Wm. M., 3516 Haverford
Musnoff, Harry, 441 E Girard av
Musselman, Oscar L., 1752 Hunting Park
Myeroff, Nathan, 209 Pine av
Nabin, A. (Metal), 503 S 6th
Nacey, John, 7105 Woodland av
Naegele, Jno. A. (Tin), 5622 Germantown av
Nagel, Fredk., 1528 N 4th
Nagel, Harry C., 1706 Venango
Nagler Bros., 2120 Gtn. av
Needelman, Louis, 237 N 7th
Neiman, Warren, 1808 Adams
Noll, S., 433 Fairmount av
Noone, Andrew J., 1635 Venango
Norris, Wm. N., 2070 E Clearfield
Nosanow, Jos., 526 S 4th
Obdyke, Benjamin P., 1219 Callowhill
Oberholtzer, G. P., 949 N 12th
O'Brien, Wm. (Metal), 2309 Aspen
Oldroyd, F., 2455 N 5th
O'Neill & Melling, 4223 Frankford av
Ott, John P., 1525 S 8th
Ottinger, Henry & Co., 2125 Market
Paessler, Otto F., 2853 N 5th
Palmer, Harry K., 4029 Lancaster av
Parisano, Raffaele, 1132 Carpenter
Parmer, Oscar E., 2467 N 18th
Pangborne, Jas. H., 2015 N 18th
Patofsky, Israel (Comp. Gravel & Slate), 1335 S 7th
Patterson, Jos., 2526 N Front
Patterson, Samuel, 2903 N Front
Patton, Thos, 1605 Lombard
Paul, John, 1723 S 5th
Penn Metal Ceiling & Roofing Co. (Ltd.), 23d, c Hamilton
Petrific Paving & Roofing Co., 3345 Market
Pfeiffer, Henry, 305 Diamond
Philadelphia Tinning & Galvanizing Works, 1708 N Howard
Phy, John B., 835 N Holly
Porter, C. B. & Co., 128 N 2d
Porter, Samuel C., 1902 N 8th
Preston, Harry J., 616 S. 21st
Preunthun, John F., & Co., 10 N Vogdes
Pulvermacher, Benj., 546 N 2d
Quaker City Paving Co., 506 N 12th
Quigley, Ed. L., 6719 Crowson Gtn
Quigley, Francis B., 624 S 11th
Quigley, J. J. & Son, 1342 Ridge av
Quinn, A. M., 1420 N. 20th
Quinn, Jas. A., 5941 N Beechwood
Quinn, Thomas N., 5717 Knox, Gtn
Randolph, Samuel, 1749 S 4th
Rath, Jacob, 33 E. Chelten av, Gtn.
Ray, James, 2d & Indiana
Raynor, Wm. C., 1815 S 11th
Read, Wm. N. (Metal, Slate, Tile, etc.), 30 N 7th
Real Estate Improvement & Repair Co., 2100 N 29th
Real Estate Roofing Co., 23d & Arch
Reed & Gordan, 6560 Gtn av
Reeder, Geo. A., 1213 N 5th
Reichman, Geo. F., 3051 N Carlisle
Reid, P. J., 1952 N 4th
Renz, Chas. Jr., 513 Susquehanna av
Reuss, Ed. H., 4524 Baltimore av
Rettberg, Ernest, 222 N 11th
Reynolds, Thos. J., 1409 E Psyk, av
Rewalt. Albert S., 1123 N 4th
Rhea, Walter D., 547 N Wanamaker
Rhoads & Maloney, 429 N 3d
Riccardi, A. & Son, 915 Passyunk av
Richards, Edw. W., 2146 E Norris
Richards & Schwortz (Metal), 1351 Melon
Richardson, Jesse C., 426 Belgrade
Richman, Walter H., 1236 N 10th
Richter, John H., 2310 N 28th
Rickert. Wm. J., 2264 N 5th
Riemenschneider, Geo. L., 3001 N Leithgow
Robertson, Jas. G., 6375 Germantown av
Ronsky, Morris, 803 S 4th
Roop, Clermont W., 5137 Ridge av
Rorke, P. J. & Co., 140 N 56th
Rosenthal, Joseph, 482 N 4th
Ross, Lewis R., 2429 E Norris
Rossrucker, Herman, 1918 E Passyunk av

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Ruger Bros. (Slate, Gravel & Metal), 1603 N 4th
Sabin, Ed., 1916 N Stanley
Sabin, F. & Co., 237 Bread
Saffian, Leon, 1016 Girard ave
Salb, Wm., 148 Fairmount av
Saling, G. A. & Son, 501 N 62d
Salinger, Chas., 1022 Ridge av
Sassone, Carmine (Metal), 808 S Darien
Schild, Geo. H. Jr., 2338 N 31st
Schleifer, Jacob E. & Co., 4908 N 6th
Schlemmer, Chas. F., 1629 N 21st
Schluch, Peter, 307 Peter
Schmidt, Henry, 3411 Richmond
Schmitt, Edward F., 521 Ludlow
Schnitzler, Chas. H., 215 N 2d
Schreiber, Wm. H., 410 S 12th
Schuehler Bros., 142 Edward
Schwartz, Albert, 812 Poplar
Schwartz, Samuel, 840 S 3d
Schweiker, Wm. G. (Comp.), 2623 Jefferson
Schwickerath, Chas. F., 524 Girard av
Schwinn's, Geo. W. Sons, 1416 W Dauphin
Searle, Chas. P., 722 S 16th
Sears, Jos. W. (Metal), 2903 Mutter
Segal, Sigmund (Metal), 441 N 6th
Seideman, Nathan, 1341 S 4th
Seidman, Joseph, 1707 S 9th
Serote, Frank (Metal), 340 Christian
Seybert, Henry G., 1007 Christian
Shaffer, Chas., 6129 Vine
Shannon, H. J. (Comp., Gravel & Slate), 1710 Federal)
Shapcott, Abraham, 700 N 23d
Shapiro, Aaron (Metal), 1304 S 4th
Sharnow, Alex, 1023 S 5th
Shea, James M., 2955 Richmond
Shenka, Wm., 1916 Norris
Sherman, H., 1900 S 10th
Shinfield, Jos. B., 1222 S 5th
Shroeder, Paul A., 910 Jefferson
Shubert, Geo. W., 3531 Market
Sicer, Chas. W., 2557 Welder
Sidebotham, Harry, Dickinson cor Ringold
Silverstein, Louis (Metal), 778 S 3d
Simon, Leon, 832 N Franklin
Simpson & Murray (Slate, Felt, Gravel & Metal), 1719 Christian
Smith, Chas., 5547 Chester av
Smith, George, 206 E Indiana av
Smith, Horace, 5008 Ditman, Fkd.
Snapir, Sam'l, 727 Watkins
Snyder, Charles S., 3366 Amber
Solomon, Jean, 1444 Etting
Souder, T. (Metal), 420 York
Souders, Willis, 539 Cumberland
Stalley, Jos. (Metal), 2027 E Dauphin
Steele, Chas., 2119 Fitzwater
Steinberg, Simon, 1126 Passyunk av
Street, Adam J., 24 S 52d
Stumm, Chas., 1539 S 2d
Stumm, Ed., 1233 Passyunk av
Sturinsky, Jacob, 419 Lombard
Summers, Edgar, 2318 Coral
Summitt Roofing Co., 217 Quarry
Sutton, Joseph, R., 6010 N Norwood
Taicher, Louis (Metal), 4253 Lancaster av
Taylor, E. D., 3195 Almond
Taylor, Frank W. & Son, 259 S 4th
Taylor, Jno. H., 726 S 8th
Thomasson, Wm. J. & Sons, 108 Arch
Thompson, John C., 4332 Fkd. av
Thompson, Wm., 108 Manton
Thorn, J. S. Co. (Copper, Iron, etc.), 20th & Alleghany av
Thorp, Wm. H., 3131 N 22d
Tierney, John J., 2023 St. Albans
Turner, H. (Metal), 2251 Sharswood
Turner, Richard, 126 E Chelton av, Gtn
Udowitz, Jacob, 707 S 8th
Uffleman, Charles C., 15 N 41st
Viehmann, 604 S 22d
Vincenzo, B., 1009 Christian
Wagner, Paul, 177 Tioga
Wagner, Km. T., 1415 Locust
Wainwright, John W., 4633 Fkd. av
Walker, Isaac, 670 N Park av
Wallen, A. J. & Son, 2000 Reed
Waltz, G. N., 113 N 51st
Ward, Henry, 73 E Wister, Gtn
Warren-Ehret Co. (Comp. & Slag), Land Title bldg
Waselkoosky, Jacob, 433 N 4th
Wayne Jct. Metal Cornice & Roofing Wks. (Metal), 4545 Wayne, Gtn
Weaver, Stephen B., 1722 Bellevue
Weekly, Thos. J., 2103 S 6th
Weer, Geo. P., 114 Indian Queen la Falls
Weger, Sher & S. M. Co., 1421 Moyamensing
Weinstein, Sam'l, 516 Poplar
Weintraub, David, 1103 N 3d
Weiss, Fredk. J., 2305 N 7th
Weiss, Julius, 805 Passyunk
Welch, Howard J., 34 W Mt. Pleasant av Gtn
Welsh, Alex. H., 3333 Howell Wissng
Welsh, P. J., 1117 S 20th
Wenzell, Geo. E., 1136 Girard av
Werner, Aug. J., 2262 N 20th
Werner, Wm., 1236 N 2d
West, Andrew H., 241 Race
West Philadelphia Roofing & Heating Establishment, 46th & Lancaster av
Widmaier, Gustav, 507 Susquehanna av
Wiedersum, Wm. S., 2452 N 2nd
Wilhelm's, Theodore Sons, 128 N 16th
Wilkins, Harry W., 627 York
Williams, John & Son, 2203 Frankford av
Williams, Ralph, 2450 Montgomery av
Williams, Robt. C., 1930 Columbia av
Williams, Ross E., 1 N 41st
Williams, Wm. E., 28 S 18th
Wills, W., 2603 Manton
Wilt, Joseph A., 2224 E York
Wise, Edw., 419 Fairmount av
Wohlfarth & Greenfield, 218 Arch
Wonn, Joseph & Co., 769 Markoe
Woods, Thos. J., 19th & Ellsworth
Wright, Martin A., 3409 Gtn av
Wyoming Roofing Co., 4845 A Fville
Yackly, Harry T., 4638 Westminster
Yeager, John A., 401 Diamond
Young, Robt. H., 1211 S 16th
Young, Wm. H. (Metal), 2632 N Sartain
Zahm, G. Walter & Bro., 5190 Lanc av
Zlausius, Frank I., 929 N 11th
Zolkiewez, Paul, 4123 Gtn av
Zozov, Morris, 1436 S 8th
Zubrin, Samuel, 1210 S 4th

PHILIPSBURG—Bortel, Geo. E.

PHOENIXVILLE—Caswell & Moore (Slate, Metal & Corrugated Iron)
Sturges, Wm. E. (Slate, Felt & Metal)

PINE GROVE—Long, J. L.

PITCAIRN—Barnhart, W. N.
Alexander, Wm. G., 1915 Sedgwick
Allegheny Cornice & Skylight Co., North Side
Alter, Hiram A., 7719 Abbott
Andre, L. A. & Co., 46 Branch
Angermyer, W. F. Co., 714 Homewood av
Arndt, Herman & Co., 2062 Chartiers, N S
Baetz, Mrs. M., 811 Chestnut, N S
Bametzrieder, Henry, 143½ Southern av
Bayless, R. F. & Co., 7732 Frankstown av
Banze, Wm., 5221 Butler
Beiter, Fred. & Son, 243 1st av
Belmar Heating Co., 1121 Murtland
Bestwick, John H., 413 Blackberry
Bindley Hardware Co., 429 7th av
Blackhall, Alex., 10 Savannah ave, Edgwd
Blank, Herman, 5162 Coral
Bloedel, Herman, 408 Chestnut
Bower, W. C., Green st
Brewer & Tyhurst (Slate), 116 Washington
Brice, Joseph H., Spruce Run
Briley, Chas. A., 1003 Forbes
Burns, John & Co., 434 4th av
Cairns, John H., 3 Charles
Caskie, W. J., 1236 Walnut
Champ, W. H., 805 Lincoln av
Conley, Richard, 25 Magee
Coutz, Fleming & Co., 4th nr Chartiers av
Crafton Roofing Co., Nable av
Crawford, Luther, 7733 Baxter
Crist & Schilken, 543 4th av
Dages, U. J., 298 California av
Davis & Caldwell (Gravel), 6376 Frankstown av
Devey, John M., 1119 Euclid ave
Dugan, Jno. T., 5015 Dearborn
East End Cornice & Roofing Co., Berlin st & P R R
Echement, Aug. A., 1208 Grandview av
Ehmann, J. W. (Gravel), 1637 Forbes
Ernst, Henry G., 1222 Wylie av
Exner, W. H., 5th av
Fehringer, E. L., 432 Park View ave
Francis John E., 7116 Bennett
Fortenbacher & Son, 538 Ohio, N S
Fuhrer, Anthony G., 4507 Liberty av
Gantner, Wm., 9 Decatur
Gehb, John, 1272 Ridge av, N S
Gierl, Alois C., 34 Spring Garden av, N S

GILMAN SNOW GUARD
103 Merrimac, Boston, Mass. (See adv. index, end of book)

Graff Bros., 5912 Penn av
Grossman, John, 152 Loretta, Spr Hill
Hahn Bros. (Slate, Tin, Tile, etc.), 3 Magee
Harper, W. J. E., Lincoln ave
Harrison, J., Jr., 211 N Main
Hart, W. V., 5 Robinson, N A
Hartzell Bros., 1325 Sheffield, N S
Helt, G. P., 1915 Sedgwick, N S
Helt, Frank W., Perrysville & Ellis avs, Henle, Albert S., 1336 Penn av N S
Henzel, C. H., 3217 Penn av
Herboldsheimer, Jno. B., 136 Wash'n av
Hill Top Roofing Co., 138 Arlington av
Hite, Frank, 5987 Center av
Hoffman, Philip (Slate & Comp.), 3313 Ward
Iron City Roofing Co., 6943 Frankstown av
Jacobs, Anthony, 1240 Franklin, Sedgwick
Johnson, A. H., 605 Grant
Johnson Bros., 4 Industry
Kearns Bros., 912 Penn av
Keil, Geo., 4603 Butler
Kidd Bros., 2nd st
Kincaid Bros., 211 Water
Kirk, Chas. H., 1018 Beaver av N S
Kirsch, Jacob, 3234 Penn
Klein, Harry, 30 Federal
Knell, Louis, 401 Lincoln
Knodell, W. H., 510 Diamond, N S
Kohler, Paul, 21 Brady
Krause, Samuel, 4 Grant av
Kunzler & May (Gravel), 55 S 10th
Kurtz & Bros., 610 South
Lamneck, Daniel, 140 Kramer Way
Lauth & Dettling, 80 Wabash
Le Goullon, P. (Slate, Tile, Gravel, Actinolite & Slag), Bessemer bldg
Lehne, Fred'k, Jr., 34 Southern av
Liebelt, Henry (Slate), 23 Bigham
Lincoln Heating & Roofing Co., 6440 Frankstown av
Limbach, Frank, 1620 Lowrie, N S
Link, J. & Son, 1918 East, N S
Logan, C. W., 195 Everitt av
Longdon, Hiram, 6731 Kelly
Luckhardt, Louis, 85 Sweetbriar
Lyons, James H., 10 Willock av
McCaw, T. W. Roofing Co., 104 Erie, N S
McClelland & Ray, 912 Homewood av
McClure Co., 14 4th av
McCombs, Wm. P. (Gravel), 2101 Carson
McGarvey, John, 72 Taggart, N S
McGraw's, J. A. Bros., 220 Sandusky, N S
McIlvaine, Geo. D. Co., Keenan bldg
McSteen, Bartley J., 6943 Frankstown av
Mellinkemp, Frank, 2916 East
Meyer, Geo. J., 3223 Kennett sq
Meyer, W. H., 18 7th
Miller, A. P., 6 Carson
Miller, Gilbert J., 228 Southern av
Miller, S. J., 1527 Lincoln av
Morgan Bros., 7123 Hamilton av
Morgan, O. C., 7031 Hamilton av
Mucker, Henry A., 416 Ohio, N S
Myers, F. D., 105 Robinson, W S
National Roofing Co., 209 9th
Niele Bros. (Tin & Slate), 4320 2d av
Nimpfer, A. J., 42 Rhine, N S
Nobbs, G. C., 2520 Smallman st
Nock, Samuel, 53 Industry
Owens, John E., 131 S 18th
Panner, L. & P. (Slate & Tin), 184 S Main
Panner Tin & Slate Roofing Co., 196 S Main
Papencordt, Walter, Rebecca & Sturgeon
Pentz, G. W., 3332 Madison
Peppel, Casper (Slate), 1906 Carson
Perritt Iron & Roofing Co., 116 Brushton
Pfeiffer, Hy. J., 80 S 15th
Phillips, Jno. (Slate), Lynbrook av nr
Phillips & Banze, 5221 Butler Milan av
Pittsburg Cornice & Roofing Co., 1817 Mary
Postler, P. F., 1011 Woodbourne av
Pritchard, L. L., 164 Lowell st
Rasner & Dinger Co. (Tin), 100 2d av
Reed, F. M. & Co., 1312 5th av
Rieb, Louis & Son, 118 E Ohio
Retter, Frank, 1530 East, N S
Rosenthal & Braunstein, 1437 Beaver
Sacher Bros., 1928 Brownsville
SCAIFE, WM. B. & SONS CO., 221 1st av. (See adv. index, end of book)
Scarborough, M. H., 861 E Ohio
Schaffer, A. E., 30 Larimer
Schimpf, Henry & Son, 12 Rolla, N S
Schmidt, A. F., 85 McCluse av, N S
Schmidt, Geo. P. Co., 1018 Ohio, N S
Schnaufer Roofing Co., 816 Concord, N S
Scholes Bros. (Slate & Metal), North Side
Scholze, A. A. & Co., 3939 Perrysville av
Schroeffel, John & Son, 316 Spring Garden
Schuck, Jacob, 70 Washington av, N S
Schwartz, F. W., 614 Wylie av
Schwartz, Nicholas, Jr., 611 Wylie av
Schwartz, H., 9 Stayton, N S
Shirer, John W., 509 Talbot av
Shoop, S. T., 519 Centennial

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Sieg, Fred., 225 Belle
Silberstein, Samuel, 7127 Hamilton av
Sill, J. E., 1465 W Liberty av
Slomovich, Morris, 2620 Penn av
Smith, Frank E., 1618 5th av
Stoops, F. D. & Co., 32 5th av
Stanier & Marshall, E R R ave
Sweitzer, Harry W., 8120 Frankstown av
Totten, W. R., 3600 5th av
Tranter, Samuel, 110 Freeland W
Walker & Wilcox, 5104 Penn av
Warren-Ehret Co. (Slag, Asphalt & Actinolite Tile), Arrott bldg
Watkins, E. J. (Tin), 3035 Geyera
Weaver, C. G., 2851 East, N S
Weber, S., 2201 Mahon
Weisberg-Brown Roofing Co., 1617 Beaver
Weisenstein, E. D., 1344 Main
West, John (Slate), 6442 Aurelia
Wetzel, John A., Ann & Magee
White, Chas. F., 1107 Carson
White, Scott A. Tile, Comp. & Slate), Lewis bldg
Whitney, John, 1716 Wylie av
Wieseckle, Peter J., 514 Chester av
Williams, J. A. & Co., 532 Chatham
Winter, Howard G., 503 Wood
Young, J. F. (Gravel, Iron, etc.), 34th & Zeligman, Simon, 1623 Wylie av A V Ry

PITTSTON—Ash, Jno. M. (Est. of), 115 N Main
Byrne, Jno. W.
Miller, K. S.
Oliver, H., 50 S Main
Smith, F. C. & Co.

PLAINS—Wilson, John

PLEASANTVILLE—Corwin, B.
Mapes, H. C.

PLYMOUTH—Dymand, E. P.
Jacob, Alex.
Morris, John M.
Parry, W. W. (Slate)

PORT ALLEGHANY—Gallup Hardware Co.

PORT CARBON—Brenner, Alfred E.

PORTERSVILLE—Heberling, W. H. & H. E.

POTTSTOWN—Faber, George (Slate & Metal)
Geyer's, W. B. Sons (Comp.)
Kepner, C. G.
March, Daniel
Reidenouer, Thos. S.
Unruh, L. F.

POTTSVILLE—Dimmerling, Frank
Herbrick & Co.
Hill, Howard
Hoefel, Frederick
Hoover Co.
Lamont, W. Scott, 315 N 2nd
Morris, Jos. E., 209 W Arch
Schimpf, Geo. J.
Shugars, Hiram, 322 N 2d

PUNXSUTAWNEY—McQuown, Archibald N.
Robinson Hdw. Co.

QUAKERTOWN—Billger, Allen M.
Dengler, Jas. A.
Gross, Albert S.

READING—Bitting, W. H., 251 Penn
Boltz, I. M. (Slate), 631 Pear
Crosby, Wm. T., 429 S 10th
Dauth, Arnold, 46 Cedar
Dauth, Jno. P. & Son, 18 S 8th
Ganter, Jos. B.
Gantert, Howard, 450 N 11th
Geissler Bros.
Graul, Chas. F., 905 N 9th
Griesemer, C. K. (Slate), 37 N 6th
Homan, N. E., 212 S 6th
Keever, E. F. (Slate), 930 Franklin
Lance, John A. (Slag)
Luigard, Jno.
Mengel, M. L.
Mercer, Albert W.
Miller, James L.
Miller, M. L., 230 Washington
Otto, J. (Es.), 643 Penn
Prutzman, Walter, 304 Penn
Rankin, R. A., 700 N 9th
Rapp, William H. & Co.
Reaser, Lewis
Reist, Reuben H.
Renninger, W. Irvin, 620 N Front
Sausser, A. B. & Co.
Sechler, C. M. (Slate)
Sholl, John
Sohl, Daniel H.
Wagenhorst Bros. (Est. of)
Wilson, R. L. Roofing & Paving Co. (Slag)
Yeager, Wm. B. (Slate & Metal)

RED HILL—Reiter, Edwin

RED LION—Boeckel, W. F.
Lichtenberger, Wm.

REEDSVILLE—Heaps, Davis I.

RENOVO—Cross, Dell

RIDGWAY—Bowen, S. E.

RIMERSBURG—Kaster, P. M. (Slate)
Stewart, B. B. (Slate)

ROCHESTER—Fleming, R. D.
Hartzel, Jno. W. (Slate & Metal)
Rochester Hardware Co.
Schmidt, W. F. (Slate & Metal)

ROSEMONT—Shank, C. Ernest

ROYERSFORD—Buckwalter, J. A.
Reed, Jacob & Son

ST. CLAIR—Wagner, G. B.

ST. MARYS—Burden-Rowan Co.
Sosenheimer, F. X.

SALTSBURG—Getty, J. A. & Son
Moore, J. C.
Shadle, C. C. & Son

SANDY LAKE—Farrah, C. M.

SCHUYLKILL HAVEN—Reed, Raymond

SCHWENKVILLE—Saylor, Benj. S.

SCOTTDALE—Dick, John I. (Slate & Metal)
Griffith & Miller
Jackson, H. A.
Miller, L. A. & Bro. (Slate & Metal)
Scottdale Plumbing & Roofing Co.
Urber, H. F.

SCRANTON—Cowles, William C., 1842 N Main av
Derby, Wm. H.
Dolphin, Martin H.
Doyle, Jas. B. & Co.
Gunster Bros.
Hess, Jacob
Howley Bros. (Felt & Metal), 338 Penn av
Kempter & Claus
Kiesel, Fred
Leonard, T. F., 505 Lack. av
Maddock, Hopkin
Moore Bros. (Slate)
Monies, Geo. B.
Myers Bros.
Prawdzik, Ignatz P.
Quinn, Jas. E., 436 Larch.
Riefenberg & Co.
Scranton Roofing Co.
Warren-Ehret Co. (Composition & Slag),
Wolf & Wenzel 321 N Wash'n av
Zerfass, J. F.

SEWICKLY—Bowers, W. C.
Drynan, A. & Sons
McDonald, Geo. R.
Shoop, S. T.

SHAMOKIN—Ballentine & Taby
Keiser Bros.
Smith, A. & Son
Thomas, C. B.
Unger, Warren
Weaver, Jos. J.
Yocum, Geo. C. & Co.
Zanker, A.

SHARON—Hannah, R. A. &Co.
Hoffman, J. C. & Bro. (Slate & Metal)
Hoffman, P. (Slate & Metal)

SHARPSBURG—Meyer, W. H. (Slate, Metal & Asphalt)
Weisenstein, Mrs. E. D. (Slate & Metal)

SHARPSVILLE—Smith, Karl

SHENANDOAH—Billman, M. L.
Ellis, Daniel, Jr.
Grady, F. J.
Hilderbrandt, Charles
Leach, M. J.
Morgan, Isaac
Pratt, W. R.
Waters, T. C.
Willman, G. F.

SHERIDANVILLE—Marlier & Stewart (Slate, Tin, etc.)

SHICKSHINNY—Woodworth, J. D. & Co.

SHIPPENSBURG—Hykes, William M. & Bro.
Rebuck, R. M.
Wolf, Henry W.

SIEGFRIED—Beer, Daniel, A.
Beer, Geo. W.

SLATINGTON—Dettmer & Handwerk
Fritzinger, Wm. A.

SOUDERTON—Alderfer, H. S., Jr.
Wolford, B. D.
Young, A. R.

SOUTH BETHLEHEM—Bittrick, L. F.
Laufer, Milton
Meyers, A. V.
O'Brien, Thos.
Quier, H. F.

SOUTH SHARON—Davidson, J. E. (Slate & Metal)

SPRING CITY—Mowrey-Harry J. Latshaw Hardware Co.

STEELTON—Cramer, Harry J.
Fencil, Nathaniel S.

STOCKERTOWN—Miller, Thos. A.

STROUDSBURG—Hood, S.
Pierson, John F.
Van Etten Co.

SUNBURY—East End Hdw. Co.
Reed, Edw. D.
Reitz, I. J. (Slate)
Wagenhorst, J. H.
Zettlemoyer, Wm. B.

TAMAQUA—Hadesty, J. M. & Son
Hodgkins & Co.
Reeser, E. R.
Williams, J. Howard

TARENTUM—Alter, W S.
Baker, David
Baker, J. C.
Goodwin, W. F.

TAYLOR—Morgan, J. Milford

TELFORD—Hangey, Jonah T.

TIDIOUTE—Magill, B. S. & Son

TITUSVILLE—Anderson, A. P.
Besselman, J. H.
Hughes, D. D. & Son
Kernochan & Co.
Spitler, Henry (Metal, etc.)
Zook, D. M.

TOWANDA—Dye & Bresee Hardware Co.

TROY—Beardsley & Colony
Dobbins, John E.

TUNKHANNOCK—Billings, Paul & Son
Shook, B. H.
Williams, A. P. & Co.

TURTLE CREEK—Reid, R. G.
Reis, Albert

TYRONE—Neil, E. R.

UNION CITY—Hatch Hardware Co.

UNIONTOWN—Beighley, I. N. (Slate & Metal)
Collins, N. N. & Co. (Slate & Metal)
Kefover, G. B.
Miller & Co.
Talbert, Chas. E.

UPLAND—Morris & Grimison

WARREN—Mott-Phillips Hdw. Co.
Pickett Hardware Co.
Slater, T. O. & Co.
Spencer, C. E.
Spinner, Wm.

WASHINGTON—Brice Bros. (Slate & Metal)
Curran, James
Dentzer, Andrew J.
Hays, G. W. & Co.
Phillips, Chas. W. (Metal & Slate)
Seybold, Clarence
Williams, J. S.

WATSTOWN—Shannon & High

WAYNE—Dunne, Peter J. (Slate, Tile & Metal)
Teany, Chas. M. & Co.
Thomas, Harry R. (Metal, etc.)

WAYNESBORO—Adams & Cline
Brezler, Geo. L.
Frey, C. B.
Miller, Bert.
Russel, Geo. H.

WAYNESBURG—Fisher, Henry (Slate & Metal)
Fisher, Wm.
Helphenstine, Thos. P. (Slate & Metal)
Parker Roofing Co. (Slate)
Sanders & Snyder

WELLSBORO—Gardner & Co.
Haussler, F. A.
Mitchell, W. S.

WEST CHESTER—James Bros.
Palmer, Geo. J.
Smith, R. H. (Slate)
Speer, J. H. (Slate)

WEST GROVE—Greenfield, John H.

WEST NEWTON—Holbert, W. R.
Montgomery, S. K.

WEST POINT—Fenshtermacher, J.

WHITE HAVEN—Keck Hardware Co.
Miller, H. Wilson

WILKES-BARRE—Baab, Frank, S Main & Academy
Becker, Peter & Son
Browne, Chas. E.
Carpenter, B. G. & Co., 30 W Market
Conner, Harry
Edwards, Morris S., 137 S River
Jones, Owen D. (Comp. & Slate), 38 Baltimore
Kaiser, Wm. & Son, 153 S Main
Liem, J. W. & Co., 215 S Main
Metzger, Wm. M.
Montanye, J. H., 36 N Main
O'Rourke, Bernard F., 320 Harzle
Schuler Bros., 76 Hazle av
Turner & Van Scoy, 52 S Main
White Hardware Co.
Williams, Robert P. (Slate, Gravel & Asphalt), 23 Hakes av

WILKINSBURG—Blackhall, James
Britner, E. M. (Slate)
Cruzan, Elmer E., 421 Kelly av
Kearns Bros.
Kurtz Bros. (Slate & Metal)
Marsh, B. & Son, 744 Penna. av
May, Jno. D., 755 Rebecca
Winters, Howard G.

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WILLIAMSPORT—Bailey, T. Edward
Blaisdell, Frank W. (Slate), 641 Cherry
Cockburn, Anthony
Fisher, Charles K.
Fries, Walter H.
McLees & Forsburg, 771 W Edwin
Murray, L. Y.
Rothrock, Joseph G., 207 Market
Schmidt, Henry S., 622 Campbell
Stopper, L. D., 428 Hepburn
Williamsport Hdw. & Stove Co., 750 W 4th
WRIGHTSVILLE—Birnstock Bros.
Wrightsville Hardware Co.
WYNCOTE—Tyson, Edwin
WYNDMOOR—Aiman, Arnold (Slate & Metal)
YORK—Aughenbaugh, George H. (Tin)
Bare, P. J.
Behler, F. W.
Blum & Eyster
Conoway, Samuel T. (Metal)
Erion, Jacob H.
Getz, Jno. Sons
Haas, B. D.
Hantz, C. Edward
Heckert, D. P.
Heckert, E. P.
Householder, H. S.
Kidd, Alex. Son
Kottcamp, C. C. & Son (Slate)
Kraber, E. I. & Son, 214 W Market
Kuehn, Jacob L.
Leonard, Wm. H.
Lichtenberger, Charles
Moul, Geo. H. (Slate)
Rodgers, Abner A.
Schall, William J.
Smith, Edward A.
Smith, H. E., 203 W Market
Stillinger, Charles
Thatcher, Martin
Voss, John A.
Wantz, Milton A.
Weigel, Harvey E.
Wise, Chas. V.
York Corrugating Co.
YOUNGSVILLE—Mead & Fisher
ZIEGLERSVILLE—Shaner, Irwin S.

## RHODE ISLAND.

BRISTOL—McGann, Geo W.
Waldron Co.
CENTERVILLE—Clark, S. M.
Wilbraham, C. A.
CENTRAL FALLS—Allenson, Jos.
Guillet, Francois X.
Martin, A. P. & Co.
EAST GREENWICH—Sharpe, W. R. Hardware
EAST PROVIDENCE—Myra, G. E. Co.
NARRAGANSETT PIER—Bristow, Jno. (Comp. & Gravel)
NATICK—Dailey Bros.
NEWPORT—Bliss, Herbert, 48 Touro
Cassidy, P. F.
Covell, Wm. K., Jr., 163 Thames
Gillies, Jno. (Slate, Tile & Gravel), 16 W Narragansett av
Hart, J. H., 148 Spring
Marden, Jas. F., 328 Thames
O'Brien, George
Shepley, Wm. & Son, 19 Spring
PASCOAG—Smith, James H.
PAWTUCKET—Carpenter, E. P. & Co., 28 N Main
Collins, Henry
Davis, Frank, 404 Main
McParlin, Owen, 24 East av
Maguire, J. T. Co. (Slate, Gravel, etc.), 118 Spring
Pawtucket Roofing Co., 54 Coyle av
Reetz, Robert C.
Thornley G. W. (Gravel), 265 Lonsadel av
Wilson, S. C. & Son, 28 High
PEACEDALE—Hodge, E. S. (Slate & Metal)
PROVIDENCE—Allenson Bros. (Metal), 9 Steeple
Appleton & Lee, 1880 Westminster
Ballou, F. M. & Co. (Felt & Gravel), 1323 Broad
Bell, Hy. G., 9 Haymarket
Broline & Schiavonne, 452 Atwells av
Brunnckow, C. G. Co. (Slate & Metal), 223 Globe
Bullock, Eben G., 361 Washington
Burgess, James, 254 Prairie av
Burnside, Maurice P., 289 Plainfield
Caffrey, Thomas, 46 Abbott
Carney H. & Co., 1088 Broad
Cartier, M. N. & Sons Co. (Slag & Gravel), 293 Canal
Catrell, Jas. E., 146 Smith
Chase, S. Frank, 25 Randall
Citizens' Concrete Co. (Gravel), 75 Westminster

CLASON SNOW GUARD
CLASON ARCHITECTURAL METAL Works (Slate, Metal, etc.), 428 Kinsley av. (See adv. index, end of book)

Corr, J. H.
D'Amario, Antonio, 210 Atwells av
Deacon, James, 71 S Main
Enterprise Cornice & Skylight Works, 27 Bassett
Harris, Clayton Co. (Slate Copper & Tin)
Judd, James J., 231 Smith 281 Canal
Keenan, John F., 42 Beacon
Kellogg, A. O., 250 Eddy
King, George
Lamoureux, F. & Co. (Slate & Metal), 39 Friendship
Leckney, John A., 471 Plainfield
Lovegrove & Burlingame, 955 Westminster
McCurdy, John, 23 S. Main
Macauley Bros.
Maguire, J. T. Co. (Slate, Metal, Gravel, Felt, etc.), 75 Westminster
Milner, J. T., 300 Broad
Moore, J. W. Co. (Gravel, Asbestos, etc.), 143 Allen's av
Nash, Thos. H. J., 706 Craston
N. E. Ventilating & Heating Co., 928 Manton av
Phillips & Phillips, 90 Pine
Providence Cornice Co. (Slate, Metal, Gravel, etc.), 311 Canal
Providence Slate & Gravel Roofing Co. (Slate & Gravel), 55 Fountain
R. I. Concrete Co., 3 Custom House
R. I. Cornice Co., 76 Point
Sampson, J. A., 10 Summer
Shapiro, N. & Co., 8 Steeple
Smith, James M.
Spencer, Frank C., 847 Manton
Strauss Co., 303 Eddy
Thyng, Jomes T.
Tracy, Wm. M., 330 Dean
U. S. Concrete Co.
Wilbourn, John H.
Woolf & Galkin Co., 24 College
RIVERSIDE—Brownell, Purdon W.
WARREN—Lent & Barry
Pardey, H. O.
WESTERLY—Thorpe, Job
Thorpe, Job
Westerly Concrete Co. (Tar, Gravel & Asphalt)
Willard, C. W. Hardware Co.
WOONSOCKET—Arnold, C. O.
French, Oliver P. & Sons Co. (Slate, Metal & Gravel)
Gobeille, N. A.

## SOUTH CAROLINA.

ABBEVILLE—Abbeville Hdw. Co.
ANDERSON—Divver, W. S. & Bro.
CHARLESTON—Arnot, A. M., 172 Queen
Blake, C. W., 206 King
Droze, E. M., 553 King
Masters, R. M., 127 King
Morris, R. J., 127 King
Regan, J. J., 202 King
Roberts, J. H.
Shepherd Supply Co., 232 Meeting
Smith, J. E., 117 King
Williams, T. J., 1 Archdale
CHESTER—Murr, W. H.
COLUMBIA—Cumpsty, A. D.
Palmer, A. D.
DARLINGTON—Welling & Bonnaitt
FLORENCE—Boinset, C. L. Hardware Co.
Burnette, A. W.
Hollis & Wyatt
GEORGETOWN—Ellis, D. L.
Haselden & Co.
GREENVILLE—Barr Hardware Co.
Burns, Dave
LAURENS—Laurens Hdw. Co.
NEWBERRY—Johnson, Wm.
White, J. W.
ROCK HILL—Bailey, J. F.
Westerlund, J. W. (Slate, Gravel & Metal)
SPARTANBURG—Ezell, S. B.
Milster, W. A.
Montgomery & Crawford
Pickens, R. O.
SUMTER—Brailsford, E. T. & Co.
Scaffe, T. C.
UNION—Murrah, T. A.
WALHALLA—Look, B. S.

## SOUTH DAKOTA.

ABERDEEN—Bell & Wynia
Koch, Wm. H. & Son (Metal & Comp.)
Tessier, A. L.
CANTON—Lee, H. A.
Nelson, Michael
Sioux Valley Hardware & Implement Co.
CHAMBERLAIN—Metcalf, T. A.
DEADWOOD—Wardman, H. B.
Wilson, Kenney & Co.
HOT SPRINGS—Gillespie & Co.
LEAD—Coolidge & Bros.
Crox, D. E.
MADISON—Fitzgerald, R. B.
MITCHELL—Koehler, Geo. G.
Turney, F. S.
PIERRE—Calhoun, W. E.
Greenough, Louis
SIOUX FALLS—Brison & Pederson
Hackman, E. W. Hdw. Co.
Larson Hdw. Co.
Nelson & Lohr
Rogness, H. W.
Rummel Bros.
Stallman, Jno.
WATERTOWN—French, D. L. & Son
Pioneer Hardware Co.
YANKTON—Gross, D. D.
Strube & Rathgeber

## TENNESSEE.

ATHENS—McGaughey, Jno.
BRISTOL—Brewer's, W. P. Sons
Mitchell-Powers Hardware Co.
Scates-Merrill Mfg. Co.
Sweet & Connor (Slate & Metal)
BROWNSVILLE—Forrest & Dupree
Hertz & Hofrichter
CHATTANOOGA—Bush & Co.
Chattanooga Roofing & Foundry Co.
Gibson-White Co.
Goodlake, C. W., 813 Broad
Green, W. T.
McMahon, Jas.
Matheny, D. C.
Mountain City Stove & Mfg. Co.
Snow, T. A. Heating & Roofing Co. Slate & Metal)
CLARKSVILLE—Adwell, S. L.
Burchett, J. G.
Elder-Conroy Hardware Co.
Kincannon Bros. (Iron & Tin)
Mehigan, C.
CLEVELAND—Hawk, R. H.
Tipton, E. C.
CLINTON—Mitchell, W. B. & Bro.
COLUMBIA—Rees, J. B.
Wade, E. C.
COVINGTON—Harson, C. A.
DICKSON—Anderson Hardware Co.
DYERSBURG—Chamblin & Patton
Dyersburg Hardware Co.
FAYETTEVILLE—Blakemore, J. A.
Fayetteville Plumbing Co.
Robertson & Goodrich
GALLATIN—House & Brown
GREENEVILLE—Rhea, J. H.
Wilson & Bullen
GREENFIELD—Brock, E. N. J.
Dudley, J. W.
HARRIMAN—Edington Bros.
Salyers, Thomas D.
JACKSON—Anderson, G. C. & Co. (Metal & Slate)
Gaither, J. W.
Reavis, R. A.
JOHNSON CITY—Grubbs, Frank & Co.
Mann, R. L.
Summers-Parrott Hardware Co.
White, S. B.
KNOXVILLE—Chandler & Co. (Gravel)
Cruze, John (Slate), 419 S Gay
Hatcher, Sam
Hill, Lloyd & Co.
McClung, Buffat & Buckwell
Moriarity, D. F.
Mundy & Gredig
Williams, G. R. (All Kinds)
Wolf, J. S.
MEMPHIS—Baker, Osie, 13 Dempster av
Barbieri & Miles, 138 S 4th
Bartholomew Roofing Co. (Asphalt, Gravel, Felt, etc.), 164 S 2d
Burdick, A. W. & Co. (Slate & Metal), 103 S 2d
Campbell & Price, 569 S 3rd
Capps & Elsbury, 1027 Park
Chlem, Levi, 322 Poplar av
Cubbins, F. D. (Slate & Metal), 1 N of Wollentine av
Dermon, David, 343 S 3d
Dermon & Anthony, 341 Poplar av
Dush, Louis, 223 Poplar

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Eichberg & Lang Mfg. Co., 167 Jefferson av
Enterprise Roofing Co. (Slate, Tile, etc.),
Fisher, J. P., 85 S 3d 229 Vance av
Fisher, J. A. & Son, 625 Greenlaw av
Freidman, H. & Co., 517 S Cooper
Fritz, E. H. (Slate, Metal & Composition), 214 N Front
Harrison, W. J., Builders' Exchange
Hawkins, J. H., 108 S Lauderdale
Hermann, Otto, 310 Poplar av
Heidel, A., 556 N 3rd
Jones Bros. & Co., 310 Poplar
Linehan, D., Builders Exchange
Long, W. T., 235 Union av
Lunamand, Geo., 634 E Robeson pl
Maher, Jas., 231 Turley
Miles, E. J., Bldrs' Ex
Miller, G. W. Co., 70 Madison av
Morti, F. D., 635 Looney av
Nohsey & Schwab (Slate & Metal), 230
O'Donnell, Wm., 697 Florida Mulberry
Pine, W. A., 695 S 3rd
Richards, L. W., 77 Linden av
Stewart & Silver, 70 Adams av
Ullman, Chas., 676 E Robeson pl
Verdel, E. F. & Co. (Asbestos & Asphalt), 297 Monroe
Wehmann, John H., 574 N 2d
Wessendorff, Chas. (Slate, Tin & Iron), 197 Washington

MURFREESBORO—Cawthorn, C. R.
Freeman, J. B.
Spain & Hudson

NASHVILLE—Adamant Stone & Roofing Co., 111 1st av, S
Cammerer, H. & Son (Slate & Metal), 227
Cooper, Geo. & Co. 2d av, N
Freasley & Bishop
Gray & Dudley Hardware Co., 222 3d av, N
Howell, Geo. W., 129 3d av, S
Jones & Hopkins Mfg. Co., 207 3d av, N
Kadel, L. J., 912 Church
Latta, Wm.
McGee, J. A.
McInturff, C. C., 131 2d av, S
Minton & Wilson, 514 B'way
Murphy, W. L. & Co., 119 2nd av, N
Murray, E. T. & Co. (Slate, Tile & Metal), 144 3rd av, N
Nashville Chemical Co., 919 N Front
Nashville Roofing & Paving Co., First Nat'l Bank bldg
Parmer, H. E., 410 Deadrick
Phillips & Buttorff Mfg. Co., 217 3rd av, N
Phillips & Co., 213 3rd av, N
Read, J. G.
Robert, A. H.
Schleicher, Edward
Smith, Herrin & Baird, 144 2d av, N
Spain, Geo. S.
Wilson, J. H.
Zimmer, A. & Son

SOMERVILLE—Leach, W. H.
SPARTA—Hull, W. W.
TRENTON—Smith, L. W.

## TEXAS.

ABILENE—Hughes, Edw. S. & Co.
Hughes, Edw. S. & Co.
ALBANY—Taylor, J. C. & Co.
ALVARADO—Park, C. H.
AMARILLO—Harris & Locke
AUSTIN—Arlitt, Max
Bintliff, Charles
Steiner & Kalhoff
Turner, H. L.
BASTROP—Starcke, R. & G.
BEAUMONT—Garner, C. R.
Stanley Sheet Metal Works
BELTON—Hamilton, W. H.
Tulloch, R. E.
BIG SPRING—Kennon, W. S.
BONHAM—McClure & Anderson
BOWIE—McDaniel, R. W.
BRENHAM—Lange Mfg. Co.
BROWNWOOD—Andrews, C. E.
Weakley-Watson-Miller Hardware Co.
CLEBURNE—Cleburne Hardware Co.
Goodwin, T. J.
COLORADO—McMurry, Y. D.
Moeser, W. H.
Stoneham Bros.
CORPUS CHRISTI—Atkinson, Ed.
Heath, C. L.
Simmons, T. S.
CORSICANA—Johnson & Wood Hdw. Co.
Lee, L. H.
Tatum, W. M. Hardware Co.
CROCKETT—Johnson, G. J.
Teal, G. T.

DALLAS—Buckelow, O. O. (Comp.), 846 Main
Dougherty, M. F. & Son
Hinckley, David G. (Slate & Tin), 145 Hickory
Jones, W. A.
King, T. F. (Gravel & Comp.)
Payne, Frank T., 652 Elm
Pierce, F. E.
Schultz, J. H. C. & Son
Smith & Rawlins
Smothers, J. W.

DENISON—Dollarhide & Harris
DENTON—Evers Hardware Co.

FORT WORTH—Atwell Cornice Co. (Tin, Iron & Slate)
Gibbons, H. B.
Little, H. B.
Nash Hardware Co.
Register, J. E.
Waynock, Chas. N.
Wills & Tyson (Gravel)

GAINESVILLE—Clapp, L. L.
GALVESTON—Fedder, Albert & Co.
Fredericks, W. G. (Tin & Iron), 2413 Av A
Hartel, Fred J.
Hoffman Bros.
Miller, W. H.
Opperman, H. C.
Schmidt, W. J. (Slate)
Werner, Geo. P. (Slate & Metal)

GILMER—Douphrate, Bros.
GREENVILLE—Martin, W. A.
Monroe, J. O.
Stuart, J. D.
Turner, R. L.

HILLSBORO—Smith & Tomlinson Co. (Metal & Gravel)
Walker, L. L.
HOUSTON—Bastian, Edwin W., Jr.
Berger, Albert (Slate & Metal)
Brocks, Edward
Brown & Gross
Browne Building Supply Co. (Slate & Tile)
Durnett, Alex. A.
Eckman, Ernest
Eiseman, G. Charles
Feldhake, Bernard
Fisher, W. H. (Slate & Metal)
Fothergill, Thos. W.
Glaser, Carl
Himstedt Bros.
Holtcamp, Edw. E.
Mackrell, Jas. L.
Murray, Albert A.
Necco & Eisemann Co. (Slate & Metal)
Pattillo, Patterson C.
Peny, Jerrold D.
Peny & Williamson
Porter & Glass
Price, A. D. (Shell)
Robinson & Suess
Rogers, W. H. & Co., Inc.
Schlom, Meyer J. (Slate & Metal)
Seline, Louis
Shannon, Grant S.
Varner Roofing & Const. Co. (Comp., etc.)
Vogler, Chas. H. & Co.
Zainfeld, Leon

LA GRANGE—Hopper, G. B.
Streithoff, Aug.

LAREDO—Deutz, A. & Bro.
Siros, Alphonse

MARSHALL—Logan & Whaley (Slate & Gravel)
MOODY—Clay, A. R.
ORANGE—Cox & Myers
Sabine Supply Co.

PARIS—Barnett, J. R.
Bettes, H. S. Hardware Co.
Boothe, Wm. W.
Dyer & Turner
Hancock, J. H.

PITTSBURG—Hanna, S. L.
SAN ANTONIO—Blunt, Wm. & Robt.
Cooper-Stillson Co.
Dean, A.
Dean, J. Jr.
Fischinger, Max
Jewett Cornice & Roofing Co., 203 Soledad

SHERMAN—Locke, J. M. & Co.
Opel, George
Roberts, Sanford & Taylor Co.
Sherman Plbg. Co.
Walsh Hdw. Co.

SULPHUR SPRINGS—Miller, T. M.
Wiegers, Theo.

TAYLOR—Kutzschbach, Frank
TERRELL—Muckleroy & Dew
TEXARKANA—Texarkana Hdw. Co.
TYLER—Daglish-Merc & Mfg. Co.
Roebuck & Son

VERNON—Hampton, Wm.
VICTORIA—Mackrell, W. H.
Praeger, Wm.
Singele, A. T.

WACO—Amiott, John R.
Goodall, Chas.
Lewis, W. S.
Torbett & Germond

WAXAHACHIE—Payne & Bro.
Schuster, W.

WEATHERFORD—Lowe-Carter Hdw. Co.

## UTAH.

EPHRAIM—Jensen, F. Y.
LOGAN—Everton & Sons
Farnes, M. A.
Wadman & Burnham

OGDEN—Crosby & Smith
Crosbie, R. L.
Newman, W. E.
Simmons, J. C., 220 Wash'n av
Stuart, D. K.

PROVO—Blumenthal, H. G.
Fisher, Aug.
Martin, J. J.

SALT LAKE CITY—Backman, S. C., 154 S 6th, W
Bywater & Groo
Johnson, J. A.
Kingdon Bros. & Engler
Mitchell, H., 71 S State
Salt Lake Cornice & Roofing Co.
Salt Lake Hdw. Co., 42 W 2d, S
Schoppe, F. E. & Co. (Slate & Metal)

## VERMONT.

ALBURG—Scriver, F.
BARRE—Phelps, N. D. Co.
Prindle, Eugene A.
Reynolds & Son

BELLOWS FALLS—Bodine, W. H. & Co.
Pierce, Ned (Slate)

BENNINGTON—Hurley, James E. (Slate)
Potter, C. H.
Sanborn & Cummings
Winslow & Remington

BRADFORD—Libbey Bros.
BRATTLEBORO—Bailey, M. A.
Cox, A. V.
Fleming, Patrick
Galvin, Jno.
Hall, George H. (Slate)

BRISTOL—Farr, S. D.
Sheldon, Benamin

BURLINGTON—Blodgett, G. S. Co., 191 College
Brunelle, F. A. & Sons
Buckley, W. H. & Co., 198 Main

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Hathorne, A. C. (Slate, Gravel & Metal), 133 S Winooski av
Moore, E. F. (Felt & Gravel), 144 College

CABOT—Drew, Jas. T.
CUTTINGSVILLE—Eitapence, H.
DERBY—Hay, Jno. C.
EAST CALAIS—Sanders, Geo. E.
ENOSBURG FALLS—Burns, Jno. H.
Paquette, E. E.

ESSEX JUNCTION—Teachout, W. S.
FAIRFIELD—Perry, D.
FAIR HAVEN—Bryant, O.
Norton Hardware Co.

GREENSBORO BEND—Pope, J. H. Co.
HARDWICK—Hardwick Hardware Co.
HINESBURG—Reed, P. & Co.
JACKSONVILLE—Reed, E. P. & Son
JOHNSON—Riddle Bros.
LONDONDERRY—Holt, P. R.
MANCHESTER—Lawrence, Geo. A.
MANCHESTER DEPOT—Davis, A. J.
MIDDLEBURY—Calhoun, A. & Son
Stewart, J. H.

MONTPELIER—Barrows & Peck
Blanchard, F.
Peck Bros.

NEWPORT—True & Blanchard Co.
PITTSFORD—Connally, Michael
POULTNEY—Horton, M. J. & Son
RANDOLPH—Lamson, J. H. & Sons (Iron & Tin)
RUTLAND—Connelly & Loveland
Dunn Bros.
Haywood, F. W.
Landon, W. C. & Co.
Pratt, G. W. & Co.

ST. JOHNSBURY—Farnham, L. H.
Goss, C. H. Co.

SPRINGFIELD—La Fontaine, Staples & Co.
VERGENNES—Harrington, J. A. & Co.
WATERBURY—Ayers, O. L.
Smith & Somerville

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WHITE RIVER JUNCTION—Bagley, E. E.
Billings, Frank P.
Martin, A. C.
Nott, Hiram L.
WILLIAMSTOWN—Robinson, N. B.
WINDSOR—Reed, Samuel A.
Stone, Payson & Co.
WINOOSKI—Allen, Geo. E.
Bigwood, F. E.
WOODSTOCK—Pinney, B. H. & Co.
Wardwell, E. F.

## VIRGINIA.

ALEXANDRIA—Baader, Hy. & Sons
Beach, Leroy, 210 King
Carlin-Hulfish Co.
Hanrahan, Michael A., 626 King
Mansfield, J. H., 515 King
Newton, C. M., 105 N Henry
Norris, Geo. A.
Waddy, Thomas
BERRYVILLE—Bowman, Isaac & Son
Marks & Co.
BLACKSBURG—Effinger, J. P. & Co. (Slate)
BLACKSTONE—Stokes, Williams & Co.
BRIDGEWATER—Smith, H. F.
Wine, J. H. & Co.
BUENA VISTA—De Priest, Robert A.
CHARLOTTESVILLE—Baxter, S. S. & Co.
Martin, W. T.
CHATHAM—White, W. E.
CHRISTIANSBURG—Smith, H. P.
CLIFTON FORGE—Coutts, Gordon
Smith, W. K. Hardware Co.
COVINGTON—McCleary, W. D.
McMunn, J. R. & Son
CULPEPPER—Thomas, W. A. Son & Co.
DANVILLE—Flynn, J. A. & Co.
Piedmont Hardware Co. (Slate)
Tyler, J. E. & Co.
Virginia Hardware Co.
FARMVILLE—Noell Bros.
FRANKLIN—Pace, W. T.
FREDERICKSBURG—Cain, E. J.
Davis & Gately
Proctor, John B. & Co.
Scott, J. F.
FRONT ROYAL—Forsythe, J. F. & Co.
Gilkey & son
HAMILTON—Benedum, W. A.
Myers, Nathan
HAMPTON—Burbank, J. M.
Copeland, Joseph F.
Council, J. C.
Williamson, C. M.
HARRISBURG—Saum, John R.
Saum, M. L.
JONESVILLE—Crowell, Jobe
LEXINGTON—Anderson, R. S. Co.
Keffer & Hewitt
Rhodes, F. P.
LURAY—Campbell, J. W.
LYNCHBURG—Burks, Walter & Co.
Doherty & Casey
Dornin, T. D. Adams Co.
Noel, M. B. & Son
Price, Allen B.
MADISON—Teasley, Geo. R.
MANASSAS—Davis, A. P.
MANCHESTER—Jones, Edgar A.
Meighan, Chas. M.
MARTINSVILLE—Cheshire, J. W. & Sons
Stultz Bros.
MONTEREY—Gillespie, John
NEW MARKET—Crim, G. W.
Roberts, J. W.
Wickes, H. G.
NEWPORT NEWS—Brittingham & Finnegan
Lipman, I. (Inc.)
Roth, Frank
Ryan, E. L. & Co.
Stone, C. E.
NORFOLK—Addenbrook's, J. U. Sons (Gravel, Felt, Cement), Monticello av & Wolfe
Banks, Geo. T. (Slate, Tile, etc.), 215 Monticello av
Barnard, W. H. & Co., 255 Main
Bohn Roofing & Cornice Co. (Asphalt, Felt, Slate, Metal, etc.), 11 Plume
Cachelin & Cherry, 345 Church
Flora, W. H.
Foster & Sons Co. (Inc.)
Hampton, J. M. & Co.
Howard, John T. Co.
Kiernan, Jas. V., 137 Bank
Mahone, Charles D. (Slate), 373 Church
Meginley, W. C.
Muller, W. B.
Shepherd, W. J. & Co. (Metal), 595 Church
Smith, Frank P. & Co. (Slate), 211 Monticello av
Stephenson, J. G.
Thomas, T. W. & Co. (Slate, Metal, Tile, etc.), 31 Bank
Watson, Geo. E., 82 Wolfe
Wilson, L. B.
PETERSBURG—Bangley, N. J. & Co.
Brunet & Sommers
James, Geo. W.
Johnson, J. R.
Marks & Marks
Mutter, W. M.
Perkins & Smith
PORTSMOUTH—Albert, R. L.
Oertley, John R.
Riley, P. J.
Stroud, G. H. & Bro.
Thomas, T. W. & Co. (Metal & Tile)
Whitehurst & Riley
PULASKI—Pulaski Plumbing & Roofing Co.
RICHMOND—Armitage Mfg. Co. (Gravel, Slag & Comp.), 3200 Williamsburg av
Atkinson, Wilton T., 1003 E Marshall
Beckley, C. F.
Burton, Reuben, 703 E Carey
Chappell, James H. & Bro., 110 N 7th
Cosby, Frank A.
Dorset, L. W. & Co. 615 E Main
Eanes, Wm. H.
Fensom, Edward B., 116 S Linden
Fordham, Jas. N.
Gray, Fred G. (Tin)
Haley, Wm. W. (Slate & Tile), 124 S 8th
Harris & Wood
Hatter, Walter L.
Hilton, Sidney H., 113 W Duval
Holzhauer, Henry Jr., 510 E Broad
Jordan, Jno. W.
Kritzer, Creery & Co., 511 N 23d
Leftevich, Wm. C.
Lynn, Henry C., 407 Brook av
McCabe, Thos. W.
Myer, William R., 121 W Marshall
Messerschmidt, Henry, 214 W Broad
Pemberton & Benson, 320 E Broad
Roach, Russell, 804 Randolph
Rose, J. H. & Co., 1427 E Main
Rose, John E. & Co., 800 E Broad
Southern Plumbing & Elec. Co., 619 E Main
Trainum, Chas. H.
Virginia Plbg. & Heating Co., 26 N 9th
Williams Slate Roofing Co. (Slate, Tile, etc.). 12 N 9th
ROANOKE—Atkinson Plumbing Co.
Engleby & Bro. Co. (Slate & Metal), 17 Salem av, S W
Possin, Theo. & Co., 110 2d, S W
Roanoke Sheet & Metal Co.
SALEM—Dame, F. C. & Co.
SOUTH BOSTON—Nesbit & Barnett
STAUNTON—Flavin & Watson
Gregory, C. E. Jr.
Marston Stove & Roofing Co.
Tanner, Chas. & Co.
SUFFOLK—Farley, W. J. (Slate)
Folk , E. L. & Co.
Norfleet & Bro.
UPPERVILLE—Bradfield, J. E.
VINTON—McLean, Daniel
WARRENTON—Houchens, T. M.
Martyne, B. F.
Wood, D. P. & Co.
WAYNESBORO—Fry, T. C.
O'Connor, D. L.
WEST POINT—Clayter, J. M.
Davis, W. C.
WINCHESTER—Keating, Wm.
Reed, M. T.
Solenberger, J. S. & Co.
WOODSTOCK—Bauserman, Jas. R.
Kneisley Bros.
WYTHEVILLE—Pattison, B.
Peck, Jno. A.
Umbarger, J. M.

## WASHINGTON.

ABERDEEN—Cook, H. L. & Co.
BELLINGHAM—Hinsdale Hdw. Co.
Morse Hardware Co.
Munro & Haskell
Northwest Hardware Co.
Stoddard, C. W.
CENTRALIA—Bower, B. F. & Son
McNitt, Frank T.
COLFAX—Barroll & Mohoney
DAVENPORT—Thomas, L. H.
EVERETT—Agnew Hdw. Co.
Pacific Hardware Co.
Westover, R. M.
HOQUIAM—Fesenfeld, W.
NORTH YAKIMA—Keck, E. O.
Yakima Hdw. Co.
OLYMPIA—Binheimer, W. W.
Meyer, Victor E.
Olympia Hdw. Co.
SEATTLE—Alexander, Desire, 404 Columbia
American Sheet Metal Works
Amick, H., ft King
Atz, Edward, 119 Bell
Barger, M. A. & Co., 1017 Post
Blumstein, Harris, 1321 E Madison
Brumbaugh, A. C., 7404 Greenwood av
Cadwell, D. S., 704 Madison
Clark, T. F. Co., Flyer Dock
Crocker, W. J., 3521 Fremont av
Cummings, W. K., 2927 1st av
Curtiss, Wm. M. Co.
Danbersmith, E. C., 1013 E Greenlake boul
Edgar & Campbell, 89 Pike
Enterprise Sheet Metal Works
Erickson, J. H. & Co.
Ernst Hardware & Plumbing Co., 514 Pike
Feringer, Henry, 2117 6th av
Finlay & Robb, 2103 First av
McGraw, E. R., 1617 44th av
Merz Sheet Metal Works, 112 2d av, S
Noon, T. A., 1807 7th av
Olympic Roofing Co.
Pioneer Sheet Metal Works, 1924 Western
Popple & Knowles, 1023 Post av
Puget Sound Sheet Metal Works
Rustard Hardware & Plbg. Co., 315 2d
Sacks, M. J., 1715 Yesler way av, S
Scofield, J. W., 421 Cedar
Seattle Cornice Works (Slate, Metal & Gravel), 1730 1st av, S
Seattle Sheet Metal Shop
Sound Roofing & Cornice Works, 2615 1st av
Standard Sheet Metal Works
Sullivan Bros.
Tomlin, T. G. & Son, 1510 6th av
University Sheet Metal Works
West Seattle Tin Shop
White & Manke, 2726 1st av
SPOKANE—Brandt Bros.
Brown Bros. (Slate, Metal & Comp.)
Brown, I. L.
Brown, Wm.
Burns, H. J.
Evers, G. C.
Henderson, L. A.
Holley, Mason Hardware Co.
Jensen-King-Byrd Co.
Keeler, W. P.
Ringel & Mikesell
Rogers Bros.
Schrimpf, Chas. Y.
Specht, G. E.
Spokane Hdw. Co.
Walker, C. B.
Woodward & Stein
TACOMA—Allen, H. C.
Anderson, K. A.
Cizek, A. F. Sheet Metal Wks. (Metal, Asphalt, etc.)
Geisenheyner, Jno. F.
Gheri, A. & Co.
Hirsch, I. L.
Holaday & Bailey
Logan, C. P.
Mayer, M. P.
Miller, Edw. Cornice & Roofing Co.
Myers, H. W. & Co.
Nelson, Andrew
Papst, Oliver R.
Schmid, H. W.
Schock, Thompson & Brooks
Sergeant Heating Co.
Stillman, Drew & Co.
Washington Hardware Co.
Williams, C. W.
VANCOUVER—Sparks, M. R.
WALLA WALLA—Drumheller Co.
Loehr & Flanders
WATERVILLE—Carpenter & Murdock

## WEST VIRGINIA.

BERKLEY SPRINGS—Ambrose, C. P. & Bro.
BLUEFIELD—Hefner, O. V.
Whitlow, M. G. Hardware Co.
CHARLESTON—Allen, P. B.
Brawley, D. A. (Slate & Metal)
Fisher, Henry H.
Shawyer, W. F. Co. (Slate & Metal)
Sheils, J. W.
Wolf & Lloyd
CHARLESTOWN—Dooley, B. F.
Easterday & Co. (Slate & Metal)
Trimble, W. E.
CLARKSBURG—Albright, J. H.
Batten, J. A. & Bro.
Hennegan, R. W.
Sutter Roofing & Cornice Co.
Wilson, Chas. B.
Yates, J. T.

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ELKINS—Damon, C. H.
Fisher, Harry S.
Taylor, S. J.
FAIRMONT—Hough, C. D.
Morgan, Z. W. & Bro.
Morris, J. S. & Son
Staley, Joshua F.
GRAFTON—Caveney, Jno. F.
Dancer, T. E. & Co.
Luethke, J. W. (Slate & Tin)
Preiss, J. G. & Sons
Smith, W. C.
HUNTINGTON—Flesher, Ira E. & Co.
Hagan & Co.
Johnson, C. A.
Pritchard, C. L.
Simpson & Co.
MARTINSBURG—Blondell, J. H.
Moore & Gardner
Westenhaver, S. A.
MORGANTOWN—Bowie, Walter
Huston, C. R.
Limerick, C. H.
Reed Bros.
MOUNDSVILLE—Leach, L. H.
McLure, Harry T.
Riggs, W. A.
NEW CUMBERLAND—Young, H. B.
PARKERSBURG—Bosbury Bros.
Cecil-Jones Co.
Dickel, Jno. & Sons (Slate & Metal)
Kearns, P. J.
Martin, A. A. & Son
Neal, R. L. & Co.
Scott Roofing & Mfg. Co.
Sharp & Kerns (Slate & Metal)
PHILLIPPI—Woodford, F. D.
RONCEVERTE—Eagle, J. W. P.
SALEM—Nutter, H. D.
SHEPERDSTOWN—Marten, H. C.
SISTERSVILLE—Abrams, Fred.
WELLSBURG—Charnock, J. M. (Metal & Slate)
Warden, S. M. (Slate & Metal)
WESTON—Schmidt, Matt
Simpson & Sons
WHEELING—Adkins Roofing Co. (Slate, etc.)
Bayha, D. H.
Bayless Bros. (Slate, etc.)
Caldabaugh, C. P.
Caldwell, B. F. & Co. (Slate & Metal), 1508 Market
Hall & Burkhart
Jones, Jno. H.
Mahaffee & Son (Slate, etc.)
Nesbitt, Wm., 2232 Market
Nesbitt & Bro., 1312 Market
Ohio Valley Roofing Co. (Slate, etc.)
Price, Charles
Vockler & Coffee
Vogler, Jos., Jr. (Slate & Metal)
Williams & Eimer

## WISCONSIN.

ADDISON—Weiss, S.
ADELL—Seifert, Anton
APPLETON—Galpin's, Alfred Sons
Hauert, Jacob J.
Kloepfel, Wm. E.
Miller & Reinke
Schiedermayer, Geo.
Schlegel, H. J.
Schlafer Hdw. Co.
Tesch, Wm.
ARGYLE—Hendrickson Estate
ASHLAND—French, B. W. & Son
Lubiens & Olson
BARABOO—Gaskell, F. N.
BELOIT—Spickerman & Bratley
Watson & Bittel
Wolff & Becker
Zimmerman & Osborn
BERLIN—Peck, C. A. Hdw. Co.
BLACK EARTH—Fesenfelt & Barber
BOSCOBEL—Beimborn & Nauert Hardware Co.
BURLINGTON—Wagner, C. B. Hardware Co.
CASCADE—Ruppenthal, A.
CEDARSBURG—Groth, Henry G.
Lehmann, C. W. & Bro.
CHIPPEWA FALLS—Hoenig Bros.
Koep, Otto
CLEVELAND—Belitz Bros.
CUBA—Kellner, C. & Son
DALE—Bock, C. A.
DELAVAN—McCoy & Besecker
DE PERE—Pratsch, G. G.
EAU CLAIRE—Crosby, E. A.
Fraley, George
EDGAR—Punchner, A. W.
EVANSVILLE—Baker, F. A. & Co.
Evansville Mercantile Ass'n
FOND DU LAC—Bennett, W. B.
Brenner, Jacob
Cheney, S. H.
De Wolf, Geo. E.
Diedricks, F. W.
Haensgen, J. H.
Murphy & Murphy
GRAFTON—Schmidt, F.
GREEN BAY—Brown & Tickler
Cooke, W. D.
Danz, Heilmer
Findelsen Bros.
Follette, George B.
Fontaine, B. Hardware Co.
Francois, Jos. P.
Green Bay Cornice & Corrugating Co.
Hambitzer, Joseph
Harris, Theo. E. (Slate & Metal)
Kimball, Chas. P., Jr.
Lamerond, J. L.
Van Veghel Bros.
HARTFORD—Esser & Schmidt
Kissel, L. & Sons
HAZEL GREEN—Edwards, James & Sons
Grieves, Robert D.
HURLEY—McConnell Hardware Co.
Voight & Christensen
JANESVILLE—McNamara, H. L. (Slate & Metal)
Nobiensky, Hugo
Pelton, E. H.
Truesdill, E. A.
KAUKAUNA—Buttler, Ditzler Hardware Co.
Feller, Peter (Tin & Metal)
Hass & Hohmann (Tin & Metal)
KENOSHA—Jansen, T. E.
Skidd, Chas.
Terhnow & Hansen
Wallig, Jno. B.
Western Hdwe. Co.
LA CROSSE—Badger Steel Roofing & Corrugating Co. (Slate, Tile & Metal)
Dittman, Fred. Hardware Co.
Gass, Anthony
Gateway City Steel Tank & Roofing Co. (Slate, Tile & Metal)
La Crosse Cornice & Ceiling Co.
La Crosse Steel Roofing & Corrugating Co. (Slate, Tile & Metal)
Leinfelder & Hughes
Tausche, V. Hardware Co.
Thomas, H. C.
LAKE GENEVA—Cobb Hardware Co.
Heiden, Chas. A.
Jenkins, E. W.
Moore, F. S.
LANCASTER—Ziegler Bros.
LENA—Libal, Francis
MADISON—Anderson, Joe
Blied, J. H.
Blied & Schneider
Burger, Peter
Drews, William
Gill & Co.
Krebl & Son
Kroncke, A. G. Hardware Co.
Miler, Waldron & Studemann (Slate & Metal)
Morhoff Bros.
Sumner & Morris
Trachte Bros.
Wolf, Kubly & Hirsig (Slate & Metal)
MANAWA—Shipman, H. E.
MANITOWOC—Kerscher Bros.
Kerscher Bros. Co.
Rathsack, Wm. & Sons
Wallschlaeger's, Jno. Sons
Wernecke & Schmitz
Worel & Zeman
MARINETTE—Simcox, H. B. & Co.
Watson Bros. (Asbestos & Metal)
Westlund, August
MENOMONEE FALLS—Thomas, Fred.
MENOMONIE—Brennan, D. C.
Steffen, H. W.
Young, Jno. A.
MERRILL—Fehland, H. R. & Co.
Mittelstedt, Wm.
Wenzel, Gustave
MIDDLETON—Manning, W. J. C.
MILWAUKEE — Badger Roofing Co. (Gravel, etc.), 217 4th
Bauschek & Biegler, 503 12th
Beernink, S., 343 33d av
Biersach & Niedermeyer (Slate, Tile & Metal), 216 5th
Bishop, John, 1329 Cherry
Bogenberger & Goessel, 68 Mason
Braun, Millen & Co., 534 Clinton
Bretzel, Herman J., 1904 Fond du Lac av
Bruss Bros., 648 12th
Buttles, Fred. S., 7 Clybourn
Caspari, Chas., 364 E North av
Consolidated Sheet Metal Works (Slate, Tile & Metal), 661 Hubbard
Coorsen, Louis Jr. (Comp.), 316 16th
Cox, Jos. L. (Slate, Tile & Metal), 138 6th
Cream City Roofing & Paint Mfg. Co., 219
Dady Roofing Co., 398½ 14th 6th
Devitt, J. M., 608½ 27th
Dobl & Busse, 405 Grove
Feix & Goethel, 818 Winnebago
Follansbee Bros. Co., 285 Oregon

GILMAN SNOW GUARD
103 Merrimac, Boston, Mass. (See adv. index, end of book)

Graunke, August, 431 28th
Green, David D., 215 6th
Groeschel, Jac, 715 15th
Hammann, Wm., 752 4th
Harbach, Christian (Asphalt), 1709 Walnut
Harwood, F. M., 90 Russell av
Haselow, Fred, 1417 Second
Heinig, Herman C., 871 Inland pl
Held & Dern, 1524 Fond du Lac av
Henrich, Theo. A., 584 Walker
Hergarten, G., 1826 Wright
Hesse, Emil & Co., 1550 9th
Hilger, Edward, 939 5th
Hoffmann, C. & Co., 861 Cambridge av
Hoffmann & Baur, 279 Lake
Hofmeister, Leo Co., 396 Clinton
Hollitz, Frank J., 1338 Green Bay av
Hollitz & Bogenberger, 445 Jefferson
Jeske, Reinhard & Bro. (Slate, Tile & Metal)
Kaempf, F., 110 Clybourn
Kauper, John W., 488 14th
Kilberth, Jos. A., 1522 Walnut
Klubertanz, August, 2325 Fond du Lac av
Koch, J. W., 833 Winnebags
Krsek, Anton (Slate & Metal), 1209
Krsek, Joseph, 1522 Vliet Chestnut
Lauterbach, Geo. H., 1164 7th
Lavies, P. J. & Co., 482 National av
Lenck, Chas. H. & Bro., 299 Ellen
Lindermeier, Hans, 749 Jefferson
Lorch, Wm. P., 488 12th
Lyman, J. & Co., 1105 23rd av
Mertens, L., 1183 6th
Merz, Joseph, 1018 Cherry
Millen, Frank & Sons, 247 Orchard
Moeller, Herman, 786 Holton
Monsted, A. Co. (Comp.), Pabst bldg
Mueller, Charles, 728 Germania
Naczek, Jacob, 1135 N Walter
Patterson, Wm., 786 Booth
Pietsch, Ferd., 619 Cedar
Podolske, August (Slate & Metal), 18 Center
Radmer, Wm., 1394 21st
Roeder, Chas., 1520 7th
Romberger, Jos., 2115 Cherry
Schaetzke, Herman, 785 7th
Schmidt, Jno., 2443 Center
Schmitt, F. & Sons Co. (Slate, Tile & Metal), 301 4th
Schranz, M. M., 503 North av
Schupinsky, Aug., 497 B'way
South Side Roofing Co. (Comp. & Gravel), 235 Reed
Stachowiak, Charles, 949 8th av
Standard Roofing Co., 549 3rd
Stein, David & Co., 702 Marwet
Stollenwerk, Nick, 984 Kinnickinnic av
Tonnsen, E. B., 51 3d
Toombs, Jas., 271 27th
Weissleder, Herman Co., 816 Winnebago
Wiesend, John M., 828 Winnebago
Winding & Gezelschap (Gravel, Asphalt, etc.), Pabst bldg
Winter, Charles, 2453 Walnut
Zweck, Harry, 516 Mineral
MONROE—Kundert, C. Hardware Co.
Lanz, Fred
NEW GLARUS—Hoesley Bros.
NORTH PRAIRIE—Hess, Frank E.
OCONOMOWOC—Lorleberg, H. Co. (Inc.)
Smith & Meadows
OCONTO—Barlament, H. M.
LeMieux, E. A.
OREGON—Marvin Hardware Co.
OSHKOSH—Cornelius, Frank
Dukerschien Heating & Ventilating Co.
Heine & Weishoff
Krippene Hardware Co.
Leach Hardware Co.
MacNichol, F. F. & Co.
Terwedo, L. R. Mfg. Co.
Warning, G. F.
PESHTIGO—McGraw, F. E.
PLATTEVILLE—Pitt, B. J.
RACINE—Anderson & Fritz
Gerbig, W. E.
Mohr-Jones Hdw. Co.
Murphy, James, 614 State
Prostrenik & Kroupa

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Sprado, W. A.
REEDSBURG—Ellenberg & Ost
Siefert, Aug. Hardware Co.
RHINELANDER—Lewis Hdw. Co.
RIPON—Barlow & Sellig Co.
RIVER FALLS—Dodge, Geo. J. & Son
ROCKDALE—Norgord, J. E.
ST. CLOUD—Dreifurst Bros.
SCOTT—Leifer, G. A.
SEYMOUR—Droeger Hardware Co.
SHEBOYGAN—Booshardt, H. (Composition)
Geele Hardware Co.
Koepsell, J. J. Hardware Co.
Kraft, Fred. (Composition)
Prange & Geussenhainer Co.
Ramaker, J. J. & H. G.
SOUTH MILWAUKEE—Kuhn, A. W.
SPARTA—Reisinger, M. (Metal)
STEVENS POINT—Gross & Jacobs
Krembs, C. & Bro.
STOUGHTON—Havey, W. O.
Wiegel & Phillips
STURGEON BAY—Schofield Co.
SUPERIOR—Arnold & Schimmel (Metal, Iron & Gravel)
Bingham Hdw. Co. (Slate, Metal & Comp.)
Carlson Bros. (Slate, Metal, etc.)
Fogelquist, Frank
Holmes, A. E. Bros. & Co. (Slate, Metal, etc.)
Olscamps & Kunert
Roberts, G. W.
TISCH MILLS—Horkey, Joseph
WALDO—Timmer & Hein
WASHBURN—Bergman, E.
Ungrodt, B. (Asbestos, Metal & Gravel)
WATERTOWN—Geschke, Richard
Kusel, D. & F. Co.
Pritzlaff, W. G. & Co.
Winkenwerder, Henry
Wittchow, Charles
WAUKESHA—Klock, J. J.
Le Clear, N. H.
Perkins Hardware Co.
Tolg, C. F. (Slate & Metal)
WAUNAKEE—Fleiner, Gustave
WAUPUN—Buelow, Geo. W.
Howard, Wilfred C.
WAUSAU—Brandt, Emil
Collins, W. F.
Kuckuck, Wm.
WEST BEND—Ott & Boden
Warnkey, Wm. A.
WHITEWATER—Utter, Thos. G.
WRIGHTSTOWN—Rather & Schaeuble

## WYOMING.

BUFFALO—Astell, Geo. T.
CHEYENNE—Hopper & Bartley
EVANSTON—Fife, J. J.
LARAMIE—McClure & Graham
Tefft, Amos
SHERIDAN—Daly, D. H.
Salisbury, E. H.

## 9796—Roofing (Actinolite)

Machwirth Bros. Co., Buffalo, N. Y.

## 9797— Roofing (Asbestos)

Bartholomew Roofing Co., Memphis, Tenn.
Carey, Philip Mfg. Co. ("Carey's"), Lockland, O.
Chicago Asbestos Mfg. Co., 1909 W 22d pl, Chicago, Ill.
Chicago Fireproof Covering Co., 27 Mich av, Chicago, Ill.
Consolidated Roofing Works, Columbus, O.
Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
JOHNS, H. W.-MANVILLE CO. ("J-M" Ready), 100 William, New York. (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.
MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)
New Jersey Asbestos Co., Camden, N. J.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Stowell Mfg. Co., Jersey City, N. J.
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

## 9798—Roofing (Asbestos-Metallic)

HYNDMAN ROOFING CO., 318 E 2d, Cincinnati, O. (See adv. index, end of book)
Keasbey & Mattison Co., Ambler, Pa.

## 9799—Roofing (Asbestos Protected Metal)

Asbestos Protected Metal Co., Canton, Mass.
HYNDMAN ROOFING CO., 318 E 2d, Cincinnati, O. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHINery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moeschl-Edwards Corrugating Co. ("Gem" Brand Underside Protected with Cement Paper or Asbestos), Covington, Ky.

## 9800—Roofing (Asphalt Felt, Mica-Plated)

Union Roofing & Mfg. Co., St. Paul, Minn.

## 9801—Roofing (Asphalt Gravel)

Acme Asphalt Roofing Mfg. Co. ("Eagle" Brand Ready), 65 Mallory av, Jersey City, N. J.
Stowell Mfg. Co., Jersey City, N. J.

## 9802—Roofing (Asphalt, Ready)

(See also Roofers; also Asphalt Dealers & Importers)

Acme Asphalt Roofing Mfg. Co. ("Eagle" Brand), 65 Mallory av, Jersey City, N. J.
American Insulating Material Mfg. Co. (Ivoryoid Indestructible Fireproof), Alexander, Armitage Mfg. Co., Richmond, Va. Ind.
Asphalt Ready Roofing Co., 9 Church, New York
Asphalt Roofing Co. ("Wanigas"), Saginaw, Mich.
Barber Asphalt Paving Co. ("Genasco"), Phila., Pa.
Bird, F. W. & Son, East Walpole, Mass.
Bird, J. A. & W. Co., Boston, Mass.
BURTON, W. J. CO., 161 W Congress, Detroit, Mich. (See adv. index, end of book)
Carey, Philip Mfg. Co. ("Carey's"), Lockland, O.
Carpenter-Morton Co. (Wool Felt Saturated with Asphalt), Boston, Mass.
Consolidated Roofing Works ("Standard"), Columbus, O.
Densmore-Stabler Refining Co., Los Angeles, Cal.
DOGGETT, STANLEY (Finish), 101 Beekman, New York. (See adv. index, end of book)
Eastern Granite Roofing Co., 19 Battery pl, New York
Elaborated Ready Roofing Co., 4417 Wentworth av, Chicago, Ill.
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
General Roofing Mfg. Co., East St. Louis, Ill.
INDIAN REFINING CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)
Lewis, F. J. Mfg. Co., 2513 S Robey, Chicago, Ill.
McClintock & Irvine Co., Pittsburg, Pa.
McHenry-Millhouse Mfg. Co. ("Climax"), South Bend, Ind.
Mastic Wall Board & Roofing Mfg. Co. ("Bishopric" Mastic), Cincinnati, O.
Minneapolis Paper Co. ("Monarch" Brand), Minneapolis, Minn.
National Roofing Co. ("Security," "Safety"), Tonawanda, N. Y.
Patent Vulcanite Roofing Co. ("Vulcanite"), 1288 S Campbell av, Chicago, Ill.
Pioneer Paper Co. ("Ready Rock"), Los Angeles, Cal.
Porter Iron Roofing & Corrugating Co. ("Porteroid"), 522 Culvert, Cincinnati, O.
Schillinger Bros. Co. ("Eagle" Brand), Detroit, Mich.
Scott Roofing & Mfg. Co. ("Asteroid"), 408 Culvert, Cincinnati, O.
Sonneborn, L. Sons ("Sonnecote," Asphalt-Fibre), 262 Pearl, New York
Stewart, W. W. Mfg. Co., 65 Delevan, Brooklyn, N. Y.
Stowell Mfg. Co., Jersey City, N. J.
Trainer, C. W. Mfg. Co., Boston, Mass.
Trinidad Asphalt Mfg. Co., St. Louis, Mo.
Union Roofing & Mfg. Co. ("Gal-Va-Nite"), St. Paul, Minn.
Warren Chemical & Mfg. Co. ("Anchor," "Walrus," "Mineralite" and "Permanoid"), 17 Battery pl, New York
WATSON, H. F. CO. ("Indrnroid") Erie, Pa. (See adv. index & branch offices, end of book)
West Coast Mfg. Co., Waukegan, Ill.

## 9803—Roofing (Asphalt Slag)

Acme Asphalt Roofing Mfg. Co. ("Diamond" & Gray Slag), 65 Mallory av, Jersey City, N. J.
BURTON, W. J. CO., 161 W Congress, Detroit, Mich. (See adv. index, end of book)
Hetzel, J. G. (Est. of), Newark, N. J.
Stowell Mfg. Co., Jersey City, N. J.

## 9803a—Roofing ("Asteroid")

Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

## 9804—Roofing ("Best-ov-all")

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

## 9805—Roofing ("Byerley," Asphalt)

Byerley & Sons, Cleveland, Ohio

## 9806— Roofing (Car)

Armitage Mfg. Co., Richmond, Va.
Asbestos Protected Metal Co. ("Robertson" Standard for Inside of Box Cars), Canton, Mass.
Barrell, Wm. L. Co. ("Con-Ser-Vit"), 75 Worth, New York
Bird, F. W. & Son ("Paroid"), East Walpole, Mass.
Carey, Philip Mfg. Co. (For Freight Cars, etc.), Lockland, O.
Chicago-Cleveland Car Roofing Co. (Freight Car, Metal), Old Colony bldg, Chicago, Ill., & Cleveland, O.
Drake & Wiers Co. (Asphalt), Cleveland, O.
Excelsior Car Roofing Co., Chemical bldg, St. Louis, Mo.
Fay Manilla Roofing Co., Camden, N. J.
General Railway Supply Co. ("National" Standard), 204 Dearborn, Chicago, Ill.
Hutchins Car Roofing Co. (Iron & Plastic), Penobscot bldg, Detroit, Mich.
JOHNS, H. W.-MANVILLE CO. ("Cas-Best-Us"), 100 William, New York. (See adv. index & branch offices, end of book)
Patent Vulcanite Roofing Co. ("Vulcanite" Rubber), 1288 S Campbell av, Chicago, Ill.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Standard Paint Co. (Ruberoid), 100 William, New York
Standard Railway Equipment Co. (Murphy Galvanized Iron), Pittsburg, Pa., & St. Louis, Mo.
Western Elaterite Roofing Co. ("Elaterite"), Denver, Colo.
Winslow, Horace L. Co. (Torsion Proof), Old Colony bldg, Chicago, Ill.

## 9807— Roofing (Cork)

Stowell Mfg. Co., Jersey City, N. J.

## 9809—Roofing (Corrugated Iron, Asbestos Coated)

HYNDMAN ROOFING CO., 318 E 2d, Cincinnati, O. (See adv. index, end of book)

## Roofing Duck

(See Cotton Duck & Canvas)

## 9810— Roofing (Elaterite)

Western Elaterite Roofing Co., Denver, Colo.

## 9811— Roofing (Feldspar)

Keystone Roofing Co. ("Samson"), York, Pa.
Stowell Mfg. Co., Jersey City, N. J.

## 9812—Roofing (Ferroinclave)

BROWN HOISTING MACHINERY Co. (Fire-Proof), Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)

## 9813— Roofing (Flintkote)

Bird, J. A. & W. & Co., Boston, Mass.

## 9814— Roofing (Granite)

Eastern Granite Roofing Co., 19 Battery pl, New York

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## 9814a—Roofing ("Imperial")

**WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)**

## 9815— Roofing (Mastic)

National Roofing Materials Co., Edwardsville, Ill.

## 9816— Roofing Materials

(See Specific Article Required)

## 9817—Roofing Materials (Asphalt)

(See Asphalt Dealers & Importers; also Asphalt Miners & Refiners; also Roofing, Asphalt)

## 9818— Roofing (Paroid)

Bird, F. W. & Son, East Walpole, Mass.

## Roofing Plate, Metals, Etc.

(See Tin Plate, Metals, Etc.; also Tin Plate Manufacturers)

## 9819—Roofing (Red Rope)

Keystone Roofing Co. ("Keystone", Conewago"), York, Pa.

## 9819a— Roofing (Rexoid)

Stowell Mfg. Co., Jersey City, N. J.

## 9820— Roofing (Rubber)

American Asphaltum & Rubber Co. ("Parlette"), Harvester bldg, Chicago, Ill.

**BURTON, W. J. CO., 161 W Congress,** Detroit, Mich. (See adv. index, end of book)

Chatfield & Woods Co., Cincinnati, O.

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Ford Mfg. Co. ("Ford's Galvanized"), 2339 La Salle, Chicago, Ill.

General Roofing Co., East St. Louis, Ill.

Heppes Co. ("No Tar"), 2427 Fulton, Chicago, Ill.

Keystone Roofing Co. ("X-L-Oid"), York, Pa.

Lincoln Waterproof Cloth Co. ("Compo," "Lythoid"), Boundbrook, N. J.

McHenry-Millhouse Mfg. Co. ("Veribest"), South Bend, Ind.

National Roofing Materials Co. ("National"), Edwardsville, Ill.

O'Meara, Maurice, Co. ("Perfect"), 448 Pearl, New York

Patent Vulcanite Roofing Co. ("Vulcanite"), 1288 S Campbell av, Chicago, Ill.

Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.

Sall Mountain Asbestos Mfg. Co. ("Reliance," "Milko"), 234 La Salle, Chicago, Ill.

Scott Roofing & Mfg. Co. ("Scott's"), 408 Culvert, Cincinnati, O.

Standard Paint Co. ("Rubberoid"), 100 William, New York

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

Union Paper & Twine Co. (of Michigan), ("Leatheroid"), Detroit, Mich.

Union Paper & Twine Co. ("Leatheroid"), Cleveland, O.

Union Roofing & Mfg. Co. (Asphalt Felt Smooth Surfaced), St. Paul, Minn.

## 9820a—Roofing ("Silicoat")

**WATSON, H. F. CO. (Asphalt Sanded Coated), Erie, Pa. (See adv. index & branch offices, end of book)**

## 9821—Roofing Slate (Asbestos)

Asbestos Shingle, Slate & Sheathing Co. ("Century"), Ambler, Pa.

## 9821a—Roofing Slate ("Eureka" Slate)

**EUREKA SLATE QUARRIES, Fair** Haven, Vt. (See adv. index, end of book)

## 9822—Roofing Slate Mfrs.

NOTE—(Slate quarried in Maine is all black, ditto Virginia, while that quarried in Pennsylvania & Maryland is also black, but borders on dark blue, & is advertised by some firms as dark blue. Slate quarried in New York is red of various tints, while that quarried in Vermont is of various colors, such as green, purple, variegated, etc.)

### ARKANSAS.

SLATINGTON—Southwestern Slate Co. (See Chicago, Ill.)

### GEORGIA.

ROCKMART—Black Diamond Slate Co.
Rockmart Slate Co.

### ILLINOIS.

CHICAGO—Southwestern Slate Co., 140 Dearborn. Quarries, Slatington, Ark.

### MAINE.

BROWNVILLE—Brownville Maine Slate Co. (See Worcester, Mass.)
Merrill Brownville Slate Co.

MONSON—Maine Slate Co. (of Monson)
Monson Maine Slate Co. (See Boston, Mass.)

PORTLAND—Portland Monson Slate Co.

### MARYLAND.

(The slate quarries of this State are on the Penna. State line, & the P. O. address is Delta, Pa.)

### MASSACHUSETTS.

BOSTON—Mathews Slate Co.
Monson Maine Slate Co. (Unfading Black), 113 Devonshire; Quarries at Monson.

WORCESTER—Algonquin Red Slate Co. Me. Brownville Maine Slate Co.

### NEW YORK.

GRANVILLE—Algonquin Red Slate Co. (See Worcester, Mass.)
American Sea Green Slate Co.
Culbertson, Samuel F.
Edward Slate Co.
Granville Slate Co.
Hughes, W. H. Co.
Norton Bros.
O'Brien Bros.
Owens, Owen W. Sons
Rice Bros.
Sheldon, F. C.
Vermont Slate Co. (Inc.) (See Zanesville, Ohio)
Williams, R. J. Slate Co.

MIDDLE GRANVILLE—(See also Granville)
Penrhyn Slate Co.

NEW YORK—Galt, John & Sons, 1133 B'way
Johnson, E. J. Co. (Dealers), 38 Park row
Penrhyn Slate Co., 255 E 138th
Slatington Slate Co., 70 Wall
Wells, Arthur, 1123 B'way

### OHIO.

CLEVELAND—Auld & Conger Co., 942 Prospect. Quarries at Bangor, Me., & Poultney, Vt

COLUMBUS—Columbus Slate Co. (Wholesale)

ZANESVILLE—Vermont Slate Co. (Quarries, Granville, N. Y.)

### PENNSYLVANIA.

BANGOR—Albion Vein Slate Co.
American Slate Co. (See Easton, Pa.)
Auld, Conger & Co. Office, Cleveland, O.
Bangor Crescent Slate Co.
Bangor Excelsior Slate Co. Office, Easton, Pa.
Bangor Slate Mining Co.
Bangor Peerless Slate Co.
Bangor Slate Mining Co.
Bangor Washington Slate Co.
Belmont Slate Co.
Columbia Bangor Slate Co.
Hamman Structural & Roofing Slate Co.
Hercules Slate Co.
Keenan Structural Slate Co. (See Easton, Pa.)
Moyer, J. S. & Co. (See Bethlehem, Pa.)
North Bangor Slate Co.
Pen-Bangor Slate Co.
Pittsburg Slate Co. (of Pittsburg)
Schaeffer, R. F.
Schoonover, R. P. & Co.
Stoddard, D. & Son
Woodley Slate Co.

BETHLEHEM—Chapman Slate Co.
Moyer, J. S. & Co. (Inc.)

CHAPMAN QUARRIES — Chapman Slate Co. (See Bethlehem, Pa.)
Chapman Standard Slate Co.
Keystone Slate Co.

DANIELSVILLE—Hower, Jeremiah K.
Lobb, Perry & Co.
Montgomery Slate Co.

DELTA—Jones, Robt. L. Slate Mfg. Co.
Miles Peach Bottom Slate Co.
Peach Bottom Slate Co.
Peerless Slate Co.
Proctor Slate Co.
United Peach Bottom Slate Co.

EAST BANGOR—Bray, J. & Co (Dealers)
East Bangor Consolidated Slate Co.

EASTON—American Slate Co.
Bangor Excelsior Slate Co.
Genuine Bangor Slate Co.
Keenan Structural Slate Co.
Penna. Hard Vein Slate Co.

LANCASTER—Peach Bottom Roofing Slate Co.

LYNNPORT—New York Standard Slate Works
Ontalaunee Slate Mfg. Co.

MAUCH CHUNK—Mauch Chunk Slate Co.

NAZARETH—Belfast Slate Co.

PEN ARGYL—Bangor Hardy Slate Co.
Crown Slate Co.
Excelsior Slate Co.
Grand Central Slate Co.
Harding, William & Co.
Inlaid Slate Co.
Jackson Bangor Slate Co.
Jackson, Richard Slate Co.
Kitto, C. & Co.
Kress, J. M. & Co.
Parsons Bros. Slate Co.
Pen Argyl Valley Slate Co.
Stephens, Jackson Co.
Stoddard, D. & Son. (See Bangor, Pa.)
Tinsman, M. L. & Co.

PHILADELPHIA—Emack, Jno. D. (Jobber), Stephen Girard bldg
Kimes, J. B. & Co. (Jobbers), 1822 Filbert

PITTSBURG—Pittsburg Slate Co., 714 Jackson, N. S.

PITTSON—Pittston Slate Co.

SLATEDALE—Bittner Slate Co. (See Allentown, Pa.)
Highland Slate Co.
Royal Blue Slate Co.
Thomas Slate Co.

SLATEFORD—Snowden-Bangor Slate Co.

SLATE HILL—Jones, Faulk & Sons

SLATINGTON—Atlas Slate Co.
Blue Mountain Slate Co.
Blue Valley Slate Mfg. Co.
Cambridge Slate Co.
Carbon Slate Co.
Columbia Slate Co.
Crescent Slate Co.
Empire Slate Co.
Eureka Slate Mfg. Co.
Fairview Slate Co.
Franklin Slate Co.
Griffith Bros. Slate Co.
Hazle Dell Slate Co.
Hower, J. K.
International Slate Co.
Lehigh Structural Slate Mfg. Co.
Mauch Chunk Slate Co.
Meadow Brook Slate Co.
Miller, O. A. Slate Co.
Monarch Blackboard & Structural Slate Co.
Penna. Slate Co.
Peters, E. D. & Sons
Pittston Slate Co.
Provident Slate Co.
Prudential Slate Co.
Roberts, M. J. & Co.

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Sieger, Henry N. & Son (Jobbers)
Slatington-Bangor Slate Syndicate
Slatington Slate Co.
Star Slate Co.
Unger, Jno. F. Slate Co.
Washington Slate Co.
Williams, Owen T. & Son
Zellner, Thos.

WALNUTPORT—Finn, Ezra & Sons
Hahn, Granville

WILKES-BARRE—Henry Slate Co.
Jones, Owen D. Quarries

WIND GAP—Blue Mountain Slate Co.
Pelican Slate Mfg. Co., Office: Pottstown, Pa.
Phoenix Slate Co.

## VERMONT.

CASTLETON—Jones, John Slate Co.

FAIR HAVEN—Allen's, S. Sons
Coulman & Wescott
Durrick, Keenan & Co. (Ltd.)
Eastern Slate Co.
**EUREKA SLATE QUARRIES.** (See adv. index, end of book)
Fair Haven Marble & Marbilized Slate Co.
Hogan D. & Son
Lloyd, W. H.
McNamora Bros.
Scotch Hill Slate Co.
Vermont Unfading Green Slate Co.
Young, A. B.

NORTHFIELD—Northfield Slate Co.
Vermont Black Slate Co.

POULTNEY—Auld & Conger Co. (See Cleveland, O.)
Green Mountain Slate Co.
Griffith & Nathaniel
Hughes-Snyder Slate Co.
Jones & Roberts
Matthews Slate Co. (See Boston, Mass.)
New York Consolidated Slate Co.
Parry, Jones & Owens
Roberts & Rowland

WEST PAWLET—Beecher Slate Co.
Rising & Nelson Slate Co.
Roberts, G. T.

## VIRGINIA.

ARVONIA—Arvonia Slate Co. (Office, Lynchburg, Va.)
Buckingham Slate Co.
Pitts, A. L.
Richmond Slate Co. (See Richmond, Va.)
Williams Slate Co. (See Richmond, Va.)

ESMONT—Standarad Slate Corporation. (See Norfolk, Va.)

LYNCHBURG—Arvonia Slate Co. Quarries, Arvonia, Va.

NORFOLK—Standard Slate Corporation (Blue-Black, Green & Shaded Green). Quarries, Esmont, Va.

RICHMOND—Arvonia Slate Co., Quarries at Arovnia, Va.
Richmond Slate Co. (Quarries, Arvonia, Va.)
Williams Slate Co. (Quarries, Arvonia, Va.)

SNOWDEN—Williams Bros. Slate Co.

## 9823—Roofing Slate (Purple)

Columbus Slate Co., Columbus, O.
Edwards Slate Co., Granville, N. Y.
Galt, John & Sons (Jobbers), 1133 B'way, New York, & 95 Washington, Chicago, Ill.
Griffith & Nathaniel, Poultney, Vt.
Hughes, Wm. H. Co., Granville, N. Y.
Lloyd, W. H., Fair Haven, Vt.
Penrhyn Slate Co., 255 E 138th, New York
Vermont Unfading Green Slate Co., Fair Haven, Vt.

## 9824—Roofing Slate (Red)

Columbus Slate Co., Columbus, O.
Edwards Slate Co., Granville, N. Y.
Galt, John & Sons, 1133 B'way, New York, & 95 Washington, Chicago, Ill.
Hughes, Wm. H. Co., Granville, Pa.
Mathews Slate Co., Boston, Mass.
Norton Bros., Granville, N. Y.
Penrhyn Slate Co., 255 E 138th, New York

## 9825—Roofing Slate (Sea Green)

American Sea Green Slate Co., Granville, N. Y.
Auld & Conger, Cleveland, O.
Beecher Slate Co., West Pawlet, Vt.
Columbus Slate Co., Columbus, O.
Edwards Slate Co., Granville, N. Y.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Galt, John & Sons, 1133 B'way, New York, & 95 Washington, Chicago, Ill.
Griffith & Nathaniel, Poultney, Vt.
Hughes, Wm. H. Co., Granville, N. Y.
Mathews Slate Co., Boston, Mass.
Norton Bros., Granville, N. Y.
Owens', Owen W., Sons, Granville, N. Y.
Penrhyn Slate Co., 255 E 138th, New York
Rising & Nelson Slate Co., West Pawlet, Vt.
Slatington-Bangor Slate Syndicate, Slatington, Pa.
Vermont Slate Co. (Inc.), Granville, N. Y.

## 9826—Roofing Slate (Unfading Green)

Auld & Conger Co., Cleveland, O.
**EUREKA SLATE QUARRIES,** Fair Haven, Vt. (See adv. index, end of book)
Galt, John & Sons (Jobbers), 1133 B'way, New York, & 95 Washington, Chicago, Ill.
Lloyd, W. H., Fair Haven, Vt.
Poultney Consolidated Slate Co., Poultney, Vt.
Standard Slate Corporation, Norfolk, Va.
Vermont Slate Co., Granville, N. Y.
Vermont Unfading Green Slate Co., Fair Haven, Vt.

## 9826a—Roofing, Smooth Finish (Asphalt)

**BURTON, W. J. CO.,** 161 W. Congress, Detroit, Mich. (See adv. index, end of book)

## 9827—Roofing ("Texaco")

Texas Company, 17 Battery pl, New York

## 9828—Roofing Tile (Actinolite)

Le Goullon, P., 614 Bessemer bldg, Pittsburg, Pa.
Powell, M. W. Co., 204 Dearborn, Chicago, Ill.

## 9829—Roofing Tile (Asphalt)

Commonwealth Roofing Co. ("Economite" Flexible & Made Entirely of Fire, Water & Frost Proof Bituminous Materials), 17 Battery pl, New York

## 9830—Roofing Tile (Cement)

American Cement Tile Mfg. Co. ("Bonanza" for Factories, Depots, etc.), Wampum, Pa.
Anderson & Veatch (Concrete), Evansville, Ind.
Commonwealth Roofing Co. ("Durolite"), 17 Battery pl, New York


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NEW YORK, N. Y., Madison Square Building
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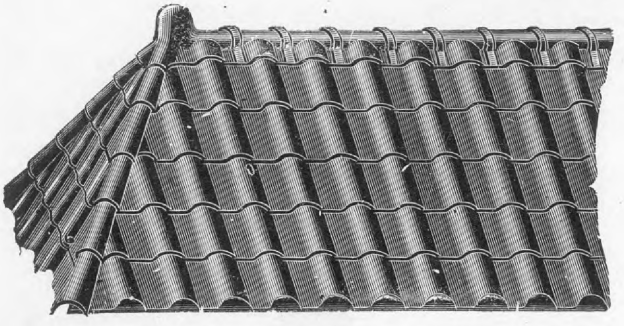

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ESTABLISHED 1891

## For Buyers and Sellers

PUBLISHED ANNUALLY BY

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Creviston, T. J. & Co., East Liberty, O.
Federal Cement Tile Co., Fort Dearborn bldg, Chicago, Ill. Works: Hammond, Ind.
Perth Amboy Cement & Stone Roofing Tile Co. (Any Color), Perth Amboy, N. J.
Reinforced Tile Roof Co. (For Factories, Shops, Car Barns, etc.), Youngstown, O.

## 9831—Roofing Tile (Glass)

National Roofing Tile Co., Lima, O.

## 9832—Roofing Tile (Metallic)

(See also Shingles, Metallic)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W Congress, Detroit, Mich.** (See adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
**NATIONAL SHEET METAL ROOFING Co. ("Walter's"), 339 Grand, Jersey City, N. J.** (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

## 9833—Roofing Tile (Metallic, Spanish Shapes)

**BERGER MFG. CO., THE, Canton, O.** (See adv. index & branch offices, end of book)
**EDWARDS MFG. CO. ("Edwards"),** 545-565 Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Meurer Bros. Co., 575 Flushing av, Brooklyn, **N. Y.**
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co. ("Edwards"), 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co. ("Edwards"), 408 Culvert, Cincinnati, O.
Souther, E. E. Iron Co., St. Louis, Mo.

## 9834—Roofing Tile (Promenade)

**AKRON ROOFING TILE CO., Akron, O.** (See adv. index & branch offices, end of book)
Cincinnati Roof Tile & Terra Cotta Co., Cincinnati, O.
**LUDOWICI-CELADON CO. ("Ludowici-Celadon"),** Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9835—Roofing Tile (Reinforced)

American Cement Tile Mfg. Co. ("Bonanza"), Wampum, Pa.
Reinforced Tile Roof Co., Youngstown, O.

## 9836—Roofing Tile (Roman Grecian)

**AKRON ROOFING TILE CO., Akron, O.** (See adv. index & branch offices, end of book)

## 9837—Roofing Tile (Terra Cotta)

**AKRON ROOFING TILE CO., Akron, O.** (See adv. index & branch offices, end of book)
Alfred Clay Co. ("Regal"), Alfred, N. Y.
Camp Conduit Co. (6x9 Tile), Cleveland, O.
Cincinnati Roof Tile & Terra Cotta Co., Cincinnati, O.
Clark, N. & Sons, 116 Natoma, San Francisco,
Detroit Roofing Tile Co., Detroit, Mich. Cal.
Fiske & Co. (Inc.) (Agents), 25 Arch, Boston, Mass., & Flatiron blg, New York
Gladding, McBean & Co., San Francisco, Cal. Works: Lincoln, Cal.
Huntington Roofing & Tile Co. (Shingle Tile), Huntington, W. Va.
Los Angeles Pressed Brick Co. (Impervious), Los Angeles, Calif.
**LUDOWICI-CELADON CO. ("Ludowici-Celadon"),** Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg. Phila., Pa. Works: Maurer, N. J. (See adv. Front Inside Cover)
Mound City Roofing Tile Co., St. Louis, Mo.
Murray Roofing Tile Co. (Flat Shingles & Tile), Cloverport, Ky.
National Roofing Tile Co. ("Klay" Double Interlocking), Lima, O.
Ohio Brick & Tile Works (Single & Interlocking), Ottawa, O.
Person & Co. ("Akron"), 160 5th av, New York
Thomas, E. H. (Mfrs. Agent), 1123 B'way, New York

## 9838—Roofing Tile (Terra Cotta, Glazed)

**AKRON ROOFING TILE CO., Akron, O.** (See adv. index & branch offices, end of book)
Cincinnati Roof Tile & Terra Cotta Co., Cincinnati, O.
National Roofing Tile Co., Lima, O.

## 9839—Roofing Tile (Terra Cotta, Graduated)

**AKRON ROOFING TILE CO., Akron, O.** (See adv. index & branch offices, end of book)
Cincinnati Roof Tile & Terra Cotta Co., Cincinnati, O.
**LUDOWICI-CELADON CO. ("Ludowici-Celadon"),** Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Person & Co. ("Akron"), 160 5th av, New York**

## 9840—Roofing Tile (Terra Cotta, Spanish Shapes)

**AKRON ROOFING TILE CO., Akron, O.** (See adv. index & branch offices, end of book)
Cincinnati Roofing Tile & Terra Cotta Co. (Vitrified), Cincinnati, O.
Los Angeles Pressed Brick Co., Los Angeles, Cal.
**LUDOWICI-CELADON CO. ("Ludowici-Celadon"),** Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Person & Co. (Akron Tile), 160 5th av, New York

## 9841—Roofing Tin in Rolls

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
**MERCHANT & EVANS CO. (Inc.), 517 Arch., Phila., Pa.** (See adv. index & branch offices, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.**

## 9842— Roofing Tin Mfrs.

(See also Tin Plate Manufacturers)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## 9843—Roofing & Siding (Iron & Steel)

(Star (*) Indicates Rolling Mills)
(See also Iron & Steel, Corrugated)

***AMERICAN ROLLING MILL CO.,** Middletown, O. (See adv. index & branch offices, end of book)
*American Sheet & Tin Plate Co., Frick bldg, Pittsburg, Pa.
American Steel & Tube Co., Lorain, O.
***BERGER MFG. CO., THE, Main Office & Works, Canton, O.** (See adv. index & branch offices, end of book)
**BURTON, W. J. CO., 161 W Congress, Detroit, Mich.** (See adv. index, end of book)
Cambridge Roofing Co., Cambridge, O.
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
*Carter Iron Co., Pittsburg, Pa.
Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.
**Cincinnati Sheet Metal & Roofing Co. ("Magnet" Brand), Cincinnati, O.**
Columbia Steel Tank Co. (Corrugated), Kansas City, Mo.
*De Forest Sheet & Tin Plate Co., Niles, O.
**Dickelman Mfg. Co., Forest, O.**
Duluth Corrugating & Roofing Co., **Duluth, Minn.**
East Birmingham Iron Roofing & Corrugating Co., Birmingham, Ala.
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
**Eller Mfg. Co., Canton, O.**
*Empire Iron & Steel Co., Niles, O.
*Follansbee Bros. Co., Pittsburg, Pa.
**Fostoria Steel Roofing Co., Fostoria, O.**
Garry Iron & Steel Co., Niles, O.
**Gedge Bros. Iron Roofing Co., Anderson, Ind.**
**Globe Iron Roofing & Corrugating Co., Newport, Ky.**
**GOFF, HORNER & CO. (Ltd.), (V** Crimped & Pressed Standing Seam Roofing, Beaded Ceiling & Siding, etc.). Offices: Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
**Harry, O. K. Steel Wks., Dallas, Texas.**
**HYNDMAN ROOFING CO. (Corrugated Iron, Asbestos Lined), 318 E 2d, Cincinnati, O.** (See adv. index, end of book)
**Indianapolis Corrugating Co., Indianapolis. Ind.**
*Inland Steel Co. (Open Hearth Steel Only), 1st Nat'l B'k bldg, Chicago, Ill.
**Internal Steel & Iron Construction Co., Evansville, Ind.**
*Job Iron & Steel Co. (Plain & Corrugated), Ashland, Ky.
Kanneberg Roofing & Ceiling Co., Canton, O.
**Klauer Mfg. Co., Dubuque, Ia.**

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Goff, Horner Co., Ltd., Offices: Oliver Bldg., Pittsburgh, Pa.

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**KRATZER, W. N. & CO., 321S Smallman**, Pittsburg, Pa. (See adv. index, end of book)
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**MILWAUKEE CORRUGATING CO.**, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Moeschl-Edwards Corrugating Co., Covington, Ky.
Nelson, A. J. Mfg. Co., New Orleans, La.
New England Steel Roofing Co., Worcester, Mass.
*Newport Rolling Mill Co. (Genuine Open Hearth, Rust Resisting Iron, Black & Galvanized), Newport, Ky.
N. Y. Iron Roofing & Corrugating Co., Jersey City, N. J.
New York Metal Ceiling Co., 537 W 24th, New York
Niles Iron & Steel Roofing Co., Niles, O.
Ohio Galvanizing & Mfg. Co. (Steel Only), Niles, Ohio
Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Philadelphia, Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
*Seneca Iron & Steel Co., Buffalo, N. Y.
Sheet Metal Mfg. Co., Niles, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Southern Roofing Co., Atlanta, Ga.
Steel Roofing & Stamping Wks., Des Moines, Ia.
Sykes Metal Lath & Roofing Co., Niles, O.
*Thomas Steel Co. (Galvanized Roofing & Ridge Rolls), Niles, O.
Tiffin Art Metal Co., Tiffin, O.
Twichell Iron Co., Kansas City, Mo.
*Wheeling Corrugating Co., Wheeling, W. Va.
*Youngstown Iron & Steel Co., Youngstown, O.
*Youngstown Sheet & Tube Co. (Puddled Iron Sheets a Specialty), Youngstown, O.

## 9844–Roofing & Siding (Toncan Metal)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)

## 9844a–Rope (Canal & Tow Lines)

**COLUMBIAN ROPE CO. (Manila)**, Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)

## Rope (Cast Steel Switching)

(See Rope, Steel Switching & Wrecking)

## 9845– Rope (Cotton)

(See also Cordage & Twine Manufacturers)

American Mfg. Co. (Hemp Clothes Lines), 63 Wall, New York.
Boscawan Mills (Inc.), Penacook, N. H.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Charlotte Cordage Co. (Clothes Line), Charlotte, N. C.
Cleveland Mill & Power Co. (Clothes Line, etc.), Lawndale, N. C.
Consolidated Cotton Duck Co., Baltimore, Md.
Darrow, A. R. (Clothes Lines, etc.), New London, Conn.
Elder, Jas., 230 W Penn, Gtn, Phila., Pa.
Estes Mills, Inc., Fall River, Mass.
Goss Bros., Fall River, Mass.
Holden, Jas., Fall River, Mass.
Hooper Sons Mfg. Co., 509 Arch, Phila., Pa.
Hooper, Wm. E. & Sons Co., Baltimore, Md.
Lambeth Rope Corp'n (Transmission, etc.), New Bedford, Mass.
Laural Cotton Mills, Laural, Miss.
Little River Mfg. Co., Willardville, N. C.
Overman & Schrader Cordage Co. (Clothes Lines, etc.), Covington, Ky.
**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
Small Bros., Fall River, Mass.
Toohey, M. J. & Co., Fall River, Mass.
Tucker & Carter Rope Co. ("T. & C." Brand, All Thread), 76 South, New York

## 9846– Rope (Flat Wire)

**AMERICAN STEEL & WIRE CO.** (Crucible Cast Steel), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 9847–Rope (Haulage & Transmission)

(See Rope, Steel Switching & Wrecking; also Wire Rope & Cables; also Rope, Manila & Sisal)

## 9848– Rope (Hay)

American Mfg. Co., 63 Wall, New York.
**COLUMBIAN ROPE CO., Auburn.** N. Y., & 62 South, New York. (See adv. index, end of book)
Hooven & Allison Co., Xenia, O.
Kelly, R. A. Co., Xenia, Ohio
Ludlow Mfg. Associates, Boston, Mass.
**NEW YORK CORDAGE CO. ("Nycord")**, 85 Wall, New York. (See adv. index, end of book)
Overman & Schrader Cordage Co., Covington, Ky.
Rugg, E. T. & Co., Newark, O.
Tucker & Carter Rope Co., 76 South, New York
Wall Rope Works, 56 South, New York

## 9849– Rope (Hemp)

American Mfg. Co., 63 Wall, New York
**BRODERICK & BASCOM ROPE CO.**, 809 N Main St., St. Louis, Mo. (See adv. index & branch offices, end of book)
**COLUMBIAN ROPE CO., Auburn.** N. Y., & 62 South, New York. (See adv. index, end of book)
Hooven & Allison Co., Xenia, O.
**LESCHEN, A. & SONS ROPE CO.**, 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**NEW YORK CORDAGE CO. ("Nycord")**, 85 Wall, New York. (See adv. index, end of book)
Tucker & Carter Rope Co., 76 South, New York

## 9849a– Rope (Hide)

**NEW YORK CORDAGE CO. ("Nycord")**, 85 Wall, New York. (See adv. index, end of book)

## 9850– Rope (Jute)

American Mfg. Co., 63 Wall, New York
**CARPENTER, GEO. B. & CO., 202 S** Wate, Chicago, Ill. (See adv. index, end of book)
Chelsea Fibre Mills, 33 Union Sq. W, New York
**COLUMBIAN ROPE CO., Auburn.** N. Y., & 62 South, New York. (See adv. index, end of book)
Dolphin Jute Mills, Paterson, N. J.
Hooven & Allison Co., Xenia, O.
Jackson, Thos. & Son, Reading, Pa.
Jacobs Cordage Co., Cincinnati, O.
**NEW YORK CORDAGE CO. ("Nycord")**, 85 Wall, New York. (See adv. index, end of book)
Overman & Schrader Cordage Co., Covington Ky.
Planet Mills Mfg. Co., 335 Carroll, Brooklyn, N. Y.
Schlichter Jute Cordage Co., 20 N Front, Phila., Pa.
Tucker & Carter Rope Co., 76 South, New York

## 9851–Rope (Locked Coil & Locked Wire)

**BRODERICK & BASCOM ROPE CO.**, 809 N Main St., St. Louis, Mo. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO.**, 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## 9851a–Rope (Manila Switch)

(See Rope, Manila Transmission)

## 9852–Rope (Manila Transmission)

American Mfg. Co., 63 Wall, New York
**BRODERICK & BASCOM ROPE CO.**, 809 N Main St., St. Louis, Mo. (See adv. index & branch offices, end of book)
**CARPENTER, GEO. B. & CO. ("Old Colony")**, 202 S Water, Chicago, Ill. (See adv. index, end of book)
**COLUMBIAN ROPE CO., Auburn.** N. Y., & 62 South, New York. (See adv. index, end of book)
Fitler, Edwin H. ("Ajax"), 22 N Dearborn av, Phila., Pa.
Hooven & Allison Co., Xenia, O.
Kelly, R. A., Co., Xenia, O.
Lambeth Rope Corpn. (Cotton), New Bedford, Mass.
**LESCHEN, A. & SONS ROPE CO.**, 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**NEW YORK CORDAGE CO. ("Nycord" Weather-Proofed, etc.)**, 815 Wall, New York. (See adv. index, end of book)
Plymouth Cordage Co., North Plymouth, Mass.
Portland Cordage Co., Portland, Ore.
St. Louis Cordage Co., St. Louis, Mo.
Tubbs Cordage Co., San Francisco, Cal.
Tucker & Carter Rope Co., 76 South, New York
Whitlock Cordage Co., 46 South, New York

## 9853–Rope (Manila & Sisal)

American Mfg. Co., 63 Wall, New York.
Boehme & Rauch Cordage Co., Monroe, Mich.
**BRODERICK & BASCOM ROPE CO.**, 809 N Main St., St. Louis, Mo. (See adv. index & branch offices, end of book)
**CARPENTER, GEO. B. & CO., 202 S.** Water, Chicago, Ill. (See adv. index, end of book)
**COLUMBIAN ROPE CO., Auburn. N. Y.** Transmission, Hoisting, Bale, Hay & Hide Rope; also Jute & Hemp Rope, etc.), Auburn, N. Y. (See adv. index, end of book)
De Grauw, Aymar & Co., 35 South, New York
Fitler, Edw. H. Co., 22 N Delaware av, Phila., Pa.
Fricke, J. E. Co., 253 Market, Phila., Pa.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Hooven & Allison Co., Xenia, O.
Hunt, C. W. Co. (Stevedore), West New Brighton, S. I., N. Y.
Jackson, Thos. & Son (Also Jute), Reading, Pa.
Jacobs Cordage Co., Cincinnati, O.
Kelly, R. A. Co., Xenia, O.
**LESCHEN, A. & SONS ROPE CO.**, 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Ludlow Mfg. Associates, Boston, Mass.
**MACOMBER & WHYTE ROPE CO.**, 507 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)
**NEW YORK CORDAGE CO. ("Nycord" Sisol)**, 85 Wall, New York. (See adv. index, end of book)
Overman & Schrader Cordage Co., Covington, Ky.
Peoria Cordage Co., Peoria, Ill.
Planet Mills Mfg. Co. (Jute Rope), 335 Carroll, Brooklyn, N. Y.
Plymouth Cordage Co., N. Plymouth, Mass.
Portland Cordage Co. (Trade Mark "P"), Portland, Ore.
Rinek Cordage Co., Easton, Pa.
Rugg, E. T. & Co., Newark, O.
St. Louis Cordage Co., St. Louis, Mo.
Standard Cordage Co. (Walk Laid Rope a Specialty), 45 South, New York
Tubbs Cordage Co., San Francisco, Cal.
Tucker & Carter Rope Co., 76 South, New York
Wall Rope Works, 56 South, New York
**WALSH'S SONS & CO., Harrison, N. J.** (See adv. index, end of book)
Waterbury Co. (Inc.), 80 South, New York
Whitlock Cordage Co., 46 South, New York

## 9854– Rope (Rawhide)

Chicago Rawhide Mfg. Co., 1301 Elston rd, Chicago, Ill.
National Rawhide & Belting Co., Niles, Mich.
Western Rawhide & Belting Co., Milwaukee, Wis.

## 9855–Rope Rigging (Yacht)

**BRODERICK & BASCOM ROPE CO.**, 809 N Main St., St. Louis, Mo. (See adv. index & branch offices, end of book)
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
**COLUMBIAN ROPE CO., Auburn.** N. Y., & 62 South, New York. (See adv. index, end of book)
**NEW YORK CORDAGE CO. ("Nycord")**, 85 Wall, New York. (See adv. index, end of book)

## 9855a–Rope (Steel Mast Arm or Arc Light)

**AMERICAN STEEL & WIRE CO.**, Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

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BENJAMIN CARPENTER

HUBBARD CARPENTER
JOHN A. CARPENTER

Established 1840

# GEO. B. CARPENTER & CO.

Manufacturers and Mill Agents

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Derricks Hoisting Machinery
Hose Belting Packing
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**BRODERICK & BASCOM ROPE CO.,** 809 N Main St., St. Louis, Mo. (See adv. index & branch offices, end of book)

## 9856—Rope (Steel Switching & Wrecking)

**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
**CARPENTER, GEO. B. & CO., 202 S.** Water, Chicago, Ill. (See adv. index, end of book)
Hazard Mfg. Co. (Locomotive Cast Steel), Wilkesbarre, Pa., & 50 Dey, New York
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**MACOMBER & WHYTE ROPE CO.,** 507 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Trenton Iron Co. (Patented), Trenton, N. J., & 30 Church, New York
**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

## Rope (Tarred)

(See Yarn, Tarred)

## 9857— Rope (Tiller)

**SAMSON CORDAGE WORKS (Wire Center),** 88 Broad, Boston, Mass. (See adv. index, end of book)

## 9858—Rope (Transmission, Cotton, Wire Center)

**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)

## Rope (Wire)

(See Wire Rope & Cable Manufacturers)

## 9859— Ropes (Plow, Steel)

**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
Hazard Mfg. Co. (Cast Steel & Plough Steel. Flat Rope), Wilkes-Barre, Pa.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Trenton Iron Co. (Patented), Trenton, N. J., & 30 Church, New York

## 9860— Rosettes (Electric)

Crouse, Hinds Co. ("Norbitt" Porcelain), Syracuse, N. Y.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hart Mfg. Co., Hartford, Conn.
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Pass & Seymour, Inc., Solvay, N. Y.
Sears, Henry D., 131 State, Boston, Mass.
Trumbull Electric Co., Plainville, O.

## 9861—Rosettes & Pickets (Iron)

Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

## 9862—Rosettes & Pickets (Steel)

**BRAUN, J. G., 615 S Paulina, Chicago,** Ill., & 537 W 35th, New York. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 9863— Rosin Mfrs.

Adams, F. C. (Mfrs. Agt.), 702 W Division, Chicago, Ill.
American Naval Stores Co. of New York, 21 State, New York
Carolina Pine Products Co., Cleveland, O.
Martin, W. A. & Co., Wilmington, N. C.
New York Rosin Oil & Varnish Co. (Rosin Oil & Products), 82 Beaver, New York
Peninsular Naval Stores Co., Jacksonville, Fla.
Scheel, Wm. H. (Chemically Treated), 159 Maiden la, New York
Stevens, Frederic B. (Powdered, etc.), Detroit, Mich.

## 9863a—Rotary Kiln Shapes (Cement Mill)

**HARBISON-WALKER REFRACTORIES** Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York. (See adv. index & branch offices, end of book)

## 9864—Rotary Rapper for Bench Molders

Fulton Foundry & Machine Co., 25 Furman. Brooklyn, N. Y.

## Rotten-Stone

(See Pumice Stone Importers)

## Rouge

(See Compositions, Buffing)

## 9864a—Round House Smoke Jacks (Fire Clay)

Streator Clay Mfg. Co., Streator, Ill.

## 9865— Row-Locks

Laughlin, Thos. Co., Portland, Me.
Malleable Iron Fitting Co. ("Davis" Pattern), Branford, Conn.
Morss, A. S. Co., Boston, Mass.
Tiebout, W. J., 118 Chambers, New York
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co. ("Adirondack." "Davis," "Acme," etc.), Middletown, Conn.

## 9866—Rubber Bumpers & Cushions

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Federal Rubber Co., Cudahy, Wis.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Mansfield Rubber Co., Mansfield, O.
Morgan & Wright (Inc.), Detroit, Mich.
**NEW YORK RUBBER CO., Reade & Church,** New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Springfield Tire & Rubber Co., Springfield, O
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 9867— Rubber Flux

Massachusetts Chemical Co., Walpole, Mass

## 9868—Rubber Goods (Druggists' & Surgical)

American Hard Rubber Co., 9 Mercer, New York
Bailey, C. J. & Co., Boston, Mass.
Canton Rubber Co. (Seamless Rubber Goods), Canton, O.
Cleveland Rubber Wks., Cleveland, O.
Davidson Rubber Co., Boston, Mass.
Davol Rubber Co., Providence, R. I.
Faultless Rubber Co., Ashland, O.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
Hodgman Rubber Co., 806 B'way, New York
Huron Rubber Co., Cleveland, O.
Imperial Rubber Mfg. Co., Beach City, O.
Luzerne Rubber Co., Trenton, N. J.
Massachusetts Chemical Co., Walpole, Mass.
Miller Rubber Mfg. Co., Akron, O
Morgan & Wright (Inc.), Detroit, Mich.
Myers Mfg. Co. ("Costa"), Fremont, O.
National India Rubber Co. (Druggists' Sundries), Bristol, R. I.
Parker, Stearns & Co., 286 Sheffield av, Brooklyn, N. Y.
Rubber Products Co., Barberton, O.
Rubber Stopple Co., Long Island City, N. Y.
Seamless Rubber Co., New Haven, Conn.
Star Rubber Co. (Seamless), Akron, O.
Tyler Rubber Co., Andover, Mass.

## 9868a—Rubber Goods (Hard)

(See Rubber, Hard)

## 9869—Rubber Goods (Moulded)

Acme Rubber Mfg. Co., Trenton, N. J.
B. & R. Rubber Co., North Brookfield, Mass.
**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Canfield, H. O. Co., Bridgeport, Conn.
Canfield Rubber Co., Bridgeport, Conn.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Continental Rubber Works, Erie, Pa.
Faultless Rubber Co., Ashland, O.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Laurel Rubber Co., Garfield, N. J.
Mansfield Rubber Co., Mansfield, O.
Massachusetts Chemical Co., Walpole, Mass.
Mattson Rubber Co., Lodi, N. J.
Miller Rubber Co., Akron, O.
National India Rubber Co., Bristol, R. I.
**NEW YORK RUBBER CO., Reade & Church,** New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Rubber Stopple Co., Long Island, City, N. Y.
Sayen Rubber Co., Hamilton Sq., N. J.
Schacht Rubber Mfg. Co., Huntington, Ind.
Springfield Tire & Rubber Co., Springfield, O.
Tyer Rubber Co., Andover, Mass.
Western Rubber Works, Goshen, Ind.
Whitehead Bros. Rubber Co., Trenton, N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 9870—Rubber Goods (Toilet)

Boston Woven Hose & Rubber Co. (Bath Mittens & Brushes, Finger Nail Brushes, etc.) Cambridge, Mass.

## 9871— Rubber (Hard)

American Hard Rubber Co., 9 Mercer, New York
Brooklyn Rubber Co., 397 Sumner, B'klyn, N. Y.
Canfield, H. O. Co., Bridgeport, Conn.
Consumers Rubber Co. ("Arizona." "Euclid," "Holland"), Cleveland, O.
Davidson Rubber Co. (Drug, Dental & Surgical, etc.), Boston, Mass.
Davol Rubber Co., Providence, R. I.
Day, H. P. & E. Co., Seymour, Conn.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Luzerne Rubber Co., Trenton, N. J.
Morgan & Wright, Detroit, Mich.
Progressive Rubber Co. (Hard Rubber Harness Mountings, etc.), Mineral City, O.
Siemon Hard Rubber Corp. (Electrical), Bridgeport, Conn.
Stokes, Jos. Rubber Co., Trenton, N. J.
Tyer Rubber Co., Andover, Mass.
Vulcanized Rubber Co., 488 B'way, New York
Western Rubber Works, Goshen, Ind.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 9872—Rubber Horse Shoe Pads

B. & R. Rubber Co., North Brookfield, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works (Leather Back & Canvas Back), Erie, Pa.
Dryden Hoof Pad Co., 59 Market, Chicago, Ill.
Federal Rubber Co., Cudahy, Wis.
Firestone Tire & Rubber Co., Akron, O.
Foster Rubber Co., Boston, Mass.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.

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**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Judsen, Carl A. ("Judsen", Canvas & Leather Bark), 214 W Erie, Chicago, Ill.
Laurel Rubber Co., Garfield, N. J.
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Morgan & Wright (Inc.) ("Federal", "Samson", "Chicago", "Dexter", "Pacific", "Atlantic", "Sterling", "Atlas", "National", "Ajax", "Newport", "Rambler", "Peerless Cushion," "Racing," "Carroll Road"), Detroit, Mich.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Plymouth Rubber Co., Stoughton, Mass.
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Rutherford Rubber Co. ("Sterling"), Rutherford, N. J.
Springfield Tire & Rubber Co., Springfield, O.
Victor Rubber Co. ("Victor"), Springfield, O.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Walpole Rubber Co. ("Walpole", Heel), Boston, Mass.
**WHITMAN & BARNES MFG. CO.** ("W & B"), Akron, O. (See adv. index & branch offices, end of book)

## 9873—Rubber Ice Bags & Caps

Canton Rubber Co., Canton, O.
Cleveland Rubber Co., Cleveland, O.
Davidson Rubber Co., Boston, Mass.
Davol Rubber Co., Providence, R. I.
Faultless Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
National India Rubber Co., Bristol, R. I.
Rubber Products Co., Barberton, O.
Tyer Rubber Co., Andover, Mass.

## 9874— Rubber Mfrs.

### CALIFORNIA.

ALAMEDA—Gutta Percha & Rubber Mfg. Co. (Mechanical.) (See New York City)
SAN FRANCISCO—American Rubber Mfg. Co. (Mechanical)
Bowers Rubber Works (Mechanical)
Goodyear Rubber Co. (Mechanical, Molded Oil Clothing, etc.)
Gorham Rubber Co. (Mechanical & Molded)

### CONNECTICUT.

ANSONIA—Ansonia Electrical Co. (Insulated Wires)
BEACON FALLS—Beacon Falls Rubber Shoe Co. (Footwear)
BRIDGEPORT—Canfield, H. O. Co. (Molded)
Canfield Rubber Co. (Dress Shields & Molded)
Electric Cable Co. (See New York City)
Siemon Hard Rubber Co. (Insulating Specialties)
FAIRFIELD—Fairfield Rubber Co. (Carriage Cloth, Imitation Leathers)
HARTFORD — Hartford Rubber Works Co. (Tires, Mats, Balls, etc.)
**JOHNS-PRATT CO. ("Vulcabeston," Packing, Insulation, etc.)**
MIDDLETOWN—Goodyear Rubber Co. (See New York City)
Omo Mfg. Co. (Dress Shields)
NAUGATUCK—Goodyear India Rubber Glove Mfg. Co. (See New York City)
Goodyear's Metallic Rubber Shoe Co. (Footwear), Controlled by United States Rubber Co. (See New York City)
Goodyear's Rubber Mfg. Co. (Goodyear India Rubber Glove Mfg. Co., Owners)
NEW HAVEN—Baumann Rubber Co. (Toys, Balls, Druggists' Sundries, etc.)
Candee, L. & Co. (Footwear), Branch of U. S. Rubber Co.
Seamless Rubber Co. (Druggists' Sundries)
SANDY HOOK—Fabric Fire Hose Co. (See New York City)
SEYMOUR—Day, H. P. & E. Co. (Hard Rubber Specialties)
**KERITE INSULATED WIRE &** Cable Co. (See New York City). (See adv. index, end of book)
STAMFORD—Atlantic Insulated Wire & Cable Co. (See New York City)
WALLINGFORD—New York Insulated Wire Co. (See New York City)

### DELAWARE.

WILMINGTON—Electric Hose & Rubber Co. (Rubber Hose)

### ILLINOIS.

CHICAGO—Arnstein, Eugene (Cements), 35th & Shields av
Chicago Insulated Wire Co. (Insulated Wires & Cables), 154 Lake
Mechanical Rubber Co. (Mechanical), 230 Randolph
N. Tire Rubber Sponge Co. (Rubber Sponges), 414 W Indiana
Western Electric Co. (Hard Rubber, Electrical Specialties & Insulated Wires), 500 S Clinton

### INDIANA.

ELKHART—Elkhart Rubber Works (Mechanical & Molded)
GOSHEN—Western Rubber Co. (Mechanical)
INDIANAPOLIS—G. & J. Tire Co. (Tires)
Indianapolis Rubber Co. (Mechanical)
JONESBORO—Indiana Rubber & Insulated Wire Co. (Insulated Wires & Cables, Tires & Mechanical Goods)
KOKOMO—Kokomo Rubber Co. (Tires)
MARION—Marion Insulated Wire & Rubber Co. (Insulated Wires & Cables)
MISHAWAKA—Mishawaka Woollen Mfg. Co. (Boots & Shoes)

### MASSACHUSETTS.

ANDOVER—Tyer Rubber Co. (Druggists' & Stationers' Sundries, Sporting & Molded Goods)
BOSTON—American Rubber Co. (Footwear & Clothing), Controlled by U. S. Rubber Co.
American Steam Packing Co. (Steam Packing)
Baker Rubber Cement Co. (Inc.) (Cement)
Bay State Rubber Co. (Footwear), Controlled by U. S. Rubber Co.
**BOSTON BELTING CO. (Mechani**cal, etc.). (See adv. index, end of book)
Boston Rubber Shoe Co. (Footwear), Controlled by U. S. Rubber Co.
Clifton Mfg. Co. (Rubber Tubing, Insulating Conduits & Clothing, etc.)
Columbia Rubber Co. (Waterproof Clothing)
Davidson Rubber Co. (Druggists' Sundries & Hard Rubber Goods)
Foster Rubber Co. (Heels & Shoes, Horse Shoe Pads, Crutch Tips, etc.)
Franklin Rubber Co. (Clothing)
Hale, Alfred Rubber Co. (Diving Apparatus & Molded Work)
Hauthaway, C. L. & Sons (Inc.) (Cements)
Hood Rubber Co. (Footwear)
Hoyt Rubber Co. (Molded Goods & Specialties)
New England Blacking Co. (Cements)
New England Rubber Co. (Controlled by Hood Rubber Co.)
Revere Rubber Co. (Mechanical Goods & Tires, etc.)
Shawmut Tire Co. (Auto Tires & Tubes)
Simplex Electrical Co. (Insulated Wires & Cables)
United States Rubber Co. (Holding Company for American Rubber Co., and Other Companies)
BROCKTON—Hazen-Brown Co. (Cements)
CAMBRIDGE—American Rubber Co. (See Boston)
Boston Woven Hose & Rubber Co. (Mechanical Goods)
Simplex Electrical Co. (See Boston)
CAMPELLO—Stowe & Woodward Co. (Proofing of Cloth & Mechanical Goods)
CANTON JUNCTION—C-C-C Fire Hose Co. (Rubber-Lined Cotton Fire Hose)
CHELSEA—American Circular Loom Co. (Interior Conduits)
Boston Blacking Co. (Cement)
Revere Rubber Co. (See Boston)
CHICOPEE FALLS—Fisk Rubber Co. (Tires)
Spalding, A. G. & Bros. Mfg. Co. (Golf Balls & Sporting Goods)
CLARENDON HILLS—New England Rubber Mfg. Co. (Waterproof Clothing)
EASTHAMPTON—Easthampton Rubber Thread Co. (Rubber Thread & Bands)
EAST WATERTOWN—Hood Rubber Co. (See Boston)
Shawmut Tire Co. (See Boston)
HUDSON—Apsley Rubber Co. (Clothing & Footwear)
HYDE PARK—Bay State Insulated Wire & Cable Co. (Insulated Wires & Cables)
LOWELL—Lowell Insulated Wire Co. (Rubber-Covered Wires & Lamp Cords)
MALDEN—Boston Rubber Shoe Co. (See Boston)
Franklin Rubber Co. (See Boston)
MELROSE—Boston Rubber Shoe Co. (See Boston)
MILFORD—Archer Rubber Co. (Proofing for the Trade)
MILLVILLE—Woonsocket Rubber Co. (See Woonsocket, R. I.)
NORTH BROOKFIELD—B. & R. Rubber Co. (Molded Goods)
READING—Metropolitan Air Goods Co.
Reading Rubber Mfg. Co. (See Boston)
SALEM—Salem Rubber Co. (Cements)
STOUGHTON—Plymouth Rubber Co. (Proofers for the Trade, Molded Work & Heel Pads)
Spalding, A. G. & Bros. Mfg. Co. (See Chicopee Falls, Mass.)
Stoughton Rubber Co. (Clothing & Molded Goods), Controlled by Rubber Goods Mfg. Co.
WALPOLE—Massachusetts Chemical Co. (Rubber Insulating Tapes, Mechanical Goods, Cements, Molded Work, etc.)
Foster Rubber Co. (See Boston)
Walpole Rubber Co. (See Massachusetts Chemical Co.)
WORCESTER — AMERICAN STEEL & Wire Co. (Insulated Wires) (See adv. index, end of book)
Multiple Woven Hose & Rubber Co. (Fire Hose)

### MICHIGAN.

DETROIT—Detroit Insulated Wire Co. (Rubber-Covered Wire)
Morgan & Wright (Mechanical Goods, Tires & Molded Goods)

### MISSOURI.

ST. LOUIS—Banner Rubber Co. (Footwear)
St. Louis Rubber Cement Co. (Cements)

### NEW HAMPSHIRE.

CLAREMONT—Maynard Shoe Co. (Footwear)
EXETER—Rubber Step Mfg. Co. (Carriage Accessories)
MILFORD—Milford Rubber Cement Co. (See Boston)

### NEW JERSEY.

BAYONNE—Safety Insulated Wire & Cable Co. (See New York City)
BLOOMFIELD—Combination Rubber & Belting Co. (Mechanical)
Essex Rubber Co. (See Trenton, N. J.)
BUTLER—American Hard Rubber Co. (See Bloomingdale Rubber Co. York City)
EAST ORANGE—Seabury & Johnson (See New York City)
ELIZABETH—Jenkins Rubber Co. (See New York City)
GARFIELD—Laurel Rubber Co. (Stationers' Sundries)
HAMILTON SQ—Sayer Rubber Co. (Mechanical)
HARRISON—Driver-Harris Wire Co. (Insulated Wires)
HAWTHORNE—La Favorite Rubber Mfg. Co.
HOBOKEN—American Lead Pencil Co. (See New York City)
IRVINGTON—Ash, Claudius & Sons (Ltd.) (See New York City)
JERSEY CITY—New Jersey Car Spring & Rubber Co. (Mechanical, etc.)
Eureka Fire Hose Mfg. Co. (See New York City)
Voorhees Rubber Mfg. Co. (Mechanical)
LAMBERTVILLE—Lambertville Rubber Co. (Boots & Shoes)
LODI—Mattson Rubber Co. (Tire Repair Stock, Moulded & Special)
MILLTOWN—Michelin Tire Co. (Tires)
MORRISVILLE — Vulcanized Rubber Co. of New York (See New York City)
NEWARK—Faber, A. W. (See New York City)
Faber, Eberhand (See New York City)
NEW BRUNSWICK—India Rubber Co. (Controlled by Rubber Goods Co., New York
Johnson & Johnson (Rubber Plasters)
United States Rubber Co. (See New York City)
NEW DURHAM—Peerless Rubber Mfg. Co. (Controlled by Rubber Goods Co., New York City)
PASSAIC—Manhattan Rubber Mfg. Co. (Mechanical)
New York Belting & Packing Co. (Ltd.) (Controlled by Rubber Goods Co., New York City)
**OKONITE CO. (Ltd.), (See New** York City). (See adv. index, end of book)
PERTH AMBOY — Standard Underground Cable Co. (See Pittsburg, Pa.)

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TRENTON—Acme Rubber Mfg. Co. (Mechanical)
Ajax-Grieb Rubber Co. (See New York City)
Crescent Belting & Packing (Mechanical)
Crescent Insulated Wire & Cable Co. (Insulated Wire)
Elwell Rubber & Insulation Co.
Empire Tire Co. (Auto Tires)
Empire Rubber Mfg. Co. (Mechanical)
Essex Rubber Co. (Specialties for the Shoe Trade.) Factory, Bloomfield, N. J.
Hamilton Rubber Mfg. Co. (Mechanical)
Home Rubber Co. (Mechanical)
Home Tire Co. (Auto Tires), Controlled by Home Rubber Co.
Luzerne Rubber Co. (Hard Rubber)
Modern Rubber Mfg. Co. (Mats, Corks, etc.)
Perfection Rubber Co. (Molded Goods)
**Thermoid Rubber Co. (Mechanical, Auto. Tires, etc.)**
United & Globe Rubber Mfg. Co. (Mechanical)
Whitehead Bros. Rubber Co. (Mechanical & Moulded)
Woven Steel Hose & Rubber Co. (Mechanical)

## NEW YORK.

BATAVIA—Batavia Rubber Co. (Tires)
BUFFALO—Buffalo Rubber Mfg. Co. (Dipped Goods)
Buffalo Weaving & Belting Co. (Rubber Belting & Webbings)
Hewitt Rubber Co. (Mechanical Goods & Hose Specialties)
LOCKPORT—Empire Mfg. Co. (Rubber-Lined Cotton Hose & Belting)
MAMARONECK—Soltau, Robt. (See New York City)
MATTEAWAN—New York Rubber Co. (See New York City)
MT. VERNON—Hodgman Rubber Co. (See New York City)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Brooklyn Hard Rubber Co. (See Brooklyn Rubber Co.)
**Brooklyn** Rubber Co. (Hard & Soft Rubber Specialties), 395 Sumner av
**Brooklyn** Shield Co. (See Brooklyn Rubber Co.)
Doherty, Eugene (Est. of) (Dental & Stamp Rubber), 112 Kent av
Gutta Percha & Rubber Mfg. Co.
Parker, Stearns & Co. (Fine Rubber Goods) 286 Sheffield av

### Boroughs of Manhattan & Bronx.

NEW YORK—Ajax-Grieb Rubber Co. (Tires, Soles & Heels), 1776 B'way. Factory, Trenton, N. J.
American Hard Rubber Co. (Hard Rubber Goods), 9 Mercer. Factories, College Point, Borough of Queens, New York, Butler, N. J., Akron, O.
**American Lead Pencil Co. (Rubber Erasers & Bands), 43 W 4th. Factory, Hoboken, N. J.**
**American Wringer Co. (Rubber Rolls),** 99 Chambers. Factory: Auburn, N. Y.
**Ash, Claudius & Sons (Ltd.) (Dental Rubber), 30 E 14th. Factory, Irvington, N. J.**
Atlantic Insulated Wire & Cable Co. (Insulated Wires), 120 Liberty. Factory, Stamford, Conn.
**Bishop Gutta Percha Co. (Insulated Wire & Cables, Gutta Percha Tissue), 420 E 25th**
**Consolidated Rubber Tire Co. (Tires), 243 W 47th. Factory, Buckeye Rubber Co., Akron, O.**
Continental Caoutchouc Co. (Tires), 1788 B'way. Factories: Boston, Mass., & Hanover, Germany
**Eagle Pencil Co. (Rubber Erasers, etc.),** 507 W 26th
**Electric Cable Co. (Electric Cables. "Voltax" Insulation), 17 Battery pl. Factory, Bridgeport, Conn.**
**Eureka Fire Hose Mfg. Co. (Rubber-Lined Fire Hose), 13 Barclay. Factory, Jersey City, N. J.**
**Faber, A. W. (Erasers & Stationers' Rubber Goods), 44 E 23d. Factory, Newark, N. J.**
**Faber, Eberhard, Firm of. (Erasers & Stationers' Rubber Goods), 299 B'way. Factory, Newark, N. J.**
**Fabric Fire Hose Co. (Fire Hose), Duane & Church. Factory, Sandy Hook, Conn. Controlled by Rubber Goods Mfg. Co., New York City**
**Goodyear India Rubber Glove Mfg. Co. (Footwear, Clothing, Druggists' Sundries, etc.), 503 B'way. Factory Naugatuck, Conn. Controlled by U. S. Rubber Co., New York City**
**Goodyear Rubber Co. (Footwear), 787 B'way. Factory, Middletown, Conn.**
**Gutta Percha & Rubber Mfg. Co. (Mechanical), 126 Duane. Factory, Brooklyn, N.Y.**
**Habirshaw Wire Co. (Insulated Wires), 253 B'way. Factory, Yonkers, N. Y.**
**Hodgman Rubber Co. (Mackintoshes, Rubber Clothing, Druggists' & Stationers' Sundries & Air Goods), 806 B'way. Factories, Tuckahoe, N. Y., & Mt. Vernon, N. Y.**
Imperial Rubber Co. (Dental Rubber), 253 B'way. Edw. J. McCormick, Propt.
**Jenkins Rubber Co. (Mechanical Packings,** Valves, etc.), 88 White. Factory: Elizabeth, N. J., Jenkins Bros. Propts.
**Johnson & Johnson (Rubber Medical Plasterers), 100 William. Factory, New Brunswick, N. J.**
**KERITE INSULATED WIRE & CA**ble Co. (Insulated Wires & Cables), 30 Church. Factory, Seymour, Conn. (See adv. index, end of book)
Kleinert, I. B. Rubber Co. (Dental Rubber & Dress Shields), 725 B'way. Factory, College Point, Borough of Queens, New York City
**Major Cement Mfg. Co.** (Cements), 461 Pearl
Mechanical Rubber Co. (Mechanical), 73 Reade. Controlled by Rubber Goods Mfg. Co., New York City
New York Belting & Packing Co. (Mechanical, Mattings, etc.), 91 Chambers. Factories, Passaic, N. J. Controlled by Rubber Goods Mfg. Co., New York City
New York Gas Tubing Co. (Gas Tubings), 95 Bank
New York Insulated Wire Co. (Insulated Wires & Hard Rubber, Insulating Tapes, Gasket Packing, etc.), 114 Liberty. Factory, Wallingford, Conn.
**NEW YORK RUBBER CO, (Me**chanical Rubber Goods), Reade & Church. (See adv. index, end of book)
**OKONITE CO, (Ltd.) (Insulated** Wires & Cables), 253 B'way. Factory, Passaic, N. J. (See adv. index, end of book)
Peerless Rubber Mfg. Co. (Mechanical), 16 Warren. Factory, New Durham, N. J. Controlled by Rubber Goods Mfg. Co., New York City

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Rubber Goods Mfg. Co. (Mechanical, Tires, etc.), 42 B'way, New York. This Company also controls the following Companies:
Fabric Fire Hose Co., New York City
G. & J. Tire Co., Indianapolis, Ind.
India Rubber Co., New Brunswick, N. J.
Indianapolis Rubber Co., Indianapolis, Ind.
Mechanical Rubber Co., Chicago, Ill.
Mechanical Rubber Co., Cleveland, O.
Mechanical Rubber Co., New York
Morgan & Wright, Detroit, Mich.
New York Belting & Packing Co., New York
Peerless Rubber Mfg. Co., New York
Stoughton Rubber Co., Stoughton, Mass.

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Safety Insulated Wire & Cable Co. (Insulated Wires & Cables), 114 Liberty. Factory, Bayonne, N. J.
Seabury & Johnson (Rubber Plasters), 59 Maiden Lane. Factory, East Orange, N. J.
Soltau, Robt. (Gutta Percha Tissue), 75 John. Factory, Mamaroneck, N. Y.
Traun Rubber Co. (Dental & Druggists' Sundries. Stamp Rubber, etc.), 335 B'way. Factory, College Point, Borough of Queens, New York City

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United States Rubber Co. (Footwear, Clothing, Druggists' Sundries, Insulated Wires, etc.), 42 B'way. This Company also controls the Rubber Goods Mfg. Co., New York City, & subsidiary Companies that follow under their name. The United States Rubber Co. also controls the following:
American Rubber Co., Boston, Mass.
Banigan, Jos. Rubber Co., Providence, R. I.
Bay State Rubber Co., Boston, Mass.
Boston Rubber Shoe Co., Boston, Mass.
Candee, L. & Co., New Haven, Conn.
Goodyear Metallic Rubber Shoe Co., Naugatuck, Conn.
Lycoming Rubber Co., Williamsport, Pa.
National India Rubber Co., Bristol, R. I.
Rubber Goods Mfg. Co., New York
Woonsocket Rubber Co., Woonsocket, R. I.

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Vulcanized Rubber Co. of New York (Hard Rubber Goods), 488 B'way. Factory, Norrisville, N. J.

### Borough of Queens.

COLLEGE POINT—Kleinert, I. B. Rubber Co. (See New York City)
LONG ISLAND CITY—Rubber Stopple Co. (Small Molded Goods), W. R. Rhoades & Co., Props.

### Borough of Richmond.

PRINCES BAY—White, S. S. Dental Mfg. Co. (See Phila., Pa.

### (End of New York City)

PALMYRA—Crandall Packing Co. (Packings, etc.
Dealers Steam Packing Co. (Packings)
Garlock Packing Co. (Packings & Mechanical)
ROME—Wire Co. of America (Insulated Wires)
SCHENECTADY—**GENERAL ELECTRIC** Co. (Insulated Wires). (See adv. index, end of book)
SETAUKET—Suffolk Rubber Co. (Footwear)
TUCKOHOE—Hodgman Rubber Co. (See New York City)
Reliable Rubber Co. (Clothing, Sundries & Specialties)
YONKERS—Habirshaw Wire Co. (See New York City)

## OHIO.

AKRON—Akron Pneumatic Tire Making Machine Co. (Tires & Tubes)
American Hard Rubber Co. (See New York City)
Betzler & Wilson (Fountain Pens)
Diamond Rubber Co. (Mechanical Rubber Goods, Hard Rubber, Tires, etc.)
Firestone Tire & Rubber Co. (Tires)
**GOODRICH, B. F. CO. (Mechanical** Rubber Goods, Tires, Stationers' & Druggists' Sundries, etc. (See adv. index, end of book)
Goodyear Tire & Rubber Co. (Mechanical Goods, Tires, Druggists' Sundries, etc.)
Lyon Rubber Co. (Gloves & Other Dipped Goods)
Miller Rubber Co. (Molded Work, Seamless Gloves, etc.)
Motz Clincher Tire & Rubber Co. (Tires)
Pike, O. C. (Rubber Specialties) dries)
Star Rubber Co. (Seamless Druggists' Sun-
Stein Double Cushion Tire Co. (Carriage Tires)
Swinehart Tire & Rubber Co. (Carriage Tires)
ASHLAND—Faultless Rubber Co. (Druggists' & Surgical Sundries, Molded Goods, etc.)
BARBERTON—Rubber Products Co. (Mechanical & Druggists' Sundries)
BEACH CITY—Imperial Rubber Mfg. Co. (Seamless & Druggists' Sundries.) (See Also Canton
CANTON—Canton Rubber Co. (Seamless Goods & Druggists' Sundries)
Imperial Rubber Mfg. Co. (See Beach City, O.)
CARROLLTON—Miller Tire & Rubber Co.
CINCINNATI—Cincinnati Rubber Mfg. Co. (Mechanical)
CLEVELAND—Huron Rubber Co. (Pure Gum Specialties)
Mechanical Rubber Co. (Mechanical & Druggists' Sundries), Controlled by Rub-Goods Mfg. Co. (See New York City)
EAST PALESTINE—McGraw Tire & Rubber Co. (Tires, etc.)
MANSFIELD—Mansfield Rubber Co.
MINERAL CITY—Progressive Rubber Co. (Hard Rubber Harness Mountings, etc.)
SPRINGFIELD — Springfield Elastic Thread Co. (Heels.) (See Springfield Tire & Rubber Co.)
Springfield Tire & Rubber Co. (Mechanical, Tires & Molded Goods)
Victor Rubber Co. (Mechanical, Tires, etc.)
TOLEDO—National Cement Mfg. Co. (Cements, Friction Tapes, etc.)
WARREN—Packard Electric Co. ("Packard," Cable)
YOUNGSTOWN—Republic Rubber Co. (Mechanical, Tires, etc.)

## PENNSYLVANIA.

AMBLER—Keasbey & Mattison Co. (Asbestos & Rubber Packings)
BLOOMSBURG—Wirt, Paul E. (Fountain Pens)

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ERIE—Continental Rubber Works (Mechanical, Tires, etc.)
Erie Rubber Co. (Molded Work)
JEANNETTE — PENNSYLVANIA RUBber Co. (Mechanical, Tires, etc.) (See adv. index, end of book)
MORRISVILLE—Vulcanized Rubber Co. (See New York City)
PHILADELPHIA—Montgomery Bros. (Inc.) (Cements), 48 N Front
Moore, Alfred F. (Insulated Wires), 200 N 3d
Mulconroy Co. (Inc.) (Mechanical Goods, etc.), 722 Arch
National Rubber Tire Mfg. Co., Bullitt bldg
Quaker City Rubber Co. (Mechanical), 629 Market
White, S. S. Dental Mfg. Co. (Dental Supplies), 12th & Chestnut. Factory, Princes Bay, Bor. of Richmond, New York City
PITTSBURG—Allen Rubber Co. (Mechanical)
Standard Underground Cable Co. (Insulated Wires). Factory: Perth Amboy, N. J.
WILKES-BARRE—Hazard Mfg. Co. (Insulated)
WILLIAMSPORT — Lycoming Rubber Co. (Boots & Shoes), Controlled by U. S. Rubber Co. (See New York City)

## RHODE ISLAND.

BRISTOL — Consumers' Rubber Co. (Insulated Wires)
National India Rubber Co. (Insulated Wires, Footwear, Mechanical Goods, Druggists' Sundries, Carriage Cloth), Controlled by U. S. Rubber Co. (See New York City)
PAWTUCKET—Collyer Insulated Wire Co. (Insulated Wires & Cables, & Rubber Packings)
PHILLIPSDALE—American Electrical Works (Insulated Wires)
PROVIDENCE—Banigan, Jos. Rubber Co. (Footwear), Controlled by U. S. Rubber Co. (See New York City)
Bourn Rubber Co. (Insulated Wires, Footwear, etc.)
Davol Rubber Co. (Druggists' Sundries)
Dunton, M. W. & Co. (Tapes & Insulation)
Mechanical Fabric Co. (Rubber Thread & Card Clothing)
WOONSOCKET—American Wringer Co. (See New York City)
Woonsocket Rubber Co (Footwear), Controlled by U. S. Rubber Co. (See New York City)

## WASHINGTON.

SPOKANE—Interstate Rubber Co. (Inc.) (Molded Goods, Valves, Gaskets, etc.)

## WISCONSIN.

CUDAHY—Federal Rubber Co. (Tires, Mechanical Goods, etc.)
LA CROSSE—La Crosse Rubber Mills Co. (Mackintoshes, Rubber Clothing, Footwear & Molded Goods)
RACINE—Chicago Rubber Clothing Co. (Mackintoshes, Rubber Clothing, etc.)
Kelley-Racine Rubber Co.

## 9875—Rubber Mfrs (Mechanical)

(See Index of Contents for all Other Rubber Specialties)

Acme Rubber Mfg. Co., Trenton, N. J.
Allen Rubber Co., Pittsburg, Pa.
Boonton Rubber Co., Boonton, N. J.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Buckley, Jno. W. Rubber Co., 69 Warren, New York
Canfield, H. O. Co., Bridgeport, Conn.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Works, Cleveland, O.
Consumers' Rubber Co., Cleveland, O.
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
Davidson Rubber Co. (Hard & Soft, Drug, Dental, Surgical & Hospital), Boston, Mass.
Diamond Rubber Co., Akron, O.
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J.
Eureka Fire Hose Co., 13 Barclay, New York. Works: Jersey City, N. J.
Federal Rubber Co., Cudahy, Wis.
GOODRICH, B. F. CO., Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Gutta Percha Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Hartford Rubber Works, Hartford, Conn.
Hewitt Rubber Co., Buffalo, N. Y.
HOME RUBBER CO., Trenton, N. J. (See adv. index & branch offices, end of book)
Indianapolis Rubber Co., Indianapolis, Ind.
Laurel Rubber Co., Garfield, N. J.
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Mansfield Rubber Co., Mansfield, O.
Mechanical Rubber Co., 73 Reade, New York.
Miller Rubber Mfg. Co., Akron, O.
Mineralized Rubber Co., 18 Cliff, New York
Morgan & Wright (Inc.), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National India Rubber Co., Bristol, R. I.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co (Ltd.), 91 Chambers, New York
NEW YORK RUBBER CO., Reade & Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co. (Chas. A. Daniel, Prop.), 629 Market, Phila., Pa.
Revere Rubber Co., 77 Bedford, Boston, Mass.
Rubber Products Co., Barberton, O.
Rubber Stopple Co., Long Island City, N. Y.
Sayen, Osgood, Arcade bldg, Phila., Pa.
Stokes, Jos. Rubber Co., Trenton, N. J.
Thermoid Rubber Co., Trenton, N. J.
Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.
Wilkie Rubber Mfg. Co. (Hard & Soft), Saugus, Mass.

## 9876— Rubber (Mineral)

Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.

## 9877—Rubber Packers & Rings

Cincinnati Rubber Mfg. Co., Cincinnati, O.
GOODRICH, B. F. CO. (For Oil & Gas Wells), Akron, O. (See adv. index & branch offices, end of book)
HOME RUBBER CO., Trenton, N. J. (See adv. index & branch offices, end of book)
NEW YORK RUBBER CO. (For Oil & Gas Wells), Reade & Church, New York. (See adv. index, end of book)
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

## Rubber Packing

(See Packing Manufacturers)

## 9878— Rubber (Reclaimed)

American Rubber Reclaiming Co. ("Mercer" Brand), Gtn, Phila, Pa.
Alkali Rubber Co., Akron, O.
Appleton, F. H. & Co., 185 Summer, Boston, Mass.
Bloomingdale Rubber Co., 149 B'way, New York. Works: Butler, N. J.
Boonton Rubber Co. (For Hard Rubber Compounds), Boonton, N. J.
Clapp, E. H. Rubber Co., Boston, Mass.
Continental Rubber Works, Erie, Pa.
Derby Rubber Co., Derby, Conn.
Harmer Rubber Reclaiming Works, East Millstone, N. J.
Housatonic Rubber Works, Bridgeport, Conn.
Manufactured Rubber Co. ("Lafayette", "Wm. Penn", "Star"), Penna bldg, Phila., Pa. Works: Metuchen, N. J.
New Jersey Rubber Co., Lambertville, N. J.
Pequanoc Rubber Co., Butler, N. J.
Philadelphia Rubber Works, Land Title bldg, Phila., Pa.
S. & L. Rubber Co., Chester, Pa.
Stockton Rubber Co., Stockton, N. J.
Stokes, Joseph Rubber Co., Trenton, N. J.
Trenton Rubber Reclaiming Works, Trenton, N. J.
Union Rubber Co., Akron, O.
U. S. Rubber Co. (Reclaiming Plant), Naugatuck, Conn.
U. S. Rubber Reclaiming Works, 277 B'way, New York
Westmoreland Rubber Mfg. Co., Grapeville, Pa.


# Pennsylvania Rubber Company

JEANNETTE, PA.

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# 5,000 Rubber Workers

Are employed in the great GOODRICH factory under likable, agreeable and highly approved conditions that tend to promote a common interest.

The results show to splendid advantage in—

**Goodrich Rubber Belting**

**Goodrich Rubber Hose**

**Goodrich Rubber Packing**

Likewise all down the line of numerous other rubber articles made in the Goodrich plant

## THE B. F. GOODRICH COMPANY

WRITE FOR CATALOG
BRANCHES EVERYWHERE

**Akron, Ohio**

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## 9879—Rubber Rods & Sheets

Bishop Gutta Percha Co. (Gutta Percha Sheets) 422 E. 25th, New York
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Morgan & Wright (Inc.) (Rods & Tubing), Detroit, Mich.
Vulcanized Rubber Co., 488 B'way, New York.
Whitehead Bros. Rubber Co. (Pure Sheet Only) Trenton, N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 9880— Rubber Saw Bands

**BOSTON BELTING CO., 260 Devonshire**, Boston, Mass. (See adv. index & branch offices, end of book)
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Combination Rubber & Belting Co., Bloomfield
Continental Rubber Works, Erie, Pa. N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.

## 9881— Rubber Substitutes

Ashley, T. C. & Co. (White), 683 Atlantic av, Boston, Mass.
Cantor, Joseph, 56 Pine, New York
Carter-Bell Mfg. Co. (Black & White), 150 Nassau, New York
Corn Products Refining Co. ("Paragol"), 26 B'way, New York
Hitch, Allerton D. & Co., New York
Klingenberger, Wm., Gloucester, Mass.
Lufberfy, Geo. F. Jr., Elizabeth, N. J.
Massachusetts Chemical Co., Walpole, Mass.
National Co., 1404 Clybourn pl, Chicago, Ill.
Pierce Co. ("Vorite"), East Rochester, N. Y.
Stamford Rubber Supply Co. ("Stamford"), Stamford, Conn.
Tyson Bros., Stamford, Conn.
Viscol Co., Cambridge, Mass.

## 9881a—Rubber Suits (Pneumatic Pressure)

**GOODRICH, B. F. CO. ("Dr. George** W. Grile Patent"), Akron, O. (See adv. index & branch offices, end of book)

## Rubber Window Cleaners

(See Cleaners, Window)

## 9882—Rubbers (Fruit Jar)

Acme Rubber Mfg. Co., Trenton, N. J.
B. & R. Rubber Co., North Brookfield, Mass.
Boston Woven Hose & Rubber Co., Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Works, Cleveland, O.
Continental Rubber Works, Erie, Pa.
Empire Rubber Mfg. Co., Trenton, N. J.
**GOODRICH, B. F. CO., Akron, O. (See** adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Manhattan Rubber Co., 18 Vesey, New York
New York Belting & Packing Co., 91 Chambers, New York
**PENNSYLVANIA RUBBER CO. ("Pa-**ruco"), Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Rubber Products Co., Barberton, O.
Sayen Rubber Co., Hamilton Sq., N. J.

## 9883—Rubbing Beds (Stone, Slate, Etc.)

Birmingham Iron Foundry (For Marble, Stone, Slate, Brick & Terra Cotta), Derby, Conn.
**FLORY, S. MFG. CO. (With Adjustable** Step Box), Bangor, Pa. (See adv. index, end of book)
Flynn & Emrich Co. (Stone), Baltimore, Md.
Glover Machine Works (For Marble), Marietta, Ga.
Hinds, Thos., Malone, N. Y.
Lehigh Foundry Co., Fullerton, Pa.
Lincoln Iron Works, Rutland, Vt.
Lord, Bowler & Co., Cleveland, O.
New Albany Mfg. Co., New Albany, Ind.
Patch, F. R. Mfg. Co., Rutland, Vt.

## 9884—Rudders (Galvanized Iron)

Wilcox, Crittenden & Co., Middletown, Conn.

## 9885—Rule (Perforating, Cutting & Creasing)

**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## Rulers (Avertising, Wood)

(See Advertising Novelties)

## 9886—Rulers (Hard Rubber)

American Hard Rubber Co., 9 Mercer, New York

## 9887—Rulers (School & Desk)

American Mfg. Concern, Jamestown, N. Y.
Bogert & Hopper Co., 162 William, New York
Brown & Kearney Mfg. Co., Warsaw, N. Y.
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Lufkin Rule Co., Saginaw, Mich.
Westcott-Jewell Co., Seneca Falls, N. Y.

## 9888— Rules

(Under this Heading See Sub-Classifications)

Athol Machine Co. ("Standard" Steel), Athol, Mass.
Blix, A. J. ("Blix's" Steel Folding for Architects & Engineers), Minneapolis, Minn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stephens Co. ("Pearce" Box Wood, Ivory, Combination, Slope Level, Try Square & Miscellaneous, etc.), Pine Meadow, Conn.
Dietzgen, Eugene Co. (For Draughting Room), 181 Monroe, Chicago, Ill.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
**ELLIOTT, B. K. CO., 108 6th, Pitts**burg, Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
Forsyth Mfg. Co. (Metal), Buffalo, N. Y.
Irving Mfg. & Tool Co. ("Axiom"), 157 Chambers, New York
Johnson, E. P. Rule Mfg. Co., 555 W Monroe, Chicago, Ill.
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
**MAKEPEACE, B. L. (Architects' &** Engineers'), 387 Washington, Boston, Mass. (See adv. index, end of book)
Massachusetts Tool Co. (Tempered Steel), Greenfield, Mass.
**POST, FRED'K CO. (Slide), 3635 N** Hamlin av, Chicago, Ill. (See adv. index, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**SOLTMANN, E. G.**
(Architects' & Engineers' Slide; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
Somers, James M. Co. (Brass), Bridgeport, Conn.
Stanley Rule & Level Co. ("Victor"), New Britain, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Upson Nut Co. (Boxwood), Unionville, Conn., & Cleveland, O.

## 9889— Rules (Aluminum)

Aluminum Goods Mfg. Co. (Pocket, etc.), Manitowac, Wis.

## 9890— Rules (Caliper)

(See also Calipers)

Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stephens Co. (Boxwood), Pine Meadow, Conn.
Humphrey Machine Co., Keene, N. H.
Lufkin Rule Co., Saginaw, Mich.
Stanley Rule & Level Co. (Boxwood, Ivory, etc.), New Britain, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Upson Nut Co., Unionville, Conn., & Cleveland, O.

## 9891— Rules (Extension)

Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
Stanley Rule & Level Co., New Britain, Conn.

## 9892— Rules (Key Seat)

Brown & Sharpe Mfg. Co., Providence, R. I.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 9893—Rules (Lumberman's)

American Rule Mfg. Co. (Second-Growth White Hickory), Nashville, Tenn.
Chapin-Stephens Co. (Log Sticks, etc.), Pine Meadow, Conn.
Lufkin Rule Co., Saginaw, Mich.
Stanley Rule & Level Co., New Britain, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

## 9894—Rules (Machine, Divided Steel)

Lufkin Rule Co., Saginaw, Mich.

## 9895— Rules (Machinists')

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Coffin & Leighton, Syracuse, N. Y.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Lufkin Rule Co., Saginaw, Mich.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 9896— Rules (Pocket)

Lufkin Rule Co., Saginaw, Mich.
**STARRETT, L. S. CO. (Steel Fold**ing), Athol, Mass. (See adv. index & branch offices, end of book)

## 9897—Rules (Scale & Shrinkage)

Brown & Sharpe Mfg. Co., Providence, R. I.
**ELLIOTT, B. K. CO., 108 6th, Pitts**burg, Pa. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
Stanley Rule & Level Co., New Britain, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
**SOLTMANN, E. G.**
(For Metal & Terra Cotta; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 9898— Rules (Slide)

Scientific Materials Co. (Chemists), Pittsburg, Pa.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 9899— Rules (Steel)

Billings & Spencer Co., Hartford, Conn.
Brell, Robt. (Transparent, for Blacksmiths, etc.), 117 Locust, St. Louis, Mo.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Cleveland Fillet Co. (Steel Shrink Rules), Cleveland, O.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Forsyth Mfg. Co. ("F.-M.-Co.," "No. 701-2-3 & 4"), Buffalo, N. Y.
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
Massachusetts Tool Co., Greenfield, Mass.
Nichols Mfg. Co. (Framing), Ottumwa, Ia.
Peck, Stow & Wilcox Co. (Tinners'), Southington, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Smith, Ernst G. Co. ("Columbia," 6 inch), Columbia, Pa.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 9900—Rules (Steel, Metric)

Brown & Sharpe Mfg. Co., Providence, R. I.
Lufkin Rule Co., Saginaw, Mich.
Massachusetts Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Stanley Rule & Level Co., New Britain, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 9901— Rules (Tinners')

Lufkin Rule Co., Saginaw, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.

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## 9902— Rungs (Ladder)

**Oliver Iron & Steel Co. (Steel), Pittsburg, Pa.**
**NEW BRITAIN MACHINE CO., New Britain, Conn.** (See adv. index, end of book)

## 9903— Runners (Joint)

**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Famous Mfg. Co., Grand Rapids, Mich.
**JOHNS, H. W.-MANVILLE CO., 100 William, New York.** (See adv. index & branch offices, end of book)
Lord, L. L. Co., Meadville, Pa.
Walworth Mfg. Co., Boston, Mass.
Wolverine Brass Works, Grand Rapids, Mich.

## 9904— Runs (Ice)

Gifford-Wood Co. (Wood or Iron), Hudson, N. Y.

## 9904a—Runways (Steel, for Cranes)

**NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich.** (See adv. index & branch offices, end of book)

## 9905— Rust Preventives

Houghton, E. F. & Co. ("Cosmic" & White Slushing Oil), 240 W Somerset, Phila., Pa.
Melville, F. L. ("Melville's Standard"), 83 Water, New York
Pecora Paint Co. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila, Pa.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 9906— Rust-Proofing

Bradley Rust-Proofing Co., 35 Ferris, Brooklyn, N. Y.

## 9907— Rustic Woodwork

McKinnon, C. J., Midvale, N. J.
Pierce, W. E. & Co., Milford, N. H.
Siebrecht & Son, 425 5th av, New York

## 9908—Rustic Work (Terra Cotta)

Cincinnati Sewer Pipe Co., Cincinnati, O.
Streator Clay Mfg. Co., Streator, Ill.

## 9909— Saccharometers

Philadelphia Thermometer Co., Arch & 9th, Phila., Pa.
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 9910— Sacks (Ore)

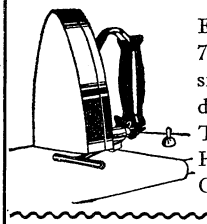
Colorado Tent & Awning Co. ("Boss"), Denver, Colo.
Hoegee, Wm. H. Co., Los Angeles, Cal.

## 9911—Sacks (Paper, Cement & Flour)

Chicago-Detroit Bag Co., Marquette bldg, Chicago, Ill.
Phillips, Thos. Co., Akron, O.

## 9912— Sad Irons

Acme Self-Heating Iron Co. ("Acme" Self-Heating), Ravenna, O.
Alcohol Utilities Co. ("Pyro" Alcohol Self-Heating), 40 E 21st, New York
American Electrical Heater Co. (Electric), Detroit, Mich.
American Foundry & Mfg. Co. ("Potts" & Common), St. Louis, Mo.
American Skein & Foundry Co. (Also Tailors' Irons), Racine, Wis.
Bless & Drake ("Potts" Cold-Handle, Self-Heating Charcoal, etc.), Newark, N. J.
Central Flatiron Mfg. Co. (Gas Heated), Binghamton, N. Y.
Chattanooga Implement & Mfg. Co. ("Mrs. Potts" & Common), Chattanooga, Tenn.
Colebrookdale Iron Co. ("Mrs Potts", "Sensible", Chinese Shirt Waist & Laundry, Shield "C" "Sensible" & Shield "C" Tailors), Pottstown, Pa.
CUTLER-HAMMER MFG. CO. (Electrically Heated for all Purposes), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Dover Mfg. Co. ("Par Excellence," Asbestos), Canal Dover, O.



Electric Irons, 3, 5, 6, 7, 12, 15 and 20 lbs. sizes and other heating devices. Booklet free. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

Durant, W. N. Co. ("Watson" Electric), Milwaukee, Wis.
Electric Sad Iron Co. (Electric), Detroit, Mich.
Enterprise Mfg. Co. ("Enterprise," "Star" Polisher), 3d & Dauphin, Phila., Pa.
GENERAL ELECTRICAL CO. (Electric), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Genessee Valley Mfg. Co., Mount Morris, N. Y.
Griswold Mfg. Co., Erie, Pa.
Guaranty Elec. Heater Co. (Electric), Cleveland, O.
Harwood Elec. Heating Co. (Electric), Hutchinson, Kan.
Herz Mfg. Co. (Self-Heating Gasoline), St. Paul, Minn.
Howell, W. H. Co. (Cold Handled & Common, also "Star" Quality), Geneva, Ill.
Ideal Sad Iron Mfg. Co. (Gasoline), Cleveland, Ohio
Illionis Iron & Bolt Co. (Revolving, also Tailors' Irons), Carpentersville, Ill.
Imperial Brass Mfg. Co. ("Imperial" Self-Heating), 444 S Jefferson, Chicago, Ill.
Little Giant Co. ("Little Giant", Reversible Gas), 532 Walnut, Phila., Pa.
Lodge Mfg. Co., South Pittsburg, Tenn.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Mahony Mfg. Co., Troy, N. Y.
Modern Specialty Co. ("Modern Self-Heating, Gasoline & Alcohol), Milwaukee, Wis.
Ober Mfg. Co., Chagrin Falls, O.
Ohio Electric Works (Electric), 6304 Ellen av, N W, Cleveland, O.
Pacific Electric Heating Co. ("Pacific," "World's Best", "Hot Point" & "Utility"), Ontario, Cal.
Pease Mfg. Co., Cincinnati, O.
Pelouze Electric Heater Co. ("Universal" Electric), 232 E Ohio, Chicago, Ill.
ROCK ISLAND MFG. CO. ("Potts'" Pattern), Rock Island, Ill. (See adv. index & branch offices, end of book)
Rosenbaum Mfg. Co. ("Rose" Gas), 3 Bleecker, New York
Schlueter, M. L. (Denatured Alcohol, Self-Heating), 103 N Canal, Chicago, Ill.
Simplex Electric Heating Co. (Electric, also Tailors' Irons), Boston, Mass.
South Bend Foundry Co., South Bend, Ind.
Southern Skein & Foundry Co. (Also Tailors' Irons), Chattanooga, Tenn.
Thurnauer, G. M. & Bro. ("Nickel Plated Alcohol"), 83 Worth, New York
Union Mfg. Co., Boyertown, Pa.
United Steel Co., Canton, O.
Virden Mfg. Co. ("Peerless", Denatured Alcohol Revolving Self-Heating), Cleveland, O.
WESTINGHOUSE ELECTRIC & MFG. Co. (Electrically Heated), Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co. (Cold Handles "Mrs. Best's", Wrightsville, Pa.

## 9913—Sad Irons (Electric)

(See Firms in Sad Irons, with the Word Electric Following Their Name)

## 9914— Sad Irons (Gas)

(See Firms in Sad Irons with the Word Gas Following Their Name)

## 9915— Saddles (Bicycle)

Climax Mfg. Co., East Hampton, Conn.
Graton & Knight Mfg. Co. (Leather), Worcester, Mass.

## 9916—Saddles (Boiler, Tank Etc.)

Lisk, J. P. ("Lisk." "Universal"), 151 Quincy, Brooklyn, N. Y.

## 9917—Saddles (Car Roof, for Running Board)

**Dayton Malleable Iron Co. (Malleable Iron), Dayton, O.**

## 9918— Saddles (Pipe)

American Foundry & Mfg. Co., St. Louis, Mo.
**AMERICAN SPIRAL PIPE WORKS, W 14th & 48th av., Chicago, Ill.** (See adv. index & branch offices, end of book)
Dayton Pipe Coupling Co. (For Pipe Mains, etc.), Dayton, O.
Kelly & Jones Co. (Cast & Malleable Iron), Pittsburg, Pa.
McCrea, James & Co. ("Emergency") 558 W Washington, Chicago, Ill.
Mueller, H. Mfg. Co., Decatur, Ill.
National Tube Co. (Double Wrought Strap), Pittsburg, Pa.
Newburg Mfg. Co., Monroe, N. Y.
Pittsburg Valve & Fittings Co., Pittsburg, Pa.

## 9919—Safe Ends (Boiler Tube)

**National Tube Co., Pittsburg, Pa.**

## 9920— Safes (Cabinet)

**FIRE-PROOF FURNITURE & CONS**truction Co. (Steel), Miamisburg, Ohio. (See adv. index, end of book)
Globe-Wernicke Co., Cincinnati, O.

## 9921— Safes (Express Car)

**HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av., Cincinnati, O.** (See adv. index & branch offices, end of book)
Herring-Hall-Marvin Safe Co., Hamilton, O.

## 9922—Safes (Fire & Burglar Proof)

(For All Other Safe Manufacturers see Bank Vaults)

Alpine Safe & Lock Co., Cincinnati, Ohio
American Safe & Lock Co., Cincinnati, O.
Barnes, R. L. Safe & Lock Co., Richmond, Va.
Barnes Safe & Lock Co., Pittsburg, Pa.
Baum, J. Safe & Lock Co., Cincinnati, O.
Cary Safe Co., Buffalo, N. Y.
Diebold Safe & Lock Co., Canton, O.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
**HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av., Cincinnati, O.** (See adv. index & branch offices, end of book)
Herring-Hall-Marvin Safe Co., Hamilton, O.
Macneale & Urban Co., Hamilton, Ohio
Manganese Steel Safe Co., 371 B'way, New York
Meilink Mfg. Co. (Home Deposit Vaults), Toledo, O.
Miller, L. H. Safe & Iron Works, Baltimore, Md.
Morris-Ireland Safe Co., Boston, Mass.
Mosler Safe Co., Hamilton, O.
Naeher Safe & Lock Co., Cincinnati, Ohio
National Safe & Lock Co., Cleveland, O.
Norris Safe & Lock Co., Seattle, Wash.
Remington & Sherman Co., 359 B'way, New York
Schwab Safe & Lock Co., Lafayette, Ind.
Stiffel & Freeman, 723 Chestnut, Phila, Pa.
Syracuse Safe Co., Syracuse, N. Y.
Triumph Safe & Lock Co., Connersville, Ind.
U. S. Safe Co., Elizabeth, Pa.
Victor Safe & Lock Co., Cincinnati, O.
**WALSH'S SONS & CO., Harrison, N. J.** (See adv index, end of book)
Waltz Safe & Lock Co., San Francisco, Cal.
York Safe & Lock Co., York, Pa.

## 9923— Safes (House)

**HALL'S SAFE CO., Main Office and Factory, 3253 Spring Grove av., Cincinnati, O.** (See adv. index & branch offices, end of book)

## 9924—Safes (Manganese Steel)

**HALL'S SAFE CO. (For Banks),** Main Office & Factory: 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)

## 9925— Safes (Match)

Bogert & Hopper Co. (Advertising), 162 William, New York
Buffalo Mfg. Co., Buffalo, N. Y.
Carrington & Co. (Pocket), Newark, N. J.

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Eclipse Gas Stove Co. ("Eclipse"), Rockford, Ill.
Estes, E. B. & Sons (Advertising), 79 Warren, New York
Forsyth Mfg. Co. ("No. 804"), Buffalo, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
National Sheet Metal Co. (Stamped Nickelene, etc.), Peru, Ill.
Sweeney, W. H. Mfg. Co., 30 Main, Brooklyn, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

## 9926– Safes (Receiving)

(For Street Railway Conductors' Trip Returns)
**HALL'S SAFE CO. (For Conductors** Trip Returns). Main Office & Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)
Littleford Bros., 453 E Pearl, Cincinnati, O.

## 9927–Safes (Wall, Built In)

**HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 9928–Safety Deposit Boxes

**FIRE-PROOF FURNITURE & CON**struction Co., Miamisburg, O. (See adv. index, end of book)
**HALL'S SAFE CO., Main Office and** Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)
Mosler Safe Co., Canton, O.
National Safe & Lock Co., Cleveland, O.
Thomas-Peters Co., Canton, O.
York Safe & Lock Co., York, Pa.

## Safety Treads

(See Stair Treads, Various Kinds)

## 9929– Sails (Yacht)

Baker, H. H. & Co., Buffalo, N. Y.
**CARPENTER, GEO. B. & CO., 202 S Water** Chicago, Ill. (See adv. index, end of book)
Chandler, F. & Son, Savannah, Ga.
Cousens & Pratt, Boston, Mass.
Folsom, F. W. & Co., Providence, R. I.
Goss, J. C. Co., Detroit, Mich.
Herreshoff Mfg. Co., Bristol, R. I.
Jones & Robinson, 83 Front, New York
Morton, Rob't E., 26 South, New York
Pease, L. F., Providence, R. I.
Upson-Walton Co., 155 River, Cleveland, O.
McClellan, Chas. P., Fall River, Mass.
Wilson & Silsby, Rowe's Wharf, Boston, Mass.

## 9930– Salamanders

**CARLIN'S, THOMAS SONS & CO.,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Durlach, I. ("Mason's"), 54 Vesey, New York
**DROUVE, G. CO., 40 Tulip, Bridge**port, Conn., & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)
Eagle Iron Works ("May's"), 850 DeKalb av, Brooklyn, N. Y.
Fleck, M., 442 Pleasant av, New York
Honhorst, Joseph, Co., Cincinnati, O.
Howes, S. M. Co., 44 Union, Boston, Mass.
Keller, A. E. (Masons'), 136 Beekman, New York
Indianapolis Corrugating Co., Indianapolis, Ind.
Littleford Bros., 453 E Pearl, Cincinnati, O.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. J.
**UNION ELEVATOR & MACHINE CO.** ("Blazer"), 215 W Ontario, New York. (See adv. index, end of book)
White, Chas. H. Heating Co., 22 Bowker, Boston, Mass.
**WILSON, F. CORTEZ & CO., 239 Lake, Chi**cago, Ill. (See adv. index, end of book)

## 9931– Salamandorite

**JOHNS, H. W.-MANVILLE CO.** (A New Fireproof Paneling for Interior Decorative Work), 100 William, New York. (See adv. index & branch offices, end of book)

## 9932– Sal-Ammoniac

Allen, L. B. Co. (Battery & Commercial Brands), 1123 Columbia av, Chicago, Ill.
Barrett Mfg. Co., 17 Battery pl, New York
Cochrane Chemical Co., Boston, Mass.
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Klipstein, A. & Co. (For Galvanizing, Soldering, etc.), 122 Pearl, New York
Roessler & Hasslacher Chemical Co., 100 William, New York
Sholes, Chas. E. Co., 164 Front, New York
Tennant Sons & Co. (Importers), 76 William, New York
Thomsen Chemical Co., Baltimore, Md.
Wiarda, John C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 9933– Sal-Soda

American Chemical Co., Cincinnati, O.
Church & Dwight Co. (Also Concentrated Sal-Soda), 63 Wall, New York
Commercial Acid Co., St. Louis, Mo.
General Chemical Co., 25 Broad, New York
Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Penna. Salt Mfg. Co. (Also Laundry Soda), 115 Chestnut, Phila., Pa.
Sholes, Chas. E. Co., 164 Front, New York
Vera Chemical Co., North Milwaukee, Wis.
Wiarda, John C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 9934 Salt Cake

Commercial Acid Co., St. Louis, Mo.
Contact Process Co., Buffalo, N. Y.
General Chemical Co. (Glass Makers), 25 Broad, New York
Grasseli Chemical Co. (For Glass Makers), Cleveland, O., & 60 Wall, New York
Penna. Salt Mfg. Co. (Refined, For Glass Makers), 115 Chestnut, Phila., Pa.
Sholes, Chas. E. Co., 164 Front, New York
United Zinc & Chemical Co., Kansas City, Mo.

## 9935– Salt Mfrs.

Barton Salt Co., Hutchinson, Kan.
Beck, J. A. & Co., N S, Pittsburg, Pa.
Bevis Rock Salt Co., 421 Olive, St. Louis, Mo.
Bliss & Van Auken, Saginaw, Mich.
Bradley, N. B. & Sons, Bay City, Mich.
Braud & Hardin Milling Co., Saginaw, Mich.
Buckeye Salt Co., Pomeroy, O.
Butters Salt & Lumber Co., Buttersville, Mich.
Carey Salt Co., Hutchinson, Kan.
Carrington, B. W. & Co., Dallas, Tex.
Cleveland Salt Co., 2295 Ashland rd, Cleveland, O.
Colonial Salt Co., Akron, O.
Colorado Salt Co, Colorado, Tex.
Crystal Flake Salt Co., Marine City, Mich.
Davidson-Wonsey Co., Marine City, Mich.
Delray Salt Co., Detroit, Mich.
Dennis Bros., Grand Rapids, Mich.
Desert Crystal Salt Co., White Plains, Nev.
Detroit Salt Co., Penobscot bldg, Detroit, Mich.
Diamond Crystal Salt Co., St. Clair, Mich.
Dickinson, J. Q. & Co., Malden, W. Va.
Eastern Salt Co., 186 State, Boston, Mass.
Eddy Bros. & Co., Bay City, Mich.
Ellsworth Salt Co., Ellsworth, Kan.
Empire Coarse Salt Co., Syracuse, N. Y.
Grand Saline Salt Co., Grand Saline, Tex.
Hardin, D. Co., Saginaw, Mich.
Hartford City Salt Co., Hartford, W. Va.
Hutchinson Kansas Salt Co., Hutchinson, Kan.
Independent Salt Co., 332 E 103rd, New York
Inland Crystal Salt Co., Salt Lake City, Utah
International Salt Co. (of New Jersey), 2 Rector, New York
International Salt Co. (of New York), Scranton, Pa.
Iroquois Salt Co., Buffalo, N. Y.
Kneeland-Biglow Co., Bay City, Mich.
Ludington Salt Co. (of Milwaukee), Milwaukee, Wis.
Mershon, Eddy, Parker Co., Saginaw, Mich.
Michigan Salt Ass'n, Bay City, Mich., & Saginaw, Mich.
Michigan Salt Works, Marine City, Mich.
Morton Salt Co., Railway Exch bldg, Chicago, Ill.
Myles Salt Co. (Ltd.), 100 Common, New Orleans, La., & Weeks, La.
North American Chemical Co., Bay City, Mich.
Ohio Salt Co., Wadsworth, O., & 17 Hudson, New York
Onondoga Coarse Salt Assn., Syracuse, N. Y.
Peninsular Salt Co., Ecoise, Mich.
Pennsylvania Salt Mfg. Co., Natrona, Pa., & 115 Chestnut, Phila., Pa.
Peters, R. & G. Salt & Lumber Co., East Lake, Mich.
Port Huron Salt Co., Port Huron, Mich.
Rock Glen Salt Co., Warsaw, N. Y.
Salina Solar Coarse Salt Co., Syracuse, N. Y.
Snow Flake Salt Co., 113 Fulton, New York
Southern Salt Co., Dallas, Tex.
Stagel Salt Co., Pomeroy, Ohio
Standard Salt & Cement Co., Duluth, Minn.
Stearns, Justus, Ludington, Mich.
Stearns Salt & Lumber Co., Ludington, Mich.
Sterling Salt Co., 23 Beaver, New York
Union Ice & Salt Co., Hutchinson, Kans.
Union Salt Co., Cleveland, O.
Wadsworth Salt Co., Wadsworth, O.
Watkins Salt Co., Watkins, N. Y.
Western Rock Salt Co., 421 Olive, St. Louis, Mo.
Western Salt Co., San Diego, Cal.

## 9936– Saltpetre

Baker, H. J. & Bro. (Calcutta), 100 William, New York
Battelle & Renwick (Refined), 163 Front, New York
Croton Chemical Co., 14 Cedar, New York
**du PONT, E. I. de NEMOURS POW**der Co., Wilmington, Del. (See adv. index & branch office, end of book)
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Mortimer & Wisner (Brokers), 68 Beaver, New York
White, Thos. H. & Co. (Brokers), Baltimore, Md.

## 9937– Salts (Chemical)

Baker & Adamson Chemical Co. ("C. P."), Easton, Pa.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Merrimac Chemical Co. ("Glauber's"), Boston, Mass.
Sandoval Zinc Co., 410 N Peoria, Chicago, Ill.

## 9938– Salts (Copper)

Hanson & Van Winkle Co., Newark, N. J.

## 9939– Salts (Epsom)

Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.

## 9940– Salts (Glauber's)

American Chemical Co., Cincinnati, O.
Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
General Chemical Co. (And Nitre Cake), 25 Broad, New York
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Jobbins, Wm. F. (Inc.), Aurora, Ill.
Merrimac Chemical Co., Boston, Mass.
Naugatuck Chemical Co., Naugatuck, Conn.
Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Powers-Weighman-Rosengarten Co., Phila., Pa.
Sholes, Chas. E. Co., 164 Front, New York.
Thomsen Chemical Co., Baltimore, Md.
United Zinc & Chemical Co., Kansas City, Mo.
Wiarda, John C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 9941– Salts (Nickel)

Fuerst Bros. & Co., 2 Stone, New York
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Levett Mfg. Co., Matawan, N. J.
Wiarda, John C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 9941a– Salts (Platinum)

**AMERICAN PLATINUM WKS, Chest**nut st & N. J. R. R. av, Newark, N. J. (See adv. index, end of book)

## 9942– Samplers (Grain)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
Dillon Box Iron Works, Co., Denver, Col.
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
Moore & Lorenz Co., 814 Fulton, Chicago, Ill.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 9943– Samplers (Ore)

Braun Corporation, Los Angeles, Cal.
Denver Engineering Works Co., Denver, Colo.
Denver Fire Clay Co. ("Jones" "Core"), Denver, Colo.
Traylor Engineering Co., Allentown, Pa.

## 9943a– "Sanaloid" Interior White

**SANALOID, 930 N. 3rd, Phila., Pa.**

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## 9944—Sand Blast Equipment

**SMITH, J. D. FOUNDRY SUPPLY CO.** (Complete Installations), 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

## 9945—Sand Boxes (Golf Course)

**BALTIMORE COOPERAGE CO., THE,** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 9946— Sand (Core)

(See also Sand, Molders or Foundry)

Beson Bros. Sand Co., Ottawa, Ill.
Detroit Core Sand Co., Detroit, Mich.
Newport Sand Bank Co., Newport, Ky.
Utica Fire Sand Co., Utica, Ill.
Valentine, H. D. & Bro., Woodbridge, N. J.
Whitehead Bros. Co., 537 W 27th, New York

## 9947—Sand Excavating & Screening Plants (Portable)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 9948— Sand (Filtering)

**Cape May Sand Co.,** Cape May, N. J.
Hygeia Filter Co., Detroit, Mich.
**NEW YORK CONTINENTAL JEWELL** Filteration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

## 9949— Sand (Furnace)

Utica Fire Sand Co., Utica, Ill.

## 9950—Sand (Glass Makers')

**Berkshire Glass Sand Co., Cheshire, Mass.**
Bidwell, R. O., South Vineland, N. J.
Brenan, J. T., Robinson, Md.
Crystal Sand Co., Bridgeton, N. J.
Derry Glass Sand Co., Latrobe, Pa.
Glass Sand Co., Emlenton, Pa.
Holland Stone & Glass Sand Co., Holland, O.
Kentucky Silica Co., Louisville, Ky.
Pacific Glass Sand Co., Pacific, Mo.
Pennsylvania Glass Sand So., 341 4th av, Pittsburg, Pa.
Reynolds, E. J. & Co., Utica, Ill.
Tavern Rock Sand Co., St. Louis, Mo., & Pacific, Mo.
Toledo Stone & Glass Sand Co., Toledo, O.
Utica Fire Sand Co., Utica, Ill.
Vineland Glass Sand Co., Bridgeton, N. J.
Winfield Sand Co., 421 Wood, Pittsburg, Pa.
Wister, L. & R. & Co., Bullitt bldg, Phila, Pa.

## 9951—Sand Handling Plants

**Bergen Point Iron Works, Bayonne, N. J.**
**CLEVELAND CRANE & ENGINEERING** Co., Wickliffe, O. (See adv. index, end of book)
**Heyl & Patterson, Pittsburg, Pa.**
**McMyler-Interstate Co.,** 1799 Columbus rd, Cleveland, O.
**PITTSBURG CONVEYING MACHINERY** Co., Pittsburg, Pa. (See adv. index, end of book)

## 9952—Sand (Molding or Foundry)

(See also Foundry Facings & Supplies)

Albany Sand & Supply Co., Albany, N. Y.
Ayres Mineral Co., Zanesville, O.
Ballou's White Sand Co., Millington, Ill.
Beach City Silica Sand Co., Canton, O.
Beson Bros. Sand Co., Ottawa, Ill.
Bidwell, R. O., South Vineland, N. J.
Brown, I. K., Zanesville, O.
Buckeye Products Co., Cincinnati, O.
Buckeye Sand Co., Pittsburg, Pa.
Burdell Silica Sand Co., Dundee, O.
Culin, Henry D., Hawesport, N. J.
Detroit Core Sand Co. (Core Sand), Detroit.
Detroit Fdry Sand Co., Detroit, Mich. Mich.
Enterprise Sand Co., Pittsburg, Pa.
Evers, Jno., Waterford. N. Y.
Federal Foundry Supply Co., Cleveland, O.
Garden City Sand Co., Chamber of Commerce bldg., Chicago, Ill.
Guiler, Jno. A., Connellsville, Pa.
Haedrich, E. M., Merchant bldg, Phila., Pa.
Illinois Valley Sand Co. (Cleaned & Dried), Ottawa, Ill.
Interstate Sand Co. ("Zanesville"), Zanesville,
Jackson Sand Mining Co., Jackson, O. Ohio
Kentucky Silica Co., Louisville, Ky.
Keystone Foundry Supply Co., Buffalo, N. Y.
Lake Shore Sand Co., 138 Wash'n, Chicago, Ill.
McCormick, J. S. Co., Pittsburg, Pa.
McKinney Sand Co., Zanesville, O.
Manufacturer Supply House, Erie, Pa.
Massillon Sand & Stone Co., Massillon, O.
Meyers Bros., New Philadelphia, Pa.
Milan Sand Co., Milan, O.
Monarch Sand Mining Co. ("Delhi"), Newport, Ky.
Mont Alto Sand Co., Waynesboro, Pa.
Newport Sand Bank Co., Newport, Ky.
New York Sand Facing Co., 106 Grand av, Brooklyn, N. Y.
Ohio Sand Co., Conneaut, O.
Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
Pettinos Bros., Bethlehem, Pa.
Rapp, A. P. Co., Phillipsburg, N. J.
Raritan Ridge Clay Co., Metuchen, N. J.
**STANDARD SAND & MACHINE CO.,** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Squier, Ed. E., St. Louis, Mo.
Stevens, Frederic B., Detroit, Mich.
Superior Sand Co., Cleveland, O.
Tuscora Sand Co., Somerdale, O.
Tuscarawas Sand Co., New Cumberland, O.
United States Silica Co., Chicago, Ill.
Utica Fire Sand Co. (Steel Molding & Core Sand), Utica, Ill.
Valentine, H. D. & Bro. (Core Sand), Woodbridge, N. J.
Waldo Bros., 102 Milk, Boston, Mass.
Webster Foundry Sand Co., 961 N Delaware av, Phila., Pa.
Whitehead Bros. Co. (Albany, French, Fire. Core, etc.), 537 W 27th, New York
Wister, L. & R. & Co., Bullitt bldg, Phila., Pa.

## 9953— Sand (Pure White)

Columbia Brick & Plaster Co. (For Plaster, Scouring Soap & for Filler, etc.), North East, Md.
Raritan Ridge Clay Co. (Fine White & Yellow Kiln-Setting), Metuchen, N. J.

## 9954—Sand (Sand Blast)

Albany Sand & Supply Co., Albany, N. Y.
Cape May Sand Co., Cape May, N. J.
Farnham, Neal (Inc.), 1 Madison av, New York
Hill & Griffith Co., Cincinnati, O.
Jackson Sand & Mining Co., Jackson, O.
Obermayer, S. Co., Cincinnati, O.
Pangborn, Thos. W. Co., 90 West, New York
**SMITH, J. D. FOUNDRY SUPPLY** Co., 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)
Squier, Edw. E. Co., St. Louis, Mo.
United States Silica Co., 125 Monroe, Chicago, Ill.
Whitehead Bros. Co., 537 W 27th, New York

## 9955— Sand (Silica)

Beach City Silica Sand Co., Canton, O.
Bean Silica Sand Co. (Silica Rock Fire Sand), Valley Forge, Pa.
Burdell Silica Sand Co., Dundee, O.
Central Silicia Co., Zanesville, O.
Columbia Silica Co., Portage, Wis.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Dunbar Sand Mfg. Co., Dunbar, Pa.
Dundee Silica Sand Co., Dundee, O.
Enterprise Silica Sand Co., Bellaire, O.
Everhard Co., Massillon, Ohio
Franklin Silica Sand Co., Franklin, Pa.
Garden City Sand Co. (Also White), Chamber of Commerce bldg, Chicago, Ill.
Greenville Silica Sand Co., Greenville, Pa.
Kentucky Silica Co., Louisville, Ky.
MacKay, A. D. & Co., 164 Dearborn, Chicago, Ill.
Massillon Sand & Stone Co., Massillon, O.
Ottawa Silica Co. (Washed White Flint Sand), Ottawa, Ill.
Penn, Wm. Silica Works, William Penn P. O., Phila., Pa.
Pennsylvania Glass Sand Co. (White Rock), 341 4th av, Pittsburg, Pa.
Perth Amboy Fire Brick Co., 114 Liberty, New York
Pettinos Bros. ("Millville"), Bethlehem, Pa.
Portage Silica Co., Youngstown, O.
Red Wing Filter Sand Co., Red Wing, Minn.
Squier, Ed. E. Co., St. Louis, Mo.
Temple Sand Co., Reading, Pa.
U. S. Silica Co. (Washed White Flint Sand), 125 Monroe, Chicago, Ill., & Ottawa, Ill.
Vulcan Fire Brick Co., Baltimore, Md.
Warner, Chas. Co., Wilmington, Del., & Land Title bldg, Phila., Pa.
Winfield Sand Co., 421 Wood, Pittsburg, Pa.
Wister, L. & R. & Co., Bullitt bldg, Phila., Pa.

## 9956—Sand (Stone Sawing)

Utica Fire Sand Co., Utica, Ill.

## 9957— Sand Washers

**OSBORN MFG. CO., 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)**
Power & Mining Machinery Co., Cudahy, Wis.
**RANSOME CONCRETE MACHINERY CO.,** Dunellen, N. J. (See adv. index & branch offices, end of book)
Stocker Concrete Material Washer Co., Highland, Ill.

## 9958—Sand & Gravel Dealers

**Aetna Sand & Gravel Co., 6434 Eggleston, Chicago, Ill.**
American Sand & Gravel Co., Chamber of Commerce bldg, Chicago, Ill.
**Arundel Sand & Gravel Co. (Washed Gravel & Sand), Fidelity bldg, Baltimore, Md.**
Atlantic Coast Sand Co. (Sea Sand), 1 B'way, New York
**Atwood-Davis Sand Co., 135 Adams, Chicago, Ill.**
Banner Coal & Sand Co., 4560 Audubon av, St. Louis, Mo.
Bean, Francis M. (Fire), Valley Forge, Pa.
**Beaver-Creek Sand Co. (Sand Only), Leetonia,**
Redford & Nugent, Evansville, Ind. O.
Berkley Sand Co., Berkley Springs, W. Va.
Bidwell, R. O. (Glass, Furnace, Kiln Dried & Placing Sand & Gravel), South Vineland, N. J.
Bos, John N., 473 Chrystal, Chicago, Ill.
Brooks, Wm., 615 W 49th, New York
Buckeye Dredging Co. (Sand & Pea & Roofing Gravel), Columbus, O.
Builders' Sand Co., Kansas City, Mo.
**Bull Creek Sand & Gravel Co. (Washed Gravel & Sand), Columbus, Ga.**
Campbell, Bernard & Co., 268 W 34th, New York
**Cape May Sand Co., Cape May, N. J.**
Clarke, Wm. Wirt & Sons, 115 S Gay, Baltimore, Md.
Chicago Gravel Co., 279 Dearborn, Chicago, Ill.
Clarke, Wm. Wirt & Son, Monument and Forrest, Baltimore, Md.
Connellsville White Sand Co., Connellsville, Pa.
Colorado Gravel Co., Houston, Texas
Colorado Sand & Gravel Co., Stock Ex. bldg, St. Louis, Mo.
Crescent Sand & Gravel Co., Part Washington,
Davis, John A., Boston, Mass. N. Y.
De Frain Sand Co., Beach & Berks, Phila., Pa.
DeGrott, Jas. J. A., Jonespoint, N. Y.
Decker, C. & Son, Irvington, N. J.
Detwiler Sand Co. (Dealers), York, Pa.
Dolese Bros. Co. (Kaw River Sand), 78 La Salle, Chicago, Ill.
Donnelly & Dovey Construction Co., Union Trust bldg, Cincinnati, O.
Dunbar Sand Mfg. Co., Dunbar, Pa.
Enterprise Sand & Gravel Co., Quincy, Ill.
Erie Sand & Gravel Co., Erie, Pa.
Everhard Co., Massillon, Ohio
Flanagan Bros., Kansas City, Mo.
Fox River Sand Co. (Sand), Welden, Ill.
Fox & Holloway, 252 Pearl, Buffalo, N. Y.
Galveston, Harrisburg & Houston Transportation Co., Houston, Tex.
Garden City Sand Co., Chamber of Commerce bldg, Chicago, Ill.
Godfrey, N. W., Port Eaton, N. Y.
Golden Gate Brick Co., San Frnacisco, Cal.
Golder, Jas. F., Millville, N. J.
Goodwin Sand & Gravel Co., 71 B'way, New York
Haedrich, E. M., 311 Walnut, Phila., Pa.
Halliday, H. H. Sand & Gravel Co., Cairo, Ill.
Harrison Bros. Co., Tacoma, Wash.
Hedges Sand & Gravel Co., Houston, Texas
Homegardner Sand Co., Sandusky, O.
Hunkins-Willis Lime & Cement Co., St. Louis, Mo.
Illinois Beach Sand & Gravel Co., 100 Washington, Chicago, Ill.
Illinois Valley Sand Co. (Cleaned & Dried Sand), Ottawa, Ill.
**Independence Gravel Co. (Flint Mine Screenings for Concrete & Asphalt Work), Webb**
Indiana Gravel Co., Attica, Ind. **City, Mo.**
Ingram, W. T., Jeffersonville, Ind.
**Iron City Sand Co., Pittsburg, Pa.**

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Keating, J. L. & Co., 236 E 35th, New York
Kelley Island Lime & Transport Co. (Washed Sand, etc.), Cleveland, O.
**King, J. B. & Co., 17 State, New York**
**Lake County Gravel Co., Libertyville, Ill.**
Lake Erie Sand Co., Sandusky, O.
**Lake Sand Co., 638 Kingsbury, Chicago, Ill.**
Lake Shore Sand Co., 138 Wash'n, Chicago, Ill.
**Lund, George, Milwaukee, Wis.**
Mackinaw Sand & Gravel Co., Lincoln, Ill.
Maryland Lime & Cement Co., 421 S Central av, Baltimore, Md.
Manasquan Granite Co., Asbury Park, N. J.
Meramec Portland Cement & Material Co., St. Louis, Mo.
Metropolitan Sand Co., Kansas City, Mo.
Millington White Sand Co., Millington, Ill., & Cleveland, O.
Millwood White Sand Co. (White), Jackson, O.
**Milwaukee Sand & Gravel Co., Milwaukee, Wis**
**Monmouth Gravel Co., Allenwood, N. J.**
Mont Alto Sand Co., Waynesboro, Pa.
Mound City Gravel, Material & Contracting Co., Holland bldg, St. Louis, Mo.
Murray & Co. (Rockaway), 263 Av C, New York
**Murray & Reid Co., 17 State, New York**
N. Y. Sand & Gravel Co., 320 B'way, New York
**Nyack Trap Rock Co., Nyack, N. Y.**
O'Brien Bros. (Gravel), 54 South, New York
Ohio River Sand Co., Louisville, Ky.
Pangborn, Thos. W. Co. (Sand), 90 West, New York
Perth Amboy Fire Brick Co., **114 Liberty, New York**
Peoples Bros. (Bar, White & Washed), 2508 Callowhill, Philadelphia Pa.
**Perryville Gravel Co., Perryville, Tenn.**
Perth Amboy Fire Brick Co. (Building Sand), 42 Bway, New York, & Perth Amboy, N. J.
Phoenix Towing & Transportation Co., 17 State, New York
Pierson, Dudley, Springfield, O.
Pioneer Sand Co. (River Sand, etc.), St. Joseph, Mo.
Pioneer Sand & Gravel Co., Seattle, Wash.
Portage Silica Co., Youngstown, O.
**Potomac Dredging Co. (Washed Gravel & Sand), Washington, D. C.**
Purdy, A. F. & Co. (Glass Sand), Bernhards Bay, N. Y.
Quincy Sand Co., Quincy, Ill.
Rapp, A. C. & Co. (Sand Pits), Phillipsburg, N. J.
Reiske, Albert J., Milwaukee, Wis.
Reynolds, E. J. & Co. (Building Sand), Utica, Ill.
Richards & Godard (Filter Sand), Holyoke, Mass.
Richardson Sand Co., 138 Wash'n, Chicago, Ill.
Ridgeview Sand Co., Oil City, Pa.
**Rockford Sand & Gravel Co., Rockford, Ill.**
**Rock Island Sand Co., Rock Island, Ill.**
**Rockland Sand & Gravel Co., Rockford, Ill.**
Rodgers Sand Co., Pittsburg, Pa.
Rosser Sand Co., Bellaire, O.
Savage-Scofield & Co., Tacoma, Wash.
Schmidt, C. August, 1539 La Fayette Parkway, Chicago, Ill.
Seacoast Gravel Co., **Allenwood, N. J.**
Sherman & Martin, Lowell, Mass.
Shoemaker, Reed & Co., Greensburg, Pa.
Smith, Clarence L. Co., 11th av & 30th, New York
Southern Gravel & Material Co. **(Washed Gravel & Sand), Brookhaven, Miss.**
Standard Sand Co., Altoona, Pa.
**STANDARD SAND & MACHINE CO., 5157 St. Clair, Cleveland, O. (See adv. index, end of book)**
Star Sand Co., Portland, Ore.
Squier, Ed. E. & Co., St. Louis, Mo.
Stewart-Peck Sand Co., Kansas City, Mo.
Tecumseh Gravel Co., Tecumseh, Mich.
Thomas, Hugh Co., 340 E 64th, New York
Union Sand & Material Co., St. Louis, Mo.
Utica Fire Sand Co. (Furnace, Glass, Molding, Core, Sawing & Washed Fire Sand), Utica, Ill.
Vanderbilt, Jacob, Hoboken, N. J.
Wabash Sand & Gravel Co., Terre Haute, Ind.
Warner, Chas. Co. (Wholesale & Retail), Wilmington, Del., & Land Title bldg, Phila., Pa.
Washed Sand & Gravel Co., Minneapolis, Minn.
Webster Foundry Sand Co., 961 N Delaware av, Phila., Pa.
**Wedron White Sand Co., Wedron, Ill.**
Wetter Steel Sand Co., Massillon, O.
Whitehead Bros. Co., 537 W 27th, New York
**Winfield Sand Co., 421 Wood, Pittsburg, Pa.**
Wister, L. & R. & Co., Bullitt bldg, Phila., Pa.
Yowler, C. D., Connellsville, Pa.

## 9959—Sand & Gravel Heaters & Dryers

(See also Dryers, Various Kinds)

**Adt, Jno. B., 332 N Holliday, Baltimore, Md.**
American Process Co. (Street Railway), 62 William, New York
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index & branch offices, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Connery & Co., 9th & Master, Phila., Pa.
**CUMMER, F. D. & SON CO., The** Arcade, Cleveland, O. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co. ("Champion"), St. Louis, Mo.
Honhorst, Joseph, Co. (Gravel Dryers), Cincinnati, O.
Horton Mfg. Co., Painesville, O.
Indiana Foundry Co., Ltd ("Sutton" Drier), Indiana, Pa.
Iroquois Iron Works, Buffalo, N. Y.
**KENNICOTT CO., Sales office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Littleford Bros., Cincinnati, O.
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)
Martin, Henry, Brick Machine Mfg. Co. **(Sand Dryers), Lancaster, Pa.**
Obermayer, S. Co., Cincinnati, O.
**Pioneer Iron Wks., 149 Pioneer, Brooklyn, N. Y.**
Punxsutawney Foundry & Machine Co. (Sand Dryers), Punxsutawney, Pa.
Renneburg, E. & Sons Co., **Baltimore, Md.**
**RUGGLES-COLES ENGINEERING CO.** (Dryers), 48 Church, New York. (See adv. index & branch offices, end of book)
Schalkenbach & Budke (Gravel Heaters), **Jersey City, N. J.**
**STANDARD SAND & MACHINE CO.** (Sand Dryers), 5157 St. Clair, Cleveland, O. (See adv. index, end of book)

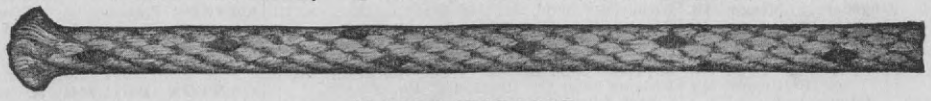
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Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Universal Road Machinery Co., Kingston, N. Y.
Wellington Machine Co., Wellington, O.
Zelnicker, Walter A., Supply Co. ("Zelnicker" Handy), St. Louis, Mo.

## 9960–Sand & Gravel Plants (Complete)

Stephens-Adamson Mfg. Co., Aurora, Ill.

## Sanders (Track)

(See Locomotive Sanders)

## 9961–Sap Stain Preventative

**Church & Dwight Co. ("Zenith," Carbonating Anti-Sap Stain Powder), 63 Wall, New York**
**Mathieson Alkali Works ("Eagle," "Thistle Brand" for Prevention of Sap-Stain or Bluing of Timber), Providence, R. I.**

## 9962– Saponifier

**Penna.** Salt Mfg. Co., 115 Chestnut, Phila., Pa.

## 9963– Sash Balance Mfrs.

**Caldwell Mfg. Co., Rochester, N. Y.**
**Coleman Hardware Co. ("The Shumard"), 168 Michigan av, Chicago, Ill**
**Edwards, O. M. Co. (Railroad Car, also Tin Barrel Spring), Syracuse, N. Y.**
Gardner Sash Pulley Co., 40 Dearborn, Chicago, Ill
General Railway Supply Co. ("Perfection"), 204 Dearborn, Chicago, Ill.
National Lock Washer Co., Newark, N. J.
**Pullman Mfg. Co. ("2 in 1"), Rochester, N. Y.**
**Rochester Sash Lock Co., Rochester, N. Y.**
Stearns, E. C. & Co. ("Vanderbilt"), Syracuse, N. Y.

## 9963a– Sash Bars (Steel)

**BRAUN, J. G. (Plain & Ornamental), 615 S Paulina, Chicago, Ill., & 537 W 35th, New York.** (See adv. index, end of book)

## 9964–Sash Bolt & Support

**Smith & Egge Mfg. Co. ("Kings"), Bridgeport, Conn.**

## 9964a–Sash Bolts (Ventilating)

Gardner Sas Pulley Co., 40 Dearborn, Chicago, Ill.

## 9965– Sash Cord Mfrs.

**American Mfg. Co.** (Hemp), 63 Wall, New York.
**Anniston Cordage Co.** (Braided), Anniston, Ala.
**CARPENTER, GEORGE B. & CO.** ("Anneston" and "Spot" Braided Cotton), 202 S Water, Chicago, Ill. **(See adv. index, end of book)**
Charlotte Cordage Co. (Braided), Charlotte, N. C.
**COLUMBIAN ROPE CO., Auburn,** N. Y., & 62 South, New York. **(See adv.** index, end of book)
Draper, W. H. & Son (Twisted Cotton), Troy.
Estes Mills (Inc.), Fall River, Mass. N. Y.
**Faber, Thos. & Son, Weston, Mass.**
Franklin Cotton Mill Co., Cincinnati, O.
**Fricke, J. E. Co. ("Jefferson" Solid Braided Cotton), 253 Market, Phila., Pa.**
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
**Hooper, Wm. E. & Sons Co., Baltimore, Md.**
Hooven & Allison Co., Xenia, O.
**Mallison Braided Cord Co., Athens, Ga.**
Ossawan Mills Co., Norwich, Conn.
Paton, Wm. (Ltd.), North Grafton, Mass.
Puritan Cordage Mills ("Regal Braid"), Louisville, Ky.
**SAMSON CORDAGE WORKS (Braided, etc.),** 88 Broad, Boston, Mass. **(See adv.** index, end of book)
Schlichter Jute Cordage Co. (Jute), 20 N. Front, Phila., Pa.
**SILVER LAKE CO. (Braided, etc.).** 78 Chauncy, Boston, Mass. (See adv. index, end of book)
**Tucker & Carter Rope Co. ("Stanly" Braided Cotton Sash Cord), 76 South, New York**
**Wall Rope Works, 56 South, New York**
Whittier-Mills Co. ("W. S.", Cotton Braided), Chattahooche, Ga.

## 9966–Sash Cord Mfrs. (Steel Wire)

**AMERICAN STEEL & WIRE CO.** (Tinned & Coppered), Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
De Witt Wire Cloth Co., 299 B'way, New York
**LESCHEN, A. & SONS ROPE CO.** (Tinned & Coppered Steel Wire), 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. **(See adv. index & branch offices, end of book)**
Trenton Iron Co., Trenton, N. J., & 30 Church, New York
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 9967–Sash (Greenhouse & Hot Bed)

Hyde-Murphy Co., Ridgway, Pa.
Jacobs, S. & Sons, 1365 Flushing av, Brooklyn,
Lochland Lumber Co., Lochland, O. N. Y.
Lord & Burnham Co., 1133 B'way, New York
Selden Cypress Door Co., Palatka, Fla.
Smith, Jos. M. Co., 15 Nassau, Newark, N. J.
**STEARNS, A. T. LUMBER CO., Neponset,** Boston, Mass. (See adv. index, end of book)
**Sunlight Double-Glass Sash Co., Louisville, Ky.**
Woodbury Mill Lumber Co., Woodbury, N. J.

## Sash Line

(See Sash Cord Manufacturers)

## Sash (Metallic)

(See Window Frame & Sash, Metallic)

## 9967a–Sash Opening Apparatus

(See Sash Operating Device; also Ventilating Apparatus for Power Houses, Etc.)

## 9968–Sash Operating Device

Cassidy, Isaac, Newark, N. J.
Dearborn Hardware Mfg. Co. ("Standard," "Ideal," "Reliance" & "Triumph" Roller Bearings), 2911 Carroll av, Chicago, Ill.
**DROUVE, G. CO., Bridgeport, Conn.** & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)
Hitchings & Co., 1170 B'way, New York
Lord & Burnham Co., 1133 B'way, New York
Payne, John A., Jersey City, N. J.
**Payson Mfg. Co. ("Harris"), 2918 W Jackson boul, Chicago, Ill.**
Thorn, J. S. Co. ("Brand"), 20th & Allegheny av, Phila., Pa.
Weiss, Henry Cornice Co., Kansas City, Mo.
Wolf Machine Co., Dayton, O.

## Sash Pulley Mortiser

(See Pulley Mortising Machines)


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## 9969— Sash Ribbon

Caldwell Mfg. Co. (Aluminum Bronze), Rochester, N. Y.
Gardner Sash Pulley Co. ("Gardner's" Steel), 40 Dearborn, Chicago, Ill.
Pullman Mfg. Co. (Aluminum Bronze & Attachments), Rochester, N. Y.

## Sash (Steel)

(See Window Frame & Sash, Wrought Steel)

## Sash (Storm)

(See Storm Doors & Windows)

## 9970— Sash Weights

Acme Sash Weight & Foundry Co. ("Acme"), Calhoun, Tenn.
Allen, Edgar American Manganese Steel Co. (Cast Iron), 193 Michigan av, Chicago, Ill.
Austin & Eddy, 117 Broad, Boston, Mass.
Barber Mfg. Co. (Cast Iron), Ashtabula, O.
Bates, Jas. Sons, Pratt & President, Baltimore, Md.
Best Mfg. Co. ("Walda" Sectional), Pittsburg, Pa.
Birmingham Boiler Works, Birmingham, Ala.
Birmingham Sash Weight Co., Birmingham, Ala.
Blatchford, E. W. Co. (Lead), 230 N Clinton, Chicago, Ill.
Brown, E. E. & Co. (Iron), McKeon & Meadow, Phila., Pa.
Burditt & Williams Co., Boston, Mass.
Caldwell & Drake Iron Works (Inc.) ("Rohrer's" Sectional), Columbus, Ind.
Chadwick-Boston Lead Co. (Lead), Boston, Mass.
Cheney, S. & Son (Cast), Manlius, N. Y.
Connecticut Cord Iron Corp., Norwich, Conn.
Detroit Lead Pipe & Sheet Lead Works (Lead), Detroit, Mich.
De Ved & Sons, Sash Weight Co., Baltimore, Mo.
Drummond Mfg. Co. (Cast Iron), Louisville, Ky.
Etna Foundry Co., Etna, Pa.
Germania Supply & Foundry Co., Covington, Ky.
Gibson & Price Co. (Lead), Cleveland, O.
Hichok, W. O. Mfg. Co. (Cast Iron), Harrisburg, Pa.
Janney & Co., Montgomery, Ala.
Johnston & Jennings Co., Cleveland, O.
Keagy & Lear Machine Co., Coshocton, O.
King & Andrews Co. (Iron), Chicago Heights, Ill.
Kings County Iron Foundry Co. (Lead, etc.), N 13th & Berry, Brooklyn, N. Y.
Levering Bros., Baltimore, Md.
Lewis, Jno. T. & Bros. Co. (Lead), 231 S Front, Phila., Pa.
Madison Foundry Co. ("Acme"), Cleveland, O.
Mesker, Geo. L. & Co. (Cast Iron), Evansville, Ind.
National Foundry Co. ("Perfection", Car Lots a Specialty), Youngstown, O.
National Lead Co. (Lead), 111 B'way, New York
Over, Ewald (Round & Square, Iron & Lead), 426 S Penn, Indianapolis, Ind.
Paxton & Verling Iron Works (Iron), Omaha, Neb.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Raymond Lead Co. (Lead), 735 N Washtenaw av, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Robertson, Jas. Mfg. Co. (Lead), Baltimore, Md.
Rochester Lead Works (Lead), Rochester, N.Y.
Ross, W. A. & Bro. ("Groove Eye" Elevator, Dumbwaiter, Lead Sash, etc.), 11 S William, New York
Selby Smelting & Lead Co. (Lead), San Francisco, Cal.
Southern Foundry & Machine Co., Knoxville, Tenn.
Sprecher Mfg. Co., Ephrata, Pa.
Standard Foundry Co., Buffalo, N. Y.
Tatham & Bros. (Lead), 261 Water, New York, & 226 S 5th, Phila., Pa.
Thompson Mfg. Co., Lancaster, N. H.
Union Iron Works, Houston, Tex.
Vulcan Detinning Co. (Iron), 114 Liberty, New York
Waterbury Foundry Co., Waterbury, Conn.
Western Foundry & Sash Weight Co. (Cast Iron), 159 Miller, St. Louis, Mo.
Windsor Mfg. Co. (Lead), Milwaueke, Wis.

## 9971—Sashes, Doors & Blinds

(Firms who have no mark in front of Names and also those indicated by a (*) Star are Manufacturers; those indicated by a (†) Dagger are Dealers)

### ALABAMA.

ANNISTON—*Houser, C. J., 431 W 16th
BIRMINGHAM—*Standard Mfg. Co.
CULLMAN—*Arnold, Casper & Son
DECATUR—*Jervis Lumber Co.
DOTHAN—*Mirkle & Whitton
ENSLEY—*Arnold Lumber Co.
FLORENCE—*Acme Lumber & Mfg. Co.
GADSDEN—*Southern Mfg. Co.
HUNTSVILLE—*Plummer, G. A.
MOBILE—*Builders' Supply Co.
*Dixie Lumber Co.
*Turner, F. O. & Co.
MONTGOMERY—*Southern Sash & Door Co.

### ARIZONA TERRITORY.

TUSCON—*Arizona Sash, Door & Mill Co.
*Tuscan Sash, Door & Planing Mill Co.

### ARKANSAS.

BRINKLEY—*Brinkley Car Works & Mfg. Co.
FORT SMITH—*Dyke Bros.
*Kenny Bros. (Wholesale)
*Mechanics Planing Mill Co.
LITTLE ROCK—Abeles, C. T. & Co., 215 Main
MORRILTON—Dowdie & Henley
PINE BLUFF—*Bluff City Lumber Co.
*Sanders, J. W.

### CALIFORNIA.

ALEMEDA—*Plummer, Geo. E. & Son
BAKERSFIELD—*Union Lumber Co.
BERKELEY—*Bruce Lumber & Mill Co.
EUREKA—*Eureka Sash, Door & Moulding
*Humboldt Door & Sash Co. Mill
FRESNO—*Madary Planing Mill (Inc.)
HOBART MILLS—*Sierra Nevada Wood & Lumber Co. (Wholesale)
LOS ANGELS—*Builders Supply Co.
*California Planing Mill & Lumber Co.
Consolidated Lumber Co., 614 Grosse bldg.
*Hughes Mfg. Co., 1430 S. Alameda.
*Kerchoff-Cuzner Mill & Lumber Co., 900 N. Alameda
*Los Angeles Planing Mill, 1812 Industrial
*National Lumber Co., Alemeda ft 20th
Raphael, H. Co. (Wholesale Dealers), 509
NAPA—*Corbett Bros. S Main
OAKLAND—*Burnham-Standeford Co., Wash'n c 1st
*California Door Co., c 16th & Wood
Oakland Sash & Door Co.
Pacific Coast Lumber & Mill Co. (Redwood & Oregon Pine, etc.), 2d c Grove
PASADENA—Kerckhoff-Cuzner Mill & Lumber Co.
*Pasadena Mfg. Co.
PETALUMA—Camm & Hedges Co.
Cavanaugh, Mrs. D.
PLACERVILLE—Beach. S. G. & Co.
SACRAMENTO—*Burnett & Sons
Frazer, E. F.
*Suter-Hevener Mill & Mfg. Co.
SAN DIEGO—*Graham, M. A. Mill Co.
*Russ Lumber & Mill Co.
SAN FRANCISCO—Burgess, C. W., 1715 Mission
California Door Co. (Wholesale Mfrs.),
California Mill Co., 645 Bryant
Eureka Sash, Door & Moulding Mill
Hammond Lumber Co. (Wholesale Mfrs.)
Hansen, M. & Co., 231 King
Holden-Deuprey Co.
Huber, Frank Son, York & Mariposa
Kittredge, H. & Co.
Moore, Robt. B., Mill & Lumber Co.
Sierra Nevada Wood & Lumber Co.
Wilson & Bro., 20 Drumm
SAN JOSE—*Chase, S. H. Lumber Co.
Hubbard & Carmichael Bros.
*Santa Clara Valley Mill & Lumber Co. (Wholesale)
SANTA ANA—Griffith Lumber Co.
Pendleton Lumber & Mill Co.
SANTA BARBRA—Union Mill Co.
SANTA CLARA—Pacific Mfg. Co. (Wholesale Mfrs.)
SANTA ROSA—Berka, Frank
STOCKTON—Enterprise Mfg. & Supply Co.
Simpson & Gray
Stockton Lumber Co.
Sunset Door & Sash Co. (Wholesale Mfrs.)
Thomas & Buell
Union Planing Mill Co.
VALLEJO—Peny Lumber Co.

### COLORADO.

COLORADO SPRINGS—Newton Lumber & Mfg. Co.
DENVER—English, R. W. Lumber Co., 51 Jacobson bldg
Hallack & Howard Lumber Co., Larimer
Sayre-Newton Lumber Co., 23d & Blake
GLENWOOD SPRINGS—Glenwood Lumber & Mfg. Co.

### CONNECTICUT.

BRIDGEPORT—Burritt, A. W. Co., Knowlton & Arctic
Miller, Frank Lumber Co.
DANBURY—Armstrong, I. & Co.
Foster Bros.
HARTFORD—Andrews & Peck Co., 88 Market
MERIDEN—Moorehouse Bros. Co.
MIDDLETOWN—Loewenthal, Gustav Co.
NEW BRITAIN—Rogers Sash & Door Co.
NEW HAVEN—Clark, David H. Co.
Curtis, C. B., 118 Winchester av
Gibbud, Morris J.
Hawthorne, Lewis Co.
Sperry & Amos Co.
NORWALK—*Malkin, A. R. & Co.
NORWICH—†Chappell, Edw. Co.
Crowell, F. C.
*Porter, H. B. & Son Co.
PUTNAM—Wheaton Building & Lumber Co.
STAMFORD—Hotchkiss Bros. Co.
St. John Wood Working Co.
WATERBURY—Brass City Lumber Co.
Smith, J. E. & Co., 65 Benedict
Waterbury Lumber & Coal Co., 107 Meadow
WILLIMANTIC—†Hillhouse & Taylor

### DELAWARE.

DOVER—Hartnett, J. A. & Bro.
GEORGETOWN—Thoroughgood, Wm. J.
WILMINGTON—*Wilmington Sash, Door & Blind Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Barker, Geo. M., 649 N. Y. av, N W
Crupper, Jos. L., 13th & Ohio av, N W
Duval-Planing Mill Co.
Dyer, William H., 13th c Ohio, N W
Libbey Bros.
Smith, T. W., 1st & Indiana av, N W
Washington Woodworking Co., 12th c B, N W

### FLORIDA.

APALACHICOLA—*Marshall, John & Co.
PALATKA—Selden Cypress Door Co. (Wholesale Mfrs.)
PENSACOLA—De Silva, H. G. & Co.
TAMPA—Detwiler, J. H.

### GEORGIA.

ADEL—Adel Mfg. Co.
AMERICUS—Americus Construction Co.
ATHENS—†Lyndon Mfg. Co.
Standard Lumber & Mfg. Co.
ATLANTA—Colcord Lumber Co.
*Phoenix Planing Mill, 27 N Butler
†Williams, S. A. Lumber Co.
AUGUSTA—Augusta Lumber Co.
Perkins Mfg. Co.
CARROLLTON—*New, D. F. & Bro.
CEDERTOWN—Hightown, T. M.
COLUMBUS—Dudley Sash, Door & Lumber Co.
Harvey, W. T. Lumber Co.
CORDELE—Cordele Sash, Door & Lumber Co.
DALTON—Cherokee Mfg. Co.
Farrar Lumber Co.
FITZGERALD—Small, J. D.
GRIFFIN—Gresham Mfg. Co.
LA GRANGE—Pike Bros. Lumber Co.
MACON—Central Mfg. Co.
Hays & Mansfield
Massee & Felton Lumber Co.
Willingham Sash & Door Co., 457 3d
MARIETTA—Henderson, C. E.
NEWMAN—Cole, R. D. Mfg. Co.
ROME—O'Neil Mfg. Co.
Patton Sash, Door & Building Co.
SAVANNAH—Bacon, A. S. & Sons
*Savannah Lumber Co.
*Southern Pine Co. (of Georgia)
WASHINGTON—Washington Mfg. Co.

### HAWAII.

HONOLULU—Lewers & Cooke (Ltd.)

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## IDAHO.

BOISE CITY—Capitol Sash & Door Co.
Gorezky, A.
Ridenbough, W. H.
Shaw Lumber Co.
COEUR D'ALENE—Blackwell Lumber Co.
Hill, H. H.

## ILLINOIS.

ALTON—*Ginter-Wardien Lumber Co.
Winter, H. L. Mfg. Co.
ANNA—Anna Lbr. & Mfg. Co.
AURORA—Jones & Brown Co.
BELLEVILLE—Ehinger, Emil
Storck, Geo. P. & Son
Teufel & Kloess Co.
BLOOMINGTON—*Minter Mfg. Co.
*White, S. R. Mfg. Co.
CHICAGO—*Anderson & Lind, 2127 Iowa
Atchinson Revolving Door Co., 98 Jackson
Avondale Sash & Door Co., 3515 Belmont av
Bartelmann, R. W. & Co., 920 Weed
Behrer & Benson, 1545 E 63d
Benson Mill Co., 4723 W Kinzie
†Biggs, A. Sash & Door Co., 4020 N Canal av
Bleck, Wm. F. & Co., 4947 St. Paul av
*Builders' Mfg. Co., 828 N Wells
Builders' Supply Co., 2226½ W Madison
†Bursik & Krupka Co., 1901 S Fairfield av
California Mfg. Co., 2243 S Troy
*Chicago Mill & Lumber Co. (Mfrs.), West Chicago av & N Sangamon
*Chicago Sash, Door & Blind Mfg. Co., 1249 W North av
*Chicago Veneered Door Co., Chamber of Commerce bldg
Coallier, A. E., 138 Washington
*Commercial Sash & Door Co., 4914 S Paulina
Cottage Grove Mfg. Co., 3912 Langley av
Crawford Sash & Door Co., 2222 W 24th
†Curtis, Cornelius W., 22d & Centre av
†Curtis, Edgar G., 442 Lasalle av
Dahlstrom Metallic Door Co., 542 Monadnock blk
*Dietsch, A. & Co., 2640 Sheffield av
*Dlouhy, Vincent Sash & Door Co., 2138
†Dodge, H. B. & Co., 108 Lasalle Laflin
Dreiske, Wm. D. & Co., 814 N Sawyer av
Ehrhart, Louis & Son, 2415 W Fullerton av
*Englewood Sash & Door Co., 5935 Lowe av
Farson, R. B., 194 Dearborn
Filer, Edw. T., 79 Dearborn
Filer, Edw. T. Co., 1738 Tripp av
Filip, Meydrech & Co., 1420 W 21st
Foley Mfg. Co., Western av & 26th
Foster-Munger Co. (Wholesale), W 20th & S Sangamon
†Freese, F. E., 3925 Armitage av
*Gardner Mill Co., 2415 Elston av
*Gauger, John A. & Co. (Wholesale Mfrs.), W 22d & Laflin
Gillespie, Jno. Lumber Co., Lumber & Sew-
Gisselbrecht & Sator, 2025 N Mozart ard
Gosch Bros. & Sons, 4636 Wentworth av
Halsted Street Mill Co., 6609 S Halsted
Hartmann-Sanders Co., 2155 Elston av
*Harty Bros. & Harty Co., 21st S W c Loomis
Hegener, Rudolph Co., 9232 Harbor av
Heitmann Lumber Co., 59th & Ashland av
Hess, Frank & Sons, 2339 N California av
Hines, Edw. Lumber Co., Lincoln & Blue
Howell, Thos. S., 59 Clark Island av
Hynes Bros., 3624 S State
Irving Park Sash & Door Co., 2654 N 40th
Johnson, Jno. L., 1900 Wellington av
Kartheiser, F. F. Co., 1028 W 22d
*Katz & Hamann Co., 5957 S Halsted
King, Patrick J., 1801 N Spaulding av
Kraetzer, Fischer & Co., 95th & S Chicago
*Leitzow & Co., 163 Randolph
Lincoln Sash & Door Co., 1835 W 15th
*Lockwood & Strickland Co., 49th & Halsted
Lumken Steel Window Co., 77 Jackson blvd
McEwen Building & Mfg. Co., 828 N Wells
Mears Slayton Lumber Co., 103 Chicago av
Melrose Mill Co., 2707 Clybourn av
*Morgan Sash & Door Co. (Sash, Open, Glazed, Doors, Veneered Doors, Blinds & Shutters), Blue Island av & Wood
Morris, Wm. & Sons, 3500 Princeton av
Mulder, O., 11044 Princeton av
*Nollau & Wolff Mfg. Co., 1705 Fullerton av
*North Ave. Mfg. Co., 1018 W North av
North Side Sash & Door Co., 2415 Elston av
Northwestern Sash & Door Co., 2344 Nelson
Paine Lumber Co., Chamber of Com. bldg
Panos Sash & Door Co., 4038 Ogden av
Peterson, C. E. Co., 4914 Wentworth av
Pilsen Sash & Door Co., 2926 W 26th
*Pulaski Sash & Door Co., 1274 W North av
Purmort, Henry C., Throop & W 22d
Radford Sash & Door Co., 845 W 22nd
Ravensword Mill, 4886 N Clark
Ringwald, F. A., 125 La Salle
*Rinn, Philip Co., Division & Crosby
Rittenhouse & Embree Co., 3500 Centre av
Ritter Folding Door Co., 115 Adams
*Roberts, E. L. & Co., W 22d c Union pl
Russell, Perley A., 70 La Salle
Schaller-Hoerr Co. (Storm Sash & Doors, etc.), 1013 S California av
Schaller, Leitzow Co., 406 N May
Scheldt Mfg. Co., 4433 N 40th av
Schlegl, Wm., 2156 Belmont
Schroth & Ahrens, 1534 S Halsted
Schultz, Alfred, F., 10220 Vinc. rd
*Skowronski, W. J., 8401 Baltimore av
South Side Interior Finish Co., 5837 Laflin
South Side Lumber Co. (Wholesale), 2259 S Ashland av
Spoor & Bahe, 1830 Austin av
*Standard Sash & Door Co., 5821 S Center av
Stewart, Alex., 316 Chamber of Commerce
Storgaard, Anders, 1732 N Western av
Struthers Mill Co., 1616 Grand av
Taber Sash Co., 98 Jackson blvd
True & True Co., Blue Island av S W c Lincoln
Ullrich, August G., 3864 Archer av
Union Interior Finish Co., Lasalle nr W
*Von Platen & Dick, 2216 W Kenzie
Wabash Screen Door Co., 115 Adams
Waterstraat, Chas. H., 2344 Nelson
Wheelock Lumber & Mfg. Co., 1750 N Cambpell av
Whitmore, O. S. & Co., 620 N Spaulding
Wilborn, Jas. C., 2125 Iowa
Wilborn, Jas. Jr., 1819 N Spaulding av av
Wilson, Jas. G. Mfg. Co., 108 Lasalle
Wright, Chas. O., 3242 N Calif av
DANVILLE—Eureka Lumber & Planing Co.
DECATUR—Decatur Lumber & Mfg. Co.
Lyon, Geo. S. & Sons Lumber & Mfg. Co.
DIXON—*Derr, A. S. & Co.
*Fletcher Mfg. Co.
EAST ST. LOUIS—*Gedney Construction Co.
*Wiegreffe, Theo. & Sons
ELGIN—*Rhinehimer Bros. Mfg. Co.
FREEPORT—*Bamberger, Elias
*Dirksen & Towslee
GALESBURG—*Carlson, David
*Colton, G. D. & Co.
JACKSONVILLE—Crawford Lumber Co.
JOLIET—*Alexander, Martin & Co.
Hacker, C. Co.
Joliet Sash & Door Co.
KANKAKEE—Paulissen, John G.
KEWANEE—Scott, John, (Est. of)
LA SALLE—Hunter-Stevens & Co.
LINCOLN—Hungerford, Wiliam
MATTOON—Andrews Bros.
MOLINE—Dimock, Gould & Co.
NAPERVILLE—Schwartz, M. & C.
NORMAL—Metcalf, Edw. J.
NORTH AURORA—Hartsburg & Hawksley Co.
OAK PARK—Bedard & Morency Mill Co.
Leasure, E. E.
OTTAWA—Sanders Bros. Mfg. Co.
Sinnott Bros.
PEKIN—Conklin Reuling Co.
PEORIA—Best, T. A. Mfg. Co.
Carr & Adams Co., 916 S Washington
Rogers, Jas. T. Co.
Rothan, Geo., J.
Todhunter & Alfs Co.
Wahlfeld Mfg. Co.
PERU—Maze, W. H. & Co.
QUINCY—Menke-Grimm Planing Mill Co.
Mulliner Box & Planing Co., 2d & B'way
Schutte, Henry Sons
ROCKFORD—Daniels, E. H.
Derwent, T. J. & Co.
Dobson Mfg. Co.
Rockford Builders' Supply Co.
Standard Woodworking Co.
ROCK ISLAND—Rock Island Sash & Door Works
Rock Island Wood Works
Volk, Jno. & Co.
SPRINGFIELD—McGrue, Harry O.
Power, Chas. A.
STREATOR—Schlachter, Philip, Jr.
WAUKEGAN—Dow, W. H. Mfg. Co.
WEST CHICAGO—West Chicago Sash & Door Mfg. Co.

## INDIANA.

ALBION—Shipley, A. L.
ANDERSON—Atherton, M. & Sons
BERNE—Berne Lumber Co.
Gilliom Lumber Co.
BLOOMINGTON—Fulwider, W. A.
Lanum, S. O.
BOONVILLE—White, C. P. Lumber Co.
BRAZIL—Hasted, J. N.
Reed & Sons
Wilder, C. E. & Co.
BROOKVILLE—Fieber & Holmes
COLUMBUS—Dunlap & Co.
Hege & Co.
COVINGTON—Williams, Geo. W.
CRAWFORDSVILLE—Smith & Duckworth
DECATUR—Kirsch, Peter
EVANSVILLE—Cottage Building Co.
Evansville Planing Mill Co.
Mechanics' Planing Mill Co.
Schnute-Holtmann Co.
FORT WAYNE—Diether Lumber Co.
Fort Wayne Lumber Co.
Gilmartin, Edw.
Rhinesmith & Simonson
FRANKFORT—Deming & Thompson Lumber
Kramer Bros. Co. Co.
GARRETT—Allman, N. R.
GOSHEN—Goshen Sash & Door Co.
GREENCASTLE—Winter-Jackson Sash & Door
Grubbs, Geo. W. Co.
HAMMOND—Erlebach, H. F.
HARLAN—Bickhart Bros.
INDIANAPOLIS—Adams Carr Co.
Anson-Hixon Sash & Door Co.
*Balke & Krauss Co.
Capitol Lumber Co.
Carter, Lee & Co.
*Dynes Lumber Ca.
Eaglesfield Lumber Co.
Foster Lumber Co.
Indianapolis Mfrs.' & Carpenters' Union, 201 S N. J.
†Maas-Neimeyer Lumber Co.
JASPER—Schaaf & Schnaus
KOKOMO—Armstrong, London Co.
*Moore & Danner
LADOGA—*Huntington & Son
LAFAYETTE—*Lafayette Lumber & Mfg. Co.
Taylor, Henry Lumber Co.
LA PORTE—*La Porte Sash & Door Co.
LOGANSPORT—Parker & Johnston
MADISON—*Madison Planing Mill & Lumber
MARION—*Campbell, Jas. Co.
MADISON—Madison Planing Mil & Lumber Co.
MICHIGAN CITY—Michigan City Sash & Door
NEW PALESTINE—*Madison, Jas. Co.
NORTH VERNON—*Miller Bros.
PRINCETON—Ford, A. S.
RICHMOND—Louck & Hill Co.
SEYMOUR—Seymour Planing Mill Co.
Traves-Carter Co.
SOUTH BEND—Eckler, Henry Mfg. Co.
Indiana Lumber & Mfg. Co.
McEslain & Jackson Co.
Miller & Donahue Lumber Co.
Paxton, J. C. Lumber Co.
St. Joseph Lumber & Mfg. Co.
TELL CITY—*Tell City Planing Mill Co.
TERRE HAUTE—Kintz, P. C. & Sons
Schohfer, Jno. G. & Son
UPLAND—*Deeren, T. J.
VALPARAISO—*Bell, E. A.
VINCENNES—McIlvane Lumber Co.
WABASH—†King, McNamee & Hipskind
WARSAW—Peterson Lumber Co.
WASHINGTON—Cosby, O. M.
*McKernan, Hugh

## IOWA.

BURLINGTON—Nairn, Gillies Co. (Wholesale
CALMAR—Calmar Mfg. Co. Mfrs.)
CEDAR FALLS—Harris & Cole Bros. (Whole-
Weisbard & Sucher sale Mfrs.)
CEDAR RAPIDS—Cedar Rapids Sash & Door Co.
Disbrow Sash & Door Co. (Wholesale
Williams & Hunting Co. Mfrs.)
CHARLES CITY—*Smith, George P. Co.
CLINTON—Curtis Bros. & Co. (Wholesale
COUNCIL BLUFFS—Wind, P. H. Mfrs.)
DAVENPORT—*Davenport Wood Works
*McClelland. T. W. Co.
*Sterling, P. J. & Co.
DES MOINES—Carr & Adams Co.
Loetscher-Jaeger Mfg. Co.
DUBUQUE—*Carr-Ryder & Adams Co. (Wholesale Mfrs.)
Farley & Loetscher Mfg. Co. (Wholesale
Metz Mfg. Co. Mfrs.)

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KEOKUK—Carter, S. C. & S. Co.
Ganuo Co.
Schmidt, Henry & Sons Co.
LYONS—Disbrow, M. A. & Co. (Wholesale Mfrs.)
MARSHALLTOWN—Kreutzer & Wasem
MOUNT PLEASANT—Glattey, Ditmars & Ayers
MUSCATINE—*Hurtig, Mfg. Co. (Wholesale Mfrs.)
*Roach & Musser Sash & Door Co. (Wholesale Mfrs.)
OTTUMWA—*Snook & Son
SIOUX CITY—*Curtic Sash & Door Co. (Wholesale Mfrs.)

## KANSAS.

ARKANSAS CITY—Arkansas City Planing Mill
ATCHISON—Carlisle-Pennel Lumber Co.
Stevenson & Hooper
FORT SCOTT—Fort Scott Planing Mill Co.
Island & Rollings
HUTCHINSON—Hutchinson Lumber & Planing Mill Co.
*Snyder Co.
KANSAS CITY—Ellis, J. W. Planing Mill Co., Scott c St, Paul
Wyandotte Planing Mill, 1814 N 5th
LEAVENWORTH—Goodjohn Sash & Door Co.
PITTSBURG—Drunagel & Watkins
*Pittsburg Planing Mill Co.
TOPEKA—Agard, W. G.
*Central Sash & Door Co.
Horn, E.
WICHITA—*United Sash & Door Co., 240 S Mosley
*Wichita Sash & Door Co.

## KENTUCKY.

BOWLING GREEN—*Kister, F. L., Jr.
Roemer Bros.
COVINGTON—*Covington Lumber Co., Madison av
*Hellmann Lumber & Mfg. Co., 165 W 12th
*Kentucky Planing Mill Co., 8th e of Garrard
FRANKFORT—*Choate, W. E.
*Pilkington, H. C.
GLASGOW—Jones, L. W. Mfg. Co.
Lewis, Jno. Planing Mill Co.
New Glasgow Planing Mill Co.
HOPKINSVILLE—*Forbes Mfg. Co.
LEXINGTON—Jackson, J. T.
*Spottswood, R. R. & Son
*Williamson & Son
LOUISVILLE—*Anderson Bros. Southern Planing Mill)
*Bell & Coggeshall Co.
*Central Planing Mill & Lumber Co.
Frey Paning Mill Co.
Hughes, E. L. Co.
*Kentucky Sash & Door Co.
*Struck, Alfred Co. (Wholesale Mfrs.)
MOUNT STERLING—Star Planing Mill Co.
NEWPORT—*Voss, Frank
*Weingartner's, Joseph Sons
RUSSELLVILLE—Roberts & Brown

## LOUISIANA.

ALEXANDRIA—Caddo Rapids Lumber Co.
Hayslip & Dear
LAKE CHARLES—Lara, Charles Planing Mill Co.
LUTCHER—*Lutcher & Moore Cypress Lumber Co. (Wholesale Mfrs.)
NEW IBERIA—*Iberia Cypress Co. (Ltd.)
*Trainor's, O. J. Son
NEW ORLEANS—*Algiers Mfg. Co., 240 Gen. Meyer av
*American Mfg. Co. (Ltd.), 2101 Louisiana
*Berwick Lumber Co.( Ltd.), 2333 Clio
*Builders' Supply Co. (Ltd.), 2019 Magazine
*Central Mfg. & Lumber Co., Perdido, c S Salcedo
*Chalin, Henry & Co. (Ltd.), 7451 Levee
*Crescent City Mfg. Co. (Ltd.), 1205 Montegue
*Franklin Sash Factory, 2125 Calliope
*Lambou & Noel Lumber & Mfg. Co. (Ltd.), c N Peters & Kentucky
*Lewis, H. F. Co. (Ltd.), 316 Baronne
*Lhote Lumber Mfg. Co., Toulouse c N Liberty
PATTERSON—Riggs Cypress Co. (Cypress) (Wholesale Mfrs.)
SHREVEPORT—*Allen Mfg. Co.
*Hardman, C. C. & Co.

## MAINE.

BATH—*Passmore, H. T. & Co.
BELFAST—*Durham, J. C.
*Mathews Bros.
BERWICK—*Nutter, J. C.
CAMDEN—*Camden Lumber Co.
CHERRYFIELD—*Wilson, E. K.
DEXTER—Eldridge Bros.
MACHIAS—*Foster & Bryant
MADISON—*Dane, J. H.
PITTSFIELD—*Bryant & Co.
PORTLAND—*Berlin Mills Co.
Farnham, H. F. & Co., R R Wharf
Leavitt, James, A. & Son, 366 Commercial
*Portland Door, Sash & Blind Co.
SKOWHEGAN—*Dane, J. H.
*Page, Ira W. Jr.
†Hanson, Webber & Dunham, 99 Main

## MARYLAND.

BALTIMORE—*Balto Sash & Door Co. (Wholesale Mfrs.), Howard & West
*Dorsey, Wm. C., Highland av & Phila. rd
*Duker, O. Co., Canton av & Albemarle
†Foster, James P. & Co., 115 S Frederick
Gilbert, J. L. & Bro., East Falls & Eastern avs
Hanneman, Aug., Monument c Milton av
Heise, Bruns Mill & Lumber Co., 600 S Caroline
†Keen, W. F. & Co., York rd & Carroll av
Lafayette Mill & Lumber Co., 2100 W Lafayette av
*Morgan Co., Union Trust bldg. Main offices & Factory at Oshkosh, Wis.
Mottu, Theo. & Co., 1022 Penna av
Scherer, Wm. C. & Co., 810 W Balto
Short, John H. & Sons, Uhler's alley
Thomas, Jos. & Son, 818 Leadenhall
Tinley Bros. Co., Bush & Nanticoke
Waggner, Lewis & Co., Wolfe & Thames
Waters, Geo. E. & Co., 992 Park av
CHESTERTOWN—*Culp, W. S. & A. M.
CUMBERLAND—†Cumberland Sash & Door Co.
ELKTON—†Keys & Miller Lumber Co.
EMMITSBURG—†Zimmerman, E. R. & Son
FREDERICK—*Wilcoxon & Brown
HAGERSTOWN—*Snyder, Geo. C. & Co.
HAVRE DE GRACE—†Dubois, Jno. E.
LAUREL—†Shaffer, C. F.
LUKE—*Sigler, Wm. T.
SALISBURY—*Adkins, E. S. & Co.
Salisbury Woodworking Co. (Inc.)
†Williams, L. E. & Co.
SNOW HILL—†Corddry, W. D. & Son

## MASSACHUSETTS.

ADAMS—†Arnold, H. J. & Sons
†Holden, M. J. Lumber Co.
ATHOL—*Raymond, Alfred J.
*Tyler, A. F.
AYER—†Phelps, Levi W.
BARRE PLAINS—*Rich, T. E. Co.
BOSTON—*Bailey, E. W. Co., 24 Kneeland
*Brockway-Smith Corp., 18 Washington
†Carlisle-Ayer Co., 28 Washington, N
†Carlisle, E. A. & Pope Co., 2 Sudbury
*Chapman, H. B., 166 Devonshire
*Cutter & Smith Co., 19 Warren, Rox.
*D'Arcy & Sons Co., 61 Washington, N
†Ellms, H. E. & Co., 22 Washington, N
*Farrell, C. H. & Co., 6 Northampton
†Hastings, A. W. & Co., 134 Friend
†Jackson & Newton Co., 29 Haymarket sq
*Johnson, Thos. J. & Co., 896 Washington
*Kinnear Mfg. Co., 85 Water
*Newton, F. C., 57 Bristol
†O'Connor, T. W. Co., 125 Haverhill
*Skinner & McManus, 41 Beverly
***STEARNS, A. T. LUMBER CO., Neponset. (See adv. index, end of book)**
*West End Sash Co., 61 Washington, N
BROCKTON—†Mitchell, L. & Co.
†Taunton Lumber Co.
CAMBRIDGE—*Hersey, Ira G., 113 B'way
CLINTON—*Fuller, Wm. A.
†Howe, N. L.
FALL RIVER—*Blossom, B. & Son
†Borden, Cook & Co., 650 Davol
†Neill, Joseph O., 130 Bedford
†Prosser, Wm. & Son, 185 Pleasant
†Skinner, A. H.
FITCHBURG—†Johnson, W. C., 109 Water
†Lawrence, Ivers P.
*Leger, Dosithe
*Priest, C. A. Lumber Co., 45 Rollstone
†Webber Lumber Co., 31 Newton pl
GARDNER—†Favor, M. M.
*Perry, E. E. & Co.
†Wright, L. A. & Co.
GLOUCESTER—†Nauss, L. B. & Sons
GREENFIELD—†Franklin County Lumber Co.
HAVERHILL—†Chase, D. D. Lumber Co.
†McGratty & Wheeler, 44 Main
HINGHAM—Whitney, E. E.
HOLYOKE—*Ely Lumber Co.
*Merrick Lumber Co., nr B. & M. M. R. R. freight depot
*Ranger, Casper, 10 Bond
HUDSON—†Robertson & Larkin
HYANNIS—Sears, J. K. & B. & Co.
HYDE PARK—*Hodgkinson, J. & Son
LAWRENCE—*Briggs & Allyn Mfg. Co., 20 Winter
†Dillon, John, 100 B'way
†Lawrence Lumber Co., 616 Essex
LOWELL—†Bennett, J. C. Co., 564 Middlesex
*Pratt, Amasa Co., 766 Dutton
LYNN—*Brockway-Smith Corp'n, 117 Pleasant
†Hutchinson Lumber Co., Broad c Wash'n
*Marshall Co., 149 Pleasant
MALDEN—†Kaulbach, W. S.
†Malden City Lumber Co.
MARBLEHEAD—*Bowden, T. J & Son.
MARLBORO—†Elliott Lumber Co., 128 Lincoln
MIDDLEBORO—†Sears, J. K. & B. Co.
NATICK—†Fiske & Co.
NEW BEDFORD—*Allen, A. W. Co., 193 N Water
*Blossom Bros., 172 N Water
*Greene & Wood
†Nicholson, John G.
†Sherman, James L.
NEWBURYPORT—†Cutter, F. E. & Son, 48 Merrimac
NORTH ADAMS—*Dibble (The), S. B. Lumber Co.
NORTHAMPTON—†Merrick Lumber Co., Merrick la
PITTSFIELD—†Berkshire Lumber Co.
*Blakeslee Lumber Co.
†Butler, James H. Lumber Co.
*Faulkner, Geo. W.
†Ferry, C. S. & Sons
PROVINCETOWN—†Dyer, B. H. & Co.
SOMERVILLE—†Davenport-Brown Co.
*Hume, Edgar B.
*Osteyee Bros.
PLYMOUTH—†Atwood, E. B.
†Robbins, L. T.
†Rice, W. P.
SOUTHBRIDGE—*Clemence, J. M. & L. D.
SOUTH HADLEY—*Howard, Gaylord & Co.
SOUTH HADLEY FALLS—†Street Lumber Co.
SPRINGFIELD—†Decker, E. S. Lumber Co.
*Hampden Lumber Co.
*Walker, T. M. & Co.
TAUNTON—†Sanders, C. V. & Co., 68 Weir
*Williams, A. G. & Co., 62 Weir
TURNERS FALLS—†Bartlett, Joseph F.
WAREHAM—†Grifford, Prince
WEBSTER—†Pattison, Louis E.
WESTFIELD—*Boyle, John E.
†Merrick Lumber Co., 280 Elm
WILLIAMSTOWN—†Waterman & Moore
WORCESTER—Adams & Powers, 171 Union
Gerlach, J. H. Co.
Griffin, W. E. Co.
Hatch & Barnes Co.
Stevens, F. O.

## MICHIGAN.

ALBION—†Wilder, S. A. & Son
ALPENA—*Gebhardt, Morrow & Co.
ANN ARBOR—Luick Bros. Co.
BATTLE CREEK—†North & Strong
*Rathbun & Kraft Lumber Co., Ltd.
BAY CITY—*Lamont, Matthew
Sanback & Co.
Sheldon, Kamm & Co.
Wolverine Lumber Co.
BENTON HARBOR—†McDonald James
BIG RAPIDS—*Jones & Green
BRIGHTON—†Hyne, F. T.
CADILLAC—Cadillac Lumber Co., Haynes Bros.
CALUMET—*Armstrong-Thielman Lumber Co.
CHARLEVOIX—*Charlevoix Lumber Co.
CHARLOTTE—†Webster, Cobb & Co.
CHEYBOYGAN—*Cheyboygan Mfg. Co.
COLDWATER—†Pollock, S. & Son
DETROIT—*Beyster, John, 875 W Fort
*De Man Bros., 416 Maybury Grand av
*Hertz & Hosbach Co., 4th and Holden avs
†Houston, Jas. D., 415 16th
*Huebner Mfg. Co., Mt. Elliott av & M. C. R. R.
*Hurd, W. F. & Co., 200 Campbell av
*Japes, Frank Co., 8th & Plum
*Kotcher, C. W., 639 Gratiot av
*Lowrie & Robinson, 2596 W Jefferson av
*Munroe, Wm. Co., 1000 Scotten av
*Nicholson Mfg. Co., 456 Brooklyn av
*Sibley, F. M. Lumber Co., Kercheval av & M. C. R. R. Belt Line
*Weber, J. F. & Co., 300 Gratiot av
ELSIE—†Wooley, J. B. & Sons
ESCANABA—*Williams, Nick
FLINT—†Randall Lumber & Coal Co.
FOSTER CITY—*Morgan Lumber & Cedar Co. (Sash, Open, Glazed, Doors, Veneered Doors, Blinds & Shutters)
GRAND RAPIDS—Dupree, John & Co.
Edge & Brethour
Fuller & Rice Lbr. & Mfg. Co. (Wholesale Mfrs.)
Jeltes, Stuck & Co.

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Letellier, F. & Co.
Stiles Bros., Marquette Lumber Co.
HANCOCK—†Stringer, Jas. S.
HARBOR BEACH—*Wellock & Robinson
HOLLAND—*Kleyn Lumber Co.
HOUGHTON—*Pryor, James & Son
IRON MOUNTAIN—†City Lumber Yard
†Laing, H. H. & Co.
IRONWOOD—†Williams, E. B.
JACKSON—†Lathrap, C. C., 258 Michigan av
KALAMAZOO—*Dewing & Sons, 42 N Jackson
Kalamazoo Woodworking Co.
*North & Coon Lumber Co.
LANSING—*Rikerd Lumber Co.
LAPEER—*King, Robert Lumber Co.
*Tuttle & Burritt
LAURIUM—*Bray, N. S.
LUDINGTON—†Cartier-Magmer Co.
*Widmark, H. P. & Son
MANISTIQUE—*Weston Lumber Co.
MARCELLUS—*Hoover, H. J.
MARINE CITY—†Zimmerman Bros.
MARQUETTE—*Read, F. W. & Co.
MENOMONEE—†Gibout, L. E.
*Kartheiser, Frank
MILFORD—*Byrne, P.
MONROE—†Beck, C. F. & Son Co.
MUSKEGON—*Langeland Mfg. Co.
NADEAU—*Jean, Augustine
OWOSSO—†Sturtevant & Clood
PAW PAW—*Free & Morrison
PONTIAC—Pontiac Planing Mill Co.
Slater Construction Co.
PORT HURON—†Boyce Hardware Co.
*Home Mfg. Co.
†Sperry, J. B.
†Sturmer, Richard T.
†Taylor, O. F.
QUINCY—*Salisbury, J. N.
SAGINAW—Booth & Boyd Lumber Co.
Cooper Co.
Hardin, D. Co.
Jackson, Thos & Co.
Mershon, Schulette, Parker Co. (Wholesale Mfrs.)
Polson, Wm. & Co.
Valley Lumber & Mfg. Co.
White, Albert C.
ST. CLAIR—*Mills, N. & B.
ST. JOSEPH—†Wallace, Jno. & Sons
SAULT SAINTE MARIE—*Lock City Mfg. Co.
SEBEWAING—*Sebewaing Lumber & Mfg.
SHELBY—†McKinnon, Jessie
†Rankin, A. J.
†Spellman, S. & Co.
SPRINGPORT—†Hoag, Houston
STANTON—†Pierson, John W. & Co.
TECUMSEH—*Lenawee Lumber Co.
TRAVERSE CITY—*Greilick, J. E. Co.
†South Side Lumber Co.
WALDRON—*Abbaduska & Son
†Gish, Charles M.
WAYNE—†Wallace, J. B.
YPSILANTI—†Fuller, George & Son
†Webster Bros. & Sons

## MINNESOTA.

ADRIAN—†Shull, J. & W. C.
BLOOMING PRAIRIE — †Solberg, A. Lumber Co.
CLOQUET—*Cloquet Lumber Co.
†Fish, L. A. & Co.
†Loisel, Jos.
*Northern Lumber Co.
DULUTH—*Duluth Lumber Co.
*Ouellette & Baxter Co.
Scott-Graff Lumber Co. (Wholesale Mfrs.)
*Wallinder, E. G.
*Woodruff Lumber Co.
FERGUS FALLS—*Fergus Mfg. Co.
FRANKLIN—†Hauser Lumber Co.
MANKATO—*Mankato Interior Mfg. & Lbr.
MELROSE—*Richmond, E. C. Co.
MINNEAPOLIS—*Anderson, Fred, 2810 Bryant av
*Bardwell-Robinson Co., 24th av cor 2nd
*Bintner & Lawson, 58 S 12th
*Carlson, Aaron, 15th av nr Central av
*City Mfg. Co., Lumber Exch.
*Curtis & Yale Co., Security Bank bldg
†Eddy Sash & Door Co., 125 2d, N E
*Fulton & Libbey Co., 1428 N 2d
*Joannin-Hansen Co., 2308 N 2d
*Johnson, H. S. & Co., 18th av c Marshall
*Johnson, Smith & Co., 1311 Yale av
†Johnson, W. W. Lumber Co., Lumber Exch.
†McCulloch-Kuhn-Atkinson Co., Lumber Exch.
*Minneapolis Sash & Door Co., 1018 Central av
*Nelson-Tuthill Lumber Co., Central av, cor B'way
†North Side Lumber, Sash & Door Co., 214 19th av, N
*Simonson Bros. Mfg. Co., 1713 S 7th
*Smith & Wyman, 2d av & 8th
†Thompson-McDonald Lumber Co., Lumber Exch.
*Union Sash & Door Co., 218 S 8th
*Waterman-Hunter Co., 515 1st av, N E
*Wilcox, J. F., 1030 Marshall
MORRIS—†Jones, Edw. J.
RED WING—*Betcher, Chas. Lumber Co.
ROCHESTER—†Dodge, W. H.
ST. CLOUD—*Raymond & Dunnewald Mfg. Co.
*Wright & Smart
ST. PAUL—*Abbott Mfg. Co., 298 E 6th
*Brooks Bros., 1923 W University av
†Hardwood Door Co., 7 Corners
†Lamb Lumber Co., 160 W 5th
*Osgood, Blodgett Mfg. Co., Duluth av.
*St. Croix Mfg. Co., Ryan bldg
†St. Croix River Lumber Co., 185 E Fairfield av
*St. Croix Sash & Door Co., 185 E Fairfield av
*St. Paul Sash, Door & Lumber Co., Arundel & Minnehaha
*Villaume Box & Lumber Co., 123 W
SAUK CENTER—†Ingram Lumber Co. Isabel
STILLWATER—*St. Croix Lumber Co.
*St. Croix Mfg. Co.
*Stillwater Mfg. Co.
THIEF RIVER FALLS—*Thief River Falls Lumber Co.
WARREN—†Robertson Lumber Co.
†St. Hilare Lumber Co.
WINONA—*Empire Lumber Co.
*Laird-Norton Co.
*Schroth & Ahrens Co. (Wholesale Mfrs.)

## MISSISSIPPI.

BILOXI—*Rosell, T. J. Mfg. Co.
CORINTH—†Pocahontas Lumber Co.
GREENVILLE—†Harry, J. J.
†Neal, Dolph
GULF PORT—Gulf Port Sash, Door & Blind Mfg. Co.
JACKSON—*Cambre Bros.
*Enoch's Lumber & Mfg. Co.
†Jackson Lumber Co.
MERIDIAN—*Bostick Lumber & Mfg. Co.
NATCHEZ—*Hill Lbr. & Mfg. Co.
VICKSBURG—*Curphey & Mundy
†Mississippi Lumber Co.
*Spengler, A. & S.

## MISSOURI.

BOWLING GREEN—†La Crosse Lumber Co.
BUTLER—Logan, Moore Lumber Co.
Wyatt, H. C. & Son
CANTON—Canton Lumber Co.
CAPE GIRARDEAU—Jones & Bohle
*Rees Bros. Mfg. Co.
CARTHAGE—†Harrison, J. F.
†Home Lumber Co.
†Thomas, B. F.
EXCELSIOR SPRINGS—†Chicago Lumber Co.
†Rice, S. R.
FARMINGTON—*Doughty, D. J.
†Lang & Bro.
†Tetley-Klein Lumber Co.
FREDERICKTOWN — †Fredericktown Lumber Co.
GLASGOW—†Hagerdorn, D.
*Rall Bros.
HANNIBAL—Conlon, John R.
*Hannibal Door & Sash Co.
*Meyer, J. F. & Co.
JACKSON—†Caldwell, H. L.
JEFFERSON CITY—*Wallau, Henry J.
JOPLIN—*Joplin Sash & Door Works
†Miller, L. F.
†Stewart Bros.
KANSAS CITY—*American Sash & Door Co. (Wholesale Mfrs.)
*Armourdale Lumber Co., Kansas av c Brent
†Badger Lumber Co., 303 Postal Tel. bldg
†Belt Line Lumber Co., Vine c 20th
†Bruce Lumber Co., 20th & Grand av
†Byrne, J. M. Lumber Co., 20th & Wyandotte
Clark & Bates Lumber Co., Commercial bldg
†Creel, T. C. Lumber Co., 5th c Central
†Deatherage Lumber Co., 1600 Indiana av
†Dierks Lumber & Coal Co., R. A. Long bldg
†Dierks & Sons Lumber Co., 4620 Frost av
†Foster Lumber Co., R. A. Long bldg
†Lee & Lyman, 24 E 18th
*Louisiana Central Lumber Co., 1111 R. A. Long bldg
*Lovejoy, G. W., S. W. cor Campbell
†Merrill, J. W., S W Boul & Summit
*Roach & Kienzie Sash & Door Co., 16th & Bellefontaine
Schmidt & Wible Mercantile Co., 1219
†Shutte, S. Z., 25th c Grand McGee
*Western Sash & Door Co., Grand av & 23d
LEBANON—†Lingsweller, J. G.
LOCKWOOD—†Eaton, W. R. & Co.
LOUISIANA—La Crosse Lumber Co.
MARCELINE—*Pancost, L. E.
MARYVILLE—†McNeal-Parcher Lumber Co.
MOBERLY—†Mounce, D. H. & Co.
NEOSHO—*Neosho Planing Mill Co.
NEVADA—†Robinson, J. B. & Son
PALMYRA—†Noble, G. A.
RICHLAND—†Lingsweller, Edw.
ST. JOSEPH—*American Sash & Door Co.
†Badger Lumber Co., 6th & Penn
†Biles, N. D. L. & Co., 1422 S 6th
†Dougherty & Moss Lumber Co., 10th & Mitchell
*Huttig-Moss Mfg. Co., 4th cor Mitchell av
†Nold, Chas. H. Lumber Co., 1212 N 4th
†St. Joseph Lumber Co., 1401 Frederick av
ST. LOUIS—*Banner Sash & Door Co., 8025 S B'way
*Carondelet Planing Mill Co., B'way & Elwood
*Crescent Planing Mill Co., 3227 N 9th
*Fathman & Miller Planing Mill Co., Tiffany & Vista
*Frye, Wm. G. Mfg. Co., Tiffany & Vista
*Gaus, Henry & Sons Mfg. Co., Main & Clinton
*Gravois Planing Mill Co. Minnesota & Juniata
*Hafner Mfg. Co., Main & Dock
*Hultig Sash & Door Co., 1206 Old Manchester rd
*Imse-Schilling Sash & Door Co., 21st & Papin
*Kuenzel, A. Mfg. Co., 2716 S 3d
Lohse Patent Door Co., Kingshighway & Mo. Pac. Ry.
*Maplewood Planing Mill & Stair Co., 2731 Sutton av
*Mechanics' Planing Mill Co., 3742 N B'way
*Olcott, Chas. A. Planing Mill Co., 3300 N B'way
Phoenix Planing Mill Co., 12th & Spruce
*Reed & Steeger Sash & Door Co., 4211 Chippewa
Riddle-Rehbein Mfg. Co., 13th & O'Fallen
*St. Louis Lumber Co., 2509 S B'way
*St. Louis Mill Works Supply Co., 2714 La Salle
*St. Louis Sash & Door Works, B'way & Destsehan
*Schaerff-Pfau & Ganakl Planing Mill Co., 3320 S B'way
*Theiling-Lothmann Mfg. Co., 3810 N 9th
Thomsen Planing Mill Co., 1700 Old Manchester rd
*Thuener, Chas. Planing Mill Co., 3800 Lucky
SPRINGFIELD—†Campbell Lumber Co.
*Davis Planing Mill Co.
†Garrett, W. L.
†Hatten Lumber & Supply Co.
†Hummel Lumber Co.
*Springfield Planing Mill & Lumber Co.

## MONTANA.

ANACONDA—*Anaconda Copper Mining Co.
BILLINGS—†Billings Lumber Co.
BUTTE—Big Blackfoot Milling Co.
Carroll, J. T. Lbr. Co.
Western Lumber Co.
GREAT FALLS—Holter Lbr. Co.
KALISPELL—Kalispell Lumber Co.
*McMannamy, Wm. P.
MISSOULA—*Missoula Lumber Co.
RED LODGE—†Bowlen, Chas. C.

## NEBRASKA.

BEATRICE—*Beatrice Planing Mill Co.
*Thistlewait Bros.
KEARNEY—†Gilchrist, F. H. Lumber Co.
†Seeley, C. S.
LINCOLN—*Curtis, Towle & Paine Co. (Wholesale Mfrs.)
Searle & Chapin Lumber Co., 737 N
Trester Lumber, Coal & Ice Co., 103 S 11th
NEBRASKA CITY—*Elwin, Ellis, 205 S 4th
OMAHA—Bates, C. S., 217 N 26th
Bloom, Alfred Co., 1502 California
Chicago Lumber Co. (of Omaha)
Disbrow, M. A. & Co., 1201 Nicholas
Hampton Lumber Co., 1242 S 16th
Omaha Wood Working Co., 1029 S 18th
Rosenberry, A., 1501 Marcy
SOUTH OMAHA—†Bradford, Louis Lumber Co.
†Howland, E. H. Lumber & Coal Co.
†Watkins, J. B. & Co.

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## NEVADA.

GOLDFIELD—*Blair, C. C.
RENO—*Reno Mill & Lumber Co.
VERDI—*Verdi Lumber Co.

## NEW HAMPSHIRE.

BRISTOL—†Wells, B. I. & A.
CENTER OSSIPEE—*Smart, C. H.
CONCORD—*Carpenter, Wellington, 7 Bridge
†Drake, Clifton W.
EPSON—*Marden, Freeman
FARMINGTON—†Mooney, Frank E.
GOFFSTOWN—Kendall, Hadley & Co.
KEENE—*Nims, Whitney & Co.
†Thayer & Collins
LAKEPORT—†Boulia, Gorrell Co.
LANCASTER—†Smith, Frank & Co.
*Thompson Mfg. Co.
LEBANON—*Spencer Bros.
LITTLETON—†Littleton Lumber Co.
MANCHESTER—*Derryfield Co.
†Head & Dowst Co., 97 Granite
*Hodge, J.
†Hubbard, Wm. F. (Est. of)
MARLBORO DEPOT—*Sherman Bros.
MILFORD—†Peirce, Geo. H. & Co.
†Smith, C. H. V.
NASHUA—*Gregg & Son
†Otis, B. B. Co.
*Roby & Swart Mfg. Co.
PENACOOK—*Rolfe, C. M. & A. W.
PLYMOUTH—†Smith, Jared A.
ROCHESTER—†Rochester Lumber Co.

## NEW JERSEY.

ASBURY PARK—*Asbury Park Mill Co.
*Buchanon & Smock Lumber Co.
ATLANTIC CITY—*Somers Lumber Co.
BAYONNE—*Doyne Lumber & Milling Co.
BELLEVILLE—Carragher, F. J.
BOGOTA—*Wolfe, J. N.
BOONTON—*Todd, S. C.
BRIDGETON—*Loper, A. F.
BURLINGTON—*Severns, J. T. Sons & Co.
CAMDEN—*Coles, C. B. & Sons Co., Front & Chestnut
*Cooper, Wm. J. & Co., 221 Kaighn av
†Fredericks, Wm. H., 122 Arch
CLOSTER—King, Edw. A.
EAST ORANGE—*Curtis Bros.
ELIZABETH—*Buttler, H. V. & Co.
*Elizabeth Sash, Door & Supply Co.
FREEHOLD — †Reid, Leonard G., Spring nr
FRENCHTOWN—†White, Charles B'way
GRANTWOOD—Grantwood Moulding & Trim Co.
HACKENSACK—†Young, Frank
HAMMONTON—†Bernshouse, Wm. H.
HOBOKEN—*Gahagan's, J. Sons, 217 Adams
†Kortlang, H., 556 Ferry
HOMESTEAD—Hollingshead-Kernan Co.
JERSEY CITY—*Barnes Mfg. Co.
*Heller, U. & Sons
*Hoe, Richard
*International Wood Working Co.
*Noble & Hoe
*Prospect Sash & Door Co.
*Schulz, T. Sash & Door Co.
*Summit Door Co.
*Tuzik & Zamoyske
*Wickens, S. W.
Woodhouse & Co.
KEARNY—(See Arlington)
MADISON—†Smith, J. M. Co.
MANASQUAN—†Taylor, W. P.
MATAWAN—†Bailey, Wm. D.
MILFORD—Thomas, W. & W. E.
MILLVILLE—*Kimball, Prince & Co.
MONTCLAIR—*Lyman, Jno. T.
MOORESTOWN—†Collins, John S. & Son
MORRISTOWN—†Ennis, C. W. & Co.
†Mills, Geo. A. Wood Working Co.
MOUNT HOLLY—†Ewan, Josiah W.
NEWARK—*American Saw & Planing Mill Co., 307 18th
*Barkhorn, Wm. H., 22 Sayre
*Bischoff, Wm., 501 Bergen
*Central Woodworking Co., 113 Central av
*Clark & Co., 515 Hunterdon
*Craig, Jos. R. Co., 129 N. J. R. R. av
*Empire Sash & Door Co., Woolsey
*Filliger, L., 52 Kent
*Goldingay Bros. Co., 88 E Kinney
*Hatt, J. Wm., 123 Plane
*Maull, G. F., 780 S 18th
*New Jersey Woodworking Co., 129 N. J. R. R. av
*Newark Door Co., 221 Sussex av
*Paxton, C., 128 Wakeman av
*Schill, Frederick & Co., 102 Charlton
Schrafft, A. Moulding Co.
*Sirota & Kronenberg Sash & Door Co., 200 Academy
*West Newark Planing Mill Co., 711 S 14th
NEW BRUNSWICK—*Butler, H. V. & Co.
NEW DURHAM—Austin, Frank B.
North Hudson Mfg. Co.
OCEAN CITY—Headley & Adams
ORANGE—*Barber, Chas. L., 112 Railroad av
*Romine, Jacob K. & Son, 21 Reock
PASSAIC—*Crane, Floyd H.
*Slaff, S.
PATERSON—*Commercial Lumber & Mill
*Florence Bros. Mfg. Co. Work Co.
*Post, Wm. H.
PERTH AMBOY—†Farrington Co.
PHILLIPSBURG—Bachman, R. K. & Bro.
Laubach, C. J. Co.
PITMAN—*Lodge, Joseph
PLAINFIELD—†Burdick, Jesse G.
*McCullough, Richard H.
RED BANK—*Waters & Osborn
RIDGEWOOD—*Hutton, Isaac
*Hayward, Milton
SALEM—Bell, Wm. W. W. & Co.
TRENTON—*Conner Millwork Co.
*Leuckel, A. K. & Co.
VINELAND—*Kimball & Prince Lumber Co.
†Pixley, Albert B.
WASHINGTON—*Alleger's, E. W. Son
†Gulick, Walter D.
WEEHAWKEN—*Cade & Son, 420 Hudson
*Hudson oodworking Co., 1938 Park av
WESTFIELD—†Tuttle Bros.
WEST NEW YORK—*Gundling, B. V.
WOODBURY—Woodbury Mill & Lumber Co.

## NEW MEXICO.

ALBUQUERQUE—†Baldridge, J. C.
LAS VEGAS—*Sundt, M. M.
SANTA FE—†Dudrow, C. W.
*Hesch, Philip, Sr.

## NEW YORK.

ADAMS CENTER—*Green, O. D., Jr.
ADDISON—*Park, Winton & True
ALBANY—Blakeslee Lumber Co.
Bradstreet, Wm. H.
Burton, Wm. H. Co.
Ramsdell & Co.
Stephens, Thomas & Sons, 277 Lark
ALBION—*Mallory, C. M.
ALLEGANY—*Hall, W. M.
AMSTERDAM—*Brookside Lumber Co.
ANTWERP—†Bethel, George D.
ARCADE—Arcade Planing Mill Co.
AUBURN—*Carr, Frank J.
*Koon, E. B. & H. J.
BALLSTON—*Reynolds, M. T.
BARKER—†Lum, L. C.
BATAVIA—*Batavia & N. Y. Woodworking Co
BATH—*Beekman Sash, Door & Woodworking
BINGHAMTON—*Bartlett & Co. Co.
†Ensign Lumber Co., Jarvis nr E. R. R.
†Middlebrook, C. D. & Son, 226 State
*Roberson, Alonzo & Son
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Boller, Chas. & Sons Co.
Builders' Planing Mill Co.
Dohn, Fischer & Beyer
Elias, G. & Bro.
Feist, John & Sons Co.
Flieri, Christian
Gilmour, David Door Co.
Hager, E. M. & Sons Co.
Henrich's, Wm. Sons
Hutzler, Jno.
Iroquois Door Co.
Jaeckle, Jacob
Metz, Jos. & Sons
Montgomery Bros. & Co. (Inc.)
Niederpruem Co.
Zeis, M. & Sons
Zimmermann, Geo. M.
CANAJOHARIE—†Smith, Hugh M.
CANANDAIGUA—†Thompson, George T.
CANTON—†Rushton, J. W.
CARTHAGE—†Vrooman, Wallace B.
CATSKILL—†Lampman, Wm. E.
CAZENOVIA—*Thayer, T. W. Co.
CHAMPLAIN—†Earl, Jno.
CHERRY VALLEY—†Wales, Robert & Son
CLINTON—†Coleman, E. G.
COBLESKILL—†Courtier, Stanton
COHOES—*Breault, Medard Co.
*Griffin, A. J. & Son
COLD BROOK—†Rhodes & Connor
COLLIERSVILLE—*Fox, F. M.
COPENHAGEN—†Cary, James
CORNING—*Corning Building Co.
CORNWALL LANDING—†Taft-Howell Co.
CORTLAND—†Benton, H. F. Lumber Co.
CROGHAN—†Virkler, Emanuel
CROWN POINT—†Bly, N.
*Pond, J. E. & Son
DANSVILLE—*Fisk Bros.
DEPOSIT—†Kerr, F. M.
DEXTER—†Bininger, Hy.
†Leonard & Gilmore Co.
DUNKIRK—†Atlas Builders' Supply Co.
*O'Donnell, M. J. & Co.
*Madigan & Co.
EARLVILLE—†Todd & Gurney
EAST AURORA—*Peek, S. H.
EDMESTON—†Ackerman, E. L.
ELLENVILLE—†Bailey & Deyo
ELMIRA—*Doane & Jones Lumber Co.
*Spaulding, H. C. Co.
FALCONER—*Chautauqua Planing Mill Co.
FREDONIA—*Edmonds, R.
FRIENDSHIP—*Empire Sash & Door Co.
FULTONVILLE—†Mohawk Valley Lumber Co.
GENEVA—†Moore, Daniel E.
†Rogers, R. J. Lumber Co.
GLENS FALLS—*Kendrick & Brown
GLOVERSVILLE—†Burr Bros.
†Holden, Charles J.
†Holmes, R. E.
GOUVERNEUR—†Carpenter, J. H.
*Van Duzee, S. B. Mfg. Co.
GOWANDA—*Forbush Planing Mill Co.
GRANVILLE—†Potter, Fred.
GREENE—†Lyon Iron Works
GREEN ISLAND—*Crampton & Belden
GREENPORT—†Corwin, C. L.
HAMBURG—Hamburg Planing Mill Co.
HEMPSTEAD—†Plyer, Wm. & Co.
HICKSVILLE—*Voight, C. H.
HOLLAND—*Holland Planing Mill Co.
HOLLEY—†Cole, N. L.
HOOSICK FALLS—*†Easton, Rising & Worden
HORNELL—*McConnell Mfg. Co.
HORSEHEADS—*Tuttle, W. E.
HUDSON—Traver, W. H. & Son
IRVINGTON—*Sutton, Wm. O.
ITHACA—†Dixon & Robinson
†Rumsey, C. J. & Co.
†Treman, King & Co.
JAMAICA—(See New York City, Borough of Queens)
JAMESTOWN—*Watson Mfg. Co.
*Wilson, John T.
JOHNSTOWN—†Stephenson, L.
*Youngglove, James I.
KEESVILLE—†Prescott, V. & Son
KINGSTON—*Coutant, A. K., North c Strand
†Mauterstock, Albert, 109 B'way
*Palen's, Henry W. Sons
*Traphagen & Hull Mfg. Co.
†Turck, W. J. Co., 75 E Strand
†Weeks, Theo., 70 Furnace
LANCASTER—*Knauber, Mrs. M. A.
†Weill, J. C.
LANSINGBURG—*Madden Lumber Co.
LAWRENCE—*Wood, John A. & Son
LEROY—*Lapp Bros.
*Rogers, F. C.
LESTERSHIRE—*Lestershire Lumber & Box
LIBERTY—†Edmonds, Wm. F. Co.
LITTLE FALLS—†Little, Andrew
LIVINGSTON MANOR—†Woolsey, P. H. Co.
LOCKPORT—†Clifford, Jas. & Bro.
†Heary & McGrath
*McDonough, Mrs. John
†Murphy Bros.
*Whalen, Jos.
LONG ISLAND CITY—(See New York City, Borough of Queens)
LYONS—†Sloan Bros.
MALONE—†Kelly, Jno.
MAMARONECK—†Brewer, R. G.
MATTEWAN—†Forrestal, Jas.
MECHANICSVILLE — *Orcutt & Porter Co. (Doors Only)
MIDDLE GRANVILLE—Allen, G. Myron
MIDDLEPORT—*Rowley & Eddy
MIDDLETOWN—†Gordon & Gould
MILLERTON—†Beers & Trafford
MONTICELLO—†Allen, Wm. C.
†Smith, Isaac O.
MOOERS—*Knapp, C. L. & Son
MOUNT KISCO—†Turner, Jerry B.
†Young, Halstead & Co.
MOUNT VERNON—*Burton & Fenton
†Cronenberg, L. & Sons
†Weiss, Charles H.
†Wilson & Adams Co.
NEWARK—†Keener, S. N.
*Kemper-Buck Mfg. Co.
NEWBURGH—†Newburgh Lumber Co., 215 B'way
Newburgh Planing Mill Co., c Johnes & S William
NEW ROCHELLE—Mahlstedt, J. A. Lumber & Coal Co.
New Rochelle Coal & Lumber Co.

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## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Adler, Harry, 64th
Bayside Sash & Door Co., 806 3d
Blake, Clarence M., 369 Fulton
Blumberg, Max, 14 Summer av
†Bossert, Louis & Son, 1335 Grand
†Brooklyn Fireproof Sash & Door Co., 101 Richardson
Brooklyn Lumber Co. (Wholesale Dealers), 458 Hamilton av
Browner, Sam'l, 96 Junius
Clark, Jno., 26 Radde pl
Cohen & Grau, 283 Van Sinderen av
*Cropsey & Mitchell, Cropsey av & Bay 35th
†Curtis Bros. Lumber Co., Liberty av c Vansinderen av
East N. Y. Trim & Lumber Co., 51 Newport av
Empire City-Gerard Co., 259 Greenpoint av
Entenman, A., 669 73d
Frank-Meisel Co., 486 Leonard
†Gardner, David P. & Son, 49 Fleet pl
†Gass, John H. Co., 601 Sackett
†Gerard, G. H. Son & Co., 265 Greenpoint
Goldman & Parkin, 561 Watkins av
Greenpoint Sash & Door Co., 681 Morgan av
†Hardy, Voorhees & Co., Met. av & Newtown Creek
†Hawkins, Geo. A. & Co., 44 Court
†Hitchings, Ben G., E 34th nr Av H
Interborough Sash & Door Co., 340 Junius
†Keshin, Blitstein & Co., 250 Moore
Kurlandzik & Alpert, 410 Snediker av
†Levin, Kronenberg & Co., 287 Vesta av
Lindsley, Albert B., 219 3d ave
†Lockard & Blake, 367 Fulton
Lofgren Bros., 57th c Church av
*Loomis, John S. Co., Baltic & Nevins
McKenna & Wood, 1708 Dean
†Macaulay, C. R., 255 18th
†Mayer, Michael, 181 Moore
*Meisel, Danowitz & Co., 55 Eckford
*Morganthaler's, Jacob Sons, 633 Sackett
Mullin, Wagner & Co., 2828 W 16th
*National Fireproof Sash & Door Co., 250 Moore
†Newton, Albro J. Co., 528 Union
†Nolte, Wm. H. (Est. of), 55 Bogart
†Orr, J. C. & Co., West & Java
Pearson, Carl H., 193 Wallabout
Rothenbach, Chas., 199 Starr
Standard Fireproof Sash & Door Co., 182 Diamond
†Stanley & Unckles, 285 Butler
Union Milling Co., 8th c 2nd
Van Gasbeck, Rich'd M., 126 Carlton av
Volk, Jno. G., 539 18th
Weinstein, Sam'l, 100 Richardson
Weisfeld Bros., 7 McKibbin

### Boroughs of Manhattan & Bronx.

NEW YORK—*Anderson, Edw., 12 W 143d
†Appel, Chas., 210 Lafayette
Batavia & N. Y. Woodworking Co., 103 E 125th
†Bayer-Catton Co., 194 Lewis
Beekman Sash, Door & Woodworking Co., 259 B'way
†Bird, W. D., 42 W 67th
†Blanchard, J. F. Co., Fuller bldg
Bregman, Rosenberg & Rotner Co., 808 5th
†Bronx Sash & Door Co., 1604 Adams
†Carl, John H., 510 1st av
*Champion Fire Proof Door Co., 277 Rider av
*Chautauqua Planing Mill Co., 5 Beekman
†Conklin, Alfred R., 249 E 139th
De Long, A. W. & Co., 88 Alex av
Drydock Sash & Door Co., 822 5th
Dyer Revolving Door Co., 11 B'way
East River Sash, Door & Trim Co. (Interior Wood Work, Window Frames, etc.), 417 E 8th
*Empire City-Gerard Co., 40 E. 22d
Empire Door & Trim Co., 7 E 42d
†Finn, Chas. F., 227 Canal
*Forbes, Jas. C., Leland av & Guerlain pl
Fries, L. P. Co., 1133 B'way
Globe Fireproof Door & Sash Co., 2650 Park av
Hagemeyer, Geo., 387 E Fordham rd
*Hampden Lumber Co. (of Springfield, Mass.), 1 Madison av
*Harlem River Lumber & Wood Working Co., E 138th & Gerard av
Hasbrouck, Chas. A., 819 3rd av
*Haynes & Coryell, S Boulevard & 179th
†Hogan & Digenno, 49 E 135th
Hoeves Mfg. Co., Pierce av, Morris Pk
†Howell & Lawrence, 404 E 93d
Hudson Woodworking Co., S Blvd nr Webster av
Johnson, Jas. W., 253 B'way
Johnson, Theron S., 103 E 125th
Klein, Wm., 4242 Park av
†Kohart, Frank C., 15 Park row
†Leslie, John, 138 W 15th
McConnell Mfg. Co., 160 5th av
Maculay, C. R., 18th & 5th av
Marcus, J. Woodworking Co., 3521 Bronx blvd
†Marx & Jacobsen, Tompkins & Delancey
Miner, Jas. C., 1123 B'way
Montgomery Lumber Co., 48 W 27th
†More, M. E. & Co., 489 5th av
*Morgan Co. (Sash, Open, Glazed, Doors, Veneered Doors, Blinds & Shutters), 116 Nassau
*Mott Haven Trim Mill, 249 E 139th
*Murray & Hill Co., So Boul c St Mary's
†Nesbit, D. M. Co., 116 Nassau
*N. Y. Carved Moulding Co., 3d av & 139th
Niagara Wood Working Co., 159 E 88th
*O'Neill, Michael F., Walton & Cheever pl
†Palens', H. W. Sons, 1 Madison av
Pinches, Jno. Co., 1 Madison ave
Platt-Baker Co., 10 E. 23d
Pomeroy, S. H. Co., 427 E 13th
Potter, Jos. R., 224 W 28th
Potter, Jos. R. & Co., 270 W 126th
Purrington, Geo. F., 103 E. 125th
*Raabe, Henry & Sons, 321 W 64th
Rapp, Jno. W. Co., 1 Madison av
†Read, Charles, 406 W 30th
†Reeb & Dinkins, 18 B'way
†Reynolds, Charles E., 1 Madison av
†Richardson & Dutt, 789 3d av & 122 Elm
Ridgway Supply Co., 507 5th av
Robertson, A. & Son, 19 Whitehall
Rugg, C. H. Co., 103 E 125th
†Schaettler, F. (Est. of), 533 W 34th
Shallenberger & Co., Wash'n av & E 138th
†Short, Thos. J., 280 9th av
Smith, Jarvis B., 334 E 27th
Stitt, R. W. & Co., 5 Beekman
Summer, Fred C., 149 8th av
†Terrell, Isaac H., 261 W 27th
†Thayer, T. W. & Co., 18 Broadway
Tide Water Bldg. Co., 16 E 33d
Union Wood Working Co., 103 E 125th
Unionport Lumber & Mfg. Co., 1215 Olmstead av
Van Dyck Panel Mfg. Co., 50 Church
*Van Nest Woodworking Co., West Farms rd. cor Van Nest av
Watson Fireproof Winslow Co., 280 B'way
Whipple, Rich'd, 227 W 50th
Wilson, Jas. G. Mfg. Co., 3 W 29th
Worden & Hausbeck, 63 Park row
Wright Lumber Co., 148 W 38th

### Borough of Queens.

JAMAICA—†Carpenter, Jno. R. Co.
Stansbury, Jas. H.
CORONA—Johnson & Bernstein, 32 Irving pl
LONG ISLAND CITY—†Quinn, H. F. & Son
Weisberg-Mark Co., Orchard c Blvd
OZONE PARK—†Gillespie, Earl A.
ROCKAWAY BEACH—†Crabbe, Charles
METROPOLITAN—†Reich, Val E.

### Borough of Richmond.

PORT RICHMOND—†Mersereau, A. B. & Son
PRINCE BAY—Sprague, Charles B.
Sprague, Charles B.

**(End of New York City)**

NIAGARA FALLS—†Blows & Co.
†Haeberle Lumber Co.
*Steinbrenner, Carl
NORTH TONAWANDA—*Charlton, J. & T.
†Hoadley & Bennett
†Palmer, W. G.
*Thompson, Hubman & Fisher
NORWICH—†Scott, W. L. Lumber Co.
*Wheeler Co.
NYACK—†Gurnee, D.
OGDENSBURG—*Green, Landon A.
*Proctor Mfg. Co.
OLEAN—†Gillingham & Son
*Moore, E. R.
*Troy, Edw.
ONEIDA—†Marcellus, Geo. A.
Ruby, R. B. (Wholesale)
OSSINING—†Terwilliger's, I. Son
†Washburn & Todd
OYSTER BAY—†Hendrickson, A. C. & E. N. Co.
OZONE PARK—(See New York City, Borough of Queens)
PATERSON—*Pendleton & Townsend
PEEKSKILL—†Barker, Asbury
*Brotherton, Wm.
*Lamos, Charles A.
PENN YAN—*Patteson, W. M.
PERRY—*Andrus, David
PHOENIX—Loomis, J. H. & Son
Phoenix Sliding Blind Co. (Blind Tenoned Doors)
PLATTSBURG—*Purdy, F. M.
†Sowles Hardware Co.
PLEASANTVILLE—†Cornell, S. W.
PORT CHESTER—†Slater, Charles W.
PORT HENRY—†Wallace, Geo. W.
PORT JEFFERSON—†Loper Bros.
PORT JERVIS—†Cogo, J. M. & Co., Orchard
PORT RICHMOND—(See New York City, Borough of Richmond)
POTTERSVILLE—†Hicks, H. J.
POUGHKEEPSIE—†Brooks & Co., 46 S Water
†Lumb, Geo. W. & Son, 23 N Water
†Lumb's, Levi Son, 55 Main
PRINCE BAY—(See New York City, Borough
REDWOOD—*Cook & Smith of Richmond)
RHINEBECK—†Ackert & Brown, 45 E Market
RIVERHEAD—Lane Bros.
†Skidmore, Charles
ROCHESTER—Bantleon Bros. Co.
Chapman & Goetzman
Crouch, Beaham Co.
Evans, Chas. P.
Genesee Lumber Co.
Grauwiler, Jno. J.
Rochester Tin Co.
Rugg, C. H. Co.
Smith Sash & Doof Co.
Stalker, G. H.
Sweeting, William
Vogel & Binder Co.
ROME—Beach Lumber Co.
Comstock, E., `e George & Adams
RONDOUT—(See Kingston)
ROSLYN—†Hicks, John D. & Co.
ST. JOHNSVILLE—†Kneeskern, J. H. & Sons
SANDY CREEK—*Skinkle, A. C.
SANDY HILL—*Griffin Lumber Co.
†Kenyon Lumber Co.
SARATOGA SPRINGS—†Todd, E. R.
SCHENECTADY—†Van Voast, Albert & Sons
SIDNEY—*Clark, G. A.
SUSPENSION BRIDGE—(See Niagara Falls)
SYRACUSE—Merriam Mfg. Co.
TROY—*Madden Lumber Co., 599 1st av, Lans
TURIN—*Hughes, Hugh
UTICA—Thomas, P. Sons, south of W. S. R. R.
WALDEN—†Dominick, D. C.
†Hasbrouck & Sloan
WALTON—†Stimpson, Edgar W.
WARRENSBURG—†Pasco, D. E.
WATERLOO—†Nugent & Co.
WATERTOWN—White & Sullivan
WATERVLIET—*Young, J. T.
WATKINS—†Banks & Woodward
WEBSTER—*Leake, S. S.
†O'Dell Bros.
WEST WINFIELD—†Weeks, Geo. S.
WHITEHALL—*Wilson, F. J.
WHITE PLAINS—†Clark, C. H. Co.
WHITESBORO—†Dentan & Waterbury
WILSON—†Dwight, A. N.
YONKERS—†De Angelis, Fred'k
*Lawrence & Conkling
*Mitchell, Sam'l P. (Est. of)
*Yerks Co.

## NORTH CAROLINA.

ASHEVILLE—*Jones, Wm. M. Lumber Co.
†Scott Lumber Co.
*Westall, W. H. & Co.
CHARLOTTE—Carolina Mfg. Co.
DURHAM—Mangum, F. R. & Co.
GREENSBORO—*Cape Fear Mfg. Co.
GREENVILLE—Greenville Mfg. Co.
HENDERSON—*Watkins, Jno. B.
HICKORY—Hickory Mfg. Co.
Hickory Novelty Works
HIGH POINT—*Snow Lumber Co.
NEWBERN—Tolson Lumber Mfg. Co.
NORTH WILKESBORO—*Wilkesboro Mfg. Co.
SANFORD—Sanford Sash & Blind Co.
WILSON—Simms, W. W. Co.

## NORTH DAKOTA.

FARGO—*Bowers Bros.
GRAND FORKS—*Turner, Jas. & Sons
*Turner, Jas. & Sons
MINOT—*City Sash & Door Co. (Wholesale Mfrs.)

## OHIO.

AKRON—Akron Lumber Co.
Lyman Hawkins Lumber Co.
Summit Lumber & Building Co.
ALLIANCE—*Stroup, L.
*Weybrecht's, J. T. Sons

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ASHLAND—*Shearer, Kager & Co.
Thomas, Myers & Wolf
ATHENS—Athens Lumber Co.
Hardwood Finish Co.
BELLAIRE—†Anderson & McGregor
*Dubois & McCoy
BELLEFONTAINE—†Dickinson, Mack & Co.
†Lesourd, A. & Sons
BEREA—†Holmes & Johnson
BLOOMDALE—Linhart, S. A.
BLUFFTON—Althaus, Ewing & Co.
BOWLING GREEN—*Hankey Lumber Co.
BUCYRUS—Roehr, C. Co.
*Vollrath, E. & O.
CADIZ—Long, E. M. & Sons (Wholesale)
CAMBRIDGE—*Forney, C. W.
*Hoyle & Scott
CANAL DOVER—Dover Lumber Co.
Wagner Lumber Co.
CANAL WINCHESTER—Bareis, Geo. F.
CANTON—*Holwick, D. L. Lumber Co.
*Weaver, Jos. & Sons
*Weaver Lumber Co.
CELINA—Estry & Stephenson
CINCINNATI—Brethauer, G. J. Planing Mill Co., 2260 Bogen
Cincinnati Sash & Door Co., 946 W 6th
Dexter Lbr. Co., Montg'y av (Norwood)
Ferris, Chas. S., 250 McCullough
Griffith, Jas. & Sons Co., Reading rd & 12th
Maly Bros. (ltd.), 717 Carr
Mayer, Wm. Co. 644 W 3d
Mills & Ott, 216 George
Morrison & Snodgrass Co.
Snodgrass, S. L. & Son, Builders' & Traders Exch.
Standard Millwork Co., Norwood
Thom, John C. Co., 1215 W 8th
United Building Material Co., 50 Vine
Ward, Brock Sash & Door Co., 616 Freeman av
Weber, Fred. & Bro., 4011 Cherry
CLEVELAND—†Bohm & Stuhr Lumber Co., 6325 B'way
†Cleveland Lumber Co., 8617 Buckeye rd,
*Diamond Glass Co., 1452 25th S E
†Henderson, Fred L., 1804 E 55th, N E
*Lakewood Lumber Co., Berea rd nr Detroit av, N W
*Marquard Sash & Door Mfg. Co., 307 Canal rd, N W
*Ohio Sash & Door Co., 211 Prospect av, N W
*Osborn & Flinkers, 10,217 Berea rd, N W
*Peters' Mill Work & Lumber Co., 1895 Carter rd, N W
*Pfeil, Chas. J. Co., 1905 W 3d, S W
*Potter, Teare & Co., 1918 Carter rd
Standard Sash & Door Co., 5108 Euclid av
Teachout, A. Co., 11722 Euclid av
*Trebing Mfg. Co., 1002 Center
*Whitmer-Jackson Sash & Door Co. (Wholesale Mfrs.)
Zeitz, William & Son, 1928 W 3d, S W
COLLEGE CORNERS—†Miller, Fred.
†Stewart, John H.
COLUMBUS—Baumann, Ferdinand
Bergin, M. J. Lumber Co.
Doddington, E. & Co.
Earl, Andrew
Jones, E. J. & Co.
Knox, Jos. J. Lumber Co.
Linkenheil Planing Mill Co.
McCarty & Priode
Sager, A. C.
Snider, J. J. Lumber Co.
Teachout Sash, Door & Glass Co.
Throop, Martin Co.
CUYAHOGA FALLS—†Bates, A. R. & Co.
*Walsh Milling Co.
DAYTON—*Bouck, O. L.
*Dayton Lumber & Mfg. Co., c Clinton & Bacon
*Requarth, F. A. Co., cor Sears & Monument
Rinderknecht, G. C. & Son, 362 E Huffman av
*Rouzer, John Co., 73 S Wyandot
DELPHOS—*Ricker, Harman & Sons
FINDLAY—*Neff, M. T.
Parker Bros. & Co.
FOSTORIA—Eureka Planing Mill & Lumber Co.
*Koss & German Co.
FREDERICKSBURG—Peterman, A. J.
FREMONT—†Fremont Lumber Co.
*Price Lumber & Mfg. Co.
GALION—*Galion Lumber Co.
GALLIPOLIS—*Mullineux Bros.
HAMILTON—*Bender Co.
*Dingfelder, Wm. M. & Co.
HILLSBORO—Enterprise Planing Mill Co.
KENTON—*Callam, John & Co.
LEBANON—*Monroe & Johnston
LIMA—*Moulton, H. S.
*Ruhler & Miller
*Smith & Sherrick
LOCKLAND—*Lockland Lumber Co.
*Lyons, Albert E.
LORAIN—Lorain Lumber & Mfg. Co.
MANSFIELD—*Ford, S. N. & Co.
Mansfield Lumber Co.
MARYSVILLE—*Robinson & Curry Co.
MECHANICSBURG—*Horr, Jacob
MIDDLETOWN—Caldwell & Iseminger
NAPOLEON—*Thiesen & Hildred
NELSONVILLE—*Krieg, M. A. & Co.
NEW RICHMOND—Fridman Lumber Co.
NILES—†Niles Lumber Co.
ORRVILLE—†Kinney & Sons
PAULDING—†Finan, M.
PIQUA—*Piqua Planing Mill & Lumber Co.
†Wood, C. L.
POMEROY—†Genheimer, Jno.
SANDUSKY—*Sandusky Sash, Door & Lumber Co.
*Schoepfie Mfg. & Lumber Co. Co.
SIDNEY—*Buckeye Churn Co.
SPRINGFIELD—†Brain's Lumber Co., 85 East
†Lion Hardware Co., 80 E Main
†Rawlins, Albert M., Lincoln av c Main
*Springfield Planing Mill & Lumber Co., 335 W Columbia
STEUBENVILLE—†Alexander, W. J.
*McFeeley Bros.
TIFFIN—*Enterprise Mfg. Co.
*Mathias, J. B.
TOLEDO—Campbell Co., 1100 Hoag
Collier-Barnett Co.
Goodsell Mfg. Co., Barncroft & M C R R
Goulet & Co., 125 S St. Clair
Maclaren & Sprague Lumber Co., 202 S St Clair
Scroeder, C. H. Co., c S Erie & Kraus
Western Mfg. Co., Water & Vine
Witker Mfg. Co., Jackson c Water
TROY—†Francis-Clemm & Co.
UPPER SANDUSKY—*Shealy & Stephan
URBANA—†Hubbell, H. M.
VERMILLION—*Bachman, Conrad
WARREN—Warren Mfg. Co.
*Western Reserve Lumber Co.
WILKESVILLE—*Strong, H. B.
WILLOUGHBY—†Jenkins, Chas. C.
WILMINGTON—Fisher Mfg. & Fuel Co.
*Shepherd & Son
WOOSTER—†Curry, D. C. Lumber Co.
XENIA—†McDowell & Torrence Lumber Co.
YOUNGSTOWN—*Dingeldy, Geo. H. (Est of), 35 Basin
*Heller Bros. Co., 346 S Phelps
†Hoffman, Frederick, 436 W Federal
*Huffman Bros., Federal c Reserve
*Youngstown Lumber Co., 726 Mahoning av
ZANESVILLE—*Curtis & Co., 25 8th
†Drake, Thos. Lumber Co., Lee & Amelia
*Herdman Sash, Door & Lumber Co.

## OKLAHOMA.

BARTLESVILLE—Bartlesville Sash & Door Co.
OKLAHOMA CITY—*Griffith, T. A.
*New State Sash & Door Co.
*Oklahoma Sash & Door Co.
*Southwestern Fountain Co.

## OREGON.

BAKER CITY—*Bennett & Son
*Shockley & McMurren Lumber Co.
CANYON CITY—*Southworth, W. S.
DALLAS—*Coad, F. J.
EUGENE—*Midgley, George
INDEPENDENCE—*Bohannon, John S.
KLAMATH FALLS—*Goeller, J. F.
MEDFORD—Medford Sash & Door Co.
MYRTLE POINT—†Huling, Lundy & Son
NORTH BEND—*North Bend Mfg. Co.
PENDLETON—*Forster, Robert
PORTLAND—Acme Planing Mill Co.
Central Door & Lumber Co.
Lucas & Bagley Mfg. Co.
Nicolai Neppach Co.
North Pacific Lumber Co.
Northwest Door Co.
Orgeon Planing Mills Co.
Portland Sash & Door Co.
Schmitt, Frank & Co.
Woodlawn Planing Mills
SILVERTON—*Potter, P. W. & Co.

## PENNSYLVANIA.

ALBION—Grate, C. & Son
ALLENTOWN—Albright, A. A. & Son
*Butz, Fred'k & Co., Howard c Maple
Chamberlin, Robt. J.
Kern Bros.
Trexler Lumber Co.
*Weil, F. W. & Co., 1031 Linden
ASHLAND—*Bright, H. F.
BANGOR—*Bangor Lumber & Mfg. Co.
*Wise Lumber & Coal Co.
BEAVER FALLS—*Beaver Falls Planing Mill & Lumber Co.
*Commercial Sash & Door Co.
*Mitchell, J. S. & Sons
BELLE VERNON—*Belle Vernon Saw & Planing Mill Co.
BENNETT—*Bennett Lumber & Mfg. Co.
BENTON—*Smith, R. T. & Son
BRISTOL—†Pierce & Williams
BROOKVILLE—Anderson Lumber Co.
*Hall & Lucas
CARLISLE—Beeten Lumber & Mfg. Co.
CATASAUQUE—*Wint, F. W. Co. (Ltd.)
CHESTER—*Hamilton, John
CHRISTIANA—*Davis, Harry
CONSHOHOCKEN—*Miller, A. L. & Co.
CORRY—*Clark, Haniel & Son
DUBOIS—*Pifer, G. W. & Sons
Scalan
Smyers, Geo. W.
ELIZABETHVILLE—*Buffington, I. T.
EMLENTON—*Sloan, U.
ERIE—Constable Bros. Co., 5th c Sasafras
Oeming, Alton A.
Felheim, Lyman, 16th & State
Johnson, Jas. D. & Co., 19th & Parade
Schroeck, Adolph, 906 E 11th
Shenk, Henry Co., 12th & Sassafras
EVERETT—Cottage Planing Mill Co.
GETTYSBURG—*Stallsmith, Geo. W.
GLEN ROCK—*Glen Mfg. Co.
HANOVER—*Moul, C. & Co.
*Rohrbaugh, Jno. F.
HARRISBURG—*Boas, D. D. (Est. of)
Central Mill & Lumber Co.
HOMESTEAD—*Feath & Kerr
*Hall, G. M. Co.
JEANETTE—Jeanette Planing Mill Co.
KNOXVILLE—*Edgecomb, I. M. Sons
LANCASTER—Johnson, E. N. & Co.
Keystone Planing Mill
Lancaster Planing Mill Co.
*Wohlsens, Wm. & Son, 417 N Mulberry
LEBANON—*Fox & Graeff
*Miller Bros.
*Reinoehl Lumber Co.
LEHIGHTON—Lehighton Lumber Co.
LEWISBURG—*Nesbit, D. M. Co.
LOCK HAVEN—*Hipple's Estate
MAUCH CHUNK—Neast, Chas. & Co.
MEADVILLE—Cutter, G. H. Lumber Co.
Harper, Walter G. Lumber Co.
Smith, L. F. Lumber Co.
MERCER—Mercer Milling & Lumber Co. (Ltd.)
MIFFLINBURG—*Miller, Enoch
MILLERSBURG—Douden, A. Planing Mill Co.
MILTON—*Clinger, D. & Sons.
*Fetter, Jacob
MONONGAHELA CITY—†Stephens Bros.
MONTGOMERY—*Montgomery Door & Sash Co.
MOSCOW—*Van Brunt, C. P.
MOUNT CARMEL—*Geiger, Gibson & Co.
MOUNT PLEASANT—*Husband Lumber Co.
NAZARETH—*Wunderly Bros.
NEW BETHLEHEM—*Andrews, C. E. Lbr. Co.
NEW BRIGHTON—McDaniel, R. B. Co.
NEW CASTLE—*Acme Lumber Co.
New Castle Lumber & Construction Co.
NEWTOWN—*Watson, A. W. & W. M.
NICHOLSON—†Rought, G. G.
NORRISTOWN—*Grater-Bodey Co. (Inc.)
NORTH WALES—*Weber, O. M. & Son
OIL CITY—†Caldwell Lumber Co.
†Earp & Kelly Lumber Co.
PARKESBURG—*Reid, Adam P.
PEN ARGYL—*Fitzgerald, Speer Co.
PENNSBURG—Pennsburg Mfg. Co.
PHILADELPHIA—Adams Dan'l, 2934 N Marshall
Alcott-Ross Co., 2917 N Broad
Berger, Gustav, 1143 N Front
Felin, Chas. F., Old York rd & Butler
Fite & Arbelo Co., 2431 Glenwood av
Gerry, F. R. Co., 1835 Market
Gibson, W. E., 3527 Market
Hall Bros. & Wood, 5th & Lancaster av
Himsworth, Chas., 1820 E Clearfield
Hoffman Sash & Door Co., 1623 Vine
Jones, Doll & Co., 203 N 22d
Keely, S. S. & Sons, Main & Umbria
Millbourne Lumber Co., 63d & Market
Parker, John & Son, 16th c Fitzwater
Penna Door & Sash Co., 25th & Callowhill
Smith, Geo. W. & Co., 3907 Powelton av
*Swenk, Benson & Co. (Ltd.), 2305 Cherry
Taylor, Chas. J. Co., Norris & Richmond
Watson & Robinson, 40 Queen, Gtn
Wiet, A. & Sons, 723 N Front
PHOENIXVILLE—*Keely, Wm. P.
PICTURE ROCKS—*Fry & Son

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PITTSBURG—Commercial Sash & Door Co., Liberty av & 33d
Diebold Lumber & Mfg. Co., 90 Wabash
Dunbarry, G. D. & Co., 41st & A V R R
Eller Lumber & Mill Co., S 23d & Wharton
Hays & Dodds, North Side
*Hill, Edwin M., 2061 Penna av
Interior Finish Co., North Side
Little, Sam'l J., Planing Mill Co., North
Meess, J. A. & Son, North Side Side
Miller, Wm. & Sons Co.
Munhall, R. J. Lumber Co., 41 S 22d
Penna. Door & Sash Co., 906 2d av
Pittsburg Door & Sash Co., 210 Sagamore
Pittsburg Hardware Door Co., 29 Terminal
Schultze & Emanuel, North Side way
Simon's M. Sons, North Side
Union Planing Mill Co., Putnam & Franks-
PITTSTON—*Dershiner & Griffin town av
Patterson, J. E. & Co.
POTTSTOWN—†Healy, Jos. A. & Bro.
Kline & Price
POTTSVILLE—†Ryon, Jno. P.
Sailor Planing Mill & Lumber Co.
*Wertley, Walter
QUAKERTOWN—Stoneboch, Howard L.
READING—†Rummel, H. F. L.
RIDGWAY—*Hyde, Murphy & Co. (Wholesale)
ROCHESTER—Miller, Wm. & Sons
ROCKWOOD—*Growall, A. J.
ROYERSFORD—*Bush Bros.
ST. MARYS—*Schautt Bros.
SCRANTON—Ansley Lumber Mfg. Co., 801
Benore, John, 706 Scranton Scranton
Peck-Lumber Mfg. Co., 101 E Market
Washburn, Williams & Co.
SHARON—*Wallis & Carley
SHARPSBURG—†Saint, W. J. T.
SOUDERTON—*Hemsing & Son
STEELTON—Steelton Planing Mill Co.
SUNBURY—†Simpson, John & Son
TAYLOR—†Ward, C. F.
TITUSVILLE—Reuting, D. F.
TYRONE—*Beyer, F. D. & Co.
*McCamant, A. H.
UNION CITY—*Clark, Haniel & Son
UNIONTOWN—Huston, John L.
WARREN—*Newmaker & Reed
*Rogers Lbr. Co.
Wetmore, L. D. Co.
WASHINGTON—*Walker & Slater
WATSONTOWN—*Watsontown Door & Sash
WAYNESBORO—*Iless, D. W. Co.
WAYNESBURG—*Funk, J. M.
WEST CHESTER—*Black, S. C.
WEST NEWTON—Scholl, M. F.
WILKES-BARRE—*Lee, Conrad
*Shepherd, W. H. & Sons
WILKINSBURG—*Younk, W. F. Co.
WILLIAMSPORT—*Brown, Clark & Howe
*Crooks, W. D.
*Sones, C. W.
Williamsport Planing Mill Co.
Wood Working & Stair Building Co.
YORK—*Beitzel, Jacob & Sons
Billmeyer & Small Co.
Gidbert, Geo. W.
Noss, Herman & Sons
Seacrist's, Jacob Sons

## RHODE ISLAND.

BRISTOL—†Wardwell Lumber Co.
PAWTUCKET—†Cottrell, John T. Co.
†Pawtucket Sash & Blind Co., 24 Mason
†Tingley, Frank E., Broad c Olive
PROVIDENCE—†Arnold, Wm. E., 326 Dean
*Dodge, J. C. & Son, 530 S Main
†D. S. B. Co., 255 Eddy
*Evans, H. R. & Son, 8 Mathewson
†Harris, Wm. M., Jr., 363 Charles
†Lansing, Geo. D. & Son, 32 Branch av
*Learned, A. C. J. & Co., 5 Charles
†McGowan, Jas. & Co., 14 Exchange pl
*Perkins Bros., 970 Westminster
†Providence Sash & Blind Co., 301 Broad
*Smith, E. E. & Co., 136 Rhodes
*Tingley, Frank E., Broad & Olive
*Vaughn, L. Co.
WESTERLY—†Babcock & Wilcox
†Maxson & Co.
†Sherman, R. A. & Sons
WOONSOCKET—†City Lumber Co.
†Robinson, A. M.

## SOUTH CAROLINA.

ANDERSON—*Barton, J. E.
†Brissey, W. L.
*Townsend, H. C.
BEAUFORT—†Christensen, N. & Sons
CHARLESTON—†Hacker, Geo. S. & Sons
*Wetherhorn & Fischer
CHERAW—*Cheraw Door & Sash Co.
COLUMBIA—†Brown, C. O. & Bro.
†Shand Builders' Supply Co.
†Thomas, H. Co.
FERGUSON—†Santee River Cypress Lum. Co.
GREENVILLE—†Gower Supply Co.
†Morgan & Austin
SPARTANBURG—*Morgan Wood & Iron
†Pearson, J. H. Works
SUMTER—*Kennedy Building & Supply Co.
VARNVILLE—*Ginn, E. R.

## SOUTH DAKOTA.

DEADWOOD—†Fish & Hunter Co.
†Stearns Co.
MADISON—Colman, C. L. Lumber Co.
MITCHELL—†Burns, Robert Lumber Co.
†Davis & Daniels
SIOUX FALLS—†Ross, H. W. Lumber Co.
Sioux Falls Lumber Co.
*†Tuthill, J. W. Lumber Co.
STURGIS—†Anderson, H. O. & Son
*Grams, Wm.
†Voorhees, S. T.

## TENNESSEE.

BRISTOL—*Bristol Door & Lbr. Co.
*Cloyd Bros.
*McCrary Lbr. Co.
*Stone-Huling Lbr. Co.
CHATTANOOGA—*Central Mfg. Co.
*Chattanooga Lumber Co., John c N. C. & St. L. Ry
*East Tennessee Lumber Mfg. Co., Harrison av & T. V. & G. R. R.
*Loomis & Hart Mfg. Co., 719 E 9th
Magill Hardware Co., 729 Market
CLARKSVILLE—*Smith, F. L.
FAYETTEVILLE—*Waggoner & Nuttall
*Williams-Hass Lumber Co.
GALLATIN—Simpson, S. R. & Son
GREENSVILLE—†Adams, T. T.
GREENFIELD—†Dudley, J. W.
HARRIMAN—Flanders Mfg. Co.
†Watts, J. H.
HUMBOLDT—*Campbell, J. E.
†Jerrell, B. C. & Co.
KNOXVILLE—*Atkin, C. B.
*Cooley & Son
*Rose D. M. & Co.
MEMPHIS—†Central Lumber Co.
*Cole Mfg. Co.
†Darnell-Taenzer Lumber Co.
*Friedel, P. R. & Co.
†Jordan, J. P. & Co.
Memphis Sash & Door Co.
*Moore & McFerren, Henry & Wolf River
†Southern Lumber Co.
†Tennessee Lumber Co.
†Williams & Co.
MORRISTOWN—†East Tennessee Wood Work-
NASHVILLE—†Beasley & Sons ing Co.
†Cohn & Goldberg
*Davidson-Benedict Co.
*De Hart, I. N. & Son
*McGinnis & Co.
*Moore, G. & Sons
†Norvell & Wallace, 601 Broad
†Riddle Co.

## TEXAS.

ALBANY—†Rockwell Bros. & Co.
AUSTIN—†Calcasieu Lumber Co., 311 W 2d
†Haldeman & Co., 118 Congress
†Nalle & Co., 609 E 6th
BEAUMONT—*Georgs, C. W. Mfg. Co.
CLARKSVILLE—†Clarksville Lumber Co.
CLEBURNE—Conway-Craig Lumber Co.
COLORADO—†Burton-Lingo Co.
†Roe, A. J.
CORPUS CHRISTI—†Sidbury Lumber Co.
CORSICANA—*Clopton, B. M., Jr.
†Doke, F. Y. & Son
DALLAS—†Campbell-Harriss Lumber Co.
Conkling Planing Mill Co.
†Griffiths & Co., 139 N Lamar
*Illingworth, W., 244 Cochran
†Mayfield, J. S. Lumber Co., Ross av c Mag.
DENISON—†Lingo-Leeper Lumber Co. nolia
DUBLIN—†Smith, H. A. & Co.
†Spencer, H. R.
EL PASO—†Bassett, O. T. & Co. (Inc.)
†Burton, Lingo & Co.
El Paso Sash & Door Co.
FLATONIA—†Cockrill, Milton
*Eidelbach, A.
FORT WORTH—†Armstrong, J. H. & Co.
*Brown, R. L.
*Buckley Planing Mill
†Cameron, Wm. & Co.
†Darnell Lumber Co.
*Lusher & Rockett
*Owens, G. W. Lumber Co.
†Quarles, J. E. Lumber Co.
†Ripy, J. W. & Son
†Roe, A. J.
†Smith, Cicero Lumber Co.
GALVESTON—*Beaumont Saw Mill Co.
†Moore & Goodman, 2827 Mechanic
†Schadt, Wm., 2801 Mechanic
*Smith, J. F. & Bro.
†Wilson, D. M. & Co., 3428 Av N
HALLETTSVILLE—†Hill, T. A. & Son
HOUSTON—Abell, Andrew C. & Co.
Ashmore & Lambert
Bering Mfg. Co.
Border's Lumber Co.
House, Henry
Houston Co-operative Mfg. Co.
Houston Planing Mill Co.
Texas & Louisiana Lumber Co.
Ware, Wm. Lumber Co.
White Pine Grille Mfg. Co.
KERRVILLE—†Remschell, Henry
LAREDO—†Pfeuffer, Geo. & Co.
MARSHALL—*Forslund, Wm.
NAVASOTA—*Youens, J. & Co.
ORANGE—*Miller-Link Lumber Co.
PITTSBURG—†Robinson, J. E.
SAN ANTONIO—†Beitel Lumber Co.
†Hans, E.
†Steves, Ed. & Sons
†West End Lumber Co.
SAN MARCOS—†Mead, C. G.
SHERMAN—†Fielder, A. A. Lumber Co.
†Lyon, O. T. & Son
†Wilson, J. B. & Co.
†Wylie, Wm. T.
SWEET WATER—†Wilkirson, O. L.
TAYLOR—†Thompson, J. A.
TEXARKANA—†Hoffman Hardware Co.
VICTORIA—*Bailey Mills Co.
WACO—†Brazleton & Johnson (Wholesale)
*Cameron, Wm. & Co.
WAXAHACHIE—†Timmons, H. D. Lumber Co.
WILLS POINT—†Matthews, N. A. Lumber Co.

## UTAH.

OGDEN—†Belknap, H.
†Eccles Lumber Co., 154 24th
*Humphries, C. J., 202 21st
PROVO—Ward, E. J. & Sons Co.
SALT LAKE CITY—†Asper, Noall & Co., 151 W North Temple
Commercial Mill & Building Co., 141 3d, W
†Felt, Geo. F. Lumber Co., State c 8th
†Morrison, Merrill & Co., 241 N 3d, W
†Stewart, J. J., 205 S W Temple

## VERMONT.

ARLINGTON—†Lathrop, E. M.
BARRE—†Allen, Stillman D.
BARTON—*Drew, G. A.
BELLOWS FALLS—*Ramsay, R. H.
BENNINGTON—*Bingham, Jos. B.
BRANDON—†Gipson, H. M.
BRATTLESBORO—*Holden & Martin
†Mellen, J. E.
†Robbins & Cowles
BURLINGTON—†Booth, J. R.
*Burlington Venetian Blind Co.
*Champlain Mfg. Co.
*Morgan Bros.
†Spear Bros.
DERBY—*Albee, A. J.
ENOSBURG FALLS—*Manley, A. H.
HARTLAND—†Martin, A. W.
†Martin, F. P.
MIDDLEBURY—*Rogers & Wells
MONTPELIER—†Brooks, Jno. V.
NEWPORT—†White, A. J. & Son
POULTNEY—†Ripley Lumber Co.
RANDOLPH—*Emerson, E. F. Co.
RICHFORD—†Impey, W. M.
*Sweat-Comings Co.
RUTLAND—†Chaffee, F. Sons, 321 West
†Noyes, H. F., 127 State
ST. JOHNSBURY—†Bragg, Alfred L.
†Caldbeck, M. J. & Son
SOUTH SHAFTSBURY—*Eagle Square Mfg.
STOWE—†Straw, John Co.
SWANTON—†Prouty, E. M.
VERGENNES—*Cotey, L. C. & Son
*Vergennes Mfg. Co.
WEST DANVILLE—†Merrill, Augustus W.

## VIRGINIA.

ALEXANDRIA—*Aitcheson & Bro.
*Smoot & Co.
BLACKSTONE—*Blackstone Mfg. Co.
CHARLOTTESVILLE—*Charlottesville Lum-
*King Lumber Co. ber Co.

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DANVILLE—†Anderson, R. I. Co.
*Danville Lumber & Mfg. Co.
*Heidelbach & Penn
HAMPTON—*Hampton Sash & Door Mfg. Co.
†Heffelfinger, Jacob
HARRISONBURG—†Bucher, Wm. M. & Son
LYNCHBURG—†Adams-Monroe Mfg. Co.
†Hutter, C. S.
*Ross, E. E.
†Taylor, W. O.
MANCHESTER—†Woodward & Son
NEWPORT NEWS—†James River Lumber & Supply Co.
†Poarch & Co.
Richardson, R. E.
†Weaver Bros.
NORFOLK—†Clark, Frank T. Co. (Ltd.)
†Nash, C. A. & Son
*Watkins, E. A. & Bros.
†White Hardware Co.
PETERSBURG—†Hargrave, W. T.
†Jefferson, T. J.
†Marks, L. L. Lumber & Supply Co.
PORTSMOUTH—†Hart & Watts
RICHMOND—†Baldwin & Brown, 1557 E Main
*Hardwicke, Chas. W. & Co., 18th c Cary
†Heppert, Jos., 906 Catherine
*Miller & Miller 324 S 6th
*Montague Mfg. Co., 400 S 9th
*Sittering-Carneal-Davis Co., 2001 E Franklin
*Stagg, Thos. C.
*Whitehurst, W. J.
†Woodward & Son, 330 S 9th
ROANOKE—†Catogni Bros., Campbell av c 3d, S E
*Central Mfg. Co., Shenandoah av c 2d
Exchange Lumber Co., 15 2d, S W
†Wilkinson, J. H.
SOUTH BOSTON—†Penick, R. A. & Son
STAUNTON—†Livick, A. J.
†Worthington Hardware Co.
SUFFOLK—†Allen, R. R.
†Folk, E. L. & Co.
WARRENTON—†Wood, D. P. & Co.
WOODSTOCK—*Fravel, Jos.
WYTHEVILLE—Wytheville Mfg. Co.

## WASHINGTON.

BALLARD—*Rines Mfg. Co.
BELLINGHAM—*Bay City Furniture Co.
*Bay City Sash & Door Factory
†Munro, Blake & Haskell
*Whatcom Falls Mill Co.
*Whatcom Sash & Door Co.
BRYANT—*Bryant Lumber & Shingle Mill Co.
CHEHALIS—*Chehalis Fir Door Co.
CANTRALIA—*Harm, Frank D.
CHENEY—†Ratcliffe, Chas. A.
CONNELL—†Myer, C. H.
DAVENPORT—†Baske & Huesmann
DAYTON—†Dayton Lumber Co.
ELMA—†Minard, E. L. & Co.
EVERETT—*Robinson Mfg. Co.
*Everett Sash & Door Co.
*Wheelihan-Weidauer Co.
HOQUIAM—*Hoquiam Sash & Door Co.
MANETTE—*Parks, W. A.
MARYSVILLE—*Kruse Bros. & Norton
MONROE—*Wagner & Wilson (Inc.), (Red Cedar. Wholesale Mfrs.)
NORTH YAKIMA—*Cascade Lumber Co. (Wholesale Mfrs.)
†Howard, A. E.
OAKDALE—†Madison Lumber Co.
OLYMPIA—*Olympia Door Co.
PORT ANGELES—†Martin, Jno. M.
PORT TOWNSEND—*Quimper Mfg. Co.
PRESCOTT—†Geyer, John
SEATTLE—*Ainslie-Boyd Co., Pine & 6th av
†Argo Mfg. Co., Spokane av & East Waterway
*Brace & Hegert Mill Co., Westlake av & Mercer
*Bryant Lumber & Shingle Mill Co., Fremont
*Kramer & Fisher, 1445 Western av
*Lake Washington Mill Co., 834 31st av S
*Lewis & Tucker, 537 Westlake av
*Nelle & Englebrecht, 82 W. Columbia
*Nordquist, Edberg & Nelson, 41 Aetna
*Richardson & Elmer Co., 619 Pine
*Slocum, E. E., 815 1st av, S
*Stetson & Post Mill Co., Water front & Weller
†Uphus, A. J. & Co.
*Vetter, Otto, 1901 East Lake av
*Western Mill Factory, Terry av
†Williams, O. B., 1010 Wester av
SNOHOMISH—*Morgan Bros.
SOUTH BEND—*Cameron, E. H.
SPOKANE—*Dean Lumber & Fuel Co., Reagal & S. F. & N. Tracks
Eastern Lumber Co.
Hosg. Geo. W. Lumber Co.
*Holland-Horr Mill Co.
*Luratsch & Doley Milling Co.
*King Sash, Door & Lumber Co.
Petersen, H. J. Lumber Co.
*Sexton, J. F. & Co.
*Spokane Sash & Door Co.
*Springston Lumber Co.
*Washington Mill Co.
TACOMA—Bismark Mill Co.
East Tacoma Mfg. Co.
Hawkeye Mill Co.
Peterman Mfg. Co.
Richardson & Elmer Co.
Tacoma Fir Door Co.
Tacoma Millwork Supply Co.
Todd, J. L. Lumber Co.
Washington Mfg. Co.
Wheeler-Osgood Co.
WALLA WALLA—*City Lumber Yard & Planing Mill
*Kent Lumber Co.
†Stack, John
†Walla Walla Lumber Co.
*Whitehouse-Crawford Co.

## WEST VIRGINIA.

BLUEFIELD—†Saxon Lime & Lumber Co.
CHARLESTON—†Gates, L. C.
CHARLESTOWN—*Phillips', Wm. Sons
CLARKSBURG—†Williams & Davidson Co.
FAIRMOUNT—†Dickerson Building Supply Co.
HUNTINGTON—†Emmons-Hawkins Hdw. Co.
MORGANTOWN — *Morgantown Planing Mill
WHEELING—*Beltz, J. W. Sons Co. Co.
†Chapman, W. H. & Sons
†Klieves Lumber Co.
†Wilson, W. A. & Sons
†Wood, W. W. Co.

## WISCONSIN.

APPLETON—†Miller Lumber Co.
†Schlafer Hardware Co.
*Standard Mfg. Co.
ASHLAND—†Scott-Taylor Co.
BAGLEY—†Brodt, T. E.
BEAVER DAM—†Roedel & Jacobs
BELOIT—*Cunningham Bros.
BLACK RIVER FALLS—*McGillivray, J. J.
BRILLION—†Brillion Lumber Co.
CEDARBURG—*Hilgen Mfg. Co.
CHILTON—*Dorschel, Schultz & Co.
CHIPPEWA FALLS—*Stanley, F. G. & C. A.
CLINTONVILLE—*Rohrer, D. J.
EAU CLAIRE—*Fish, E. M. & Co.
*Hoeppner, Bartlett & Co.
FOND DU LAC—†Moore & Galloway Lumber Co.
*Steenberg, O. C. Co.
FOX LAKE—†Eggleston & Rodger
GREEN BAY—*East River Planing Mill Co.
*Green Bay Planing Mill Co.
HARTFORD—†Denison-Liver & Coerper
†Hartford Lumber Co.
HAYWARD—*North Wisconsin Lbr. & Mfg. Co.
HELENVILLE—†Reul Bros.
JANESVILLE—Cullen, J. B. Co.
†Fifield Bros. Lumber Co.
KAUKAUNA—*Kaukauna Lumber & Mfg. Co.
KENOSHA—*Grant Mfg. Co.
*Kenosha Sash & Door Co.
KEWAUNEE—*Borgman, Jno. M.
LA CROSSE—†Colman, C. L. Lumber Co.
*Kuhn, R. C. Sash & Door Co.
*Segelke & Kohlhaus Mfg. Co.
*Trow, A. S. & Co.
LAKE GENEVA—†Wilbur Lumber Co.
MADISON—†Brittingham & Hixon Lumber Co.
†Frederickson, A. D. & J. V.
†Silbernagel, J. J.
Strack Mfg. Co.
MANAWA—†Davids & Kinsman
*Little Wolf River Lumber Co.
MANITOWOC—*Christ Schoch Lumber Co.
†Manitowoc Building Supply Co.
MARINETTE—*Linden & Miller
*Marinette Planing Mill Co.
MARSHFIELD—*Bille, Hans
MENASHA—*Menasha Mfg. Co.
MERRILL—*Wright, H. W. Lumber Co.
MILWAUKEE—*Badger Sash & Door Co., 592 Island av
†Butter, Gustav A., 603 Mitchell
*Conway Veneered Door & Mantel Co., St. Paul av ft 20th
*Cream City Sash & Door Co. (Wholesale Mfrs.), 7th av & Park
*Curtis & Yale Co., 204 Grand av
*Gruhl Sash & Door Co., Stewart nr Kinnikinnic av
*Gruhl Sash & Door Co., Stewart nr Kinnikinnic av
*Interior Woodwork Co., 539 Park
*Layton Park Wood Work Co.
†Meckelburg, A. F. Sash & Door Co., 760 31st
†Pederson & Grobben, 598 National av
*Phenix Mfg. Co., Humboldt av & Center
*Poppert, Geo. Mfg. Co., 417 Poplar
*Rockwell Mfg. Co. (Wholesale Mfrs.)
†Schmidt, W. H. & Sons, 305 3d av
†Wilbur Lumber Co., Pabst bldg
*Willer Mfg. Co., 313 Cedar
MONROE—*Monroe Planing Mill Co.
NEW RICHMOND—†Jagger, H. M.
†Willow River Lumber Co.
OMRO—*Morton, C. C. & Co.
OSHKOSH—*Foster, Lothman Mills (Wholesale)
*Gould Mfg. Co. (Wholesale)
*McMillen, R. Co. (Wholesale)
*Morgan Co. (Sash, Open, Glazed; Doors, Veneered Doors, Blinds. Shutters)
*Paine Lumber Co. (Wholesale)
*Radford Bros. & Co. (Wholesale)
PRINCETON—†Yahr, F. J.
RACINE—*Belle City Sash & Door Co.
*Driver, Thos. & Sons Mfg. Co.
*Weber-Bahnemann Co.
RHINELANDER—†Lewis Hardware Co.
RICE LAKE—*Rice Lake Mfg. Co.
RIPON—†Horner & Middleton
Ripon Veneer & Box Works (C. T. Timm, Prop'r)
SAUK CITY—†Lachmund, P. & Son
SHEBOYGAN—*Mueller, H. G. Lumber & Mfg. Co.
*Sheboygan Woodworking Co. Co.
SHIOCTON—†Shiocton Lumber Co.
SPARTA—*Sparta Sash & Door Co.
STEVENS POINT—*Vetter Mfg. Co.
SUPERIOR—*Cowdin, H. F.
*Dam, F. H.
*Shunn, Wm. H.
WATERTOWN—†Lehmann & Schroeder
†Weber, J. & Son
WAUKESHA—*Wilbur Lumber Co.
WAUPACA—†Nelson, A. G. Lumber Co.
WAUSAU—*Werheim Mfg. Co.
WAUWATOSA—*Wauwatosa Sash & Door Factory
WEST ALLIS—*Radcliffe & Porter Mfg. Co.
WESTFIELD—†Kendall, George

## WYOMING.

EVANSTON—†Atkinson, J. L.
RAWLINS—†Daley, R. A.
†Larsen Hans

# 9972—Sashes (English Casement)

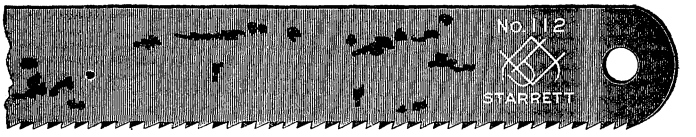
Deissler, P. & Bro., 249 S 6th, Phila, Pa.
Haase, G. J., 147 Baxter, New York

# 9973—Saw Benches or Tables

American Sawmill Machinery Co. ("American"), Hackettstown, N. J.
American Wood Working Machinery Co., Rochester, N. Y.
Atlantic Works (Inc.), Phila., Pa.
Badger State Machine Co. (Self-Feed Rip, Saw & Combination), Janesville, Wis.
Baker Bros. (Universal), Toledo, O.
Baldwin, Tuthill & Bolton (Iron Frame Saw Tables), Grand Rapids, Mich.
Beach Mfg. Co. (Rip & Cut-off), Montrose, Pa.
Berlin Machine Works, Beloit, Wis.
Carey, W. W. Co. (Circular), Lowell, Mass.
Challenge Co., Batavia, Ill.
Chase Turbine Mfg. Co. (Power Feed), Orange, Mass.
Colburn Machine Tool Co. ("Universal"), Franklin, Pa.
Colladay, Jos. O. Co., 626 Race, Phila., Pa.
Connell & Dengler Machine Co. (Iron or Wood Table), Rochester, N. Y.
Covel Mfg. Co., Benton Harbor, Mich.
Crescent Machine Co. (Combination), Leetonia, Ohio
Dodds, Alex. Co. (Circular), Grand Rapids, Mich.
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Fay, J. A. & Egan Co., W. Cincinnati, O.
Fischer Machine Works (Cut-Off & Rip Saw for Box Factories), 1845 Carroll av, Chicago, Ill.
Fox Machine Co. ("Universal"), Grand Rapids, Mich.
Frank Machinery Co., Buffalo, N. Y.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Goodspeed Machine Co., Winchendon, Mass.
Grabo, E. O. (For Metal), 180 Centre, New York
Grand Rapids Hand Screw Co. (Wood Frame), Grand Rapids, Mich.
Greenlee Bros & Co. (Automatic), Railway Exchange bldg. Chicago, Ill. Factory: Rockford, Ill.

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Hildreth Bros. (Tables Only), Harvard, Mass.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machy. Co., Buffalo, N. Y.
Hub Machine Welding & Contracting Co. ("Acme" Metal), 621 Cherry, Phila., Pa.
Humphrey Machine Co., Keene, N. H.
**Hunt Mfg. Co., Sodus, N. Y.**
Kidder, R. E. (Circular, etc.), Worcester, Mass
Kimball Bros. & Sprague (Also Circular), Brockton, Mass.
Murray, D. J. Mfg. Co. (Self Feed, etc.), Wausau, Wis.
Oliver Machinery Co. ("Universal" Saw Benches), Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Root, B. M. Co. (Portable Saw Tables), York, Pa.
Royle, John & Sons, Paterson, N. J.
Savage & Love Co. (Saw Tables), Rockford, Ill.
Sidney Tool Co. ("Defiance" Saw Tables and Jointers), Sidney, O.
**Silver Mfg. Co., Salem, O.**
Smith, H. B. Machine Co., Smithville, N. J.
Sovereign Foundry & Mfg. Co., Lebanon, N. J.
Spangler Mfg. Co. (Circular, etc.), York, Pa.
Stanrard Saw Mill Machy. Co., Erie, Pa.
Stowell, J. A. Co., Leominster, Mass.
**Tidey, F. W., Irvington, N. J.**
**Tidey, M. B., Newark, N. J.**
U. S. Machine Co. (Self Feed), Williamsport, Pa.
U. S. Wind Engine & Pump Co. (Horse Power), Batavia, Ill.
Wachussett Machine Co. (Adjustable), Fitchburg, Mass.
Walker, G. A. Machine Co., Boston, Mass.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

## 9973a—Saw Blades (Band & Jig)

**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**

## 9974— Saw Blades (Cold)

American Saw Works, Hackettstown, N. J.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**
Tindel-Morris Co. (High Carbon Crucible Steel Plate with Inserted Teeth), Eddystone, Pa., & Ellwood City, Pa.

## 9975—Saw Blades (Hack, Flexible Back)

Atkins, E. C. & Co., Indianapolis, Ind.
Simonds File Co., Fitchburg, Mass.
Thompson, Henry G. Son & Co. ("Eureka"), New Haven, Conn.
West Haven Mfg. Co., New Haven, Conn.

## 9976—Saw Blades (Hack, for Metal)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
**PITTSBURGH GAGE & SUPPLY CO.** ("Damascus"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Thompson, Henry G. & Son Co., New Haven, Conn.
West Haven Mfg. Co., West Haven, Conn.

## 9977—Saw Blades in Coils

**SIMONDS MFG. CO., Fitchburg, Mass. (See adv. index & branch offices, end of book)**

## Saw Blades (Stone)

(See Stone Saw Blades, Steel)

## 9978—Saw Blades & Frames (Hack)

(See also Hack Saw Machines)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Armstrong-Blum Mfg. Co. ("Marvel" Drawcut), 337 N Francisco, W, Chicago, Ill.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Boker, Herman & Co. ("Intra" Hack Saw Blades), 101 Duane, New York
Boston Saw & Tool Co. ("Champion"), Boston, Mass.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
**BUFFUM TOOL CO. (Solid Hack Saw** Frames Only), Louisiana, Mo. (See adv. index & branch offices, end of book)
Burroughs Tool Co. ("Burro" also Flexible Back), 91 Murray, New York. Factory: Springfield, Mass.
Clemsen Bros., Middletown, N. Y.
Clemson Knife Co., Woburn, Mass.
Diamond Saw & Stamping Works ("Sterling," also "Sterling," for Railroad & Structural Steel Work), Buffalo, N. Y.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Goodell-Pratt Co. ("The G."), Greenfield, Mass.
Griffin, G. W. & Co., Franklin Falls, N. H.
Grover, John B. File Co., Nashua, N. H.
**HAMMACHER, SCHLEMMER & CO.** (Flexible Back for Metal, etc.), 133 4th av, New York. (See adv. index, end of book)
Harris, Samuel & Co., 114 N Clinton, Chicago, Ill.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Lutz File Co. ("Victor"), Cincinnati, O.
Massachusetts Saw Works ("Victor," "Diamond"), Chicopee, Mass.
Millers Falls Co. ("Star"), 28 Warren, New York. Works, Millers Falls, Mass.
National Saw Co., Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Olmsted, L. H., Hasbrouck Heights, N. J.
Quality Saw & Tool Works ("Quality"), Springfield, Mass.
Q. M. S. Co., Plainfield, N. J.
Robertson Mfg. Co., Buffalo, N. Y.
Robinson, M. W. Co. ("Robinson" Extension & "Union Solid Frames"), 88 White, New York
S. & I. Co. ("S. & I."), Springfield, Mass.
Sawyer Tool & Mfg. Co., Fitchburg, Mass.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**SMITH & HEMENWAY CO. ("Red** Devil" Hack Saw Frame), 150 Chambers, New York. (See adv. index, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Thompson, Henry G. & Son Co. ("Milford" Hack Saw & Blade; also "Crescent," "I. X. L.," "Eureka," "Lock Extension," "No. 3 & 5"), New Haven, Conn.
Tower & Lyon Co., 95 Chambers, New York
Union Hardware Co. (Frames Only), Torring-
Union Saw Co., Williamsport, Pa. ton, Conn.
Western Tool & Mfg. Co. (Movable), Springfield, O.
West Haven Mfg. Co. ("Universal," "Utility") West Haven, Conn.

## 9979—Saw Bucks & Frames

Brennan & Co., Louisville, Ky.
Chapin-Stevens Co. (Turning Saw Frames & Saws), Pine Meadow, Conn.
Corinth Engine & Boiler Works, Corinth, Miss.
Doscher Plane & Tool Co. ("Acme" Roller Saw Bucks), Saugatuck, Conn.
Galloway, Wm. Co., Waterloo, Ia.
Hunt, Helm, Ferris & Co., Harvard, Ill.
Jennings, C. E. Co., 42 Murray, New York
Rockford Engine Works ("Rockford" Tilting Table Pole Saw Frame), Rockford, Ill.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Tucker & Dorsey Mfg. Co. ("Hoosier" Folding Saw Buck), Indianapolis, Ind.

## 9979a—Saw Coils (Butchers')

**AMERICAN TAP & DIE CO. ("Nichols Bros.," 50 feet long), Greenfield, Mass.** (See adv. index, end of book)

## Saw Filers & Setters

(See Machines, Saw Filing & Setting; also Machines, Saw Sharpening)

## 9980—Saw Mill Contruction (Fire-Proof)

**WORDEN-ALLEN CO., P. O. BOX** 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 9981—Saw Mill Feeds (Steam)

Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works, Minneapolis, Minn.
Filer & Stowell Co., Milwaukee, Wis.
International Endless Chain Saw Co., 34 University pl, New York
Pawling & Harnischfeger (Steam Feed Engines), Milwaukee, Wis.
Stearns Co., Erie, Pa.
Soule Steam Feed Works, Meridian, Miss.

## Saw Mills

(See Lumber Manufacturers)

## 9982— Saw Mills (Band)

**ALLIS-CHALMERS CO. (Single & Double** Cutting), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Berlin Machine Works, Beloit, Wis.
Clark Bros. Co., Belmont, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.

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Corinth Engine & Boiler Works, Corinth, Miss.
Diamond Iron Works ("Wilkinson," Single & Double Cutting), Minneapolis, Minn.
**Dubois Iron Works, Dubois, Pa.**
Filer & Stowell Co., Milwaukee, Wis.
Garland, M. Co., Bay City, Mich.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
Hill, W. E. & Co., Kalamazoo, Mich.
Humphrey Machine Co., Keene, N. H.
Lombard Iron Works & Supply Co., Augusta, Ga.
McDonough Mfg. Co., Eau Claire, Wis.
Manistee Iron Works Co., Manistee, Mich.
Mershon, Wm. B. & Co., Saginaw, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Phoenix Mfg. Co. (Portable, etc.), Eau Claire, Wis.
Portland Iron Works (Inc.), Portland, Ore.
Sinker-Davis Co., Indianapolis, Ind.
Stearns Co., Erie, Pa.
Wickes Bros., Saginaw, Mich.

## 9983—Saw Mills (Circular)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Saw Mill Machinery Co., Hackettstown, N. J.
Bartley, Wm. & Son (Portable), Bartley, N. J.
Berlin Machine Works, Beloit, Wis.
Chandler & Taylor Co., Indianapolis, Ind.
Chase Turbine Mfg. Co., Orange, Mass.
Clark Bros. Co., Belmont, N. Y.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
**Diamond Iron Works, Minneapolis, Minn.**
**Enterprise Mfg. Co., Columbiana, Ohio.**
**Farquhar, A. B. Co. (Ltd.), York, Pa.**
Filer & Stowell Co., Milwaukee, Wis.
Fisher & Davis Mfg. Co., St. Louis, Mo.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co., Richmond, Ind.
Garland, M. Co., Bay City, Mich.
Geiser Mfg. Co., Waynesboro, Pa.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
**Hellman Machine Works, Evansville, Ind.**
**Herrick, Chas. E., Northampton, Mass.**
Hill, W. E. & Co., Kalamazoo, Mich.
Humphrey Machine Co., Keene, N. H.
Knight Mfg. Co., Canton, O.
Lane Mfg. Co. (Lane Patent Lever-Set), Montpelier, Vt.
**Lombard Iron Wks. & Supply Co., Augusta, Ga.**
**Lyon Iron Works ("Standard"), Greene, N. Y.**
McEwen Bros., Wellsville, N. Y.
**McNamar Machine Works, Newark, O.**
**Moltz, Jacob J., Williamsport, Pa.**
Murray, D. J. Mfg. Co., Wausau, Wis.
**New York Engine Co., Watertown, N. Y.**
**Phoenix Mfg. Co., Eau Claire, Wis.**
**Port Huron Mfg. Co., Port Huron, Mich.**
**Robinson & Co., Richmond, Ind.**
Rockford Mfg. Co., Indianapolis, Ind.
**Russell & Co., Massillon, O.**
**Salem Iron Works, Winston Salem, N. C.**
Scheidler Machine Works Co., Newark, O.
Sinker-Davis Co., Indianapolis, Ind.
**Smalley Mfg. Co., Manitowoc, Wis.**
**Southern Engine & Boiler Works, Jackson, Tenn.**
**Sovereign Foundry & Mfg. Co., Lebanon, N. J.**
**Spangler Mfg. Co., York, Pa.**
**Standard Saw Mill Machinery Co., Erie, Pa.**
Stearns Co., Erie, Pa.
**Union Iron Works, Bangor, Me.**
**Wheland Machine Works, Chattanooga, Tenn.**
**Wickes Bros., Saginaw, Mich.**

## 9984— Saw Mills (Drag)

American Saw Mill Machinery Co., Hackettstown, N. J.
Butterworth & Lowe, Grand Rapids, Mich.
Chandler & Taylor Co., Indianapolis, Ind.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Filer & Stowell Co., Milwaukee, Wis.
**Garland, M. Co., Bay City, Mich.**
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
**Globe Foundry & Machine Co. (Self-Feed), Sheboygan, Mich.**
**Hill, W. E. & Co., Kalamazoo, Mich.**
**Howell, R. R. & Co., Minneapolis, Minn.**
**Kline, Lewis T. (Drag Saw Machines), Alpena, Mich.**
International Endless Chain Saw Co., 34 University pl, New York
Lane Mfg. Co., Montpelier, Vt.
**Lyon Iron Works ("Standard"), Greene, N. Y.**
St. Albans Foundry Co., St. Albans, Vt.
Smalley Mfg. Co., Manitowoc, Wis.
Southern Engine & Boiler Works, Jackson, Tenn.
Stearns Co., Erie, Pa.
Trevor Mfg. Co. (For Handle Factories, etc.), Lockport, N. Y.
Union Iron Works, Bangor, Me.
Wickes Bros. (Belt or Steam), Saginaw, Mich.

## 9985— Saw Mills (Gang)

Adams, S. & Son, Rome, N. Y.
American Saw Mill Machinery Co., Hackettstown, N. J.
Bartlett, A. F. & Co., Saginaw, Mich.
Berlin Machine Works, Beloit, Wis.
Diamond Iron Works ("Diamond" Belt, etc.), Minneapolis, Tenn.
Filer & Stowell Co., Milwaukee, Wis.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
International Endless Chain Saw Co., 34 University pl, New York
Stearns Co., Erie, Pa.
Union Iron Works, Bangor, Me.
Wickes Bros., Saginaw, Mich.

## 9986—Saw Mills (Portable)

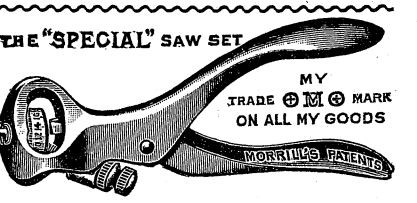
Abenaque Machine Works (Circular Saw Outfit), Westminster Station, Vt.
American Saw Mill Machinery Co., Hackettstown, N. J.
Aultman & Taylor Machinery Co., Mansfield, O.
Burlingame, A. Co., Worcester, Mass.
**Chandler & Taylor Co., Indianapolis, Ind.**
Comstock, Geo. S. ("U. S. Standard"), Mechanicsburg, Pa.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Enterprise Mfg. Co. ("New Buckeye"), Columbiana, Ohio
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fisher & Davis Mfg. Co., St. Louis, Mo.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co., Richmond, Ind.
Geiser Mfg. Co., Waynesboro, Pa.
**Heilman Machine Works, Evansville, Ind.**
**Hench & Dromgold Co., York, Pa.**
**Howell, R. R. & Co., Minneapolis, Minn.**
International Endless Chain Saw Co., 34 University pl, New York
June, D. & Co., Fremont, O.
**Keck-Gonnerman Co., Mount Vernon, Ind.**
**Lombard Iron Works & Supply Co., Augusta, Ga.**
Liddell Co., Charlotte, N. C.
Lyon Iron Works, Greene, N. Y.
Mansfield Machine Works, Mansfield, O.
Mecklenburg Iron Works, Charlotte, N. C.
Port Huron Engine & Thresher Co., Port Huron, Mich
**Reeves & Co., Columbus, Ind.**
Robinson & Co., Richmond, Ind.
Russell & Co., Massillon, O.
Salem Iron Works, Winston-Salem, N. C.
Scheidler Machine Works, Newark, O.
Sergeant Mfg. Co., Greensboro, N. C.
Southern Engine & Boiler Works, Jackson, Tenn.
Spangler Mfg. Co., York, Pa.
Sparta Iron Works Co., Sparta, Wis.
Standard Saw Mill Machinery Co., Erie, Pa.
Thomas-Albright Co., Goshen, Ind.
Westinghouse Co., Schenectady, N. Y.

## 9987— Saw Re-Toothers

(See Saw Stretching Machines)

## 9988— Saw Sets

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich
Bemis & Call Hdw. & Tool Co., Springfield, Mass.
Bergman Tool Mfg. Co., Buffalo, N. Y.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Boker, Herman & Co. (Imported), 101 Duane, New York
Bonney Vise & Tool Works, Allentown, Pa.
Buckeye Saw Vise Co. ("Foote"), Cleveland, Ohio
Bullock Mfg. Associates ("Lester," "Leach Pattern," "Aiken Pattern"), Springfield, Mass.
Central City Bolt Co. (For Band & Circular Saws), Syracuse, N. Y.
Covel Mfg. Co., Benton Harbor, Mich.
Disston, Hy. & Sons (Inc.) ("Monarch," "Champion," "Bully Boy," "Samson," "Star," "Triumph"), Tacony, Phila., Pa.
**Foote, J. B. Foundry Co. (Foote Hammer), Frederickstown, O.**
Goodell-Pratt Co., Greenfield, Mass.
Holt, Gardner L. ("Holt"), Hartford, Conn.
Humason & Beckley Mfg. Co. ("Nash's"), New Britain, Conn.
Hurst, H. L. Mfg. Co., Canton, O.
Johnson, Wm. (Hedenberg Works, Hammer, Common & Stillman Lever), Newark, N. J.
Kilborn & Bishop Co. ("Whiting & Woodman Forged"), New Haven, Conn.
Kohler, F. E. Co. ("Royal," "Giant"), Canton, O.
Lowentraut, P. Mfg. Co. ("Aiken's"), Newark, N. J.
**MORRILL, CHAS. ("Morrill"), 277 B'way, New York.** (See adv. index, end of book)

MANUFACTURED BY
**CHAS. MORRILL, 277 Broadway, N. Y.**


National Saw Co., Newark, N. J.
Peck, Stow & Wilcox Co. ("The Elrich"), Southington, Conn.
Prouty, C. & Co. (Steel), Eldred, Pa.
Sargent & Co. ("Aiken"), New Haven, Conn.
Sayre, L. A. & Co. ("Holt Pattern," "Peerless," "Aiken Pattern"), Newark, N. J.
Seymour, Smith & Son, Oakville, Conn.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)
Smith, Seymour & Son (Hammer & Lever), Oakville, Conn.
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, end of book)
Springfield Machine Screw Co., Springfield, Mass.
Stearns, E. C. & Co. ("Stearns"), Syracuse, N. Y.
Taintor Mfg. Co. ("Taintor"), 113 Chambers, New York
Vom Cleff & Co. (Imported), 105 Duane, New York
Wiebusch & Hilger (Imported), 106 Lafayette, New York

## 9989— Saw Slashers

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works, Minneapolis, Minn.
Filer & Stowell Co., Milwaukee, Wis.
Garland, M. Co., Bay City, Mich.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)

## 9990— Saw Swages

Ajax Mfg. Co. ("Ibsen Bros."), Pittsburg, Pa.
Atkins, E. C. & Co. ("The Victor"), Indianapolis, Ind.
Canton Saw Co., Canton, Ohio
Covel Mfg. Co., Benton Harbor, Mich.
Crowell, D. J., Buffalo, N. Y.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co. (Solid Steel), Beaver Falls, Pa.
Garland, M. Co., Bay City, Mich.
Hanchett Swage Works (Adjustable foot Circular Saws, etc.), Big Rapids, Mich.
Hinds, Thos., Malone, N. Y.
**Hoe, R. & Co., 504 Grand, New York**
Mixter, J. W Saw Tool Co. ("Mixter" Duplex Saw Tooth Swage), Plymouth, Mass.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
Phoenix Mfg. Co. ("White"), Eau Claire, Wis.
Pribnow Swage & Tool Works ("Pribnow"), Mellen, Wis.
Rogers, Samuel C. & Co., Buffalo, N. Y.
Rowe & Trunnel, Cincinnati, O.
**SIMONDS MFG. CO., Fitchburg, Mass.** (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta, Ga.

## Saw Tables

(See Saw Benches or Tables; also Saw Tables for Metal)

## 9991—Saw Tables for Metal

Grabo, E. O., 180 Centre, New York
Hub Machine Welding & Contracting Co. ("Acme"), 623 Cherry, Phila., Pa.
Johnson, Israel H., Jr., Co., 337 N 15th, Phila., Pa.

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## 9992— Saw Teeth

Keystone Drop Forge Works (Drop Forge), Chester, Pa.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**United Saw Mfg. Co., Kane, Pa.**

## 9992a—Saw Teeth (Diamond)

**MEYERS, WILLARD F. ("Diabrasive"),** 342 Vernon av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 9993—Saw & Hook (Pruning)

**Cronk & Carrier Mfg. Co. ("Elmira"), Elmira, N. Y.**

## 9994—Sawing Rigs (Portable, on Wheels)

Charter Gas Engine Co. (For Cord Wood or Pole Sawing), Sterling, Ill.
**FAIRBANKS, MORSE & CO. (With** Horizontal Tank or Vertical Evaporator Tank Engine), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Rockford Engine Works (Equipped with Gasoline Engine), Rockford, Ill.
Smith, Geo. D., Fisher bldg, Chicago, Ill.
Stover Engine Works (With Gasoline Engine), Freeport, Ill.

## 9995— Saws

(Under this Heading See Sub-classifications)

**Albany Saw Works Co., Albany, N. Y.**
**Ambler Saw Mfg. Co., Natick, Mass.**
**American Saw Works, Hackettstown, N. J.**
**Andrews, E. & Sons** (Solid & Inserted), Williamsport, Pa.
Atkins, E. C. & Co., Indianapolis, Ind.
Barry Saw Co., Indianapolis, Ind.
Barcus Bros., Muskegon, Mich.
Barnes Tool Co., New Haven, Conn.
**Beach Mfg. Co. (Cut-off Wood, Double & with 2 & 3 Tracks), Montrose, Pa.**
Birmingham Saw Works, Birmingham, Ala.
Bishop, G. H. & Co., Lawrenceburg, Ind.
Branch Saw Co., St. Louis, Mo.
Broadhead, Jos., Manistee, Mich.
**Buckeye Saw Mfg. Co., Columbus, O.**
**California Saw Works, San Francisco, Cal.**
**Canton Saw Co., Canton, O.**
**Chattanooga Saw Works, Chattanooga, Tenn.**
**Clemson Bros., Middletown, N. Y.**
**Curtis & Co. Mfg. Co., St. Louis, Mo.**
**Detroit Saw & Tool Works, Detroit, Mich.**
**Disston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.**
**Edge, Frank & Co., Grand Rapids, Mich.**
**Elmira Saw & Machine Co., Elmira, N. Y.**
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
**Fisherville Saw Co., Penacook, N. H.**
Fox, J. E. Saw Works (Inc.), Seattle, Wash.
Gerlach, Peter Co., Cleveland, O.
Godfrey, Andrew E., Canal Dover, O.
Goes, Oscar & Co., 121 N Canal, Chicago, Ill.
**Hastings, Arthur J. & Co.,** Railroad pl, Newark, N. J.
Hendrikson, B. J. & Co., 130 N Jefferson, Chicago, Ill.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
**Hoe, R. & Co., 504 Grand, New York**
**Hunter Saw & Machine Co.** (Circular Saws for Metal), Pittsburg, Pa.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Kennedy, Ralph M., 111 N 7th, Phila., Pa.
Kentucky Saw Works (J. B. Semor, Prop.), Louisville, Ky.
Lippert, E. T. Saw Mfg. Co., Millvale, Pa.
McNiece, Wm. & Son, 515 Cherry, Phila., Pa.
Menominee Saw Co., Menominee, Mich.
Michigan Saw Co., Saginaw, Mich.
Miner, J. H., Lumberton, Miss.
Moore Bros., Jamestown, N. Y.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
Penfield Saw Works, Bristol, Conn.
Rowe & Trunell, 123 W 2d, Cincinnati, O.
Schwartz, M. Sons, Bangor, Me.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta, Ga.
Terhune, E. L., 69 Cenere, New York
Thompson, H. G. & Son Co., New Haven, Conn.
Toland & Son, Baltimore, Md.
Toledo Saw Co., Toledo, O.
**Union Saw Co., Williamsport, Pa.**
**United Saw Mfg. Co., Kane, Pa.**
Ward, Wm., Bay City, Mich.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 9995a— Saws (Back)

(See Saws, Mitre Box)

## 9996— Saws (Band)

**Ambler Saw Mfg. Co., Natick, Mass.**
Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, G. H. & Co., Lawrenceburg, Ind.
Branch Saw Co., St. Louis, Mo.
Burroughs Tool Co. ("Burrs," for Metal, in Coils), 91 Murray, New York
Atkins, E. C. & Co., Indianapolis, Ind.
**Bishop, G. H. & Co., Lawrenceburg, Ind.**
Canton Saw Co., Canton, O.
Clemen Bros., Middletown, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Detroit Saw & Tool Works, Detroit, Mich.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Edge, Frank & Co., Grand Rapids, Mich.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Griffin, G. W. Co., Franklin Falls, N. H.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
**Hoe, R. & Co., 504 Grand, New York**
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
International Endless Chain Saw Co., 34 University pl, New York
**Kennedy, Ralph M., 111 N 7th, Phila., Pa.**
**Lippert, E. T. Saw Mfg. Co., Millvale, Pa.**
McNiece, Wm. & Son (Imported), 515 Cherry, Phila., Pa.
National Saw Co., Newark, N. J.
Oldham, Joshua & Sons, 112 26th, Brooklyn, New York
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**SMITH & HEMENWAY CO. ("Red** Devil," Hand Blades, Flexible), 150 Chembers, New York. (See adv. index, end of book)
**Southern Saw Works, Atlanta, Ga.**
Terhune, E. L., 69 Centre, New York
Toland & Son, Baltimore, Md.
Toledo Saw Co., Toledo, Ohio
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## Saws (Band Sprue)

(See Band Sprue Sawing Machines)

## 9997— Saws (Bilge)

Atkins, E. C. & Co., Indianapolis, Ind.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.

## 9998— Saws (Blind Slat)

Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.

## 9999— Saws (Bracket)

Millers Falls Co., 28 Warren, New York

## 10000— Saws (Buck)

Atkins, E. C. & Co., Indianapolis, Ind.
**Disston, Henry & Sons (Inc.), Phila., Pa.**
National Saw Co., Newark, N. J.
Union Saw Co., Williamsport, Pa.
**Wilson Saw & Mfg. Co.** ("Wilson"), Port Huron, Mich.

## 10001—Saws (Butchers', Etc.)

Andrews, E. & Sons, Williamsport, Pa.
Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. Co., Lawrenceburg, Ind.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Chatillion, Jno. & Sons ("Chatillion"), 85 Cliff, New York
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Massachusetts Saw Works ("Diamond"), Chicopee, Mass.
Millers Falls Co. ("Star" Crucible Steel Back), 28 Warren, New York
National Saw Co. ("Richardson"), Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
**Reading Hardware Co., Reading, Pa.**
Ross, James, 107 E Court, Cincinnati, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Thompson, H. G. & Son Co. (Polished, also in Coils of 50 feet), New Haven, Conn.
White, L. & I. J. Co., Buffalo, N. Y.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10002—Saws (Circular)

American Saw Works, Hackettstown, N. J.
Atkins, E. C. & Co., Indianapolis, Ind.
Barcus Bros., Muskegon, Mich.
**Barnes, W. F. & Jno. Co., Rockford, Ill.**
Branch Saw Co., St. Louis, Mo.
Buckeye Saw Mfg. Co. (Inserted & Solid Tooth), Columbus, O.
Canton Saw Co., Canton, O.
Chattanooga Saw Works (Solid Tooth), Chattanooga, Tenn.
Clemsen Bros., Middletown, N. Y.
Curtis & Co. Mfg. Co. (Solid & Inserted Teeth), St. Louis, Mo.
Detroit Saw & Tool Works, Detroit, Mich.
**Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.**
Eagle Saw Wks, Chattanooga, Tenn.
Emerson, Smith & Co., Beaver Falls, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foucart, J. E., Williamsport, Pa.
Gerlach, Peter Co., Cleveland, O.
Hiles, C. A. & Co. (Solid Tooth, etc.), 14th & Western av, Chicago, Ill.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
International Endless Chain Saw Co., 34 University pl, New York
Kennedy, Ralph M., 111 N 7th, Phila., Pa.
**Lippert, E. T. Saw Mfg. Co., Millvale, Pa.**
McNiece, Wm. & Son, 515 Cherry, Phila., Pa.
**Marston, J. M. & Co.** (Hand & Foot Power), 226 Ruggles, Boston, Mass.
Menominee Saw Co., Menominee, Mich.
Michigan Saw Co., Saginaw, Mich.
National Saw Co., Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
Penfield Saw Works, Bristol, Conn.
Rowe & Trunnell, 123 W 2d, Cincinnati, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta, Ga.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Tabor Mfg. Co. ("Taylor-Newbold"), 18th & Hamilton, Phila., Pa.
Terhune, E. L., 69 Centre, New York
Toledo Saw Co., Toledo, O.
Union Saw Co., Williamsport, Pa.
Wilson Saw & Mfg. Co. ("Wilson" Solid & Inserted Tooth), Port Huron, Mich.

## 10003—Saws (Circular, for Metal)

American Saw Works, Hackettstown, N. J.
**CROWELL, J. GILMER (Fine, for** Cutting Gold, Silver, etc.), 296 Taaffe pl, Brooklyn, N. Y. (See adv. index, end of book)
Atkins, E. C. & Co., Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hunter Saw & Machine Co. (For Hot or Cold Metal Crucibles, Slate, etc.), Pittsburg, Pa
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 10004—Saws (Circular, Stone)

Fuller, Geo. L. (Diamond), Utica, N. Y.
Lincoln Iron Works (For Soft Stone, etc.), Rutland, Vt.
Meyers, W. F., Long Island City, N. Y. City
Ohlen, J. & Sons, Saw Mfg. Co., Columbus, O.

## Saws (Cold)

(See Cold Saw Cutting-Off Machines)

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## 10005— Saws (Compass)

Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
National Saw Co., Newark, N. J.
S. & I. Co. ("S & I"), Springfield, Mass.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Union Saw Co., Williamsport, Pa.
Wilson Saw & Mfg. Co., Port Huron, Mich.

## 10006— Saws (Concave)

Atkins, E. C. & Co., Indianapolis, Ind.
Barry Saw Co., 228 S Penn, Indianapolis, Ind.
Canton Saw Co., Canton, O.
Disston, Henry & Sons (Inc.) (Circular, etc.), Tacony, Phila., Pa.
Emerson, Smith & Co., Beaver Falls, Pa.
Gerlach, Peter Co. (Circular), Cleveland, O.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Lippert, E. T. Saw Mfg. Co., Millvale, Pa.
Menominee Saw Co., Menominee, Mich.
Michigan Saw Co., Saginaw, Mich.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta, Ga.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 10007— Saws (Coping)

Atkins, E. L. & Co. ("Jones"), Indianapolis, Ind.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Burroughs Tool Co. ("Burro"), 91 Murray, New York. Factory: Springfield, Mass.
Griffin, G. W. Co., Franklin Falls, N. H.
Jennings, C. E. & Co., 42 Murray, New York
Millers Falls Co., 28 Warren, New York
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end o book)

## 10008—Saws (Cotton Gin)

Turner's, Jonathan F. Sons, Ossining, N. Y.

## 10009— Saws (Cross-Cut)

Albany Saw Works Co., Albany, N. Y.
Andrews, E. & Son, Williamsport, Pa.
Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Branch Saw Co., St. Louis, Mo.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Henry & Sons, Tacony, Phila., Pa.
Emerson, Smith & Co., Beaver Falls, Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Menominee Saw Co., Menominee, Mich.
Moore Bros., Jamestown, N. Y.
National Saw Co., Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Prouty, C. & Co., Eldred, Pa.
Root, B. M. Co., York, Pa.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Union Saw Co., Williamsport, Pa.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10010— Saws (Cylinder)

Atkins, E. C. & Co., Indianapolis, Ind.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Gerlach, Peter Co., Cleveland, O.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.

## 10011— Saws (Dehorning)

Atkins, E. C. & Co., Indianapolis, Ind.
Barnes, W. F. & John Co., Rockford, Ill.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Disston, Henry & Sons, Tacony, Phila., Pa.
Goodell-Pratt Co., Greenfield, Mass.
Hiles, C. A. & Co., Chicago, Ill.
Millers Falls Co. ("Star"), 28 Warren, New York
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10012— Saws (Diamond)

Anderson, Geo. V. & Co. (Ltd.) (Circular), Newark, N. J.
Atkins, E. C. & Co., Indianapolis, Ind.
Diamond Saw & Stamping Co., Buffalo, N. Y.
Fuller, Geo. L. (Circular), Utica, N. Y.
**MEYERS, WILLARD F. (Reciprocating & Circular),** 342 Vernon av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 10013— Saws (Drag)

Atkins, E. C. & Co., Indianapolis, Ind.
Baldwin Tuthill & Bolton, Grand Rapids, Mich.
Branch Saw Co., St. Louis, Mo.
Canton Saw Co., Canton, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Henry & Son (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Heebner & Sons (Horse Power), Lansdale, Pa.
Hoe, R. & Co., 504 Grand, New York
Howell, R. R. & Co., Minneapolis, Minn.
Kline, Lewis T., Alpena, Mich.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10014— Saws (Drop)

United Engineering & Foundry Co. (Motor Driven), Pittsburg, Pa.

## 10015—Saws (Endless Chain)

Berlin Machine Works, Beloit, Wis.
International Endless Chain Saw Co. ("International," Endless Chain Cross-Cut & Rip Saws), 34 University pl, New York

## 10015a—Saws (Flexible Back Band)

(See Saw Blades, Hack, Flexible Back)

## 10016 Saws (Gang)

Atkins, E. C. & Co., Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Canton Saw Co., Canton, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Hy. & Sons (Inc.), Tacony, Phila. Pa.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Flynn & Emrich Co. (Stone), Baltimore, Md.
Foucart, J. E., Williamsport, Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hoe, R. & Co., 504 Grand, New York
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Southern Saw Works, Atlanta, Ga.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## Saws (Gang, Stone & Slate)

(See Stone Gang Sawing Machines)

## 10017—Saws (Grooving)

Atkins, E. C. & Co., Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hoe, R. & Co., 504 Grand, New York
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Michigan Saw Co., Saginaw, Mich.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, New York
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## Saws (Hack)

(See Saw Blades & Frames, Hack; also Hack Saw Machines)

## 10018— Saws (Hand)

Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Clemsen Bros., Middletown, N. Y.
Disston, Henry & Sons, Tacony, Phila., Pa.
**RAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Jennings, C. E. & Co., 42 Murray, New York
National Saw Co., Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
S. & I. Co. (Panel & Rip), Springfield, Mass.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Union Saw Co., Williamsport, Pa.
What Cheer Tool Co. ("What Cheer" Miners), What Cheer, Ia.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.


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## 10019—Saws (Hand Hack)

Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## Saws (Heading)

(See Saws, Shingle & Heading)

## 10019a—Saws (High Speed Friction)

**RYERSON, JOS. T. & SON ("Ryerson"),** 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

## Saws (Hot, Cut-off)

(See Machines, Hot Sawing)

## 10020— Saws (Ice)

Albany Saw Works Co., Albany, N. Y.
Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Branch Saw Co., St. Louis, Mo.
Clemsen Bros., Middletown, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Gerlach, Peter Co., Cleveland, O.
Gifford-Wood Co., Hudson, N. Y.
**Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.**
Hoe, R. & Co., 504 Grand, New York
International Endless Chain Saw Co., 34 University pl, New York
National Saw Co., 15 River, Newark, N. J.
**Norlund Mfg. Co., Williamsport, Pa.**
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
**Oldham, Joshua & Sons, 112 26th, Brooklyn** New York
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10021—Saws (Inserted Teeth)

American Saw Works, Hackettstown, N. J.
Andrews, E. & Sons, Williamsport, Pa.
Buckeye Saw Mfg. Co., Columbus, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Henry & Sons, Inc. (Circular, etc.), Tacony, Phila., Pa.
International Endless Chain Saw Co., 34 Universtiy pl, New York
Miner, J. H., Lumberton, Mass.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Tabor Mfg. Co. ("Taylor-Newbold"), 18th & Hamilton. Phila., Pa.
Tindel-Morris Co. **("Tindel" Patent for Metal),** Eddystone, Pa., & Ellwood City, Pa.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10022— Saws (Jewelers')

Griffin, G. W. Co., Franklin Falls, N. H.
Miller's Falls Co. ("Star"), 28 Warren, New York
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
West Haven Mfg. Co., West Haven, Conn.

## 10023— Saws (Jig)

Atkins, E. C. & Co., Indianapolis, Ind.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Edge, Frank & Co., Grand Rapids, Mich.
Luther Bros. Co., Milwaukee, Wis.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Royle, John & Sons (Inc.) (For Metal Mortising, etc.), Straight & Essex, Paterson, N. J.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 10024— Saws (Keyhole)

Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
S. & I. Co. ("S & I"), Springfield, Mass.

## 10025— Saws (Kitchen)

**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Bridgeport Hardware Mfg. Co. (Sanitary). Bridgeport, Conn.
Christy Knife Co., Fremont, O.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Goodell-Pratt Co., Greenfield. Mass.
Knickerbocker Mfg. Co., Belleville, N. J.
Miller's Falls Co. ("Star" Steel Frame), 28 Warren, New York
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
White, Ira F. & Son Co., Bloomfield, N. J.
White, L. & I. J. Co., Buffalo, N. Y.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10026—Saws (Metal Slitting)

**Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.**
Barber-Colman Co., Rockford, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Burroughs Tool Co. ("Burro"), 91 Murray, New York. Factory: Springfield, Mass.
Disston, Henry & Sons, Inc. Tacony, Phila., Pa.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**NATIONAL TOOL CO., Cleveland, O.** (See adv. index, end of book)
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Pratt & Whitney Co., Hartford, Conn.
Southern Saw Works, Atlanta, Ga.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Thurston Mfg. Co. (Jeweler's). Providence,
Union Twist Drill Co., Athol, Mass. R. I.

## 10027—Saws (Mitre Box)

Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Disston, Henry & Sons, Inc. Tacony, Phila., Pa.
National Saw Co., Newark, N. J.
Union Saw Co., Williamsport, Pa.
Wilson Saw & Mg. Co. ("Wilson"), Port Huron, Mich.

## 10028—Saws (Nail Cutting)

**Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.**

## 10029—Saws (Overhead Cut-Off)

Branch Saw Co., St. Louis, Mo.
Connor, J. W. & Son (Farmers, etc.), Orangeville, Pa.

## 10030— Saws (Piercing)

Dixon, Wm. (Inc.), 39 John, New York

## 10031— Saws (Plumbers')

**Atkins, E. C. & Co., Indianapolis, Ind.**
**BERNZ, OTTO, 21 Ashland av,** Newark, N. J. (See adv. index, end of book)
**BUFFUM TOOL CO. (Hand & Compass),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Disston, Henry & Sons, Inc. Tacony, Phila., Pa.
**National Saw Co., 15 River, Newark, N. J.**
**Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.**
S. & I. Co. ("S & I" Hack Saw Blades), Springfield, Mass.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

## 10032—Saws (Plumbers' Hollow Mill)

West Haven Mfg. Co., West Haven, Conn.

## 10033— Saws (Pruning)

Disston, Henry & Sons, Inc. Tacony, Phila., Pa.
Fruit Growers' Saw Co. ("Fruit Growers' Favorite"), Scottsville, N. Y.
Moore Bros., Jamestown, N. Y.
National Saw Co., Newark, N. J.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Union Saw Co., Williamsport, Pa.

## 10034—Saws (Rail & Shop)

(See also Shop Sawing Machines, Iron)
Atkins, E. C. & Co., Indianapolis, Ind.
**FAIRBANKS, MORSE & CO. (Portable),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Q. & C. Co. ("Q. & C." Portable Rail Saws), 90 West, New York

## 10035—Saws (Srew Slotting)

Disston, Henry & Sons, Inc. Tacony, Phila., Pa.
**SIMONDS MFG. CO. (Concave),** Fitchburg, Mass. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10036— Saws (Scroll)

(See also Scroll Sawing Machines)
**Atkins, E. C. & Co., Indianapolis, Ind.**
Disston, Henry & Sons (Inc.) ("Fays"), Tacony, Phila., Pa.
**Edge, Frank & Co., Grand Rapids, Mich. Pa.**
**Emerson, Smith & Co., Beaver Falls, Pa.**
Gerlach, Peter Co., Cleveland, O.
Hiles, C. A. & Co. ("Foys"), 14th & Western av, Chicago, Ill.
Millers Falls Co. ("Star", "Lester", "New Rogers", "Cricket"), 28 Warren, New York
**Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.**
**Oliver Machinery Co., Grand Rapids, Mich.**
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
Trump Bros. Machine Co., Wilmington, Del.

## 10037— Saws (Segment)

**Atkins, E. C. & Co., Indianapolis, Ind.**
Branch Saw Co., St. Louis, Mo.
**Disston, Henry & Sons (Inc.), (And Veneering), Tacony, Phila., Pa.**
**Hiles, C. A. & Co. ("Veneering, Re-Sawing, etc.), 14th & Western av, Chicago, Ill.**
National Saw Co., Newark, N. J.
**Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.**
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 10038—Saws (Shingle & Heading)

Atkins, E. C. & Co., Indianapolis, Ind.
Branch Saw Co., St. Louis, Mo.
Chattanooga Saw Works, Chattanooga, Tenn.
**Curtis & Co. Mfg. Co., St. Louis, Mo.**
Disston, Henry & Sons, Inc. Tacony, Phila., Pa.

## 10039—Saws (Stone Cutting)

American Saw Works, Hackettstown, N. J.
Anderson, Geo. & Co., 420 Ogden, Newark, N. J.
Fuller, Geo. L. (Circular), Utica, N. Y.
Rayden Marble Machinery Co. ("Royden" Inserted Carborundum Tooth), 1 Madison av, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 10040— Saws (Swing)

American Saw Mill Machinery Co., Hackettstown, N. J.
**American Woodworking Machinery Co., Rochester, N. Y.**
Atkins, E. C. & Co., Indianapolis, Ind.
**Atlas Machine Co., Nashville, Tenn.**
Badger State Machine Co. (Improved Cut-Off), Janesville, Wis.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
**Bentel & Margedant Co., Hamilton, O.**
Berlin Machine Works, Beloit, Wis.
Branch Saw Co., St. Louis, Mo.
Chandler & Taylor Co., Indianapolis, Ind.
**Chase Turbine Mfg. Co. (Cut-Off), Orange, Mass.**
Colloday, Jos. O., 626 Race, Phila., Pa.
**Connell & Dengler Machine Co., Rochester, N. Y.**
**Cordesman, Meyer & Co., Cincinnati, O.**
Cordesman, Rechtin Co., Cincinnati, O.
Crescent Machine Co., Leetonia, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
**Diamond Iron Works, Minneapolis, Minn.**
Dodds, Alexander, Grand Rapids, Mich.
Farquhar, A. B. Co. (Cut-Off), York, Pa.
Filer & Stowell Co., Milwaukee, Wis.
Fischer Machine Works (6-foot Swing), 1845 Carroll av, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Greaves, Klusman & Co., Cincinnati, O.
Hill, W. E. & Co. (Iron Frame), Kalamazoo, Mich.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Mach'y Co., Buffalo, N. Y.
**Howell, R. R. & Co., Minneapolis, Minn.**
Huntsville Foundry & Machine Works, Nolan & Jones (Prop's), Huntsville, Ala.
International Endless Chain Saw Co., 34 University pl, New York
Knight Mfg. Co., Canton, O.

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Lane Mfg. Co., Montpelier, Vt.
Luther, B. G. & Co., Worcester, Mass.
Murray, D. J. Mfg. Co., Wausau, Wis.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oliver Machinery Co., Grand Rapids, Mich.
Porter, C. O. Machinery Co., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Root, B. M. Co., York, Pa.
Seymour & Whitlock, Newark, N. J.
Sidney Tool Co. ("Defiance"), Sidney, O.
Silver Mfg. Co., Salem, O.
Smith, H. B. Machine Co. (Swing Cut-Off), Smithville, N. J.
Southern Engine & Boiler Works, Jackson, Tenn.
Standard Saw Mill Machinery Co., Erie, Pa.
Strait, H. N. Mfg. Co. (For Cooperage, etc.), Kansas City, Kan.
Union Iron Works, Bangor, Me.
U. S. Machine Co. (Iron Frame), Williamsport, Pa.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Wheland Machine Works, Chattanooga, Tenn.
White, John A. Co., Dover, N. H.
Wickes Bros., Saginaw, Mich.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

## 10041—Saws (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg, Pittsburg, Pa. (See adv. index, end of book)

## 10042— Saws (Whip)

Sidney Tool Co., Sidney, O.

## Saws (Wood)

(See Wood Sawing Machines)

## 10043— Scaffold Builders

American Ladder Co. (Painters', Paper Hangers', etc.), 1315 W 21st pl, Chicago, Ill.
Brown, J. K. & Co., 181 3d av, Brooklyn, N. Y.
Chesebro, Whitman Co., 1167 1st av, NewYork
International Steel & Iron Construction Co. (Steel Scaffolding), Evansville, Ind.
Portland Extension Ladder Co. ("Excelsior" Folding Extension Trestle or Scaffold Horse), 130 Orange, Newark, N. J.

## 10043a—Scaffolds (Ladder Elevator)

**TAYLOR, JAS. L. MFG. CO. (For** Stucco & Cement Workers, Painters, etc.), Poughkeepsie, N. Y. (See adv. index, end of book)

## Scagliola Work

(See Marble, Artificial)

## 10044— Scalers (Fish)

Chatillon, Jno. & Sons, 85 Cliff, New York
Covert's Saddlery Works, Interlaken, N. Y.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Landers, Frary & Clark, New Britain, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Reading Hardware Co., Reading, Pa.
Royal Mfg. Co., 406 Commerce, Phila., Pa.
Southington Hardware Co., Southington, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.
Shimer, Wm. Son & Co., Freemansburg, Pa.

## Scales (Armor Plate)

(See Scales, Rolling Mill)

## 10045—Scales (Automatic)

Avery Scale Co., North Milwaukee, Wis.
Bond Scale Co., Los Angeles, Cal.
Edtbauer, E., 219 S Clinton, Chicago, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Henrichson Scale Co., Cincinnati, O.
Hoepner Automatic Scale Co., 120 S Sangamon, Chicago, Ill.
Hunt, C. W. Co. (Railway), West New Brighton, S. I., N. Y.
National Automatic Scale Co. (For Weighing Grain, etc.), Bloomington, Ill.
National Scale Co., Chicopee Falls, Mass.
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Winters-Coleman Scale Co. (Automatic Fixed Charge), Springfield, O.

## 10046—Scales (Balance)

Torsion Balance Co. ("Torsion"), 92 Reade, New York

## 10047— Scales (Beam)

Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.,
Columbia Steel Lever Scale Co., 29 W Randolph, Chicago, Ill.
Fairbanks Co., 186 Lafayette, New York
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Forschner, Chas. & Sons, 230 3d av, New York
Gaston's, N. B. Sons Co., Beloit, Wis.
National Scale Co., Chicopee Falls, Mass.
Osgood Scale Co., Binghamton, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co. (Recording Beam), 243 Water, Pittsburg, Pa.
Sargent & Co., New Haven, Conn., & 94 Center, New York

## 10048—Scales (Boiler Room)

(See also Scales, Suspended for Boiler Rooms)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

## 10049— Scales (Cattle)

(See Scales, Stock)

## Scales (Cement Testing)

(See Testing Machines, Cement)

## 10050—Scales (Charging)

**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

## 10051— Scales (Coal)

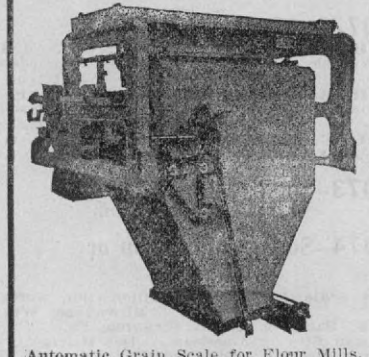
(See Scales, Platform & Wagon)

## 10052—Scales (Coal, Automatic)

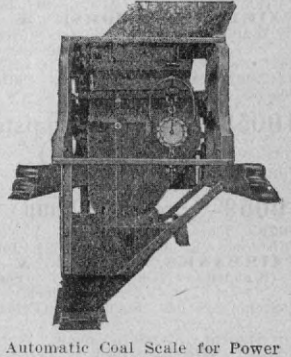
Avery Scale Co. (Automatic Recording), North Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

## 10053—Scales (Coal, Traveling)

Avery Scale Co. ("Avery," Automatic Checking Feed to Boilers), North Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)



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Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.

## 10054—Scales (Computing)

Anderson Computing Scale Co., Anderson, Ind.
Anderson Tool Co. ("Anderson"), Anderson, Ind.
Angildile Scale Co., Elkhart, Ind.
Computing Scale Co., Dayton, O.
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kansas City Scale & Supply Co., Kansas City, Mo.
Lancaster Scale Co., Elizabethtown, Pa.
National Scale Co., Chicopee Falls, Mass.
Standard Computing Scale Co., Detroit, Mich.
Stimpson, W. F. Co., Detroit, Mich.
Strubler Computing Scale Co., Elkhart, Ind.
Toledo Computing Scale Co., Toledo, O.
Triner Scale Mfg. Co., 1255 W 21st, Chicago.

## 10055— Scales (Counter)

American Cutlery Co., 732 Mather, Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chatillon, Jno. & Sons, 85 Cliff, New York
Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.
Computing Scale Co., Dayton, O.
Dodge Scale Co., Yonkers, N. Y.
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Forschner, Chas. & Sons, 230 3d av, New York
Hanson Bros., 427 W Randolph, Chicago, Ill.
Howe Scale Co., Rutland, Vt.
Jones of Binghamton, Binghamton, N. Y.
Knowles Scale Works, Lowell, Mass.
Landers, Frary & Clark ("Turnbull's" Spring) New Britain, Conn.
National Scale Co., Chicopee Falls, Mass.
Osgood Scale Co., Binghamton, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Pelouze Scale & Mfg. Co., 232 E Ohio, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Spencer's, I. S. Sons, Guilford, Conn.
Standard Computing Scale Co., Detroit, Mich.
Standard Scale & Supply Co., Pittsburg, Pa.
Toledo Computing Scale Co., Toledo, O.
Torsion Balance Co. ("Torsion"), 92 Reade, New York
Triner Scale & Mfg. Co., 1225 W 21st, Chicago, Ill.
Troemner, Henry, 911 Arch, Phila., Pa.
Troy Scale Co., Troy, N. Y.
Trowbridge, J. S. Co., 94 Blackstone, Boston, Mass.
Weeks Scale Works, Buffalo, N. Y.

## 10055a—Scales (Crane or Suspended)

(See Scales, Suspended, for Boiler Rooms; also Suspended or Crane Weighing Machines)

## 10056— Scales (Dairy)

Gaston's, N. B. Sons Co., Beloit, Wis.
Osgood Scale Co., Binghamton, N. Y.

## 10057— Scales (Dormant)

Beckman Bros ("American"), Des Moines, Ia.
Buffalo Scale Co., Buffalo, N. Y.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gaston's, N. B. Sons Co., Beloit, Wis.
National Scale Co., Chicopee Falls, Mass.
Osgood Scale Co., Binghamton, N. Y.

## 10058—Scales (Druggists' & Chemists')

Torsion Balance Co. ("Torsion"), 92 Reade, New York

## 10059— Scales (Dump)

Buffalo Scale Co., Buffalo, N. Y.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index branch offices, end of book)
Gaston's, N. B. Sons Co. (Folding), Beloit, Wis.
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Osgood Scale Co., Binghamton, N. Y.
Standard Scale & Supply Co., Pittsburg, Pa.

## 10060— Scales (Elevator)

National Automatic Scale Co. ("Automatic" for Grain, etc.), Bloomington, Ill.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

## 10060a— Scales (Factory)

**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

## 10061— Scales (Family)

American Cutlery Co. (Steel & White Tile Top), 764 Mather, Chicago, Ill.
Forschner, Chas. & Sons (Circular, Standard, etc.), 206 E 19th, New York
Gaston's, N. B. Sons Co. (Grain Hopper), Beloit, Wis.
Hanson Bros., 427 W Randolph, Chicago, Ill.
Landers, Frary & Clark ("Columbia," "Landers"), New Britain, Conn.
Osgood Scale Co., Binghamton, N. Y.
Pelouze Scale & Mfg. Co., 232 E Ohio, Chicago, Ill.
Spencer's I. S. Sons, Guilford, Conn.
Standard Scale & Supply Co., Pittsburg, Pa.
Triner Scale & Mfg. Co., 21st & Fairfield av, Chicago, Ill.

## 10062— Scales (Fluid)

**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)

## 10063—Scales for Balancing Planer Saws

Munson Co., Grand Rapids, Mich.

## 10064—Scales for Drawing

Brown & Sharpe Mfg. Co., Providence, R. I.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg,** Pa. (See adv. index, end of book)
**ENGINEERING AGENCY,** Monadnock blk, Chicago, Ill. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams,** Chicago, Ill. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin av, Chicago,** Ill. (See adv. index, end of book)
**SOLTMANN, E. G.** (Also Everything for the Architect. Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10065—Scales (Grain Testing)

Buda Co., Railway Exch bldg, Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 1021 Jackson blvd, Chicago, Ill.
Cincinnati Scale & Mfg. Co., Cincinnati, O.
Dutton, J. B. ("Dutton," Automatic), Detroit, Mich.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Howe Scale Co., Rutland, Vt.
Jones, of Binghamton, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
Pratt & Whitney Co., Hartford, Conn.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Torsion Balance Co. ("Torsion"), 92 Reade, New York

## 10066— Scales (Hopper)

Avery Scale Co. ("Avery" Non-Automatic Steel-Yard, etc.), North Milwaukee, Wis.
Brunner Foundry & Machine Co., Peru, Ill.
Buda Co., Railway Exch bldg, Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.
Cincinnati Scale Mfg. Co., 212 Walnut, Cincinnati, O.
Dayton Pitless Scale Co. ("Boulton's Improved Pitless"), Dayton, O.
Fairbanks Co., 186 Lafayette, New York
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gaston's, N. B. Sons Co., Beloit, Wis.
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt.
Hunt, C. W. Co. (Stationary & Movable), West New Brighton, S. I., N. Y.
Kansas City Hay Press Co., Kansas City, Mo.
**MEAD-MORRISON MFG. CO., Cambridge,** Boston, Mass. (See adv. index & branch offices, end of book)
Osgood Scale Co., Binghamton, N. Y.
Pelouze Scale & Mfg. Co., 232 E Ohio, Chicago,
Queen City Scale Co., Cincinnati, O. Ill.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Strait Scale Co., Kansas City, Mo.
Wolff, Fred, Kansas City, Mo.

## 10066a—Scales (Hydrostatic)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 10067— Scales (Industrial)

**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)

## 10068— Scales (Jockey)

Fairbanks Co., 186 Fafayette, New York
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10069—Scales (Liquid & Oil Weighing)

Avery Scale Co. ("Avery" Automatic), North Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
**SCHULE, F. H. CO., (Automatic)** 114-118 Liberty, New York. (See adv. index, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.

## 10070—Scales (Locomotive)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10071—Scales (Miners' & Transportation)

Buffalo Scale Co., Buffalo, N. Y.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
Osgood Scale Co., Binghamton, N. Y.

## 10072— Scales (Oil)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
**SCHULE, F. H. CO., 114 Liberty,** New New York. (See adv. index, end of book)

## 10073—Scales (Pig Iron, Etc.)

(See Scales, Rolling Mill)

## 10074—Scales (Platform or Wagon)

Avery Scale Co. ("Avery" Automatic), North Milwaukee, Wis.
Barker, Sam'l G. & Son, Scranton, Pa.
Beckman Bros. ("American"), Des Moines, Ia.
Brunner Foundry & Machine Co., Peru, Ill.
Buda Co., Railway Exch bldg, Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.

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Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.
Cincinnati Scale Mfg. Co., Cincinnati, O.
Columbia Steel Lever Scale Co., 440 W Randolph, Chicago, Ill.
Dayton Pitless Scale Co. ("Boulton's" Pitless Scale & Folding Stock Rack), Dayton, O.
Fairbanks Co., 186 Lafayette, New York
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairwright Standard Scale Co. (Pitless), Danville, Ill.
Forschner, Chas. & Sons (Platform Only), 230 3rd av, New York
Gaston's, N. B. Sons Co., Beloit, Wis.
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Grand Rapids Scale Works, Grand Rapids, Mich.
Howe Scale Co., Rutland, Vt.
Hunt, C. W. Co. (For Railways & Boiler Rooms), West New Brighton, S. I., N. Y.
Jones of Binghamton, Binghamton, N. Y.
Kansas City Hay Press Co., Kansas City, Mo.
Kimball Bros. Co., Council Bluffs, Iowa.
McDonald Bros. (Pitless Wagon & Stock), Pleasant Hill, Mo.
Meyer Scale & Hdwe. Co., Newark, N. J.
Moline Scale Co. ("Victor," "Monarch," "Moline"), East Moline, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Osgood Scale Co., Binghamton, N. Y.
**RICHARDSON SCALE CO. (Automatic), 3 Park row, New York, New York.** (See adv. index & branch offices, end of book)
**SCHULE, F. H. CO., 114-118 Liberty,** New York. (See adv. index, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Stimpson Scale & Mfg. Co. (Wagons, Portable Platform), Northville, Mich.
Strait Scale Co., Kansas City, Mo.
**WALSH'S SONS & CO., Harrison, N. J.** (See adv. index, end of book)
Weeks Scale Works, 373 7th, Buffalo, N. Y.
Zimmerman Steel Co., Lone Tree, Ia.

## 10075—Scales (Platform, Portable)

Chatillion, John & Sons, 85 Cliff, New York
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gaston's, N. B. Sons Co., Beloit, Wis.
Osgood Scale Co., Binghamton, N. Y.
Zering, H. Mfg. Co., Cincinnati, O.

## 10076— Scales (Postal)

Atwater, S. I., 335 B'way, New York
Buffalo Scale Co., Buffalo, N. Y.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Forschner, Chas. & Sons, 230 3rd av, New York
Osgood Scale Co., Binghamton, N. Y.
Pelouze Scale & Mfg. Co., 232 E Ohio, Chicago, Ill.
Standard Scale & Supply Co., Pittsburg, Pa.
Tatum, Samuel C. Co. (Also Bank & Household, Cincinnati, O.
Triner Scale & Mfg. Co., 1255 W 21st, Chicago, Ill.
Weis Mfg. Co. ("Weis"), Monroe, Mich.

## 10077—Scales (Railroad Track)

(See Scales, Track)

## 10078—Scales (Revolving)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book
Sawyer, W. H. & Sons, Americus, Ga.
Standard Scale & Supply Co., Pittsburg, Pa.

## 10079—Scales (Rolling Mill)

Avery Scale Co., North Milwaukee, Wis.
Buffalo Scale Co., Buffalo, N. Y.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index branch offices, end of book)
Gaston's, N. B. Sons Co., Beloit, Wis.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.

## 10080— Scales (Spring)

Chatillion, Jno. & Sons, 85 Cliff, New York
Henrichson Scale Co., Cincinnati, O.
Hanson Bros., 427 W Randolph, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
National Scale Co., Chicopee Falls, Mass.
Sargent & Co., New Haven, Conn.
Wilson, Robert P., Newark, N. J.

## 10081— Scales (Stock)

Beckman Bros. ("American"), Des Moines, Ia.
Brunner Foundry & Machine Co. ("Acme"), Buffalo Scale Co., Buffalo, N. Y. Peru, Ill.
Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.
Dayton Pitless Scale Co. ("Boulton's Improved Pitless"), Dayton, Ohio
Fairbanks Co., 186 Lafayette, New York
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gaston's, N. B. Sons Co., Beloit, Wis.
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt.
Jones of Binghamton, Binghamton, N. Y.
Kansas City Hay Press Co. ("Lightning" Pitless), Kansas City, Mo.
Kimball Bros. Co. ("Columbia"), Council Bluffs, Iowa
McDonald Bros. ("Economy"), Pleasant Hill, Mo.
North American Scale Co., Boston, Mass.
Osgood Scale Co. ("Challenge," "Hercules," "Triumph"), Binghamton, N. Y.
Queen City Scale Co. (Repair), Cincinnati, O.
Standard Scale & Supply Co., Pittsburg, Pa.
Standard Scale & Mfg. Co., Northville, Mich.
Strait Scale Co., Kansas City, Mo.
Zimmerman Steel Co. ("Royal"), Lone Tree, Iowa

## 10082—Scales (Suspended, for Boiler Rooms)

Avery Scale Co., North Milwaukee, Wis.
Buffalo Scale Co., Buffalo, N. Y.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
Hunt, C. W. Co., West New Brighton, S. I., Osgood Scale Co., Binghamton, N. Y. N. Y.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.

## 10083— Scales (Talking)

United Vending Co., Cleveland, O.

## 10083a— Scales (Testing)

Torsion Balance Co. ("Torsion," Cream, Cement, Butter, Sand, etc.), 92 Reade, New York

## 10084—Scales (Thermometer & Barometer)

Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.

## 10085— Scales (Tipple)

Avery Scale Co., North Milwaukee, Wis.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Government Standard Scale Works (M. H. Winslow, Prop.) (Mine Pan), Terra Haute, Ind.
Niles Mine & Mill Supply Co., Williamson bldg, Cleveland, O., & Niles, O.
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa

## 10086— Scales (Track)

Avery Scale Co. ("Avery" Automatic), North Milwaukee, Wis.
Barker, S. G. & Son, Scranton, Pa.
Beckman Bros. ("American"), Des Moines, Ia.
Brunner Foundry & Machine Co., Peru, Ill.
Buda Co., Railway Exch bldg., Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.
Cincinnati Scale Mfg. Co., Cincinnati, O.
Fairbanks Co., 186 Lafayette, New York.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Jones of Binghamton, Binghamton, N. Y.
**MEAD-MORISON MFG. CO., Cambridge** Mass. (See adv. index & branch offices, end of book)
**RICHARDSON SCALE CO., 3 Park** row, New York. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.
Strait Scale Co., Kansas City, Mo.
Tannewitz, Edward, Grand Rapids, Mich.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 10087—Scales (Trolley Track)

Buffalo Scale Co., Buffalo, N. Y.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Fairbanks, E. & T. & Co., St. Johnsbury, Vt.
Osgood Scale Co., Binghamton, N. Y.

## 10088—Scalpers (Corn Mill)

Nordyke & Marmon Co. (Round Reel & Hexagon), Indianapolis, Ind.

## 10089—Scalpers (Sieve)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 10090— Scarifiers

Denver Fire Clay Co., Denver, Colo.
Heil, Henry Chemical Co., St. Louis, Mo.

## 10091— Scenic Artists

Lash, Lee Studios, 142 W 39th, New York
Sosman & Landis Co., 417 S Clinton, Chicago, Ill.
Story, O. L. Scenic Co. (Inc.), 21 Tufts, Somerville, Mass.

## Scissor Mfrs.

(See Shears & Scissors)

## 10092—Scissors (Fluting)

Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.

## 10093—Scissors (Poultry)

Thurnauer, G. M. & Bro., 83 Worth, New York

## 10094—Scissors (Sardine)

Johnson, Wm. (Hedenberg Works), Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co. ("Fetter's"), Harrison, N. J.

## 10095— Scleroscopes

Scientific Materials Co., Pittsburg, Pa.
**SHORE INSTRUMENT & MFG. CO., 557 W 22d,** New York. (See adv. index & branch offices, end of book)

## 10096— Scoops (Cheese)

American Cutlery Co., 764 Mather, Chicago, Ill.

## 10097— Scoops (Coal)

(See also Shovel & Spade Manufacturers)

Avery Stamping Co., Cleveland, O.
Beall Bros. (Inc.), Alton, Ill.
Central Stamping Co., 174 Fulton, New York
Chisholm Steel Shovel Works (Solid Cast Steel) Cleveland O.
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charlerol, Pa.
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Mount Pleasant Tool Co., Mount Pleasant, Pa.

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National Enameling & Stamping Co., 374 B'way, New York
**Ohio Shovel & Stamping Co., Canal Dover, O.**
Owensboro Shovel & Tool Co., Owensboro, Ky.
Pfiefer, Jno. & Co., 224 Race, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Stoutenborough, X., 277 Pearl, New York
**Union Furnace Co., Union Furnace, Pa.**
Wood Shovel & Tool Co., Piqua, O.

## 10098—Scoops (Furnace)

**Beall Bros. (Inc.), Alton, Ill.**
**Chisholm Steel Shovel Works (Solid Cast Steel) Cleveland O.**
Hussey-Binns Shovel Co. (Cast Steel), Pittsburg, Pa. Works: Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
**Jackson Shovel & Tool Co., Montpelier, Ind.**
Kohler, F. E. & Co., Canton, O.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
**Ohio Shovel & Stamping Co., Canal Dover, O.**
Owensboro Shovel & Tool Co., Owensboro, Ky.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Pfeifer, Jno. & Co., 224 Race, Phila, Pa.
**Union Furnace Co., Union Furnace, Pa.**

## 10099— Scoops (Grain)

**American Shovel & Stamping Co., Lorain, O.**
**Beall Bros. (Inc.), Alton, Ill.**
**Chisholm Steel Shovel Works, Cleveland, O.**
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Pa.
Jackson Shovel & Tool Co. ("Ripley"), Montpelier, Ind.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
**Ohio Shovel & Stamping Co., Canal Dover, O.**
**Owensboro Shovel & Tool Co., Owensboro, Ky.**
Pfeifer, Jno. & Co.,224 Race, Phila., Pa.
Phila. Scoop Co., 134 N 2d, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)
Union Furnace Co., Union Furnace, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Wood Shovel & Tool Co., Piqua, O.

## 10101— Scoops (Ice)

Aldrich Mfg. Co., Buffalo, N. Y.
New York Stamping Co., N 11th & Berry, Brooklyn, N. Y.

## 10102—Scoops (Potato, Corn, Etc.)

Hubbard & Co., Pittsburg, Pa.
Mount Pleasant Tool Co. (Malleable Iron) Mount Pleasant, Pa.
Pease, F. B. Co., Rochester, N. Y.

## 10103— Scoops (Scale)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Freeman Mfg. Co. (Wooden), Kalkaska, Mich.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
McMorran, Edw. E. & Co., 162 N Clinton, Chicago, Ill.
National Enameling & Stamping Co., 374 B'way, New York
**National Scale Co., Chicopee Falls, Mass.**
Philadelphia Scoop Co., 134 N. 2d, Philadelphia, Pa.

## 10104— Scoopers (Tunneling)

Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

## 10104a—Scourers (Wheat & Buckwheat)

**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

## 10105— Scow Builders

Howard Ship Yards Co. (Scow & Barge), Jeffersonville, Ind.
Manitowoc Dry Dock Co. (Steel, Dump, Derrick, etc.), Manitowoc, Wis.
Perth Amboy Dry Dock Co. (Brick & Freight), Perth Amboy, N. J

## 10106—Scows (Fueling)

**BARTLETT, E. O. & SNOW CO. (For** Fueling Vessels), French st, Cleveland, O. (See adv. index & branch offices, end of book)

## 10107— Scrap Bars

Brooke, E. & G. Iron Co., Birdsboro, Pa.

## 10108— Scrap Brass

(See also Scrap Iron & Steel)

Atlas Smelting & Refining Co., 1012 Germantown av. Reading, Pa.
Beach, J. W. Co. (Copper Only), Bridgeport, Conn.
Bers, E. & Co., 22 S Del av, Phila., Pa.
Culbert, John C., Pawtucket, R. I.
Dolgoff, Jas. L., Bridgeport, Conn.
Duquesne Reduction Co., Pittsburg, Pa.
Eagle Smelting & Refining Works, 734 E 14th, New York
Fort Wayne Smelting & Refining Works, Fort Wayne, Ind.
Goldberg & Rathman, 289 Commercial, Boston, Mass.
Giacomo, San Sons, 9 Abel, Newark, N. J.
Grimm, Paul, 309 Water, New York
Gruenebaum, L., 418 E 7th, Cincinnati, O.
Hofeller, Theo. & Co., Buffalo, N. Y.
Illinois Smelting & Refining Co., 410 N Peoria, Chicago, Ill.
Jacob Bros., Bridgeport, Conn.
Kahn Bros., 517 E 19th, New York
Lehman Bros., Hoboken, N. J.
Lake Erie Smelting & Refining Co., Cleveland, Ohio
London, N., 31 Peck sl, New York
Moers, Albert A., 412 Grand, Jersey City, N. J.
Moore, C. W., 39 E Washington, Bridgeport, Conn.
Peerless Smelting & Refining Co., Phila., Pa.
Roth, Jacob (Brass & Copper), Detroit, Mich.
Schnair, Jacob, 138 Beekman, New York
Shonberg, I., 63 Hudson av, Brooklyn, N. Y.
Smith, Morton B. Co., 243 Front, New York
WALSH'S SONS & CO., Harrison, N. J. (See adv. index, end of book)

## 10109— Scrap (Copper)

Beach, J. W. Co., Bridgeport, Conn.
Smith, Morton B. Co., 243 Front, New York

## 10110—Scrap Iron & Steel

(See also Special List of Scrap Brass)

(This list is published for Purchasing Purposes and comprises only the Largest firms who make a specialty of Scrap Iron & Steel)

### ALABAMA.

BIRMINGHAM—Weller & Co.

### CALIFORNIA.

SAN FRANCISCO—Burnstine Bros. Co., 534
Harley, Chas. Co., 844 Harrison
Brannan

### COLORADO.

DENVER—Denver Metal Co.

### CONNECTICUT.

BRIDGEPORT—Jacob Bros.
NEW HAVEN—Alpert, M. & Son
WATERBURY—Waterbury Scrap Iron Co.

### DELAWARE.

WILMINGTON—Stirlith Bros.

### GEORGIA.

ALBANY—Mayer, Daniel

### ILLINOIS.

AURORA—Annenberg, J. D. & Co.
CHICAGO—American Iron & Supply Co., 164 Dearborn
Birkenstein, S. & Sons, 377 W Ontario
Blonder Bros., 965 W Chicago av
Bregman, L. I. & Co., 164 Dearborn
Buda Co., Railway Exch bldg,
Cohen, D. R. & F. A., 77 Jackson blvd
Grossman Rag & Metal Co., 1338 S Canal
Illinois Iron & Metal Co., 632 W Taylor
Imperial Iron & Steel Co., 164 Dearborn
Joseph, Isaac Iron Co., Monadnock blk
Kaufman, M., 347 N Sheldon
Lanski Bros., 20th & Morgan
Levine, A. & Co., 1461 S State
Lieberman, Jos. L. Iron Co., Monadnock blk
Loewenthal Co., 20th & Sangamon
Marks, H. & Son, 1045 W 14th pl
Morris, S. & Co., 1101 Canal
Ohio Iron & Metal Co., First Natl. Bank bldg
Stern, Harris, 3258 Douglass bldg
Twomey, W. T. & Co., Rookery bldg
U. S. Metal & Mfg. Co., Railway Exch
Weinstein, Wm., 315 Dearborn
Williams, Jacob, 3537 Grand bl
DANVILLE—Cohen, D.
PEORIA—Cohen, J. & Son
QUINCY—Rupp, Geo. & Bros. Co.
ROCK ISLAND—Morris & Lewis
Sosna, M. & Co.
SPRINGFIELD—Barker, A.
STREATOR—Tierney Bros.

### INDIANA.

EDINBURG—Kroot, Jos.
EVANSVILLE—Fligeltaub, Henry
MUNCIE—Feinberg, A.
TERRE HAUTE—Bogard, Albert

### IOWA.

DES MOINES—Cohen Bros. Iron & Metal Co.
Cohen, E. M. & Son

### KENTUCKY.

LOUISVILLE—Weber, Simon & Son

### LOUISIANA.

NEW ORLEANS—Doran, Wm.
Marx, Alphonse & Son

### MARYLAND.

BALTIMORE—Baltimore Iron & Metal Co., 1620 Gough
Bowman, Wm., 1325 Eastern av
Chesapeake Metal & Iron Co., 1025 S
Clifford, C. Eutaw
De Ved & Sons Sash Weight Co.
Frank, Nathan & Sons
Frederick Iron & Metal Co.
Globe Iron & Metal Co.
Monumental Iron & Metal Co., 228 W Pratt
National Iron Co., 744 W Pratt
Wehr, Frederick & Co., Pratt & President
Winternitz, Hiram & Co., 221 S Howard
Woolford & Thomas, 914 S B'way

### MASSACHUSETTS.

BOSTON—Andler, M. M. & Co.
Clapp, C. E.
Covich, Barney
Doane, G. B. & Son, 18 Midway, S. B.
Houdlette, Fred. A. & Son, 93 Broad
Perry, Wm. H. Co., 49 Stillings
Stewart, Jas. & Co., 240 A. S. B.
CAMBRIDGE—Fine, Chas. E. C.
Sovrensky, L.
CHELSEA—Cutler & Spack
Rosenberg Bros.
FALL RIVER—Dunn, Wm. J.
Ratner, M.
Shapiro & Ratner
LOWELL—Harris, A. J. & Co.
NEW BEDFORD—Fox, Max
McCollough, John
NORTHAMPTON—Carlson & Barger
SPRINGFIELD—Ehrlich, A. B. & Co.
WORCESTER—Buxton, E. & Son Co.

### MICHIGAN.

BAY CITY—Helper Bros.
Hirschfield, H. & Co.
DETROIT—Ginsburg, R. L. Sons Co., 542 Franklin
Goldman, A. & Co., 2580 W Jefferson av
Riverside Scrap Iron & Metal Co.
IRONWOOD—Michigan Scrap Iron Co.
LANSING—Simon, Abram Iron Co.
SAGINAW—Clinkofstine, Layne S. & Son
THREE RIVERS—Three Rivers Iron & Metal Co.

### MINNESOTA.

DULUTH—Duluth Iron & Metal Co.

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## MISSOURI.

ST. LOUIS—Bierman, F. & Son
Greenspon, J. & Son
Hirsch Rolling Mill Co.
Werthan & Co., ft. Dorcas

## NEBRASKA.

OMAHA—Harding, L. & Sons

## NEW JERSEY.

BAYONNE—Bayonne Scrap Iron & Metal Co.
HARRISON — **WALSH'S SONS & CO.** (See adv. index, end of book)
HOBOKEN—Lehman Bros.
JERSEY CITY—Contey, Frank Co., 430 Montgomery
Contey, Frank M., 317 Grand
Contey, Patrick, 378 1st
Eagle Scrap Iron Co., 204 14th
Letcher, R. J. & Son, 191 Morgan
Leveson, S., 464 Grand
NEWARK—Abramson, A.
**Clark, J. J. Co.**
**Friedman, Chas.**
**Gesumaria, M.**
**Harrington & Natterer Co.**
**Hirsch, J.**
**Hirsch, Samuel**
**Leonardis, Peter & Sons**
**Liebstein, J. & Sons**
**Newark Metal Co.**
Sangiacomo's Sons
**Serratelli, P. Son & Co.**
**Smith, Newton**
PATERSON—Friedman, H.
Lapat, L.
Sinn, Fred'k
Stamm, Max
PERTH AMBOY—Gregory, Jno. H.
PHILLIPSBURG—Gibney Iron & Steel Co.
Vetter, Casper & Son
PLAINFIELD—Haskard, John S.
TRENTON—Millner, Frank, Inc.

## NEW YORK.

ALBANY—Albany Waste & Metal Co.
BUFFALO—Benjamin Iron & Steel Co., D. S. Morgan
Buffalo House Wrecking & Salvage Co.
Buffalo Waste Paper Co.
Hazard, Coates & Bennett Co.
Lenahan, Frank & Son
Lichtenstein, M. & Son, 350 Clinton
Michel, Louis, 29 Wash'n
Morrison & Risman
Sukernek, Louis
Trimble, Mudge & Co.
Ullman, D. Sons
Ullman, Jacob, 44 Lloyd
NEWBURGH—Hart, Patrick

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Blume, H. & Son, 536 Myrtle av
Herschoff & Barnhard, 362 Willoughby av
Samuels, M. & Sons, N 2d
Smith, Thos. & Son, 410 Third av
Watson, Andw., 44 Withers

### Boroughs of Manhattan & Bronx.

NEW YORK CITY—Bassman & Oislander, 156 Maiden, La.
Bers, E. & Co., 8 Desbrosses
Blake, M. J. & M., 79 10th av
Continental Iron & Steel Co., 2 Rector
Danvers, R. E., 428 E 18th
Goldschmidt Detinning Co. (Scrap Steel Only), 60 Wall. Factories: Chrome, N. J., & Wyandotte, Mich.
Imperial Metal Mfg. Co., 420 E 106th
**LEAVITT, C. W. & CO., 34 Church.** (See adv. index, end of book)
Leonard, Jno. & Co., 149 B'way
Loewenthal Co., 481 Washington
London, N., 31 Peck Slip
Lowy, D. & Co., 68 10th av
Metropolitan Iron & Steel Co., 560 W 26th
Ofstein & Cohen Metal Co., 441 W 17th
Oppenheimer, J. & Co., 81 Fulton
Rubber Waste Co., 1724 Park av
Rubber & Metal Supply Co., 157 South
Salamone & Mottola, 420 E 108th
Schnair, Jacob, 138 Beekman
Seymour, Chas. F., 72 10th av
Smith, Morton B. Co., 243 Front
U. S. Metal & Mfg. Co., 165 B'way
Vulcan Detinning Co. (Steel Scrap Only), 114 Liberty
Weissberger & Moser, 270 W 133rd

### Borough of Queens.

LONG ISLAND CITY—Daly, Jno. J.

### (End of New York City)

OLEAN—Bock, Meyer
ROCHESTER—Allen, Joseph W.
Cohen, J. & Son, Rochester, N. Y.
Hazard, Coates & BennettCo.
Monroe Iron & Metal Co.
TROY—Security Steel & Iron Co.
UTICA—Baxter, T. W. Co.

## NORTH CAROLINA.

CHARLOTTE—Yarbrough & Bellinger Co.

## OHIO.

AKRON—American Scrap Iron Co. (Rails, Beams, etc.)
CANTON—Canton Iron & Metal Co.
CINCINNATI—Block Pollak Iron Co., Carthage
Fettig, Jos., 1910 Plum & Steelton
General Supply, Iron, Steel & Rail Co.
Goldberger, Jos. Iron Co.
Hilb & Bauer, 233 Mill
Hils, E. L.
Joseph, Isaac Iron Co., 525 Hunt
Joseph, Joseph & Bros, Co.
Klein & Cohn, 830 Wade
Watelsky, Sive & Co.
CLEVELAND—Cohen, M. & Son Co., 1238-1256
Cohn, Kraus & Co. E 55th, N E
Fishbein & Gross, 411-413 Hill av, S E
Fishel & Marks, 3018 E 55th, S E
Grodin Bros.
Hathaway, A. G. & Co., Cuyahoga bldg
Hirsch, Wm. D. & Co.
Koblitz-Kohn & Co., 1519 B'way, S E
McCarthy, W. B., Rose bldg
Merwin Iron & Metal Co., 1722 Merwin,
Schonthal, Jos., Iron Co. N W
Schwarzenberg, E. A., Garfield bldg
Shaw, A., 2687 E 40th, S E
Silberman, Morris, Rear 2688 E 23d, S E
Straus, D. M. Co.
Wilkofsky, S. & Co., 2581 E 43rd
COLUMBUS—Kilbourne, A. W.
DAYTON—Israel Bros. Iron & Metal Co.
NORWALK—Morrison Iron Co.
SPRINGFIELD—Landau & Schaedel
TOLEDO—Gerson, I. & Sons
YOUNGSTOWN—Wilkoff Bros. Co.

## PENNSYLVANIA.

ALLENTOWN—Sofranscy, H. Co.
ALTOONA—Abelson, A.
COATESVILLE—Gerson, Samuel & Co.
ERIE—Erie Iron & Steel Co.
HARRISBURG—Harrisburg Iron & Steel Co.
Michlovitz & Co.
JOHNSTOWN—Cambria Junk Co.
LANCASTER—Hahn, J. F.
LEBANON—Brenner, L. & Co.
Caplan, J. & Co.
Central Iron & Coal Co.
Donaghmore Iron & Steel Co.
McKEES ROCKS—Keystone Iron & Metal Co.
MIDDLETOWN—Silberman Bros.
NEW KENSINGTON—Burrowes, Geo. E.
NORRISTOWN—Furlong, Andrew
PHILADELPHIA—Bers, E. & Co., 330 S Del
Blakey, W. H., 313 Hale bldg av
Caine, John J., North American bldg
Caplin & Sall, 234 Queen
Coll. Jas. Co. (Inc.), 763 S 8th
Cunliffe, Robt. M., 11th & Washington
Dallett& Co., Harrison bldg
De Cou, Richard, 12th & Noble
Dreifus, Chas. Co., Pennsylvania bldg
Dreifus, Emanuel & Co., Arcade bldg
Fraley's, S. C. Sons, 515 Richmond
Gillingham, H. F. & Co., 1013 N Front
Girard Iron & Metal Co., E York & Aramingo av
Goldstein's, L. Sons, 1036 N Front
Halpern, Isaac Bros. & Co., 1420 E Oxford
Hazard, Coates & Bennett Co.
Henning, Jno. & Sons, 1016 E Susquehanna av
Hitner's, Hy. A. Sons Co. (Also Metals, etc.), Huntington & Aramingo av
Houston, C. B. & Co., Franklin Bank bldg
Johnson, Geo. T. & Co., Penn. bldg
Kaiser, A. V. & Co., Drexel bldg
Keeley, Jerome & Co., 421 Chestnut
Law, Ernest & Co., Harrison bldg
Leaf, E. B. Co., Real Estate Trust bldg
Marshall, Robt. M., 1913 Wash'n av
Mohr, J. J. & Son (Old Car Wheels, etc.), Bullitt bldg
Newkirk, Jno. B. & Co., Harrison bldg
Pearlman Bros. 1001 Chestnut
Plitt & Co., Real Estate Trust bldg
Purves Machinery & Iron Co., 17 South
Roberts & Freedman, 621 S 6th
Samuel, Frank (Firm of), Harrison bldg
Weil, Morris & Sons, 837 N 3d
Wheeler, Mifflin & Co., Arcade bldg
Wilson, E. H. & Co., Arcade bldg
Wister, L. & R. & Co., Bullitt bldg
Wood, A. M. Co., Arcade bldg
PITTSBURG—Bell Bros., 27th & A Ry
Continental Iron & Steel Co., Farmers' Bank bldg
Dreifus, Chas. Co., Frick bldg
Frank, M. K., Frick bldg
Green, L. A. & Co., Park bldg
Hausman & Wimmer Co., 111 2nd av
Isay, H. & Bro., 803 Penna av
Jones, J. B. & Co., 712 Lacock E
Keystone Iron & Steel Co.
Koehler, J. P. Co., 2918 Penn av
Koehler & Streng Co., 2830 Liberty av
Levinson, Schubb & Caplan, 35 Pride
McDermott, Jno. J., 1612 Woodside av
M'Lean, Geo. A. & Co., 915 Beaver av
McKenney, Wm. G. & Co., 2827 Smallman
Maloney, T. J., A V Railroad & 29th
Moore, Edgar M. & Co., Farmers' Bank bldg
Oratto, Frank, 4106 Liberty av
Riccordino, Angelo, 1014 Webster av
Sorocco, John J., 616 Webster av
Speer, M. B. & Co., 576 Lacock E
Streng's, M. Sons Co., River av & Walnut
Trimble, Mudge & Co.
Wilkoff Bros. Co., Farmers' Bank bldg
POTTSTOWN—Pollock, Mayer
POTTSVILLE—Brenner & Weiner
READING—Grieshaber, Wm.
Pear & Isecovitz
SUNBURY—Miller, Mike
WILKES-BARRE—Fisher, Louis I.
Shapiro, Henry

## RHODE ISLAND.

PROVIDENCE—Higgins, J. H. Co.
Perry, Wm. H. Co.
Pettis, B. H. Co.

## TENNESSEE.

KNOXVILLE—Tillery, J. T. Iron Co.
MEMPHIS—Memphis Iron & Metal Co.

## TEXAS.

HOUSTON—Block, Jules Junk Co.
Kaminsky, Louis & Co.
Simon, Louis S. & Co.

## VIRGINIA.

RICHMOND—Cosby, Clarence

## WASHINGTON.

TACOMA—Wallis & Sons

## WISCONSIN.

LA CROSSE—La Crosse Scrap Iron & Metal
MILWAUKEE—Jones, E. P. & Bro. Co.

# 10111— Scrap Rubber

Albany Waste & Metal Co., Albany, N. Y.
Alpert, M. & Son, New Haven, Conn.
Barker, A., Springfield, Ill.
Bers, E. & Co., 330 S Delaware av, Phila, Pa.
Berzen, Nat. E., 226 Front, New York
Burkenstein, S. & Sons, 409 W Ontario, Chicago, Ill.
Caplan & Sall, 234 Queen, Phila., Pa.
Chapman & Resnick, 1304 S Canal, Chicago, Ill.
Clapp, C. E. & Co., 189 High, Boston, Mass.
Cohen, D., Danville, Ill.
Cohen, J. & Son, Rochester, N. Y.
Cohn, Meyer, 117 Chambers, New York
Contey, Frank Co., 430 Mont'g, Jersey City, N. J.
Cummings, Wm. H. & Sons, 60 Harrison, New York
De Piano, A., Trenton, N. J.
Eisermann, Wm. (Foreign), 15 Whitehall, New York
Feldman, H. & Co., 611 Webster, Phila., Pa.
Gordon, Joseph, Trenton, N. J.
Grimm, Paul, 309 Water, New York
Hofeller, Theo. & Co., Buffalo, N. Y.
Kaplan, L., Salem, O.
Kaufman, M., 347 N Sheldon, Chicago, Ill.
Kilburne, A. W., Columbus, O.
Lehman Bros., Hoboken, N. J.
Loewenthal Co., 481 Washington, New York
London, N., 31 Peck st, New York
McGrory, Philip, Trenton, N. J.

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McTague, Martin T., 1221 Bainbridge, Phila., Pa.
Millard, Geo. P., Clyde, N. Y.
Moers, E. M. Sons, 16 James Slip, New York
Norton, E. F. & Co., 718 S Canal, Chicago, Ill.
Norton, M. & Co., Charlestown, Boston, Mass.
Nott, F. H., Richmond, Va.
Oppenheimer & Co., 133 Swan, Buffalo, N. Y.
Rosenthal, H. A., Trenton, N. J.
Rubber Waste Co., 1724 Park av, New York
Rubber & Metal Supply Co., 157 South, New York
Schnurmann, J. (Foreign), 150 Nassau, New York
Schwab & Co., 420 S Front, Phila, Pa.
Trenton Scrap Rubber Supply Co., Trenton, N. J.
Ullman, D. Sons, Buffalo, N. Y.
**WALSH'S SONS & CO., Harrison, N. J.** (See adv. index, end of book)
West Side Metal Refining Co., 519 Maxwell, Chicago, Ill.
Yorkville Scrap Rubber & Metal Co., 301 E 75th, New York

## 10111a— Scrap Tin

**WALSH'S SONS & CO., Harrison, N. J.** (See adv. index, end of book)

## 10112—Scraper-Sets (Carbon)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 10113—Scrapers (Asphalt)

Durlach, I. (5-ft. Handle), 54 Vesey, New York

## 10114—Scrapers (Battery Zinc)

Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.

## 10114a—Scrapers (Bearing)

**BUFFUM TOOL CO. (Three Cornered** automobile, Curved & Engineers' Sets), Louisiana, Mo. (See adv. index & branch offices, end of book)

## Scrapers (Boiler Flue or Tube)

(See Cleaners, Boiler Flue or Tube)

## 10115—Scrapers (Box & Plumbers')

Atkins, E. C. & Co. (Floor & Cabinet Bench), Indianapolis, Ind.
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
Bradley's, G. W. Sons (Inc.) (Box Only), Westport, Conn.
Browne & Dowd Mfg. Co. (Plumbers), Meriden, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
Chapin-Stephens Co., Pine Meadows, Conn.
Dicke Tool Co., Downers Grove, Ill.
Drew, C. & Co., Kingston, Mass.
Johnston, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
S. & I. Co., Springfield, Mass.
Sargent & Co., New Haven, Conn.
Stanley Rule & Level Co., New Britain, Conn.
Stortz, Jno. & Son, 210 Vine, Phila, Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Box Only), 2130 Carroll av, Chicago, Ill.
Weston, Thos. B. (Box), 118 Centre Market Space, Baltimore, Md.
White, L. & I. J. Co. (Single & Double Handle), Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 10116—Scrapers (Broom Corn)

Colton, G. D. & Co. ("Galesburg"), Galesburg, Ill.

## 10117—Scrapers (Butchers' Block)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
Browne & Dowd Mfg. Co., Meriden, Conn.
**BUFFUM TOOL CO. (Small Size),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Chatillon, John & Sons, 80 Cliff, New York
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
National Saw Co., Newark, N. J.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.
Vaughn & Bushnell Mfg. Co., Chicago, Ill.
White, L. & I. J. Co., Buffalo, N. Y.
Worcester Brush & Scraper Co., Worcester, Mass.

## 10118—Scrapers (Cabinet, Etc.)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Brown & Dowd Mfg. Co., Meriden, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
National Saw Co., Newark, N. J.
S. & I. Co., Springfield, Mass.
Sargent & Co., New Haven, Conn.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Stearns, E. C. & Co., Syracuse, N. Y.
Weber Mfg. Co., West Allis, Wis.
White, L. & I. J. Co., Buffalo, N. Y.

## 10118a—Scrapers (Carbon)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 10119— Scrapers (Coke)

New Castle Forge & Bolt Co., New Castle, Pa.
Niles Mine & Mill Supply Co., Williamson bldg, Cleveland, O., Niles, O.
Oliver Iron & Steel Co., Pittsburg, Pa.

## 10120—Scrapers (Coopers')

White, L. & I. J. Co., Buffalo, N. Y.

## 10121— Scrapers (Cotton)

Atlanta Agricultural Works ("Atlanta"), Atlanta, Ga.
Avery, B. F. & Sons, Louisville, Ky.
Blount, Henry F., Evansville, Ind.
Empire Plow Co., Cleveland, O.
Hall, Jas. H. Plow Co., Maysville, Ky.
Rock Island Plow Co., Rock Island, Ill.
Southern Plow Co., Columbus, Ga.

## Scrapers (Drag Wheel)

(See Road Scrapers, Drag & Wheel)

## 10122— Scrapers (Floor)

Daisy Mfg. Co. ("Daisy"), South Bend, Ind.
Foote, J. B. Foundry Co., Fredericktown, O.
Kuster, J. A. ("Common Sense"), Plymouth, Wis.
**OSBORN MFG. CO. (Iron Head Rubbers),** 5401 Hamilton av N E, Cleveland, Ohio. (See adv. index, end of book)
Schlueter, M. L., 103 N Canal, Chicago, Ill.
**STARRETT, L. S. CO., (For Floors,** Benches, etc.), Athol, Mass. (See adv. index & branch offices, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Steel Blades), 2130 Carrol av, Chicago, Ill.
Weber Mfg. Co., West Allis, Wis.

## 10123— Scrapers (Foot)

**ARCADE MFG. CO. ("Arcade"),** Freeport, Ill. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co. ("Doorstep"), 6106 La Salle, Chicago, Ill.
Columbia Grey Iron Co., Columbia, Pa.
Davis Mfg. Co., Milwaukee, Wis.
Dosch Mfg. Co. ("Champion"), Bridgeport, Conn.
Grab, Victor M. & Co. ("Grab"), Ashland blk, Chicago, Ill.
Griffin Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Heath Foundry & Mfg. Co., Plymouth, O.
Loetscher-Ryan Mfg. Co., Dubuque, Iowa
National Mfg. Co. (Self-Cleaners, "Upright," Wrought Steel), Sterling, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Pratt, Wm. E. Mfg. Co. (Steel), 91 Lake Chicago, Ill.
Reading Hardware Co., Reading, Pa.
**RICHARDS-WILCOX MFG. CO.** ("Richards-Wilcox" Steel), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Sargent & Co., New Haven, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Sterling Foundry Co. (For Concrete Walks), Sterling, Ill.
Stiles Foundry & Supply Co., Parkersburg, W. Va.
Stover Mfg. Co., Freeport, Ill.
Stowell Mfg. & Foundry Co., So. Milwaukee, Wis.
Thiel Specialty Co. ("Thiel" Sheet Steel), Sheboygan, Wis.
Weller Hardware & Foundry Co. (Cast), Horseheads, N. Y.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## 10124— Scrapers (Hog)

Hessler, H. E. & Co. (Reversible), Syracuse, N. Y.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Vaughn & Bushnell Mfg. Co. ("V. & B." Sheet Steel), 2130 Carroll av, Chicago, Ill.
White, L. & I. J. Co., Buffalo, N. Y.

## 10125—Scrapers (Ice Cream Can)

Stortz, John & Son, 210 Vine, Phila., Pa.

## Scrapers (Kettle)

(See Scrapers, Pot & Kettle)

## Scrapers (Miners')

(See Miners' Needles & Scrapers)

## 10126—Scrapers (Painters' & Paperhangers')

Browne & Dowd Mfg. Co., Meriden, Conn.
Cassady-Fairbank Mfg. Co. (Painters' Wall, etc.), 6106 La Salle, Chicago, Ill.
McNiece, Wm. & Son, 515 Cherry, Phila, Pa.
White, Ira F. & Son Co., Bloomfield, N. J.

## 10127—Scrapers (Pipe Line)

**PETROLEUM IRON WORKS CO.** ("The Klein"), Sharon, Pa. (See adv. index & branch offices, end of book)

## 10128— Scrapers (Plate)

Lasher Mfg. Co. ("Kitchen-Kumfort"), Davenport, Iowa

## 10129—Scrapers (Pot & Kettle)

(See also Chains, Pot)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Browne & Dowd Mfg. Co. ("Gem"), Meriden, Conn.
Cassady-Fairbank Mfg. Co. (Flexible, Ball Joint, "Buckeye"), 6106 La Salle, Chicago, Ill.
Christy Knife Co. ("Eclipse" Flexible), Fremont, O.
Kilbourne Mfg. Co., Troy, N. Y.
Kohler, F. E. & Co. (Flexible), Canton, O.
Metal Specialties Mfg. Co., 427 W Randolph, Chicago, Ill.
**MEYERS, FRED J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Rocky Hill Hardware Co., Rocky Hill, Conn.
Royal Mfg. Co., 406 Commerce, Phila., Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.

## 10130—Scrapers (Road & Pavement)

Lay, Jos. Co. (Steel Push), Ridgeville, Ind.
Strain & Sanford Co. ("Barnard Castle"), 18 W 34th, New York

## 10131—Scrapers (Self-Filling)

**LIDGERWOOD MFG. CO., 96 Liberty,** New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10132— Scrapers (Ship)

**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Chapin-Stephens Co., Pine Meadows, Conn.
Drew, C. & Co., Kingston, Mass.
Mack & Co., Rochester, N. Y.
Stortz, John & Son, 210 Vine, Phila., Pa.

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Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.
Vulcan Tool Mfg. Co., Quincy, Mass.
White, L. & I. J. Co., Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

## 10133—Scrapers (Sidewalk)

(See also Cleaners, Pavement)

American Shovel & Stamping Co., Lorain, O.
Jackson Shovel & Tool Co. (Steel), Montpelier, Ind.
Kohler, F. E. & Co. (Steel), Canton, O.
Maynard, C. A., Northampton, Mass.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

## 10134—Scrapers (Snow)

Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.

## 10135— Scrapers (Stove)

Fanner Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Ohio Nut & Bolt Co., Berea, O.
Stover Mfg. Co., Freeport, Ill.
Wire Goods Co. (For Stove Flues), Worcester, Mass.

## 10135a—Scrapers (Street)

**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)

## Scrapers (Track)

(See Cleaners, Track)

## 10136— Scrapers (Wall)

Bonney Vise & Tool Works (Steel), Allentown, Pa.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Kohler, F. E. & Co., Canton, O.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
**SMITH & HEMENWAY CO. ("Red Devil")**, 150 Chambers, New York. (See adv. index, end of book)
Stortz, John & Son, 210 Vine, Phila., Pa.
White, Ira F. & Son Co., Bloomfield, N. J.

## 10137— Scrapers (Wire)

Dicke, C. H. Tool Co. ("Perry"), Downers Grove, Ill.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Sibley & Pitman ("Climax"), 26 Warren, New York

## 10138—Screens (Bank Counter)

**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, enr of book)
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**HENRY-BONNARD BRONZE CO.,** Mt. Vernon, N. Y. (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY (A Specialty)**, 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
**WINSLOW BROS. CO., Main Office &** Works, 4600 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10139— Screens (Car)

American Car Screen Co. (Ventilating Window), Ferguson bldg, Pittsburg, Pa.
General Railway Supply Co. ("Imperial" Window), 204 Dearborn, Chicago, Ill.

## 10140—Screens (Clay & Cement)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
American Clay Working Machinery Co., Bucyrus, O.
Anderson Foundry & Machine Works (Revolving), Anderson, Ind.
Chambers Bros. Co. ("H. G. Virgin," For Clay Only), 52d, bel. Lancaster av, Philadelphia, Pa.
Cross Engineering Co., Carbondale, Pa.
Dunlap Mfg. Co., Bloomington, Ill.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Manufacturers' Equipment Co., Dayton, O.
Ohio Ceramic Engineering Co., Cleveland, O.
Portsmouth Machine & Casting Co., Portsmouth, O.
Raymond, C. W. Co., Dayton, O.
Traylor Engineering Co., Allentown, Pa.

## Screens (Coal)

(See Screens, Sand, Coal & Gravel; also **Screens, Revolving & Shaking**)

## 10141—Screens (Cylindrical)

Hendrick Mfg. Co., Carbondale, Pa.
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Johnston & Chapman Co. ("John O'Laughlin's"), 2906 Carroll av, Chicago, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.

## 10142—Screens (Decorative)

Syracuse Screen & Grille Co. (Folding, etc.), North Manchester, Ind.

## 10143—Screens (Diaphragm)

Baker & Shelvin Co. ("Monarch" for Paper Mills), Saratoga Springs, N. Y.
Harmon Machine Co. ("Harmon" for Paper Mills), Watertown, N. Y.

## 10144—Screens (Distintegrating)

American Concentrator Co. ("New Century"), Joplin, Mo.

## Screens (Door)

(See Screens, Window & Door)

## 10144a—Screens (Fat & Bone Washing, Etc.)

**LINK BELT COMPANY, Hunting** Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

## 10145— Screens (Feed)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## Screens (Fire Place)

(See Fire Place Furnishings)

## 10146—Screens for Water Works

Coldwell-Wilcox Co. (For Purifying Water), Newburgh, N. Y.
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)

## 10146a—Screens (Fly, Rustless)

**BURROWES, E. T. CO., THE, 70** Free, Portland, Me. (See adv. index & branch offices, end of book)

## 10147—Screens (Foundry)

Belmer, H. & Co., Cincinnati, O.
Buffalo Wire Works Co., Buffalo, N. Y.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**STANDARD SAND & MACHINE CO. (Power or Hand), 5157 St. Clair, Cleveland, O. (See adv. index, end of book)**
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 10148—Screens (Gravel Washing)

Stephens-Adamson Mfg. Co. ("S.-A"), Aurora, Ill.

## 10149—Screens (Impact)

Colorado Iron Works Co., Denver, Colo.

## 10149a—Screens (Insect, Wire)

**BURROWES, E. T. CO., THE, Portland, Me.** (See adv. index & branch offices, end of book)

## 10150—Screens (Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York

## 10151—Screens (Mining)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Concentrator Co. ("New Century" Disintegrating & "Henry" Classifying & Sizing), Joplin, Mo.
**Atchison Perforating Co., 303 Dearborn, Chicago, Ill.**
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
Beaumont, R. H. Co., Drexel bldg, Phila., Pa.
Belmer, H. & Co., Cincinnati, O.
**Buffalo Wire Works Co., Buffalo, N. Y.**
California Perforating Screen Co., San Francisco, Cal.
Carbondale Machine Co., Carbondale, Pa.
Chalmers & Williams, Chicago Heights, Ill.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Clinton Wire Cloth Co., Clinton, Mass.
Colorado Iron Works Co., Denver, Col.
Connellsville Machine & Car Co., Connellsville, Pa.
Cross Engineering Co., Carbondale, Pa.
Danville Foundry & Machine Co., Danville, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Eng. Works Co., Denver, Colo.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Eagle Iron Works (Shaking, etc.), Terre Haute, Ind.
Elspass Engineering & Mining Machinery Co. ("Tiger"), Denver, Colo.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairmont Mining Machinery Co., Fairmont, W. Va.
Hallidie Co. (Revolving), Spokane, Wash.
**HANKE IRON & WIRE WORKS,** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
Harrington & King Perforating Co., 614 N Union, Chicago, Ill.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hendrick Mfg. Co., Carbondale, Pa.
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
Hunt, E. H. & Co. (Coal, etc.), Wilkes Barre, Pa.
**JEFFREY MFG. CO., (For Coal,** Ores, etc.), Columbus, O. (See adv. index & branch offices, end of book)
**LANDON, E. R. IRON & WIRE** Works, 166 N May, Chicago, Ill (See adv. index, end of book)
Littleford Bros., Cincinnati, O.
Lucas, A. & Sons (Coal Mine Shaking), Peoria, Ill.
Ludlow-Saylor Wire Co. (Double Crimped), St. Louis, Mo.
McFarlane Mfg. Co., Denver, Col.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Mecklenburg Iron Works, Charlotte, N. C.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Colo.
Morse Bros. Machinery & Supply Co. ("Wild"), Denver, Col.
Mundt, Chas. & Sons, Jersey City, N. J.
Nelsonville Foundry & Machine Co. (Bar & Revolving), Nelsonville, O.
Niles Mine & Mill Supply Co., Niles, O.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Prox, Frank Co., Terre Haute, Ind.

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Scottdale Foundry & Machine Co., Scottdale, Pa.
**SMITH, T. L. CO., The, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Snyder Steel & Iron Works Co., Kansas City, Mo.
Stephens-Adamson Mfg. Co. ("S-A"), Aurora, Ill.
Traylor Engineering Co., Allentown, Pa.
Traylor, John A. Machinery Co., Denver, Colo.
**TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York.** (See adv. index & branch offices, end of book)
Urie-Snyder Iron Works Co., Kansas City, Mo.
Vulcan Iron Works, Wilkes-Barre, Pa.
Webb City & Cartersille Foundry & Machine Works ("Henry", Ore Sizing), Webb City, Mo.
West Pittston Screen Works (Wire Coal Screens), West Pittston, Pa.

## 10152—Screens (Paper Mill)

Jolly, J. W. (Inc.) ("White", Oscillating(, Holyoke, Mass.
Moore & White Co. ("M & W" Rotary), 15th & Lehigh av, Phila., Pa.
Ryther & Pringle Co. (Balanced Shaker Chip), Carthage, N. Y.

## 10152a—Screens (Perforated, for Coal, Etc.)

**PITTSBURG CONVEYING MACHINery Co., Pittsburg, Pa.** (See adv. index, end of book)

## 10153—Screens (Revolving Water)

Sandy Hill Iron & Brass Works, Hudson Falls, N. Y.

## 10154—Screens (Revolving & Shaking)

Acme Road Machinery Co., Frankfort, N. Y.
Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Pulverizer Co. ("American" Revolving), St. Louis, Mo.
American Road Machine Co., Kennett Square, Pa.
Atlanta Utility Works (Shaking only), East Point, Ga.
**BARTLETT, C. O. & SNOW CO.** ("Triumph" Revolving for Slack Coal, etc.), French st, Cleveland, O. (See adv. index & branch offices, end of book)
Bonnot Company (Clay Working), Canton, O
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Chalmers & Williams (Revolving for Wet Sizing, etc.), Chicago Heights, Ill.
Cross Engineering Co., Carbondale, Pa.
Day, J. H. Co. (Sands, Clay, etc.), Cincinnati, Ohio
Eagle Foundry & Machine Co., Fort Scott, Kan.
Eagle Iron Works, Terre Haute, Ind.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
Haiss, Geo. Mfg. Co. (Revolving Only), 141st & Rider av, New York
Hallidie Co. (Revolving for Mines) Spokane, Wash.
Harrington & King Perforating Co., 614 N Union, Chicago, Ill.
Helmick Foundry & Machine Co., Fairmont W. Va
Hendrick Mfg. Co. (Revolving Only), Carbondale, Pa.
Herzler & Henninger Machine Works, Belleville, Ill.
**HOWARD & MORSE, 46 Fulton, New York.** (See adv. index, end of book)
**JEFFREY MFG. CO., (All kinds, of** Any Capacity), Columbus, O. (See adv. index & branch offices, end of book)
Krom Machine Works (Self-Cleaning Revolving), 170 B'way, New York; Works: Jersey City, N. J
Leslie, Elliot & Co., Paterson, N. J.
**LINK BELT COMPANY, ("Link Belt"** for Coal, Phosphate, etc.), Hunting Park av. & Reading Ry, Phila, Pa. (See adv. index & branch offices, end of book)
Littleford Bros., Cincinnati, O.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Mundt, Chas. & Sons, Jersey City, N. J.
Nelsonville Fdry. & Mach. Co., Nelsonville, O
Nordyke & Marmon Co., Indianapolis, Ind.
Ottumwa Box Car Loader Co. (Shaking), Ottumwa, Iowa
Pacific Tank & Pipe Co., San Francisco, Cal., & Los Angeles, Cal.
Prox, Frank Co., Terre Haute, Ind.
Pyott Co., 945 Carroll av, Chicago, Ill.
Sackett, H. B. Screen & Chute Co., 4220 State, Chicago, Ill.
**SMITH, T. L. CO., The, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Steele & Condict (Inc.) ("Condict," Roller Bearing Revolving), Jersey City, N. J.
Stephens-Adamson Mfg. Co. ("S.-A." Revolving), Aurora, Ill.
Taylor Iron & Steel Co. (Revolving & Flat) High Bridge, N. J
**TYLER, W. S. CO. (Revolving Only),** Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book
Union Iron Works Co., San Francisco, Cal.
Universal Road Machinery Co., Kingston, N. Y.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walker & Elliott ("For Fertilizing Material"), Wilmington, Del.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Western Wheeled Scraper Co., Aurora, Ill.

## 10155—Screens (Roller Window)

Invisible Roll Screen Co. ("Invisible"), 446 Adelphi, Brooklyn, N. Y.
Jamestown Window Screen Co., Jamestown, N. Y.
Purinton, C. F. Co., South Easton, Mass.

## 10156— Screens (Rolling)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 10157— Screens (Rotary)

Wendel Screen Mfg. Co. ("Wendel", Double, for Power Mills, etc.), Walpole, Mass.

## 10158—Screens (Safe Deposit)

(See Screens, Bank Counter)

## 10159—Screens (Sand, Coal & Gravel)

Aitchison Perforating Co., 303 Dearborn, Chicago, Ill.
Atlanta Wire & Iron Works Co., Atlanta, Ga.
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barker, S. G. & Son (Coal Only), Scranton, Pa.
Beaumont, R. H. Co., Drexel bldg, Phila., Pa.
Beimer, H. & Co., Cincinnati, O.
Bigelow, Cheney Wire Works, Springfield, Mass.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., Buffalo, N. Y.
Cabble, Wm. Excelsior Wire Mfg. Co., 43 Fulton, New York
California Perforating Screen Co., San Francisco, Cal.
Carbondale Machine Co., Carbondale, Pa.
Cement Tile Machinery Co. ("S & S", Revolving for Sand & Gravel), Waterloo, Iowa
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Clinton Wire Cloth Co., Clinton, Mass.
Cross Engineering Co., Carbondale, Pa.
**DARBY, EDWARD & SONS CO., 239 Arch,** Phila, Pa. (See adv. index, end of book)
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Harrington & King Perforating Co., 614 N Union, Chicago, Ill.
Helmick Foundry & Machine Co., Fairmont, W. Va.
**HOWARD & MORSE, 46 Fulton, New** York. (See adv. index, end of book)
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**JEFFREY MFG. CO., ("Standard"),** Columbus, O. (See adv. index & branch offices, end of book)
Littleford Bros., Cincinnati, O.
**MARSH-CAPRON MFG. CO., 480 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH CO., 975 Old Colony bldg,** Chicago, Ill. (See adv. index & branch offices, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Morss & Whyte Co., 75 Cornhill, Boston, Mass.
Mundt, Chas. & Sons, Jersey City, N. J.
Phillips, Doup & Co., 56 Pearl, B'lyn, N. Y.
Phillips Mine Supply Co., Pittsburg, Pa.
New Jersey Wire Cloth Co., Trenton, N. J.
Sackett Screen Co. (Steel Coal Screens Only), Fredonia, N. Y.
Schalkenbach & Budke, Jersey City, N. J.
**SMITH, F. P. WIRE & IRON WKS.,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SMITH, T. L. CO., The, Majestic** bldg, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Syracuse Wire Works, Syracuse, N. Y.
**TAYLOR & DEAN, Penn av, & 25th,** Pittsburg, Pa. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O., & 11** B'way, New York. (See adv. index & branch offices, end of book)
Union Steel Screen Co. (Ltd.), ("Union" Sand & Gravel), Albion, Mich.
Vulcan Iron Works, Wilkes-Barre, Pa.
**WEBSTER MFG. CO. Coal Only),** 2410 W 15th, Chicago, Ill., & 88 Reade, New York (See adv. index & branch offices, end of book)
What Cheer Wire Works, Providence, R. I.
Wickwire Bros., Cortland, N. Y.
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.
**WRIGHT WIRE CO. (Also Revolv-**ing), Worcester, Mass. (See adv. index & branch offices, end of book)

## 10160—Screens (Steam Pipe Covering)

Tuttle & Bailey Mfg. Co., 76 Madison av

## 10160a—Screens (Stone)

(See Screens, Revolving & Shaking)

## 10161—Screens (Suction)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Sandy Hill Iron & Brass Works ("Packers" Diaphragm for Paper Mills), Hudson Falls, N. Y.

## 10162—Screens (Vibrating)

**JEFFREY MFG. CO., ("Jeffrey").** Columbus, O. (See adv. index & branch offices, end of book)

## 10163— Screens (Well)

Johnson, E. E. "Johnson"), St. Paul, Minn.
Layne & Bowler Co. (For Irrigation Wells), Houston, Tex.
Layne & Bowler Co. of California, Los Angeles, Cal.
Stancliff Well Screen & Mfg. Co., Houston, Tex.

## 10164—Screens (Window, Metal Frame)

American Screen Co., Brookline, Mass.
Baker, W. J. Co., Newport, Ky.
Cincinnati Mfg. Co. ("Cin-Man-Co."), 1243 W 6th, Cincinnati, O.
Continental Co. (Wholesale Mfrs.), Detroit, Mich.
Higgin Mfg. Co., Newport, Ky.
Jamestown Window Screen Co. (To Order Only. Rolling, All Metal & Wood), Jamestown, N. Y.
Metal Screen & Mfg. Co., St. Paul, Minn.
Metallic Screen Co. (Adjustable), Collins, Wis.

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Milliken, John P. Co., 560 Willoughby av, Brooklyn, N. Y.
**Purinton, C. F. Co. ("Roll-A-Way"), South Easton, Mass.**
**Snow, Fred O. & Co., 17 Milk, Boston, Mass.**
Standard Stamping Co. ("Armstrong"), (Made to Order Only), 2000 N B'way, St. Louis, Mo., or Marysville, O.
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
Watson Mfg. Co., Jamestown, N. Y.

## 10165—Screens (Window & Door)

(Wholesale Manufacturers are so Indicated Between their Name & Address)

Adams Mfg. Co., Los Angeles, Cal.
**Agee Screen Co., Ft. Worth, Tex.**
American Screen Co. (Wholesale Mfrs.), Brookline, Mass
American Window Screen Co., 409 Brown, Bostwick-Godell Co., Norwalk, O. Phila, Pa.
Bromwell Wire Screen Co., Greensburg, Ind.
Burlington Venetian Blind Co., Burlington, Vt
**BURROWES, E. T. CO., THE (Mfrs., also Wire Insect Screens, Rustless), 70 Free,** Portland, Me. (See adv. index & branch offices, end of book)
Carlson, Emil W. & Co., 3747 N Clark, Chicago, Ill.
Chattanooga Screen Co. ("Fly Escape"), Chattanooga, Tenn.
Cincinnati Fly Screen Co., Cincinnati, Ohio
Cincinnati Mfg. Co. (Metal, to Order Only), 1243 W 6th, Cincinnati, O.
Continental Co. (Metal & Wood, Wholesale Mfrs.), Detroit, Mich.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Dallas Screen Co., Dallas, Tex.
DeWitt Wire Cloth Co., 631 Market, Philadelphia, Pa.
Fallen, A. & Co., 1223 Belmont av, Chicago, Ill.
Fish, A. E. & Co., Keene, N. H.
Freeman, Chas. A. Mfg. Co. (Sliding), 178 Devonshire, Boston, Mass.
Fuller & Rice Lumber & Mfg. Co. (Wholesale), Grand Rapids, Mich
Grand Rapids Screen Co., Grand Rapids, Mich
Hipolito Screen & Sash Co., Los Angeles, Cal.
Hubbell & Son, 3444 Indiana av, Chicago, Ill.
Huebner Screen Door Co., Detroit, Mich.
Introstyle & Novelty Co., Marietta, O.
Jamestown Window Screen Co., Jamestown, N. Y.
Kane Blind & Screen Co. (Rustless), Kane, Pa.
Maclaren & Sprague Lumber Co. (Wholesale), Toledo, O.
Maine Screen & Ventilator Co. ("Peerless", Adjustable), Fairfield, Me.
Menke-Grimm Planing Mill Co., Quincy, Ill.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Milliken, John P. Co., 560 Willoughby av, Brooklyn, N. Y.
Morgan Co., Oshkosh, Wis., & 22nd & S. Union, Chicago, Ill.
Owosso Mfg. Co. (Adjustable Frames) (Wholesale Mfrs.), Owosso, Mich. & Benton, Ark.
Penna. Woven Wire Co., Lock Haven, Pa.
Phenix Mfg. Co. (Also Swinging Half, Sliding, etc., Wholesale Mfrs.), Milwaukee, Wis.
Philadelphia Screen Mfg. Co. (Wholesale Mfrs.), Paschall av & 56th, Phila., Pa.
Phillips, A. J. Co. (Made to Order), Fenton, Mich.
Porter Screen Mfg. Co. (Wholesale Mrfs.), Trenton, N. J.
Prentice, Frank W. & Co., Adrian, Mich.
Riggs Cypress Co. (Wholesale Mfrs.), Patterson, La.
Roach & Musser, Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa
Robbins Mfg. Co., 1801 N Central Park av, Chicago, Ill.
Roebuck Weather Strip & Wire Screen Co., 419 Hamilton av, Brooklyn, N. Y.
Schumacher, F. E. Co., Hartville, O.
Snow, Fred O. & Co., 17 Milk, Boston, Mass.
Solmson, M. Fly Screen Co. (Rustless), cor Bayard & Nanticoke, Baltimore, Md.
Springfield Wire Screen Co., Springfield, Ill.
Standard Screen Co., 1848 W 14th, Chicago, Ill.
Standard Stamping Co. ("Armstrong"), Marysville, O., or St. Louis, Mo.
Sunset Door & Sash Co. (Wholesale Mfrs.), Stockton, Cal.
**TAYLOR & DEAN (Made to Order),** Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)
Toledo Screen Co., Toledo, O.
Wabash Screen Door Co., 115 Adams, Chicago, Ill.
Watson Mfg. Co. (To Order Only, All Metal, also Wood), Jamestown, N. Y.
Wheeler Screen Co., Geneva, Ill.
Wilbur Corp'n, New Haven, Conn.
Willer Mfg. Co. (To Order Only), Milwaukee, Wis.
**WILSON, JAS. G. MFG. CO., Chief Office** 3 West 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)
Wright, Frank, Cave Spring, Ga.

## 10165a—Screens (Wire, Rustless)

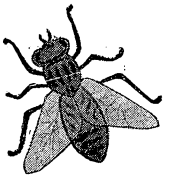
**BURROWES, E. T. CO., THE (Rustless), 70 Free,** Portland, Me. (See adv. index & branch offices, end of book)

## 10166— Screens (Wood)

Eagle Lock Co., Terryville, Conn.

## 10167—Screw Driver Mfrs.

**ARCADE MFG. CO. ("Serpentine",** "Arcade" & "Combination"), Freeport, Ill. (See adv. index, end of book)
Atwater Mfg. Co. ("All Steel"), Southington, Conn.
Benjamin-Sellar Mfg. Co. ("Benjamin" Friction Drive), 557 W Quincy, Chicago, Ill.
**BERNZ, OTTO, 21 Ashland av, Newark,** N. J. (See adv. index, end of book)
Billings & Spencer Co. ("B. & S." Magazine Combination Knife & Screw Driver, etc.), Hartford, Conn.
Braunsdorf-Mueller Co. ("Never Twist," "New Century" & "Improved Locksmith"), Elizabeth, N. J.
Bridgeport Hdwe. Mfg. Co. (Reversible Pocket, "Blackstone," "Lead All," "Gripshank," "Owl," "Autodriver," "Challenge," "Sterling," "Acme," "Perfecto," "Knapp & Cowles," "Ideal," "Rosedale," "B. M. Co.," "Bedford," "Union"), Bridgeport, Conn.
Brown, R. H. & Co. ("Clark's"), New Haven, Conn.
Browne & Dowd Mfg. Co. ("I. L."), Meriden, Conn.
Buffalo Specialty Co. (Leather Handle), Buffalo, N. Y.
**BUFFUM TOOL CO. (Engineers &** Assemblers' "T" & Offset, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)
Bullock Mfg. Associates (Spiral Reversible), Springfield, Mass.
Burgess-Norton Mfg. Co. ("Bur-Nor" Folding), Geneva, Ill.
Cassady-Fairbank Mfg. Co. ("Cassady," "Premier," "Fairbank," "Columbia" & "No. 100 & 200"), 6106 La Salle, Chicago, Ill.
Cincinnati Tool Co. ("Hargraves"), Norwood, Cincinnati, O.
Clement Mfg. Co. ("Vulcan" Hollow Handle), Northampton, Mass.
Crescent Tool Co., Jamestown, N. Y.
Cronk & Carrier Mfg. Co. ("Star," "Cronk's"), Elmira, N. Y.
Decatur Coffin Co. ("Eureka"), Decatur, Ill.
Dicke Tool Co. (For Electrical & Machinery Work), Downers Grove, Ill.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Ducharmes & Co., Shelbune Falls, Mass.
Elmore Tool Mfg. Co. ("Elmore" Square Shank), Hartford, Conn., & Weathersfield, Conn.
Gay, Geo. E. ("Gay" & "Union" Double Acting Rachet), Augusta, Me.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Props), 157 Chambers, New York
Johnson, Wm. (Hedenberg Works), (In great Variety), Newark, N. J.
Kendrick & Davis (Small), Lebanon, N. H.
Kimball, C. J. Co., Bennington, N. H.
Kinckiner & Scott ("Change Blade"), 626 N 12th, Phila., Pa.
Knickerbocker Mfg. Co., Belleville, N. J.
Marsh, Frank E., Waltham, Mass.
Mayhew, H. H. Co. (Machinists), Shelburne Falls, Mass.
Miller's Falls Co. (Ratchet, Duplex & Automatic, In & Out), 28 Warren, New York
Mueller, H. Mfg. Co., Decatur, Ill.
New England Specialty Co., N. Easton, Mass.
Niagara Handle & Ferrule Co., Baltimore, Md.
North Bros. Mfg. Co. ("Yankee" Ratchet & Pocket Magazine, etc.), Lehigh av c American, Phila., Pa.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Rehm Hardware Co. (Pocket), 1501 Blue Island av, Chicago, Ill.
Reid, A. H. Creamery & Dairy Supply Co. ("Reid" Automatic), 69th & Haverford, Phila., Pa.
Robinson, M. W. Co. ("Buell's"), 88 White, New York

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S. & I. Co. ("S. & I. Never Break", Solid End, Machinists, etc.), Springfield, Mass.
Sargent & Co., New Haven, Conn.
Sawyer Tool Mfg. Co. ("Samson"), Fitchburg, Mass.
Smith, H. D. & Co. ("Perfect Handle," Drop Forged), Plantsville, Conn.
Smith, J. Barton Co., Norris & Hope, Phila., Pa.
Smith & Egge Mfg. Co., Bridgeport, Conn.
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Snell Mfg. Co., Fiskdale, Mass.
Southington Mfg. Co., Southington, Conn.
Stanley Rule & Level Co. ("Defiance," "Leader," "Hurwood"), New Britain, Conn.
**STAR EXPANSION BOLT CO. ("Sebco"),** 147 Cedar, New York. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO., (Pocket** Jewelers, etc.), Athol, Mass. (See adv. index & branch offices, end of book)
Stevens & Co. ("Dainty Little", "Baby", "Twins"), 375 B'way, New York
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swan, Jas. Co., Seymour, Conn.
Swift-Waters Mfg. Co. (Interchangeable), Kensington, Conn.
Syracuse Twist Drill Co. (Knurl Tool Makers), Syracuse, N. Y.
Tuck Mfg. Co., Brockton, Mass.
Turner & Deegan, Bristol, Conn.
Union Hardware Co. ("Champion"), Torrington, Conn.
Vanderbeek, A. (Combination), Hartford, Conn.
Waltham Watch Tool Co., Springfield, Mass.
White, Ira F. & Son Co., Bloomfield, N. J.
White, L. & I. J. Co., Buffalo, N. Y.
Wiebusch & Hilger (Ltd.), ("Fairchild Adjustable"), 106 Lafayette, New York

## 10168–Screw Driver & Corkscrew Combined

Browne & Dowd Mfg. Co., Meriden, Conn.

## 10169–Screw Driver & Holder

**STARRETT, L. S. CO. (Opticians'),** Athol, Mass. (See adv. index & branch offices, end of book)

## 10170–Screw Drivers (Automatic)

Goodell-Pratt Co. (Also Ratchet Automatic Bench Drill), Greenfield, Mass.
Miller's Falls Co., 28 Warren, New York
**Reid, A. H. Creamery & Dairy Supply Co.** ("Reid"), 69th & Haverford, Phila., Pa.
Reynolds Pattern & Machine Co. (For Shops Having a Large Number of Screws to Set), Moline, Ill.
Swan, James Co., Seymour, Conn.

## 10171–Screw Drivers (Electricians')

(See Screw Drivers, Insulated Handle & Ratchet)

## 10171a–Screw Drivers (Flexible Shaft)

**COATES CLIPPER MFG. CO. ("Coates"),** Worcester, Mass. (See adv. index, end of book)

## 10172–Screw Drivers (Folding)

**RICHARDS - WILCOX MFG. CO.** ("Bur-Nor"), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 10173–Screw Drivers (Insulated Handle & Rachet)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Buffalo Specialty Co. (Leather), Buffalo, N. Y.
Cincinnati Tool Co. ("Hargraves"), Cincinnati, Ohio
Disston, H. & Sons (Inc.), Tacony, Phila., Pa.
Ducharmes & Co., Shelbourne Falls, Mass.
Gould, Jno. D. ("Up-to-Date"), 100 William, New York
**JOHNS, H. W.-MANVILLE CO. (Insulated Handles),** 100 William, New York. (See adv. index & branch offices, end of book)
**Stanley Rule & Level Co., New Britain, Conn.**
**STARRETT, L. A. CO. ("Starrett",** Pocket, with Hard Rubber Handle), Athol, Mass. (See adv. index & branch offices, end of book)
Stortz, Jno. & Son (Plain, Rosewood & Cocobola Handles), 212 Vine, Phila., Pa
Swan, James Co., Seymour, Conn.

## 10174–Screw Drivers (Jewelers')

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10174a–Screw Drivers (Railroad Spike)

Washburn Shops of the Polytechnic Institute, Worcester, Mass.

## 10175– Screw Eyes

American Iron & Steel Mfg. Co., Lebanon, Pa.
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Brooks, M. S. & Sons (Brass & Iron Wire) Chester, Conn.
Corbin Cabinet Lock Co., New Britain, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Humason & Beckley Mfg. Co., New Britain, Conn.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa
Kansas City Bolt & Nut Co. (1¼-in. dia. to 1¾), Kansas City, Mo.
Landers, Frary & Clark, New Britain, Conn.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
North & Judd Mfg. Co. (Loop, etc.), New Britain, Conn.
Sargent & Co., New Haven, Conn. & 94 Center, New York
Wilcox, Crittenden & Co., Middletown, Conn.
Wire Hardware Co., 1824 Besly Court, Chicago, Ill.
Wire Specialty Works, 551 Fulton, Chicago, Ill.
Wire Goods Co. (Bright Wire & Brass Wire), Worcester, Mass.

## 10176–Screw Machine Products

Acorn Brass Mfg. Co., Aurora, Ill.
Anthony Screw Co., Worcester, Mass.
Ashley Machine Works, Rochester, N. Y.
Atlantic Machine Screw Co., Boston, Mass.
**ATLAS BOLT & SCREW CO. (Automatic),** Marquette, opp. Hamilton av, N E, Cleveland, O.
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Blake & Johnson Co., Waterbury, Conn.
Bowen Mfg. Co. (All Kinds in Brass & Steel), Auburn, N. Y.
Bridgeport Metal Goods Mfg. Co., Bridgeport, Conn.
Burns & Bassick Co., Bridgeport, Conn.
Cassady-Fairbank Mfg. Co. (Contract Work a Specialty), 6106 La Salle, Chicago, Ill.
Cincinnati Ball Chuck Co., Cincinnati, O.
Clark Novelty Co., Rochester, N. Y.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Crescent Tool Co., Jamestown, N. Y.
Critchley Machine Screw Co., Worcester, Mass.
Curtiss Screw Co., Buffalo, N. Y.
Defiance Screw Machine Products Co., Defiance, Ohio
Delaware Marine Supply Mfg. Co., Wilmington, Del.
**DETROIT SCREW WORKS,** 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Eastern Machine Screw Corp., New Haven, Conn.
Eclipse Machine Co., Elmira, N. Y.
Flanders Mfg. Co. (Auto Work a Specialty), Pontiac, Mich.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Frost Mfg. Co., Kenosha, Wis.
**GLOBE MACHINE & STAMPING CO.,** 3868 Mamilton av, Cleveland, O. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Hampden Machine Screw Co., Springfield, Mass.
Hanson Bros., Plainville, Conn.
Hartford Machine Screw Co. (From All Metals), Hartford, Conn.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
International Brass & Electric Co., 76 Beekman, New York
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Keim, Jno. R. Mills (Inc.), Buffalo, N. Y.
Machine Parts Co., Elyria, O.
Manhattan Screw & Stamping Works, West End av & 67th, New York
Mellar Mfg. Co., Springfield, Mass.
Michigan Screw Co., Lansing, Mich.
Moore, G. W., Boston, Mass.
Mossberg, Frank Co., Attleboro, Mass.
Motor Car Specialty Co. (Small), Trenton, N. J.
**NATIONAL ACME MFG. CO., 75** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
National Cycle Mfg. Co., Bay City, Mich.
National Sewing Machine Co., Belvidere, Ill.
New Haven Machine Screw Co., New Haven, Conn.
**NIAGARA FALLS METAL STAMPing** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Parham & Lawser, 712 Cherry, Phila., Pa.
**PARKER, JOHN L. CO. (Automatic),** Worcester, Mass. (See adv. index, end of book)
Peninsular Milled Screw Co., Detroit, Mich.
Perry-Fay Mfg. Co. (Of All Kinds), Elyria, O.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Progressive Mfg. Co. (Steel, Brass & Copper, Studs, Screws, Rivets, Threaded Wire, etc., to Order Only), Torrington, Conn.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Racine Metal Stamping Co., Racine, Wis.
Reed & Prince Mfg. Co., Worcester, Mass.
Risser Mfg. Co., 1033 W Lake, Chicago, Ill.
Rochester Machine Screw Co., Rochester, N. Y.
S. & I. Company, Springfield, Mass.
Screw Machine Products Co. (Brass or Steel), Providence, R. I.
Smith, F. H. Mfg. Co. (Special to Order), 321 St. John's ct, Chicago, Ill.
Spencer's, I. S. Sons, Guilford, Conn.
Standard Co., Torrington, Conn.
Standard Mfg. Co., Bridgeport, Conn.
United States Automatic Co., Amherst, O.
Universal Machine Screw Co., Hartford, Conn.
Waltham Screw Co., Waltham, Mass.
Worcester Machine Screw Co., Worcester, Mass.

## Screw Machinery

(See Screw Cutting Machines; Screw Polishing Machines; Screw Shaving Machines; Screw Slotting Machines; Screw Thread Rolling Machines)

## 10177– Screw Mfrs.

(Under this Heading see Sub-classifications)

American Iron & Steel Mfg. Co., Lebanon, Pa.
American Rivet Co., New Haven, Conn.
American Screw Co. (Brass, Bronze, Copper & Iron), Providence, R. I.
Atlantic Screw Works, Hartford, Conn.
Atlas Bolt & Screw Co., Cleveland, O.
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N E, Cleveland, O. (See adv. index, end of book)
Blake & Johnson Co., Waterbury, Conn.
Boston Bolt & Iron Co., Boston, Mass.
Champion Mfg. Co., 7332 Kimbark av, Chicago, Ill.
Chapin-Stephens Co., Pine Meadow, Conn.
Chicago Nut Co., 617 W Jackson boul, Chicago, Ill.

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Chicago Screw Co., 519 Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Clark Bros. Bolt Co., Milldale, Conn.
Colorado Fuel & Iron Co., Denver, Col.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works 22d & Union, Chicago, Ill.
Continental Wood Screw Co., New Bedford, Mass.
Corbin Screw Corporation, New Britain, Conn.
Critchley Machine Screw Co., Worcester, Mass.
**DETROIT SCREW WORKS, Detroit,** Mich. (See adv. index, end of book)
Eastern Bolt & Nut Co., Providence, R. I.
Eastern Machine Screw Corp., New Haven, Conn.
Equipoise Rivet Co., Waterbury, Conn.
Ferry Cap & Set Screw Co. (Steel), Cleveland, Ohio
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Gary Bolt & Screw Co., Gary, Ind.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Greenlie, Wyatt & Co., 499 Water, New York
Hall's Samuel Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Hope, Wm. H. Co. (Milled, etc.), Lowell,
Hubbell, Harvey, Bridgeport, Conn. Mass.
Humason & Beckley Mfg. Co., New Britain, Conn.
Kansas City Bolt & Nut Co., Kansas City, Mo.
**KEIM, JNO. R. MILLS, (Inc.), Buf**falo, N. Y. (See adv. index, end of book)
Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Michigan Screw Co., Lansing, Mich.
Miles, Franklin S. Co., 205 Quarry, Phila, Milton Mfg. Co., Milton, Pa. Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland O. (See adv. index & branch offices, end of book)
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
National Sewing Machine Co., Belvidere, Ill.
New England Screw Co., 15 Chardon, Boston, Niagara Screw Co., Buffalo, N. Y. Mass.
Ohio Nut & Bolt Co., Berea, O.
Pawtucket Mfg. Co., Pawtucket, R. I.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Perry-Fay Mfg. Co., Elyria, O.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Progressive Mfg. Co., Torrington, Conn.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Reading Screw Co., Norristown, Pa.
Reed & Prince Mfg. Co., Worcester. Mass.
Republic Iron & Steel Co., Pittsburg, Pa.
Reynolds & Co., New Haven, Conn.
Richards, F. C. Hdw. Co., Winsted, Conn.
Rochester Machine Screw Co., Rochester, N. Y.
Rogers Screw Co., Providence, R. I.
Russell, Burdsell & Ward Bolt & Nut Co., Port Chester, N. Y. & Rock Falls, Ill.
Scranton Bolt & Nut Co., Scranton, Pa.
Screw Machine Products Corporation, Providence, R. I.
St. Louis Screw Co., St. Louis, Mo.
Smith, F. H. Mfg. Co. (Special to Order), 321 St. John ct, Chicago, Ill.
Southington Hardware Co., Southington, Conn.
Standard Screw Co., 6 Madison, Chicago, Ill.
Steele & Johnson Mfg. Co., Waterbury, Conn.
U. S. Automatic Co., Amherst, O.
Waltham Screw Co., Waltham, Mass.
Waterbury Mfg. Co., Waterbury, Conn.
Western Automatic Mach. Screw Co., Elyria, O.
Wire Goods Co., 20 Union, Worcester, Mass.
Worcester Machine Screw Co., Worcester,
Young Bros., Forestville, Conn. Mass.

## 10178— Screw Plates

(See also Stocks & Dies)

**AMERICAN TAP & DIE CO. ("Adamantine"),** Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Greenfield, Mass.
Boker, Hermann & Co., 101 Duane, New York.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co. ("Derby," "Reece's New"), Derby Line, Vt.
Canedy-Otto Mfg. Co., Chicago Heights, Ill.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. ("Carpenter's"), Pawtucket, R. I.
Champion Blower & Forge Co., Lancaster, Pa.
Conant & Donelson Co. ("Little David"), Conway, Mass.
Eastwood Wire Mfg. Co. (Rolled Brass), Belleville, N. J.
Elterich, Chas., 177 Grand, New York
Hart Mfg. Co. ("Duplex"), Cleveland, O.
Holroyd & Co. ("Holroyd"), Waterford, N. Y.
King, J. M. Co. (Inc.), Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE CO.** ("No. 1, A, B, C, D & E"), New Bedford, Mass. (See adv. index, end of book)
Oster Mfg. Co., Cleveland, O.
Pawtucket Mfg. Co., Pawtucket, R. I.
Polk, A. J. & Son ("Common Sense"), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SMART, A. J. MFG. CO., ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
Superior Tap Co., Charlestown, N. H.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co. ("Reece" & Hercules" Full Mounted), Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Lightning," "Green River," Style X), Greenfield, Mass.
Winter Bros., Wrentham, Mass.

## 10178a—Screw Plates (Automobile)

**WELLS BROS. CO., ("Little Giant").** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 10179—Screw Polishing (Flexible Shaft)

**COATES CLIPPER MFG. CO., Wor**cester, Mass. (See adv. index, end of book)

## 10179a—Screw Tops (Bottle)

Wheeling Stamping Co., Wheeling, W. Va.

## 10180— Screws (Bed)

Kansas City Bolt & Nut Co., Kansas City, Mo.
Shelton Co., Shelton, Conn.

## 10181— Screws (Bench)

(See Screws, Hand)

## 10182— Screws (Bibb)

Hays Mfg. Co., Erie, Pa.
Steele & Johnson Mfg. Co., Waterbury, Conn.

## 10183— Screws (Bicycle)

**ATLAS BOLT & SCREW CO., Mar**quette, opp. Hamilton av, N E, Cleveland, Ohio
Chicago Screw Co. (Iron or Brass), 1026 S Homan av, Chicago, Ill.
Hartford Machine Screw Co., Hartford, Conn.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
National Screw & Tack Co., Cleveland, O.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
Western Automatic Mach. Screw Co., Elyria, O

## 10184—Screws (Brass, Copper & Bronze)

American Pin Co. (Brass Only), Waterbury, Conn.
American Screw Co., Providence, R. I.
Blake & Johnson Co., Waterbury, Conn.
Bridgeport Brass Co. (To Order Only), Bridgeport, Conn.
Columbia Screw Co. (Gimlet Pointed), 106th & Cottage Grove av, Chicago, Ill.
**DETROIT SCREW WORKS, Detroit,** Mich. (See adv. index, end of book)
Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hubbell, Harvey, Bridgeport, Conn.
**HUNGERFORD, U. T. BRASS & COP**per Co. (All Kinds), 497 Pearl, New York
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Michigan Screw Co., Lansing, Mich.
**NATIONAL-ACME MFG. CO. (Brass** Only), 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
National Screw & Tack Co. (Brass Only), Cleveland, O.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Reading Hardware Co., Reading, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., St. Louis, Mo.
Scoville Mfg. Co. (Brass only), Waterbury, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Waltham Screw Co., Waltham, Mass.
Waterbury Mfg. Co. (Brass Only), Waterbury, Conn.
Welch, T. F. Co., 55 Sudbury, Boston, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio

## 10185—Screws (Brass Machine)

American Screw Co., Providence, R. I.
**ATLAS BOLT & SCREW CO., Mar**quette, opp. Hamilton av, N E, Cleveland, Ohio
Chicago Nut Co., 671 W Jackson boul, Chicago, Ill.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
**HUNGERFORD, U. T. BRASS & COP**per Co., 497 Pearl, New York
Michigan Screw Co., Lansing, Mich.
Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
Parham & Lawser, 712 Cherry, Phila., Pa.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Progressive Mfg. Co., Torrington, Conn.
Reading Screw Co., Norristown, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Reynolds & Co., New Haven, Conn.
St. Louis Screw Co., St. Louis, Mo.
Standard Screw Co., 6 Madison, Chicago, Ill.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Waltham Screw Co., Waltham, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio
Young Bros., Forestville, Conn.

## 10185a—Screws (Brass & Iron Machine)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

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## 10186–Screws (Building Movers')

Boston Bolt Co., Boston, Mass.
New London Vise Works, New London, Conn.

## 10187– Screws (Can)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Consolidated Fruit Jar Co. ("Chace," etc.), New Brunswick, N. J.
Delphos Mfg. Co., Delphos, O.
Hero Mfg. Co., Gaul & Adams, Phila., Pa.
Ohio Lantern Co., Tiffin, O.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

## 10188–Screws (Cap & Set)

Allen Mfg. Co. ("Allen" Patent Safety Set Screws), Hartford, Conn.
Anthony Screw Co., Worcester, Mass.
**ATLAS BOLT & SCREW CO., Mar-**quette, opp. Hamilton av, N E, Cleveland, Ohio
Boston Bolt & Iron Co., Boston, Mass.
Chicago Nut Co., 671 W Jackson boul, Chicago, Ill.
Chicago Screw Co. (Iron & Steel), 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Corbin Screw Corporation (Also Knurled Set etc.), New Britain, Conn.
Critchley Machine Screw Co., Worcester, Mass.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Eastern Bolt & Nut Co., Providence, R. I.
Electric Welding Products Co., Cleveland, O.
Ferry Cap & Set Screw Co. (Steel), Cleveland, O.
Greenlie, Wyatt & Co., 499 Water, New York
Hall's, Samuel Sons (Milled), 229 W. 10th, New York
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Hart, H. C. Mfg. Co. ("Hart", Hollow Cap Screw), Unionville, Conn.
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm, H. Mfg. Co. (Oval, Flat, Counter Sunk, Square, Hexagon, Buton & French Head), Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoopes & Townsend Co., 1130 Buttonwood, Phila., Pa.
Hope, Wm. H. & Co., Lowell, Mass.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co. (Set), Cleveland, O.
Michigan Screw Co., Lansing, Mich.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)
Niagara Screw Co., Buffalo, N. Y.
Payne's Bolt Works, San Francisco, Cal.
Pawtucket Mfg. Co., Pawtucket, R. I.
Peninsular Milled Screw Co., Detroit, Mich.
Penn Hardware Co., Reading, Pa.
Penna. Shafting Co., Spring City, Pa.
Perry-Fay Mfg. Co., Elyria, O.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Reynolds & Co. (Square, Round & Hex Head), New Haven, Conn.
Rochester Machine Screw Co., Rochester, N. Y.
Rhode Island Tool Co., Providence, R. I.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsell & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
St. Louis Screw Co., St. Louis, Mo.
Screw Machine Products Corporation, Providence, R. I.
Upson Nut Co., Unionville, Conn., & Cleveland, O.
Waltham Screw Co., Waltham, Mass.
Western Automatic Mach. Screw Co., Elyria, O.
Worcester Mach. Screw Co., Worcester, Mass.
Young Bros., Forrestville, Conn.

## 10189– Screws (Closet)

(See Screws, Plumbers')

## 10190–Screws (Coach & Lag)

(See also Screw Manufacturers, Wood)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Armstrong & Parker, 361 North, Baltimore, Md.
Boston Bolt Co., Boston, Mass.
Buffalo Bolt Co., Buffalo, N. Y.
Central City Bolt Co., Syracuse, N. Y.
Chicago Nut Co., 671 W Jackson boul, Chicago, Ill.
Clark Bros Bolt Co., Milldale, Conn.
Colorado Fuel & Iron Co., Denver, Col.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Cooke, Asa Co., Hartford, Conn.
Corbin Screw Corporation (Gimlet-Pointed etc.), New Britain, Conn.
Dietrich Bros., 344 North, Baltimore, Md.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Graham Nut Co., Pittsburg, Pa.
Greenlie, Wyatt & Co., 499 Water, New York
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Hall's, Samuel Sons, 229 W 10th, New York
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Haskell, Wm. H. Mfg. Co. (Gimlet Pointed) Pawtucket, R. I.
Hoopes & Towsend Co., 1330 Buttonwood.
Hubbard & Co., Pittsburg, Pa. Phila, Pa.
Kansas City Bolt & Nut Co. (Coach), Kansas City, Mo.
Lake Erie Iron Co. (Also Gimlet Pointed Coach), Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanz, M. & Sons (Cone & Gimlet Pointed Lag), Pittsburg, Pa.
**McCABE HANGER MFG. CO., 425 W.** 25th, New York. (See adv. index, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pitts-**burg, Pa. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
National Supply Co. (Coach Gimlet Point), Baltimore, Md.
Neely Nut & Bolt Co. (Lag), Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
Oliver Iron & Steel Co. (Gimlet Pointed, etc.) Pittsburg, Pa
Parker, Chas. Co., Meriden, Conn.
Pawtucket Mfg. Co. (Gimlet Point), Pawtucket R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Pottsville Bolt Co., Pottsville, Pa.
Republic Iron & Steel Co. (Gimlet Pointed), Pittsburg, Pa.
Reynolds & Co., New Haven, Conn.
Rhode Island Tool Co. (Gimlet Pointed), Providence, R. I.
Rockford Bolt Co., Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Shelton Co., Shelton, Conn.

## 10191– Screws (Collar)

Anthony Screw Co., Worcester, Mass.
**ATLAS BOLT & SCREW CO., Mar-**quette, opp. Hamilton av, N E, Cleveland, Ohio
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Columbia Screw Co. (Gimlet Pointed), 106th & Cottage Grove av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Critchley Machine Screw Co., Worcester, Mass.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Michigan Screw Co., Lansing, Mich.
**NATIONAL - ACME MFG. CO., 7500** Stanton av, S E, Cleveland O. (See adv. index & branch offices, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I.
Philadelphia Machine Screw Works (Also for Electrical Trade), Race & Sheridan, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Waltham Screw Co., Waltham, Mass.
Western Automatic Mach. Screw Co., Elyria, O.
Worcester Mach. Screw Co., Worcester, Mass.

## 10192– Screws (Dowel)

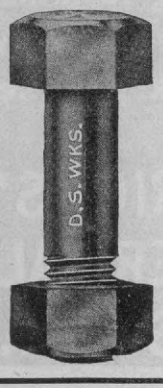
(See Screws, Wood)

## 10192a– Screws (Drive)

(See Screws, Wood)

## 10193–Screws for Electrical Trade

American Pin Co., Waterbury, Conn.
**DETROIT SCREW WORKS (Collar,** etc.), 348 Franklin, Detroit, Mich. (See adv. index, end of book)
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)
Philadelphia Machine Screw Works (Collar, etc.), Race & Sheridan, Phila., Pa.
Screw Cutting Co. of America, Phila, Pa.
Screw Machine Products Corporation, Providence, R. I.
Waltham Screw Co., Waltham, Mass.
Western Automatic Machine Screw Co., Elyria, Ohio


DETROIT SCREW WORKS

MANUFACTURERS OF

SET, CAP and MACHINE SCREWS, TAPER PINS, COUPLING BOLTS, STUDS, NUTS, Etc.

SCREW MACHINE PRODUCTS,—STEEL AND BRASS

AUTOMOBILE, ENGINE AND MACHINERY PARTS, HARDENED AND GROUND WORK A SPECIALTY.

SEND US YOUR BLUE PRINTS FOR ESTIMATE.

DETROIT, MICH.


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## 10194—Screws (German Silver)

Blake & Johnson Co., Waterbury, Conn.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)
Parham & Lawser, 712 Cherry, Phila., Pa.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Waltham Screw Co., Waltham, Mass.
Western Automatic Mach. Screw Co., Elyria, O.

## 10195— Screws (Gib)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S. E, Cleveland, O. (See adv. index & branch offices, end of book)
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Reynolds & Co., New Haven, Conn.
St. Louis Screw Co., St. Louis, Mo.
Waltham Screw Co., Waltham, Mass.
Western Automatic Mach. Screw Co., Elyria, O.

## 10196— Screws (Hand)

Aldrich, Wm. K. & Co., Lowell, Mass.
Bliss, R. Mfg. Co., Pawtucket, R. I.
Chapin-Stephens Co., Pawtucket, R. I.
Chicago Screw Co. (Improved "Reno" Wrought Iron Screws with Metal Bearing), 1026 S Homan av, Chicago, Ill.
Christiansen, C., 2219 Grand av, Chicago, Ill.
**DETROIT SCREW WORKS (Iron** with Metal Bearings), 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Grand Rapids Hand Screw Co., Grand Rapids, Mich.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index end of book)
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Illinois Iron & Bolt Co. (Wrought Iron), Carpentersville, Ill.
New London Vise Works, New London, Conn.
Ohio Tool Co. (Iron & Wood), Columbus, O.
Peck, Stow & Wilcox Co. (Wrought Iron Bench), Southington, Conn.
Reading Hardware Co., Reading, Pa.
**ROCK ISLAND MFG. CO., ROCK** Island, Ill. (See adv. index & branch offices, end of book)
Sandusky Tool Co. (Wood), Sandusky, O.
Sargent & Co. (Iron & Wood), New Haven, Conn.
**TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)**
Western Automatic Mach. Screw Co., Elyria, O.

## 10197—Screws (Hand Rail)

American Screw Co., Providence, R. I.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Humason & Beckley Mfg. Co., New Britain, Conn.
Jenckes, E. Mfg. Co., Worcester, Mass.
Sargent & Co., New Haven, Conn.
Shelton Co., Shelton, Conn.
Wire Goods Co., Worcester, Mass.

## 10198—Screws (Hand Saw)

Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Sargent & Co., New Haven, Conn.

## 10199— Screws (Hanger)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Columbia Screw Co. (Gimlet Pointed), 106th & Cottage Grove av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Kansas City Bolt Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
National Supply Co., Baltimore, Md.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Pawtucket Mfg. Co., Pawtucket, R. I.
Peninsular Milled Screw Co., Detroit, Mich.
Shelton Co., Shelton, Conn.
Western Automatic Mach. Screw Co., Elyria, O.

## 10200—Screws (Headless)

(See Screws, Wood)

## 10201—Screws (Hook & Eye)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

## 10202—Screws (House Raising)

(See Screws, Building Movers')

## 10203— Screws (Jack)

(See also Jacks, Screw; also Jacks, Ratchet)
American Skein & Foundry Co., Racine, Wis.
Barber Mfg. Co., Ashtabula, O.
Boston Bolt & Iron Co., Boston, Mass.
**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Illinois Iron & Bolt Co. ("I. I. & B. Co."), Carpentersville, Ill.
McLagon Foundry Co., New Haven, Conn.
Miller's Falls Co., 28 Warren, New York
**STARRETT, L. S. CO. ("Little** Giant"), Athol, Mass. (See adv. index & branch offices, end of book)
Southern Skein & Foundry Co., Chattanooga, Tenn.
Swett, A. L. Iron Works (Ratchet, etc.), Medina, N. Y.
**WALSH'S SONS & CO., Harrison, N.** J. (See adv. index, end of book)

## 10204—Screws (Jack, Cable Reel)

Illinois Iron & Bolt Co. ("I. I. & B. Co."), Carpentersville, Ill.

## 10205—Screws (Jewelers')

(See Screws, Watch & Clock)

## Screws (Lag)

(See Screws, Coach & Lag)

## 10206— Screws (Lead)

Screw Cutting Co. of America, Phila, Pa.

## 10207—Screws (Lock Cap)

Reed & Prince Mfg. Co., Worcester, Mass.

## 10207a—Screws (Long)

**KEMP, E. M. Co. (Extra Heavy** Pipe), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)

## 10208—Screws (Machine)

American Screw Co., Providence, R. I.
Atlantic Screw Works (David Tilton), Hartford, Conn.
**ATLAS BOLT & SCREW CO., Mar-** quette, opp. Hamilton av, N E, Cleveland, Ohio
Chicago Nut Co., 671 W Jackson boul, Chicago, Ill.
Chicago Screw Co. (Iron & Brass), 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Cleveland Machine Screw Co., Cleveland, O.
Columbia Screw Co., 106th & Cottage Grove av Chicago, Ill.
Corbin Screw Corporation (Brass or Iron), New Britain, Conn.
Critchley Machine Screw Co., Worcester, Mass.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index
**Draper Co., Hopedale, Mass. end of book)**
Eastern Machine Screw Corp., New Haven, Conn.
Ferry Cap & Set Screw Co. (Steel & Brass), Cleveland, O.
Gary Bolt & Screw Co., Gary, Ind.
Hall's, Sam'l Sons, 229 W 10th, New York
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Hampden Machine Screw Co., Springfield, Mass.
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoopes & Townsend Co. 1330 Buttonwood, Philadelphia, Pa.
Hope, Wm. H. & Co. (Milled), Lowell, Mass.
Hubbel, Harvey (Inc.), Bridgeport, Conn.
Kirk-Latty Mfg. Co., Cleveland, O.
Michigan Screw Co., Lansing, Mich.
Miles, Franklin S. Co. (Brass & Iron), 205 Quarry, Phila., Pa.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
National Screw & Tack Co., Cleveland, O.
National Sewing Machine Co., Belvidere, Ill.
New Haven Machine Screw Co., New Haven, Conn.
Ohio Nut & Bolt Co., Berea, O.
Parham & Lawser, 712 Cherry, Phila., Pa.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Progressive Mfg. Co., Torrington, Conn.
Reading Screw Co. (Brass & Iron), Norristown, Pa.
Reed & Curtis Machine Screw Co., Worcester, Mass.
Reed & Prince Mfg. Co. (Brass & Iron), Worcester, Mass.
Reynolds & Co., New Haven, Conn.
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. & Rock Falls, Ill.
Russell & Erwin Mfg. Co., New Britain, Conn.
St. Louis Screw Co., St. Louis, Mo.
Screw Machine Products Corporation, Providence, R. I.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Universal Machine Screw Co., Hartford, Conn.
Waltham Screw Co., Waltham, Mass.
Western Automatic Mach. Screw Co., Elyria, Ohio
Worcester Mach. Screw Co., Worcester, Mass.
Young Bros. (From Sample Only), Forestville, Conn.

## 10208a—Screws (Ore Washer)

American Iron & Steel Mfg. Co., Lebanon, Pa.

## 10209—Screws (Plated & Lacquered)

(See Screws, Wood; also Screws, Brass, Etc.)

## 10210—Screws (Plumbers')

American Pin Co. (Brass & Iron), Waterbury, Conn.
Ansonia Mfg. Co., Ansonia, Conn.
**BERNZ, OTTO (Closet, etc.), 21 Ash-** land av, Newark, N. J. (See adv. index, end of book)
Chicago Nut Co., Chicago, Ill.
Climax Specialty Co., Ann Arbor, Mich.
Columbia Screw Co., Chicago, Ill.
Famous Mfg. Co., Grand Rapids, Mich.
Frost Mfg. Co. (Brass Closet), Kenosha, Wis.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Glauber Brass Mfg. Co., Cleveland, O.
Hays Mfg. Co. (Brass Trap, etc.), Erie, Pa.
Ideal Mfg. Co., Detroit, Mich.
New England Screw Co., Boston, Mass.
Progressive Mfg. Co., Torrington, Conn.
Russell, Jno. M. Mfg. Co., Naugatuck, Conn.
Sanitary Co. (Brass), Cleveland, O.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.
Winkley Co., Detroit, Mich.
Wolverine Brass Works (Closet, etc.), Grand Rapids, Mich.

## 10211—Screws (Power, Lead & Feed)

Screw Cutting Co. of America (Any Length, Diameter & Pitch), 17th & Sedgley av, Phila., Pa.

## 10212— Screws (Press)

American Skein & Foundry Co. (For Pressing Cider, Tobacco, Cheese, etc.), Racine, Wis.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Illinois Iron & Bolt Co. (For Pressing Cider Tobacco, Cheese, etc.), Carpentersville, Ill.

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## 10212a– Screws (Rail)

Humason & Beckley Mfg. Co., New Britain, Conn.

## 10213–Screws (Rigging)

Wilcox, Crittenden & Co., Middletown, Conn.

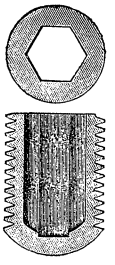
## 10214– Screws (Saw)

Disston, H. & Sons (Inc.), Tacony, Phila., Pa.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
National Saw Co., Newark, N. J.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## Screws (Set)

(See Screws, Cap & Set)

## 10215–Screws (Set, Hollow)



**HAMMACHER, SCHLEMMER & CO.,** Controlling Agents, 133 4th av, New York

AGENTS

Ga....Atlanta.....Cotton States Belting & Supply Co.
Ill....Chicago.....Harris, Samuel & Co.
Ind...Indianapolis.Vonnegut Hardware Co.
Ia....Muscatine...Barry Mfg. Co.
**Md...Baltimore...Adt, John B.**
Mass..Boston.....Chase, Parker & Co.
Mich..Detroit.....Strelinger, Chas. A. Co.
Mich..Gr'd Rapids.Foster, Stevens & Co.
Mo....St. Louis...St. Louis Machinists' Supply Co.
Mo....Kansas City.Brunner Metal & Machinists' Supply Co.
N. Y..Albany.....Albany Hardware & Iron Co.
N. Y..Buffalo.....Beals & Co.
N. Y..Rochester...Ernst, Louis & Sons
N. Y..Syracuse....Syracuse Supply Co.
N. C..Charlotte....Textile Mill Supply Co.
Ohio..Cincinnati...Boebinger Hardware Co.
Ohio..Cleveland...Strong, Carlisle & Hammond Co.
Ohio..Dayton.....Patterson Tool & Supply Co.
Pa....Phila.....Maddock & Co.
Pa....Pittsburg....Somers, Fitler & Todd Co.
Wash.Seattle.....Whiton Hardware Co.
W. Va.Huntington..Banks Supply Co.
Wis...Milwaukee...Packard, O. L. Machinery Co.
Can...Ont.Toronto.Aikenhead Hardware Co.

## 10216– Screws (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain. Conn.
Sargent & Co., New Haven, Conn.

## 10217–Screws (Side Knob)

Reed & Prince Mfg. Co., Worcester, Mass.

## 10218– Screws (Skein)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Foster Bolt & Nut Mfg. Co., Cleveland, O.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co., Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pittsburg,** Pa. (See adv. index & branch offices, end of book)
National Supply Co., Baltimore, Md.

## 10219– Screws (Stage)

Brewer Bros. (Steel), 614 Filbert, Phila., Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.

## 10220–Screws (Stop Bead)

Lawrence Bros., Sterling, Ill.
National Mfg. Co. ("One Piece"), Sterling, Ill.

## 10221– Screws (Stud)

Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Haskell Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Michigan Screw Co., Lansing, Mich.
Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Reynolds & Co., New Haven, Conn.
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., St. Louis, Mo.
Waltham Screw Co., Waltham, Mass.
Western Automatic Mach. Screw Co. Elyria, O.

## 10221a–Screws (Telegraph Pole)

American Shovel & Stamping Co., Lorain, O.

## 10222– Screws (Thumb)

Billings & Spencer Co., Hartford, Conn.
Chicago Screw Co. (Drop Forge & Malleable Iron), 1026 S Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co. (Drop Forged), Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
Neumann & Alling, New Britain, Conn.
Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Rhode Island Tool Co., Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Rockford Bolt Co., Rockford, Ill.
St. Louis Screw Co., St. Louis, Mo.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Welch, Thos. F. Co. (Brass), 55 Sudbury, Boston, Mass.
Western Automatic Mach. Screw Co., Elyria, Ohio

## 10223–Screws (Tobacco)

Bates', Jas. Sons, Baltimore, Md.
Danbery Foundry Co. ("Parker" Stationary), Ripley, O.

## 10224–Screws (Watch & Clock)

Waltham Screw Co., Waltham, Mass.

## 10225–Screw (Water Closet)

(See Screws, Plumbers')

## 10226– Screws (Wood)

American Screw Co., Providence, R. I.
Atlantic Screw Works (Brass & Bronze) (David Tilton, Prop.), Hartford, Conn.
Brooks, M. S. & Sons (Dowel, Wing), Chester, Conn.
Colebrookdale Iron Co., Pottstown, Pa.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Continental Wood Screw Co., New Bedford, Mass.
Corbin Screw Corporation, New Britain, Conn.
Disston, Henry & Sons (Inc.) Tacony, Phila.,
Eagle Lock Co., Terryville, Conn. Pa.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Humason & Beckley Mfg. Co., New Britain, Conn.
**NATIONAL-ACME MFG. CO., Cleveland, O.** (See adv. index, end of book)
National Lock Co. (For Furniture Mfrs.), Rockford, Ill.
National Screw & Tack Co. (Iron & Brass), Cleveland, O.
Parker, Chas. Co., Meriden, Conn.
Peninsular Milled Screw Co., Detroit, Mich.
Penn Hdw. Co. (Inc.), Reading, Pa.
Reading Screw Co. (Brass & Iron), Norristown, Pa.
Reed & Prince Mfg. Co. (Iron & Brass), Worcester, Mass.
Rogers Screw Co., Providence, R. I.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Screw Machine Products Corporation, Providence, R. I.
Southington Hardware Co., Southington, Conn.
**STAR EXPANSION BOLT CO., 147** Cedar, New York. (See adv. index & branch offices, end of book)
Wire Goods Co., Worcester, Mass.
Wire Hardware Co. (Flat Head), 1824 Besly Court, Chicago, Ill.

## 10227–Screws (Wooden)

Aldrich, Wm. K. Co., Lowell, Mass.
Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Peirce, Wm. E. & Co., Milford, N. H.

## 10228–Scribers (Adjustable, Etc.)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10229– Scribes (Timber)

Bemis & Call Hardware & Tool Co., Springfield, Mass.
Lufkin Rule Co., Saginaw, Mich.

## 10230–Scrubbers (Floor)

Bosley, D. W. Co. (Rubber), 1123 Fulton, Chicago, Ill.

## 10231–Scrubbers & Tanks

**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## Sculptors (Architectural)

(See Modelers & Sculptors, Architectural; also Carvers, Stone)

## 10232– Scythe Mfrs.

American Axe & Tool Co., Glassport, Pa.
Columbian Cutlery Co. (Grass, Weed & Bush), Reading, Pa.
Dunn Edge Tool Co., Oakland, Me.
Emerson Edge Tool Co., East Lebanon, N. H.
Emerson-Stevens Mfg. Co., Oakland, Me.
Kelly Axe Mfg. Co., Charleston, W. Va.
Nolin Mfg. Co., Skowhegan, Me.
North Wayne Tool Co. ("C. C. Brooks'," "Little Giant," "Be Ve Be"), Hallowell, Me.
Rixford Mfg. Co. East Highgate, Vt.
Sibley Scythe Co., North Newport, N. H.
Wadsworth, David & Son, Auburn, N. Y.
Winsted Mfg. Co. (Grass, Grain, Bush, Bramble, Weed & Lawn), Winsted, Conn.

## 10233– Scythe Snaths

American Fork & Hoe Co., Cleveland, O.
Benton Mfg. Co., Charlotte, Mich.
Derby & Ball, Bellows Falls, Vt.
Edwards, W. R., Charlemont, Mass.
Emerson-Stevens Mfg. Co., Oakland, Me.
Fenn Mfg. Co., Charlotte, Mich.
Iowa Farming Tool Co., Fort Madison, Ia.
Owosso Mfg. Co., Owosso, Mich.
Seymour Mfg. Co., Seymour, Ind.

## 10234–Seals (Case & Box)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**CARY MFG. CO., ("Cary's" Patented** Protective Seals), 29 Roosevelt, New York (See adv. index, end of book)

## 10235– Seals (Lead)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**American Smelting & Refining Co., Cincinnati, Ohio**
Chadwick-Boston Lead Co., Boston, Mass.

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**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hiertz, Theo. & Son, St. Louis, Mo.
National Selling Co. (For Cigar Mfrs.), Allentown, Pa.

## 10236—Seals & Sealing Presses (Car)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)
American Smelting & Refining Co. (Lead), Cincinnati, O.
Automatic Seal Co., Detroit, Mich.
Barnard Stamp Co., 311 Olive, St. Louis, Mo.
Brooks, E. J. & Co., 227 Fulton, New York
Buffalo Machine Mfg. Co., Buffalo, N. Y.
Chadwick-Boston Lead Co. (Lead Car Seals Only), Boston, Mass.
Chicago Car Seal Co., 108 N Green, Chicago, Ill.
Crescent Seal & Stamp Co., Cambridge, O.
Edgar & Klauman Car Seal Co. (Seals Only), Iola, Kans.
Handlan-Buck Mfg. Co. ("Handlan's"), 212 N 3d, St. Louis, Mo.
Hanson, C. H. (Seals & Presses), 44 Clark, Chicago, Ill.
Hiertz, Theo. & Son (Lead Car Seals), St. Louis, Mo.
Howlett, J. & Co. (Lead Car Seals), Irvington, N. J.
Independent Mfg. Co., Muskegon, Mich.
International Seal & Lock Co., Hastings, Mich.
Keystone Seal & Press Co. ("Keystone", Giant", Bull Dog Presses & "Keystone" "Anchor", "Diamond", "Duplex" Seals), 30 Church, New York
Lehmer, Jos. R., 1212 Farnam, Omaha, Neb.
National Car Seal Co., Hamilton, O.
Northwestern Car Seal Co., 108 N Jefferson, Chicago, Ill.
Parker, T. M., Hartford, Conn.
Porter Safety Seal Co., 1110 W Lake, Chicago, Ill.
Saurbrey, Geo. Car Seal Co. (Hasp & Car Shipping Seals), Columbus, O.
Sigwalt Mfg. Co. (Presses), 188 Madison, Chicago, Ill.
Smith, R. H. Mfg. Co., Springfield, Mass.
Utica Drop Forge & Tool Co. (Presses), Utica, N. Y.

## 10236a—Seals & Sealing Presses (Cigar Makers')

National Selling Co., Allentown, Pa.

## 10237—Seamers (Adjustable Pocket)

Dickey-Grabler Co. (For Sheet Metal), Cleveland, O.

## Searchlights

(See Projectors or Searchlights)

## 10238—Searchlights (Acetylene)

American Acetylene Stove Co. ("Clear View"), Masonic Temple, Minneapolis, Minn.
Badger Brass Mfg. Co. ("Solar"), Kenosha, Wis.
Colt, J. B. Co., 69 Warren, New York
MacLead, Walter & Co., 213 E Pearl, Cincinnati, O.
Twentieth Century Mfg., 19 Warren, New York

## 10238a—Seat Ends (Hollow Metal)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

## 10239— Seating

(See Furniture, School; also Furniture, Church; also Opera Chairs & Assembly Seating)

## Seating (Car)

(See Car Seats, Chairs & Fittings)

## 10240— Seating (Veneer)

Adler Veneer Seat Co., 65 Milton, Brooklyn, N. Y.
Ahnapee Veneer & Seating Co., Algoma, Wis.
Eggers, Fred Veneer Seating Co., Two Rivers, Wis.
Frost's Veneer Seating Co., Sheboygan, Wis.
McKibben, G. N. Mfg. Co. (Also Panels, etc.), So. Norwalk, Conn.
Woodman, Joel H., Hoboken, N. J.

## 10241—Seats (Agricultural Implement)

American Shovel & Stamping Co., Lorain, O.
Avery Stamping Co., Cleveland, O.
Cambria Steel Co. (Pressed Steel), Johnstown, Pa.
Irwin Mfg. Co., Galesburg, Ill.

## 10242— Seats (Bath Tub)

Aetna Mfg. & Plating Co., 313 S Clinton, Chicago, Ill.
Bogert & Hopper Co. (Wooden, also Closet), 162 William, New York
Buffalo Specialty Co. ("The Empire," "Bon Ton," "Climax" & "Universal" Adjustable), Buffalo, N. Y.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Celluvarno Co., Newark, N. J.
Central Specialty Mfg. Co., 508 S Peoria, Chicago, Ill.
Church, C. F. Mfg. Co. ("Snow-White", Pyralin), Holyoke, Mass.
Climax Specialty Co., Ann Arbor, Mich.
Columbus Brass Co., Columbus, Ohio
Edwardsville Brass Co., Edwardsville, Ill.
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Eustis, J. P. Mfg. Co., Cambridge, Mass.
Famous Mfg. Co., Grand Rapids, Mich.
Galard Co. ("Omala"), Newark, N. J.
Hess, Chas. Co. (For Export), 129 Front, New York
Jenkins Mfg. Co., 20 Vesey, New York
Leclaire Mfg. Co., Edwardsville, Ill.
Parker, Chas. Co., Meriden, Conn.
Plumbers' Woodwork Co., Algoma, Wis.
Searls Mfg. Co., Newark, N. J.
Silver & Co., 304 Hewes, Brooklyn, N. Y.
Smith, E. C. Mfg. Co., 224 Washington, Chicago, Ill.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Timberlake, J. B. & Sons, Jackson, Mich.
U. S. Sanitary Mfg. Co. ("29th Century"), Pittsburg, Pa.
Warner, A. H. & Co. ("Eureka", "Monarch"), Bristol, Conn.
Wolverine Brass Works, Grand Rapids, Mich.

## 10242a—Seats (Cable Pole)

**ANDERSON FORGE & MACHINE CO.,** Fairview, Detroit, Mich. (See adv. index, end of book)

## 10243— Seats (Chair)

**AMERICAN VULCANIZED FIBRE** Co. (Fibre), Wilmington, Del. (See adv. index, end of book)
Bockius, F. Leather Co. (Fibre & Imitation & Real Leather), 925 W Chicago av, Chicago, Ill.
Buffalo Decorative Fibre Co. (Fibre), Buffalo, N. Y.
**CONTINENTAL FIBRE CO. (Hard Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
**DIAMOND STATE FIBRE CO., (Hard Fibre),** Elsmere, Del. (See adv. index, end of book)
**DELAWARE HARD FIBRE CO.,** (Hard Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
Munson, Clair Co. (Upholstered Steel Base), Clinton, Ia.
National Seat & Novelty Mfg. Co. (Fibre), Hop River, Conn.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)

## 10244— Seats (Closet)

(See also Plumbers' Woodwork)
Behrer & Co. ("Never-Split"), 81 Beekman, New York
Berger, Edw. W. & Bro. ("Never-Split"), Weehawken, N. J.
Galard Co. ("Omala"), Newark, N. J.
**JOHNS, H. W. MANVILLE CO. "J.-M.,"** Sanitor), 100 William, New York. (See adv. index & branch offices, end of book)
Judd, E. C. B. ("Keystone"), Muskegon, Mich.
Leclaire Mfg. Co., Edwardsville, Ill.
Never Split Seat Co. ("Never Split"), Evansville, Ind.
Peerless Selling Co. ("Don't Worry"), Evansville, Ind.
Pfau Mfg. Co. ("Pfau"), Cincinnati, O.
Standard Sanitary Mfg. Co. ("Ivorite"), Pittsburg, Pa.
Schaefer & Co. ("Never-Slip"), Buffalo, N. Y.
Van Arnam Mfg. Co. ("Samson"), Ft. Wayne, Ind.

## 10245— Seats (Folding)

Bryan Novelty Mfg. Co., Bryan, O.
**RICHARDS - WILCOX MFG. CO.** ("Richards" Folding Buggy), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 10246— Seats (Pole)

Bissell, F. Co. ("Security"), Toledo, O.
Klein, Mathias & Sons ("Klein's"), 562 W Van Buren, Chicago, Ill.
Monroe Electrical Mfg. Co. ("Monroe"), Monroe, Mich.

## 10247— Seats (Valve)

Boyd, James & Bro. (Inc.) (for Pumps), 25th & Wharton, Phila., Pa.
Smeeth-Harwood Co. (For Hot Blast Stoves, Tuyeres & Coolers), 2401 W 22d, Chicago, Ill.

## 10248— Secohmeters

**LEEDS & NORTHUP CO., Stenton av,** Gtn, Phila., Pa. (See adv. index, end of book)

## 10249— Seeders (Beet)

Bateman Mfg. Co. (Drills), Grenloch, N. J.
Caledonia Bean Harevster Works, Caledonia, N. Y.
Columbia Planter Co., Springfield, O.
Deere & Mansur Co. (Drills), Moline, Ill.
Gale Mfg. Co., Albion, Mich.
Moline Plow Co. (Four Row), Moline, Ill.
Parlin & Orendorff Co., Canton, Ill.
Rowell, I. B. Co., Menominee Falls, Wis.

## 10250—Seeders (End Gate)

American Seeding Machine Co., Springfield, Ohio
Bristol & Gale Co., Chicago, Ill.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Engel, J. A. & Co., Peoria, Ill.
Foster & Williams Mfg. Co., Racine, Wis.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Johnson & Field Mfg. Co., Racine, Wis.
Luthy Co., Peoria, Ill.
Meadows Mfg. Co., Pontiac, Ill.
Peoria Drill & Seeder Co. ("Glendale Agitator," "Peoria Agitator"), Peoria, Ill.
Racine Implement Co., Racine, Wis.
Sester Mfg. Co., Peoria, Ill.

## 10251— Seeders (Garden)

Columbia Planter Co., Springfield, O.
Standard Garden Tool Co., Montrose, Ia.

## 10252— Seeders (Grass)

Brown Mfg. Co., Phelps, N. Y.
Fetzer, Wm. Co., Springfield, Ill.
Seeder Mfg. Co., Homer, Mich.
Star Seeder Co., Shortsville, N. Y.
Thompson, O. E. & Son (Hand), Ypsilanti, Mich.

## 10253— Seeders (Raisin)

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Landers, Frary & Clark ("Crown"), New Britain, Conn.

## 10254—Seeders & Sowers

(Seeders; also Sowers)

Allen, S. L. & Co. ("Planet, Jr.," Bean, Pea, etc.), Denckla bldg, Phila., Pa.
American Harrow Co. (Seeders Only), Detroit, Mich.
American Seeding Machine Co. (Broadcast), Springfield, O.
Appleton Mfg. Co. ("Budger" & "Royal"), Batavia, Ill.
Beaver Dam Mfg. Co. ("Ideal"), Beaver Dam, Wis.
Belcher & Taylor Agrl. Tool Co. (Fertilizer "Stevens"), Chicopee Falls, Mass.
Benicia Iron Works ("Gem," "Gorman"), Benicia, Cal.
Caldwell Mfg. Co. (End Gate Seeders), Columbus, Ind.
Columbia Planter Co., Springfield, O.
Cyclone Seeder Co. ("Cyclone," "Chicago" & "Champion, Jr.," Hand Broadcast Seed Sower), Urbana, Ind.
Dowagiac Mfg. Co. (Seeders), Dowagiac, Mich.
Emerson-Brantingham Co., Rockford, Ill.
Fetzer, Wm. Co., Springfield, Ill.
Fond du Lac Implement Co., Fond du Lac, Wis.
Foster & Williams Mfg. Co., Racine, Wis.
Freeman S. & Sons Mfg. Co., Racine, Wis.
Gale Mfg. Co. (Broadcast), Albion, Mich.

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Goodell Co. (Hand), Antrim, N. H.
Hench & Dromgold Co. (Inc.), York, Pa.
Howell, R. R. & Co. (Seeder with Cultivator), Minneapolis, Minn.
Janesville Machine Co., Janesville, Wis.
Johnson & Field Mfg. Co. (Scandinavian Broadcast), Racine, Wis.
Johnston Harvester Co. (Disc Seeder), Batavia, N. Y.
King Drill Mfg. Co., Nebraska City, Neb.
La Crosse Plow Co. (Also Grass Seeder Attachments), La Crosse, Wis.
Luthy & Co. (Also Grass Seeder Attachments), Moline Plow Co., Moline, Ill. Peoria, Ill.
Ohio Rake Co. (Seeders for Disc Harrows), Dayton, O.
Owatonna Mfg. Co., Owatonna, Minn.
Peoria Drill & Seeder Co. ("Columbia," "Cyclone," "Union, Jr."), Peoria, Ill.
Reed Mfg. Co. (Broadcast), Kalamazoo, Mich.
Rowell, I. B. Co., Menominee Falls, Wis.
Rowell, J. S. Mfg. Co. (Also Combined Seeder & Drill), Beaver Dam, Wis.
Seeder Mfg. Co., Homer, Mich.
Star Seeder Co., Shortsville, N. Y.
Sterling Mfg. Co. ("Sterling"), Sterling, Ill.
Van Brunt Mfg. Co. (Broad Cast), Horicon, Wis.
Wayne Works, Richmond, Ind.
Whitman Agricultural Co. (Broadcast), St. Louis, Mo.

## Segments (Commutator)

(See Bars, Commutator)

## Self-Closing Work

(See Cocks & Bibbs, Self-Closing)

## 10255—Self-Feeders & Band Cutters for Threshers

Advance Thresher Co., Battle Creek, Mich.
Avery Co. ("Avery"), Peoria, Ill.
Buffalo Pitts Co., Buffalo, N. Y.
Case, J. I. Thresher Co., Racine, Wis.
Farquahar, A. B. Co., York, Pa.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co., Richmond, Ind.
Heineke & Co., Springfield, Ill.
Holt Mfg. Co. (Chain), Stockton, Cal.
Howell, R. R. & Co., Minneapolis, Minn.
Huber Mfg. Co., Marion, O.
Hunt, Gilbert Co., Walla Walla, Wash.
Jackson, Byron Machine Works (Self Feeder), San Francisco, Cal.
Maplebay Mfg. Co., Crookston, Minn.
Maytag Co. ("Parsons"), Newton, Ia.
Minneapolis Threshing Machine Co., Minneapolis, Minn.
Monarch Self Feeder Co., Cedar Falls, Ia.
Nichols & Shepard Co., Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Robinson & Co., Richmond, Ind.
Rumley, M. Co., Laporte, Ind.
Russell & Co., Massilon, O.
Sandwich Mfg. Co., Sandwich, Ill.
Westinghouse Co., Schenectady, N. Y.
Wood Bros. Thresher Co., Des Moines, Ia.

## 10256— Self-Starters

**CUTLER-HAMMER MFG. CO.** (Alternating and Direct Current), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO.**, Schenectady, N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. Co.**, Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 10257—Semaphore (Train Order)

Barney & Smith Car Co. ("The Harrington"), Dayton, O.

## 10258— Separators (Air)

American Pulverizer Co. ("American" For All Dry Materials), St. Louis, Mo.

## 10259—Separators (Asphalt)

Coldwell-Wilcox Co., Newburgh, N. Y.

## 10260—Separators (Barley)

Huntley Mfg. Co. ("Monitor" for Brewers & Malsters), Silver Creek, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.

## 10261—Separators (Bean)

Avery, B. F. & Sons, Louisville, Ky.
Bacon Mfg. Co., Pontiac, Mich.

## 10262—Separators (Cement, Plaster, Etc.)

Emerick, Geo. S., Nazareth, Pa.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)

## 10263—Separators (Centrifugal)

American Tool Works Co. ("American," for Separating Oil From Metal Chips & Turnings, etc.), Cincinnati, O.
American Tool & Machine Co. (For Separating Oil from Metal Chips & Turnings), 109 Beach, Boston, Mass.
Curtis, Albert B. (For Separating Oil From Steel Chips, etc.), Worcester, Mass.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
National Separator & Machine Co. (Combined Oil Separator & Filter, for Separating Oil from Metal Chips, etc.), Concord, N. H.
Worcester Oil Extractor Co. (For Separating Oil Chips & Turnings), Worcester, Mass.

## 10264—Separators (Coal)

Anthracite Separator Co. ("Spiral," Automatic in Action), Hazleton, Pa.

## 10265—Separators (Cotton Seed)

New Winona Mfg. Co., Winona, Minn.
Reuter-Jones Mfg. Co. (Cotton Seed Oil), St. Louis, Mo.
Sherman Iron Works, Sherman, Tex.
Van Winkle, E., Gin & Machine Works, Atlanta, Ga.

## 10265a—Separators (Cracked Corn)

**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

## 10266—Separators (Cream)

American Separator Co., Bainbridge, N. Y.
Arras Cream Separator Co. ("Arras"), Bluffton, O.
Atlantic Stamping Co. ("Atlantic"), Rochester, N. Y.
Bluffton Cream Separator Co., Bluffton, O.
Borden Automatic Cream Separators, Middle Granville, N. Y.
Buckeye Cream Separator Co., Oberlin, O.
Burrell, D. H. & Co. ("Simplex," Centrifugal Hand Power), Little Falls, N. Y.
Chapman, C. L., Cream Separator Works, Erie, Pa.
Cleveland Cream Separator Co., Cleveland, O.
Creamery Package Mfg. Co., 61 W Kinzie, Chicago, Ill.
Dairy Cream Separator Co. ("Dairy Queen"), Lebanon, Ind.
Davis Cream Separator Co. ("Davis" Centrifugal), 216 N Clinton, Chicago, Ill.
De Laval Separator Co. (Centrifugal), 165 B'way, New York
Diller Mfg. Co., Bluffton, O.
Elgin Mfg. Co., Elgin, Ill.
Empire Cream Separator Co. ("Empire"), Bloomfield, N. J.
Fisk, E. W., Newark, N. Y.
Galloway, Wm. Co., Waterloo, Ia.
**INTERNATIONAL HARVESTER CO.** of America ("Bluebell," "Dairymaid" Centrifugal), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Iowa Dairy Separator Co. ("Iowa Dairy"), Centrifugal), Waterloo, Iowa
Jones, Frank L., Utica, N. Y.
King Drill Mfg. Co., Nebraska City, Neb.
Lawrence, Bostwick Mfg. Co., Phelps, N. Y.
Lawrence Mfg. Co., Toledo, O.
Lisk Mfg. Co. (Ltd.) ("Lisk" Anti Rust X X Charcoal Plate), Canandaigua, N. Y.
Lisle Mfg. Co. ("Monarch" Hand), Clarinda, Iowa
Lowell Specialty Co. ("Puritan," "Michigan" & "King"), Lowell, Mich.
Mosgley & Pritchard Mfg. Co., Clinton, Ia.
National Dairy Machine Co. ("National" Centrifugal, etc.), Goshen, Ind.
National Enameling & Stamping Co. ("National"), 374 B'way, New York
Omega Separator Co. ("Omega" Centrifugal), Lansing, Mich.
Peerless Cream Separator Co. ("Peerless" Centrifugal), Waterloo, Ia.
Polar Creamery Co., Lafayette, Ind.
Reid, A. H., Creamery & Dairy Supply Co. ("Reid" Steam Turbine & Disc Bracket Hand), 69th & Haverford, Phila., Pa.
Bluffton Cream Separator Co., Bluffton, O.
Sharpless Separator Co. (Tubular), West Chester, Pa.
Smith Mfg. Co. ("Great Western"), 158 E Harrison, Chicago, Ill.
Superior Cream Separator Co., Detroit, Mich.
Vermont Farm Machine Co. ("United States"), Bellows Falls, Vt.
Weber-Kirch Mfg. Co., Keokuk, Ia.
Westerfield Motor Co., Anderson, Ind.
Wheeler Mfg. Co., Syracuse, N. Y.

## 10267—Separators (Cream, Centrifugal)

(See Separators, Cream, with the word Centrifugal following their name)

## 10268—Separators (Dust)

Buffalo Forge Co., Buffalo, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co., Indianapolis, Ind.
Spicer Mfg. Co., New Philadelphia, O.
Sterling Blower & Pipe Mfg. Co., Hartford, Conn.

## 10269—Separators (Flax)

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

## 10270—Separators (Gas & Oil)

**PETROLEUM IRON WORKS CO.,** ("Washington Automatic), Sharon, Pa. (See adv. index & branch offices, end of book)

## 10271—Separators (Grain)

Advance Thresher Co., Battle Creek, Mich.
American Grain Separator Co., Minneapolis, Minn.
Archbold Grain Separator Co., Archbold, O.
Aultman & Taylor Machinery Co. ("New Century"), Mansfield, O.
Avery Mfg. Co., Peoria, Ill.
Closz & Howard Mfg. Co., Webster City, Ia.
Connor, J. W. & Son ("Overshot," Separator & Cleaner), Orangeville, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd), York, Pa.
Geiser Mfg. Co. (The New Peerless), Waynesboro, Pa.
Grain Separator Co., Sparta, Wis.
Johnson & Field Mfg. Co. (Dustless), Racine, Wis.
Hoosier Mfg. Co., New Castle, Ind.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Cranson" & "Monitor," Scouring, Polishing & Separating, etc.), Silver Creek, N. Y.
Invincible Grain Cleaner, Silver Creek, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
Owens, J. L. Co. (Also Flax), Minneapolis, Minn.
Prairie Queen Mfg. Co., Newton, Kan.
Prinz & Rau Mfg. Co. ("Prinz" Automatic), 659 E Water, Milwaukee, Wis.
Reeves & Co. (Compound), Columbus, Ind.
Robinson & Co., Richmond, Ind.
Rumely, M. Co., La Porte, Ind.
St. Albans Fdry. & Implt. Co., St. Albans, Vt.
**SPROUT, WALDRON & CO., Muncy,** Pa. (See adv. index, end of book)

## 10272—Separators (Iron & Brass)

(See Separators, Magnetic)

## 10273—Separators (Lime & Ash)

Hench & Dromgold Co., York, Pa.
Spangler Mfg. Co. (Lime & Ash), York, Pa.

## 10274—Separators (Magnetic)

American Concentrator Co. ("Knowles," "New Century"), Joplin, Mo.
Barnard & Leas Mfg. Co., Moline, Ill.
Barnett, Oscar Foundry Co., Newark, N. J.
Brass Founders' Supply Co. "Badger" Electro-Magnetic, etc., for Brass Fdrs.), Newark, N. J.
Capitol Brass Works ("Noble's" Electro), Detroit, Mich.
Cresson, Geo. V. Co. ("Buchanan" for Brass, Iron, Ore, etc.), Allegheny av, W of 17th, Phila., Pa.
**CUTLER HAMMER CLUTCH CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
Dings Electro Magnetic Separator Co. ("Dings" Electric), Milwaukee, Wis.

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Doune & Co. ("Phillips," Electric), 4944 Wabansia av, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Howes, S. Co., Silver Creek, N. Y.
McCormick, J. S. Co., Pittsburg, Pa.
Magnetic Separator Co., Troy, N. Y.
Reed, Charles J., 23d & Hamilton, Phila. Pa
**SPROUT, WALDRON & CO. (Automatic), Muncy, Pa.** (See adv. index, end of book)
Stearns-Roger Mfg. Co. ("Wetherill"), Denver, Colo
United Iron Works Co. ("Cleveland-Knowles" for Separating Iron Pyrites from Lead & Zinc Ores), Springfield, Mo

## 10275—Separators (Mud)

American District Steam Co., North Tonawanda, N. Y.

## 10276—Separators (Oil, from Steel Chips)

(See Separators, Centrifugal)

## 10277—Separators (Ore)

Huff Electro Static Separator Co. ("Huff," Electro Static), Boston, Mass.

## 10278—Separators (Pea)

**SPRAGUE CANNING MACHINERY Co.** ("Scott's" Rotary Interchangeable), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

## 10279—Separators (Reclaimed Rubber)

Turner, Vaughn & Taylor Co., Cuyohoga Falls, Ohio

## 10279a—Separators (Sand)

**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

## 10280—Separators (Small Seed)

Nichols & Shepard Co., Battle Creek, Mich. N. Y.

## 10281—Separators (Steam & Oil)

(See also Oil & Grease Extractors)

Acton, John ("Nelson"), 118 John, Brooklyn.
Albany Steam Trap Co. ("Blessing"), Albany, N. Y.
Ambrose Machine Co. ("De Rycke"), Eagle & Provost, Brooklyn, N. Y.
American District Steam Co., North Tonawanda, N. Y.
American Radiator Co. ("Bundy"), 282 Michigan av, Chicago, Ill.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill., & 39 Cortlandt, New York. (See adv. index & branch offices, end of book)
Angell, John E. & Co., St. Louis, Mo.
Atwood & Morrill ("XX Century"), Salem, Mass., & 136 Liberty, N. Y.
Austin Separator Co. ("Austin" Oil), Detroit, Mich.
Baldwin Engineering Co. ("Baldwin"), 209 W 33d, New York
Baragwanath & Son, 55 W Division, Chicago, Ill.
**BEGGS, JAMES & CO., Liberty &** Church, New York
Best Mfg. Co., Pittsburg, Pa.
Bushnell, John S. Co., 227 Fulton, New York
Central Station Steam Co., Detroit, Mich.
Colles, E. G. T. & Co., 117 N Canal, Chicago, Ill.
Consolidated Engineering Co. ("Van Auken"), 507 W Jackson blvd, Chicago, Ill.
Crane Co. (Est. 1855), 1214 N Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
D'Este, Julian Co. ("Curtis"), Boston, Mass.
Direct Separator Co., ("Sweets"), Syracuse, N. Y.
Elliott Co. (Horizontal & Vertical), Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flint, S. E. & Co. ("St. Louis"), Security bldg., St. Louis, Mo.
Funke, F. Steam Trap Mfg. Co., Milwaukee, Wis.
**GARDNER GOVERNOR CO., ("Gardner"),** Quincy, Ill. (See adv. index & branch offices, end of book)
Garrett, W. D. & Co. ("Garrett," Exhaust Muffler Oil Separator), 136 Liberty, New York
**GRISCOM-SPENCER CO. ("Stratton"** Live Steam), 90 West, New York. (See adv. index & branch offices, end of book)
Harrison Safety Boiler Works ("The Cochrane"), 17th, below Allegheny, Phila., Pa.
Hawley Down Draft Furnace Co. ("Hutchinson"), c Superior & Townsend, Chicago, Ill.
Hershey Machine & Foundry Co. ("Baum"), Manheim, Pa.
Hewes & Phillips Iron Works ("Naylor" Vortex Steam), Newark, N. J.
Hodgart & Co., 150 Michigan av, Chicago, Ill.
Hoppes Mfg. Co., Springfield, O.
Hughson Steam Specialty Co. ("Eclipse"), 5021 S. State, Chicago, Ill.
Hussey-McCann & Co. ("Peerless"), 87 Warren, New York
Ide, A. L. & Sons ("Ideal"), Springfield, Ill.
Imperial Iron Works ("Imperial"), Duluth, Minn.
Ironton Engine Co. (Steam), Ironton, O.
Jacobs, Chas. & Co. ("Lowden"), Boston, Mass.
Jarvis Engine & Machine Works ("Monitor" Oil), Lansing, Mich.
Kellogg, M. W. Co., 50 Church, New York
Keyes, F. E. & Son ("Advance") 20 Broad, New York
Kieley & Mueller, 34 W. 13th, New York.
Kruger & Blind Co. ("Simpson's" Centrifugal Steam), 511 Master, Philadelphia, Pa.
**KUTZTOWN FOUNDRY & MACHINE Co.** (Compound for Steam Boilers), 116 N. Broad, Phila., Pa. (See adv. index & branch offices, end of book)
Liberty Mfg. Co. ("Liberty-Greenaway"), Pittsburg, Pa.
Linton Machine Co., 26 Courtlandt, New York
Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
Locke Regulator Co., Salem, Mass.
Loew Mfg. Co. ("Loew"), Cleveland, O.
Marion Incline Filter & Heater Co. ("Packard"), Marion, O.
Mechanics' Supply Co. ("Kell"), Pittsburg, Pa.
Mitchell, W. K. & Co., Schuylkill & Ellsworth, Phila., Pa.
Monash-Younker Co. ("Monash" Steam Only), 1407 W Jackson boul. Chicago, Ill.
Mosher Water Tube Boiler Co. ("Mosher"), 30 Church, New York
Nicholson, W. H. & Co. ("Wyoming" Steam Separator & Trap Combined), Wilkes-Barre, Pa.
Ohio Blower Co. ("Swartwout" Vertical), Cleveland, O.
Patterson, Frank L. & Co. ("Patterson"), 26 Cortlandt, New York
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. R'y, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Potter Separator Co. ("Potter Mesh"), Newburgh, N. Y.
Power Plant Specialty Co. ("Vater," Two Stage Steam, etc.), Monadnock blk, Chicago, Ill.
Providence Steam Trap Co. ("Newton"), Providence, R. I.
Robertson, Jas. L. & Son (Inc.) ("Hine" Eliminator), 78 Murray, New York
**ROCKWELL FURNACE CO., 26 Cort**landt, New York. (See adv. index, end of book)
Sayre Iron ("Ridge"), Phoebus, Va.
Scranton Steam Pump Co., Scranton, Pa.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Simonds Heating & Specialty Co. ("Simonds" Steam Receiver & Separator, overcomes all Steam Pipe Vibration), Grand Rapids, Mich.
Sims Co., Erie, Pa.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Steam Appliance Co. ("Milwaukee," "Triumph," "Victor," Milwaukee, Wis.
Stewart Heater Co. (Separator & Purifier Combined), 40 Norfolk av, Buffalo, N. Y.
**STRONG, CARLISLE & HAMMOND Co.** ("Strong"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
**THOMAS & SMITH (Inc.), 116 N** Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
Thompson, Richard & Co., 126 Liberty, New York
Watson & McDaniel Co. ("W. & McD." and "Jennings"), 146 N 7th, Phila., Pa.
Webster, Warren & Co. ("The Webster"), Camden, N. J.
**WHEELER CONDENSER & ENGIN**eering Co. ("Baker" Oil), Cartaret, N. J. (See adv. index & branch offices, end of book)
Williams, D. T. Valve Co. ("Cookson" Automatic), Cincinnati, O.
Windsor Machine Co., Windsor, Vt.

## 10282—Separators (Stone)

American Clay Machinery Co., Bucyrus, O.
Brewer, H. & Co., Tecumseh, Mich.
Great Western Mfg. Co. (For Separating Stone & Gravel from Wheat), Leavenworth, Kan.
Martin Henry Brick Machine Mfg. Co., Lancaster, Pa.
Sturtevant Mill Co. ("Newaygo"), Boston,
Wallace Mfg. Co., Frankfort, Ind. Mass.

## 10283—Separators (Tin Plate & Sheet)

American Furnace & Machine Co. ("Swindell," for Tin Plate & Sheet Mills), Pittsburg, Pa.

## 10284—Separators (Vacuum)

Austin Separator Co., Detroit, Mich.

## 10285—Separators (Waste Oil)

(See Separators, Centrifugal)

## 10286— Servers

Riverside Metal Co., Riverside, N. J.

## 10287— Sets (Lock)

Sargent & Co. ("Union"), New Haven, Conn.

## Sets (Nail, Rivet, Saw, Etc.)

(These Specialties are Classified Under Their Descriptive Kinds)

## Settees, Chairs, Etc. (Veneered)

(See Seating, Veneer)

## 10288—Settees (Gliding)

Goshen Mfg. Co. ("Boyers"), Goshen, Ind.
Kelly Mfg. Co., Waterloo, Ia.

## 10289—Settees (Railroad)

(See also Seating, Veneer)

Ahnapee Veneer & Seating Co., Algoma, Wis.
American Seating Co., 215 Wabash av, Chicago, Ill.
Frost's Veneer Seating Co., Sheboygan, Wis.

## Settees (Rustic)

(See Rustic Woodwork)

## 10290—Settees & Chairs (Iron)

(See also Fountains, Vases, Etc.)

**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
Badger Wire & Pottery Co., Milwaukee, Wis.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bayley, Wm. Co., Springfield, O.
Belmont Iron Works, 22d & Washington, Phila., Pa.
Bethlehem Foundry & Machine Co. (Iron Frame, Wooden Seat), S Bethlehem, Pa.
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Also** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Brown, H. L. Fence & Mfg. Co., Cincinnati, O.
Casey-Hedges Co. (Cast Iron Settees), Chattanooga, Tenn.
Central Wire & Iron Works, Indianapolis, Ind.
**CHAMPION IRON CO., Kenton, Ohio.** (See adv. index, end of book)
Cincinnati Iron Fence Co. (Also Wire), Cincinnati, Ohio

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City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
**COLUMBUS WIRE & IRON WORKS CO.,** (Settees Only), Columbus, O. (See adv. index, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Fiske, J. W. Iron Works, 56 Park Pl, New York
Glen Mfg. Co., Elwood City, Pa.
Hennecke, C. Co., Milwaukee, Wis.
Hinderer, C. A. F., New Orleans, La.
Jones, M. D. & Co., 71 Portland, Boston.
Jones, Willis H., Utica, N. Y. Mass.
Keystone Farm Machine Co. (Wool, Iron Frame), York, Pa.
Kramer Brothers Foundry Co., Dayton, O.
Ludlow-Saylor Wire Co., St. Louis, Mo.
McDonald Bros. (Cast Iron), Columbus, Ohio
Mott, J. L. Iron Works, 118 5th av, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MUNCIE ORNAMENTAL IRON WKS,** Muncie, Ind. (See adv. index, end of book)
Ornamental Iron & Wire Co. (Inc.), Portsmouth, Va.
Smith Fence & Iron Co. (Steel), Waynesboro, Pa.
**SMITH, F. P. WIRE & IRON WORKS.** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smyser, Royer Co., York, Pa.
Swett, A. L. Iron Works, Medina, N. Y.
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.
Washington Iron Works, Buffalo, N. Y.
Westervelt, A. B. & W. T., 102 Chambers, New York
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 10291—Settees & Chairs (Lawn)

Adams Company ("Iron Fence"), Dubuque, Ia.
Badger Wire & Iron Works (Iron), Milwaukee, Wis.
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bausman, D. H. (Wood, Iron Frame), Bausman, Pa
Belcher & Taylor Ag'l Tool Co., Chicopee Falls, Mass
Bernstein Mfg. Co. (Wood, Iron Frame), 3d & Allegheny av., Phila., Pa
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Buckstaff-Edwards Co., Oshkosh, Wis.
**Buffalo Wire Works Co., Buffalo, N. Y.**
Champlain Mfg. Co. (Wood, Iron Frame), Burlington, Vt
**Detroit Arch'l Iron Works Co., Detroit, Mich.**
**Donaldson Bros., Mount Clemens, Mich.**
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Farquhar, A. B. Co., York, Pa.
Fletcher Furniture Co., Nashua, N. H.
Hardware & Woodenware Mfg. Co. (Iron), 693 B'way, New York
International Steel & Iron Construction Co. ("Bonenberg's" Iron & Steel), Evansville, Ind.
**Kalamazoo Sled Co. (Bent Wood, Folding & Swinging), Kalamazoo, Mich.**
Keystone Farm Machine Co., York, Pa.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Mitchell, Robt. Furniture Co., Cincinnati, O.
**Mott, J. L. Iron Works (Wood, Iron Frame), 118 5th av, New York**
**Moulton, C. W. H. & Co., Somerville, Mass.**
Nashua Novelty Works, Nashua, N. H.
Ohio Rake Co., Dayton, Ohio
Stewart Iron Works Co. (Settees), Covington, Ky.
Van Dorn Iron Works Co., Cleveland, O.
Warren Construction Co. (Combination Seat & Table), Warren, O.
**Western Implement Co., Port Washington, Wis.**

## 10292— Setters (Axle)

**Steadham, W. S. ("Steadham" Cold Setter & Straightener), Royce City, Tex.**

## 10293— Setters (Skein)

Williams, White & Co., Moline, Ill.

## 10294— Setters (Tire)

Ajax Mfg. Co., Cleveland, O.
Bokop, Webb & Palm ("Bokop"), Defiance, O.
Brooks Tire Machine Co. ("Brooks" Cold), Wichita, Kan., & Buffalo, N. Y.
Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.
Burtt Mfg. Co. ("Schau" Cold Set), Kalamazoo, Mich.
Champion Blower & Forge Co. ("Star"), Lancaster, Pa.
**Comstock, Geo. S. ("Wolf" Cold Tire Setter, Edge Grips), Mechanicsburg, Pa.**
Fulton Iron Works, Detroit, Mich.
House Cold Tire Setter Co. ("House" Cold), St. Louis, Mo.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Kane & Roach ("K. & R."), Syracuse, N. Y.
Lourie Mfg. Co. ("Hercules," "Scientific," "Perfection" Hydraulic), Springfield, Ill.
McGovern Tire Setter Co., Cincinnati, O.
Mayers Tire Setter Mfg. Co., St. Louis, Mo.
Munnsville Plow Co. ("Bunch"), Munnsville, N. Y.
Noyes, B. B. & Co. (Tire & Axle), Greenfield, Mass.
Potts, D. H. ("Sun"), Lancaster, Pa.
Rockford Mfg. Co. ("Rockford"), Rockford, Ill.
West Tire Setter Co. ("West" Hydraulic), Rochester, N. Y.

## 10295—Setters & Extractors

Auto Spring Repairer Co. ("Petze"), 132 Liberty, New York

## 10296—Settings (Prism Glass)

National Sheet Metal Co., Peru, Ill.

## 10297—Sewage Disposal Outfits

Edson Mfg. Co. (Odorless), 257 Atlantic av, Boston, Mass.
**MERRITT & CO., 93 Arch, Camden, N. J.** (See adv. index, end of book)
Noble, Henry A. ("National" & "The Improved" Odorless), 203 Dock, Phila., Pa.

## 10298—Sewage Disposal Plants

Andrews Heating Co. ("Andrews" Septic), Minneapolis, Minn.
Ansonia Mfg. Co. (Automatic Ejectors & Controls), 30 Church, New York
**Archer, Geo. F. (Bacterial Sewage Systems), 39 Cortlandt, New York**
**Ashley System Sewage Disposal Co. ("Ashley" System without Sewers), 45 W 34th, New York**
Bacterial Sewage Purification Co., 32 B'way,
Bonnot Co., Canton, O. New York
Central Foundry Co. (Pipe and Specials for), 90 West, New York
**City-Wastes Disposal Co., 156 5th av, New York**
Greer Filter Mfg. Co. (Inc.), Pittsburg, Pa.
Lewis & Kitchen, 1200 Michigan av, Chicago, Ill.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Modern Iron Works ("Rhoads-Williams" Raw Sewage Syphon), Quincy, Ill.
Nelson, N. O. Mfg. Co. (Septic Tank Sewage Disposal System), St. Louis, Mo.
New York Sewage Disposal Co., 37 E 28th, New York
Russell Sewage Disposal System, Burlington, Iowa
Pacific Flush Tank Co. (Automatic Air Lock & Syphonic Apparatus), 84 La Salle, Chicago, Ill.
Stary, F. & Sons ("Stary" Automatic Flush Tank Syphons, Sewage Syphons & Controls), Cedar Rapids, Ia.
Stebbings, W. L. (Sewage Disposal & Treatment), Monadnock blk., Chicago, Ill.
Waring, Chapman & Farquhar ("Waring" System), 874 B'way, New York

## 10299— Sewage Ejectors

Ansonia Mfg. Co. ("Cooney" Paetnt. "Ansonia" Auomatic), 30 Church, New York
I X L Pump & Mfg. Co. ("I. X. L."), 805 961 No 9th, Phila, Pa.
Jenkins Mfg. Co. ("Jenkins"), 20 Vesey, New York
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Shone Co. ("Shone"), 851 Blackhawk, Chi-
Walworth Mfg. Co., Boston, Mass. cago, Ill.
Yeomans Bros., 98 Jackson boul, Chicago, Ill.

## 10300—Sewage Lifts (Water Power)

Ansonia Mfg. Co., 30 Church, New York
**MERRITT & CO. (For Raising,** Sewage), 93 Arch. Camden, N. J. (See adv. index, end of book)

## Sewer Builders

(See Contractors, General)

## 10301—Sewer Couplings & Connections

Canton Cement Specialty Co., Canton, Ohio

## 10302—Sewer Manhole Steps

Anderson, W. H. Tool & Supply Co., 14 Macomb), Detroit, Mich.
Co-operative Foundry, Detroit, Mich.
Maher & Flockhart, Newark, N. J.

## 10302a—Sewer Pipe Mfrs. (Cement)

Rhode Island Cement Drain Pipe Co. (Cement), 50 Valley, Providence, R. I.
Wilson & Baillie Mfg. Co., ("Kosmocrete"), 20 Court, Brooklyn, N. Y.

## 10302b—Sewer Pipe Mfrs. (Reinforced Concrete)

Lock Joint Pipe Co., 165 B'way, New York
Pacific Lock Joint Pipe Co., Seattle, Wash.
Reinforced Concrete Pipe Co., Jackson, Mich.

## Sewer Siphons

(See Tanks, Flush)

## 10303—Sewing Machine Attachments

Blelack Mfg. Co., St. Louis, Mo.
Greist Mfg. Co., New Haven, Conn.
Parsons Mfg. Co., 411 S Clinton, Chicago, Ill.

## 10304—Sewing Machine Mfrs.

Ames Mfg. Co., Chicopee, Mass.
Ashland Machine Co., Ashland, O.
**Bauer Machine Co. (Lock Stitch), Jefferson-**
Birch Bros., Somerville, Mass. ville, Ind.
Chicago Wheel & Mfg. Co., 1101 W Monroe, Chicago, Ill.
**Curtis & Marble Machine Co. (Railway), Worcester, Mass.**
**Davis Sewing Machine Co., Dayton, O.**
Dinsmore Mfg. Co., Salem, Mass.
**Domestic Sewing Machine Co., 46 Jackson blvd, Chicago, Ill. Works, Kankanee, Ill.**
Fales, L. F. ("Maniplex" Multiple Needle), Walpole, Mass.
Foley & Williams Mfg. Co., 46 Jackson blvd, Chicago, Ill.
**Free Sewing Machine Co. ("Free" Family), Rockford, Ill.**
**Illinois Sewing Machine Co., Wabash & Randolph, Chicago, Ill.; Works, Rockford, Ill.**
Industrial Mfg. Co., Camden, N. J.
**King Sewing Machine Co., Buffalo, N. Y.**
Kruse & Murphy Mfg. Co., Park av & E 130th, New York
**Landis Machine Co., St. Louis, Mo.**
**Lewis Blind Stitch Machine Co., St. Louis, Mo.**
**Leyland, Thos. & Co. (Whaleback), 60 India, Boston, Mass.**
Lycoming Foundry & Machine Co., Williamsport, Pa.
Merrow Machine Co. ("Merrow" High Speed Trimming & Over Seaming), Hartford, Conn.
Metropolitan Sewing Machine Co., Nyack, N. Y.
**National Automatic Knitter Co., 1020 Susquehanna av, Phila, Pa.**
**National Sewing Machine Co., Belvidere, Ill.**
New Home Sewing Machine Co., Orange, Mass.
**Simmons Hardware Co. ("Volo"), St. Louis, Mo.**
**Singer Sewing Machine Co., 149 B'way, New York**
Smith & Egge Mfg. Co. (Automatic Hand), Bridgeport, Conn.
**Standard Sewing Machine Co., Cleveland, O.**
**Union Button Sewing Machine Co., 164 High, Boston, Mass.**

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Union Special Machine Co., 300 W Kinzie, Chicago, Ill.
White Sewing Machine Co., Cleveland, O.
Wilcox & Gibbs Sewing Mach. Co., 658 B'way, New York
Williams Mfg. Co., Plattsburg, N. Y.

## 10305—Sewing Machine Parts & Supplies

Sewing Machine Supplies Co., Boston, Mass.

## 10305a—Sewing Machines (Bag)

Union Special Machine Co., 300 W Kinzie, Chicago, Ill.
Wilcox & Gibbs Sewing Mach. Co., 658 B'way, New York

## 10305b—Sewing Machines (Boot & Shoe)

Davis Sewing Machine Co., Dayton, O.
Landis Machine Co., St. Louis, Mo.
Puritan Mfg. Co., 22 Lincoln, Boston, Mass.
Tennis, A. H., 47 E 19th, New York
Treen-Sawyer Mfg. Co., Lynn, Mass.
Union Special Machine Co., 300 W Kinzie, Chicago, Ill.
White Sewing Machine Co., Rose bldg. Cleveland, Ohio

## Sewing Machines (Button Hole)

(See Buttonhole Machines)

## 10306—Sewing Machines (Carpet)

Consolidated Carpet Sewing Machine Co., Bridgeport, Conn.
Singer Sewing Machine Co., 149 B'way, New York
Taft Machine Co., Providence, R. I.

## 10306a—Sewing Machines (Chain Stitch)

Kruse & Murphy Mfg. Co., Park av & E 130th, New York
Metropolitan Sewing Machine Co., Nyack, N.Y.
Singer Sewing Machine Co., 149 B'way, New York
Smith & Egge Mfg. Co. ("Little Comfort," Hand), Bridgeport, Conn.
Wilcox & Gibbs Sewing Machine Co., 568 B'way, New York

## 10307—Sewing Machines (Glove)

Ahlstrom, O. J., 711 B'way, New York
Curtin-Hebert Mfg. Co., Gloversville, N. Y.
White Sewing Machine Co., Cleveland, O.
Wilcox & Gibbs Sewing Machine Co., 658 B'way, New York
Wililams Mfg. Co., Plattsburg, N. Y.

## 10307a—Sewing Machines (Hat)

Durbrow & Hearne Mfg. Co., 12 Wooster, New York
Singer Sewing Machine Co., 149 B'way, New York
Wilcox & Gibbs Sewing Machine Co., 658 B'way, New York

## 10308—Sewing Machines (Leather)

Singer Sewing Machine Co. (For Harness Mfrs., Comage Leather, etc.), 149 B'way, New York

## 10308a—Sewing Machines (Mattress)

Union Special Machine Co., 300 W Kinzie, Chicago, Ill.

## 10309—Sewing Machines (Multiple Needle)

Fales, L. F. ("Maniplex," Heavy Duty Lock Stitch), Walpole, Mass.

## 10309a—Sewing Machines (Sailmakers')

Singer Sewing Machine Co., 149 B'way, New York

## 10310— Shackles (Chain)

Auer, John Jr., 199 Middleton Brooklyn, N. Y.
Hayden-Corbett Chain Co., Columbus, O.
Laughlin, Thos. Co., Portland, Me.
McKay, Jas. Co., Pittsburg, Pa.
McMillan's, W. H. Sons, 153 South, New York
Malleable Iron Fittings Co., Branford, Conn.
Marine Hardware & Equipment Co., So. Portland, Me.
Oshkosh Mfg. Co. (Steel), Oshkosh, Wis.
Standard Chain Co., Pittsburg, Pa.
**UNION ELEVATOR & MACHINE CO.** (Also Anchor Shackles), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co. (Screw & Pin, etc.), Middletown, Conn.

## 10311— Shackles (Guy)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg. Chicago, Ill. (See adv. index & branch offices, end of book)

## 10311a—Shade Cloth Cutting Machines

**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)

## 10312—Shade Cloth Mfrs.

Breneman, Chas. W. & Co. ("Brenlin", "Camargo", "Myama"), Cincinnati, O.
Columbia Shade Cloth Co. ("Crescent", "Damasko", "Star", "Arrow"), 27 W 24th, New York
Hauser Shade Cloth Co., Chicago Heights, Ill.
McLean, Andrew Co., Passaic, N. J.
Minetto-Meriden Co., Minetto, N. Y.
Opaque Shade Cloth Co., Peoria, & W 121st, Chicago, Ill
Oswego Shade Cloth Co. ("Chouaguen"), Oswego, N. Y
Wemple, Jay C. Co. ("Empire"), 35 E 20th, New York
Western Shade Cloth Co. ("Victor", "Lux-Or", "Cambro"), 21st & Jefferson, Chicago, Ill.

## 10312a—Shade Cord Mfrs.

**SAMSON CORDAGE WORKS, 88** Broad, Boston, Mass. (See adv. index, end of book)
**SILVER LAKE CO., 78 Chauncy,** Boston, Mass. (See adv. index, end of book)

## 10313—Shades (Aluminum)

Dale Co., 352 W. 13th, New York.
Faries Mfg. Co., Decatur, Ill.
Tea Tray Co., Newark, N. J.

## Shades (Car)

(See Car Curtains & Materials)

## 10314—Shades (Glass, Pressed or Blown)

Gillender & Sons (Inc.), 135 Oxford, Phila., Pa
Gleason-Tiebout Glass Co., 99 Commercial, Brooklyn, N. Y.
United States Glass Co., Pittsburg, Pa.

## 10315—Shades (Glass & Metal)

McCreary, A. A. (Shades, Half Glass & Metal) 136 Liberty, New York
Salo Art Metal Co. (For Gas & Electric Portables), Binghamton, N. Y.

## 10316—Shades (Mirror Lined)

Bailey Reflector Co., 547 4th av, Pittsburg, Pa
**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)

## 10317— Shades (Paper)

Hohenstein, H. Co., 132 W 21st, New York
Utility Shade Co., Tenafly, N. J.
Whaley, J. A. & Co., 812 Greenwich, New York
Will & Baumer Co., Syracuse, N. Y.

## 10318— Shades (Porch)

Comey, R. H. Co. ("Koml" Porch Curtains). Camden, N. J
Hough Shade Corporation ("Vudor"). Janesville Wis

## 10319—Shades (Prismatic)

Holophane Glass Co., Newark, O.
Welsbach Co., 1008 Filbert, Phila., Pa.

## 10320— Shades (Silk)

Dale Co., 9th av & 13th, New York
**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)
Hohenstein, H. Co., 132 W 21st, New York
Whaley, J. A. & Co., 812 Greenwich, New York
Will & Baumer Co., Syracuse, N. Y.

## 10321—Shades (Trolley Vestibule)

Electric Service Supplies Co., 1024 Fillbert, Phila., Pa.

## 10322—Shades & Reflectors (Glass or Porcelain)

Cleveland Window Glass & Door Co., Cleveland, O.
Consolidated Lamp & Glass Co., Coraopolis, Pa.
Dayton Art Glass Works (Art Glass), Dayton, O.
Gill Bros. Co., Steubenville, O.
Gill & Co. (Washington Flint Glass Works), 2327 E. Thompson, Philadelphia, Pa.
Gillender & Sons (Inc.), 135 Oxford, Philadelphia, Pa.
Gleason-Tiebout Glass Co. (Glass Globes), 99 Commercial, Brooklyn, N. Y.
Haskins Glass Co., Martins Ferry, Ohio.
Jefferson Glass Co. ("Luceo", Glass), Follansbee, W. Va.
Kneeland Reflector Co., 18 Pitts, Boston, Mass
Macbeth-Evans Glass Co., Pittsburg, Pa.
McCreary, A. A., 136 Liberty, New York
Murray, James J. & Co., c E Willard & Collins, Philadelphia, Pa.
National X-Ray Reflector Co., 247 Jackson boul, Chicago, Ill.
Neuhauser, D. L. Co. (Glass), 242 S Water, Chicago, Ill.
Pairpoint Corp'n, New Bedford, Mass.
Pettingell, Andrews Co., Boston, Mass.
Phoenix Glass Co. ("Electric & Gas"), 2d Nat'l Bank bldg, Pittsburg, Pa.
Shelby Electric Co., Shelby, Ohio
Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.
Unique Art Glass & Metal Co., 105 Vanderveer, Brooklyn, N. Y.

## 10323—Shades & Reflectors (Metallic)

American Metal Stamping Co., 20 E Herman, Phila., Pa.
American Reflector & Lighting Co. ("Paragon"), 517 W Jackson blvd, Chicago, Ill.
Bailey Reflector Co., 547 4th av, Pittsburg, Pa.
Baltimore Enamel & Novelty Co., cor. Allen & Clement, Baltimore, Md.
Curtis Leger Fixture Co. ("Poke Bonnet"), 240 Jackson boul., Chicago, Ill.
Cutter, George Co., South Bend, Ind.
Dale Co., 352 W. 13th, New York.
D'Olier Engineering Co., 119 S 11th, Philadelphia, Pa.
Faries Mfg. Co., Decatur, Ill.
Federal Electric Co., c. Lake & N. Desplaines, Chicago, Ill.
**FRINK, ISAAC P., 24th st & 10th** av, New York. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices ,end of book)
Gleason, E. P. Mfg. Co., 37 Murray, New York
Huobell, Harvey, Bridgeport, Conn.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Klemm & Co., 132 N 5th, Philadelphia, Pa.
McCreary, A. A. (Shades), 136 Liberty, New York
McLeod, Ward & Co., 27 Thames, New York.
**MORSE, FRANK W., 516 Atlantic** av., Boston, Mass. (See adv. index, end of book)
Ostrander, W. R. & Co., 22 Dey, New York.
Overbagn & Ayres Mfg. Co. ("Omaco" Show Case Reflectors), 411 S Clinton, Chicago, Ill.
P.-R. Mfg. Co. ("Hartwig"), Detroit, Mich.
Roberts, H. C. Electric Supply Co. ("Crown"), 905 Arch, Philadelphia, Pa.
Tea Tray Co. ("Tidman", "Martin"), Newark, N. J.
Western Reflector Co., 1053 W Lake, Chicago, Ill.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

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## 10324—Shades & Reflectors (Mirror)

American Reflector & Lighting Co. ("Paragon"), 517 W Jackson boul, Chicago, Ill.
Bailey Reflector Co., Pittsburg, Pa.
**FRINK, ISAAC P., 239 10th av, New** York. (See adv. index, end of book)
Klemm & Co., 132 N 5th, Phila., Pa.
National X-Ray Reflector Co. ("Helmet," "Poke," "Bonnet"), 249 Jackson boul, Chicago, Ill.
Overbagh & Ayres Mfg. Co. ("Omaco"), 411 S Clinton, Chicago, Ill.
Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.
Tea Tray Co., Newark, N. Y. N. Y.
Weekes, Nelson, 217 William, New York.
Western Reflector Co., 1053 W Lake, Chicago, Ill.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

## 10325—Shafting (Cold Drawn Steel)

**AMERICAN STEEL & WIRE CO.,** Commercial Natl. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Cambria Steel Co., Johnstown, Pa.
Columbia Steel & Shafting Co., Rankin, Pa.
**Crucible Steel Co. of America, Pittsburg, Pa.**
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Jones & Laughlin Steel Co. (Also Cold Rolled), Pittsburg, Pa.
Medart Patent Pulley Co., St. Louis, Mo.
Pardee, C. Works, Perth Amboy, N. J.
Pennsylvania Shafting Co., Spring City, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)
**UNION DRAWN STEEL CO., Beaver** Falls, Pa., & 460 Washington, New York
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 10326— Shafting Collars

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Machinery Co., Cuyahoga Falls, Ohio
Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
Jones & Laughlin Steel Co. (Steel, Loose, etc.), Pittsburg, Pa.
Keystone Drop Forge Works (Drop Forged, Blanks, etc.), Chester, Pa.
Medart Patent Pulley Co. (Plain or Safety Type), St. Louis, Mo.
Middletown Machine Co., Middletown, O.
Nordyke & Marmon Co., Indianapolis, Ind.
Patterson, Gottfried & Hunter (Ltd.) ("Johnson" Safety, Solid & Split), 211 Centre, New York
Plamondon, A. Mfg. Co., 24 N Clinton, Chicago, Ill.
Platt Iron Works Co. (Set Collars, etc.), Dayton, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Rhode Island Tool Co. (Cold Punched), Providence, R. I.
Smith, M. I. (Split & Solid), Bristol, Conn.
Standard Pressed Steel Co. ("Hallowell," Cold Rolled Steel), 20th & Clearfield, Phila., Pa.
Valley Iron Works ("Hendershot" Cast Iron), Williamsport, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Williams, J. H. & Co. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y.
Wood's, T. B. Sons Co. (Safety Set), Chambersburg, Pa.

## 10326a—Shafting (Heavy Forged Steel)

Bethlehem Steel Co. (Solid or Hollow), South Bethlehem, Pa.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Pennsylvania Steel Co., 1421 Chestnut, Phila, Pa. Works, Steelton, Pa.
Philadelphia Steel & Forge Co., 50 Church, New York
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Reading Iron Co., Reading, Pa.
Standard Forging Co., Indian Harbor, Ind.

## 10327—Shafting (Hollow Seamless Steel)

Dodge Mfg. Co., Mishawaka, Ind.
National Tube Co. ("Shelby"), Pittsburg, Pa.
Standard Seamless Tube Co., Ellwood City, Pa.

## 10328—Shafting (Iron & Steel)

(The Firms under this heading all Roll Shafting)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Braeburn Steel Co. (Steel Only), Braeburn, Pa.
Cambria Steel Co. (Steel Only), Johnstown, Pa.
Cumberland Steel Co. (Turned & Ground Steel), Cumberland, Md.
Illinois Steel Co. (Steel Only), 115 Adams, Chicago, Ill.
Jones & Laughlin Steel Co. (Steel Only), Pittsburg, Pa.
Judson Mfg. Co. (Iron), San Francisco, Cal.
Licking Rolling Mill Co. (Iron Only), Covington, Ky.
Lockhart Iron & Steel Co., Pittsburg, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Penn Iron Co. (Iron Only), Lancaster, Pa.
Pennsylvania Steel Co. (Steel Only), 1421 Chestnut, Phila, Pa. Works, Steelton, Pa.
Reading Iron Co., Reading, Pa.

## 10328a—Shafting (Oil Rings for)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)

## 10329—Shafting (Polished Steel)

**AMERICAN STEEL & WIRE CO.,** Commercial Natl. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Bliss & Laughlins (Keyseated & Fitted with Couplings), Harvey, Ill.
Brightman Mfg. Co. (¼ to 6 inches, inclusive), Columbus, O.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Cambria Steel Co., Johnstown, Pa.
Columbia Steel & Shafting Co., Rankin, Pa.
Compressed Steel Shafting Co., 393 Dorchester av, Boston, Mass.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Crucible Steel Co. of America, Pittsburg, Pa.
Cumberland Steel Co. (Turned & Ground), Cumberland, Md.
Dodge Mfg. Co., Mishawaka, Ind.
Fitzsimons Co., Youngstown, O.
**Jones & Laughlin Steel Co., Pittsburg, Pa.**
Medart Patent Pulley Co., St. Louis, Mo.
Nordyke & Marmon Co., Indianapolis, Ind.
Penn Shafting Co., Spring City, Pa.
Pennsylvania Steel Co. (1 to 5 15-16 in. in diameter), 1421 Chestnut, Phila, Pa. Works, Steelton, Pa.
Republic Iron & Steel Co. ("Acme"), Pittsburg, Pa.
**UNION DRAWN STEEL CO., Beaver Falls** Pa., & 460 Washington, New York

## 10330—Shafting (Turned)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Tool & Machine Co. (Iron), 109 Beach, Boston, Mass.
**BROWN, A. & F. CO. (Steel), 172** Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CLEVELAND CITY FORGE & IRON** Co., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
Cumberland Steel Co. (Turned & Ground Steel), Cumberland, Md.
Dodge Mfg. Co., Mishawaka, Ind.
Medart Patent Pulley Co. (Steel), St. Louis, Mo.
Nordyke & Marmon Co., Indianapolis, Ind.
Platt Iron Works Co., Dayton, O.
**STANDARD GAUGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)
Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa.
Titusville Forge Co. (Forged 10 lbs. to 20 Tons), Titusville, Pa.
**UNION DRAWN STEEL CO. (Steel),** Beaver Falls, Pa., & 460 Wash'n, New York
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)


# Industrial Information

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription, and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine tool or specialty which they may require.

**Hendricks' Commercial Register**


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## 10331– Shafts (Flexible)

**CHICAGO FLEXIBLE SHAFT CO.,** 81 La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
**COATES CLIPPER MFG. CO. ("Coates"** Unit Link), Worcester, Mass. (See adv. index, end of book)
Gem Mfg. Co. ("Gem" Motor Driven), Spruce nr 33rd, Pittsburg, Pa.
Stow Flexible Shaft Co., N 26th, Phila., Pa.
Stow Mfg. Co., Binghamton, N. Y.
Webb Mfg. Co., Newark, N. J.

## 10332–Shafts (Flexible, Boat, Sand Papering & Varnish Rubbing)

**COATES CLIPPER MFG. CO., Wor-**cester, Mass. (See adv. index, end of book)

## 10333–Shafts (Flexible, Stone Polishing)

**COATES CLIPPER MFG. CO., Wor-**cester, Mass. (See adv. index, end of book)

## 10333a– Shafts (Jack)

Muncie Gear Co.

## 10334–Shafts (Key Seating)

Dodge Mfg. Co., Mishawaka, Ind.
Judson Mfg. Co., San Francisco, Cal.
Lockhart Iron & Steel Co., McKees Rocks, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Pardee, C., Works (Planished), Perth Amboy, N. J.
Penn Iron Co. (Iron), Lancaster, Pa.
Pittsburg Steel Shafting Co., Braddock, Pa.
Reading Iron Co., Reading, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
**STANDARD GUAGE STEEL CO.,** Beaver Falls, Pa. (See adv. index, end of book)
**UNION DRAWN STEEL CO., Beaver Falls,** Pa., & 460 Washington, New York

## 10335– Shampoos

Edwardsville Brass Co., Edwardsville, Ill.

## 10335a–Shanks (Crucible)

**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

## 10336–Shanks (Ladle Carrying)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 10337– Shanks (Shoe)

Heckel, John, Rochester, N. Y.
Rochester Shank Co., Rochester, N. Y.

## 10338–Shapes (Pressed Metal)

American Pulley Co., 29th c. Bristol, Phila., Pa.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

## 10339–Shares (Plow & Lister)

Avery, B. F. & Sons, Louisville, Ky.
Brown-Manly Plow Co., Malta, O.
Brown Mfg. Co., Zanesville, O.
Crescent Forge & Shovel Co. (Plow), Havana, Ill.
Harriman Mfg. Co., Harriman, Tenn.
Harrow Spring Co., Kalamazoo, Mich.
Mason, F. C. & Co., St. Johns, Mich.
Noll Bros., Milwaukee, Wis.
Ohio Cultivator Co., Bellevue, O.
Star Mfg. Co. (Steel), Carpentersville, Ill.
Weyburn Sales Co., Rockford, Ill.
Youngstown Iron & Steel Co., Youngstown, O.

## 10340–Sharpeners (Disc)

B. B. Mfg. Co., Davenport, Ia.
Benicia Iron Works ("Peerless"), Benicia, Cal.
Chicago Wheel & Mfg. Co. (Gem), Chicago, Ill
Clizbe Bros. Mfg. Co. (Plymouth), Plymouth, Ind.
Deere & Mansur Co., Moline, Ill.
Durner, A. E. ("Wonder," "Little Giant"), Evansville, Wis.
Herschel, R. Mfg. Co. (Reliable), Peoria, Ill.
Murray Iron Works Co. ("Monarch"), Burlington, Ia.
Rock Island Plow Co., Rock Island, Ill.
Schofield & Co. ("Daisy"), Freeport, Ill.
Skow Bros. ("Skow" Rotary), Newton, Iowa
Wenzelman Mfg. Co. ("Farmers' Delight"), Streator, Ill.

## 10341–Sharpeners (Dowel)

Smith, H. B. Machine Co., Smithville, N. J.
Stanley Rule & Level Co. (Wood), New Britain, Conn.

## 10342–Sharpeners (Drill)

Eclipse Drill Sharpening Machine Mfg. Co. ("Eclipse"), Denver, Colo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Leyner, J. G. Engineering Works Co., Littleton, Colo.
Numa Rock Drill Sharpener Co. ("Numa" Rock Drill), Salt Lake City, Utah
Word Bros. ("Word" Rock Drill), San Francisco, Cal.

## 10342a–Sharpeners (Drill Steel)

**INGERSOLL-RAND CO. ("Ajax"), 11** B'way, New York. (See adv. index & branch offices, end of book)

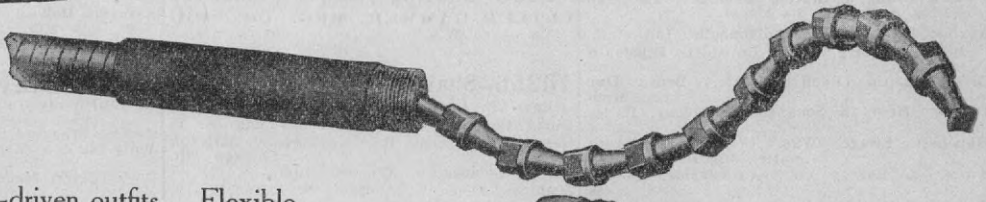
## 10343–Sharpeners (File)

(See also File Sharpening Machines)
American File Sharpener Co. ("American"), 287 B'way, New York

## 10344–Sharpeners (Knife)

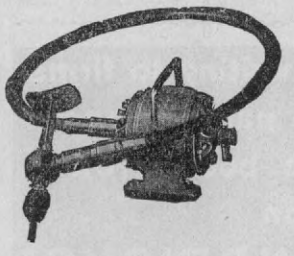
American Cutlery Co. ("The Only"), 764 Mather, Chicago, Ill.
Cassady-Fairbank Mfg. Co. (Emery & Corundum), 6126 La Salle, Chicago, Ill.
Smith, F. H. Mfg. Co. ("Best Yet"), 321 St. John's ct, Chicago, Ill.


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Worcester, Mass., U. S. A.


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## 10345—Sharpeners (Lawn Mower)

Chicago Wheel & Mfg. Co. ("Chicago," "Eureka," "Gem," "Peoria"), 1101 W Monroe, Chicago, Ill.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Coldwell Lawn Mower Co. ("Coldwell"), Newburgh, N. Y.
Hampden Corundum Wheel Co., Brightwood, Springfield, Mass.
Heath Foundry & Mfg. Co. ("Ideal" Grinder), Plymouth, Ohio
Luther Bros. Co. ("Jackson"), Milwaukee, Wis.
National Mach. & Stamping Co., Detroit, Mich.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
**RICHARDS-WILCOX MFG. CO.** ("Wilcox"), Aurora, Ill. (See adv. index & branch offices, end of book)
Royal Mfg. Co., 408 Commerce, Phila., Pa.

## Sharpeners (Mower Knife)

(See Grinders, Sickle & Mower Knife)

## 10346—Sharpeners (Pencil)

Automatic Pencil Sharpener Co. ("U. S. Automatic"), 37 E 28th, New York
Cook, F. H. & Co. ("Gem"), Leominster, Mass.
Fremont Crescent Metal & Mfg. Co., Fremont, Ohio
Hodge Mfg. Co. ("Modern"), 108 Fulton, New York
McDivitt, E. L., Belvidere, Ill.
North American Supply Co. ("N. A."), Columbus, O.
Roneo Co. ("Roneo," Automatic), 371 B'way, New York
Specialty Mfg. Co., Decatur, Ill.
Webster, F. S. Co. ("Webster"), Boston, Mass.

## 10346a—Sharpeners (Razor)

**ALEXANDER STROPPER CO.** (Rotary), 507 W Lombard, Baltimore, Md.

## 10348—Sharpeners (Rock Drill)

Numa Rock Drill Sharpener Co. ("Numa"), Salt Lake City, Utah

## 10349—Sharpeners (Saw)

(See also Saw Sharpening Machines; also Band Saw Filing & Setting Machines; also Saw Filing & Setting Machines)

Atkins, E. C. & Co., Indianapolis, Ind.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Covel Mfg. Co. (Band Saw, etc.), Benton Harbor, Mich.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Hanchett Swage Wks. ("Hanchett" Automatic), Big Rapids, Mich.
Nutter & Barnes Co. (Automatic), Boston, Mass.
Riverside Machine Works ("Crescent"), Kokomo, Ind.
Rotary File & Machine Co. ("Ideal"), 589 Kent av, Brooklyn, N. Y.
Star Corundum Wheel Co. (Automobiles), Detroit, Mich.
Wickes Bros. (Hand, etc.), Saginaw, Mich.

## 10350—Sharpeners (Skate)

Luther Bros. Co. (Bench Skate Grinder), Milwaukee, Wis.
**OSBORN MFG. CO. ("File 'em Quick")**, 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)

## 10350a—Sharpeners (Toe Calk)

**COATES CLIPPER MFG. CO.** (Electric), Worcester, Mass. (See adv. index, end of book)

## 10351—Sharpeners (Tool)

Walker, Oakley S. & Co. ("Globe," for Machine Tools), Worcester, Mass.

## 10352— Shavers (Ice)

(See also Ice Cube Cutting Machines)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill.
Burgess-Norton Mfg. Co., Geneva, Ill.
Dana Mfg. Co., Cincinnati, O.
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Enterprise Mfg. Co., 3d & Dauphin, Phila, Pa.
Erie Specialty Co. ("Walker's"), Erie, Pa.
Gifford-Wood Co., Hudson, N. Y.
Gilchrist Co. ("Yankee" Steel), Newark, N. J.
Griswold Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Kingery Mfg. Co., Cincinnati, O.
North Bros. Mfg. Co. ("Gem"), Lehigh av & American, Phila., Pa.
Reinhold Mfg. Co. ("Jumbo"), Detroit, Mich.
Stortz, John & Son, 210 Vine, Phila., Pa.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
White, L. & I. J. Co., Buffalo, N. Y.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.

## 10353—Shavers (Smoked Beef)

Blakeslee, G. S. & Co. ("Blakeslee", 325 Dearborn, Chicago, Ill.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

## 10354— Shaves (Spoke)

Baker, Hermann & Co. (Imported), 101 Duane, New York
Buckeye Saw Vise Co., Cleveland, O.
Chapin-Stephens Co., Pine Meadow, Conn.
Cincinnati Tool Co. ("Hargrave"), Cincinnati, Ohio
Goodell-Pratt Co., Greenfield, Mass.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Works), (Wood), Newark, N. J.
Mack & Co., Rochester, N. Y.
Miller's Falls Co., 28 Warren, New York
Ohio Tool Co., Columbus, O.
Osborne, C. S. & Co. (Harness Makers, etc.), Harrison, N. J.
Phoenix Hardware Mfg. Co. (Iron), Homer, N. Y.
Smith, Seymour & Son (Iron), Oakville, Conn
Stanley Rule & Level Co. ("Bailey"), New Britain, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Tatum, Samuel C. Co., Cincinnati, O.
Union Mfg. Co., New Britain, Conn.
Vom Cleff & Co., 105 Duane, New York
White, L. & I. J. Co. (Adjustable, etc.), Buffalo, N. Y.
Wiebusch & Hilger (Imported), 106 Lafayette New York

## 10355—Shaving Mugs (Electric)

**CUTLER-HAMMER MFG. CO.**, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 10356—Shavings (Baled)

Alliger, F. I. Lumber Co., Tonawanda, N. Y.
Butts, Chas. G. Co., North Tonawanda, N. Y.
Des Rivieres, Geo. R. Co., 1124 W 34th pl, Chicago, Ill.
Empire Lumber Co., Winona, Minn.
Jennings, Geo. W., Buffalo, N. Y.
Page, Geo. B. Box Co., Cambridge, Mass.
Osgood, Blodgett Mfg. Co., St. Paul, Minn.

## 10357—Shavings (Vinegar & Brewers')

Kelso & Co. (Clarifying), 557 W Quincy, Chicago, Ill.
Redlich Mfg. Co., 637 W Oak, Chicago, Ill.

## 10358— Shaving (Zinc)

Braun Corporation, Los Angeles, Cal.
Calkins Co., Los Angeles, Cal.
Denver Fire Clay Co., Denver, Col.
Pacific Tank & Pipe Co. (for Gold, Silver Precipitation), San Francisco, Cal., & Los Angeles, Cal.

## Shears

(Under this Heading see Sub-classifications; see also Machinery, Punching & Shearing; also Punches, Various Kinds)

## 10359—Shears (Alligator)

**CANTON FOUNDRY & MACHINE CO.** ("Canton"), Canton, O. (See adv. index, end of book)
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Cedar Rapids Foundry & Machine Co., Cedar Rapids, Ia.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Danville Foundry & Machine Co. ("Little Giant" Portable), Danville, Pa.
Doelger & Kirsten, Milwaukee, Wis.
Evans, John Sons, 13th & Buttonwood, Phila, Pa.
Excelsior Tool & Machine Co., East St. Louis, Ill.
Farrel Foundry & Machine Co., Ansonia, Conn.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil**mington, Del. (See adv. index, end of book)
Meeks, J. Arthur, Muncie, Ind.
Mesta Machine Co., Pittsburg, Pa.
**PELS, HENRY & CO. (Unbreakable** Rolled Seeel Frame), West & Albany, New York. (See adv. index, end of book)
Philadelphia Roll & Machine Co. (For Scrap & Old Boiler Shells, etc.), S 23d & Wash'n av, Phila. Pa.
Rock River Machine Co. ("Badger" Belt Driven), Janesville. Wis.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch, end of book)
Slater, Marsden & Whittmore Co., Beloit, Wis.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

## 10360—Shears (Angle Iron)

Alliance Machine Co., Alliance, O.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, B'klyn, New** York. (See adv. index & branch offices, end of book)
Cincinnati Punch & Shear Co., Cincinnati, O.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Covington Machine Co. ("C. C. Wais Patent"), Covington, Va.
Excelsior Tool & Machine Co., East St. Louis, Ill.
**FAWCUS MACHINE CO., 2820 Smalli**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Hilles & Jones Co., Wilmington, Del.
**LONG & ALLSTATTER CO. (Steam,** Belt or Motor Driven, Double or Single Geared & on Turntable), Hamilton, O. (See adv. index, end of book)
National Roll & Foundry Co., Avonmore, Pa.
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 11 B'way, New York
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Phila. Roll & Machine Co., 23d & Wash'n av, Phila., Pa.
Rock River Machine Co. ("Badger"), Janesville. Wis.
Royersford Fdry. & Machine Co., Royersford, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

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## 10361—Shears (Band Saw)

Branch Saw Co., St. Louis, Mo.

## 10362—Shears (Bar & Plate)

Alliance Machine Co., Alliance, O.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ia.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Buffalo Forge Co., Buffalo, N. Y.
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
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Youngstown Foundry & Machine Co., Youngstown, Ohio

## 10363—Shears (Beam & Channel)

(See also Shears, Angle Iron)

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**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame; Open & Closed Throat Types), West & Albany, New York. (See adv. index, end of book)

## 10364— Shears (Bench)

Chandler & Farquhar Co. ("Federal"), Boston, Mass.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Merwin Mfg. Co. ("Vulcan", Shear & Rod Cutter), Erie, Pa.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Oliver, W. W. Mfg. Co. (Jewelers), 1483 Niagara, Buffalo, N. Y.
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**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**ST. LOUIS SALES CO. (Mfrs. Agts.** for "Viking" Portable), 1224 Chemical bldg, St. Louis, Mo. (See adv. index, end of book)
Viking Shear Co. ("Viking"), Erie, Pa.

## 10365—Shears (Beveling)

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**BLISS, E. W. CO., 19 Adams, B'lyn,** N. Y. (See adv. index & branch offices, end of book)
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**FAWCUS MACHINE CO., 2820 Smallman,** Pittsburg, Pa. (See adv. index & branch offices, end of book)
**HILLES & JONES CO., East Wilmington,** Del. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Boiler** Plate, etc.), Hamilton, O. (See adv. index, end of book)
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
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Perkins Machine Co. (Plate Beveling), Warren, Mass.
**RYERSON, JOS. T. & SON ("Lennox"** Rotary), 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
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## 10366—Shears (Billet & Bloom)

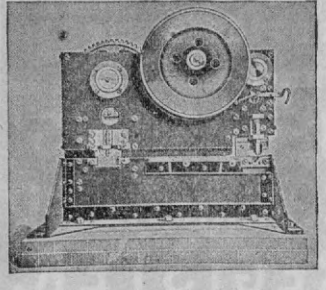
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Bethlehem Steel Co., South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, B'klyn, New** York. (See adv. index & branch offices, end of book)
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Rock River Machine Co., Janesville, Wis.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Williams, White & Co., Moline, Ill.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

## 10367—Shears (Brushmakers')

**Stortz, John & Son, 210 Vine, Phila., Pa.**

## 10368— Shears (Circle)

Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, B'klyn, New** York. (See adv. index & branch offices, end of book)
Gould & Eberhardt, Newark, N. J.
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Stoll, D. H. Co., Buffalo, N. Y.
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United Engineering & Foundry Co. (For Rolling Mills), Pittsburg, Pa.

## 10370—Shears (Cotton Bale)

Draper Co., Hopedale, Mass.

## 10371—Shears (Crocodile)

(See Shears, Alligator)

## 10372—Shears (Double Plate & Sheet Mill)

Aetna Foundry & Machine Co., Warren, O.
Bertsch & Co., Cambridge City, Ind.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Small-** man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
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Mesta Machine Co., Pittsburg, Pa.
National Roll & Foundry Co., Avonmore, Pa.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Phillips & McLaren, Pittsburg, Pa.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

## 10373—Shears for Heavy Boiler Plates, Etc.

**BLISS, E. W. CO., 19 Adams, B'lyn,** N. Y. (See adv. index & branch offices, end of book)
**BRAUN, J. G., 615 S Paulina, Chica-** go, Ill., & 537 W 35th, New York. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Queen City Punch & Shear Co., Cincinnati, O.

## 10374—Shears for Sheet Metal Work

**BLISS, E. W. CO., 19 Adams, B'lyn,** N. Y. (See adv. index & branch offices, end of book)
**BRAUN, J. G., 615 S Paulina, Chica-** go, Ill., & 537 W 35th, New York. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Wks., Toledo, O.
**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
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Stoll, D. H. Co., Buffalo, N. Y.

## 10375— Shears (Gap)

**NIAGARA MACHINE & TOOL WKS.** (Power), Buffalo, N. Y. (See adv. index, end of book)

## 10376—Shears (Gate or Guillotine)

Alliance Machine Co., Alliance, O.
Bertsch & Co., Cambridge City, Ind.
Danville Foundry & Machine Co., Danville, Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv index, end of book)
Farrel Foundry & Machine Co. (Gate), Ansonia, Conn.
**FAWCUS MACHINE CO., 2820 Small-** man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
**LONG & ALLSTATTER CO. (Gate** Shears, Motor, Belt or Steam Driven & Double or Single Geared), Hamilton, O. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Williams, White & Co. (Gate Shears), Moline, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

## 10377— Shears (Grape)

Clauss Shear Co., Fremont, Ohio
Clyde Cutlery Co., Clyde, Ohio
Cronk & Carrier Mfg. Co. ("Cronk's"), Elmira, N. Y.
International Cutlery Co., Fremont, Ohio

## Shears (Grass)

(See Shears, Sheep, Grass, Etc.)

## 10378— Shears (Hand)

Bertsch & Co., Cambridge City, Ind.
Kane & Roach, Syracuse, N. Y.
Lewthwaite, T. H., 413 E 31st, New York
Marshall Son & Co., Boston, Mass.
**NIAGARA MACHINE & TOOL** Works (For Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Novelty Iron Works (G. E. Davis, Prop.), ("Victor"), Dubuque, Iowa
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Perkins Machine Co. (Metal), Warren, Mass.
Smith & Egge Mfg. Co. ("Eureka" for Cutting Wire, Rods & Strip Metal), Bridgeport, Conn.
Whitney, W. A. Mfg. Co. ("Viking"), Rockford, Ill.
Young Machine & Tool Co., Worcester, Mass.

## 10379—Shears (Hand Power Beam)

**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

## 10380— Shears (Hoof)

Champion Tool Co. ("Champion" Ball Bearing), Meadville, Pa.

## 10381—Shears (Horse Clipping)

Clauss Shear Co. ("Clauss"), Fremont, O.
Columbian Cutlery Co. ("Wilcut"), Reading, Pa.
National Cutlery Co. ("National" Roaching), Westmoreland & Boudinot, Phila., Pa.
Smith, J. Barton Co., N Norris & Hope, Phila., Pa.
Wiss, J. & Sons Co., Newark, N. J.

## 10382—Shears (Hydraulic)

Alliance Machine Co., Alliance, O.
Bertsch & Co., Cambridge City, Ind.
Bethlehem Steel Co., South Bethlehem, Pa.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**DUDGEON, RICHARD, 24 Columbia,** New York. (See adv. index, end of book)
**FAWCUS MACHINE CO., 2820 Small-** man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Maryland Steel Co., Sparrows Point, Baltimore, Md.
Mesta Machine Co., Pittsburg, Pa.
Morgan Construction Co., Worcester, Mass.
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**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
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**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Wood, R. D. & Co. (Multiple Power Plate Shear), 400 Chestnut, Philadelphia, Pa.
Wood, Wm. H., Media, Pa.

## 10383— Shears (Lawn)

(See Shears, Sheep, Grass & Hedge)

## 10384— Shears (Lever)

Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
Birmingham Iron Foundry, Derby, Conn.
**CARLIN'S, THOS. SONS CO. ("Alli-** gator"), Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
Detroit Shear Co. ("Searight" Compound Lever Mechanics), Detroit, Mich.
Edwards, C. D., Albert Lea, Minn.
Excelsior Tool & Machine Co., E. St. Louis, Ill.
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**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
Lewis Foundry & Machine Co. (Rolling Mill), Coraopolis, Pa.
Lewthwaite, T. H., 413 E 31st, New York
McSherry Mfg. Co., Pittsburg, Pa.
National Machinery Co., Tiffin, O.
New Doty Mfg. Co., Janesville, Wis.
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
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Peck, Stow & Wilcox Co., Southington, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
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Pittsburg Iron Works, Westinghouse bldg., Pittsburg, Pa.
Rock River Machine Co. ("Badger") Janesville, Wis.
Robinson, J. M. Mfg. Co. (Slitting), 3282 Spring Grove, Cincinnati, O.

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Williams, White & Co., Moline, Ill.
Young Machine & Tool Co., Worcester, Mass.

## 10385—Shears (Muck Bar)

**BLISS, E. W. CO., 19 Adams, B'lyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)

## 10386—Shears (Paper Box Makers')

**BECK, CHAS. CO., 607 Chestnut,** Phila, Pa. (See adv. index, end of book)
Hinze, H., Tribune bldg., New York.
Jacques, Jno. & Son, Worcester, Mass.
**KNOWLTON, M. D., CO., Rochester, N.** Y. (See adv. index, & branch offices, end of book.)

## 10387—Shears (Paper Hangers')

Clauss Shear Co. ("Clauss"), Fremont, O.
National Cutlery Co., Westmoreland & Boudinot, Phila., Pa.
Schatt & Morgan Cutlery Co., Titusville, Pa.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Wiss, J. & Sons Co., Newark, N. J.

## 10388—Shears (Plate Splitting)

(See Shears, Splitting)

## 10389— Shears (Power)

Alliance Machine Co., Alliance, O.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
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**PRENTISS TOOL & SUPPLY CO., 115** Liberty, New York. (See adv. index, & branch offices, end of book.)
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Royersford Foundry & Machine Co., Royersford, Pa.
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Stoll, D. H. Co., Buffalo, N. Y.
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United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Williams, White & Co., Moline, Ill.
Young Machine & Tool Co., 211 Center, New York, & Worcester, Mass.

## 10390—Shears (Pruning)

Carver Tool Works ("Carver's"), Spring Valley, N. Y.
Clauss Shear Co. ("Clauss Buckeye"), Fremont, O.
Columbian Cutlery Co., Reading, Pa.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Clyde Cutlery Co. (Hedge, etc.), Clyde, O.
Detroit Shear Co., Detroit, Mich.
Eichelman, C. W., Rochester, N. Y.
Field Force Pump Co. ("The Niagara" & "Henry"), Elmira, N. Y.
Henry, John T. Mfg. Co., Hamden, Conn.
Henry & Allen (Pruning Knives), Auburn, N. Y.
International Cutlery Co. ("New Buckeye"), Fremont, O.
Kohler, F. E. & Co. (California Pattern), Can-
**Little Giant Mfg. Co., Saugatuck, Mich.** ton, O.
Nagley Mfg. Co. ("Diamond"), Lyons, N. Y.
Ney, V. L. Co., Canton, O.
Oshkosh Mfg. Co. ("Excelsior"), Oshkosh, Wis.
Rhodes Mfg. Co. ("Rhodes" Double Cut), Grand Rapids, Mich.
Smith, Seymour & Son ("Royal", "Imperial", "Concord", "Granger", "Taylor", "Levin", "California", "Rockdale", "Smith's Ideal", "Oakland," "Redlands," "Standard," "Telephone"), Oakville, Conn.
Wiss, J. & Sons Co. (Solid Steel), Newark, N. J.

## 10391— Shears (Rotary)

Badger State Machine Co., Janesville, Wis.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Detrich & Harvey Mach. Co. (Slitting), Baltimore, Md.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Ham, L. M. & Co., 152 Portland, Boston, Mass.
Heartley Machine, Variety Iron & Tool works, Toledo, O.
**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Lennox Machine Co. (Beveling & Splitting), Marshalltown, Ia.
McSherry Mfg. Co., Pittsburg, Pa.
McWilliams, Thomas, Providence, R. I.
Michigan Press Co. ("Michigan"), Ypsilanti, Mich.
Morgan Construction Co., Worcester, Mass.
Newbold, R. S. & Son Co., Norristown, Pa.
**NIAGARA MACHINE & TOOL WORKS,** Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (Slitting), Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Perkins Machine Co., Warren, Mass.
Rock River Machine Co. ("Badger"), Janesville, Wis.
**RYERSON, JOS. T. & SON ("Len-** nox"), 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Toledo Machine Co., Toledo, O.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.

## 10392—Shears (Rotary Circle)

**BLISS, E. W. CO., 19 Adams, B'lyn,** N. Y. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 10393—Shears (Rotary, Pipe Cutting)

**FAWCUS MACHINE CO., 2820 Small-** man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Newbold, R. S. & Son Co., Norristown, Pa.
**RYERSON, JOS. T. & SON ("Len-** nox" Rotary Throat), 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

## 10394—Shears (Rotary Slitting)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Detrick & Harvey Mach. Co., Baltimore, Md.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Lennox Machine Co., Marshalltown, Ia.
**NIAGARA MACHINE & TOOL CO., Buf-** falo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Whelan, D. J. Est. of ("Capitol"), Troy, N. Y.

## 10395— Shears (Scrap)

**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CARLIN'S, THOS, SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Cedar Rapids Foundry & Machine Co. (Alligator Type), Cedar Rapids, Ia.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Danville Foundry & Machine Co. ("Little Giant" Portable Alligator), Danville, Pa.
Doelger & Kirsten, Milwaukke, Wis.
**FAWCUS MACHINE CO., 2820 Small-** man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil-** mington, Del. (See adv. index, end of book)
Meeks, J. Arthur (Low Housed Double Geared), Muncie, Ind.
**NIAGARA MACHINE & TOOL CO.,** (For Light Scrap), Buffalo, N. Y. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Turner, Vaughn & Taylor Co. (Wire Scrap), Cuyahoga Falls, O.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

## 10395a—Shears (Scroll)

**NIAGARA MACHINE & TOOL CO.,** Buffalo, N. Y. (See adv. index, end of book)

## 10396—Shears (Sheep, Grass & Hedge)

Clark & Parsons Co. ("Lightning"), Oakland, Me.
Columbian Cutlery Co. ("Wilcut"), Reading, Pa.
Cronk & Carrier Mfg. Co. ("Cron's" Grass), Elmira, N. Y.
Dunn Edge Tool Co., Oakland, Me.
Gay, Geo. E. ("Uncle Sam"), Augusta, Me.
Gowanda Agricultural Works (Dog or Sheep), Gowanda, N. Y.
Keiser Mfg. Co., Reading, Pa.
Smith, J. Barton Co., Norris & Hope, Phila., Pa.
Sweet-Clark Co. ("Universal", Lawn), Jamestown, N. Y.

## 10396a—Shears (Shoe Trimming)

Emrich, Phil ("Emrich"), Cincinnati, O.

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## 10397—Shears (Slitting)

Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
**BIRDSBORO STEEL FOUNDRY &** Machine Co., Birdsboro, Pa.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
Buffalo Forge Co. (Hand), Buffalo, N. Y.
**CLEVELAND PUNCH & SHEAR WORKS** Co., 1306 E 40th, Cleveland, O. (See adv. index, end of book)
Detrick & Harvey Machine Co. (Rotary), Baltimore, Md.
**DUDGEON, RICHARD (Hydraulic),** 24 Columbia, New York. (See adv. index, end of book)
Excelsior Tool & Machine Co., E St. Louis, Ill.
**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Fuller, Otis L. ("Rapid" Hand Power), Goshen, Ind.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
**HILLES & JONES CO., East Wil-**mington, Del. (See adv. index, end of book)
Indianapolis Elbow Co. ("Handy"), Indianapolis, Ind.
Keene, Geo. C. & Co., Cincinnati, O.
Kidder, J. F. Mfg. Co. ("Little Blacksmith"), Burlington, Vt.
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
Mersick, C. S. & Co. (Compound Lever & Pinion), New Haven, Conn.
Michigan Press Co. (Gang Slitters), Ypsilanti, Mich.
**NIAGARA MACHINE & TOOL** Works (Hand Slitting), Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (Also Rotary Slitting), Newark, N. J.
Pawtucket Mfg. Co., (52-inch), Pawtucket, R. I.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Rock River Machine Co. ("Badger"), Janesville, Wis.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
St. Louis Machine Tool Co., St. Louis, Mo.
Stoll, D. H. Co., Buffalo, N. Y.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Whelan, D. J. (Est. of) (Rotary), Troy, N. Y.
Whiting, Geo. Co., 1701 Elson av, Chicago, Ill.

## 10398—Shears (Splitting)

Alliance Machine Co., Alliance, O.
Bertsch & Co. ("Universal"), Cambridge City, Ind.
**CLEVELAND PUNCH & SHEAR WORKS** Co., Cleveland, O. (See adv. index, end of book)
Excelsior Tool & Machine Co., E. St. Louis, Ill.
**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices ,en dof book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**HILLES & JONES CO., East Wil-**mington, Del. (See adv. index, end of book)
Kling Bros., 1304 Hawthorne av, Chicago, Ill.
**LONG & ALLSTATTER CO. (Steam,** Belt or Motor Driven), Hamilton, O. (See adv. index, end of book)
New Doty Mfg. Co. (Hand & Power), Janesville, Wis.
**NIAGARA MACHINE & TOOL WORKS,** Buffalo, N. Y. (See adv. index, end of book)
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Rock River Machine Co. ("Badger," Steel Splitting, Hand or Power), Janesville, Wis.
**RYERSON, JOS. T. & SON ("Len-**nox" Rotary), 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slater, Marsden & Whittmore Co. (Hand Power), Beloit, Wis.
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.
Williams, White & Co., Moline, Ill.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Philadelphia, Pa.

## 10399—Shears (Squaring)

Aetna Foundry & Machine Co. (For Tin & Sheet Mills), Warren, O.
Ams, Max Machine Co. (Can Makers, etc.), Mount Vernon, N. Y.
Ayars Machine Co. (For Can Making, etc.), Salem, N. J.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co. (Combined Multiple Punch & Shear), Cambridge, Ind.
**BLISS, E. W. CO., 19 Adams, Brooklyn,** N. Y. (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Excelsior Tool & Machine Co. ("Excelsior" Double Geared), East St. Louis, Ill.
**FAWCUS MACHINE CO., 2820 Small-**man, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
**HILLES & JONES CO., East Wil-**mington, Del. (See adv. index, end of book)
Johnson, Israel H., Jr., Co., Phila., Pa.
Lay & Nawrath Co. (Foot & Belt Power) Newark, N. J.
McSherry Mfg. Co. (Power), Pittsburg, Pa.
Mesta Machine Co., Lewis blk, Pittsburg, Pa.
Michigan Press Co. ("Michigan"), Ypsilanti, Mich.
**MORGAN ENGINEERING CO., Al-**liance, O. (See adv. index & branch office, end of book)
National Roll & Foundry Co., Avonmore, Pa.
New Doty Mfg. Co., Zanesville, Wis.
**NIAGARA MACHINE & TOOL W'KS** (Power & "Queen City", Foot Power), Buffalo, N. Y. (See adv. index, end of book)
**NORTH AMERICAN METALINE CO.,** 4 West av., Long Island City, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (Heavy & Light), 157 Oraton, Newark, N. J.
Peck, Stow & Wilcox Co. (For Sheet Metal), Southington, Conn.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
Perkins Machine Co. (Metal Squaring & Circle), Warrent, Mass.
Phillips & McLaren, Pittsburg, Pa.
Stoll, D. H. Co., Buffalo, N. Y.
**TOLEDO MACHINE & TOOL CO.,** Toledo, O. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (For Tin Plate & Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.
Vulcan Foundry & Machine Co., New Castle, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn
Whiting, Geo. Co., 1701 Elston av, Chicago, Ill.
Young Machine & Tool Co., 211 Center, New York & Worcester, Mass.

## 10400—Shears (Tobacco)

Black, John B. ("Brady's"), Chester, Pa.
Nagley Mfg. Co. (Cutting Tobacco in the Field), Lyons, N. Y.

## 10401—Shears (Vertical)

**HILLES & JONES CO., East Wil-**mington, Del. (See adv. index, end of book)
National Machinery Co., Tiffin, O.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**UNION FOUNDRY & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
United Engineering & Foundry Co. (For Rolling Mills), Pittsburg, Pa.

## 10402—Shears (Wire, Rod, Etc.)

Smith & Egge Mfg. Co. ("Eureka"), Bridgeport, Conn., & 62 Reade, New York

## 10403—Shears & Punches (Combined)

**Armstrong-Blum Mfg. Co. ("Marvel," Hand or** Lever), 337 N Francisco, Chicago, Ill.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Excelsior Tool & Machine Co., E. St. Louis, Ill.
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
**HILLES & JONES CO., East Wil-**mington, Del. (See adv. index, end of book)
Kilby Mfg. Co., Cleveland, O.
**PELS, HENRY & CO. (Unbreakable** Rolled Steel Frame), West & Albany, New York. (See adv. index, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Schuchardt & Schulte (Hand Power), 90 West, New York
Young Machine & Tool Co., 211 Center, New York, & Worcester, Mass.

## 10404—Shears & Scissors

Acme Shear Co., Bridgeport, Conn.
American Shear & Knife Co. (Shears), Hotchkissville, Conn.
Allentown Reed Harness & Mill Supply Co., Allentown, Pa.
Atlas Shear Co. ("Alvord"), Bridgeport, Conn.
Bens, Wm. Co. (Silver Mounted), Providence, R. I.
Berridge Shear Co. (High Grade Steel Laid), Sturgis, Mich.
Boker, Herman & Co. (Imported), 101 Duane, New York
Bridgeport Hdw. Mfg. Co. (Button Hole, School, Pocket, Barbers', Self Sharpening, Combined Pocket Scissors & Cigar Cutter, etc.), Bridgeport, Conn.
Case, W. R. & Sons Cutlery Co., Bradford, Pa.
Challenge Cutlery Corporation, Bridgeport, Conn.
Clauss Shear Co., Fremont, O.
Clayton Bros., Bristol, Conn.
Codding & Heilborn Co. (Silver Mounted), North Attleboro, Mass.
Compton, W. H. Shear Co. ("Reliance"), Newark, N. J.
Cronk & Carrier Mfg. Co. (Shears & Screw Button Hole Scissors, etc.), Elmira, N. Y.
Emrich, Phil ("Emrich," Tailors' Shears, etc.), Cincinnati, O.
Foster, Theo. W. & Bro. Co. (Silver), Providence, R. I.
Graef & Schmidt ("J. A. Henckel's Twin Works"), 107 Duane, New York
Heinisch's, R. Sons Co. (Pocket), Newark, N. J.
International Cutlery Co. (Shears), Fremont, O.
Jackson Shear & Razor Co., Fremont, O.
Kastor, Adolph & Bros. ("W. H. Morley & Sons", Imported), 109 Duane, New York
Lennox Shear Co., Brookfield, Conn.
Mount Pleasant Tool Co. (Pocket), Mount Pleasant, Pa.
National Cutlery Co. (Buttonhole), Westmoreland & Boudinot, Philadelphia, Pa.
Novelty Cutlery Co. (Folding Scissors), Canton, Ohio
Robeson Cutlery Co., Rochester, N. Y.
Schatt & Morgan Cutlery Co. (Buttonhole), Titusville, Pa.
Spaulding, D. S. (Silver Mounted), Mansfield, Mass.
Sperry & Alexander Co. ("Century"), 20 Warren, New York
Wallace, R. & Sons' Mfg. Co. (Buttonhole, Embroidery, Folding, Ladies', Manicure, Pocket), Wallingford, Conn.
Waterville Cutlery Co. ("Babcock" Patent Shears), Waterville, Conn.
White, Ira F. & Son Co., Bloomfield, N. J.
Wiebush & Hilger (Ltd.) (Bent, Buttonhole, Embroidery, Pocket), 106 Lafayette, New York
Wiss, J. Sons Co. (Barbers', Buttonhole, Pocket), Newark, N. J.

## 10404a—Sheave Bushing (Tackle Block)

**NORTH AMERICAN METALINE CO.,** 4 West av, Long Island City, N. Y. (See adv. index, end of book)

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## 10405—Sheave or Pulley Filling (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.), Detroit, Mich.
**NEW YORK RUBBER CO., Reade** & Church, New York. (See adv. index, end of book)

## 10405a—Sheave Wheels & Frames

**LESCHEN, A. & SONS ROPE CO.** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## 10406—Sheaves (Ball Bearing Show Case)

Johnston & Sharpe Mfg. Co., Ottumwa, Ia.

## 10407— Sheaves (Door)

Brewer Bros. (Anti-Friction Run), 614 Filbert, Phila., Pa.
Corbin Cabinet Lock Co. (Cast Brass Sliding Door Sheave & Rail), New Britain, Conn.
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Stowell Mfg. & F'dry Co., S. Milwaukee, Wis.
Wrightsville Hardware Co. (Also Sliding Door), Wrightsville, Pa.

## 10407a—Sheaves (Gravity)

**CARLIN'S THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)

## 10408— Sheaves (Pulley)

**LESCHEN, A. & SONS ROPE CO.** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Piqua Handle & Mfg. Co. (Wooden), Piqua, O.

## 10409—Sheaves (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.

## 10410—Sheaves (Tackle Block)

(See also Blocks, Tackle)

Boston & Lockport Block Co., Boston, Mass.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Cleveland Block Co., Cleveland, O.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Dubuar, C. L., Northville, Mich.
Laughlin, Thos. Co., Portland, Me.
**LESCHEN, A. & SONS ROPE CO.** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Marine Hardware & Equipment Co., South Portland, Me.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Trenton Iron Co., Trenton, N. J., & 30 Church, New York
Union Hardware Co., Torrington, Conn.
Wilcox, Crittenden & Co. (Ball Bearings, etc.), Middletown, Conn.

## 10411—Sheaves (Wire & Manila Rope)

(See also Machinery, Power Transmitting)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Bates Machine Co., Joliet, Ill.
Bellwood Mfg. Co. (Rope), Bellwood, Pa.
Boston & Lockport Block Co. (Rope), Boston, Mass.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works: Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SONS CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of boo)
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Cockburn Co., Jersey City, N. J.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Crawford & McCrimmon Co. (Wrought Iron Spoke, Rope Sheaves Only), Brazil, Ind.
Cresson, Geo. V. Co., Allegheny av, W of 17th. Phila., Pa.
Davis, R. M. Iron Works Co., Denver, Colo.
**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
Falls Clutch & Machinery Co., Cuyahoga Falls, O.
Garland, M. Co., Bay City, Mich.
Great Western Mfg. Co., Leavenworth, Kan.
Gustafson Mfg. Co., Chattanooga, Tenn.
Helmick Foundry & Machine Co. (Chilled Curve Wire Rope Only), Fairmont, W. Va.
Herron-Webb Engineering Co., Monongahela, Pa.
Hill Clutch Co., Cleveland, O.
Howard Iron Works, Buffalo, N. Y.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**INSLEY MFG. CO. (12 & 14 in. Wire** Only), Indianapolis, Ind. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Jones, W. A. Foundry & Machine Co., 1401 W North av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lake Shore Engine Works, Marquette, Mich.
**LESCHEN, A. & SONS ROPE CO.,** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY, Hunting** Park av. & Reading Ry, Phila, Pa. (See adv. index & branch offices, end of book)
**MACOMBER & WHYTE ROPE CO.,** 507 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)
Marseilles Mfg. Co., East Moline, Ill.
**MEAD-MORRISON MFG. CO., Cambridge,** (Boston), Mass. ( See adv. index & branch offices, end of book)
Medart Patent Pulley Co., St. Louis, Mo.
Mine & Smelter Supply Co., Denver, Colo., & 43 B'way, New York
**MINNEAPOLIS STEEL & MACHIN-** ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Nelsonville Foundry & Machine Co., Nelsonville, O.
Nordyke & Marmon Co., Indianapolis, Ind.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Portland Co. (Rope & Power Transmitting), Portland, Me.
Pyott Co., 945 Carroll av, Chicago, Ill.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Scottdale Foundry & Machine Co., Scottdale, Pa.
Skillin & Richards Mfg. Co., 46th av & Courtland, Chicago, Ill.
Stevens-Adamson Mfg. Co., Aurora, Ill.
Stine, J. C. Co. (Gravity Plane), Tyrone, Pa.
Stine, S. B., Osceola Mills, Pa.
**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index, end of book)
**UNION ELEVATOR & MACHINE CO.,** Pittsburg, Pa. (See adv. index, end of book)
Union Foundry & Machine Co., Pittsburg, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
**WELLER MFG. CO., 853 E North av,** Chicago, Ill. (See adv. index, end of book)
Wellman-Seaver-Morgan Co., Cleveland, O.
Western Block Co. (Rope), Lockport, N. Y.
Wood's, T. B. Sons Co. (Manila Rope), Chambersburg, Pa.

## 10412—Sheaves with Graphite Bronze or Metaline Bronze

**DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO.,** 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

## Sheaves (Wood Split)

(See Pulleys, Wood Split)

## 10413—Shedders (Fodder)

Appleton Mfg. Co., Batavia, Ill.
Dick, Jos. Agricultural Works, Canton, O.
Keystone Mfg. Co., Sterling, Ill.
Silver Mfg. Co. ("New Ohio"), Salem, O.

## 10414—Sheet Iron (Cold Rolled)

Youngstown Sheet & Tube Co., Youngstown, O.

## 10415—Sheet Metal Borders & Friezes

Broschart & Braun, 601 W 130th, New York
**BURTON, W. J. CO., 161 W. Con-** gress, Detroit, Mich. (See adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eg-** gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Frand, M. J. & Co., 112 Arch, Camden, N. J.
**FRIEDLEY-VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
Hergert, Theo. E., 422 E 53rd, New York
Miller & Doing, 83 Wash.'n, Brooklyn, N. Y.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**PRUDEN, C. D. CO., Warner, Bayard** & Dock, Baltimore, Md. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Thoresen, Wm., 1916 W North av, Chicago, Ill.

## 10416—Sheet Metal Goods Mfrs.

(See also Stamping, Sheet Metal)

**EDWARDS MFG. CO. (To Order)** 545-565 Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Jenkinson, R. C. & Co. (By Automatic Machines), Newark, N. J.
**PARKER, JNO. L. CO. (Seamless),** Worcester, Mass. (See adv. index, end of book)
Special Machinery Co., Bridgeport, Conn.

## 10417—Sheet Metal Statuary

**EDWARDS MFG. CO., 545-565 Eg-** gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**FRIEDLEY-VOSHARDT CO. (Inc.),** 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
Hergert, Theo. E., 422 E 53d, New York
Mesker Bros., 421 S 6th, St. Louis, Mo.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

## 10418—Sheet Metal Work

**GLOBE MACHINE & STAMPING CO.,** 3868 Mamilton av, Cleveland, O. (See adv. index, end of book)
**WHITLOCK COIL PIPE CO., Hart-** ford, Conn. (See adv. index, end of book)

## 10419—Sheet Metal & Strip Stock Straighteners & Cutters (Automatic)

**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

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## 10420—Sheet Metals (Plated)

American Nickeloid Mfg. Co. (Nickelzinc, Nickeltin, Brasszinc, etc.), Peru, Ill.
National Sheet Metal Co. (Nickel, Brass, Copper & Bronze, Tin & Zinc), Peru, Ill.

## 10422—Sheets (Alumaloyd)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)

## 10423—Sheet (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
Electric Smelting & Aluminum Co., Lockport.
Scovill Mfg. Co., Waterbury, Conn. N. Y.

## 10424— Sheets (Bronze)

Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Michigan Copper & Brass Co., Detroit, Mich.
Pilling Brass Co. (Thin Gauge for Platers), Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.

## 10425—Sheets (German Silver)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
Benson, H. K. & F. S., Glen Ridge, N. J.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Chicago Brass Co., Kenosha, Wis.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Electrical Alloy Co., Morristown, N. J.
**HUNGERFORD, U. T. BRASS & COP-**per Co. (Sheets or Rolls), 497 Pearl, New York
**MERCHANT & EVANS CO. (Inc.)** (Sheets & Rolls), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Pilling Brass Co. (Thin Gauges for Platers, etc.), Waterbury, Conn.
Riverside Metal Co., Riverside, N. J.
Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mills (Inc.), Waterbury, Conn.

## 10426—Sheets (Manganese)

American Manganese Bronze Co., 99 John, New York

## 10426a—Sheets (Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York

## 10427— Sheets (Nickel)

Boker, Hermann & Co., 101 Duane, New York
**DRIVER-HARRIS WIRE CO. (Pure** Maileable), Harrison, N. J. (See adv. index & branch offices, end of book)
Electrical Alloy Co., Morristown, N. J.

## 10428—Sheets (Phosphor Bronze)

Phosphor Bronze Smelting Co. ("Elephant" Brand), 2200 Wash'n av, Phila., Pa.

## 10429—Sheets (Toncan Metal)

**BERGER MFG. CO. (Black & Gal-**vanized), Canton, O. (See adv. index & branch offices, end of book)

## 10429a— Shelf Supports

National Lock Co. (Library, Bookcase, etc.), Rockford, Ill.

## 10430— Shellac

Berry Bros. Limited (Bleached), Detroit, Mich.
Day, James B. & Co., 20 E Illinois, Chicago, Ill.
Feigel, M. & Bro. (Bleached, Varnish, etc.), 80 W Houston, New York
**FOX, M. EWING & CO. (Gum &** Varnish), 240 E. 136th, New York. (See adv. index, end of book)
MacLac Co., Rahway, N. J.
Marx & Rawolle (Orange Bleached & Varnishes), 100 William, New York
New York Shellac Co., 229 Pearl, New York
Rogers & Pyatt (Orange & Bleached), 79 Water, New York
Scheel, Wm. H., 159 Maiden La., New York
Zinser, Wm. & Co. (Bleached & Refined), 197 William, New York

## 10431— Shellers (Corn)

American Bell & Foundry Co., Northville, Mich.
American Seeding Machine Co. (Inc.), Richmond, Ind.
Ames Plow Co., Quincy Hall, Boston, Mass.
Appleton Mfg. Co., Batavia, Ill.
**BARTLETT, C. O. & SNOW CO.,** French st, Cleveland, O. (See adv. index, end of book)
Barnard & Leas Mfg. Co. ("Victor"), Moline, Ill.
Bayley, Wm. Co., Springfield, O. Mass.
Belcher & Taylor Ag'l Tool Co., Chicopee Falls,
Billups, C. Son & Co., Norfalk, Va.
Brinley-Hardy Co. ("Red Chief"), Louisville, Ky.
Bristol & Gale Co., 158 W North Water, Chicago, Ill.
Buch's, A. Sons Co., Elizabethtown, Pa.
Challenge Co., Batavia, Ill.
Connor, J. W. & Son, Orangeville, Pa.
Donaldson Bros., Mount Clemens, Mich.
Dunham Co., Berea, O.
Eagle Machine Co., Lancaster, O.
Elgin Wind, Power & Pump Co., Elgin, Ill.
Ellis Keystone Agricultural Works ("Cannon" Sheller & Cleaner, with Bagger, etc.; also "Pottstown" & Double Sheller), Pottstown, Pa.
Eureka Mower Co., Utica, N. Y.
**FAIRBANKS, MORSE & CO. (Two** Hole Feed, etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.), York, Pa.
Foos Mfg. Co., Springfield, O.
Freeman, S. & Sons Mfg. Co. (Hand, etc.), Racine, Wis.
Genesee Valley Mfg. Co. (Hand & Power), Mount Morris, N. Y.
Great Western Mfg. Co., Leavenworth, Kan.
Haish, Jacob Co., De Kalb, Ill.
Harrison, W. R. & Co., Massillion, O.
Heath Foundry & Mfg. Co., Plymouth, O.
Hench & Dromgold Co., Inc., York, Pa.
Hocking Valley Mfg. Co., Lancaster, O.
Howell, R. R. & Co., Minneapolis, Minn.
Humphrey & Sons, Joliet, Ill.
Huntley Mfg. Co., Silver Creek, N. Y.
Hutchison, Jno. Mfg. Co., Jackson, Mich.
**INTERNATIONAL HARVESTER CO.** of America ("Keystone," "Pony," One-Hole Hand, "Keystone," "X-L," Two-Hole Hand or Power, "Keystone," "Keynote" Two-Hole Self-Feed, "Keystone" Four-Hole, "Keystone" Six-Hole), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Joliet Mfg. Co., Joliet, Ill.
Keystone Farm Machine Co., York, Pa.
King & Hamilton Co., Ottawa, Ill.
Kingman & Co., Peoria, Ill.
Lehr Agricultural Co., Fremont, O.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Luthy & Co., Peoria, Ill.
McGrath, R. H. (For Warehouse), Lafayette, Ind
Mann, F. W. Co. (Ball Bearing), Milford, Mass
Marseilles Mfg. Co. ("Cyclone" Spring, "New Marseilles" & "New Process" Cylinders. Power & Hand), East Moline, Ill.
Messinger Mfg. Co. (Power & Hand), Tatamy, Pa
Minneapolis Threshing Machine Co. (Power), Minneapolis, Minn.
Minneapolis Traction Machine Co. (Power), Hopkins, Minn
Moore Plow & Implement Co., Greenville
Mountville Mfg. Co., Mountville, Pa. Mich.
Munnsville Plow Co. ("Old Burrall"), Munnsville, N. Y
New Winona Mfg. Co., Winona, Minn.
Nordyke & Marmon Co. (Hand & Power), Indianapolis, Ind
Noye Mfg. Co., Buffalo, N. Y.
Ohio Rake Co. (Hand), Dayton, O.
Patch, A. H. ("Black Hawk," Hand), Clarksville, Tenn.
Peppler, Thos., Hightstown, N. J.
Perkins Wind Mill Co., Mishawaka, Ind.
Port Huron Engine & Thresher Co. (Power Shelters), Port Huron, Mich.
Reeves & Co. (Cylinder), Columbus, Ind.
**ROCK ISLAND MFG. CO., ROCK** Island, Ill. (See adv. index & branch offices, end of book)
Rock River Machine Co. (Hand), Janesville Wis
Salem Iron Works, Winston-Salem, N. C.
Sandwich Mfg. Co. (Horse & Steam Power & Centrifugal), Sandwich, Ill.
Smalley Mfg. Co., Manitowoc, Wis.
Spangler Mfg. Co., York, Pa.
**SPROUT, WALDRON & CO., ("Mo-**narch"), Muncy, Pa. (See adv. index, end of book)
Star Mfg. Co., Carpenterville, Ill.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Tiffin Wagon Co., Tiffin, Ohio
**UNION IRON WORKS ("Western"** Power), 630 E William, Decatur, Ill. (See adv. index, end of book)
U. S. Wind Engine & Pump Co., Batavia, Ill.
Watts Mfg. Co. ("Watts", Power), Jackson, Mich.
Whitaker Mfg. Co., 509 W Monroe, Chicago,
White, S. R. & Bro., Norfolk, Va. Ill.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co. (Hand & Power), St. Louis, Mo.

## 10432— Shells (Brass)

**WORCESTER PRESSED STEEL CO., Wor-**cester, Mass. (See adv. index & branch offices, end of book)

## 10433—Shells (Button & Knife Handle)

John, Chas. W., Cincinnati, O.

## 10434—Shells (Coke Oven)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## 10435— Shells (Core)

Imperial Iron Works (For Diamond Drills), Duluth, Minn.

## 10436— Shells (Roll)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
Inter-Ocean Steel Co., Railway Ex., Chicago, Ill.
Standard Steel Works Co. ("Standard" Solid Weldless), Harrison bldg, Phila., Pa.

## 10437—Shells (Rolled Chrome Steel)

Chrome Steel Works, Chrome, N. Y.

## 10437a—Shells (Seamless Steel)

(See also Cylinders & Shells, Seamless Pressed Steel)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10438—Shells (Straight & Taper Bore)

Railway Steel Spring Co. (Weldless Forged & Rolled Steel), 30 Church, New York

## 10439—Shelves (Expansion Tank)

Tyler, Frederick A. ("Quickest"), Albany, N. Y.

## 10439a— Shelves (Glass)

Falconer Mirror Co., Falconer, N. Y.

## 10440—Shelving (Glass Front, Sectional)

Warren, J. D. Mfg. Co., Masonic Temple, Chicago, Ill.

## 10440a—Shelving (Newspaper)

**SNEAD & CO. IRON WORKS (Steel),** ft of Pine, Jersey City, N. J. (See adv. index, end of book)

## 10441— Shelving (Shop)

(See Shelving, Steel)

## 10442— Shelving (Steel)

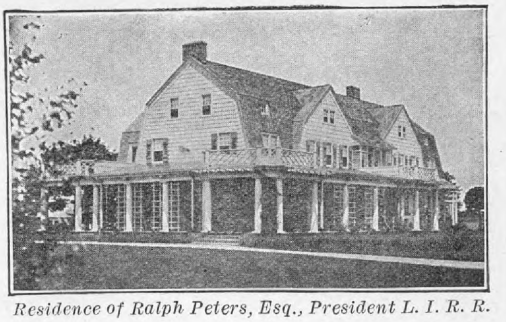
Art Metal Construction Co., Jamestown, N. Y.
**BERGER MFG. CO., THE (Plain &** Roller), Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
Bernstein Mfg. Co., 3d & Allegheny, Phila.,
Davis Mfg. Co., Milwaukee, Wis. Pa.
**DARBY, EDW. & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of book)

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## Creosote Shingle Stains

**The Standard Stains for Shingles, Siding, Trimmings and Other Exterior Woodwork**

They are not merely thinned paints, but **real stains,** made of the strongest and finest pigments, without barytes, benzine or any other adulterant. The colors are therefore soft, rich and transparent, and guaranteed fast; and the Creosote thoroughly preserves the wood.



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For waterproofing all brickwork and for coloring brickwork that needs coloring. Restores old, faded or mismatched brick to a natural, even brick tone. No painty effect.

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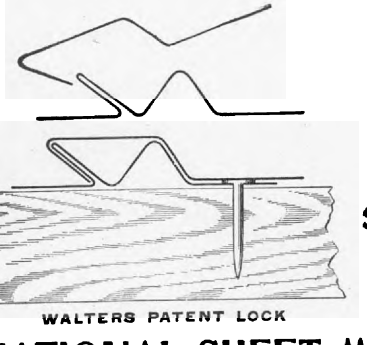
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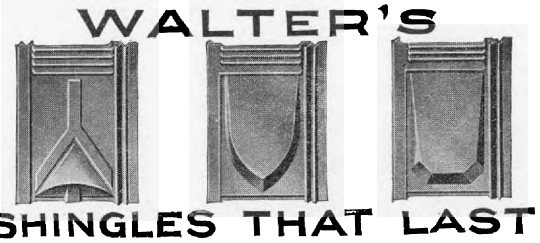
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Edwards, O. M. Co., Syracuse, N. Y.
**FIRE-PROOF FURNITURE & CON-**struction Co., Miamisburg, O. (See adv. index, end of book)
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
Heller, W. C. & Co. (Hardware), Montpelier, Ohio
Jeffries, Richard Co. ("Jeffries" Pressed Steel), Camden, N. J.
Kalamazoo Steel Goods Co., Kalamazoo, Mich.
**LYON METALLIC MFG. CO. (For All** Purposes), Aurora, Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co., So. Framingham, Mass.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
**Ohio Mfg. Co., Painesville, O.**
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
**Steel Fixture Mfg. Co. (Vault, etc.), Topeka, Kans.**
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)
**Van Dorn Iron Works Co.** (Steel Roller Book Shelves), Cleveland, O.

## 10443– Sherardizing

**GLOBE MACHINE & STAMPING CO.** (Dry Galvanizing), 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
**LUNKENHEIMER CO., Waverly pl** & Beekman, Cincinnati, O. (See adv. index, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
New Haven Sherardizing Co., New Haven, Conn.
Standard Galvanizing & Mfg. Co., Cleveland, Ohio

## 10443a–Sherardizing Equipment

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
United States Sherardizing Co., New Castle, Pa.

## 10443b–Shields (Expansion)

**STAR EXPANSION BOLT CO. ("Star"),** 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 10444– Shields (Gear)

**Avery** Stamping Co. ("Never-Break"), Cleveland, O.

## 10445–Shields (Lubricator Glass)

Leonhardt Safety Water Lubricator Glass Shield ("Leonhardt"), 167 Dearborn, Chicago, Ill.

## 10445a– Shims

**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)

## 10446– Shiners (Shoe)

Andrews, A. H. Co. (Handy, Portable Metal, Combined Seat & Rest), 174 Wabash av, Chicago, Ill.
**Piqua** Bracket Co. ("Gem" Shoe Holder & Polisher), Piua, O.

## 10446a–Shingle Holders (Steel)

**TALOR, JAS. L. MFG. CO., Bloom-**field, N. J. (See adv. index, end of book)

## 10447– Shingle Stains

**Acme** White Lead & Color Works, Detroit, Mich.
Adams & Elting Co. (Asbestine), 722 W Washington, Chicago, Ill.
American Wood Preserving Co. ("Antiseptic"), 1351 N Branch, Chicago, Ill.
Arlington Mfg. Co., Canton, Ohio
Atlantic Pain Co. ("Atlantic"), Cleveland, O.
Berry Bros. (Ltd.) (Singletint), Detroit, Mich.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Davis, H. B. Co., Keyser bldg, Baltimore, Md.
Dexter Bros. Co., Boston, Mass.
Forest City Paint & Varnish Co., 3334 Lakeside av, Cleveland, O.
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)
Horn, A. C. Co., 8 Burling slip, New York
Indianapolis Chemical Co., Indianapolis, Ind.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Kettle River Co. (Creosote), Minneapolis, Minn.
Lawrence, W. W. & Co., Pittsburg, Pa.
Menzel, Wm. & Son, 68 Broad, New York
Minneapolis Wood Preserving & Stain Co. ("Peerless"), Minneapolis, Minn.
Moore, Benj. & Co., 231 Front, Brooklyn, N. Y.
Mound City Paint & Color Co., St. Louis, Mo.
**NEVIN, T. H. CO., North Side, Pitts-**burg, Pa. (See adv. index, end of book)
Northwestern Mfg. Co., Indianapolis, Ind.
Ohio Chemical Co., Findlay, O.
**Ohio Paint & Stain Co., Findlay, O.**
Parker, Preston & Co. (Inc.) (Waterproof & Odorless), Norwich, Conn.
Patton Paint Co. ("Patton's," Paste), Milwaukee, Wis.
**Price Fireproofing Co. (Fireproofing Creosote), Poughkeepsie, N. Y.**
Sherwin-Williams Co., Cleveland, O.
Spirittine Chemical Co. (Spirittine Creosote), Wilmington, Del.
Sonneborn, L. Sons (Inc.) ("Shingleedges"), 262 Pearl, New York
Stewart, W. H. Mfg. Co., 65 Delaware, Brooklyn, N. Y.
Union Roofing & Mfg. Co. ("Petrosote" Preservative), St. Paul, Minn.
Vilas Bros. ("Impervious"), 227 5th av, Chicago, Ill.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
Whitehead, J. W., Jr. ("Whitehead"), 1 Madison av, New York
Wilhelm, A. Co. ("Fernoleum"), Reading, Pa.
Woodlife Co. ("Woodlife"), Brooklyn, N. Y.

## 10448–Shingle Stains (Creosote)

**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)

## 10449–Shingles (Asbestos)

Asbestos Shingle, Slate & Sheathing Co. ("Century"), Ambler, Pa.
**JOHNS, H. W.-MANVILLE CO.** "J-M Transite"), 100 William, New York (See adv. index & branch offices, end of book)

## 10450– Shingles (Asphalt)

Winthrop Asphalt Shingle Co., Women's Temple, Chicago, Ill.

## 10451–Shingles (California Redwood)

(This is a Selected List for Buyers; see also Lumber Manufacturers)

Albion Lumber Co., San Francisco, Cal.
Burns, M. A. Mfg. Co., Eureka, Cal.
California Redwood Shingle Co., Eureka, Cal.
Casper Lumber Co., Casper, Cal.
Dolbeer & Carson Lumber o., San Francisco, Eureka Mill Co., Eureka, Cal. Cal.
Gray's Harbor Commercial Co., San Francisco,
McKay & Co., San Francisco, Cal. Cal.
Minneapolis Cedar & Lumber Co., Minneapolis, Minn.
Nelson, Charles Co., San Francisco, Cal.
Pacific Lumber Co., San Francisco, Cal.
Press, Whiling, G. Co., Eureka, Cal.
San Diego Lumber Co., San Francisco, Cal.
Tacoma Mill Co., San Francisco, Ca., & Tacoma, Wash.
Union Lumber Co., San Francisco, Cal.
Waite, H. B. Lumber Co., Minneapolis, Minn.

## 10452– Shingles (Cedar)

(This is a Selected List for Buyers; see also Lumber Manufacturers)

Atlas Lumber & Shingle Co. (Red Cedar), Seattle, Wash.
Carpenter, W. I. Lumber Co. (Red Cedar), Minneapolis, Minn.
Chicago Lumber & oal Co. (Red Cedar), St. Louis, Mo.
Commercial Shingle Co. (Red Cedar), Bellingham, Wash.
David, Lester W. Co. (Red Cedar), Seattle, Wash.
Eatonville Lumber Co. (Red Cedar), Eatonville, Wash.
Gray's Harbor Lumber Co. (Red Cedar), San Francisco, Cal.
McCormack Lumber Co. (Red Cedar), McCormack, Wash.
McNeeley, E. J. & Co. (Red Cedar), Tacoma, Wash.
Minneapolis Cedar & Lumber Co. (Red & White Cedar), Minneapolis, Minn.
Northwestern Lumber Co. (Red Cedar), Seattle, Wash.
North-Western Lumber Co. (Red Cedar), Hoquiam, Wash.
Parker-Bell Lumber Co. (Red Cedar), Seattle, Wash.
Pinkham, J. E. Lumber Co. (Red Cedar), Seattle, Wash.
Rainier Lumber & Shingle Co. (Red Cedar), Seattle, Wash.
St. Paul & Tacoma Lumber Co., Tacoma, Wash.
Schwager & Nettleton (Inc.), (Red Cedar), Seattle, Wash.
Seattle Cedar Lumber Co. ("Maltese Cross"), Seattle, Wash.
Sound Lumber Co. (Red Cedar), Seattle, Wash.
Waccaman Lumber Co., Bolton, N. C.
White, W. H. Co. (White Cedar), Buffalo, N. Y.
Wallace-Ballord Lumber Co. (Red Cedar), Minneapolis, Minn.
Wilson, Robt. S. (Red Cedar), Seattle, Wash.

## Shingles (Cement)

(See Roofing Tile, Cement)

## 10453–Shingles (Cypress)

(A Selected List for Buyers; see also Lumber Manufacturers)

Baker-Wakefield Cypress Co. (Ltd.), Pattenville, La.
Chicago Lumber & Coal Co., St. Louis, Mo.
Clover Leaf Lumber Co., Shreveport, La.
Dibert, Stark & Brown Cypress o., Donner, La.
Gibson Cypress Lumber Co., Gibson, La.
Good Land Cypress Co., New Orleans, La.
Louisiana Cypress Lumber Co. (Ltd.), Harvey, La.
Louisiana Red Cypress Co., New Orleans, La.
Lutcher & Moore Cypress Lumber Co., Lutcher, La.
Planters Lumber Co., Jeanerette, La. La.
Ruddock Orleans Cypress Co., New Orleans, La.
**STEARNS, A. T. LUMBER CO.,** Neponset, Boston, Mass. (See adv. index, end of book)
Switzer Lumber Co., Shreveport. La.
Tilghman, N. J. & Sons, Palatka, Fla.
Trinity River Lumber Co., Houston, Tex.

## 10453a–Shingles (Interlocking Terra Cotta)

**LUDOWICI-CELADON CO.** ("Ludowici-Celadon"), Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10454–Shingles (Metallic)

(See also Roofing Tile, Metallic)

**BERGER MFG. CO., THE, Main Of-**fice & Works: Canton, O. (See adv. index & branch offices, end of book)
Burris, Metal Shingle Co., Anderson, S. C.
**BURTON, W. J. CO. ("East Lake"** Hip Ornamental, etc.), 161 W Congress, Detroit, Mich. (See adv. index, end of book)
Butler Mfg. Co., Kansas City, Mo.
**CANTON MFG. CO. ("Standard"),** Canton, O. (See adv. index, end of book)
Chattanooga Roofing & Foundry Co. ("Century"), Chattanooga, Tenn.
Cincinnati Stamping Co. ("Regan's"), 24 W McMicker av, Cincinnati, O.
Cortright Metal Roofing Co., 50 N. 23d, Phila., Pa.
De Forest Sheet & Tin Plate Co., Niles, O.
**EDWARDS MFG. CO., 545-565 Eg-**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Eller Mfg. Co. ("Champion" Lock Joint), Canton, O.
Empire Iron & Steel Co., Niles, O.
Foster, Wm. & Son Co. (Inc.), Springfield, Ill.
**HYNDMAN ROOFING CO. ("Security"** Brand, "Xlent"), 318 E 2nd, Cincinnati, O. (See adv. index, end of book)
**Indianapolis Corrugating Co., Indianapolis, Ind.**
Kanneberg Roofing & Ceiling Co., Canton, O.

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Georgia Metal Roof Co. ("Burriss"), Atlanta, Ga.
Kinnear & Gager Mfg. Co., Columbus, O.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Meurer Bros. Co. ("Unique"), 575 Flushing av, Brooklyn, N. Y.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
**MILWAUKEE ARTISTIC METAL** Ceiling Co. ("Titelock"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Moeschl-Edwards Corrugating Co. ("Just Right," "Magnolia"), Covington, Ky
Montross Metal Shingle Co., Camden, N. J.
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
**NATIONAL SHEET METAL ROOFING** Co. ("Walter's"), 339 Grand, Jersey City N. J. (See adv. index, end of book)
Newport Rolling Mill Co., Newport, Ky.
Norman, W. F. Sheet Metal Mfg. Co. (Hip), Nevada, Mo.
Penn Metal Ceiling & Roofing Co. ("The Sagendorf"), 23d & Hamilton, Phila., Pa
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
Ringle, Jacob & Son ("The Hamsley"), 85 Newark av, Jersey City, N. J.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sheet Metal Mfg. Co., Niles, O.
Southern, E. E. Iron Co. ("Souther's"), St. Tennison Bros., Houston, Tex. Louis, Mo.
Tiffin Art Metal Co. ("Neverleak"), Tiffin, O.
Watson, Jas. H. Co. (Inc.) ("Watson"), Bradley, Ill.
Wheeling Corrugating Co. (Tin or Galvanized), Wheeling, W. Va.
Wheeling Metal & Mfg. Co., Wheeling, W. Va.
Willis Mfg. Co., Galesburg, Ill.

## 10455–Shingles (Red Cedar)

(See Shingles, Cedar)

## 10456–Shingles & Tiling (Cluster)

**EDWARDS MFG. CO., 545-565 Eggleston** av, Cincinnati, O. (See adv. index & branch offices, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.

## 10457– Ship Builders

(See also Dry Docks & Marine Railways)

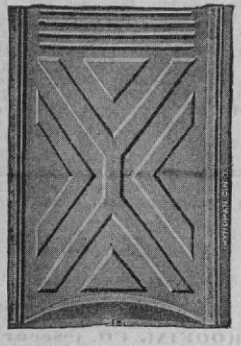
(Star (*) indicates those who build Iron & Steel; Section Mark (§) those who build Wooden; Dagger (†) those who build Iron, Steel & Wooden)

*American Car & Foundry Co. (Steel & Wooden Steamships, Ferry Boats, Barges, Car or Grain Floats, etc.), 915 Olive, St. Louis, Mo., & 165 B'way, New York
*American Ship Building Co., Cleveland, O.
*Atlantic Works (Steam Yachts), 70 Border, E. B., Boston, Mass.
§Barrett, John & Son (Tugs, River Vessels), Scows, etc.), Chamber of Commerce bldg, Cincinnati, O.
§Bates, J. B. & Co., 2424 S Halsted, Chicago, Ill.
*Bath Iron Works (Ltd.), Bath, Me.
§Bayles, J. M. & Son, Port Jefferson, N. Y.
§Beacham, J. S. & Bro., ft Warren av, Baltimore, Md.
§Bean, R. S. Co., Camden, Me.
§Blaisdell, N. & Sons, Bath, Me.
§Booz Bros., ft E Montgomery, Baltimore, Md.
§Bowker, F. S. & Son, Phippsburg, Me.
§British Columbia Marine R'y Co. (Ltd.), Esquimault, B. C.
§Brooks, John M., 139 Coleridge, E. Boston, Mass.
§Brown Dry Dock Co., Jersey City, N. J.
*Buffalo Dry Dock Co., Buffalo, N. Y.
§Burger, H. B., Jr., Manitowoc, Wis.
*Burlee Dry Dock Co., Port Richmond, Borough of Richmond, N. Y.
Cahill, W. S. Co., Baltimore, Md.
§Calvin Co., Garden Island, Ont.
§Camden Yacht Building & R'y Co. (Yachts, etc.), Camden, Me.
§Carleton Norwood & Co., Rockport, Me.
§Carl, J. Sr., Northport, N. Y.
*Carrier, Laine & Co., Levis, Que.
Chesapeake Marine R'way Co., Baltimore, Md.
Chicago Shipbuilding Co., 101st & Calumet River, Chicago, Ill.
§Cobb Bros. (Tugs, River Vessels, Scows, etc.), Brewer, Me.
§Cobb, Butler & Co., Rockland, Me.
*Cramp, Wm. & Sons, Ship & Engine Bldg. Co., Beach, c. Ball, Phila, Pa.
†Crane's Theo. A. Sons Co. (Tugs, River Vessels, Scows, Dry Docks, etc.), Erie Basin, Brooklyn, N. Y.
§Crawford & Reid, Tacoma, Wash.
§Crosby, H. Manley (Cat Boat Yawls, Launches, etc.), Osterville, Mass.
§Davidson, James, West Bay City, Mich.
§Davis Dry Dock Co., Kingston, Ont.
§Deering, G. G. & Co., Bath, Me.
*Detroit Ship Building Co., Detroit, Mich.
*Dialogue, J. H. & Son, Camden, N. J.
§Dickie, J. W. & Son, San Fransico, Cal.
§Drien, Thos. & Son (Metallic Life Boats), Wilmington, Del.
§Dunn & Elliott Co., Thomaston, Me.
§Electric Launch Co. (Electric Launches, etc.), Bayonne, N. J
§Ellis, J. S. & Son, Tottenville, S. I., N. Y.
§Emmons, E. Gerry, Corp. (Tugs, River Vessels, Scows, etc.), Swampscott, Mass.
§Empire Ship Building Co., Buffalo, N. Y.
§Englis, John & Sons, 34 Greenpoint av, Brooklyn, N. Y.
§Fenton, David Co. (Tugs, River Vessels Scows, etc.), Manchester, Mass
*Fletcher, W. A. & Co., Hoboken, N. J.
§Frentz, Geo., Scranton, Miss.
*Fore River Ship Building Co., Quincy, Mass.
*Gas Engine & Power Co. & Chas. L. Seabury & Co. (Launches, Yachts, etc.), Morris Heights, New York
§Gildersleeve Ship Building Co. (Coal Boats & Deck Scows), Gildersleeve, Conn.
§Gilmore's, A. Sons, Toledo, O.
§Goble, Geo. Est., Oswego, N. Y.
*Great Lakes Engineering Works, Detroit, Mich.
§Greenport Basin & Construction Co. (Tugs River Vessels, Scows, etc.), Greenport
§Grignon, Peter Jr., Duluth, Minn. N. Y.
§Hall Bros. Marine, Railway & Ship-Building Co. (Passenger & Power Boats), Winslow, Wash.
*Hamilton Bridge Works Co. (Ltd.), Hamilton, Ontario, Canada

Electric controlling devices for shipboard use. Built according to Navy Dept. specifications. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

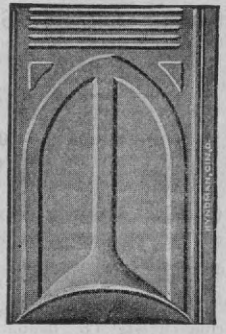
*Harlan & Hollingsworth Corp'n (Steamships, Steamboats, Tugboats, Ferryboats, Car Floats, Barges, etc.), Wilmington, Del.
*Herreshoff Mfg. Co. (Also Yachts, etc.), Bristol, R. I.
§Hiltebrandt, C., Roundout, Kingston, N. Y.
*Howard Ship Yards Co., Jeffersonville, Ind.
§Jacob, Robt. (Tugs, River Vessels, Scows, etc.), City Island, N. Y.
§Jakobson & Peterson (Scows, etc.), ft. of 24th, Brooklyn, N. Y.
*Johnson Iron Works (Ltd.) (Steamers, Barges & Lighters), Julia & Delta, New Orleans, La.
*Johnston Bros., Ferrysburg, Mich.
§Kelley-Spear Co., Bath, Me.
§Kenyon, A. P., Marine City, Mich.
§King & Winge, Seattle, Wash.
§Kingston Boat Co., Kingston, Ont.
§Kirby & Son, St. Michaels, Md.
§Kirk, Wm. P. (Tugs, River Vessels, Scows, etc.), Toms River, N. J.
§Kneas, Geo. W. (Tugs, River Vessels, Scows, etc.), 18th & Illinois, San Francisco, Cal.
§Laird, Jas. G. & Sons, Ashtabula, Ohio.
§Lake Torpedo Boat Co. (Submarine Torpedo Boats), Bridgeport, Conn.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

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*Lawley, Geo. & Son Corp., S. B., Boston, Mass
§Lindstrom Ship Building Co., Aberdeen, Wash.
†Lockwood Mfg. Co., 61 Sumner, E. B., Boston, Mass.
§Long Island Machine & Marine Construction Co., L. I. City, N. Y.
Lutcher & Moore Lumber Co., Orange, Tex.
§McKie, Wm., 100 Border, Boston, Mass.
*Manitowoc Dry Dock Co. (Steel Ships, Passenger Steamers, Fire Boats, Tugs, Dredges, Lighters, Scows, etc.), Manitowoc, Wis.
§Mar, Jno. E. & Son, West Haven, Conn.
*Marine Iron Works, 2036 Dominick, Chicago, Ill.
§Marine Railway Machine & Boiler Works, (Tugboats, etc.), Baltimore, Md.
§Mariton, Wm., Goderich, Ont.
§Marsh, Jas. T., Solomons, Md.
†Marvel, T. S. Shipbuilding Co., Newburgh, N. Y.
*Maryland Steel Co. (All kinds of Steam & Sailing Vessels & Barges), Sparrows Point, Baltimore, Md.
*Merrill-Stevens Co., Jacksonville, Fla.
†Michigan Steel Boat Co., Detroit, Mich.
†Milwaukee Dry Dock Co., Milwaukee, Wis.
§Montreal Transportation Co., Montreal, Que.
§Moran Co., Seattle, Wash.
§Muncy, Thos. F. (Yachts Only), Bay Shore, N. Y.
§Muir, Alex & Bros., Port Dalhousie, Ont.
§New England Co., Bath, Me.
*New York Ship Building Co., Camden, N. J.
*Newport News Ship Building & Dry Dock Co., Newport News, Va
§Nilson Yacht Bldg. Co. (Yachts, etc.), Baltimore, Md.
§Oades, Walter H., Detroit, Mich.
§Olligner & Bruce Dry Dock Co., Mobile, Ala.
§Paducan Dry Dock Co., Paducah, Ky.
§Palmer, R. & Son Shipbuilding & Marine Railway Co., Noank, Conn.
§Paquet, Joseph, 112 E. 12th, Portland, Ore.
§Percy & Small, Bath, Me.
§Penn & Lake Erie Dry Dock Co., Pittsburg, Pa.
§Perth Amboy Dry Dock Co., Perth Amboy, N. J.
*Poison Iron Works, Toronto, Can.
§Poillon, C. & R., N. Y. & Clinton, Brooklyn, N. Y.
Portland Co. (Freight & Passenger Steamboats, Towboats, etc.), Portland, Me.
*Pusey & Jones Co. (Yachts, Sailing & Steam Vessels), Wilmington, Del.
†Racine Boat Mfg. Co. (Steel Vessels, Canoes, Yachts, etc.), Muskegon, Mich.
Raritan Dry Dock Co. (Scows, Tugs, Barges, etc.), Perth Amboy, N. J.
§Read Bros., Fall River, Mass.
§Reiboldt Wolter & Co., Sturgeon Bay, Wis.
*Richmond Iron Works, Richmond, Va.
Riter-Conley Mfg. Co., Pittsburg, Pa.
§Rossiter, Chas. S. & Co. (Small Boats, Wooden & Metallic), 509 E Montgomery, Baltimore, Md.
§Ryan, John, Whitehall, N. Y.
§Sawyer Bros. Millbridge, Me.
§Sawyer, Warren, Millbridge, Me.
*†Sewall, Arthur & Co., Bath, Me.
*Ship Owners Dry Dock Co., 911 N Halsted, Chicago, Ill.
§Simpson Lumber Co., San Francisco, Cal.
§Skaneateles Boat & Canoe Co., Skaneateles, N. Y
*Skinner Ship Building & Dry Dock Co. Barges, Lighters, Car Floats, Tugs, etc.), Baltimore, Md.
§Smith, Abram & Sons, Algonac, Mich.
§Smith & McCoy, Norfolk, Va.
§Smith, Jno. P. Co., Nyack, N. Y.
§Snow, I. L. & Co., Rockland, Me.
*Spedden Ship Building So. (Steel & Wood), Baltimore, Md.
§Starin Ship Yard & Iron Works, Port Richmond, S. I., N. Y
§Stearns & McKay (Tugs, River Vessels. Scows, etc.), Marblehead, Mass
§Stone & Van Bergen (Tugs, River Vessels. Scows, etc.), San Francisco, Cal.
§Story, A. D., Essex, Mass.
*Superior Ship Building Co., Superior, Wis.
§Supple, Jos., Portland, Ore.
§Swanson, Peter, Tiburton, Cal.
§Swenson, Johan, ft. of Warren, Jersey City
§Tarr & James, Essex, Mass. N. J
§Thames Towboat Co., New London, Conn.
§THROPP'S, JNO. E. SONS CO. (Small Passenger Steamers, Tugs & Yachts Complete), ft. of Lewis, Trenton, N. J. (See adv. index, end of book)
*Toledo Ship Building Co., Toledo, Ohio
§Truscott Boat Mfg. Co., St. Joseph, Mich.
*United Engineering Works, San Francisco, Cal.
*Union Iron Works Co. (Battleships, Steamships, Steam Tugs), San Francisco, Cal.
§Vansant, Stanley G., Atlantic City, N. J.
§Washburn Bros., Thomaston, Me.
§Waterhouse, Frank & Co. (Inc.), Seattle, Wash.
§White, E. I., Machias, Me.
§Williams-Whittlesey Co. (Tugs, River Vessels, Scows, etc.), Long Island City, N. Y.
§Woodall, Wm. E. & Co., ft. Allen, Baltimore, Md.

## 10458— Ship Knees

Hoskins, J. S. Lumber Co., Baltimore, Md.
Pierce, Chas. W., Milo, Maine.
Portland Ship Building Co., Portland, Me.

## 10459— Shock Absorbers

Auto Spring Repairer Co. ("Bruce"), 123 Liberty, New York
Baldwin Chain & Mfg. Co. ("House"), Worcester, Mass.
Buffalo Specialty Co. ("Thomas"), 375 Ellicott, Buffalo, N. Y.
Diezemann Shock Absorber Co. ("Diezemann"), 1311 Hudson, Hoboken, N. J.
Duke, Oak ("Condac"), Wellsville, N. Y.
Gabriel Horn Mfg. Co. ("Foster"), Cleveland, Ohio
Graygood Co. ("Graygood"), 53 W. 93d, New York
Hartford Suspension Co. ("Truffault-Hartford"), 67 Vestry, New York
Hawthorne Mfg. Co., Bridgeport, Conn.
Hercules Auto. Specialty Mfg. Co., Los Angeles, Cal.
Herz & Co. ("Pater Noster"), 203 Lafayette, New York
Hotchkin Mfg. Co. ("Hotchkin" Anti-Jolt Device), 249 Jackson boul, Chicago, Ill
Indianapolis Bolster Spring Co., 107 S. Meridian, Indianapolis, Ind.
Kelsey, C. W., 317 W. 59th, New York
Kelsey Suspension Co., Tarrytown, N. Y.
Kilgore Mfg. Co., 585 Boylston, Boston.
Lea, Thos., New Brunswick, N. J. Mass.
Rueckert Compound Shock Absorber (Thos. E Curry, Mgr.), 66 Leonard, New York
Sager, J. H. Co., Rochester, N. Y.
Shippey, George E., 220 1st, Pittsburg, Pa.
Toquet, B. Louis, South Norwalk, Conn.
Twombley Power Co., 12th av & 51st, New York
Weeber, C. J. Mfg. Works, Albany, N. Y.
Walker, E. C. Co., 1905 Logan, Louisville, Ky.

## 10460— Shockers (Corn)

Ideal Farm Implement Co., Knowlton, Ia.
Independent Harvester Co., Plano, Ill.
INTERNATIONAL HARVESTER CO. of America, 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10461— Shock (Roller)

Superior Iron Wks. Co., Superior, Wis.

## 10462—Shoe Blacking & Polishes

American Shoe Polish Co. ("Eagle"), 810 N Franklin, Chicago, Ill.
Bixby, S. M. & Co., 194 Hester, New York
Black Cat Polish Co., Buffalo, N. Y.
Blichert, P. A. Mfg. Co., Jersey City, N. J.
Brown, B. F. & Co., Boston, Mass.
Burckard Blacking & Oil Co. ("Okolite"), 500 E Monument, Baltimore, Md.
Cleveland, Alden T., Hyde Park, Mass.
Dalley, F. F. Co. ("2 in 1," Polish), Buffalo, N. Y.
Diamond, McDonnell & Co., 409 N 4th, Phila, Pa.
Gold Medal Polish Co. ("Gold Medal" Polish), Racine, Wis.
Hauthaway, C. L. & Son, Boston, Mass.
Herriott Bros. & Co., St. Louis, Mo.
Imperial Leather Preserver Mfg. Co. ("Leatherine" Waterproof), 216 Chancelor, Phila., Pa.
Lone Star Blacking & Mfg. Co., Dallas, Tex.
Mason, James S. Co., 136 N Front, Phila, Pa.
Martin & Martin ("E-Z" Polishes Only), 3005 Carroll av, Chicago, Ill.
Miller, Frank Co., 349 W 26th, New York
Nugget Polish Co. (Ltd.), 299 Bway, New York
Prescott, J. L. & Co., 92 W B'way, New York
Quick Shine Polish Co., Des Moines, Ia.
Red Cross Mfg. Co., Buffalo, N. Y.
Robb, C. L. Mfg. Co., Bellefontaine, O.
Shinola Co., Rochester, N. Y.
Stinson, B. F. Co., Buffalo, N. Y.
Superior Polish Co., Brockton, Mass.
Whittemore Bros Co. (Polishes, Paste, etc., "Quick White," "Dandy," "Bossola," "Gilt Edge," "Baby Elite," "Star," "Superb," "Dandy Russet Paste"), Cambridge, Mass.
Wood, Geo. H. Corp., 431 Medford, Chsn., Boston, Mass.

## 10463— Shoe Horns

AMERICAN VULCANIZED FIBRE Co. (Fibre), Wilmington, Del. (See adv. index, end of book)
CONTINENTAL FIBRE CO. (Vulcanized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)
PARKER, J. C. & SONS FIBRE CO. (Fibre), New Castle, Del. (See adv. index, end of book)

## 10464—Shoe Lasts & Stands

Heath Foundry Co., Plymouth, O.
Star Heel Plate Co. ("Star," "Boston," "Union," "Victor"), Newark, N. J.

## 10465— Shoe-Trees

R. P. K. Pressed Metal Co. (Aluminum), Bridgeport, Conn.

## 10466—Shoes (Conductor Pipe)

BERGER MFG. CO., Canton, O. (See adv. index & branch offices, end of book)
Hussey, C. G. & Co. (Copper Only), Pittsburg, Pa.

## 10467— Shoes (Cutter)

Sweet's Steel Co., Williamsport, Pa.

## 10468—Shoes (Horse, Rubber)

Diamond Rubber Co., Akron, Ohio
Goodyear Tire & Rubber Co., Akron, O.
Revere Rubber Co., Boston, Mass.
WHITMAN & BARNES MFG. CO. ("W. & B." Rubber Pad), Akron, O. (See adv. index & branch offices, end of book)

## 10469—Shoes (Horse & Mule)

American Horse Shoe Co. (Horse & Mule), Phillipsburg, N. J.
AMERICAN STEEL & WIRE CO. (Horse "Juniata" Brand, Iron or Steel, in all Sizes & Patterns, also Toe Calks), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Bryden Horse Shoe Co. (Horse & Mule), Catasauqua, Pa.
Burden Iron Co., Troy, N. Y.
Burlington Horse Shoe Co., Burlington, Iowa
Cincinnati Horse Shoe & Iron Co. (Horse & Mule), Cincinnati, O.
Complete Horse Shoe Co., 149 B'way, New York
Cray Bros. ("Cleveland" Iron Shoe), Cleveland, Ohio
Manhattan Rolling Mill (Inc.) (Horse), 362 Avenue A, New York
Meyer, Otto A. Co. (Steel Calk Horse Shoe), Milwaukee, Wis.
Neverslip Mfg. Co. ("Neverslip" Red Tip Horse Shoes), New Brunswick, N. J.
Old Dominion Iron & Nail Works Co. (Horse & Mule), Richmond, Va.
Parkway Drop Forge Horseshoe Co., Cleveland, O.
Phoenix Horse Shoe Co. (Horse & Mule), The Rookery, Chicago, Ill.
Rhode Island Perkins Horse Shoe Co. ("Perkins" Horse & Mule), Providence, R. I.
Scott Iron & Steel Co. (Horse), Carnegie, Pa.
Side Weight Horse Shoe Co. ("Boss," "Hartford"), Mechanic, Hartford, Conn.
Standard Horse Shoe Co., Boston, Mass., & South Wareham, Mass.
Tredegar Co., Richmond, Va.
United States Horse Shoe Co. (Horse), Erie, Pa.
Virginia Iron, Coal & Coke Co., Roanoke, Va.
Williams Drop Forging Co. ("Williams" Cantslip Drop Forged Horse Shoes & Removable Calks), Scranton, Pa.

## 10470—Shoes (Molders' or Foundry)

Brandau, Adam, Detroit, Mich.
Johnson, C. W., Natick, Mass.
Williams, Arthur A. Shoe Co., Holliston, Mass.

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## 10471— Shoes (Ox)

**Atwater Mfg. (Forged Wrought Iron), Plantsville, Conn.**
Haven Malleable Castings Co., Cincinnati, O.
**Millers Falls Co., 28 Warren, New York; Works, Millers Falls, Mass.**
Ross-Meehan Foundry Co., Chattanooga, Tenn.
**Scranton Forging Co., Scranton, Pa.**
**Woodruff, W. W. & Sons Co., Mount Carmel, Conn.**

## 10472— Shoes (Plank)

Pollard, Jos. G. (Steel), 141 Raymond, Brooklyn, N. Y.

## 10473—Shoes (Sliding Furniture)

Onward Mfg. Co. ("Onward"), Menasha, Wis.

## 10474— Shoes (Steel Sole)

Steel Shoe Co., Racine, Wis.

## 10475—Shoes (Wood Sole)

Reimer, A. H. Shoe Co., Milwaukee, Wis.

## 10476—Shoes & Dies (Stamp Mill)

Allen, Edgar American Manganese Steel Co. Cast Steel), 193 Michigan av, Chicago, Ill.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Steel Foundries, Commercial Nat'l Bank bldg, Chicago, Ill.
**Chester Steel Casting Co., 407 Sansom, Phila., Pa., & Chester, Pa.**
**Chrome Steel Works (Adamantine), Chrome, Colorado Iron Works Co., Denver, Col. N. J.**
Davis, F. M. Iron Works Co., Denver, Col.
**Denver Eng. Works Co., Denver, Col.**
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hendy, Joshua Machine Works ("The Wilson"), San Francisco, Cal.
National Steel Casting Co., Montpelier, Ind.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
**Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)**
**POWER & MINING MACHNERY CO.,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Taylor Iron & Steel Co. ("Hatfield"), High Bridge, N. J.

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## 10477— Shooks (Box)

Acme Box Co., 619 S Clinton, Chicago, Ill.
Acme Box Co., Detroit, Mich.
**Acushnet Saw Mills Co., Acushnet, Mass.**
Adkins, E. S. & Co., Salisbury, Md.
**Allegheny Box Co., (Exp). Richmond, Va.**
American Box Co., ft. of Illinois, Chicago, Ill.
Anderson-Tully Co. (Gum & Cottonwood), Memphis, Tenn.
Anson-Gilkey & Hurd Co. (Pine, Hemlock & Hardwood), Merrill, Wis.
**Astoria Box Co. (Exp.), Astoria, Ore.**
Atwood & McManus, Chelsea, Tenn.
**Badger Box & Lumber Co. (Exp.), Grand Rapids, Wis.**
**Barnes, E. H. Co., 11 B'way, New York**
Bartlett Box & Lumber Co., Westboro, Mass.
Bay City Box & Lumber Co., Bay City, Mich.
Bell & Coggeshall Co., Louisville, Ky.
Biltmore Box Factory (Poplar, Basswood, White Pine & Chestnut), Mescatine, Ia.
Bogert & Hopper Co., 162 William, New York
Bradley, Miller & Co. (White Pine, Hardwood or Basswood), Bay City, Mich.
Branning Mfg. Co., Edenton, N. C.
Brookings Lumber & Box Co., Highland, Cal.
Brown-Mitcheson Co. (Shooks & Cratings), Mariette, Wis.
Buffalo Box Factory (Exp.), Buffalo, N. Y.
Butts, C. G. & Co., Tonawanda, N. Y.
Cannon Box Co., Geneva, Ill.
Carrier Lumber & Mfg. Co. (Gum), Sardis, Miss.
Carter, Jno. A., Petersham, Mass.
Carter, S. C. & S. Co., Keokuk, Ia.
Chaffee Bros. Co. (Exp.) (By Car Lots), Oxford, Mass.
Chicago Mill & Lumber Co., 140 W Chicago av, Chicago, Ill.
**Cochran Lumber Co., Chelsea, Memphis, Tenn.**
**Cohn & Bock, Princess Anne, Md.**
Cleveland Box Co., Cleveland, O.
Cloquet Box Co. (White Pine), Cloquet, Minn.
Collar, W. G. Lumber Co. (Hardwood, Hemlock & Pine), Merrill, Wis.
**Connecticut Box Co. (Inc.), New Haven, Conn., & 30 Church, New York**
Coupling, E. A. (Nail or Lock Covered), Cincinnati, O.
Delta Box Mfg. Co. (Shooks & Cratings), Memphis, Tenn.
**Derry, Fred. J., Danvers, Mass.**
**Duker, J. H. Box Co., Eden & Aliceanna, Baltimore, Md.**
Dunning-Varney Co. (Pine, Spruce, Hemlock, etc.), 99 Warren, New York
East Brooklyn Box Co. (Yellow Pine, Poplar & Gum), East Brooklyn, Md.
**Ellington & Guy, (Va. Sap Pine), Richmond, Va.**
Estes, E. B. & Sons, 74 Warren, New York
**Fenton Bros. Box & Lumber Co., Tonawanda, N. Y.**
**Fidalgo Mill Co. (Exp.), Anacortes, Wash.**
**Gale, Conrad H., Tully, Mass.**
**Gilkey & Anson Co., Merrill, Wis.**
Graves, Manbert, &eorge & Co. (White Pine), Buffalo, N. Y.
Goodwille Bros. (Pine & Basswood), Wausau, Wis.
**Griggs, D. B. & Sons, Chicopee Falls, Mass.**
**Gulf Cooperage Co., Pittsburg, Pa.**
Hahn, J. N. Co., Cleveland, O.
**Handy Bros. (Inc.), Bay City, Mich.**
**Harroun, J. E. & Son, Watertown, N. Y.**
Heidt, C. & Son, Jersey City, N. J.
Himmelberger-Harrison Lumber Co. (Gum, Oak, etc.), Cape Girardeay, Mo.
**Holley-Matthews Mfg. Co., Sikeston, Mo.**
Holston Box & Lumber Co. (Tenn. Yellow Poplar), Knoxville, Tenn.
Hutton & Bourbonnais Co., Hickory, N. C.
Jordan Lumber Co., Old Town, Me.
**Keokuk Box Co., Council Bluffs, Iowa**
**Kenfield & Lomoreaux (Also Crating & Heading), Washburn, Wis.**
Kress, F. J. Box Co. (Shooks & Cratings), 2920 Liberty av, Pittsburg, Pa.
Lamb-Davis Lumber Co., Minneapolis, Minn.
Lansing Wheelbarrow Co. (Gum & Cottonwood), Parkin, Ark.
**Lawrence, Newhall, Page & Co., Augusta, Me.**
Lea, David M. & Co. (Pine), Richmond, Va.
**Linderman Box & Veneer Co., Eau Claire, Wis.**
Long-Bell Lumber Co. (Yellow Pine), Kansas City, Mo.
**Lucas Lumber Co. (Exp.), Tacoma, Wash.**
Lunan, J. & Son, Fall River, Mass.
**M. & M. Box Co. (White Pine Shooks & Crates, Car Load Lots), Marienette, Wis.**
Melendy, C. F., Nashua, N. H.
McFerson & Foster Co. (Cottonwood, Poplar & Gum), Evansville, Ind.
Malvern Lumber Co. (Shooks & Crating), St. Louis, Mo.
Marquette Box & Lumber Co. (Pine, Hemlock, Birch, Maple, etc.), Marquette, Mich.
Marinette & Menominee Box Co. (White Pine), Marinette, Wis.
Mengel, C. C. & Bro. Co. (Exp.), Louisville, Ky.
Mengel, E. & Co., Bay City, Mich.
Mershon-Bacon Co. (Boxes in Shooks or Nailed), Bay City, Mich.
**Mershon, Eddy, Parker Co. (Exp.), Saginaw, Mich.**
Michigan Mfg. & Lumber Co. (Exp.), Holly, Mich.
Millard Lumber Co., New Hamburg, N. Y.
Mississippi Box Co., Muscatine, Ia.
Moore & McFerren (Gum & Cottonwood), Memphis, Tenn.
**Morrison Mill Co., Bellingham, Wash.**
**Musser, Wm. Lumber & Mfg. Co., Spokane, Wash**
National Box Co., Cleveland, O.
**Naylor, S. E., (Domestic & Export), Gulfport, Miss**
Nickless, W. H., Bay City, Mich.
**Osgood & Blodgett Mfg. Co., St. Paul, Minn**
**Paepske-Leicht Lumber Co. (Exp.), W. Chicago av. & N. Sangamon, Chicago, Ill.**
Paine Lumber Co., Oshkosh, Wis.
Peart, Nields & McCormick Co. (North Carolina Pine), Harrison bldg, Phila., Pa.
Pierpont Mfg. Co. (Shooks & Crates), Savannah, Ga.
**Presbrey, A. A. & Son Co., Providence, R. I.**
Red River Lumber Co. (Pine), Minneapolis, Minn.
Rathborne, Hair & Ridgway Co., Chicago, Ill.
Reeves, W. D. Lumber Co. (Yellow Poplar, Cottonwood, etc.), Helena, Ark.
**Rice, Henry H. & Co., South Athol, Mass.**
**Rieckhoff, W. H. Co., New Duluth, Minn.**
**Rust-Owen Lumber Co. (Wisconsin Cork Pine), Drummond, Wis.**
Saginaw & Manistee Lumber Co., Williams, Arizona
**Saginaw & Rittler Box Co., 621 S. Carolina, Baltimore, Md.**
Santee River Cypress Lumber Co. (Cottonwood, Gum, Ash, Pine & Cypress), Ferguson, S. C.
**Schultz Bros. (Exp.), 71 B'way, New York**
**Sierra Lumber Co., San Francisco, Cal.**
**Smith, C. A. Lumber Co., Minneapolis, Minn.**
Soper Box Co. (Pine, Hemlock, etc.), 838 Loomis, Chicago, Ill.
**South Muscatine Lumber Co., Muscatine, Ia.**
**South Side Lumber Co., Traverse City, Mich.**
**Southern Roller, Stave & Heading Co. (Gum Box), Elizabeth City, N. C.**
Standard Box & Lumber Co., Pittsburg, Pa.
**Stevens Point Box Co., Stevens Point, Wis.**
**STILES, H. A. & CO., 161 High, Boston, Mass.** (See adv. index, end of book)
**Stillwater Mfg. Co., Stillwater, Minn.**
**Stone, E. E. Lumber & Box Co. (Exp.), Spencer, Mass.**
**Stovall Mfg. Co., Stovall, N. C.**
**Sunset Door & Sash Co., Stockton, Cal.**
Surry Lumber Co. (N. C. Pine, Poplar & Gum, Baltimore, Md.
**Talbot Bros. Co., Providence, R. I.**
**Thompson, G. A. & Son, Hurlock, Md.**
Thornton, E. A. Lumber Co., 138 Washington Chicago, Ill.
Traders Box & Lumber Co., Rochester, N. Y.
**Treworgy, Charles J., Ellsworth Falls, Me.**
**Vance, E. J. Box Co. (Ltd.) (Exp.), Bay City, Mich.**
**Varney, Isaac & Sons Co. (Exp.), Fall River, Mass.**
**Verdi Lumber Co., Verdi, Nev.**
Virginia Lumber & Box Co. (Shooks & Cratings), Petersburg, Va.
Ward-Kent Co. (Gum), Greenfield, Tenn.
**Warrior Mfg. Co., Birmingham, Ala.**
Washington Mill Co. (Soft Pine). Spokane, Wash.
**Wausau Box & Lumber Co., Wausau, Wis.**
Wisconsin Box Co. (Pine & Basswood), Wausau, Wis.
**Wing & Engle Co., Old Town, Me.**

## 10478—Shooks (Tub, Bucket, Etc.)

**Langeland Mfg. Co. (Box), Muskegon, Mich.**
**Riggs Cypress Co. (Also for Washing Machines, Ice Cream Freezers), Patterson, La.**

## 10479—Shooting Galleries (Mechanical)

Mangels, m. F. (Steel), 2941 W 5th, Brooklyn, N. Y.
Parker, C. W., Abilene, Kan.

## 10480— Shot Mfrs.

**Bailey-Farrell Mfg. Co., Pittsburg, Pa.**
**Colwell Lead Co., Lafayette & Walker, New York**
**Hoyt Metal Co., St. Louis, Mo., & Perth Amboy, N. J.**
Raymond Lead Co., 34 N Clinton, Chicago, Ill.
**Selby Smelting & Lead Co. (Drop, Chilled, etc.), San Francisco, Cal.**
**Shepard, Sidney & Co., Buffalo, N. Y.**
**Sparks, Thos. W., 121 Walnut, Phila., Pa.**
**Tatham & Bros., 261 Water, New York**
United Lead Co. ("Tatham's"), 111 B'way, New York

## 10481—Shot (Steel Chilled)

Bowers, R. C. Granite Co., Montpelier, Vt.
Calais Shot Works, Calais, Me.
Harrison Supply Co., 5 & 7 Dorchester av, Extension, Boston, Mass.
Pittsburgh Crushed Steel Co. (Ltd.), Pittsburgh, Pa.
Townsend, Townsend & Co., 453 W 21st, New York
United Lead Co. ("Tatham's"), 111 B'way, New York

## 10481a—Shot (Steel, Sand Blast)

**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

## 10482— Shot (Throwing)

Tatum, Samuel C. Co., Cincinnati, O.

## 10483—Shovel, Spade & Scoop Mfrs.

American Shovel & Stamping Co. (Hand Shovels), Lorain, Ohio
**Ames Shovel & Tool Co., Ames Bldg., Boston, Mass. Works, North Easton, Mass.**

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Avery Stamping Co. ("Never Break"), Cleveland, O.
Baldwin Forging & Tool Co., Parkersburg, W. Va.
Beall Bros. (Inc.), Alton, Ill.
Belknap, John A., Anamosa, Ia.
Chisholm Steel Shovel Wks., Cleveland, O.
Collins Co., Collinsville, Conn.
Conneaut Shovel Co. ("Mik Kola," "Rouberg"), Conneaut, Ohio.
Hills, Edwin, Plainville, Conn.
Hubbard & Co., Pittsburg, Pa.
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Rolling Mill Co., New Castle, Ind.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Maynard, C. A., Northampton, Mass.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Ohio Shovel & Stamping Co. ("Bull Frog" Brand), Canal Dover, O.
Owensboro Shovel & Tool Co. ("McCulloch", "Owensboro," "Kentucky," "Handy Andy"), Owensboro, Ky.
Pfeifer, Jno. & Co., 222 Race, Phila., Pa.
**PITTSBURGH GAGE & SUPPLY CO.** ("Best-Ov-All," Contractors'), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
**Russel, J. C. Shovel Co., Pittsburg, Pa.**
Southern Shovel Mfg. Co. ("M. & M." Self Sharpening, "Perfection," "Faultless"), Gadsden, Ala.
Swineford, G. A. Co., Canton, O.
Union Furnace Mfg. Co., Union Furnace, Pa.
Wood Shovel & Tool Co., Piqua, O.
Wyoming Shovel Works, Wyoming, Pa.

## 10484—Shovels (Automatic Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York.** (See adv. index & branch offices, end of book)
Thew Automatic Shovel Co., Lorain, O.

## 10485—Shovels (Bakers')

**Hussey-Binns Shovel Co. (Cast Steel), Pittsburg, Pa.**
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)

## 10486— Shovels (Coal)

American Shovel & Stamping Co., Lorain, O.
Ames Shovel & Tool Co., Ames bldg, Boston, Mass.
Beall Bros. (Inc.), Alton, Ill.
Chisholm, Wm. & Sons, Cleveland, O.
Collins Co., Collinsville, Conn.
**Conneaut Shovel Co. ("Union"), Conneaut, Ohio**
Hardsocg, Martin Co., Pittsburg, Pa.
Hubbard & Co., Pittsburg, Pa.
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co. (Hollow Back), Montpelier, Ind.
Maynard, C. A. ("C. A. Maynard"), Northampton, Mass.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Ohio Shovel & Stamping Co., Canal Dover, O.
Owensboro Shovel & Tool Co. (Hollow Back), Owensboro, Ky.
Pfiefer, Jno. & Co., 224 Race, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY CO.** ("Best-Ov-All"), 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
Russell, J. C. Shovel Co., Pittsburg, Pa.
Union Furnace Mfg. Co., Union Furnace, Pa.
Wood Shovel & Tool Co., Piqua, Ohio

## 10487—Shovels (Colliers')

Hussey- Binns Shovel Co., Pittsburg, Pa.

## 10488—Shovels (Cultivator)

Akron Machine Co., Akron, O.
Albright, Jas. H. & Sons, Muffinburg, Pa.
Allen, S. L. & Co., 1017 Market, Phila., Pa.
American Shovel & Stamping Co., Lorain, O.
Avery, B. F. & Sons, Louisville, Ky.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Crescent Forge & Shovel Co., Havana, Ill.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co., Albion, Mich.
Harrow Spring Co., Kalamazoo, Mich.
Havana Metal Wheel Co. ("Crescent"), Havana, Ill.
Hench & Dromgold Co., York, Pa.
Mason, F. C. & Co., St. John's, Mich.
Moline Plow Co., Fort Madison, Ia.
Morrison Mfg. Co., Fort Madison, Ia.
Ohio Cultivator Co., Bellevue, O.
Parlin & Orendorff Co., Canton, Ill.
Star Mfg. Co., Carpentersville, Ill.
Weyburn Sales Co. ("Rockford Ideal"), Rockford, Ill.
White, S. B. & Bro., Norfolk, Va.

## 10489— Shovels (Drain)

Ames Shovel & Tool Co., Boston, Mass.
American Fork & Hoe Co., Cleveland, O.
Baldwin Forging & Tool Co., Columbus, O.
Beall Bros. (Inc.), Alton, Ill.
Hubbard & Co., Pittsburg, Pa.
Hussey-Binns Shovel Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Iwan Bros. ("Iwan's Champion"), South Bend, Ind
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Mount Pleasant Tool Co. (Long Handle), Mount Pleasant, Pa.
Ohio Shovel & Stamping Co., Canal Dover, O.
Owensboro Shovel & Tool Co., Owensboro, Ky.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
St. Louis Shovel Co., St. Louis, Mo.

## 10490—Shovels (Electric Power)

Marion Shovel & Dredge Co., Marion, O.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Thew Automatic Shovel Co., Lorain, O.
Vulcan Steam Shovel Co., Toledo, O.

## 10491— Shovels (Fire)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Central Stamping Co., 174 Fulton, New York
Clark, W. J. Co., Salem, O.
Dayton Malleable Iron Co. (Malleable Iron), Dayton, O.
Fanner Mfg. Co., Cleveland, O.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hazel Atlas Glass Co. (Wrought and Stamped), Wheeling, W. Va.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
**National Enameling & Stamping Co., 374 B'way, New York**
New York Stamping Co. ("Edger's"), N 11th & Berry, Brooklyn, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
**Republic Metalware Co., Buffalo, N. Y.**
**Sargent & Co., New Haven, Conn.**
**Schrayer's, M. Sons & Co., 917 W 18th, Chicago, Ill.**
Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works, Troy, N. Y.
Union Furnace Mfg. Co., Union Furnace, Pa.

## 10492—Shovels (Irrigating)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)

## 10493— Shovels (Lawn)

Finch, Dwight H. Co. ("Finch" Lawn Shovel, Weed Extractor), 115 Dearborn, Chicago, Ill.

## 10494— Shovels (Lime)

Hubbard & Co., Pittsburg, Pa.
Hussey-Binns Shovel Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Mount Pleasant Tool Co. (Long Handle), Mount Pleasant, Pa.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Pfiefer, Jno. & Co. (Cast Steel), 224 Race, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)

## 10494a—Shovels (Manganese Steel)

Manganese Steel Rail Co., 30 Church, New York

## 10495—Shovels (Mining Machine)

Beall Bros. (Inc.), Alton, Ill.
Conneaut Shovel Co. ("Magyar Unions"), Conneaut, Ohio
Hubbard & Co., Pittsburg, Pa.
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works: Charleroi, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

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Mount Pleasant Tool Co., Mount Pleasant, Pa.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Pfiefer, Jno. & Co., 224 Race, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

## 10496—Shovels (Molders')

American Shovel & Stamping Co., Lorain, O.
Beall Bros. (Inc.), Alton, Ill.
Conneaut Shovel Co., Conneaut, Ohio
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Ohio Shovel & Stamping Co., Canal Dover, O.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Pfiefer, Jno. & Co., 224 Race, Phila., Pa.
**PITTSBURG SHOVEL CO. Oliver,** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Wood Shovel & Tool Co., Piqua, O.

## 10497—Shovels (Power, Grain)

**CALDWELL, H. W. & SON CO.** ("Automatic"), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dodge Mfg. Co., Mishawaka, Ind.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 10497a—Shovels (Revolving Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10498—Shovels (Sewer)

Hussey-Binns Shovel Co., Pittsburg, Pa.

## 10498a—Shovels (Sewer, Revolving Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10499—Shovels (Sewer, Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10500—Shovels (Snow)

American Shovel & Stamping Co. (Steel), Lorain, O.
Avery Stamping Co. (Steel), Cleveland, O.
Beall Bros. (Inc.), Alton, Ill.
Benton Mfg. Co. (Wood), Charlotte, Mich.
Buffalo Sled Co., Buffalo, N. Y.
Mills, Edwin, Plainville, Conn.
Hubbard & Co., Pittsburg, Pa.
Hussey-Binns Shovel Co. (Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Kohler, F. E. & Co. ("Cyclone," etc.), Canton, Ohio
Menzies Street Cleaner Co. ("Menzies," Spring Steel), Glens Falls, N. Y.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Ohio Shovel & Stamping Co., Canal Dover, O.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Owosso Mfg. Co. (Galvanized Steel Blade) Owosso, Mich
Pfiefer, Jno. & Co., 224 Race, Phila., Pa.
Phillips, A. J. Co. (Wood & Steel), Fenton, Mich.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Rugg Mfg. Co. ("Star Rugg" Wood & Steel), Greenfield, Mass.
Swineford, G. A. Co. (Seamless, Flat & Hollow Back), Canton, O.

## 10501—Shovels (Steam)

(See also Buckets, Clam Shell, Etc.)

American Steel Dredge Co., Fort Wayne, Ind.
American Locomotive Co., 30 Church, New York
Bellefontaine Foundry & Machine Co., Bellefontaine, O.
Browning Mfg. Co. (Revolving), Cleveland, O.
Bucyrus Co., South Milwaukee, Wis.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Cupples Adjustable Tooth Co., Tyrone, Pa.
East St. Louis Locomotive & Machine Shop Co. (Rebuilt), East St. Louis, Ill.
Fairbanks Steam Shovel Co., Marion, O.
Heyworth, Jas. O. ("Heyworth-Newman"), Harvester bldg, Chicago, Ill.
Kingsford Foundry & Machine Works, Oswego, N. Y.
**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)
Marion Steam Shovel & Dredge Co., Marion, O.
Ohio Steam Shovel & Dredge Co., Cincinnati, O.
Roanoke Iron Works, Roanoke, Va.
Souther, John & Co., 185 Summer, Boston, Mass.
Thew Automatic Shovel Col, Lorain, O.
Toledo Foundry & Machine Co. ("Victor"), Toledo, O.
Vulcan Steam Shovel Co., Toledo, O.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
·COMPANY·
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 10502—Shovels (Steam, Second-Hand)

Apex Equipment Co. (Mfrs.' Agts.), All Kinds), 11 B'way, New York
Atlantic Equipment Co., 30 Church, New York
Baldwin Equipment & Supply Co., Fisher bldg, Chicago, Ill.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Cincinnati Equipment Co., Cullom's Station, Cincinnati, O.
Hobbs-Newby Equipment Co., Norfolk, Va.
Males Co., Cincinnati, O., & 26 Cortlandt, New York
Mitshkun, M. Co., Detroit, Mich.
Shaw, Willis Machinery Co., 171 La Salle, Chicago, Ill.

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

Torber, A. C. & Co., 164 Dearborn, Chicago, Ill.
**WATSON, BENJAMIN, 66 Beaver, New York.** (See adv. index, end of book)
Watson, Jno. B., Drexel bldg, Phila., Pa.
Zelnicker, Walter A. Supply Co., St. Louis, Mo.

## 10503—Shovels (Tamping)

**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)

## 10504—Shovels (Telegraph)

Beall Bros. (Inc.), Alton, Ill.
Hubbard & Co., Pittsburg, Pa.
**Hussey-Binns Shovel Co. (Crucible Cast Steel,** Handles 7 to 8 ft.), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Ohio Shovel & Stamping Co., Canal Dover, O.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

## 10504a—Shovels (Traction, Revolving Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10504b—Shovels (Traction, Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10505—Shovels (Tunneling, Compressed Air)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10505a—Shovels (Tunneling, Electric)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10505b—Shovels (Tunneling, Steam)

**MARION STEAM SHOVEL CO., W** Center, Marion, O. (See adv. index & branch offices, end of book)

## 10506—Show Case Fixtures (Metal)

Van Doorn Co. (All Finishes), Quincy, Ill.

## 10507—Show Cases

American Show Case Co., 129 Grand av, Brooklyn, N. Y.
Barlow Mfg. Co., Holyoke, Mass.
Bartelstone Bros. (All Glass), 4179 3rd av, New York
Columbus Show Case Co. (Also All Glass), Columbus, O.
Combination Fountain Co., Decatur, Ill.
Cox, S. S. Mfg. Co., Bryan, O.
Blitz Bros., 811 Norton, Chicago, Ill.
Bodach, Chas. & Sons, 258 Franklin, Chicago, Ill.
Bryan Show Case Co. (Also Bread Cases), Bryan, O.

**Shovels, Spades, Coal and Grain Scoops; Post, Ditching and Draining Tools, Telegraph Shovels and Spoons.**

**The Pittsburgh Shovel Co.,** Oliver Bldg. FACTORY: Leechburg, Pa. **Pittsburgh, Pa.**

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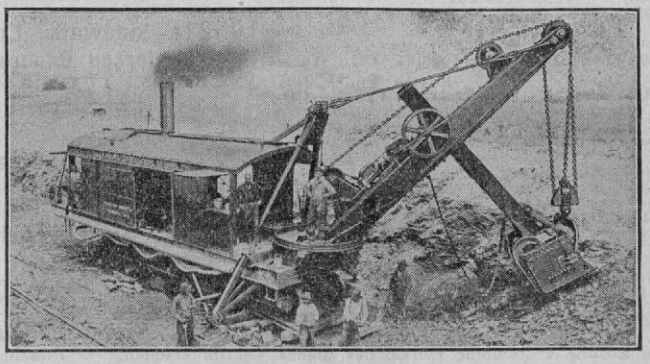
# Marion Steam Shovels

are the most powerful, economical and efficient Shovels ever built. We make them in all sizes, for either steam or electric power, and with railroad or traction trucks.

We can lower your working costs by supplying machines that give best results at lowest maintenance cost.

Our Standard Shovels are built with dipper capacities ranging from ¾ to 6 cubic yards.

Our Revolving Shovels are of three sizes: ½-yd., ¾-yd. and 1¼-yd.



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Strauss, Wm., 416 Arch, Phila., Pa.
Sun Mfg. Co., Columbus, O.
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**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
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Mesker & Bro., St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
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Perkins Mfg. Co., St. Paul, Minn.
Rolling Steel Shutter Works, 162 W 27th, New York
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Souther, E. E. Iron Co. (Corrugated, Fire etc.), St. Louis, Mo.
**Steel Roofing & Stamping Works, Des Moines,** Iowa
**Variety Mfg. Co. (Iron & Tin Clad Window),** Sacramento & Carroll av, Chicago, Ill.
**VULCAN CO., Detroit, Mich. (See adv. index, end of book)**
Youngstown Iron & Steel Co., Youngstown, O.

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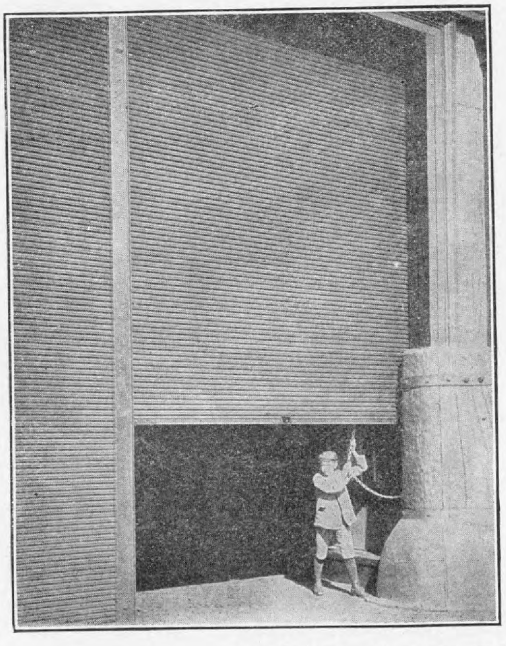
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Matthews, Jas. H. & Co., Pittsburg, Pa.
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American Endoscopic Co., Providence, R. I.
American Sign Co., Kalamazoo, Mich.
Art Sign Co., Syracuse, N. Y.
Betts & Betts (Inc.), 306 W 53d, New York
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Economy Electric Co., Marion, Ind.
Edison Decorative & Miniature Lamp Dept., Harrison, N. J.
Electric Carriage Call Co. (Changeable & Permanent), 173 Christopher, New York
Electric Motor & Equipment Co. (Talking Sign), Newark, N. J.
Electro-Ad Co. ("Newest," "Phelps"), Detroit, Mich.
Empire Electric Sign Co., 162 E 118th, New York
Federal Electric Co., 124 W Lake, Chicago, Ill.
**FRINK, I. P., 10th av & 24th, New** York. (See adv. index. end of book)
Haller Sign Works ("Luna"), 708 S Clinton, Chicago, Ill.
Hinsdill-Pickering Electric Co., Troy, N. Y.
Jackson, H. C., Electric Co. ("La Luciole"), Parkersburg, W. Va.
Kanneberg Roofing & Ceiling Co. ("Eclipse"), Canton, O.
Klintz, A. & Co., 63 W. Jackson boul, Chicago, Ill.
Lindstrom-Smith Co. ("Flash-I-Do"), 253 La Salle, Chicago, Ill.
Marx Zero Sign Works ("Zero"), 160 Superior, Chicago, Ill.
Moore Electrical Co., Newark, N. J.
Niagara Electric Sign Co., Buffalo, N. Y.
Novelty Sign Co., San Francisco, Cal.
Ohio Novelty Sign & Electric Co., Marion, O.
Opal Sign Co., 344 Broome, New York
Pacific Electric Co. ("Espersen"), La Crosse, Wis.
Pause, P. & Co., 81 Erie, Chicago, Ill.
Portland Electric Sign Works, Portland, Ore.
Pyro Sign Co., 289 8th av, New York
R. R. Sign Co., Dayton, O.
Rawson & Evans, 71 W Wash'n boul, Chicago, Ill.
Reynolds Dull Flasher Co., 152 5th av, Chicago, Ill.
Reynolds Electric Flasher Mfg. Co. ("Reco' Flashers), 631 W Jackson boul, Chicago, Ill.
Solar Electric Co., 161 S Canal, Chicago, Ill.
Strauss & Co., 442 W 42d, New York

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Suess Ornamental Glass Co., 192 Washington boul, Chicago, Ill.
Toledo Electric Sign Co., Toledo, O.
Tripp & Co., 111 5th av, Chicago, Ill.
Universal Elec. Stage Lighting Co. ("Kliegl"), 1393 B'way, New York
Universal Mfg. Co., 206 Illinois, Chicago, Ill.
Valentine Electric Sign Co., Atlantic City, N. J.
Weber Illuminating Sign Co., Reading, Pa.
Western Display Co. ("Reflectric"), St. Paul, Minn.
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.
Western Stage Appliance Co., Oakland, Cal.
Yoerger-Butterworth Sign Co., Columbus, O.

## 10552—Signs (Enameled Iron)

Baltimore Enamel & Novelty Co., Allen & Clement, Baltimore, Md.
**BURDICK, JNO. R. (Steel), 77 Dearborn**, Chicago, Ill. (See adv. index, end of book)
Climax Supply Co. ("Climax" Sign Posts & Signs), Marquette bldg, Chicago, Ill.
Enameled Steel Sign Co. (Steel), 12 State, Chicago, Ill.
Ingram & Richardson Mfg. Co., Beaver Falls, Pa.
Leonard War Electric Co., Bronxville, N. Y.
Nelke, L. D. (Also Tin, etc.), 29 Murray, New York
Toledo Metal Sign Co., Toledo, O.

## 10553—Signs (Enameled Steel)

(See also Signs, Car)

Baltimore Enamel & Novelty Co., Baltimore, Md.
Brilliant Mfg. Co., 1035 Ridge av, Phila., Pa.
Dawes Mfg. Co., Pittsburg, Pa.
Electric Motor & Equipment Co. ("Ironclad"), Newark, N. J.
Enameled Steel Sign Co., 12 State, Chicago, Ill.
Gunning System, 9 Plymouth, Chicago, Ill.
Ingraham-Richardson Mfg. Co. (Porcelain Enameled), Beaver Falls, Pa.
National Enameling Co., Cincinnati, O.

## 10554—Signs (Etched Metal)

Abbott, W. H., 1263 B'way, New York
American Name Plate & Mfg. Co., 15 W Kinzie, Chicago, Ill.
Dayton Stencil Works, Dayton, O.
Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
Haeusermann Metal Mfg. Co., 1098 Brooks av, New York
Newark Brass Plate Engraving Co., Newark, N. J.
Salo Art Metal Co., Binghamton, N. Y.
Shonk, Chas. W. Co., Maywood, Ill.
Waterbury Etching Co., Waterbury, Conn.

## 10555—Signs (Fence Board)

Brown & Kearney Mfg. Co., Silver Springs, N. Y.

## 10556— Signs (Glass)

Denzi & Phillips, 24 Dey, New York
Empire Ornamental Glass Co., 437 Washington, New York
Herrlein & Henrich Co. (All kinds for All Purposes), 97 Hudson, New York
Jones Oecorative Glass Co., Hudson av & Concord, Brooklyn, N. Y.
Mansfield & Co., 158 Chambers, New York
Moise-Klinker Co., 1212 Market, San Francisco, Cal.
National Sheet Metal Co., Peru, Ill.
Nelke, L. D., 29 Murray, New York
Rawson & Evans Co., 710 W Washington boul, Chicago, Ill.
Shonk, Chas. W. Co., Maywood, Ill.
Tweed & Rau, 1207 W Madison, Chicago, Ill.
Western Sand Blast Mfg. Co., 548 W Jackson boul, Chicago, Ill.
Wunder, J. & Co., 190 Van Buren, Chicago, Ill.

## 10557—Signs (Litho. Metal)

Beach, H. D. Co., Coshocton, O.
Kaufman & Strauss, 124 5th av, New York
Meek Co., The, Cohocton, O.
National Can Co., Detroit, Mich.
New York Metal Ceiling Co., 537 W 24th, New York
Niagara Litho. Co., Buffalo, N. Y.
Sentenne & Green, 150 Nassau, New York
Shonk, Chas. W. Co., Maywood, Ill.

## 10558—Signs (Metal, Etc.)

**BOLLES, J. E. IRON & WIRE** Works. Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Iron & Bronze)**, 22nd & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Brown & Kearney Mfg. Co., Silver Springs, N. Y.
Chicago Metal Signs Co., 519 W Van Buren, Chicago, Ill.
Enameled Steel Sign Co., 12 State, Chicago, Ill.
**INGLIS, WM. WIRE & IRON WKS.**, 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Ingraham-Richardson Mfg. Co. (Blue & White Enameled Iron Street Names, etc.), Beaver Falls, Pa.
**JONES, TREVOR F. & CO., 374 W** B'way, New York. (See adv. index, end of book)

Trevor F. Jones. Henry H. Jones.
Established 1883.
TREVOR F. JONES & CO.,
Manufacturers of
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Bulletin Signs for Buildings, Raised Letter, Bronze, Brass, Silver, Engraved, etc.
374 West Broadway, New York City.
Tel. 2759 Spring.

Matthews, Jas. H. & Co. (Brass, Bronze, Copper, etc.), Pittsburg, Pa.
**MEYERS, FRED. J. MFG. CO., Hamilton**, O. (See adv. index, end of book)
Moise-Klinker Co., San Francisco, Cal.
National Can Co., Detroit, Mich.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Pathie, Wm. Co., Worcester, Mass.
**ST. PAUL ROOFING CORNICE & Ornament Co.**, St. Paul, Minn. (See adv. index, end of book)
Salo Art Metal Co. (Metal Etched, Engraved & Applied Letters), Binghamton, N. Y.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Toledo Metal Sign Co. (Aluminum & Brass, Enameled, Japanned, Tin, etc.), Toledo, O.
**TYLER, W. S. CO., Cleveland, O., & 11** B'way, New York. (See adv. index & branch offices, end of book)
**Van Hoven, John H. H. (Brass & Silver), 42 E 9th, New York**
**Western Sand Blast Mfg. Co., 21st & Marshall boul., Chicago, Ill.**

## 10559— Signs (Muslin)

Acme Sign Printing Co., Dayton, O.
American Mfg. Concern, Jamestown, N. Y.
Bemis Bros. Bag Co., St. Louis, Mo.
Brown & Kearney Mfg. Co., Silver Springs, N. Y.
Cleveland-Akron Bag Co., Cleveland, O.
Eastern Printing & Mfg. Co., Dayton, O.
Geraghty & Co., 61 La Salle, Chicago, Ill.
Nelke, L. D. (Also Oilcloth), 20 Murray, New York
Parker & Granville, Ithaca, N. Y.
Zero Marx Sign Works, 217 W Superior, Chicago, Ill.

## 10560—Signs (Post Office)

Eagle Lock Co., Terryville, Conn.

## 10561—Signs (Raised Letter Metal)

Hanson, C. H., 44 Clark, Chicago, Ill.

## 10562—Signs (Rotary Wind)

Albright Sign Co., Muncie, Ind.

## 10563— Signs (Street)

American Sign Co. (Four Way, etc.), Clyde, O.
Baltimore Enamel & Novelty Co. (Enameled Iron Street Names), Baltimore, Md.
Early, Joseph N., 127 Reade, New York
Enameled Steel Sign Co. (Street Names), 12 State, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady**, N. Y. (See adv. index & branch offices, end of book)
Ingraham-Richardson Mfg. Co. (Blue & White Enameled Iron, Street Names, etc.), Beaver Falls, Pa.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Roberts, D. E., Racine, Wis.

## 10564— Signs (Talking)

Electric Carriage Call Co., 172 Christopher, New York
Electric Motor & Equipment Co., Newark, N. J.

## 10565—Signs (Translucent)

Translucent Window Sign Co., 118 W. 23d, New York

## 10566— Signs (Triple)

Triple Sign Co., Inc., Connersville, Ind.

## 10567— Signs (Wire)

Bigelow, Cheney Wire Works (For Roofs), Springfield, Mass.
**BOLLES, J. E. IRON & WIRE WORKS**, Detroit, Mich. (See adv. index, end of book)
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
Columbia Iron & Wire Works Co., Canton, O.
**ESTEY WIRE WORKS CO., 59 Fulton, New York.** (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.**, 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Hamilton**, O. (See adv. index, end of book)
Phoenix Wire Works, Detroit, Mich.
Seiferlein Wire & Iron Works, Detroit, Mich.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O., & 11** B'way, New York. (See adv. index & branch offices, end of book)

## 10568— Signs (Wood)

Brown & Kearney Mfg. Co., Silver Springs, N. Y.
Nelke, L. D. (Painted), 29 Murray, New York

## 10569—Signs & Letters (Prismatic Metal)

Herrlein & Henrich Co., 97 Hudson, New York

## 10570— Silex

Bridgeport Wood Finishing Co. (For Soapmakers, etc.), New Milford, Conn.
Dunkel, S. P. & Son, Baltimore, Md.
Lantern Hill Silex Works, Mystic, Conn.
Nevins, Sam'l Co., 109 S 2d, Phila., Pa.
**SCHULE, F. H. CO., 114 Liberty,** New York. (See adv. index, end of book)
Selling Co. (Inc.), 164 Front, New York
Salomon, L. A. & Bros., 216 Pearl, New York
Whittaker, W. H., 245 Front, New York
Wiarda, John C. & Co. (Ground), 259 Greenpoint av, Brooklyn, N. Y.

## 10571— Silica (Fused)

Berge, J. & H., 95 John, New York
Eimer & Amend, 18th & 3d av, New York
Englehard, Chas., 30 Church, New York
Greiner, Emil Co., 45 Cliff, New York
Scientific Materials Co., Pittsburg, Pa.
Thomas, Arthur H. Co. (Transparent Vitreous), 12th & Walnut, Phila., Pa.
Wilson-Maeulen Co., 1 E. 42d, New York

## 10572— Silica Mfrs.

Atlas Mineral & Machine Co., Lincoln, N. J.
Babcock, H. H., Mystic, Conn.
Bridgeport Wood Finishing Co. ("Lithowite"), New Milford, Conn.
Columbia Silica Co., Portage, Wis.
Davidson, Jas. H. (Inc.), 239 Front, New York
Downer, S. W. (Miners), Downer, N. J.
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Hanna & Andrus Mfg. Co. ("F. S. A." & Star White"), Chicago, Ill.
Hoosac Co., North Adams, Mass.
Illinois Mineral Milling Co., E. St. Louis, Ill.
International Pulp Co., 41 Park row, New York

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Nevins, Samuel Co., 109 S 2d, Phila, Pa.
Ohio Marble Co., Piqua, O.
Oxford Tripoli Co. (Ltd.), 11 B'way, New York
Reynoldsville Silica Co., Reynoldsville, Ill.
**RUTLAND FIRE CLAY CO. (Crude & Pulverized), Rutland, Vt. (See adv. index & branch offices, end of book)**
Salomon, L. A. & Bro., 216 Pearl, New York
Thomas, Arthur H. Co., 12th & Walnut, Phila., Pa.

## 10573– Silicate of Soda

**General Chemical Co., 25 Broad, New York**
Graselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Mechling Bros. Mfg. Co., 949 N 9th, Phila., Pa.
Philadelphia Quartz Co., 121 S 3d, Phila., Pa.
St. Louis Chemical Co., St. Louis, Mo.
Thomsen Chemical Co., Baltimore, Md.

## 10574– Silico-Manganese

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 10575– Silico-Spiegel

Dana & Co., 32 B'way, New York
**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 10575a–Silicon-Calcium-Aluminum

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 10576– Silicon-Chronium

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 10576a– Silicon-Manganese-Aluminum

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 10577– Silos

**BALTIMORE COOPERAGE CO., THE,** cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Butler Mfg. Co. (Steel), Kansas City, Mo.
Colby Cheese Box & Silo Co., Colby, Wis.
Continental Portland Cement Co. (Concrete), St. Louis, Mo.
Creamery Package Mfg. Co., Chicago, Ill.
Deere, John Plow Co., Kansas City, Mo., & Omaha, Neb.
Des Moines Silo Co., Des Moines, Ia.
Duplex Mfg. Co., Superior, Wis.
Economy Silo & Mfg. Co., Frederick, Md.
Farmers Handy Wagon Co. ("Handy", All Steel Frames), Saginaw, Mich.
Harder Mfg. Co., Cobleskill, N. Y.
Harry Bros. Co. ("Harry's" Knock-Down, Galvanized Steel), Newport, Ky., & New Orleans, La.
Harry, H. W. Mfg. Co., Kansas City, Mo.
Indiana Silo Co., Anderson, Ind.
International Silo Co., Linesville, Pa.
Loomis, J. H. & Sons ("Loomia"), Phoenix, N. Y.
Nebraska Silo Co., Lincoln, Neb.
Iowa Tank & Silo Co., Waterloo, Ia.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Peek, S. H., East Aurora, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Ross, E. W. Co. (Wood), Springfield, O.
Schlichter, E. F. Co., 10 S 18th, Phila., Pa.
Severance Tank & Silo Co., Lansing, Mich.
**STEARNS, A. T. LUMBER CO., Boston, Mass. (See adv. index, end of book)**
Stevens Tank & Tower Co. ("Dirigo," Wood), Auburn, Me.
Tornado Silo Co., Massillon, O.
Twin City Tank Silo & Specialty Co., Minneapolis, Minn.
Unidilla Silo Co., Unidilla, N. Y., & Des Moines, Ia.
Van Slyke & Co. (Round), North Tonawanda, N. Y.
Walrath-Abram Co., Weedsport, N. Y.

## 10578–Silversmiths for Chemical Work

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 10579–Single Phase Railway System

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)**

## 10580–Singletrees, Doubletrees & Whiffletrees

Adams, E. B. & Son, Racine, Wis.
American Hame & Mfg. Co., New Albany, Ind.
Automatic Yoke Co. (Single Trees, etc.), Indianapolis, Ind.
Avery, B. F. & Son, Louisville, Ky.
Blondell-Lane Concrete Bar Co., Buffalo, N. Y.
Buckeye Handle, Gear & Bending Co., Alliance, Ohio
Campbell & Dann Mfg. Co., Tullahoma, Tenn.
Collins, Hilton, Louisville, Ky.
Corry Handle & Novelty Co., Corry, Pa.
Diamond Forging & Mfg. Co., Pittsburg, Pa.
Empire Plow Co. (Steel), Cleveland, O.
Faeth Iron Co., Kansas City, Mo.
Fee-Crayton Hardwood Lumber Co., Little Rock, Ark.
Harris Mfg. Co. (Singletrees), Johnson City, Tenn.
Hartwell Bros. (Singletrees), Chicago Heights, Ill.
Howland Mfg. Co. (Whiffletrees, etc.), Pontiac, Mich.
Hoyt, John H., Delaware, N. J.
Lack Single Tree Co., Paducah, Ky.
Pioneer Pole & Shaft Co., Piqua, O.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Tanner, D. F., Helland, N. Y.
Thompson-Bassett Co. (Steel), Ypsilanti, O.
Thornburgh Mfg. Co., Bowling Green, O.
Tower & Sullivan Mfg. Co., Rome, Ga.
United States Pressed Steel Co. (Pressed Steel), Ypsilanti, Mich.
Von Behren Mfg. Co., Evansville, Ind.

## 10581–Singletrees (Hay Hoisting)

Louden Machinery Co., Fairfield, Iowa
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Porter, J. E. Co., Ottawa, Ill.

## 10582– Sink Backs

Lalance & Grosjean Mfg. Co. (Seamless Wrought Steel), 299 B'way, New York

## 10583–Sinks (Copper & German Silver)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## Sinks (Porcelain)

**(See Bath Tubs, Porcelain)**

## 10584– Sinks & Trays

**(See also Bath Tubs, Various Kinds; also Laundry Tubs, Various Kinds)**
Alberene Stone Co. (Soapstone), 223 E 23d, New York
**Allen's, S. Sons (Slate), Fair Haven, Vt.**
American Porcelain Co. (Porcelain Sinks), New Brighton, Pa.
Auld & Conger (Soapstone), Cleveland, O.
American Sanitary Mfg. Co. (Enameled Iron), Wheeling, W. Va.
Barber Mfg. Co. (Cast Iron, White Enameled, etc.), Ashtabula, O.
Bieg, Henry (White Porcelain), 56 Wallabout, Brooklyn, N. Y.
Blairsville Enameled Ware Co. (Enameled Iron), Blairsville, Pa.
Cahill Iron Works ("Southern Beauty" Enameled Iron), Chattanooga, Tenn.
Central Foundry Co. (Cast Iron), 90 West, New York
Day-Ward Co. (Enameled Iron), Warren, O.
Douglas, Jno. Co., Cincinnati, O.
Glenn Mfg. Co. (Kitchen & Slop Sinks), St. Charles, Ill.
Graham, Charles Chemical Pottery Works (White Porcelain & Brown Vitrified), 986 Metropolitan av, Brooklyn, N. Y.
Hercules Iron & Supply Co. (Cast Iron), Anniston, Ala., & 427 Commercial, Boston, Mass.
Humphreys Mfg. Co. (Cast Iron Porcelain Enameled), Mansfield, O.
Iron City Sanitary Mfg. Co. (Enameled Iron), Pittsburg, Pa.
Iron Clad Mfg. Co. (Sheet Steel), 204 Varet, Brooklyn, N. Y.
Keenan Structural Slate Co. (Slate), Bangor, Pa.
Kilbourne & Jacobs Mfg. Co. (Wrought Steel), Columbus, O.




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Kohler's, J. M. Sons Co. (Enameled Iron), Sheboygan, Wis.
**KOVEN, L. O. & BRO., 50 Cliff, New York,** (See adv. index, end of book)
Lalance & Grosjean Mfg. Co. (Seamless Wrought Steel, "L. & G."), 299 B'way, New York
Limberg Foundry & Enameling Wks. (Enameled Iron), Cincinnati, O.
Lodge Mfg. Co. (Cast Iron Stamped), South Pittsburg, Tenn.
McCrum-Howell Co. (Enameled Iron), 103 Park av, New York
McVay & Walker (Enameled), Braddock, Pa.
Maddock, Thomas Sons Co. (Earthenware), Trenton, N. J.
Meadow Brook Slate Co. (Slate Sinks), Slatington, Pa
Mott, J. L., Iron Works (Porcelain & Iron Enameled), 118 5th av, New York
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Sanitary Mfg. Co. (Enameled Iron), Salem, O.
Nelson, N. O. Marble Co. (Slate), Edwardsville, Ill.
New York Slate Works (Slate), 255 E 138th, New York
Norcross Co. (Euclid Stone), Cleveland, O.
Phoenix Slate Co. (Slate), Windgap, Pa.
Ronalds & Johnson Co. (Copper), 54 Cliff, New York
Rumsey & Co. (Ltd.) (Cast Iron), Seneca Falls, N. Y.
Scotch Hill Slate Co. (Slate), Fair Haven, Vt.
Standard Sanitary Mfg. Co. (Enameled Iron), Pittsburg, Pa.
Steiger Terra Cotta & Pottery Wks. (Glazed Clay), San Francisco, Cal.
**STEIN, HENRY (Mfr. Agt.) (Enameled Iron), 48 Cliff, New York**
Swett, A. L. Iron Works (Cast Iron), Medina, N. Y.
Trageser's, Jno. Steam Copper Works (Copper), 447 W 26th, New York
Trenton Potteries Co. (Earthenware), Trenton, N. J.
United States Sanitary Mfg. Co. (Enameled Iron), Arrott bldg, Pittsburg, Pa.
Volrath, J. J. Mfg. Co. ("Vollrath" Enameled Sinks), Sheboygan, Wis.
Walls, Owen & Stambach Co. (Soapstone), 11th & Ridge av, Phila., Pa.
Weiskittle, A. & Son (Enameled Iron), Baltimore, Md.
Wolff, L. Mfg. Co. (Cast Iron, Steel, Porcelain Lined, Grey, Enameled. Slate & Soapstone), 601 W Lake, Chicago, Ill.

## 10585—Sirens for Fog, Fire & Factory Signals

**BROWN, A. & F. CO., ("F. Brown's"** Self-Acting), 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

## 10586— Sirens (Steam)

**BROWN, A. & F. CO. ("F. Brown"** Self-Acting Fog, Fire & Factory Signals), 172 Fulton, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.

## 10587— Size

(See also Paste)

American Type Founders Co. (Gold), 6 Duane, New York
Arabol Mfg. Co. (Dry Rosin; also Hot & Cold Water, etc.), 100 William, New York
Ault & Wiborg Co. (Gold), Cincinnati, O.
Babcock, Jno. & Co. (Gold), 86 Western av, Boston, Mass.
Calumet Mfg. Co., Adams, N. Y.
Carolina Sizing Co., Charlotte, N. C.
Cleveland Varnish Co. (Gold), Cleveland, O.
Devoe, F. W. & C. T. Reynolds Co. (Gold), 103 Fulton, New York
Diamond Paste Co. (Vegetable), Albany, N. Y.
**FOX, M. EWING & CO. (Paper-**hangers), 240 E 136th, New York. (See adv. index, end of book)
Gillespie, L. C. & Sons (Gold), 6 Fletcher, New York
Holt, J. & Co., Lowell, Mass.
Hoyt, Arthur S., 90 W. B'way, New York
Keystone Paste Co., 232 N Water, Phila., Pa.
Longman & Martinez (Gold), 207 Pearl, New York
McMeekan, D. Mfg. Co. (Paper), 1070 Pacific, Brooklyn, N. Y.
Mayer & Loewenstein (Gold), 164 Water, New York
Morrill, Geo. H. Co. (Gold), 155 Pearl, Boston, Mass.
Paper Makers Chemical Co. (Rosin, Combination Paper Makers), Easton, Pa.
Pierce, F. O. Co. (Gold), 12 W B'way, New York
Salomon, L. A. & Bro. (Gold), 216 Pearl, New York
Sisk, R. J. (Paperhangers & Painters), New London, Conn.
Vera Chemical Co. ("Vera" Paper), North Milwaukee, Wis.
Waxine Size Co., Fall River, Mass.
Wiggins, H. B. Sons Co., Bloomfield, N. J.

## 10588—Sizers (Wood Turners')

Kraeuter & Co., Newark, N. J.

## 10589—Sizing (Decorators')

Manhattan Color Works ("Manhattan" Alum Size), 197 Amsterdam av, New York

## 10589a—Sizing for Whitewash

**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)

## 10590— Skate Mfrs.

Baltimore Skate Mfg. Co. (Roller), 6 W Lombard, Baltimore, Md.
Barney & Berry (Ice), Springfield, Mass.
Brown Spring Ice Skate Co. (Ice), Webster City, Iowa
Chicago Roller Skate Co. (Ball Bearing), 1123 Washington blvd, Chicago, Ill.
Henley, M. C. (Ice & Roller), Richmond, Ind.
Kennedy Skate Co., 301 W Indiana, Chicago, Ill.
Johnston, Nester (Ice), 1237 N California av, Chicago, Ill.
Lowentraut, P. Mfg. Co. ("U. S." Ice), Newark, N. J.
National Arms & Stamping Co. ("Nasco," Extension Truss Bridge Roller Skates), 215 N. 2d, Phila., Pa.
Richardson Ball Bearing Skate Co. (Pneumatic Roller), 311 W Michigan, Chicago, Ill.
Union Furnace Mfg. Co. (Ice), Union Furnace, Pa.
Union Hardware Co. (Ice & Roller), Torrington, Conn.
Winslow, Samuel Skate Mfg. Co. (Ice & Roller), Worcester, Mass.

## 10591— Skeins (Wagon)

American Skein & Foundry Co. ("Rocky Mountain" Steel, "Sandage," "Columbus," "Red Label," "Anderson Leader" Wrought Steel, "D. V.," "Indiana" Cast, "Brown's," "Hoosier"), Racine, Wis.
Illinois Iron & Bolt Co. ("D. V. & Co," "I. I. & B. Co.," "Dundee" Cast Iron, "Wright" Sand Arrester, "Columbia" Steel, etc.), Carpentersville, Ill.
Schreyer, G. (Steel), Columbus, O.
Southern Skein & Foundry Co. (Steel & Cast), Chattanooga, Tenn.

## 10592—Skeins & Boxes (Thimble)

Colebrookdale Iron Co., Pottstown, Pa.

## 10593—Skewers (Steel, Meat)

Brewer Bros., 614 Filbert, Phila, Pa.
Central Stamping Co., 174 Fulton, New York
Hamblin & Russell Mfg. Co., Worcester, Mass.
Landers, Frary & Clark, New Britain, Conn.
McVoy Tub, Pail & Package Co., Minneapolis, Minn.
National Mfg. Co., Worcester, Mass.

## 10594— Skewers (Wood)

Bogert & Hopper Co. (Meat & Burlap), 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Weis & Lesh Mfg. Co., Muncie, Ind.
Woodworking Co., Bay City, Mich.

## 10595— Skidders (Log)

**LIDGERWOOD MFG. CO., 96 Liber-**ty, New York (See adv. index & branch offices, end of book)
Lindsey Wagon Co. (Self-Loading), Laural, Miss
**RUSSEL WHEEL & FOUNDRY CO.,** (Steam), Detroit, Mich. (See adv. index, end of book)

## 10596— Skids

Boston & Lockport Block Co., Boston, Mass.
Diamond Iron Works, Minneapolis, Minn.
Fairbanks Co., Broome & Lafayette, New York
Western Wheel Barrow & Mfg. Co., Kansas City, Kans.
Farmer's Handy Wagon Co. (Gasoline Engine), Saginaw, Mich.
Gruman Ice Tool Works, Branchville, Conn.
Howe Scale Co., 1315 Wabash av, Chicago, Ill.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
**NATIONAL IRON CO., (Mining &** Derrick), Duluth, Minn. (See adv. index & branch offices, end of book)
New York Wheelbarrow Co., 180 West, New York
Western Wheel Barrow & Mfg. Co., Kansas City, Kans.
Zering, H. Mfg. Co., Cincinnati, O.

## 10597— Skids (Car)

Lord Mfg. Co. ("Bradshaw"), 213 W 40th, New York

## Skimmers (Boiler)

(See Cleaners, Skimmers, Boiler)

## 10597a—Skips (Cableway)

**INSLEY MFG. CO., Indianapolis,** Ind. (See adv. index & branch offices, end of book)

## 10598— Skips (Mining)

**ALLIS-CHALMERS CO. (Dumping &** Hoisting), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams (Vertical Self-Dumping), Chicago Heights, Ill.
Cockburn Co. ("Lockwood" Automatic), Jersey City, N. J.
Globe Iron Works (Inc.) (Ore & Water), Stockton, Cal.
Imperial Iron Works, Duluth, Minn.
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.
Lake Shore Engine Works, Marquette, Mich.
Leyner, J. Geo., Engineering Works Co., Littleton, Colo.
Magor Car Co., 50 Church, New York

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Stephens-Adamson Mfg. Co. ("S.-A." Steel), Aurora, Ill.
Traylor Engineering Co., Allentown, Pa., & 30 Church, New York
Truax Mfg. Co., Denver, Colo.
Wellman-Seaver-Morgan Co., Cleveland, O.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 10599—Skips (Stone or Concrete)

**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
**INSLEY MFG. CO., Indianapolis,** Ind. (See adv. index & branch offices, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.
Stuebner, G. L. Iron Works (Steel), Long Island City, N. Y.
**UNION ELEVATOR & MACHINE CO.** (Steel or Wood), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Williams, G. H. Co., Rochester bldg, Cleveland, O.

## 10599a— Skylight Bars

**KINNEAR MFG. CO. (Steel Lead** Covered), Columbus, O. (See adv. index and branch offices, end of book)

**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER**

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## 10600—Skylight Ventilating Apparatus

(See also Ventilating Apparatus for Greenhouses & Buildings)

**DROUVE, G. CO. ("Lovell") 40 Tulip,** Bridgeport, Conn., & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)
Enterprise Mfg. Co. (Automatic), Newburgh, N. Y.
Howard, S. I. (Automatic Lift), Worcester, Mass.
Lyster Sheet Metal Co. ("Lyster"), 1216 Filbert, Phila., Pa.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
National Ventilating Co., 327 E 26th, New York
Payson Mfg. Co. ("Harris"), 2918 W Jackson boul, Chicago, Ill.
Quaker City Machine Co. ("The Evans"), Richmond, Ind.
Weathered Co., 196 Orient av, Jersey City, N. J.

## 10600a—Skylight Wire Glass

**MISSISSIPPI WIRE GLASS CO., 115** B'way, New York (See adv. index & branch offices, end of book)

## 10601— Skylights

(See also Cornices, Galvanized Iron, Etc.; also Roofers & Tinners)

### ALABAMA.

BIRMINGHAM—Spiro Hardware Co.
Wheelock, Geo. F. Co.

### CALIFORNIA.

LOS ANGELES—Panzer-Hamilton Co. (Inc.)
OAKLAND—Heidt, W. Cornice Works, 916 Webster
PASADENA—Munger & Munger Co.
SAN FRANCISCO—Cordt, W., Cornice Works,
Cronan, Wm., 19 City Hall av. 150 1st
Finestein, Hy., 1866 Howard
Forderer Cornice Works, 269 Petrero av
Jackson, P. H. Co., 228 1st

### COLORADO.

DENVER—Fair, Chas. W. Cornice Works Co.,
Kessler, Fred., 2708 Larimer 1809 Blake
Penn Metal Ceiling & Roofing Co., 3060
Wahlgren, Jno. A., 1933 Curtis Newton

### CONNECTICUT.

BRIDGEPORT—Bridgeport Cornice Works, 227 John
**DROUVE, G. CO. ("Anti-Pluvius"), 40** Tulip. (See adv. index, end of book.)
Hurley, Jas. J., 606 E Main
Kirk, Wm. P. Co., 360 Fairfield av
Mills, L. H., 32 Middle
Reilly, J., Jr., 283 State
Schwing, John Corp., 863 Wood av
HARTFORD—Beseman & Bostwick, 44 Ann
Lurie, Aaron, 172 Allyn
Stelling, Frederick W., 93 Franklin
MERIDEN—Griswold, Richmond & Glock Co.
NEW HAVEN—Bradley Co., 158 Orange
Buckingham, Routh Co., 151 Court
Dorman & Cugell, 243 Congress av
Rourke Bros. Co., 884 Grand av.
WATERBURY—Barlow Bros. Co., 63 Grand
Disley, William T. (Inc.), 276 Bank
Gill, John M., 256 N Main
Hardwick, C. A., 13 Bishop
Weyand, Henry Co. (Inc.), 16 Jefferson

### DELAWARE.

WILMINGTON—Wilmington Cornice Works

### DISTRICT OF COLUMBIA.

WASHINGTON—Beck, Jos. F., 425 K, n w
Giclas, H. J., 113 4½ SW
Hulse, Edgar J., 321 13th, n w
Mathy Co., 1918 Pennsylvania av, n w
Stockstill, D. W. & Co., 211 12th, n w
Whyte, W. M., 306 13th, n w
Wolfsteiner, O. L. Co., 1315 W, n w

### GEORGIA.

ATLANTA—Dowman-Dozier Mfg. Co., 20 Trinity av.
Warlick Sheet Metal Mfg. Co.

### ILLINOIS.

BRADLEY—Watson, Jas. H. Co. (Inc.)
CHICAGO—**AMERICAN LUXFER PRISM** Co., Heyworth bldg. (See adv. index, end of book)
Anderson, Lars, 465 Grand av
Armbruster, Louis, 767 Lincoln av
Bremer, Henry F., 1136 W 13th
Burkhardt, G. Mfg. Co., 940 N Clark
**CHICAGO SIDEWALK LIGHT CO.,** Shields av & 33d. (See adv. index, end of book)
Clasen, E. L. & Co., 3114 Shields av
Dauchy Iron Works (Iron Frame), 84 Illinois
Erickson, Jno. T., 4430 La Salle
Farwell Cornice Co., 1304 Southport av
Griffith Cornice Works, 2441 Wabash av
Gross, Geo. M., 1445 State
Illinois Roofing & Cornice Co., 1144 W Kinzie
Jaeger, Fred. J. C., 571 W 17th
Jennings, M. L. Co., 57 W Jackson boul
Jensen, C. E., 1218 W North av
Knisely Bros., 28th pl & 5th av
**KNISELY, H. C. CO., 506 S Canal,** (See adv. index, end of book)
Krefting, Edw., 117 W Van Buren
Kuder, C. V. Co., 5315 Wentworth av
Lang, Wm., 300 Warsaw av
Liddle, Robert, 2608 State
**McFARLAND, J. C. & CO., 27th &** 5th av. (See adv. index, end of book)
McIlroy Cornice Works, 1519 State
Miller, Jas. A. & Bro., 114 S Clinton
Noyes, E. A., 1606 W Lake
Perkinson & Brown, 113 N Lincoln
Peter, Jno., 632 N Wood
Purdy & Cauble, 800 W 63d
Rysdon, E. A. & Co., 627 W 41st
Slavik & Co., 425 Blue Island av
Spiess, Edw., 954 N Clark
Sykes Steel Roofing Co., 930 W 19th pl
Universal Cornice & Roofing Co., 970 S Troy
Voigtmann, Frank Cornice Co., 324 W Indiana
Wagner Bros., 1350 Diversey boul
Warner, Chas. W., 93 W Harrison
Yeldham, H. G. (Metal), 269 W Van Buren
GALESBURG—Galesburg Cornice Works
Willis Mfg. Co.
KANKAKEE—Renter, Henry
LA SALLE—Camenish, G. S.
MOLINE—Willis & Sons Co.
PEORIA—Bushnell, A. A. & Son, 1317 S Washington
Hunter & Strehlow, 114 S Adams
Johnson, Chas. Hdw. Co., 2023 S Adams
Kellerstrass, Robert
Meyer, F. & Bro. Co., 305 Gallatin
Peoria Roofing Co., Maple & Forsythe
Wilson, R. L. & Co., 3017 S Adams
QUINCY—Berghofer, Mitchell Co.
ROCKFORD—Drake Tucker Hardware Co.
Martin, Alfred & Co.
SPRINGFIELD—Foster, Wm. & Sons Co.
Robinson, Henson Co.
STERLING—Taylor, F. R. & Co.
STREATOR—Powers & Williams (Galvanized Iron)

### INDIANA.

EVANSVILLE—International Steel & Iron Construction Co.
Lohse, H. Co.
Mesker, Geo. L. & Co.
FORT WAYNE—Gerding & Aumann Bros.
Welch, J. H. & Sons, 190 Calhoun
INDIANAPOLIS—Ensey, Orvis B., 1308 N Senate
Gardner, Jos., 37 Kentucky av
Humphreys & Sargent, 124 E Court
Indianapolis Corrugating Co.
MARION—Hollinger, M. G. & Co.
SOUTH BEND—Lauber, J. C. & Co.
TERRE HAUTE—Smith's, C. C. Sons Co.
VINCENNES—Vincennes Galvanized Works

### IOWA.

CEDAR RAPIDS—Cedar Rapids Cornice Works
Grissel, J. P. Cornice Co.
DAVENPORT—Hipwell, Chas. G.
Reimers, P. A.
DES MOINES—Kurtz, L. H. Co.
Kurtz, L. H. Co.
St. John & Barquist Co.
DUBUQUE—Klauer Mfg. Co.
IOWA CITY—Maresh Bros.
OSKALOOSA—Wells, Porter & Stump

### KANSAS.

ATCHISON—Walcott, H. C.
INDEPENDENCE—Union Sheet Metal Works
NEWTON—Bergh, Wm.
PITTSBURG—Schultz & Axton
TOPEKA—Van Dorp, Louis

### KENTUCKY.

COVINGTON—Glaser, Wm. A. Roofing & Cornice Works
LEXINGTON—Bitterman, Edw. & Son
LOUISVILLE—Heartick, E. G., 1308 Preston
Louisville Cornice & Roofing Co., 226
Wagner, J. F. & Sons, 1375 7th 10th
Wulff, W. C. & Co., 603 E Jeff'n
NEWPORT—Rust, Lawrence & Son, 909 Monmouth
OWENSBORO—Southern Foundry Co.

### LOUISIANA.

NEW ORLEANS—Eichorn, Mrs. Ludwig
New Orleans Roofing & Metal Works, 929 Lafayette

### MAINE.

LEWISTON—Stetson, J. H. Co.
PORTLAND—Hollivan & Parker, 56 Cross
Hutchinson & Cain, 438½ Fore
Scott, Wm. H. Co., 29 Union

### MARYLAND.

BALTIMORE—Banks, Wm. H. & Sons, 405 Druid Hill av
Bartlett, Hayward & Co., Continental bldg
Clifton Cornice & Skylight Works, 427 N
Cotton, Wm. E., 1600 Hartford av High
Fingles, W. A., 1533 Maryland av
Fitzberger, Jno. Metal Cornice Co., 113 Clay
Hetzell, Jno. G. & Son, 225 N Howard
Kohlhepp, A., 406 N Howard
Lenderking, P. H., Jr., Dillon & Patuxent
Moore, A. D., 405 Druid Hill av
Northwestern Cornice Works, 1506 Penna av
Pruden, C. O. Co., Warner, Bayard & Dock
Valle & Young, 216 N Calvert
Wilhelm, J. F., 748 Pennsylvania av
Zimmers, A. M., 1808 Frederick av

### MASSACHUSETTS.

BOSTON—Ames & Ginty, 101 Tremont
Anderson, C. & Co., 41 Way
**BADGER, E. B. & SONS CO., 75 Pitts.** (See adv. index, end of book)
Boston Cornice & Skylight Co., 43 Bristol
Finkelstein, M., 37 Spring
Forrest, Alfred W., 464 Harrison av
Gulesian, M. H., 16 Waltham
Harrigan, J. & Son, 111 Liverpool
Hicks, S. D. & Son, 17 Bowker
Jeffers, Wm., 77 E Joy
Maguire, W. J., 46 Cornhill
Marley Bros., 1 Wareham
Mayberger, Edw. F., 1 Willow Park
Pemple, Fred'k, 1462 Columbus av
Pemple, Geo. Co., 27 Eustis
Raymond, John B. Co., 48 India
Union Cornice Co., 7½ Appleton
Van Noorden, E. Co., 944 Mass. av
Williams & Poore, 33 Haverhill
CAMBRIDGE—Douglass, Geo., 266 Prospect
Eagle Cornice & Skylight Works
FALL RIVER—Hughes, J. T., 140 3d
FITCHBURG—Jennison Co.
HOLYOKE—Frederich, E. Hugo
LOWELL—Cushing, Daniel & Co.
Mack, W. A. Co.
LYNN—Bee, Jno. D. & Sons
NEW BEDFORD—Wood, Brightman & Co.
QUINCY—Angier Mills (Rubber Glass)
SALEM—Eklund, Victor
SPRINGFIELD—Atwater, E. C. & Co., 21 Taylor
Brunton, M. J. & Son, 173 Liberty
Hampden Cornice Works, 26 Taylor
Pratt, H. J. & Co., 97 Dwight
Radding 1Co., 359 Chestnut
Treuchet, F. E., 29 W Bridge
Wilson, Robt., 341 Worthington
WORCESTER—McNally, D. E. & Co., 24 Houghton
New England Steel Roofing Co., 274 Main

### MICHIGAN.

BATTLE CREEK—Battle Creek Furnace & Roofing Co.
DETROIT—Berschbach & Herz, 599 Gratiot av
Bertling, Paul C., 344 Grand River av
**BURTON, W. J. CO., 161 W Con**gress. (See adv. index, end of book)
Candler, J. D. & Co., 177 High, E
Clark, James F., 18 Grant ct
Detroit Cornice & Slate Co., 145 St. Antoine
Eagle Cornice & Roofing Co., 959 Fort, W
Hines, H. C. & Co., 354 Humboldt av
Howie Roofing Co., 374 4th av
Hutton, Rob't & Co., 112 Fort, E
Lewis, Henry B., 45 Jos Campau av

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Michigan Cornice & Slate Works, 117
Orth, Adam J., 166 Hastings
Pudrith & Candler, 76 Brush
Union Sheet Metal Works, 815 Russell
Voigt & Sexauer, 148 Sherman
Wrench, C. E., 200 Reaubien
GRAND RAPIDS—Grand Rapids Sheet Metal & Roofing Co.
Hopson, W. C. & Co., 25 Campau
Reynolds, H. M. Roofing Co.
Sokup, F. J., 121 S Front
Weatherly Co.
JACKSON—McGraw & Crone
KALAMAZOO—Kalamazoo Cornice Works
Saginaw Sheet Metal Works (Saw Tooth & Regular), Saginaw, Mich.
Valley Cornice & Slate Co., Ltd., 300 N Hamilton, W. S.
SAGINAW—Jacobi, Alexander, 809 Genesee av
**VALLEY CORNICE & SLATE CO.,** Ltd., 300 N Hamilton, W S, (See adv. index, end of book)

## MINNESOTA.

DULUTH—Burrell & Harmon, 18 W 1st
Deetz & Co., 108 W 1st
Duluth Corrugating & Roofing Co.
Helbing, L. R. Co.
Hollihan & Milostan
MINNEAPOLIS—Crittendon Roofing & Mfg. Co., 918 S 4th
National Roofing & Concrete Co., 1412 S
Nees, Louis & Co., 1207 3d, S 7th
Northwestern Roofing, Cornice & Stamping Works, 1111 S 5th
Selden Roofing & Mfg. Co., 76 Western av
Stremel Bros. Roofing & Cornice Co., 1215 Washington av, N
ST. PAUL—Griffin & Boehme, 121 University
Laubach, Jacob A., 152 Baker av
Lefebvre-Deslauriers Roofing & Cornice Co., 311 Chestnut
Minnesota Roofing & Cornice Wks., 135 12th
**ST. PAUL ROOFING, CORNICE &** Ornament Co. (See adv. index, end of
Scribner-Libbey Co., 219 W 5th book)
WINONA—Magnus & Wilkens
Magnus & Wilkens

## MISSOURI.

CAPE GIRARDEAU—Vogel, W. H.
KANSAS CITY—Kornbrodt Kornice Co., 1811
Monarch Metal Mfg. Co. Froost av
Sick, W. F., 2804 E 18th
Stoeltzing Stove & Hardware Co., 1605
Twichell Iron Co., 220 W 3d Grand av
Vanstone, Walter, 2910 E 18th
Weis, Henry Cornice Co., 1811 Wyandotte
MOBERLY—Stauffer, P. & Co.
NEVADA—Norman, W. F. Sheet Metal Mfg. Co.
ST. JOSEPH—Seaman & Schuske Metal Works, 1604 Frederick av
Wehrman, Wm., 119 N 2d
ST. LOUIS—Blohm, Chas. H., 1120 Emmet
Gerock Bros. Mfg. Co.
Hiller & Chambers, 4579 Easton av
Mesker & Bro., 421 S 6th
Murphy, E. & Co., 3727 Easton av
Powers & Boyd Cornice & Roofing Co.
Souther, E. E. Iron Co., St. Louis, Mo.
Von-der-Au & Cluss Mfg. Co., 2404 S Jefferson av

## MONTANA.

HELENA—McKinnon, H. A., 405 N Main
Mitchell, John, 352 N Main

## NEBRASKA.

CRAWFORD—McNair, Robert
OMAHA—Carter, R. L., 1724 St. Mary's av

## NEW HAMPSHIRE.

MANCHESTER—Lawson, H. J.

## NEW JERSEY.

BAYONNE—Devanney, J. J., 297 B'way
CAMDEN—Metallic Mfg. Co.
ELIZABETH—Elizabeth Cornice Works
Hoffman, L. A. & Son
HOBOKEN—Dorsett, T. W. Co.
Leonard Sheet Metal Works (Inc.), 219 Grand
JERSEY CITY—Anderson Bros. Co., 304 Grove
**NATIONAL SHEET METAL ROOF**ing Co., 339 Grand. (See adv. index, end of book)
Pfistner, Fred'k, 108 Lincoln
Rader, Henry, 27 Thorne
Ringle, Jacob & Son, 83 Newark av
Schreck & Waelty, 27 Hague
NEWARK—Allwood, Jos. R., 39 Marshall
Baier & Conrad, 336 Hunderton
Berla, Elias, 232 Mulberry
Bleeker, Jos., 130 South
Central Cornice & Skylight Works, 160 N 1st
Ding & Teuscher, 476 18th av
Engelberger, F. & W. V. Co., 159 Jelliff av
Essex Cornice & Skylight Works, 109 Houston
Hammond, Theo. C., 13 Ferry
Himmel, Louis & Co., 115 Belmont av
Newark Cornice & Skylight Works, 9
Schwing & Co., 190 Ferry 17th av
Smith, Frank F., 19 Division
Steinberg, Jacob, 225 Belmont av
Zenglein, John A., 45 Winans av
PASSAIC—Falstrom & Tornquist
PATERSON—Lendrim, H. C. Co., 82 Clay
McNeil, Lawrence W.
Quinn Bros., 9 Fair
SCOTCH PLAINS—Jahns, Robert Sons
WEST HOBOKEN—Gutschmidt, W. H., 810 John

## NEW YORK.

ALBANY—Ackroyd, James & Sons, 964 B'way
Fitzgerald, Jno. L., 22 Beaver
Gorman, Jas. J., 14 Norton
Hoffman, J. H. B., 90 Green
Hood, W. R., 115 Hamilton
MacNee & Rabe, 659 B'way
Walsh's, James D. Sons, 40 Sheridan av
BINGHAMTON—Freeman, E. G. & Co.
McIntyre & Hull
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bauer's, Chas. Sons, 59 William
Christmann, Philip & Sons, Virginia & Orange
Degenhart & Co., 1910 Niagara
Eberz, Peter, 285 Dearborn
Elsinghorst, John H., 574 Michigan
Gruber, Rupert & Co., 541 Sherman
Lindsay, Wilson, 167 E Ferry
Machwirth Bros. Co., 201 Oak
Peters, G. H. Co., 289 Oak
Rademacher Bros., 345 Fox
COHOES—Loop, Wm. H.
ELMIRA—Barker, Rose & Clinton Co.
KINGSTON—Wieber, Henry E. (Est. of)
NEWBURGH—Atlas Roofing Co.
Shannon & Co., 107 Liberty

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Ahern, A. W., Bay 24th av nr Bath
Baussmann, Henry, 8 Lombardy
Beer, Max F., 1622 B'way
Bent & Becker, 329 Myrtle av
Blecher Bros., 49 Nostrand av
Bloch, Jos., 34 Grand
Buchanan, Wm., 488 Sumner av
Buell, C. S. Co., 26 Court
Burger & Gohlke, 232 7th
City Cornice & Skylight Co., 908 Flushing
Cohen, Henry, 395 Rockaway av av
Davis', John Sons, 170 Court
Friedberg & Klein, 278 Division av
Gogarty, Michael J. (Copper & Galvanized Iron), 1531 Fulton
Greenthaler, Chris., 333 Throop av
Haines, A., 87 Fulton
Herrmann & Grace, 671 Bergen
Hoellerer, Jos., 91 Union av
Kuhnia, August, 10 Lorimer
Metropolitan Cornice & Skylight Works, 79 Metropolitan av
Mildner, Chas., 465 Flushing av
Muller, E. A. & Bro., 687 4th av
Ostergren, Samuel & Sons, 727 3d av
Otto, Jno. M., 46 Maujer
Schratwieser Fireproof Construction Co., 426
Seton, John, 78 Washington av 3d av
Wachter, Gus H., 129 Stanhope
Weiss, Adolph, 963 Myrtle av

### Boroughs of Manhattan & Bronx.

NEW YORK—Abbott's, M. Sons, 137 8th av
**AMERICAN LUXFER PRISM CO.,** 507 W B'way. (See adv. index, end of
Anderson, Albin, 291 E 137th book)
Architectural Cornice & Skylight Works, 325 W 38th
Architectural Metal Works, 1192 2d av.
Bauman, Jos. & Son, 79 E 4th
Beer & Hess, 223 W 35th
Berglund, Chas. & Sons, 774 3d av
Bickelhaupt, Geo. Skylight Works, 243 W
Bickford, Andrew, 3240 Bronx bldg 47th
Bois Sheet Metal Works, 1836 Washington
Breivogel, Geo., 46 Rose av
Bronx Metal Works, 1833 Washington av
Cary-Doerhoefer Co., 126 E 129th
Coleman & Krause, 515 W. 29th
Curry, P. & Son, 61 Wooster
Dietze, Oscar, 242 E 80th
Erker, Adam M., 432 W 37th
Essenwanger, Chas., 280 E 148th
Fordham Cornice Works, 684 Pelham av
Ginger Skylight Co., 218 W. 37th
Goldman, Barney, 520 W. 40th
Harlem Cornice & Roofing Co., 1960 Park
Harrison, M. & Son, 214 E 52d av
Hayes, George Co., 71 8th av
Hell Gate Sheet Metal Works, 236 E 95th
Kalbert, Adolph & Son, 170 3d
Kramer, Morris, 569 3d av.
Lupton's, David Sons Co., 50 Church
**McFARLAND, J. C. & CO., 410 E** 32d. (See adv. index, end of book)
Mark, Jacob Sons (Iron Frame), 7 Worth
May, Wm. M. Co., 798 11th av
Morrow, Jno. Co., 225 W 50th
National Ventilating Co. (Steel Puttyless), 337 E 26th
New York Prism Co., 497 W B'way
Nicholson & Gallaway, 646 Hudson
Pfeifer Bros., 473 Greenwich
Rendle, Arthur E. (The Paradigm), 18 W
Rosenberg, Adolph, 512 E 17th 34th
Saron, David, 2164 Madison av
Schwoerer, A. & Sons, 530 E 80th
Smith, Moritz, 1045 3d av
Smith & Dorsett Co., 403 E 47th
Steckler & Feder, 246 Ave B
Taylor, E. R. Co., 160 5th av
United Cornice & Skylight Works, 153
**Vincent, Wm. E. D., 133 E 118th** Lewis
Vogt, Geo. J., 315 E 60th
Westergren, Moritz F., 213 E 144th

**(End of New York City)**

NIAGARA FALLS—Machwirth Bros. Co.
POUGHKEEPSIE—Aldrich, Elbert, 363 Mill
ROCHESTER—Goggin & Knowles, 50 Franklin
Haskins & Co., 397 Main E
Schoedinger, F. O.
National Skylight & Ventilating Co. (Ventilated & Puttyless)
Siddons, John Co., 65 N Water
SYRACUSE—Bradford & Deruchie, 439 E Water
Cashman & McCarthy, 372 W Fayette
Curran, James
Talbott, Thos. & Son, 240 W Water
TROY—Loeble, Wm., 422 River
Manogue, Edw. Co., ft Grand
UTICA—Metal Roofing & Cornice Co., 71 Main
YONKERS—Fitzgerald, David, 202 New Main
McVicar, Thos., 30 Dock
McVicar, Wm. H., 83 Woodworth av

## NORTH DAKOTA.

GRAND FORKS—Barnes & Nuss Co.

## OHIO.

AKRON—Burt Mfg. Co., 32 Main
Kasch Roofing Co.
CAMBRIDGE—Cambridge Roofing Co.
CANTON—**BERGER MFG. CO., THE.** (See adv. index, end of book)
**CANTON MFG. CO. (See adv. index,** Eller Mfg. Co. end of book)
Kannberg Roofing & Ceiling Co.
CINCINNATI—Beckman, Wm., 1543 Race
Blum, Albert, 2837 Woodburn av
Brandis, Wm., 3109 Reading rd
**EDWARDS MFG. CO., 545-565 Eg**gleston av. (See adv. index, end of
Emmers Cornice Co., 1007 B'way book)
Freund, Jacob Roofing Co., Mitchell av & B. & O. S. W. R'y
Greiwe, Edw. & Bro., 1128 B'way
Porter Iron Roofing & Corrugating Co., 522 Culvert
Queen City Exhaust & Blow Pipe Co., 1732 Central av
Scott Roofing & Mfg. Co., 408 Culvert
Standard Roofing Co., 1662 Providence
Weissenberger, Geo. G., 4004 Spring Grove
Witt Cornice Co., 2118 Winchell av
Witt & Brown, 215 W 3d
CLEVELAND—Callaghan, J. & Sons, 1119 Superior, N E
Cleveland Metal Roofing & Ceiling Co., 3105 Detroit av, N W
Garry Iron & Steel Co., 1270 E 53d
Mannen & Esterly Co., 2241 St. Clair av
Ohio Roofing Co., 1477 Euclid av
Ortli, Chas. F., 2510 Barber av, S W
Riester & Thesmacher Co., 1512 W 25th,
Rudolph & Son Co. N W
Stran, C. W., 1288 E 9th
COLUMBUS—Schilling, John N., 193 N Grant
Schoedinger, F. O. av

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DAYTON—Bretch, A., 126 E 5th
Buvinger, G. W. & E. E., 323 E 3d
Kenney, J. R., 251 S Wayne av
Wuichet, Chas. & Co., 14 S Canal
FINDLAY—Gates, N. S.
Hoffman & Bryan
HAMILTON—Schlosser, Jacob & Son
LORAIN—Weimer Co.
MANSFIELD—Martin, C. E. & Bro.
SALEM—**MULLINS, W. H. CO. (Steel).** 341 Franklin. (See adv. index, end of book)
SPRINGFIELD—Peet & Schuster Co., 28 S Fountain av
TOLEDO—Gerken, J. D. & Co., 1309 Wash'n
Hofer, Fred'k, Jr., ft of Washington
Hofer, G. & Co., 13 S St. Clair
Toledo Cornice & Copper Works
Warnke Bros. Co., 23 Erie
ZANESVILLE—Snyder Roofing Co.

## OREGON.

PORTLAND—Bayer, J. C. Furnace Co., 265 Burkhart & Weaverson, 305 4th Second
Hirschberger, H. H.
Tilton Bros., 105 5th N
Wynkoop, L. W.
Burkhart & Weaverson, 305 4th
Hirschberger, H. H.
Tilton Bros., 105 5th N
Wynkoop, L. W.

## PENNSYLVANIA.

ALTOONA—Hughes, J. C. & Son
BETHLEHEM—Lehigh Valley Cornice Works
CARNEGIE—Rome, Geo. & Co.
CHESTER—Armitage, Geo. L.
ERIE—Murphy Bros.
Patterson & Sterling
GREENSBURG—Overly, W. F.
HARRISBURG—Fager, G. C. & Son
HAZLETON—Barber, J. F. & Co.
LANCASTER—Arnold, Jno. L.
Sheet Metal & Supply Co.
McKEESPORT—Trader, E. N.
PHILADELPHIA—Abronski Bros., 1615 Stiles
American Bar Lock Co. (Bar Lock System), 26th & Penna av
American Metal Cornice W'ks, 1124 Ontario
Blefgen, Henry J., 868 N 4th
Bohem, A. & G., 15th & Federal
Central Cornice Works, 3420 Market
Gara, McGinley & Co., 23 S 17th
Garthaus, H. A., 1847 N 6th
Knodel, Emil, 7 Girard av
Lupton's, David Sons Co., Allegheny av & Tulip
Lyster Sheet Metal Co. ("Lyster's" Ventilated), 1216 Filbert
**McFARLAND, MEADE ROOFING** Co., Woodland & 46th, Phila., Pa.
Metallic Mfg. Co., 232 Spruce
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Philadelphia, Pa.
Rhoads & Maloney, 429 N 3d
Rising Sun Cornice Works, Rising Sun la & 8th
Thorn, J. S. Co., 20th & Allegheny av
PHOENIXVILLE—Caswell & Moore
PITTSBURG—Allegheny Cornice & Skylight Co., North Side
Grauer, Albert & Co., Pittsburg, Pa.
Irwin, Thos. W. Mfg. Co., North Side
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust
Luckhardt, Louis, 85 Sweetbriar
Rasner & Dinger Co., 2d av & Ferry
Scholes Bros., North Side
SCRANTON—Gunster Bros.
SHARON—United Skylight & Cornice Co.
WILKES-BARRE—Carpenter, B. G. & Co.
Connor, Harry & Co.

## RHODE ISLAND.

PROVIDENCE—Brody, Louis, 21 Mill
Brunnckow, C. G. Co., 223 Globe
Burgess, Jas., 254 Prairie av
**CLASON ARCHITECTURAL METAL** Works, 428 Kinsley av. (See adv. index, end of book)
Enterprise Cornice & Skylight Works, 27 Bassett
Harris, Clayton Co., 281 Canal
Lamoureux, F. & Co., 39 Friendship
Providence Arch'l Metal Works, 237 Dyer
Providence Cornice Co., 311 Canal
Rhode Island Cornice Co., 76 Point
Strauss Co., 303 Eddy

## SOUTH CAROLINA.

CHARLESTON—Masters, R. M., 127 King
Morris, R. J., 130 King

## TENNESSEE.

CHATTANOOGA—Goodlake, C. W.
MEMPHIS—Burdick, A. W. & Co.
Eichberg & Lang Mfg. Co.
Fritz, Ed. H.
Wessendorf, Chas.
NASHVILLE—Phillips & Buttorf Mfg. Co.

## TEXAS.

AUSTIN—Arlitt, Max
DALLAS—Burke, W. D., 128 N. Akard
EL PASO—Momsen, Gus. & Co.
FORT WORTH—Attwell Cornice Co.
GALVESTON—Fredericks, Wm. G., 2309 Avenue A
Werner, Geo. P., 1628 Winnie
HOUSTON—Holtkamp, E. E.
Schlom, M. J. & Co.
SAN ANTONIO—Jewett Cornice & Roofing Co.

## UTAH.

SALT LAKE CITY—Bywater & Groo

## VIRGINIA.

NORFOLK — Bohn Roofing & Cornice Co., 11
RICHMOND—Burton, R. Plume
Hackett, R. & Co., 1009 Basin
ROANOKE—Possin, Theo. & Co.

## WASHINGTON.

SEATTLE—Finlay & Robb, 88 Lenora
Seattle Cornice Works, 1130 1st av, S
SPOKANE—Brandt Bros.
Brown Bros. (Inc.), 42 Sprague av
TACOMA—Cizek, A. F. Sheet Metal W'ks Co.
Miller, Edw. Cornice & Roofing Co.
Schock, Thompson & Brooks

## WEST VIRGINIA.

WHEELING—Bayha, D. H.
Caldwell, B. F. & Co.
Nesbitt & Bro.

## WISCONSIN.

EAU CLAIRE—Eau Claire Cornice & Heating Co.
GREEN BAY—Green Bay Cornice & Corrugating Co.
LA CROSSE—Gass, Anthony
Gateway City Steel Tank & Roofing Co.
La Crosse Steel Roofing & Corrugating Co.
MILWAUKEE—Biersach & Niedermeyer, 218
Braun & Millen, 534 Clinton 5th
Consolidated Sheet Metal Works, 661 Hubbard
Feix & Goethel, 818 Winnebago
Green, David D., 215 6th
Hoffmann & Baur, 279 Lake
Jeske, R. & Bro., 119 Reservoir av
Klubertanz, August, 2325 Fon du Lac av
**MILWAUKEE CORRUGATING CO.,** S Bay & Aldrich. (See adv. index, end of book)
Milwaukee Metal Skylight & Galvanized Iron Cornice Works, 139 6th
Roeder, Chas., 1520 7th
Romberger, Jos., 2121 Cherry
Schmitt, F. & Sons Co., 301 4th
Tonnsen, Elibert B., 51 3d
SUPERIOR—Bingham Hardware Co., W. S.
Carlson Bros.
Holmes, A. E. & Bro. Co.

## 10601a— Skylights ("Luxfer Prisms")

**AMERICAN LUXFER PRISM CO.,** Heyworth bldg, Chicago, Ill. (See adv index & branch offices, end of book)

## 10602—Skylights ("More Light" System)

**MORE LIGHT SIDEWALK CON**struction Co., 29th st, Wheeling, W. Va. (See adv. index, end of book)

## 10603—Skylights (Ornamental Iron)

Bickelhaupt, Geo. Skylight Works, 243 W 47th, New York
Hecla Iron Works, 118 N 11th, B'klyn, N. Y.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**WINSLOW BROS. COMPANY, Chicago, Ill.** (See adv. index & branch offices, end of book)

## Skylights (Prism System)

(See Glass, Prismatic)

## 10604—Skylights (Puttyless)

Basman, A. M. Co., Detroit, Mich.
Lupton's, David Sons Co. ("Lupton" Rolled Steel), Allegheny av & Tulip, Phila., Pa.
National Skylight & Ventilator Co., Rochester, N. Y.
National Ventilating Co., 337 E 26th, New York
Schalkenbach & Bodke ("Rex"), Jersey City, N. J.

## 10604a—Skylights (3-Way Prism)

**AMERICAN 3-WAY PRISM CO., 3633** Ashland av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10605—Slag (Concrete & Roofing, Etc.)

Acme Asphalt Roofing Co., 65 Mallory av, Jersey City, N. J.
Birdsboro Slag Co., Birdsboro, Pa.
Duquesne Slag Products Co. (For Concrete, R. R. Ballast, Roofing, Roads, etc.), Pittsburg, Pa.
Federal Improvement Co., The Rookery, Chicago, Ill.
Emanuel & Co., Catasauqua,, Pa.
Hatfield, Geo. E., 314 Flushing av, Brooklyn, New York
Illinois Improvement & Ballast Co., 115 Adams, Chicago, Ill.
Imperial Product Co., 213 St. Paul, Baltimore, Md.
Little, Wm., Conschohocken, Pa., & Swedeland, Pa.
Mount Laurel Slag Co., Reading, Pa.
Perry Iron Co. (Granulated), Erie, Pa.
Robinson, Thos. & Co., Real Estate Trust bldg, Phila., Pa.
Vulcanite Paving Co., Land Title bldg, Phila., Pa.

## 10606— Slate Columns

American Slate Co., Bangor, Pa.
Criterion Slate Co., Hydeville, Vt.
East Bangor Consolidated Slate Co., East Bangor, Pa.

## 10607— Slate Floor Tile

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Hower, J. K., Slatington, Pa.
Hinchey, Patrick, Hydeville, Vt.
Keenan Structural Slate Co., Bangor, Pa.
Minogue Bros. & Quinn, Hydeville, Vt.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Pelican Slate Mfg. Co., Wind Gap & Pottstown, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 255 E 138th, New York
Slatington Slate Co., Slatington, Pa.
Taylor, Wm. M. Mantel & Grate Co., Inc., Columbus, O.
Williams Slate Co., Arvornia, Va.

## 10608— Slate Flour

Atlas Mineral & Machine Co., Lincoln, N. J.

## 10609—Slate for Electrical Purposes

Algonquin Red Slate Co., Worcester, Mass.
Mills, Truthville, N. Y.
Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bonville Bros., Fair Haven, Vt.
Bonville, Edw., Fair Haven, Vt.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick & Flanagan Co., Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Fitzpatrick Bros. & Co., West Castleton, Vt.
Hammon Structural & Roofing Slate Co., Bangor, Pa.
Hower, J. K., Slatington, Pa.
Hydeville Slate Works, Hydeville, Vt.
Jones & Frances, Fair Haven, Vt.
Keenan Structural Clate Co., Bangor, Pa.
McGratty & Sons, 313 Butler, Brooklyn, N. Y.
M'Namara Bros., Fair Haven, Vt.
Merrill Brownville Slate Co., Brownville, Me.
Monson Maine Slate Co., Boston, Mass.
New York Slate Works, 255 E 138th, New York

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North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Penna. Natural Slate Blackboard Co., Slatington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 253 E 138th, New York
Portland-Monson Slate Co., Portland, Me.
Shenton, Thos. H., Slatedale, Pa.
Slatington Slate Co., Slatington, Pa.
Young, A. B., Fair Haven, Vt.

## Slate Grave Covers

(See Burial Cases & Vaults, Slate)

## 10610–Slate (Mausoleum or Catacomb)

Bangor Structural Co., Bangor, Pa.
Columbus Slate Co., Columbus, O.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.

## 10611– Slate Mill Stock.

Allen's, S. Sons, Fair Haven, Vt.
Bangor Crescent Slate Co., Bangor, Pa.
Bonville Bros., Fair Haven, Vt.
Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Genuine Bangor Slate Co., Easton & Bangor, Pa.
Hahn, Granville (Mantel Stock), Walnutport, Pa.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Heimbach Slate Co., Bethlehem, Pa.
Hinchey, Patrick, Hydeville, Vt.
Hower, J. K., Slatington, Pa.
International Slate Co., Slatington, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kirtland, W. H., 1123 B'way, New York
Moyer, J. S. & Co., Bangor, Pa.
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Pittston Slate Mfg. Co., Pittston, Pa., & Slatington, Pa.
Schaeffer, R. F., Bangor, Pa.
Slatington Slate Co., Slatington, Pa.
Stoddard, D. & Son, Bangor, Pa.
Taylor, Wm. M. Mantel & Grate Co. Inc., Columbus, O.
Williams Slate Co., Arvonia, Va.
Woodley Slate Co., East Bangor, Pa.

## 10612–Slate Morgue & Dissecting Slabs

Bangor Structural Slate Co., Bangor, Pa.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.

## 10612a–Slate (Plumbers')

(See Slate Urinal Slabs, Etc.)

## 10613–Slate Radiator Tops

(See Slate Stairs, Treads & Risers)

## 10614–Slate Refrigerator Linings

(See Slate Stair Treads & Risers)

## 10615–Slate Register Frames or Borders

Algonquin Red Slate Co., Worcester, Mass.
Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
Hinchey, Patrick, Hydeville, Vt.
McKenna, David Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Nelson, N. O. Marble Co., Edwardsville, O.
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Penna. Structural Slate Co., Easton, Pa.
Williams Slate Co., Arvonia, Vt.

## 10616 Slate (School)

(See Slates, School; also Black Boards, Slate)

## 10617– Slate Sinks

(See Laundry Tubs, Slate; also Slate Urinal Slabs, Etc.)

## 10618–Slate Stair Treads & Risers

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Hardy Slate Co., Pen Argyl, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Blue Mountain Slate Co., Wind Gap, Pa.
Chicago Slate Co., 411 S Clinton, Chicago, Ill.
Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Excelsior Slate Co., Pen Argyle, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hahn, Granville, Walnutport, Pa.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Hower, J. K., Slatington, Pa.
International Slate Co., Slatington, Pa.
Keenan Bros., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kirtland, W. H., 1123 B'way, New York
Lehigh Structural Steel Mfg. Co., Slatington, Pa.
Meadow Brook Slate Co., Slatington, Pa.
Miller, O. A. Slate Co., Slatington, Pa.
Monarch Blackboard & Structural Slate Mfg. Co., Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Nelson, N. O. Marble Co., Edwardsville, Ill.
North Bangor Slate Co., Bangor, Pa.
New York Slate Works, 255 E 138th, New York
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Penna. Natural Slate Blackboard Co., Slatington, Pa.
Penna. Slate Co., Slatington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 257 E 138th, New York
Phoenix Slate Co., Windgap, Pa.
Portland-Monson Slate Co., Portland, Me.
Schaeffer, R. F., Bangor, Pa.
Scotch Hill Slate Co., Fair Haven, Vt.
Slatington-Bangor Slate Syndicate, Slatington.
Slatington Slate Co., Slatington, Pa.
Southwestern Slate Co., 140 Dearborn, Chicago, Ill.
Taylor, Wm. M. Mantel & Grate Co. Inc., Columbus, O.
Washington Slate Co., Slatington, Pa.
Williams Slate Co., Arvonia, Va.
Woodley Slate Co., East Bangor, Pa.

## 10619–Slate (Structural)

(See Slate, Stair Treads & Risers)

## 10620– Slate Tanks

Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Keenan Structural Slate Co., Bangor, Pa.
Nelson, N. O. Marble Co., Edwardsville, Ill.
New York Slate Works, 255 E 138th, New York

## Slate Tile

(See Slate Floor Tile)

## 10621–Slate Urinal Slabs, Etc.

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Chicago Slate Co., 411 S Clinton, Chicago, Ill.
Cleveland Mantel & Tile Co., 1426 E 30th, Cleveland, O.
Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Fair Haven Marble & Marbleized Co., Fair Haven, Vt.
Hahn, Granville, Walnutport, Pa.
Hall, Chas. E. & Co., E. Cambridge, Mass.
Hamman Structural & Roofing Slate Co., Bangor, Pa.
Hinchey, Patrick, Hydeville, Vt.
Hower, J. K., Slatington, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kimes, J. B. & Co., 1822 Filbert, Phila., Pa.
Kirtland, W. H., 1123 B'way, New York
Lehigh Structural Steel Mfg Co., Slatington, Pa.
Monarch Blackboard & Structural Slate Mfg. Co., Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Moore & Snyder, Slatington, Pa.
Nelson, N. O. Marble Co., Edwardsville, Ill.
New York Slate Works, 255 E 138th, New York
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, & Pottstown, Pa.
Penna. Natural Slate Blackboard Co., Slatington, Pa.
Penna. Slate Co., Slatington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 255 E 138th, New York
Phoenix Slate Co., Windgap, Pa.
Portland-Monson Slate Co., Portland, Me.
Rutland Marble Mfg. Co., Rutland, Vt.
Scotch Hill Slate Co., Fair Haven, Vt.
Slatington-Bangor Slate Syndicate, Slatington.
Slatington Slate Co., Slatington, Pa.
Southwestern Slate Co., 140 Dearborn, Chicago, Ill.
Taylor, Wm. M. Mantel & Grate Co. Inc., Columbus, O.
Troy Bros. & Co., 975 Mass. av, Rox, Boston, Mass.
Unger, Jno. F., Slatington, Pa., & 1006 Mt. Vernon, Phila, Pa.
Williams Slate Co., Arvonia, Va.
Woodley Slate Co., East Bangor, Pa.

## Slate Vault Lining

(See Burial Cases & Vaults, Slate)

## 10622– Slates (School)

American Slate Works, Slatington, Pa.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Gardner, Jno., Portland, Pa.
Meadow Brook Slate Co., Slatington, Pa.
National School Slate Co., Slatington, Pa.
Shenton, Thos. H., Slatedale, Pa.

## 10623– Sledge Mfrs.

American Shovel & Stamping Co., Lorain, O.
Atha Tool Co. (Stone, Coal, Blacksmiths, etc.), Newark, N. J.
Beall Bros. (Inc.), (Blacksmiths' Stone, etc.), Alton, Ill.
Evansville Tool Works (Coal, Blacksmith's, Stone, etc.), Evansville, Ind.
Fulton Tool Works (Miners, etc.), Canal Fulton, Ohio
Hammond, C. & Son, Ogontz, Pa.
Hardscog, Martin Co. (Coal), Pittsburg, Pa.
Heller Bros. Co., Newark, N. J.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Co. (Solid Cast Steel), Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
Lovejoy Tool Works (Double Faced Striking, etc.), 335 W Ohio, Chicago, Ill.
Mack & Co., Rochester, N. Y.
Plumb, Fayette R. (Inc.), Frankfort, Phila, Pa.
Union Drop Forge Co. (Drop Forged), 358 W Indiana, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co. (Blacksmiths', Coal, Stone, etc.), Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.
What Cheer Tool Co. (Cast Steel), What Cheer, Iowa

## 10624– Sleds (Bob)

Abingdon Wagon Co., Abingdon, Ill.
Acme Wagon Co., Emigsville, Pa.
Allen, S. L. & Co. (Flexible Flyer), Denckla bldg, Phila, Pa.
Anderson Co., St. Paul, Minn.
Angle Steel Sled Co., Otsego, Mich.
Barber Mfg. Co. (Oscillating), Ashtabula, O.
Belknap Wagon Co., Grand Rapids, Mich.
Bement's, E. Sons, Lansing, Mich.
Buffalo Sled Co. ("On Wheels"), Buffalo, N. Y.
Columbia Combination Coaster Co., Morgan bldg, Buffalo, N. Y.
Connor, J. W. & Son, Orangeville, Pa.
Cook Pack & Mfg. Co. ("Clarendon"), Holley, N. Y.
Donaldson Bros., Mount Clemens, Mich.

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Howland Mfg. Co., Pontiac, Mich.
Hunt, Helm, Ferris & Co. ("Star", "American" Bobs, Coasters), Harvard, Ill.
Kalamazoo Sled Co., Kalamazoo, Mich.
Keller Mfg. Co., Sauk Center, Minn.
Lansing Wheelbarrow Co., Lansing, Mich.
Lloyd Mfg. Co., Minneapolis, Minn.
Minneapolis Plow Works, Minneapolis, Minn.
Northwestern Mfg. Co., Fort Atkins, Wis.
**RICHARDS - WILCOX MFG. CO.** ("Richards", "Little Giant" Folding & "Flexifold" Sterling), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Standard Harrow Co., Utica, N. Y.
Sterling Machine Works, Sterling, Ill.
Sterling Mfg. Co., Sterling, Ill.
Streich, A. & Bro. Co. (Farm, Log, etc.), Oshkosh, Wis.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Thornburgh Mfg. Co., Bowling Green, O.
Toledo Metal Wheel Co. ("Toledo" Steering Coasters), Toledo, O.
Toledo Plow Co., Toledo, O.
Turner, Joel & Co., Fairfield, Ia.
Wagner Mfg. Co. (Steel), Cedar Falls, Ia.
Western Steel & Iron Works, De Pere, Wis.
Wilkinson Mfg. Co. ("Stowaway" Collapsible), Binghamton, N. Y.

## 10625—Sleeves (Dredging)

Acme Rubber Mfg. Co., Trenton, N. J.
American Metal Hose Co. (Flexible Metallic), Waterbury, Conn.
**AMERICAN SPIRAL PIPE WORKS,** W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., 18 Vesey, New York
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., 91 Chambers, New York
New York Metal Hose Co. (Flexible Metal), 42 B'way, New York
**NEW YORK RUBBER CO., (Rubber),** Reade & Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila.,
Republic Rubber Co., Youngstown, O. Pa.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Walker, Jno. L., Mobile, Ala.

## 10625a—Sleeves (Drill & Punch)

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Keystone Mfg. Co. (Taper), Buffalo, N. Y.

## 10626—Sleeves (Expansion Bolt)

**STAR EXPANSION BOLT CO. ("Star"),** 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 10627— Sleeves (Paper)

(For Electrical Use, Etc.)
Cook, Frank B., 244 W Lake, Chicago, Ill.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Standard Underground Cable Co., Pittsburg, Pa.

## 10628— Sleeves (Pipe)

Dayton Pipe Coupling Co. (Steel, for Pipe Mains, etc.), Dayton, O.
Dresser, S. R. Mfg. Co. (For Repair Work), Bradford, Pa.
Haines Co. (Adjustable), 1933 W Lake, Chicago, Ill.
New Brunswick Iron Works ("Kellogg" Repair Sleeve, for Water Mains), 9 Water, New Brunswick, N. J.
**STURTEVANT, B. F. CO. (Adjustable),** Hyde Park, Mass. (See adv. index & branch offices, end of book)
Waterworks Equipment Co. (Emergency for Water & Gas Mains), 50 Church, New York

## 10629—Sleeves (Plumbago)

McCullough-Dalzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburg, Pa.

## 10630—Sleeves (Pole Repair)

Gherky, Wm. D. ("Voynow"), Heed bldg., Phila., Pa.

## 10631—Sleeves (Trolley Wire Splicing)

Clark Electric & Mfg. Co. ("Clark" Copper), 149 B'way, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Philadelphia Electrical & Mfg. Co., 1228 N 31st, Phila., Pa.
Western Electric Co. (Made from Cold-Drawn Brass or Pure Copper), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 10632—Sleeves (Twist Drill)

Billings & Spencer Co. (Taper), Hartford, Conn.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
**DETROIT TWIST DRILL CO.,** Detroit, Mich. (See adv. index, end of book)
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
New Process Twist Drill Co., Taunton, Mass
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index, end of book)
Union Twist Drill Co., Athol, Mass.

## 10633—Sleeves & Tees for Underground Construction)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
McIntire, C. Co., Newark, N. J.

## 10634— Sleeving (Cotton)

(For Electrical Use, Etc.)
Anchor Webbing Co., Woonsocket, R. I.
Belden Mfg. Co., 2316 S Western av, Chicago,
Dunton, M. W. Co., Providence, R. I. Ill.
Hope Webbing Co., Providence, R. I.
Niedner, Chas. Sons Co., Malden, Mass.
**ROSSENDALE - REDDAWAY BELTing & Hose Co.,** Newark, N. J. (See adv. index, end of book)
Textile Tube Co., Fall River, Mass.

## 10635—Sleighs (Logging)

**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)

## 10636—Slicers (Fruit & Vegetable)

Atkins, E. C. & Co., Indianapolis, Ind.
Catawissa Specialty Mfg. Co. (Vegetable), Catawissa, Pa.
Disston, Henry & Sons, Phila., Pa.
Enterprise Mfg. Co., Phila., Pa.
Goodell Co. (Potato), Antrim, N. H.
Handy Things Co., Ludington, Mich.
Landers, Frary & Clark ("Universal," "French" "Lightning"), New Britain, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Sinclair-Scott Co. (Pineapple), Baltimore, Md.
Streeter, N. R. & Co. (Fruit), Rochester, N. Y.
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
Zastrow, Geo. W. (Pineapple, Power), 1404 Thames, Baltimore, Md.

## 10637— Slicers (Meat)

American Slicing Machine Co., Chicago, Ill.
Anderson Computing Scale Co., Anderson, Ind.
Computing Cheese Cutter Co., Anderson, Ind.
Deer, A. J. Co. ("Deer"), Hornell, N. Y.
Ideal Mfg. Co., Anderson, Ind.
Jennings-Hall-Sperry Co., Wallingford, Conn.
U. S. Slicing Machine Co., 40 Dearborn, Chicago, Ill.

## 10638—Slicks (Carpenters')

Bradley's, G. W. Sons, Westport, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Swan, James Co., Seymour, Conn.
White, L. & I. J. Co., Buffalo, N. Y.

## 10639—Slide Rests for Lathes

Bartlett, Edwin E., 326 A., Boston, Mass.
National Machine Co., Milwaukee, Wis.
Reed, F. E. Co., Worcester, Mass.

## 10640—Slides (Breast Strap)

Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Stearns, E. C. & Co., Syracuse, N. Y.

## 10641— Slides (Desk)

National Lock Co., Rockford, Ill.
Spengler Bros. Co. (Polished Steel, Also Desk Steel Hinge Slides), Rockord, Ill.

## 10642— Slings (Hay)

Goshen Mfg. Co. ("Hercules"), Goshen, Ind.
Hackney Mfg. Co., St. Paul, Minn.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Louden Machinery Co., Fairfield, Ia.
Milwaukee Hay Tool Co., Milwaukee, Wis.
**MYERS, F. E. & BRO. ("Myers" Centre Trip Adjustable, "Utah" Centre Trip Adjustable, "Myers" Double Lock Adjustable & "Myers" Cable Ground Sling), Ashland, O.** (See adv. index & branch offices, end of book)
Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, O.
Ohio Farmers' Hay Tool Co., Canton, O.
Porter, J. E. Co. (Center Grip), Ottawa, Ill.
Ricker Mfg. Co. ("Ricker"), Rochester, N. Y.
Strickler Hay Tool Co. ("Strickler"), Janesville, Wis.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 10642a—Slitters (Cloth & Paper)

**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)

## 10643—Slotters (Paper Box)

**BECK, CHAS. CO., 607 Chestnut,** Phila., Pa. (See adv. index, end of book)

## 10644—Smelters of Spelter

(See also Spelter Manufacturers)
Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Hegeler Bros., Danville, Ill.
Illinois Zinc Co., Peru, Ill.
Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill.

## 10645—Smelters & Refiners

(See also Babbitt Metal; also Refiners. Electrolytic Copper)
Ajax Metal Co., 48 Richmond, Phila., Pa., & Birmingham, Ala.
American Smelting & Refining Co., 9th & Freeman, Cincinnati, O.
American Smelting & Refining Co., 165 B'way, New York
American Zinc Lead & Smelting Co., Caney, Kans.
Balbach Smelting & Refining Co., Newark, N. J.
Baltimore Copper Smelting & Rolling Co., Baltimore, Md.
Baltimore Copper Smelting Rolling Co., Baltimore, Md.
Chicago Metal Reduction Co., 77 Jackson boul, Chicago, Ill.
Columbia Smelting & Refining Works, 366 West, New York
Crescent Phosphorized Metal Co., 2314 Wood, Phila., Pa.
Dee, Thos. J. & Co., 69 Wash'n, Chicago, Ill.
Delaware Metal Refinery, 18th & Washington av, Philadelphia, Pa.
Deutsch, N. & Co., 1303 S Canal, Chicago, Ill.
Duquesne Reduction Co., Pittsburg, Pa.
Eagle Smelting & Refining Works, 734 E 14th, New York
Edna Brass Mfg. Co., 525 Reading rd, Cincinnati, O.
Edna Smelting & Refining Co., 525 Reading rd., Cincinnati, O.

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Electric Smelting & Aluminum Co. (Aluminum, Silicon, Manganese, Alloys), Lockport, N. Y.
Empire Smelting Co., Depew, N. Y.
Elizabethtown Smelting Co., Lyons Farms, N. J.
Fidelity Metal Co., 28 Dobbin, Brooklyn, N. Y.
Garfield Smelting Co. (Copper, Ore, etc.), Salt Lake City, Utah
Goldsmith Bros. Smelting & Refining Co., 42 Madison, Chicago, Ill.
Granby Mining & Smelting Co., St. Louis, Mo.
Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Great Western Smelting & Refining Co., 41st & Wallace, Chicago, Ill.
Higginbotham, Z. F. & Sons (Lead), Fertile, Mo.
Honkamp Bros., 40th, cor. Wentworth, Chicago, Ill.
Illinois Smelting & Refining Co., 410 N Peoria, Chicago, Ill.
Irvington Smelting & Refining Co., Irvington, N. J.
Kahn Bros., 525 E 19th, New York
Kramer, H. & Co., 730 S Canal, Chicago, Ill.
Krebs Pigment & Chemical Co., Newport, Del.
Lanyon Star Smelting Co., Bartlesville, Okla.
Lehman Bros., Hoboken, N. J.
Lelong, L. & Bro., Newark, N. J.
Lipshitz Smelting & Refining Works, Waco, Texas
Lissberger, B. & Co., 742 E 14th, New York
Loraine Smelting & Refining Co., 115 Dearborn, Chicago, Ill.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
McDonald, Jas. & Sons Co., Cincinnati, O.
McHattan Smelting Co., 1500 Wash'n av. Phila., Pa.
Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Michigan Smelting & Refining Co., Detroit, Mich.
Monarch Metal Co., 119 S Lincoln, Chicago, Ill.
Mountain Copper Co., San Francisco, Cal.
Nassau Smelting & Refining Works, 607 W 29th, New York
National Lead Co., 111 B'way, New York
National Metal Smelting & Refining Co., Hoboken, N. J.
National Zinc Co., Bartlesville, Okla.
Noulty Smelting & Refining Co., 2612 Martha, Phila., Pa.
New Jersey Zinc Co., 55 Wall, New York
North American Smelting Co., 9th & Thompson, Chicago, Ill.
Orford Copper Co., 43 Exchange pl, New York
Pearl Smelting & Refining Works, 2507 E Cumberland, Phila., Pa.
Pennsylvania Smelting Co., Carnegie, Pa.
Perth Amboy Smelting & Refining Co., Perth Amboy, N. J.
Peyton Chemical Co., San Francisco, Cal.
Progressive Metal & Refining Co., Milwaukee, Wis.
Raritan Copper Works, Perth Amboy, N. J.
Reeves, Paul S. & Son, 1413 Catherine, Phila., Pa.
Riverside Metal Refining Co. (Inc.), Connellsville, Pa.
Robson Smelting Co., Buffalo, N. Y.
Roessing Bronze Co., Etna, Pa.
Rosenthal's, Jos. Sons, 192 Berks, Phila., Pa.
Selby Smelting & Lead Co., San Francisco, Cal.
Shimer, H. W. & Co., 19th & Wash'n av., Phila., Pa.
Star Refining Co., 50 State, Boston, Mass.
St. Louis Smelting & Refining Co. (Lead, Slag, etc.), St. Louis, Mo.
Tacoma Smelting Co. (Lead, Copper, Gold, etc.), Tacoma, Wash.
Tottenville Copper Co., Tottenville, N. Y.
Trenton Smelting & Refining Co., Trenton, N. J.
Tri-Bullion Smelting & Development Co. (Gold, Silver, Lead, etc.), 2 Rector, New York
United States Metals Refining Co., 42 B'way, New York
United States Reduction Co., 410 S Clinton, Chicago, Ill
United States Smelting, Refining & Mining Co. (Copper, Lead, Matte, etc.), Boston, Mass.
United States Smelting Works, Phila. Pa.
United Zinc & Chemical Co., Kansas City, Mo
Virginia Smelting Co., W Norfolk, Va., & Boston, Mass.
**WALSH'S SONS & CO. (Brass, Copper, Lead, etc.), Harrison, N. J.** (See adv. index, end of book)
White & Bro., 1502 E Montgomery, Phila., Pa.
Williams, E. A. & Son, Jersey City, N. J.
Woodfall Bros., 1105 Fairmount av, Phila, Pa.

## 10646– Smelting Outfits

Way's Pocket Smelter Co. ("Way's"), South Pasadena, Cal.

## 10647–Smelting Plants (Complete Equipment)

**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Mashek Engineering Co., 90 West, New York
Mill & Smelter Engineering Co., 114 Liberty, New York
Power & Mining Machinery Co., Cudahy, Wis.
Traylor Engineering Co. (Copper, Silver & Lead), Allentown, Pa.

## 10648–Smoke Consumers

(See Fuel Economizers; also Furnaces, Smokeless)

## 10649–Smoke House Builders

Columbian Steel Tank Co., Kansas City, Mo.
Evers Iron Works ("Evers's & Hilderbrandt's" Patents), Cleveland, O.
Gehret Bros. (Doors, Meat Trees, Patent Floors, etc.), Bridgeport, Pa.

## 10650–Smoke Jacks (Round House)

Asbestos, Shingle, Slate & Sheathing Co. ("Century," Asbestos Lumber), Ambler, Pa.
Dickinson, Paul (Inc.) (Cast Iron), Security bldg, Chicago, Ill.
Franklin Mfg. Co., Franklin, Pa.
Hodgkine & Dayton, St. Louis, Mo.
Illinois Malleable Iron Co. ("Bruyn" Cast Iron Automatic Swinging), 1801 Diversey boul, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO. ("J-M** Vulcabestos"), 100 William, New York. (See adv. index & branch offices, end of book)
Mann-McCann Co. ("Bruyn," "Mann"), Fisher bldg, Chicago, Ill.

## 10651–Smoke Stack Lining

**JOHNS, H. W.-MANVILLE CO. ("J-M** Vulcabestos"), 100 William, New York. (See adv. index & branch offices, end of book)

## 10652–Smoke Stacks (Steel)

(See also Chimneys, Various Kinds; also Boilers, Tubular)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.), 39 Cortlandt, New York
Allen, Wm. & Sons Co., Worcester, Mass.
Aurora Boiler Works (Inc.) (Self-Supporting Steel), Aurora, Ill.
Bartlett, Hayward & Co., Baltimore, Md.
Biggs Boiler Works Co., Akron, O.
Bridgeport Boiler Works, Bridgeport, Conn.
Bryan, E. A. Co. (Steel), 119 Monroe, Chicago, Ill. Works, Harvey, Ill.
Cambridge Iron Works, Cambridge, Mass.
**CANTON BOILER & ENGINEERING** Co. (Self Supporting), Canton, O. (See adv. index, end of book)
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Casey-Hedges Co. (Self Supporting, Guyed, etc.), Chattanooga, Tenn.
Central Boiler Works, Detroit, Mich.
Chicago Bridge & Iron Works (Horace E. Horton, Prop.) (Self-Supporting), W 105th & Throop, Chicago, Ill.
Coatesville Boiler Works, Coatesville, Pa.
Columbian Steel Tank Co., Kansas City, Mo.
Columbus Steam Boiler & Heater Co., Columbus, O.
Connellsville Iron Works, Connellsville, Pa.
Connelly, D. Boiler Co. (Self Supporting), Cleveland, O.
Connery & Co., 9th & Master, Phila., Pa.
Cooper, C. & G. Co., Mount Vernon, O.
Crooks-Kries & Co., Baltimore, Md.
**DES MOINES BRIDGE & IRON CO.** (Self-Supporting), 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**Detroit Ship Building Co.** (Brass Dep't), Detroit, Mich
Dover Boiler Works, Dover, N. J.
Drake-Williams-Mount Co., Omaha, Neb.
Dubois Iron Works, Dubois, Pa.
Duff Patents Co., Inc., Frick Bldg., Pittsburg, Pa.
East Jersey Pipe Co., Paterson, N. J.
Erie City Iron Works, Erie, Pa.
Ervien, Chas. W. & Co., Verango & G, Phila., Pa.
Fargo Foundry Co., Fargo, N. D.
Folsom, C. G. Mfg. Co., South Bend, Ind.
Franklin Boiler Works, Green Island, Troy, N.Y.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Hamler Boiler & Tank Co. (Self-Supporting), 39th & Halsted, Chicago, Ill.
**HAMMOND IRON WORKS, Warren,** O. (See adv. index & branch offices, end of book)
Harlan & Hollingsworth Corp., Wilmington, Del.
Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
Hartley Boiler Works (Self-Supporting), Montgomery, Ala.
Heggie, James G., Joliet, Ill.
Heil Co. (Self Supporting), Milwaukee, Wis.
Heilman Boiler Works, Allentown, Pa.
Hendrick Mfg. Co., Carbondale, Pa.
Honhorst, Joseph Co., Cincinnati, O.
Jarvis Engine & Machine Works, Lansing, Mich.
Keeler, E. Co. (Self-Supporting), Williamsport, Pa.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
King Bridge Co., Cleveland, O.
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Lacy Mfg. Co., Los Angeles, Cal.
Lappan, Jas. Mfg. Co., Pittsburg, Pa.
Leetonia Boiler Co., Leetonia, O.
Leslie, Elliott & Co., Paterson, N. J.
Lewis, H. B., 45 Jos. Campau, Detroit, Mich.
Lindsay, W. W. & Co., 1502 Market, Phila., Pa.
Littleford Bros. (Steel), Cincinnati, O.
Logan Iron Works, 42 Commercial, Brooklyn, N. Y.
Long, Walter Mfg. Co., Pittsburg, Pa.
Lyons Boiler & Iron Works, De Pere, Wis.
McAllister-Byrne Const. Co., Girard, O.
**McCOY, HENRY J. CO. 65-67 Dey,** New York. (See adv. index, end of book)
McDermott Engineering Co., Allentown, Pa.
McNaull Boiler Mfg. Co., Toledo, O.
McNeil, Jas. & Bro. Co., Pittsburg, Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Meehan Boiler & Construction Co. (Self-Supporting), Lowellville, O.
Meyers, Otto C. & Co., 30 Franklin, Brooklyn, N. Y.
**MICHELMANN STEEL CONSTRUC**tion Co. (Self-Supporting), Quincy, Ill. (See adv. index, end of book)
Milwaukee Boiler Co., Milwaukee, Wis.
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Munroe, R. & Sons Mfg. Co., Pittsburg, Pa.
Murray Iron Works Co., Burlington, Ia.
Muskegon Boiler Works (Self-Supporting), Muskegon, Mich.
National Boiler Works, 564 Fulton, Chicago, Ill.
National Boiler & Sheet Iron Works, Indianapolis, Ind.
Newbold, R. S. & Son Co., Norristown, Pa.
New England Iron Works Co., Sumner, B & Fargo, Boston, Mass.
Novelty Steam Boiler Works (Triplett & Jennings, Prop's) (Self-Supporting), 917 S Howard, Baltimore, Md.
O'Brien, John Boiler Works Co. (Self-Supporting), St. Louis, Mo.
Oil City Boiler Works (Inc.), Oil City, Pa., & 39 Cortlandt, New York
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Oliman Boiler Works, 38 Illinois, Buffalo, N. Y.
Osborn Machine Co., Du Bois, Pa.
Pennsylvania Boiler Works, Erie, Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

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Pfeiffer, Chris. Boiler Co., 223 W Michigan, Chicago, Ill.
Phoenix Iron Works Co., Meadville, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Porter Foundry & Machine Co., Pittsburg, Pa.
Portland Co., Portland, Me.
**REEVES BROS. CO. (Self-Supporting)**, Alliance, O. (See adv. index, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
Robb Engineering Co. (Ltd.), South Framingham, Mass.
Roberts Iron Works Co., Cambridgeport, Mass.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Rockford Boiler & Steel Co., Rockford, Ill.
**RUGGLES-COLES ENGINEERING CO.**, 48 Church, New York. (See adv. index & branch offices, end of book)
St. Paul Boiler Mfg. Co., St. Paul, Minn.
**SCAIFE, WM. B. & SONS CO., 221 1st av**, Pittsburg, Pa. (See adv. index, end of book)
Sharkey & Peck, 2433 W 18th, Chicago, Ill.
Sharon Boiler Works, Sharon, Pa.
Skinner Ship Building & Dry Dock Co., Baltimore, Md.
Smith, Samuel & Son Co., Paterson, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Sotter Bros., Pottstown, Pa.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Springfield Boiler & Mfg. Co., Springfield, Ill.
Standard Boiler Works, Seattle, Wash.
Standard Boiler & Plate Iron Co., Niles, O.
**STRUTHERS-WELLS CO. (Self-Supporting)**, Warren, Pa. (See adv. index, end of book)
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Tippett & Wood, Phillipsburg, N. J.
Tofte Boiler & Sheet Iron Works, Houston, Texas
Treadwell Construction Co., Midland, Pa.
Tulsa Boiler & Sheet Iron Works, Tulsa, Okla.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York
Union Boiler & Mfg. Co., Lebanon, Pa.
Union Iron Works, Erie, Pa.
United Boiler Heating & Foundry Co., Hammond, Ind.
Vance Boiler Works, Geneva, N. Y.
Variety Iron & Steel Works Co., Cleveland, O.
Virginia Bridge & Iron Co., Roanoke, Va.
Vogt, Henry Machine Co., Louisville, Ky.
Walsh & Weidner Boiler Co., Chattanooga, Tenn.
Warren Construction Co., Warren, O.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.
York Ice Machine Mfg. Co., York, Pa.

## 10652a—"Smooth-On" Cements & Compounds

**SMOOTH-ON MFG. CO., 572 Communipaw av**, Jersey City, N. J. (See adv. index & branch offices, end of book)

## 10653—Snaps (Harness, Etc.)

(See also Hooks, Snap)

American Snap Co. ("Bang-Up" & "Cant-Un-Hook"), Ashtabula, O.
Ashtabula Mfg. Co., Ashtabula, O.
Covert Mfg. Co. ("Yankee"), Troy, N. Y.
Covert Mfg. Co. ("Yankee", "Trojan", "King", "Queen"), Troy, N. Y.
Covert's Saddlery Works ("Crown", "Triumph"), Interlaken, N. Y.
Draper & Hall Co. ("Hayes" Lock), Middletown, Conn.
East Bangor Mfg. Co. ("J. P."), East Bangor, Pa.
Eberhard Mfg. Co., Cleveland, O.
Fitch, W. & E. T. Co., New Haven, Conn.
Hayward, S. F. & Co. (Fire Dept.), 39 Park pl., New York
Imperial Bit & Snap Co. ("Imperial"), Racine, Wis.
Jenkinson, R. C. & Co., Newark, N. J.
Judd, R. D., New Britain, Conn.
Mosher & Hogarty, Unionville, Conn.
National Safety Snap Co. ("Kingsnap" Spring Steel), Wilmington, O.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
North, O. B. & Co., New Haven, Conn.
North & Judd Mfg. Co. ("Anchor"), New Britain, Conn.
Oneida Community (Ltd.), Oneida, N. Y.
Racine Malleable & Wrought Iron Co. ("Richardt"), Racine, Wis.
Reading Hardware Co., Reading, Pa.
Sargent & Co. ("Sampson," etc.), New Haven, Conn.
Wire Goods Co. (Wire), Worcester, Mass.

## 10654—Snaps (Hitching)

East Bangor Mfg. Co. ("J. P."), East Bangor, Pa.
Owen Mfg. Co., South Bend, Ind.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
North & Judd Mfg. Co. ("Anchor"), New Britain, Conn.

## 10655— Snaps (Rivet)

**CLEVELAND PUNCH & SHEAR** Works Co. (Alloy or Carbon Steel), Cleveland, O. (See adv. index, end of book)

## 10656— Snaps (Swivel)

Covert Mfg. Co. ("Covert", "Yankee"), Troy, N. Y.
Imperial Bit & Snap Co. ("Imperial"), Racine, Wis.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv index, end of book)
North & Judd Mfg. Co. ("Anchor"), New Britain, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

## 10657— Snippers (Bean)

Gowanda Agricultural Works ("Century"), Gowanda, N. Y.

## 10658—Snips (Tinners')

Acme Shear Co. (Tinners' Shears), Bridgeport, Conn.
Ansonia Novelty Co., Ansonia, Conn.
Atlas Shear Co., Bridgeport, Conn.
Bergman Tool Mfg. Co., Buffalo, N. Y.
**BERNZ, OTTO, 21 Ashland av, Newark**, N. J. (See adv. index, end of book)
Berridge Shear Co., Sturgis, Mich.
Bridgeport Hardware Mfg. Co. ("Bull Dog"), Bridgeport, Conn.
Clauss Shear Co. ("Clauss"), Fremont, O.
Clayton Bros., Bristol, Conn.
Compton, W. H. Shear Co. ("Reliance"), Newark, N. J.
Detroit Shear Co. ("Searight" Compound Lever Mechanics, for Soft Steel, Brass, Copper, etc.), Detroit, Mich.
Emrich, Phil ("Emrich"), Cincinnati, O.
Hall, Chas. E. Co. (Drop Forged), Buffalo, N. Y.
Heinisch's, R. Sons Co. ("Vulcan"), Newark, N. J.
International Cutlery Co. ("Star"), Fremont, O.
Kraeutner & Co., Newark, N. J.
National Cutlery Co. (Tinners'), Westmoreland & Boudinot, Phila, Pa.
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
Osborne, C. S. & Co., Harrison, N. J.
Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.
Peck, Stow & Wilcox Co. ("P. S. & W."), Southington, Conn.
Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Phila, Pa.
**ST. LOUIS SALES CO., ("Searight's"** Compound Lever), 1224 Chemical bldg, St. Louis, Mo. (See adv. index, end of book)
**SMITH & HEMENWAY CO. ("Red Devil")**, 150 Chambers, New York. (See adv. index, end of book)
Stortz, Jno. & Son, 210 Vine, Phila, Pa.
Universal Shear Co. ("L'Universal"), 115 Mercer, New York
White, Ira F. & Son Co. (Cast), Bloomfield, N. J.
Wiss, J. & Sons Co., Newark, N. J.

## 10659—Snow Brooms & Sweepers (Street Railway)

(See also Plows, Snow; also Street Railway Sweeping Machines)

Brill, J. G. Co. ("Brill" Standard Snow Sweeper), 62d & Woodland av, Phila., Pa.
Columbia Machine Works & Malleable Iron Co. ("Columbia" Snow Sweeper Brooms), 269 Chestnut, Brooklyn, N. Y.
McGuire-Cummings Mfg. Co. ("McGuire-Cummings" Automatic Sweeper & Loader also Snow Sweepers), 400 N Sangamon, Chicago, Ill.

## Snow Guards

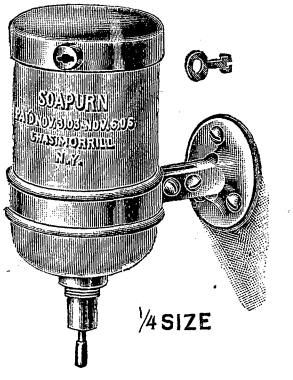
(See Roof Snow Guards)

## 10660—Soap (Automobile Oil)

Cataract Refining & Mfg. Co. ("Cascade"), Buffalo, N. Y.

## 10661—Soap Dispensers (Liquid)

Antiseptol Liquid Soap Co. ("Antiseptol"), 30 S Clinton, Chicago, Ill.




**MORRILL, CHAS. ("Soapurn" for All Purposes)**, 277 Broadway, New York. (See adv. index, end of book)
West Disinfecting Co., 2 E. 42d, New York

## 10662— Soap (Harness)

Frazer Lubricator Co. ("Frazer," White Castile, etc.), 111 W Michigan, Chicago, Ill.
Gordon, R. W. & Co., McKeesport, Pa.
Hollingshead, R. M. Co. ("Hollingshead" Castile Cream), Camden, N. J.
Miller, Frank Co., 349 W 26th, New York
Moore, Chas. Oil Co. (For Jobbing Trade Only), Cincinnati, O.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York
Stevens Grease & Oil Co. (For Jobbing Trade Only), Cleveland, O.

## 10663—Soap (Linseed Oil)

Advance Grease & Chemical Co. ("Advance"), Jackson, Mich.
American Linseed Co., 100 William, New York
Climax Refining Co., Cleveland, O.
Great Western Oil Co., Cleveland, O.
Modoc Co. ("Modoc" Soft Soap), Fernwood, Pa.
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

## 10664— Soap (Liquid)

Walton, F. S. Co. ("Victoria"), Orthodox & Del. river, Phila, Pa.

## 10665— Soapstone

Alberene Stone Co., 223 E 23d, New York
Arkansas Soapstone & Refractories Co., Little Rock, Ark.
Cohutta Talc Co. (Brick, Foundry Facings, Crayons, Pencils, etc.), Dalton, Ga.
**DOGGETT, STANLEY (Brick, Foundry Facings, etc.)**, 101 Beekman, New York. (See adv. index, end of book)
Dunkel, S. P. & Son, Baltimore, Md.
Maryland Soapstone Co. (Hearth Linings, etc.), Baltimore, Md.
**OSBORN MFG. CO., 5401 Hamilton av**, N E, Cleveland, O. (See adv. index, end of book)
Phoenix Soapstone Co., 116 Nassau, New York
**SCHULE, F. H. CO., 114 Liberty**, New York. (See adv. index, end of book)
Troy Bros. & Co., 975 Mass. av, Rox, Boston, Mass.
Union Soapstone Co., 14 Marshall, Boston, Mass.
Virginia Soapstone Co. (Kitchen Sinks, Laundry Tubs, Slabs, Hearths, etc.), Schuyler, Va.

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## 10666—Soapstone for Electrical Work

Alberene Stone Co., 223 E 23d, New York
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Maryland Soapstone Co. (Slabs), Baltimore, Md.
National Soapstone Co. Shipman, Va., & 385 1st av, New York
Old Dominion Soapstone Corp., Esmont, Va.
Phoenix Soapstone Co., 116 Nassau, New York
Williams & Co., Nashua, N. H.
Walls, Owen & Stambach Co., 11th & Ridge av, Phila., Pa.

## 10667—Soapstone for Lubricants

(See Soapstone, Powdered or Dust)

## 10668—Soapstone (Ground)

(See Soapstone, Powdered or Dust)

## 10669—Soapstone (Powdered or Dust)

American Soapstone Finish Co., Chester Depot, Vt.
Atlas Mineral & Machine Co., Lincoln, N. J.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
McIlvaine Bros., 1500 Hamilton, Phila., Pa.
Maryland Soapstone Co., Baltimore, Md.
**RUTLAND FIRE CLAY CO., Rutland,** Vt. (See adv. index & branch offices, end of book)
Salomon, L. A. & Bro. (Powdered), 216 Pearl, New York

## 10670—Socket Bushing (Rubber)

Diamond Rubber Co., Akron, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade** & Church, New York. (See adv. index, end of book)
Republic Rubber Co., Youngstown, O.

## 10671— Socket Linings

**CONTINENTAL FIBRE CO. (Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Fibre), Wilmington, Del. Works, Marshaltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO.** (Fibre), Elsmere, Del. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**PARKER, J. C. & SONS FIBRE CO.** (Vulcanized Fibre), New Castle, Del. (See adv. index, end of book)

## 10672—Sockets ("Andrews")

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)

## 10673—Sockets (Awning)

Wilcox, Crittenden & Co., Middletown, Conn.

## 10674—Sockets (Candelabra, Fibre)

**MORSE, FRANK W., 516 Atlantic** av, Boston, Mass. (See adv. index, end of book)

## 10674a—Sockets (Curtain Pole & Rod)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 10675— Sockets (Drill)

Acme Drill Co., Newark, N. J.
American Specialty Co. ("Use-Em-Up"), Monadnock blk., Chicago, Ill.
Billings & Spencer Co., Hartford, Conn.
Celfor Tool Co. ("Celfor"), Buchanan, Mich.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**CORONA MFG. & SUPPLY CO., 311** Atlantic av, Boston, Mass. (See adv. index, end of book)
**DETROIT TWIST DRILL CO., De**troit, Mich. (See adv. index, end of book)
Keystone Mfg. Co., 41 Chandler, Buffalo, N. Y.
Lancaster Machine & Knife Works, Lancaster, Pa.
Lang, G. R. Co. ("Lang's" Stayin), Meadville, Pa.
**MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)**
National Twist Drill & Tool Co. ("National," Taper Shank Sockets & Sleeves), Detroit, Mich.
New Process Twist Drill Co., Taunton, Mass.
Oneida Community (Ltd.), Oneida, N. Y.
Sager Drill Socket Co. ("Sager" Automatic Grip), West Albany, N. Y.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Twist Drill Co. (Steel Blank End, Morse Taper & Fitted), Athol, Mass.

## 10676—Sockets (Electric Lamp)

Arrow Electric Co., Hartford, Conn.
Benjamin Electric Mfg. Co. (Rotating Counterbalanced), 120 S Sangamon, Chicago, Ill.
Bryant Electric Co., Bridgeport, Conn.
**CUTLER-HAMMER MFG. CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
Federal Electric Co., Lake & Desplaines, Chicago, Ill.
Household Electric Appliance Co. ("Dim-a-Lite"), Real Estate Trust Bldg., Phila., Pa.
**GENERAL ELECTRIC CO. ("Security" Snap),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO. ("J-M"** Weatherproof Keyless Moulded), 100 William, New York. (See adv. index & branch offices, end of book)
Paiste, H. T. & Co., 32d & Arch, Phila., Pa.
**Pass & Seymour ("P. & S." Weatherproof), Solvay, N. Y.**
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Sears, Henry D. ("Weber"), 131 State, Boston
Tea Tray Co., Newark, N. J.
**WESTINGHOUSE LAMP CO., Bloomfield, N. J.**
Yost Electric Mfg. Co., Toledo, O.

## 10677—Sockets (Flag Pole)

Durkee, C. D. & Co., 3 South, New York
Marine Hardware Co., Peabody, Mass.
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Turner Brass Works, Sycamore, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

## 10677a—Sockets (for Paragon Shanks)

**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 10678—Sockets (for Perfect Double Long Shanks)

**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 10679— Sockets (Grip)

**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 10680—Sockets (Incandescent Lamp)

(See also Sockets, Electric Lamp)

Brunt, G. F. Porcelain Works (Regulating), East Liverpool, O.
Burdett-Rowntree Mfg. Co. (Ball Socket), 515 Lafflin, Chicago, Ill.
Crouse-Hinds Electric Co. ("Norbett" Waterproof), Syracuse, N. Y.
**CUTLER-HAMMER MFG. CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
Electric Supply Co. ("Hawkeye"), Sioux City,
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gilmore Electric Co., South Boston, Mass.
Hubbell, Harvey (Pendant Chain Pull), Bridgeport, Conn.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
**Perkins Electric Switch Mfg. Co., Bridgeport,** Conn.
Peru Electric Co., Peru, Ind.
**Pringle, W. T. ("Ries" Regulating), 112 N 12th, Phila., Pa.**
**Yost Electric Mfg. Co., Toledo, O.**

## 10680a—Sockets (Ladder)

**ARCADE MFG. CO. (Iron), Freeport,** Ill. (See adv. index, end of book)

## 10681— Sockets (Lathe)

**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)

## 10682—Sockets (Miniature Lamp)

Bryant Electric Co., Bridgeport, Conn.
Dennison, L. S. Co., Warren, O.
Electric Porcelain Mfg. Co., Baltimore, Md.
Federal Electric Co., 124 W Lake, Chicago, Ill.
Franco-American Electric Novelty Co., 111 Chambers, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
McCandless, H. W. & Co., 69 Park pl, New York
Mitchell-Vance Co., 507 W 24th, New York

## 10682a—Sockets ("Morse" Taper)

**MORSE TWIST DRILL & MACHINE** Co. (For Oil Drills & Socket Keys), New Bedford, Mass. (See adv. index, end of book)

## 10683—Sockets (Oil Feeding)

**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)

## 10684—Sockets (Porcelain)

**CUTLER-HAMMER MFG. CO., Mil**waukee, Wis. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 10685—Sockets (Pump Rod)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
National Tube Co., Pittsburg, Pa.

## 10686—Sockets (Regulating)

Knapp Mfg. Co., 20 Warren, New York
Pringle Electrical Mfg. Co. ("Ries"), 1906 N 6th, Phila., Pa.
Wirt, Chas. & Co. ("Dim-a-lite"), 4901 Stenton av, Phila., Pa.

## 10686a—Sockets (Rod)

**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

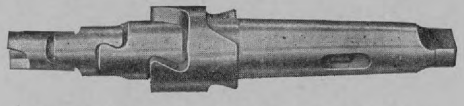
## 10687—Sockets (Special)

Benjamin Electric Mfg. Co. (Twin or Double Socket), 128 S Sangamon, Chicago, Ill.
Burdett-Rowntree Mfg. Co. ("Ball Socket"), Chicago, Ill.
**CUTLER-HAMMER MFG. CO. (Push Button), Milwaukee, Wis. (See adv. index, end of book)**
D'Olier Shade Co., 119 S 11th, Phila., Pa.
Federal Electric Co., 124 W Lake, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady,** N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Hubbell, Harvey (Inc.) ("Hubbard," Pendant Chain Pull), Bridgeport, Conn.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 10688—Sockets (Standard)

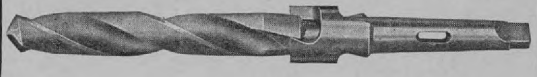
Arrow Electric Co., Hartford, Conn.
Bryant Electric Co. ("New Wrinkle"), Bridgeport, Conn.
Paiste, H. T. Co. ("Holoshade"), 32d & Arch, Phila., Pa.
Pass & Seymour, Solvay, N. Y.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.

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Designed to drive drills, end mills, etc., from 1-2 inch to 3 inches in diameter

No Broken Tangs



"Corona" socket engaged with standard twist drill. A strong drive

# "CORONA" SOCKETS

**Drive from the flute of the drill and take the strain from the tangs**

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## CORONA MFG. & SUPPLY CO.

**311 Atlantic Ave., Boston, Mass.**



"Corona" socket engaged with end mills, reamers and other tools

No Worn Sockets



"Corona" Involute socket engaged with drill, from twisted form of steel

**WE ALSO MAKE CORONA FLEXIBLE METALLIC HOSE**

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Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Yost Electric Mfg. Co., Toledo, O.

## 10689—Sockets (Sucker Rod)

Masseth Packer & Machine Works ("M. & B."), Butler, Pa.

## 10690—Sockets (Waterproof)

Arrow Electric Co., Hartford, Conn.
Benjamin Electric Mfg. Co. ("Benco"), 120 S Sangamon, Chicago, Ill.
Bryant Electric Co., Bridgeport, Conn.
Connecticut Electric Mfg. Co., Bantam, Conn
Crouse-Hinds Co. ("Norbitt" Porcelain), Syracuse, N. Y.
Dickinson Mfg. Co. (Mica), Springfield, Mass.
Federal Electric Co., 124 W Lake, Chicago, Ill.
Freeman, E. H. Electric Co., Trenton, N. J.
**GENERAL ELECTRIC CO., Schenectady**, N. Y. (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO.** (Moulded Mica), 100 William, New York. (See adv. index & branch offices, end of book)
Knowles, C. S., Boston, Mass.
Mechanical & Electrical Mfg. Co., 2227 Prairie av, Chicago, Ill.
Newgard, Henry & Co., 953 Wash. boul., Chicago, Ill.
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Pass & Seymour, Solvay, N. Y.
Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
Siemon Hard Rubber Corp., Bridgeport, Conn.
Stanley & Patterson ("Newcode"), 23 Murray, New York
Trumbull Electric Mfg. Co., Plainville, Conn.

## 10691—Sockets (Weatherproof)

(See Sockets, Waterproof)

## 10692—Sockets (Wire Rope)

**AMERICAN STEEL & WIRE CO.**, Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BROEDERICK & BASCOM ROPE** Co., 809 N Main, St. Louis, Mo., (See adv. index & branch offices, end of book)
Chicago Steel Foundry Co. ("Chicago," Crucible Cast Steel), Chicago, Ill.
Durable Wire Rope Co. (Self Locking), 28 Atlantic av, Boston, Mass.
Harris, Wm. & Son Co., N S, Pittsburg, Pa.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
**LESCHEN, A. & SONS ROPE CO.**, 920 N 1st. St. Louis, Mo. (See adv. index & branch offices, end of book)
**ROEBLING'S, JNO. A. SONS CO., Main** Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
**TERRY & TENCH CO., Grand Central** Terminal, New York. (See adv. index, Trow & Holden, Barre, Vt. end of book)
**UNION ELEVATOR & MACHINE CO.**, 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co., Middletown, Conn.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 10693— Soda Ash

American Chemical Co., Cincinnati, O.
Butterworth-Judson Co., Newark, N. J.
Clark, Fred. G. Co. (For Wholesale Trade Only), Cleveland, O.
Columbia Chemical Co., Barberton, O.
Grant, J. C. Chemical Co., East St. Louis, Ill.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Heil, Henry Chemical Co. (Imported), St. Louis, Mo.
Kansas Chemical Mfg. Co., Hutchinson, Kans.
Mathieson Alkali Works ("Eagle" & "Thistle" Brand), Providence, R. I. Works, Saltville, Va.
Michigan Alkali Co., Wyandotte, Mich.
Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila. Pa.
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
Tennant Sons & Co. (Importers), 76 William, New York
Wing & Evans (Inc.) (Selling Agents). 22 William, New York

## 10694—Soda (Bi-Carbonate)

Church & Dwight Co. ("Zenith," Anti-Sap Stain), 63 Wall, New York

## 10695—Soda (Bichromate & Fluoride)

General Chemical Co., 25 Broad, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.

## 10696—Soda (Bisulphate)

General Chemical Co. (Also Liquid Bisulphate), 25 Broad, New York

## 10697—Soda (Trisodium Phosphate)

General Chemical Co., 25 Broad, New York

## 10698— Sodium

Bower, Hy Chemical Co., 29th & Gray's Ferry Rd, Phila, Pa.
Roessler & Hasslacher Chemical Co. (Cyanide of Sodium), 100 William, New York
Sholes, Chas. E. Co. (Acetate, Bisulphite, Phosphate, Sulphate, Silicate, etc.), 164 Front, New York
Siemen's & Halske (Sodium Hypochlorite for Bleaching Purposes), 50 Church, New York
United Zinc & Chemical Co. (Sulphides, etc.), Argentine, Kans.

## 10699— Soduxite

American Chemical Co., Cincinnati, O.

## 10699a— Soft Soap

Masek, C. Glue Co., Cleveland, O.

## 10700—Softeners (Cotton)

Zurn, O. F. Co. (Turkish Softener, Resolvent Compound), Broad & Lehigh, Phila., Pa.

## 10700a—Soil Pipe Closers

**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)

## Soil Pipe & Fittings

(See Cast Iron Soil Pipe & Fittings)

## 10701—Solder (Aluminum)

Aluminum Solder & Refining Co. ("Aluminite"), Oswego, N. Y.
Clum & Atkinson, Rochester, N. Y.
Hartmann Aluminum Solder Co., 134 W 49th, New York
Janney, Steinmetz & Co. ("Richards"), Phila., Pa.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
Kroenert Smelting & Refining Co., Pittsburg, Pa.
Kemp, W. H. Co., 165 Spring, New York
Reinhold Noflux Aluminum Solder Co., Newark, N. J.
Shimer, H. M. & Co., 19th & Wash'n, Phila., Pa.
Thwing, C. B., 445 N 5th, Phila. Pa.
U. S. Reduction Co., 410 S Clinton, Chicago, Ill.

## 10702—Solder (Brass Spelter)

Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York

## 10703— Solder (Brazing)

Shimer, H. M. & Co. (Golden Rod), 9th & Wash'n av, Phila., Pa.

## 10704—Solder (Gold & Silver)

Benson, H. H. & F. S. (Silver Only), Glen Ridge, N. J.
Hagstotz, T. B. & Son, 709 Sanson, Phila, Pa.
**HUNGERFORD, U. T. BRASS & COP**per Co. (Silver Only), 497 Pearl, New York.
Linton & Co. (Sheet or Wire), Providence, R. I.
Ney, J. M. Co. (Silver, Gold, Brazing, etc.), Hartford, Conn.
**UNITED WIRE & SUPPLY CO. (In** Wire & Sheets), 109 Summer, Providence, R. I. (See adv. index, end of book)

## 10705— Solder Mfrs.

(See also Soldering Paste, Salts & Stick)

American Metal Co., 52 B'way, New York
American Smelting & Refining Co., Cincinnati, Ohio
Allen, L. B. Co. (Self Fluxing), 1123 Columbus av, Chicago, Ill.
**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
Blatchford, E. W. Co., 230 N Clinton, Chicago,
Brady Brass Co., Jersey City, N. J. Ill.
Brighton White Metal Co., New Brighton, Pa.
Butter, Samuel & Co., 508 Atlantic av, Boston, Mass.
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Chadwick-Boston Lead Co. (Bar, Block, Wire, Plumbers', Tinman's & Came or Glaziers'), Boston, Mass.
Chicago Solder Co. (Auto-Tipping Triangular Solid Wire, Round & Ribbon Bar), 218 N Clinton, Chicago, Ill.
Clum & Atkinson, Rochester, N. Y.
Columbia Smelting & Refining Works 366 West, New York
Colwell Lead Co., 109 Lafayette, New York
Delaware Metal Refinery, 18th c Wash'n av, Phila, Pa.
Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
Eagle Smelting & Refining Works (Wire Segment, Bar, Drop & Caffing Triangle, etc.), 738 E 14th, New York
Empire Metal Co., Syracuse, N. Y.
Erie White Metal Co., Erie, Pa.
Eureka Tempered Copper Works, North East, Pa.
Farrell, Edward P. (Soft), 1412 Philpot, Baltimore, Md.
Finn, John Metal Works, Seattle, Wash.
Graham, Jas. & Co., New Haven, Conn.
Great Western Smelting & Refining Co., 41st & Wallace, Chicago, Ill.
Hendricks Bros. (Plumbers & Brazers), 49 Cliff, New York
Hess & Son ("Tinol" Sheet & Wire or Hollow), 1227 Filbert, Phila., Pa.
Hiertz, Theo. Metal Co., St. Louis, Mo.
**HUNGERFORD, U. T. BRASS & COP**per Co. (Bar, Tri-Angular & Capping Wire & Segments), 497 Pearl, New York
Illinois Smelting & Refining Co., 410 N Peoria, Chicago, Ill.
Jacob Bros., Bridgeport, Conn.
Koch & Fox, 22d & Glenwood av, Phila, Pa.
Kramer, H. & Co., 357 S Canal, Chicago, Ill.
Kroenert Smelting & Refining Co., Pittsburg, Pa.
Lang, E. M. Co. ("Neverslip" Wire, Drop & Stick), Portland, Me.
Lausten Lead Works, 940 Pratt, Chicago, Ill.
Lehman Bros., Hoboken, N. J.
Lewis, Jno. T. & Bro. Co., 231 S Front, Phila., Pa.
Linton & Co. (Sheet Brass), Providence, R. I.
Lissberger, B. & Co. (For All Purposes), 738 E 14th, New York
Lukens, Thos. F. Metal Co., 238 N 4th, Phila, Pa.
**LUMEN BEARING CO., Buffalo, N. Y.** (See adv. index, end of book)
McDonald, Jas. & Sons Co., Cincinnati, O.
**MERCHANT & EVANS CO. (Inc.), (Bar,** Tri-Angular & Capping; Wire & Segments), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Millar, Charles & Son Co., Utica, N. Y.
More-Jones Brass & Metal Co. (Bar Wire & Triangular), St. Louis, Mo.
Nassau Smelting & Refining Works, 607 W 29th, New York
National Lead Co. (Wire, Triangular, Drop & Bar Solder), 111 B'way, New York
National Lead & Oil Co. of Pa., Pittsburg, Pa.
Naulty Smelting & Refining Co. (Brazing), 2612 Martha, Phila., Pa.
North American Smelting Co. (Tinners & Brazing), 9th c Thompson, Phila., Pa.
Pacific Metal Works, San Francisco, Cal., & Portland, Oreg.
Pearl Smelting & Refining Works, 2507 E Cumberland, Phila., Pa.
Peerless Alloy Co., Denver, Col.
Raymond Lead Co. (Wire, Triangular Bar, Drops, etc.), 735 W Washtenaw av, Chicago, Ill.
Republic Metalware Co., Buffalo, N. Y.
Richards & Co. (Inc.), 200 Causeway, Boston, Mass.
Rochester Lead Works, Rochester, N. Y.
Rogers Metal Works, Kansas City, Mo.
Rumsey, L. M. Mfg. Co., St. Louis, Mo.
Sanborn, Jno. & Son, 217 Water, New York

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Schultz, A. & Co. (Wire, Drop, etc.), Baltimore, Md.
Selby Smelting & Lead Co. (Wiping, Wire, Bar, Strip, Drop, etc.), San Francisco, Cal.
Star Refining Co., 50 State, Boston, Mass.
Tatham & Bros., 261 Water, New York
United Lead Co., 111 B'way, New York
United States Reduction Co. (Bar, Wire & Triangular), 410 S Clinton, Chicago, Ill.
United States Smelting Works, Phila., Pa.
**UNITED WIRE & SUPPLY CO. (Gold & Silver)**, 109 Summer, Providence, R. I. (See adv. index, end of book)
Windsor Mfg. Co., Milwaukee, Wis.
Woodfall Bros. (Plumbers, Canners, Tinners, etc.), 1105 Fairmount av, Phila., Pa.

## 10706—Solder (Rosin Core)

Belden Mfg. Co. ("Belden" for Switchboard & Telephone Connections), 2316 S Western av, Chicago, Ill.

## 10707—Solder (Self-Fluxing)

Belden Mfg. Co., 2316 S Western av, Chicago, Ill.
Chicago Solder Co. ("Kester," "New Peerless"), 216 N Union, Chicago, Ill.
Kellogg Switch Board & Supply Co., W Congress & Green, Chicago, Ill.
National Lead Co., 111 B'way, New York
Solderene Co., Boston, Mass.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 10708—Solder (Silver Brazing)

**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)

## 10709—Soldering Apparatus for Rail Bonding

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Smith, Chas. G., 352 Pearl, New York

## 10710—Soldering Coppers

Ansonia Brass & Copper Co., Ansonia, Conn.
Ayars Machine Co. (For Canning Factories, etc.), Salem, N. J.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Central Stamping Co., 174 Fulton, New York
Clendenin Bros., Baltimore, Md.
Covert Mfg. Co., Troy, N. Y.
Diamond Mfg. Co., Detroit, Mich.
Emmelmann Bros. Mfg. Co. (Gas), Indianapolis, Ind
Eureka Tempered Copper Works, North East, Pa.
**HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York**
Hussey, C. G. & Co., Pittsburg, Pa.
Isele, A. W. & Son, 51 Pitts, Boston, Mass.
Kaufman, A. G. Mfg. Co. (Inc.) (Self Heating) 133 Reade, New York
Mansfield Tempered Copper Co., Mansfield, O.
New Haven Copper Co., Seymour, Conn.
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Stover Mfg. Co., Freeport, Ill.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.

## 10711—Soldering Flux, Paste, Salts & Stick

Allen, L. B. Co. ("Sun" Stick, Paste & Salts), 1123 Columbus av, Chicago, Ill.
Baltimore Chemical Co. (Flux), Baltimore, Md.
Benson, A. R. Co. (Yeager's Salts), Hudson, N. Y.
Blake Signal & Mfg. Co., Boston, Mass.
Brunner Chemical Works, Cincinnati, O.
Burnley Battery & Mfg. Co. ("Diamond," Stick & Paste), North East, Pa.
Callahan, Geo. & Co. (Fluid), 218 Front, New York
Central Stamping Co. ("Solderine" Salts & Paste), 174 Fulton, New York
Chase-Shawmut Co. ("Red E"), Newburyport, Mass.
Chicago Solder Co. ("Kester,"), Self-Fluxing, etc.), 218 N Union, Chicago, Ill.
Cochrane Chemical Co. (Flux), Boston, Mass.
Corliss Chemical Co. (Stick, Paste & Salts), St. Louis, Mo.
Dielectric Mfg. Co., St. Louis, Mo.
Dow Chemical Co. ("Dow" Flux), Mansfield, Ohio
Dunton, M. W. Co. ("Nokorode," Paste), Providence, R. I.
Electric Traction Supply Co. ("I. X. L.," Salts), St. Louis, Mo.
Electrical & Mechanical Development Co. ("Hickey's Hiko," Stick), Asbury Park, N. J.
Fres-Ko Chemical Co., Fort Wayne, Ind.
General Chemical Co. (Salt & Solution), 25 Broad, New York
Grasselli Chemical Co. ("Eureka" Flux, "Standard" Flux, "Snowflake" Soldering Salts), Cleveland, O., & 60 Wall, New York
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York (See adv. index, end of book)
Hartwig, Wm. J. Co. ("New Idea"), Detroit, Mich.
Highland Electro Chemical Mfg. Co. (Insulating Soldering Paste), Connellsville, Pa.
Leveridge, C. W. ("Yankee"), 183 Greenwich, New York
McGill Mfg. Co. ("Crescent" Paste & Stick), Valparaiso, Ind.
Manhattan Electric Supply Co. ("Excelsior"), 17 Park pl, New York
National Lead Co. ("Excelsior" Flux), 111 B'way, New York
Reade Mfg. Co. ("Incomparable," Fluid), Hoboken, N. J.
Ruby Chemical Co. ("Ruby," Fluid), Johnstown, O.
Sandoval Zinc Co. (Flux, Salts, etc.), 410 N Peoria, Chicago, Ill.
Schneider, Emil (Salts), Newark, N. J.
Schultz, A. & Co. (Fluids), Baltimore, Md.
Seldner & Enequist (Soldering Fluid & Tinning Flux), Brooklyn, N. Y.
Solderene Co., Old South bldg, Boston, Mass.
Thomsen Chemical Co., Baltimore, Md.
Walpole Chemical Co., Walpole, Mass.
Walsh, John F. Co. (Norcoroso" Stick, Salts & Fluids), Pittsfield, Mass.

## 10712—Soldering Frames & Cylinders

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Leffler, Chas. & Co. (For Can Makers), 63 Clymer, Brooklyn, N. Y.

## 10713—Soldering Iron & Blow Torch Combined (Gasoline)

**BEACH-RUSS CO. (Gas, Blast), 55** Green, Brooklyn, N. Y. (See adv. index, end of book)
Emmelmann Bros. Mfg. Co. ("Emmelmann"), Indianapolis, Ind.

## 10714—Soldering Irons (Electric)

American Electrical Heater Co., Detroit, Mich.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. idex, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Ohio Electric Works, Cleveland, O.
Simplex Electric Heating Co. ("American"), Boston, Mass.
Vulcan Electric Heating Co. ("Vulcan"), Buffalo, N. Y.
Ward, Leonard Elec. Co., Bronxville, N. Y.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 10715—Soldering Irons (Self Heating)

Ams, Max Machine Co. (For Canners, etc.), Mount Vernon, N. Y.
**BEACH-RUSS CO., 55 Green, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Kaufman, A. G. Mfg. Co., 133 Reade, New York

## 10716— Soldering Sets

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Barrett, W. L. ("Handy," "Leader"), Bristol, Conn.
Millers Falls Co. ("Gem"), 28 Warren, New York
Peck, Stow & Wilcox Co., Southington, Conn.
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, Stover Mfg. Co., Freeport, Ill. end of book)
Thompson, Chas. A. Co. ("Solderine"), 41 Cortlandt, New York
Williams, Chas. & Co., Bigelow, N. Y.
Winn, Wm. R. (Non-Corrosive), 143 Maiden la, New York

## 10717— Solenoids

American Electric Fuse Co., Muskegon, Mich.

## 10718—Solenoids (Magnetic)

**ELECTRIC CONTROLLER & MFG. Co., Cleveland, O.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## Soot Blowers & Suckers (Boiler Flue or Tube)

(See Cleaners, Boiler Flue or Tube (Soot Blowers & Suckers)

## 10719—Sorters (Bean & Pea)

Bacon Mfg. Co., Pontiac, Mich.
Ferrell, A. T. & Co. ("Clipper"), Saginaw, Mich.
Johnson & Field Mfg. Co. ("Racine"), Racine, Wis.

## 10720— Sorters (Potato)

American Bell & Foundry Co., Northville, Mich.
Aspinall Mfg. Co., Jackson, Mich.
Brown, Peter & Son, Greeley, Col.
Dowden Mfg. Co. (Ltd.), Prairie City, Ia.
Hench & Drumgold Co. (Peach & Potato Sorter), York, Pa.
Hoover, Prout & Co., Avery, O.
Nawviock, J. H. & Son (Separator & Grader), Bloomsburg, Pa.
Pease, F. B. Co. (Sorter & Graders), Rochester, N. Y.
Schreiber Mfg. Co., Hammond, Ind.

## 10720a—Sounding Lines (Deep Sea)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10721—Sowers (Hand Seed)

Allen, S. L. & Co. ("Planet, Jr."), Denckla bldg, Phila., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Cyclone Seeder Co., Urbana, Ind.
Everett, J. A. (Broadcast), Indianapolis, Ind.
Goodell Co. ("Cahoon"), Antrim, N. H.
Humphrey & Sons (Broadcast), Joliet, Ill.
Little Giant Seeder Co., North Manchester, Ind.
Prairie Mfg. Co., Indianapolis, Ind.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Seeder Mfg. Co., Homer, Mich.
Whitman Agricultural Co., St. Louis, Mo.

## 10722— Sowers (Plaster)

Empire Drill Co., Shortsville, N. Y.
Foster & Williams Mfg. Co., Racine, Wis.
Ontario Drill Co, East Rochester, N. Y.
Williams Bros. (Broadcast Plaster or Grain), Ithaca, N. Y.

## 10723—Sowers & Drills (Hand Seed Garden)

Allen, S. L. & Co. ("Planet, Jr."), Denckla bldg, Phila., Pa.
Ames Plow Co, Quincy Hall, Boston, Mass.
Bacon Mfg. Co. (Seed Drills), Pontiac, Mich.
Bateman Mfg. Co., Grenloch, N. J.
Deere & Mansur Co. (Garden Seeders), Moline, Ill.
Everett, J. A., Indianapolis, Ind.
Genung, W. H. & Son ("Iron King"), Madison, O.

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Jeliff, C. O. & Co. (Onion Seed, Drills, etc.), Southport, Conn.
Keller Mfg. Co. (Seeder), Albany, Pa.
**WHITMAN & BARNES MFG. CO.** "Pearce," "Cyclone," "Chicago"), Akron, O. (See adv. index, end of book)

## Sowers & Seeders

(See Seeders & Sowers)

## Spade Mfrs.

(See Shovel, Spade & Scoop Manufacturers)

## 10724—Spades (Center, Mining Engineers')

Muirhead, John & Son, Pittston, Pa.

## 10725— Spades (Concrete)

Bond, Harold L. Co. ("Ross"), Boston, Mass.
Concrete Spade Mfg. Co. ("Vaughn," for Concrete Work), Valparaiso, Ind.

## 10726—Spades (Drain & Ditching)

Iwan Bros. ("Iwan's," Skeleton), South Bend, Ind.

## 10727— Spades (Garden)

(See also Shovel, Spade & Scoop Manufacturers)
Indiana Shovel Co. ("Maryland"), New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Western Steel & Iron Works, De Pere, Wis.

## 10728— Spades (Tiling)

American Fork & Hoe Co., Cleveland, O.
Avery Stamping Co., Cleveland, O.
Indiana Shovel Co., New Castle, Ind.
Iwan Bros. ("Iwan's," Open Back), South Bend, Ind.
Ohio Shovel & Stamping Co., Canal Dover, O.
Osmundson Spade Mfg. Co. ("Osmundson" One Piece), Perry, Ind.

## Span Wire Forks

(See Forks, Rising)

## 10728a—Spark Plug & Parts

**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

## Spars

(See Masts & Spars)

## 10729— Speaking Tubes

Berger Bros. Co., 237 Arch, Phila, Pa.
**BERGER MFG. CO., THE. Main Office** & Works, Canton, O. (See adv. index & branch offices, end of book)
Cowles, C. & Co., Inc. (Automobile & Electric Megaphone), New Haven, Conn.
Ivins, Elwood Tube Works ("Seamless"), Oakline Station, Phila., Pa.
Keil, Francis & Son ("Reliance"), 401 E 163d, New York
Lamb & Ritchie Co., Cambridge, Mass.
McWade, Wm. J. (Combination Tube Phone & Mail Box, 1910 W Kinzie, Chicago, Ill.
Manhattan Electrical Supply Co., 17 Park pl, New York
Ostrander, W. R. & Co., 22 Dey, New York
Poole, Jas. W., Boston, Mass.
Van Wagoner-Linn Construction Co., 110 W 28th, New York
Walsh, Owen Mfg. Co., 78 Barclay, New York
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, Henry, 70 Frost, Brooklyn, N. Y.

## 10730— Spears (Fish)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)

## 10731—Special Mill Work (Interior & Exterior Finish)

Bender Co., Hamilton, Ohio

## 10732—Specifications for Architects & Builders

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington, Boston, Mass.** (See adv. index, end of book)
**SOLTMANN, E. G.** (also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York (See adv. index, end of book)

## 10732a—Specimen Cases (Metal, for Museum)

**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)

## 10733— Spectrometers

Bausch & Lomb Optical Co., Rochester, N. Y.

## 10734—Spectroscopes & Polariscopes

Heil, Henry Chemical Co., St. Louis, Mo.

## 10735— Speedometers

Bell Odometer Works ("Bell"), Oakmont, Pa.
Du Vivier, Ernest H., 30 Church, New York
Star Speedometer Co. ("Star"), Danville, Pa.
Stewart & Clark Mfg. Co. ("Stewart"), 1848 Diversey, Chicago, Ill.

## Speed Reduction Transmission

(See Variable Speed Transmission)

## 10736— Spelter Mfrs.

(See also Smelters of Spelter; also Smelters & Refiners)
American Metal Co. (Ltd.) (Jobbers), 52 B'way, New York
American Smelting & Refining Co., 165 B'way, New York
American Zinc, Lead & Smelting Co., Caney, Kan.
Bartlesville Zinc Co., Bartlesville, Okla.
Beer, Sondheimer & Co., 42 B'way, New York
Behr & Steiner, 81 Fulton, New York
Blatchford, E. W. & Co., 70 N Clinton, Chicago, Ill.
Delaware Metal Refinery, 18th & Washington av, Philadelphia, Pa.
Edgar Zinc Co., St. Louis, Mo.
Genesee Metal Co., Rochester, N. Y.
Granby Mining & Smelting Co., St. Louis, Mo.
Grasselli Chemical Co. (High Grade), Cleveland, O., & 60 Wall, New York
Great Western Smelting & Refining Co., 41st & Wallace, Chicago, Ill.
Hayman, Mich'l & Co., Buffalo, N. Y.
Hegeler Bros., Danville, Ill.
Hendricks Bros., 49 Cliff, New York
Hiertz, Theo. Metal Co., St. Louis, Mo.
Illinois Smelting & Refining Co., 410 N Peoria, Illinois Zinc Co., Peru, Ill. Chicago, Ill.
Kraemer, H. & Co., 730 S Canal, Chicago, Ill.
Kroenert Smelting & Refining Co., Pittsburg, Pa.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill. Works: Mineral Point, Wis
Nassau Smelting & Refining Works, 609 W 29th, New York
New Jersey Zinc Co. ("Horsehead," "Bertha," High Grade), 55 Wall, New York
New York Metal Selling Co., 2 Rector, New
Prime Western Spelter Co., Gas, Kan. York
Raymond Lead Co., 735 W Washtenaw av, Chicago, Ill.
Sandoval Zinc Co., 410 N Peoria, Chicago, Ill.
Shimer, H. M. & Co. ("Golden Rod"), 19th & Washington, av, Phila., Pa
Trench, C. S. & Co., 81 Fulton, New York
Trotter, Nathan & Co., 36 N Front, Phila., Pa
United States Reduction Co., 410 S Clinton, Chicago, Ill.
United Zinc & Chemical Co., Argentine, Kans.
Vernon Metal Co., 30 Church, New York
Vogelstein, L. & Co., 42 B'way, New York
Waite, Ranlet & Co., Boston, Mass.
**WALSH'S SONS & CO., Harrison** N. J. (See adv. index, end of book)
Woodfall Bros., 1105 Fairmont av, Phila., Pa.

## 10737— Spermaceti

Smith & Nichols (Imported), 48 South, New York

## 10738— Spherometers

Smith, Ernest G. Co. ("Columbia"), Columbia, Pa.

## 10738a— Spice Mills

(See also Mills, Coffee & Spice)
**BROWN, A. & F. CO., 25 Dey, New** York. (See adv. index, end of book)

## 10739— Spiegel Silicon

Lee, James & Co., 76 William, New York

## 10740— Spiegeleisen

Bond, Vivian & Co., 68 Beaver, New York
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver, Colo.
Crocker Bros. (German), 99 John, New York, & Penna. bldg, Phila, Pa.
Dana & Co. (English & German), 32 B'way, New York
**LEAVITT, C. W. & CO. (English &** German), 34 Church, New York. (See adv. index, end of book)
Lee, James & Co., 76 William, New York
Maryland Steel Co., Sparrows Point, Baltimore, Md.
New Jersey Zinc Co. (From Zinc Residuum), 55 Wall, New York
Penna, Steel Co., 1421 Chestnut, Phila, Pa. Works, Steelton, Pa.
Potts & Wittman, North American bldg., Phila., Pa.
Samuel, Frank (Firm of), 1502 Market, Phila., Pa.
Tennant, C., Sons & Co., 76 Wiliam, New York
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

## 10741— Spike Mfrs.

(Under this heading see Sub-classifications)
American Iron & Steel Mfg. Co., Lebanon, Pa.
**AMERICAN STEEL & WIRE CO.,** (Wire), Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Ames, W. & Co., Jersey City, N. J.
Buckeye Rolling Mill Co., Steubenville, O.; Works: Newark, O
Colorado Fuel & Iron Co., Denver, Colo.
Davis Bros., N 29th & Bristol, Phila., Pa.
Dilworth, Porter & Co., Pittsburg, Pa.
Godcharles, F. A. Co. (Cut), Milton, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kelly Nail & Iron Co. (Cut), Ironton, O.
La Belle Iron Works, Steubenville, O.
Linton Rolling Mill Co., Linton, Ind.
Norton Iron Works (Inc.), Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond, Va.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Penn Iron Co., Lancaster, Pa.
Phillips, Townsend & Co., 4th & Glenwood av, Pottsville Bolt Co., Pottsville, Pa. Phila., Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Severence, S. Mfg. Co., Glassport, Pa.
Sylvester Co., Boston, Mass.
Tredegar Co., Richmond, Va.
Van Alen & Co. (Cut All Sizes), Northumberland, Pa.
Wheeling Steel & Iron Co. (Steel Cut), Wheeling, W. Va.

## 10742— Spikes (Boat)

(See Spikes, Ship, Dock & Bridge)

## Spikes (Bridge)

(See Spikes, Ship, Dock & Bridge)

## 10743—Spikes (Boat, Composition)

Taunton-New Bedford Cooper Co., Taunton, Mass., & New Bedford, Mass.

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## 10744— Spikes (Cut)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Brooke, E. & G. Iron Co., Birdsboro, Pa.
Dilworth, Porter & Co., Pittsburg, Pa.
Godcharles, F. A. Co., Milton, Pa.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kelly Nail & Iron Co., Ironton, O.
La Belle Iron Works, Steubenville, O.
Norton Iron Works, Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Republic Iron & Steel Co., Pittsburg, Pa.
Severence, S. Mfg. Co., Glassport, Pa.
Tredegar Co., Richmond, Va.
Van Allen & Co., Northumberland, Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.

## Spikes (Dock)

(See Spikes, Ship, Dock & Bridge)

## 10745—Spikes (Hand Made)

Davis Bros., 29th & Bristol, Phila., Pa.
Kohlmann's Sons, Humboldt, Brooklyn, N. Y.
Ulmer, Theo. C., 336 Richmond, Phila., Pa.

## 10746— Spikes (Marine)

Wilcox, Crittenden & Co., Middletown, Conn.

## 10747—Spikes (Railroad Track)

American Iron & Steel Mfg. Co. (Pressed or Rolled Points), Lebanon, Pa.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Ames, W. & Co., Jersey City, N. J.
Atlanta Steel Co., Atlanta, Ga.
Buckeye Rolling Mill Co., Steubenville, Ohio. Mills: Newark, O.
Colorado Fuel & Iron Co., Denver, Colo.
Davis Bros., N 29th & Bristol, Phila., Pa.
Dilworth, Porter & Co. (Steel), Pittsburg, Pa.
Hart Steel Co., Elyria, O.
Hirsch Rolling Mill Co., St. Louis, Mo.
Illinois Steel Co. (Chisel Pointed or Screw Spikes), 115 Adams, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Linton Rolling Mill Co., Linton, Ind.
Oliver Iron & Steel Co. (Screw), Pittsburg, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Penn Iron Co., Lancaster, Pa.
**PITTSBURGH GAGE & SUPPLY CO.** (Jobbers), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Pottsville Bolt Co., Pottsville, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Sellers Mfg. Co., 193 Michigan av, Chicago, Ill.
Severence, S. Mfg. Co., Glassport, Pa.
Sylvester Co., Boston, Mass.
Sweets Steel Co., Williamsport, Pa.
Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.
Tredegar Co., Richmond, Va.

## 10748— Spikes (Rubber)

**Morgan & Wright (Inc.), Detroit, Mich.**

## 10749— Spikes (Screw)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Illinois Steel Co. (Track), 115 Adams, Chicago, Ill.
Pittsburg Forge & Iron Co., Pittsburg, Pa.

## 10750—Spikes (Ship, Dock & Bridge)

American Iron & Steel Mfg. Co., Lebanon, Pa.
**AMERICAN STEEL & WIRE CO.,** Commercial Natl. Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Ames, W. & Co., Jersey City, N. J.
Colorado Fuel & Iron Co., Denver, Col.
Davis Bros., N 29th & Bristol, Phila., Pa.
Dilworth, Porter & Co. (Steel), Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kohlmann's, Peter Sons (Hand-Made & Galvanized), Humboldt, Brooklyn, N. Y.
La Belle Iron Works, Steubenville, O.
Lanz, Matthew & Sons, Pittsburg, Pa.
McChance Bros. Co. (Inc.) (Galvanized Boat & Slip Spikes), Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Norton Iron Works (Inc.), Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond,
Oliver Iron & Steel Co., Pittsburg, Pa. Va.
**PITTSBURGH GAGE & SUPPLY CO.** (Jobbers), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Pittsburgh Rivet Co., 38th & R R, Pittsburgh,
Penn Iron Co. (Ltd.), Lancaster, Pa. Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Severence, S. Mfg. Co., Glassport, Pa.
Sylvester & Co., Boston, Mass.
Tredegar Co., Richmond, Va.
Youngstown Sheet & Tube Co., Youngstown, O.

## Spikes (Track)

(See Spikes, Railroad Track)

## 10751— Spikes (Wharf)

(See Spikes, Ship, Dock & Bridge)

## 10752— Spikes (Wire)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Corbin Screw Corporation, New Britain, Conn.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Kokomo Steel & Wire Co., Kokomo, Ind.
Wire Goods Co., Worcester, Mass.
Youngstown Sheet & Tube Co., Youngstown, O.

## 10753—Spindles (Clamp)

Gem Mfg. Co. ("Gem," for Holding Buffing & Polishing Wheels, etc.), Pittsburg, Pa.

## 10754— Spindles (Seat)

Hartigan, W. R., Collinsville, Conn.

## 10755—Spindles (Wood)

Bogert & Hopper Co. (Carriage Furniture & Turned & Twisted Wood, etc.), 162 William, New York
Estes, E. B. & Sons (Carriage Furniture & Turned & Twisted, etc.), 74 Warren, New York

## 10756— Spinning (Metal)

Acorn Brass Mfg. Co., Aurora, Ill.
American Metal Ware Co., 368 W Huron, Chicago, Ill.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Barlow Mfg. Co., Holyoke, Mass.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Braun, David J. Mfg. Co., 668 W Wash'n, Chicago, Ill.
Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
Evansville Stamping Works, Evansville, Ind.
Flint-Lomax Electric & Mfg. Co., Denver, Colo.
Geuder, Paeschke & Frey Co. (In all Metals), Milwaukee, Wis.
Giese Co. (German Silver, Copper, Brass & Steel), 260 S 5th, Phila., Pa.
Goodwin & Kintz Co. (Brass, Steel, Aluminum, etc.), Winsted, Conn.
Hergert, Theo. E., 422 E 53d, New York.
Ideal Gas & Electric Fixture Co., 224 Canal, New York
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
Ireland & Matthews Mfg. Co. (German Silver, Copper, Brass & Steel), Detroit, Mich.
Klause, Chas., 1204 Nectarine, Phila., Pa.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
Naugatuck Mfg. Co., Naugatuck, Conn.
Phila. Metal Stamping Co., 2215 Chestnut, Phila., Pa.
Smith, Chas. G., 352 Pearl, New York
Turner Brass Works (All Metal), Sycamore, Ill.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N.Y.
Weimer, C. A., Lorain, O.

## 10756a—Spirals for Concrete Columns

American System of Reinforcing ("Unit"), 218 La Salle, Chicago, Ill.

## 10757—Spirits (Columbian)

Gray, Wm. S. & Co., 76 William, New York
Wood Products Co., Buffalo, N. Y.

## 10758— Spirits (Wood)

(See also Alcohol, Wood)

Atlantic Turpentine Co., Savannah, Ga.
Peninsular Naval Stores Co., Jacksonville, Fla.
Willcox-Ives Oil Co., Savannah, Ga.

## 10759—Spittons (Steel Factory)

(See also Cuspidors)

Ohio Mfg. Co., Painesville, O.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

## 10760— Splicers (Cable)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO** (For Wire Cables), 940 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Morris Iron Co., 90 West, New York. Works: Frederick, Md.

## 10761— Splicers (Wire)

Prairie States Mfg. Co., Cedar Rapids, Ia.
Wagner Mfg. Co. ("Little Giant"), Cedar Falls, Ia.

## 10762—Splicers (Wire Fence)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10763— Splitters (Nut)

Wishler, Jno. ("Wishler"), Gibson, Iowa

## 10764— Sponge Rubber

Faultless Rubber Co. (For Stamp Makers), Ashland, O.
Featheredge Rubber Co. ("Featheredge"), 414 W Indiana, Chicago, Ill.
**GOODRICH, B. F. CO. (For Rubber** Stamps, etc.), Akron, O. (See adv. index & branch offices, end of book)
Mattson Rubber Co., Lodi, N. J.
Morgan & Wright (Inc.) (Car Wagon, etc.), Detroit, Mich.

## 10765— Sponges

Ettman, H. L. Sponge Co., St. Louis, Mo.
Greek-American Sponge Co., 229 Randolph, Chicago, Ill.
Huneke, Henry J., 46 Gold, New York
Huneke Sponge Co., 259 Pearl, New York
Lampel, F. L. Sponge & Chamois Co., St. Louis, Mo.
Moses, A. Sons & Co., 73 Wooster, New York
National Sponge & Chamois Co., 158 William, New York
Rhodes, James H. & Co. (Producers & Bleached), 162 W Kinzie, Chicago, Ill.
Stewart Sponge & Chamois Co., 73 Wooster, New York
Vollman Sponge Co., 73 Wooster, New York

## Spool Mfrs.

(See Textile Machinery, Supplies, Etc.)

## 10766—Spoons (Aluminum)

Griswold Mfg. Co. ("Erie," Cast). Erie, Pa.
Wagner Mfg. Co., Sidney, O.

## 10767—Spoons (Basting & Mixing)

Cassady-Fairbank Mfg. Co., G106 La Salle, Chicago, Ill.
Glover, Julia B., Ardsley, N. Y.
Potter Mfg. Co., Geneva, O.
Stuber & Kuck, Peoria, Ill.
White, Ira F. & Son Co., Bloomfield, N. J.

## 10768—Spoons (Digging)

(See also Shovel & Spade Manufacturers)

Ames Shovel & Tool Co. (Telegraph, etc), Boston, Mass.
Beall Bros. (Inc.), Alton, Ill.
Chisholm, William & Sons, Cleveland, O.
Columbus Handle & Tool Co., Columbus, Ind.
Gibbs Mfg. Co. (Lock Lever), Canton, O.
Hubbard & Co., Pittsburg, Pa.
Hussey & Binns Shovel Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Oshkosh Mfg. Co., Oshkosh, Wis.
Pfeifer, Jno. & Co., 222 Race, Phila., Pa.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Russell, J. C. Shovel Co., Pittsburg, Pa.
Wyoming Shovel Works, Wyoming, Pa.

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## 10769—Spoons (Measuring)

Landers, Frary & Clark ("Universal" & "Original"), New Britain, Conn.

## 10770— Spoons (Paper)

Atlas Mfg. Co. (Ice Cream, etc.), New Haven, Conn.

## 10771—Spoons (Rock Drilling)

Falls Mfg. Co., San Francisco, Cal.

## 10772—Spoons (Strainer)

Hutchins Mfg. Co., Buffalo, N. Y.

## 10773—Spoons (Telegraph)

Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Maynard, C. A., Northampton, Mass.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

## 10774— Spoons (Tin)

**Atlas Mfg. Co., New Haven, Conn.**
Central Stamping Co., 174 Fulton, New York
**Dover Stamping & Mfg. Co., Cambridge, Mass.**
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
**Humphrey, H. W., Unionville, Conn.**
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk," **Anti-Rust**), Canandaigua, N. Y.
National Enameling & Stamping Co., 374 B'way, New York
Parker, Chas. Co., Meriden, Conn.
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.
Yale, C. I. Mfg. Co., Yalesville, Conn.

## 10775—Spoons (Wooden)

Bogert & Hopper Co. (Mustard, etc.), 162 William, New York
Estes, E. B. & Sons (Mustard, etc.), 74 Warren, New York
Peirce, W. E. & Co., Milford, N. H.

## 10776—Spouts (Coaling Station)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10777— Spouts (Grain)

Hart Grain Weigher Co. (For Use With Portable Elevators), Peoria, Ill.

## 10778—Spouts (Water, Jacketed)

**LAWRENCEVILLE BRONZE CO.** (For Large Smelting Furnaces), 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)

## 10779—Sprayers (Potato, Etc.)

Aspinwall Mfg. Co., Jackson, Mich.
Champion Potato Machinery Co. ("O. K. Champion" Four Row), Hammond, Ind.
Lisk Mfg. Co. (Ltd.) ("Lisk" Hand), Canandaigua, N. Y.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Splittstoser, F. ("Splittstoser"), North Branch, Minn.
**VOELKNER & HARRY MANUFACturing Co.** (Hand "Atomist"), 282 E Woodbridge, Detroit, Mich. (See adv. index, end of book)
Stevens Mfg. Co. ("Steitz"), Marinette, Wis.

## 10779a—Sprayers (Tobacco)

National Selling Co., Allentown, Pa.

## 10780—Spraying Apparatus

(See Pumps, Spraying; also Spraying Machines)

## 10781— Spraying Outfits

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10782—Sprays (Water, for Acid Chambers)

Pratt Engineering & Machine Co., Atlanta, Ga.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

## 10783—Spreaders (Concrete)

**ACME EQUIPMENT & ENGINEER**ing Co. ("Doud's" Controllable), Garfield bldg, Cleveland, O. (See adv. index, end of book)
Briggs Labor Saving Specialty Co. ("Briggs"), Waterloo, Pa.

## 10784—Spreaders (Earth, Ballast & Snow Plow Combined)

Jordan, O. F. Co. (Pneumatic), McCormick bldg, Chicago, Ill.

## Spreaders (Glue)

(See Glue Spreading Machinery)

## 10785—Spreaders (Hammock)

Montross, R. W. ("Aurora"), Galien, Mich.

## 10786—Spreaders (Lime)

Hench & Dromgold Co., York, Pa.
Johnston Harvester Co., Batavia, N. Y.
Ontario Drill Co., East Rochester, N. Y.
Spangler Mfg. Co., York, Pa.

## 10787—Spreaders (Manure)

American Harrow Co., Detroit, Mich.
Appleton Mfg. Co., Batavia, Ill.
Bloom Mfg. Co., Nashua, Ia.
Caldwell Mfg. Co., Columbus, Ind.
Ertel, Geo. Co., Quincy, Ill.
Galloway, Wm. Co., Waterloo, Ia.
Glen Wagon Co., Seneca Falls, N. Y.
Harder Mfg. Co., Cableskill, N. Y.
Independent Harvester Co., Plano, Ill.
**INTERNATIONAL HARVESTER CO.** of America ("Cloverleaf," "Corn King," "Steel King," "Newto" & "Kemp 20th Century"), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Iowa Spreading Co., Waterloo, Ia.
Kelly, O. S. Western Mfg. Co., Iowa City, Ia.
Kemp, J. S. Mfg. Co., Waterloo, Ia.
Litchfield Mfg. Co. ("Litchfield"), Waterloo, Ia.
Mandt Wagon Co., Stoughton, Wis.
Midland Mfg. Co., Tarkio, Mo.
Moline Plow Co., Moline, Ill.
Newark Machine Co., Newark, O.
New Idea Spreader Co., Coldwater, O.
Ogburn Mfg. Co., Newton, Ia.
Richardson Mfg. Co., Worcester, Mass.
Robinson Spreader Co., Vinton, Ia.
Rock Island Plow Co., Rock Island, Ill.
Rosendale Spreader Co., Rosendale, Wis.
Ross, E. W. Co., Springfield, O.
Rude Bros. Mfg. Co., Liberty, Ind.
Sechler, D. M. Implement & Carriage Co., Moline, Ill.
Smith Mfg. Co. ("Great Western"), 158 E. Harrison, Chicago, Ill.
Spangler Mfg. Co. (Broadcast), York, Pa.
Wood, Walter A. Mowing & Reaping Machine Co. ("Fearless"), Hoosick Falls, N. Y.

## 10788—Spreaders (Rubber Mill)

American Tool & Machine Machine Co., Boston, Mass.
Birmingham Iron Foundry, Derby, Conn.
New England Butt Co., Providence, R. I.

## 10788a— Spreaders (Tar)

**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 10789— Spring Dampener

McCord & Co. ("McCord"), 150 Michigan av, Chicago, Ill.

## 10789a—Spring Repairers (Automobile)

Auto Spring Repairer Co. ("Petze"), 123 Liberty, New York

## 10790—Springs (Agricultural Implement)

(See also Springs, Machinery)

Adams, E. B. & Son ("Spalding"), Racine, Wis.
**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Babcock Mfg. Co., Leonardsville, N. Y.
Bridgeport Chain Co., Bridgeport, Conn.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E 106th, New York
Crucible Steel Co., Pittsburg, Pa.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Harrow Spring Co. (Cultivator Sectional, etc.), Kalamazoo, Mich.
Hubbard, D. M. Spring Co., Imperial, Mich.
Independent Steel Co. of America, Kenova, W. Va.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., 586 Washington, New York
Page Woven Wire Fence Co., Adrian, Mich.
Works, Monessen, Pa.
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Cor-
Sabin Machine Co., Montpelier, Vt. ry, Pa.
Wilson, Robt. P., Newark, N. J.

## 10791—Springs (Air Brake)

(See Springs, Coil or Spiral)

## 10792— Springs (Automobile)

(See also Springs, Various Kinds; also Shock Absorbers)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Ansted Spring & Axle Co., Connersville, Ind.
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Boyd Steel Spring Co., 505 State, Brooklyn, N. Y.
Burgess, C. H. ("Burgess" Double Tension), Wenona, Ill.
Cleveland-Canton Spring Co., Canton, O.
Cleveland Wire Spring Co. (Wire), Cleveland, Ohio
Cook Spring Co., 420 E 106th, New York
Detroit Steel Products Co., Detroit, Mich.
Detroit Wire Spring Co. (Wire), Detroit, Mich.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Gem Wire Fence Co., Pontiac, Mich.
Harvey Spring Co., Racine, Wis.
Hebb, Geo. A. (Coil), Newark, N. J.
Hess-Pontiac Spring & Axle Co., Pontiac, Mich.
Hess Spring & Axle Co., Carthage, Cincinnati, O.
Higgins Spring & Axle Co., Racine, Wis.
Independent Steel Co. of America, Kenova, W. Va.
Iron City Spring Co., Pittsburg, Pa.
Jackson Cushion Spring Co. ("Rough Rider"), Jackson, Mich.
Kalamazoo Spring & Axle Co., Kalamazoo, Mich.
Lewis Spring & Axle Co., Jackson, Mich.
Merrill, E. R. Spring Co., 530 W 28th, New York
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co., Worcester, Mass.
National Spring Co., New Castle, Ind.
Palmer, Jos., 333 Rutherford av, Boston, Mass.
Penn Spring Works, Baldwinsville, N. Y.
Pittsburg Spring & Steel Co., Pittsburg, Co.
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Corry, Pa.

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Sheldon Axle Co., Wilkesbarre, Pa.
Spring Perch Co., Bridgeport, Conn.
Triple Action Spring Co. (Triple Action), 215 E 21st, Chicago, Ill.
Tuthill Spring Co., 754 W Polk, Chicago, Ill.
Union Spring & Mfg. Co. (Coil & Elliptic), New Kensington, Pa.

## 10793— Springs (Bed)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Bonnell, E. M., Corry, Pa.
Bridgeport Chain Co., Bridgeport, Conn.
Cuyahoga Spring Works, 810 Champlain, Cleveland, O.
Fischer, Chas. Spring Co., 89-90 Walker, New York
Hartford Wire Works, Hartford, Conn.
Independent Steel Co. of America, Kenova, W. Va.
Jackson Cushion Spring Co. ("Rough Rider"), Jackson, Mich.
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Milwaukee Woven Wire Works, Milwaukee, Wis.
Morgan Spring Co. ("Helical"), Worcester, Mass.
Windsor Spring Co. (Spiral), Kenosha, Wis.

## 10794—Springs (Bicycle)

(See Springs, Coil or Spiral)

## 10795—Springs (Bird Cage)

Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Hendryx, Andrew B. Co., New Haven, Conn.
Lindeman, O. & Co., 35 Wooster, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co., Worcester, Mass.
Ossawan Mills Co., Norwich, Conn.
Parker Wire Goods Co., Worcester, Mass.
Richards, T. C. Hardware Co., Winsted, Conn.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Wire Goods Co., Worcester, Mass.

## 10796—Springs (Bolster)

(See Springs, Car; also Springs, Carriage & Wagon)

## 10797—Springs (Brush Holder)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Eureka Tempered Copper Works, North East, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
Railway Steel Spring Co., 30 Church, New York
Vose Spring Co., 347 W B'way, New York

## 10798— Springs (Car)

**AMERICAN SPIRAL SPRING & MFG.** Co. (Car Truck), 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Betts Spring Co., San Francisco, Cal.
Brill, J. G. Co. (Car & Locomotive), 62d & Woodland av, Phila, Pa.
Cook Spring Co., 420 E 106th, New York
Crucible Steel Co. of America, Pittsburg, Pa.
Detroit Steel Products Co., Detroit, Mich.
Farist Steel Co., Bridgeport, Conn.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Harrow Spring Co. (Railway & Street Car), Kalamazoo, Mich
Independent Steel Co. of America, Kenova, W. Va.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co. (Heavy, Elliptic & Coil), 30 Church, New York
Riverside Steel Spring Co., Riverside, N. J.
Rowland, Wm. & Harvey, Frankford, Phila., Pa.
Simplex Railway Appliance Co. (Coil & Elliptic), Commercial Nat'l Bank Bldg., Chicago, Ill. Works: Hammond, Ind.
Standard Steel Works, Harrison bldg, Phila., Pa
Taylor Electric Truck Co. (Coil & Elliptic), Troy, N. Y.
Union Spring & Mfg. Co. (Coil & Elliptic). Pittsburg, Pa. Works: New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York

## 10799—Springs (Car Fender)

(See Springs, Coil or Spiral)

## 10800—Springs (Car Seat)

(See Springs, Furniture & Upholstering)

## 10801—Springs (Carriage & Wagon)

Adams, E. B. & Son (Bolster), Racine, Wis.
**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & R. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Ansted Spring & Axle Co., Connersville, Ind.
Armstrong, J. B. Mfg. Co., Flint, Mich.
Belle City Bolster Spring Co. (Wagon), Racine.
Betts Spring Co., San Francisco, Cal. Wis.
Cleveland-Canton Spring Co., Canton, O.
Cleveland Wire Spring Co. (Bolster), E 38th Hamilton, N E, Cleveland, O.
Concord Axle Co. ("Palmer's" Concord), Pena-
Cooper, Geo. & Co., Cleveland, O. cook, N. H.
Delany, D. & Son, Newark, N. J.
Detroit Wire Spring Co., Detroit, Mich.
Dobbins, C. E. & Co., 460 N. Halsted, Chicago.
Foster Bros. Mfg. Co., Utica, N. Y. Ill.
**FRASSE, PETER A. & CO., Canal & Sullivan, New York.** (See adv. index & branch offices, end of book)
Garden City Spring Works, 20th & Santa Fe R. R., Chicago, Ill.
Harvey Spring Co. (Bolster), Racine, Wis.
Heartley Machine, Variety Iron & Tool Works (Wagon Seat), Toledo, O.
Hess-Pontiac Spring & Axle Co., Pontiac, Mich.
Hess Spring & Axle Co., Carthage, Cincinnati, Ohio
Higgins Spring & Axle Co. (Elliptic, etc.), Racine, Wis.
Hirsch Bros. (Bolster), Milwaukee, Wis.
Independent Steel Co. of America, Kenova, W. Va.
Indianapolis Bolster Spring Co., Indianapolis, Ind.
Iron City Spring Co. (Oil Tempered), N S, Pittsburg, Pa.
Jackson Cushion Spring Co. ("Rough Rider," Carriage Seat, etc.), Jackson, Mich.
Kalamazoo Spring & Axle Co., Kalamazoo, Mich
Liggett Spring & Axle Co., Monongahela, Pa.
Merrill, F. B. Spring Co., 530 W 28th, New
Morgan Spring Co., Worcester, Mass. York
Mulholland Co. (Ball Bearing), Dunkirk, N. Y.
New Haven Spring Co., New Haven, Conn.
Palmer, Jos. (Est. of), 333 Rutherford, Boston, Mass.
Penn Spring Works, Baldwinsville, N. Y.
Racine Sattley Co. (Bolster, etc.), Racine, Wis.
Rowland, Wm. & Harvey, Frankford, Phila.,
Sheldon Axle Co., Wilkesbarre, Pa. Pa.
Spring Perch Co. (Carriage Only), Bridgeport, Conn.
Studebaker Bros., Mfg. Co. (Wagon & Bolster). South Bend, Ind.
Tanner, D. F. (Bolster), Holland, N. Y.
Tuthill Spring Co., 754 W Polk, Chicago, Ill.
Wilson, Robert P. ("Wilson's Hold-up" Shaft Springs), Newark, N. J.
United Spring Co., Buffalo, N. Y.
Wurster, Fred. W. & Co., 375 Kent av, Brooklyn, N. Y.

## 10802—Springs (Children's Carriage, Etc.)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Heartley Machine, Variety Iron & Tool Works Toledo, O.
Wagner, E. R. Mfg. Co., North Milwaukee, Wis.

## 10803—Springs (Clock, Music Box, Etc.)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Cary Spring Works, 240 W 29th, New York
Cook Spring Co., 420 E 106th, New York
Dunbar Bros. Co., Bristol, Conn.
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Independent Steel Co. of America, Kenova, W. Va.
Manros, F. N., Forestville, Conn.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., 586 Washington, New York
Waterbury Clock Co., Waterbury, Conn.

## 10804—Springs (Coil or Spiral)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.** (Light & Heavy), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Cary Spring Works, 240 W 29th, New York
Chatillon, Jno. & Sons (Cast Steel), 85 Cliff, New York
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E. 106th, New York.
Cooper, Geo. & Co., Cleveland, O.
Crucible Steel Company of America (All Kinds of Coil), Pittsburg, Pa.
Detroit Steel Products Co. ("Harvey" Friction Draft), Detroit, Mich.
Detroit Wire Spring Co. (Wire), Detroit, Mich.
Dunbar Bros. Co. (Small Sheet Steel & Brass Wire), Bristol, Conn.
Eureka Spring Co., 347 W B'way, New York
Farist Steel Co. (Car, etc.), Bridgeport, Conn.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.
Hebb, Geo. A. (Coil), Newark, N. J.
Hubbard, M. D. Spring Co., Pontiac, Mich.
Independent Steel Co. of America, Kenova, W. Va.
Insull, Thos., 1429 Hutchinson, Phila., Pa.
Jackson Cushion Spring Co. ("Rough Rider", Wire Coil), Jackson, Mich.
Ludlow-Saylor Wire Co., St. Louis, Mo.
McGuire-Cummings Mfg. Co., 400 N Sangamon,
Meyer & Co., Auburn, N. Y. Chicago, Ill.
Miller & Van Winkle, 18 Bridge, Brooklyn,
Morgan Spring Co., Worcester, Mass. N. Y.
New York Wire & Spring Co., 586 Washington, New York
Peck & Way Mfg. Co. (Small Spiral), Forestville, Conn.
Pittsburgh Spring & Steel Co. (Car, etc.), Pittsburg, Pa.
Price, Wm. F. & Son (Spiral), Reading, Pa.
Railway Steel Spring Co. (Light & Heavy), 30 Church, New York
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Corry, Pa.
Riverside Steel Spring Co., Riverside, N. J.
Sabin Machine Co. (Organ, etc.), Montpelier,
Sheldon Axle Co., Wilkes-Barre, Pa. Vt.
Shuler, W. S. Spring Co., Amsterdam, N. Y.
Simplex Railway Appliance Co. (Car & Locomotive), Commercial Nat. Bk. bldg, Chicago, Ill. Works: Hammond, Ind.
Taylor Electric Truck Co. (Coil Only), Troy, N. Y.
Tuthil Spring Co., 754 W Polk, Chicago, Ill.
Union Spring & Mfg. Co. (Car & Machinery), Pittsburg, Pa. Works: New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York
Wilson, Robt. P., Newark, N. J.
Wing, J. T. & Co., Detroit, Mich.

## Springs (Compression)

(See Springs, Extension & Compression)

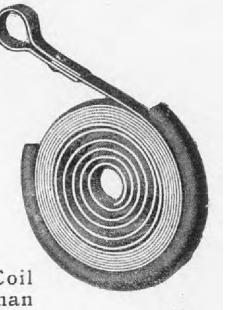
## 10805—Springs (Cultivator)

(See Springs, Agricultural Implement)

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# HIGH GRADE SPRINGS



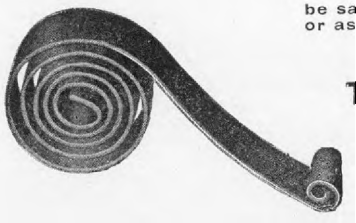
WE are fully equipped for manufacturing Flat Springs of all kinds, Flat Coil Springs, Specialties from Steel, Brass, Phosphor Bronze, or German Silver, Tempered Goods of every description, all kinds of Wire Springs, including Compression, Extension and Torsion Springs, Automatically Formed Wire Goods and Special Springs of every kind. We make a large variety of Tempered Spring Washers for use in switchboards and for other purposes.

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BRISTOL, CONN., U. S. A.

# FORT PITT SPRING & MFG. CO.

MANUFACTURERS OF

## COIL & ELLIPTIC SPRINGS

## VANADIUM STEEL SPRINGS

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| Kalas & Bennett, | San Francisco, Cal. |
| W. B. Jacques & Company | New York, N. Y. |
| Sloan-Howell & Company, | Philadelphia, Pa. |
| Commonwealth Supply Co., | Richmond, Va. |
| Railway Specialty & Supply Co., | Chicago, Ill. |
| R. C. Watts & Company, | Denver, Colo. |
| William R. Jacques, | Kansas City, Mo. |
| Railway Supply & Equipment Co., | Atlanta, Ga. |

# AMERICAN SPIRAL SPRING & MFG. CO.

Established 1887

## SPRINGS OF ALL KINDS

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# Hendricks' Commercial Register

IS USED FOR

## Purchasing Purposes

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THAN ANY OTHER PUBLICATION ISSUED


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## 10806—Springs (Curtain)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Morgan Spring Co., Worcester, Mass.

## 10807—Springs (Cushion)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Jackson Cushion Spring Co., Jackson, Mich.
National Spring & Wire Co. ("Black Velvet," Spiral Wire for Autos, Carriages, etc.), Albion, Mich.

## 10808— Springs (Door)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**ARCADE MFG. CO. ("Warner" &** "Perfect"), Freeport, Ill. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Chatillion, John & Sons, 85 Cliff, New York
Chicago Spring Butt Co. ("Chicago", "Reliance"), 334 Union Park pl, Chicago, Ill.
Cleveland Wire Spring Co., Cleveland, O.
Columbian Hardware Co. ("Star", "Torrey"), Cleveland, Ohio
Cuyahoga Spring Works (Screen Door), 810 Champlain. Cleveland, O.
Hayward, S. F. & Co. (Engine House), 39 Park Pl, New York
Independent Steel Co. of America, Kenova, W. Va.
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co. ("Perfection" & "Morgan"). Worcester, Mass.
National Mfg. Co. (Coil), Sterling, Ill.
Parker Wire Goods Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hdw. Mfg. Co. (Coil), Homer, N. Y.
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sabin Machine Co., Montpelier, Vt.
Sargent & Co., New Haven, Conn.
Sharon Hardware Mfg. Co.( "Perfect"), Sharon, Pa.
Union Mfg. Co. (Coil), New Britain, Conn.
Union Spring & Mfg. Co., New Kensington, Pa.
Wagner Mfg. Co., Cedar Falls, Ia.
Wire Goods Co. ("Perfection"), Worcester, Mass.

## 10809— Springs (Draft)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Beecher Draught Spring Co. ("Beecher", Safety), New Haven, Conn.
Crucible Steel Company of America, Pittsburg, Pa.
Detroit Steel Products Co. ("Harvey" Friction Draft), Detroit, Mich.
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Hayward, S. F. & Co., 39 Park Pl, New York
Morgan Spring Co., Worcester, Mass.
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Raymond Mfg. Co (Ltd.), Corry, Pa.
Samson Draught Spring Co., Somerville, Mass.
Union Spring & Mfg. Co. (Friction, etc.), New Kensington, Pa.
Wilson, Robert P. ("Mogul"), Newark, N. J.

## 10810—Springs (Elliptic)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Cleveland-Canton Spring Co., Canton, O.
Cooper, George & Co., Cleveland, O.
Crucible Steel Company of America, Pittsburg, Pa.
Delaney & Son, Newark, N. J.
Farist Steel Co. (For Railroad Cars), Bridgeport, Conn.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**PORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Hess Spring & Axle Co. (Platform & Concord), Carthage, Cincinnati, O.
Higgins Spring & Axle Co., Racine, Wis.
Insull, Thomas, 1429 Hutchinson, Phila., Pa.
Iron City Spring Co., Allegheny, Pa.
Kalamazoo Spring & Axle Co. (For Farm Wagon Seats), Kalamazoo, Mich.
Keystone Spring Works, 13th & Buttonwood, Phila., Pa.
Latrobe Steel Co., Girard bldg, Phila., Pa.
Merrill, E. R. Spring Co., 530 W 28th, New York
Morgan Spring Co., Worcester, Mass.
Pittsburgh Spring & Steel Co. (Car & Locomotive, Traction Car), Pittsburg, Pa.
Railway Steel Spring Co. (Car & Locomotive), 30 Church, New York
Rowland, Wm. & Harvey (Inc.), Frankford, Phila., Pa.
Sheldon Axle Co., Wilkes-Barre, Pa.
Shuler, D. W. S., Amsterdam, N. Y.
Simplex Railway Appliance Co. (Car & Locomotive), Commercial Nat'l Bank bldg, Chicago, Ill. Works: Hammond, Ind.
Standard Steel Works Co. (Car & Locomotive), Harrison bldg, Phila., Pa.
Taylor Electric Truck Co., Troy, N. Y.
Tuthill Spring Co., 754 W Polk, Chicago, Ill.
Union Spring & Mfg. Co. (Locomotive & Railway Equipment Coil), Pittsburg, Pa. Works: New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York

## 10811—Springs (End Gate)

Gogel Mfg. Co. (For Wagon Builders), Toledo, Ohio

## 10812—Springs (Engine House Door)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Morgan Spring Co., Worcester, Mass.
Myer, Benj. Co., 470 Broad, Newark, N. J.

## 10813—Springs (Extension & Compression)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial National Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
Cook Spring Co., 420 E 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. Co.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Hubbard, M. D. Spring Co., Pontiac, Mich.
Jackson Cushion Spring Co. ("Rough Rider"), Jackson, Mich.
Miller & Van Winkle ("Eagle"), 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co., Worcester, Mass.
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Union Spring & Mfg. Co., New Kensington, Pa.

## Springs (Fish Plate)

(See Lock Nuts & Washers)

## 10814—Springs (Friction Draft)

(See also Springs, Draft)
**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Crucible Steel Co. of America, Pittsburg, Pa.
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Frost Railway Supply Co. ("Harvey"), Detroit, Mich.

## 10815—Springs (Furniture & Upholstering)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
Cuyahoga Springs Works, Cleveland, O.
Detroit Wire Spring Co., Detroit, Mich.
Fischer, Chas. Spring Co., 89-90 Walker, New York
Independent Steel Co. of America, Kenova, W. Va.
Jackson Cushion Spring Co. ("Rough Rider"), Jackson, Mich.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., 586 Washington, New York
Page Woven Wire Fence Co., Adrian, Mich. Works, Monessen, Pa.
Staples & Hanford Co., Newburgh, N. Y.
Windsor Spring Co., Kenosha, Wis.

## 10816— Springs (Gate)

(See Springs, Door; also Spring, Coil or Spiral)

## 10817—Springs (Governor)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Independent Steel Co. of America, Kenova, W. Va.
Morgan Spring Co., Worcester, Mass.
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Union Spring & Mfg. Co., New Kensington, Pa.

## 10818—Springs (Grain Drill)

(See Springs, Agricultural Implement)

## 10819— Springs (Hair)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Manross, F. N. & Sons ("Manross" Non-Magnetic for Marine Clocks, Steam Gauges, Electrical Instruments, etc.), Forestville, Conn.

## 10820—Springs (Helical)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
Cook Spring Co., 420 E 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Independent Steel Co. of America, Kenova, W. Va.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., 586 Washington, New York
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co. (For Locomotive Trucks, etc.), 30 Church, New York
Union Spring & Mfg. Co., New Kensington, Pa.

## 10821—Springs (Hinge)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)

## 10822—Springs (Locomotive)

(See Springs, Car)

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## 10823—Springs (Machinery)

(See also Springs, Agricultural Implement)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Boyd Steel Spring Co., 505 State, Brooklyn, N. Y.
Cary Spring Works, 240 W 29th, New York
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E. 106th, New York.
Crucible Steel Company of America, Pittsburg,
Cuyahoga Spring Works, Cleveland, O. Pa.
Dunbar Bros. Co., Bristol, Conn.
Eureka Spring Co., 347 W B'way, New York
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago,
Harrow Spring Co., Kalamazoo, Mich. Ill.
Hebb, Geo. A., Newark, N. J.
Independent Steel Co. of America, Kenova, W. Va.
Miller & Van Winkle, 18 Bridge, B'lyn, N. Y.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., 586 Washington, New York
Pittsburgh Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New
Raymond Mfg. Co. (Ltd.), Corry, Pa. York
Sabin Machine Co., Montpelier, Vt.
Union Spring & Mfg. Co. (Coil), Pittsburg, Pa. Works: New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York
White Steel Co., Monadnock blk, Chicago, Ill.
Wilson, Robert P., Newark, N. J.

## 10824—Springs (Oil Tempered)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Chatillon, Jno. & Sons, 85 Cliff, New York
Cook Spring Co., 420 E 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.
Dunbar Bros. Co. (Clock, etc.), Bristol, Conn.
Detroit Steel Products Co., Detroit, Mich.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Miller & Van Winkle, 18 Bridge, B'lyn, N. Y.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co. (Phosphor Bronze and Music Wire), 586 Washington, New York
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New
Sabin Machine Co., Montpelier, Vt. York
Union Spring Mfg. Co., New Kensington, Pa.
White Steel Co., Monadnock blk, Chicago, Ill.

## 10825—Springs (Organ)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)

## 10826—Springs (Picker Rod)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)

## 10827—Springs (Pipe Bending)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Cleveland Wire Spring Co. ("Perfect"), Cleveland, O.
Independent Steel Co. of America, Kenova, W. Va.
Morgan Spring Co., Worcester, Mass.
Raymond Mfg. Co. (Ltd.) (Plumbers'), Corry, Pa.
Vose Spring Co., 347 W B'way, New York

## 10828—Springs (Pop Valve)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10829—Springs (Refrigerator Door)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Roller Bar Door Closer Co., Springfield, Mass.

## 10830—Springs (Rubber)

**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Canfield, H. O. Co., Bridgeport, Conn.
Combination Rubber & Belting Co. (Wagon, Car, etc.), Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.
Faultless Rubber Co., Ashland, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Hamilton Rubber Mfg. Co., Trenton, N. J.
Manhattan Rubber Mfg. Co., 18 Vesey, New York, & Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York
Morgan & Wright, Inc. (Car, Wagon, etc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade** & Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila.,
Republic Rubber Co., Youngstown, O. Pa.
Sayen Rubber Co. (Car Cylinder, Wagon, etc.), Hamilton Square, N. J.
Springfield Tire & Rubber Co., Springfield, O.
Thermoid Rubber Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 10831—Springs (Rubber Channeler)

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Morgan & Wright, Inc. (For Quarrying Machinery), Detroit, Mich.
**PENNSYLVANIA RUBBER CO., Jeannette,** Pa. (See adv. index & branch offices, end of book)

## 10832—Springs (Screen Door)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Lawrence Bros., Sterling, Ill.
National Mfg. Co., Sterling, Ill.

## 10833—Springs (Small)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill (See adv. index & branch offices, end of book)
Cary Spring Works, 240 W 29th, New York
Cleveland-Canton Spring Co., Canton, Mich.
D'Arcy Spring Co. (Cushion), Kalamazoo, Mich.
Dunbar Bros. Co., Bristol, Conn.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Hubbard, M. D. Spring Co., Pontiac, Mich.
Independent Steel Co. of America, Kenova, W. Va.
Jackson Cushion Spring Co. (Seat & Back Springs), Jackson, Mich.
Miller & Van Winkle, 18 Bridge, Brooklyn,
Morgan Spring Co., Worcester, Mass. N. Y.
National Spring & Wire Co., Albion, Mich.
Peck & Way Mfg. Co., Forestville, Conn.
Railway Steel Spring Co., 30 Church, New
Raymond Mfg. Co. (Ltd.), Corry, Pa. York
Trenton Spring Mattress Co., Trenton, N. J.
Union Spring & Mfg. Co., New Kensington,
Wallace-Barnes Co., Bristol, Conn. Pa.
Windsor Spring Co. (Cushion), Kenosha, Wis.
Wing, Chas. Co. (Cushion), Amesbury, Mass.

## Springs (Spiral)

(See Springs, Coil or Spiral)

## 10834—Springs (Steam Gauge)

Wells, A. H. & Co. ("Bourdon"), Waterbury, Conn.

## 10835—Springs (Switch & Signal)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Union Spring & Mfg. Co., New Kensington, Pa.

## 10836—Springs (Torsion)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.** (Round Wire, Square Steel, etc.), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 10837—Springs (Track Scraper)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
Harrow Spring Co., Kalamazoo, Mich.

## 10838—Springs (Trolley)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Cary Spring Works, 240 W 29th, New York
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E. 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.
Eureka Spring Co., 347 W B'way, New York
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 500 W Huron, Chicago, Ill.
Independent Steel Co. of America, Kenova, W. Va.
Merrill, E. R. Spring Co., 530 W 28th, New York
Miller & Van Winkle, 18 Bridge, B'klyn, N. Y.
Morgan Spring Co., Worcester, Mass.
Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New
Raymond Mfg. Co. (Ltd.), Corry, Pa. York
Union Spring & Mfg. Co., New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York

## 10839—Springs (Valve)

(See Springs, Coil or Spiral)

## 10840—Springs (Vanadium Steel)

**AMERICAN VANADIUM CO., 327** Frick bldg Pittsburg, Pa. (See adv. index, end of book)
Boyd Steel Spring Co., 505 State, Brooklyn, N. Y.

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## 10841—Springs (Window)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Caldwell Mfg. Co., Rochester, N. Y.
Dunbar Bros. Co., Bristol, Conn.
Eagan, Thos. F., Worcester, Mass.
Miller & Van Vinkle, 18 Bridge, New York
Morgan Spring Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Pullman Mfg. Co., Rochester, N. Y.
**STANLEY WORKS ("Sweets" &** "Jenks"), New Britain, Conn. (See adv. index & branch offices, end of book)

## 10841a—Springs (Window, Electrical)

**BERNZ, OTTO ("Simplex"), 21 Ashland** av, Newark, N. J. (See adv. index, end of book)

## 10842— Springs (Wire)

**AMERICAN SPIRAL SPRING & MFG.** Co., 56th & A. V. R. R., Pittsburg, Pa. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
Bridgeport Chain Co., Bridgeport, Conn.
Cary Spring Works, 240 W 29th, New York
Chatillon, John & Sons (Cast Steel), 85 Cliff, New York
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E. 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.
Detroit Wire Spring Co., Detroit, Mich.
Dunbar Bros. Co. (Clock, etc.), Bristol, Conn.
Fischer, Chas. Spring Co., 89-90 Walker, New York
**FORT PITT SPRING & MFG. CO.,** McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gaynor & Mitchell Mfg. Co. (Spiral), Bridgeport, Conn.
Goetz, Chas. & Co., 2548 S Kenzie av, Chicago, Ill.
Independent Steel Co. of America (All Kinds), Kenova, W. Va.
National Spring & Wire Co. ("Black Velvet" Cushion & Back Auto & Carriage, etc.), Albion, Mich.
Ludlow-Saylor Wire Co., St. Louis, Mo.
Miller Wire Spring Co., Bridgeport, Conn.
Miller & Van Winkle, 18 Bridge, B'klyn, N. Y.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., 586 Washington, New York
Pittsburgh Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Sabin Machine Co., Montpelier, Vt.
Tuck Mfg. Co., Brockton, Mass.
Union Spring & Mfg. Co., New Kensington, Pa.
Washburn Wire Co. (Clock, etc.), Phillipsdale.
Wire Goods Co., Worcester, Mass. **R. I.**

## 10843—Sprinklers (Automatic Fire)

Automatic Sprinkler Construction Co., 206 La Salle, Chicago, Ill.
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO. (Complete Plants** Erected), Brook & D, Louisville, Ky. (See adv. index, end of book)
Collins, J. G. (Installations), 175 E 116th, New York
Esty Sprinkler Co., Laconia, N. H.
Foskett & Bishon Co., New Haven, Conn.
Francis Bros. & Jellett (Inc.), 315 N 15th, Phila., Pa.
General Fire Extinguisher Co. ("Grinnell"), Providence, R. I.
International Sprinkler Co. (Wet & Dry Pipe Systems), 517 Arch, Phila., Pa.
Manufacturers' Automatic Sprinkler Co. ("Non-Corrosive"), 1 Liberty, New York
Niagara Fire Extinguisher Co., Akron, O.
Rockwood Sprinkler Co. ("Rockwood"), Worcester, Mass.
**SIMMONS, JNO. CO., 106 Centre,** New York. (See adv. index, end of book)
Vogel, H. G. Co. ("Esty"), 12 Walker, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.

## 10844—Sprinklers (Hose, Etc.)

Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Elkhart Brass Mfg. Co. ("Hoosier" & "Aeme"), Elkhart, Ind.

## 10844a—Sprinklers (Park)

Clow, Jas. B. & Sons ("Ryan" Arm Revolving Spray, etc.), 342 Franklin, Chicago, Ill.

## 10845—Sprinklers (Potato)

Aspinwall Mfg. Co., Jackson, Mich.
Deming Co., Salem, O.
Hurst, H. L. Mfg. Co., Canton, O.
Nowviock, J. H. & Sons, Bloomsburg, Pa.
Peppler, Thomas (Two Row), Hightstown, N. J.
Potato Implement Co. (Compressed Air, Knapsack Powder Guns, etc.), Traverse City, Mich.
Shangle, John R., Hightstown, N. J.
Steitz, J. R., Cudahy, Wis.

## Sprinkling Cars (Street Railway)

(See Cars, Sprinkling, Street Railway)

## 10846—Sprockets (Roller & Block Chain)

Brown-Lipe-Chapin Co., Syracuse, N. Y.
Cullman Wheel Co., 1346 Greenwood ter, Chicago, Ill.

## 10847— Spuds (Bark)

American Axe & Tool Co., Glassport, Pa.
American Logging Tool Co., 150 Michigan av, Chicago, Ill.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Romer Axe Co., Dunkirk, N. Y.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Warren Axe & Tool Co., Warren, Pa.
White, G. Axe Co., Honesdale, Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 10848—Spuds (Electric)

Buckeye Mfg. Co., Canton, O.

## 10849— Spurs (Horse)

North & Judd Mfg. Co., New Britain, Conn.

## 10850—Spurs & Points (Ladder)

Brewer Bros. (Wrought Steel), 614 Filbert, Phila., Pa.

## 10851—Square & Gauge Combined

Stanley Rule & Level Co., New Britain, Conn.

## 10852— Squares (Bevel)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10853—Squares (Caliper)

Billings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10854—Squares (Center)

Brown & Sharpe Mfg. Co., Providence, R. I.
Hoggson & Pettis Mfg. Co. ("Carr's"), New Haven, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10855—Squares (Combination)

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Challenge Cutlery Corporation ("Fox's"), Bridgeport, Conn.
Crookston Tool Co. ("A. B. C." Protractor Square), Crookston, Minn.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Goodell-Pratt Co. (Carpenters, etc.), Greenfield, Mass.
Massachusetts Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO., Athol, Mass** (See adv. index & branch offices, end of book)

## 10856—Squares (Iron & Steel)

Breul, Fred G. ("Fox's" All Steel Carpenters'), Bridgeport, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cassady-Fairbank Mfg. Co. (Steel Only), 6106 La Salle, Chicago, Ill.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Eagle Square Mfg. Co. (Carpenters), S. Shaftsbury, Vt.
Forsyth Mfg. Co. (Metal), Buffalo, N. Y.
Knickerbocker Mfg. Co. (Steel), Belleville, N. J.
Nicholls Mfg. Co. (Framing), Ottumwa, Iowa
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn., & 94 Centre, New York
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Southington Hardware Co. (Carpenters), Southington, Conn.
Stanley Rule & Level Co., New Britain, Conn.

## 10857—Squares (Machinists')

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Hoggson & Pettis Mfg. Co. ("Carr's"), New Haven, Conn.
Massuchusetts Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10858—Squares (Protractor)

Crookston Tool Co. ("A-B-C"), Crookston, Minn.

## 10859— Squares ("T")

Challenge Cutlery Corporation ("Fox's"), Bridgeport, Conn.
Deane, E. L. ("Deane's"), Holyoke, Mass.
Dietzgen, Eugene Co., 181 Monroe, Chicago, Ill.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
**ELLIOTT, B. K. CO., 108 6th, Pitts**burg, Pa. (See adv. index, end of book)
Emmert Mfg. Co. ("Tec" Vertical), Waynesboro, Pa.
**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)
Rich, J. & G. (Protractor), 122 N 6th, Phila., Pa.

**SOLTMANN, E. G.**
(& Perspective Curves for Drafting; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Welch, T. F. & Co. (Steel Blade), 65 Sudbury, Boston, Mass.
Wyke, J. & Co., Boston, Mass.

## 10860—Squares (Tailors)

Kerby & Bro., 51 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
Magee & Richards, 273 Grand, New York

## 10861—Squares (Try & Mitre)

Athol Machine Co., Athol, Mass.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Brown & Sharpe Mfg. Co., Providence, R. I.
Challenge Cutlery Corporation ("Fox's"), Bridgeport, Conn.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Goodell-Pratt Co. (All Steel), Greenfield, Mass.
Mayhew, H. H. Co. (Try Square & Butt Gauge Combined), Shelbourne Falls, Mass.
Nicholls Mfg. Co. (Bevel-Try), Ottumwa, Ia.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Southington Hardware Co., Southington, Conn.
Stanley Rule & Level Co., New Britain, Conn.
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Union Saw Co. ("Shireman"), Williamsport, Pa.

## 10862—Squeezers (Lemon)

**ARCADE MFG. CO. ("Arcade"** Stationary, "Champion" Stationary, "20th Century," Beef, Lemon, Onion & Fruit, "Last Drop," "Perfect," "Royal Limes," "Union," "Drum" Pattern & X-Ray"), Freeport, Ill. (See adv. index, end of book)
Bogert & Hopper Co. (Wood), 162 William, New York

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Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Chapman-Sargent Co. (Wood), Perrysburg, O.
**Erie Specialty Co. ("Walkers"), Erie, Pa.**
Estes, E. B. & Sons (Wood), 74 Warren, New York
**Fanning, J. P. ("Fanning"), 678 Jefferson av, Brooklyn, N. Y.**
Gibbs Mfg. Co., Canton, O.
**Gilchrist Co. ("Yankee," "Lindon," Aluminum, Porcelain & Wood), Newark, N. J.**
**Griswold Mfg. Co. ("Classic"), Erie, Pa.**
**Hart Mfg. Co. ("Easy"), Unionville, Conn.**
**Hardware & Woodenware Mfg. Co. ("Crescent," "Full Moon," "Diamond," "Boss," "Star," "Brighton," "American Queen," "Gem," "Union" & "Samson"), 693 B'way, New York**
Hills, Edwin, Plainsville, Conn.
Hotchkiss, E. S., Bridgeport, Conn.
**Hutchinson, Homer H. (Wood), Bristol, N. H.**
Kingery Mfg. Co., Cincinnati, O.
**Landers, Frary & Clark ("Little Giant," "Crown" & "L. F. C."), New Britain, Conn.**
Manning, Bowman & Co., Meriden, Conn.
Missouri Malleable Iron Co., East St. Louis, Ill.
Mosteller Mfg. Co. ("Mosteller"), 324 W Indiana, Chicago, Ill.
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Barker, Chas. Co., Meriden, Conn.
Penn Hardware Co. ("Penn"), Reading, Pa.
Redlich Mfg. Co. (Aluminum Wooden Bowl, etc.), 637 Oak, Chicago, Ill.
Redlinger & Angle Mfg. Co. ("New Century," "National"), Freeport, Ill.
Richardi & Bechtold (Wood), Bellaire, Mich.
**Rocky Hill Hardware Co. ("Leader"), Rocky Hill, Conn.**
Sargent & Co. (Tinned Malleable Iron, also Porcelain Lined), New Haven, Conn.
Shiner, Wm. Son & Co., Freemanburg, Pa.
Sommer Faucet Co. (Wooden, etc.), Newark, N. J.
Stover Mfg. Co., Freeport, Ill.
Taplin Mfg. Co. ("Victor"), New Britain, Conn.
Tucker & Dorsey Mfg. Co. (Wooden), Indianapolis, Ind.
Union Porcelain Works (Iron Frame, Porcelain Ball & Bowl), 300 Eckford, Brooklyn, N. Y.
Williams, A. O. Co., Ravenna, O.
Wrightsville Hardware Co. ("L. & S. I. Co."), Wrightsville, Pa.

## 10863—Squeezers (Rotary)

**Danville Foundry & Machine Co., Danville, Pa.**
**GARRISON A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
National Roll & Foundry Co., Avonmore, Pa.
**Philadelphia Roll & Machine Co. (Puddle Ball), S 23d & Wash'n av, Phila., Pa.**
Sterrit-Thomas Foundry Co., Pittsburg, Pa.
**United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.**

## 10864—Squibs ("Du Pont Electric")

**du PONT, E. I. de NEMOURS POWder Co., Wilmington, Del.** (See adv. index & branch offices, end of book)

## 10864a—Squibs (Gas & Sulphur)

**du PONT, E. I. de NEMOURS POWder Co. ("Powell," "D. & B." & "Blue Label"), Wilmington, Del.** (See adv. index, end of book)

## 10865— Squibs (Miners')

Jones, T. R. Co. ("Sure-Shot"), Wilkes-Barre, Pa.
Blue Label Safety Squib Co., Plymouth, Pa.
Hayes Bros., Jackson, O.
Howells Mining Drill Co., Plymouth, Pa.
**Miners' Supply Co. ("Daddow & Beadles"), St. Clair, Schuylkill Co., Pa.**
**Powell, Jno. R. ("Powell"), Plymouth, Pa.**
Star Electric Fuse Works ("Star" Electric), Wilkes-Barre, Pa.
Stride, Hugh, Mahonay City, Pa.

## 10866— Stable Fixtures

(Those who Manufacture a Full Line, such as Stalls, Etc., are indicated by a §)

Abendroth Bros., 100 Beekman, New York
American Fence & Forge Co., Dayton, O.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
**Barber Mfg. Co. (Cast Iron Feed Boxes, Cesspools, Hay Racks, etc.), Ashtabula, O.**
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
**BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich.** (See adv. index, end of book)
Broad Gauge Iron Stall Works, Boston, Mass.
§Buch's, A. Sons Co. (Make Full Line), Elizabethtown, Pa.
**CANTON FOUNDRY & MACHINE CO.** Feed Boxes & Gutters Only), Canton, O. (See adv. index, end of book)
Central Foundry Co. (Cast Iron Feed Boxes, Hay Racks, Drains, etc), 90 West, New York
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Champion Iron & Wire Works, Omaha, Neb.
Chapman, Wm. O., 30 Church, New York
§Cheney, S. & Son (Hay Racks, Mangers, etc.), Manlius, N. Y.
Chesapeake Iron Works, Baltimore, Md.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Columbia Iron & Wire Works Co., Canton, O.
**COLUMBUS WIRE & IRON WORKS,** Co., Columbus, O. (See adv. index, end of book)
Creswell, S. J. Iron Works, 23rd & Cherry, Phila., Pa.
**ESTEY WIRE WORKS CO., 59 Fulton, N. Y.** (See adv. index, end of book)
§Fiske, J. W. Iron Works, 56 Park Pl, New York
Glenn Mfg. Co. (Cesspools, Gutters, etc.), St. Charles, Ill.
**HANKE IRON & WIRE WKS., 2550** Fillmore, Chicago, Ill. (See adv. index, end of book)
Hitzeroth, Edward, 3124 Market, Phila., Pa.
§Jones, M. D. & Co., 71 Portland, Boston, Mass.
§Jones, Willis H., Utica, N. Y.
**LANDON, E. R. IRON & WIRE** Works, 166 N May, Chicago, Ill. (See adv. index, end of book)
Lasar Mfg. Co., St. Louis, Mo.
Lindstam, S. F. ("American" Sanitary Stalls), 2615 N Aldrich av, Minneapolis, Minn.
Logan, Martin, 105 W 40th, New York
§Mott, J. L. Iron Wks., 118 5th av, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Northwestern Foundry (Inc.), Minneapolis, Minn.
**§SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
§Smyser, Royer Co., York, Pa., & Baltimore, Md.
Snead Architectural Iron Works, Louisville, Ky.
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
**§SNOW, W. A. IRON WORKS, 19 Portland, Boston, Mass.**
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Stuart & Peterson Co. (Galvanized Feed Mangers), Burlington, N. J.
§Swett, A. L. Iron Works, Medina, N. Y.
**TAYLOR & DEAN, Penn av. & 25th,** (See adv. index & branch offices, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
Union Iron & Foundry Co., St. Louis, Mo.
§Van Dorn Iron Works Co., Cleveland, O.
Voss, Fred'k, 1852 Austin av, Chicago, Ill.
**VULCAN CO., Detroit, Mich.** (See adv. index, end of book)
Vulcan Iron Works, San Francisco, Cal.
Washington Iron Works, Buffalo, N. Y.
§Westervelt, A. B. & W. T., 102 Chambers, New York
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.
Youngstown Wire & Iron Co., Youngstown, O.

## 10867—Stable or Stall Floors

Fleming & Co. (Adamantine Clinker Brick), 253 B'way, New York
Kettle River Co., Minneapolis, Minn.
Lindstam, S. F. ("American" Sanitary Stalls), 2615 N Aldrich av, Minneapolis, Minn.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Schouler, W. W. (Sanitary), 45 Clinton, Newark, N. J.
**SNOW, W. A. IRON WORKS ("Snow's" Sanitary Stall Floor), 19 Portland, Boston, Mass.**

## 10868— Stackers (Hay)

Acme Harvester Co., Peoria, Ill.
**Anderson Co., St. Paul, Minn.**
Barley, Thos. K., Sedalia, Mo.
**Children's, E. Sons Mfg. Co., Council Bluffs, Iowa**
Dain Mfg. Co. (Automatic), Ottumwa, Ia.
**Danielsen Implement Co., Independence, Mo.**
Fleming & Sons Mfg. Co. (Swinging), Huntsville, Mo.
Hay Tool Mfg. Co. ("Iowa"), Council Bluffs, Iowa
Ideal Pump & Mfg. Co., Green City, Mo.
**INTERNATIONAL HARVESTER CO.** of America ("Overshot" Swinging; also Alfalfa), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**Jackson, Byron Machine Works, San Francisco, Cal.**
Jenkins Hay Rake & Stacker Co., Chillicothe, Mo.
Kansas City Hay Press Co., Kansas City, Mo.
La Crosse Hay Tool Co., Ottumwa, Ia.
McCall Mfg. Co., Macon, Mo.
Midland Mfg. Co., Tarkio, Mo.
Pella Stacker Co., Pella, Iowa
Plattner Implement Co., Denver, Colo.
Superior Hay Stacker Mfg. Co., Linneus, Mo.
Wright Rake & Stacker Co., Wheeling, Mo.
Wyatt, F. Mfg. Co., Salina, Kan.

## 10869— Stackers (Lumber)

Curtis & Co. Mfg. Co., St. Louis, Mo.
Filer & Stowell Co. (Automatic for Stacking Lumber on Tram Cars for Dry Kilns), Milwaukee, Wis.
Soule Steam Feed Works, Meridian, Miss.

## 10870—Stackers (Straw)

Advance Thresher Co. (Pneumatic & Automatic), Battle Creek, Mich.
Aultman & Taylor Machinery Co. (Pneumatic), Mansfield, O.
**Anderson Company ("Automatic & Overshot"), St. Paul, Minn.**
Avery Co. (Automatic, for Threshers), Peoria, Ill.
Birdsell Mfg. Co., South Bend, Ill.
Buffalo Pitts Co. ("Russell" Pattern Wind), Buffalo, N. Y.
**Case, J. I. Threshing Machine Co. ("Case," Wind & Independent Swing, etc.), Racine, Wis.**
Fosston Mfg. Co. (Wind), St. Paul, Minn.
**Frick Co. (Landis Eclipse Wind), Waynesboro, Pa.**
**Gaar, Scott & Co., Richmond, Ind.**
**Geiser Mfg. Co. (Wind), Waynesboro, Pa.**
**Harrison Machine Works (Automatic), Belleville, Ill.**
Heincke & Co. ("Sattley," Attached), Springfield, Ill.
Huber Mfg. Co. (Wind Stackers), Marion, O.
Indiana Mfg. Co., Indianapolis, Ind.
Maplebay Windstacker Co., Crookston, Minn.
Monarch Self Feeder Co., Cedar Falls, Ia.
Newark Machine Co., Newark, O.
Nichols & Shepard Co. (Swinging & Wind), Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Pella Stacker Co., Pella, Ia.
**Port Huron Engine & Thresher Co. (Pneumatic), Port Huron, Mich.**
**Reeves & Co. (Automatic & Pneumatic), Columbus, Ind.**
**Robinson & Co. (Automatic, Swinging), Richmond, Ind.**
**Rumley, M. Co. (Automatic & Pneumatic), Laporte, Ind.**
Russell Wind Stacker Co. (Wind), Indianapolis, Ind.
**Russell & Co. (Pneumatic, Swinging & Wind), Massillon, O.**
Sattley Stacker Co., Indianapolis, Ind.
Smith & Sons Mfg. Co., Kansas City, Mo.
Westinghouse Co., Schenectady, N. Y.

## 10870a—Stacks (Newspaper)

**SNEAD & CO. IRON WORKS (Steel),** ft. of Pine, Jersey City, N. J. (See adv. index, end of book)

## Stacks (Steel)

(See Chimneys, Steel)

## 10871—Stages (Lineman's)

Dicke, C. H. Tool Co., Downers Grove, Ill.
Meckel, Fred. L., 11 E 13th, Chicago, Ill.

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## 10872—Stained Glass Substitutes

Diaphanium, The ("Windowphanie" Translucent Glass Decorations), 19 E 14th, New York
Parrish, S. H. & Co., 214 Clark, Chicago, Ill.
Quaile, Wm. B. ("Glacier Seccotine"), 2010 B'way, New York
Ross, W. A. & Bro. ("Glacier"), 11 S William, New York
Sedgwick, Wm., 260 Clark, Chicago, Ill.
Sefton Bros., 113 E Madison, Chicago, Ill.
Young, W. C., 916 Arch, Phila, Pa.

## 10872a—Stainoff for Cleaning & Polishing

Steward, D. M. Mfg. Co., Chattanooga, Tenn.

## Stair Builders (Iron)

(See Iron Stair Builders)

## 10873—Stair Builders' Supplies

(Stair Rails Balusters, Newel Posts, Etc.)

American Sash & Door Co. (Wholesale Mfrs.), Kansas City, Mo.
American Wood Working Co., 4345 Wabansia av, Chicago, Ill
Bering Mfg. Co. (Pine & Cypress, Wholesale Mfrs.), Houston, Tex.
Bossert, Louis & Son, Grand st & Newtown creek, Brooklyn, N. Y.
Carter, S. C. & C. Co. (Wholesale Mfrs.), Keokuk, Iowa
Chicago Mill Work Supply Co., 967 W 20th, Chicago, Ill.
Cream City Sash & Door Co. (Wholesale Mfrs.), Milwaukee, Wis.
Curtis Bros. Co. (Wholesale Mfrs.), Clinton Iowa
Curtis, Towle & Paine Co. (Wholesale Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Minneapolis, Minn.; Milwaukee and Wausau, Wis
Cypress Tank & Mfg. Co. (Wholesale Mfrs.) Patterson, La
Dickey, A. & Co., 37 Bristol, Boston, Mass.
East Tacoma Mfg. Co. (Wholesale Mfrs.), Tacoma, Wash
Empire Lumber Co. (Wholesale Mfrs.), Winona, Minn.
Foster-Munger Co. (Wholesale Mfrs.), W 20th & S Sangamon, Chicago, Ill
Gauger, Jno. A. & Co. (Wholesale Mfrs.), 22d & Laflin, Chicago, Ill
Gould Mfg. Co. (Wholesale Mfrs.), Oshkosh Wis
Gray's Harbor Commercial Co. (Wholesale Mfrs.), Cosmopolis, Wash.
Hafner Mfg. Co. (Wholesale Mfrs.), Dock & Main, St. Louis, Mo.
Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia., & Columbia, Tenn
Huttig Mfg. Co. (Wholesale Mfrs.), Muscatine, Iowa
Hyde-Murphy Co., Ridgway, Pa.
Leuckel, A. K. & Co., Trenton, N. J.
Lord, P. A. Lumber Co., La Grange, Ill.
McMillen, R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
Missouri Stair Co. (Wholesale Mfrs.), 3900 Chouteau av, St. Louis, Mo.
Morgan Co. (Wholesale Mfrs.), Oshkosh, Wis.
Paine Lumber Co. (Wholesale Mfrs.), Oshkosh, Wis.
Palmer, Fuller & Co. (Wholesale Mfrs.), 2244 Lumber, Chicago, Ill.
Radford Sash & Door Co. (Wholesale Mfrs.), 845 W 22d, Chicago, Ill.
Roach & Musser Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa
Roberts, E. L. & Co. (Wholesale Mfrs.), W 22d & Union Place, Chicago, Ill
Rockwell Mfg. Co. (Wholesale Mfrs.), Milwaukee, Wis.
Salisbury Wood Working Co. (Inc.), Salisbury, Md.
Schaller-Hoerr Co., 1013 S Calway, Chicago, Ill.
Spangler, Frank Co. (Newels, Balusters, Spindles, etc.), Toledo, O.
Starkweather, R. R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
**STEARNS, A. T. LUMBER CO.,** Neponset, & 166 Devonshire, Boston, Mass. (See adv. index, end of book)
Zimmerman, Chas. E., Syracuse, N. Y.

## 10874— Stair Corners

Painesville Metallic Binding Co. (Brass & Zinc), Painesville, Ohio
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 10875— Stair Nosing

Globe Mfg. Co. (Brass & Zinc), Painesville, O.
Howell, F. R. Brass Works (Brass), 122 N Franklin, Phila, Pa.
Knapp Rubber Binding Co. ("Antislippin" Rubber), 31 E 17th, New York
Hungerford, U. T. Brass & Copper Co. (Brass & Zinc), 497 Pearl, New York
Painesville Metallic Binding Co. (Brass & Zinc), Painesville, Ohio
**TURNER & SEYMOUR MFG. CO.** (Brass & Zinc), Torrington, Conn. (See adv. index, end of book)
Universal Safety Tread Co. (Safety Treads), 141 Milk, Boston, Mass.

## 10876—Stair Treads (Brass)

**AMERICAN MASON SAFETY TREAD CO.,** 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
Manhattan Brass Co., 338 E 28th, New York
Painesville Metallic Binding Co., Painesville, O.
Universal Safety Tread Co. (Lead Filled), 141 Milk, Boston, Mass.
Waterbury Brass Goods Corporation, Waterbury, Conn.

## 10877—Stair Treads (Cast Iron)

**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Cheney, S. & Son, Manlius, N. Y.
Murray & Jacobs Mfg. Co. ("Perfection"), 149 W 36th, New York
Painesville Metallic Binding Co. (Also Galvanized Iron), Painesville, O.
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
Swett, A. L. Iron Works, Medina, N. Y.
Woonsocket Mach. & Press Co. ("Rockdale Mills," Corrugated), Woonsocket, R. I.

## 10877a—Stair Treads ("Empire" Carborundum)

**AMERICAN MASON SAFETY TREAD CO.,** 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

## 10878—Stair Treads (Hard Brass, Delta)

**AMERICAN MASON SAFETY TREAD CO.,** (Lead or Carborundum), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

## 10879—Stair Treads (Lead Filled)

**AMERICAN MASON SAFETY TREAD CO.,** 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
Universal Safety Tread Co., 141 Milk, Boston, Mass.

## Stair Treads (Rubber)

(See Mats & Matting, Rubber)

## 10879a—Stair Treads (Safety)

**AMERICAN MASON SAFETY TREAD Co.,** 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

## 10880—Stair Treads (Sectional Safety)

**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 10881—Stair Treads (Wrought Steel)

**AMERICAN MASON SAFETY TREAD CO.** (Lead or Carborundum), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)
Keystone Steel Co. ("Kesco" Diamond Ribbed & Checkered Pattern), Warren, Pa.
**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index & branch offices, end of book)
Universal Safety Tread Co. (Lead Filled), 141 Milk, Boston, Mass.

## 10881a—Stairs (Interlocking Steel)

New York Bridge & Iron Co. ("Simplex-Duplex"), 18 W 34th, New York

## Stairs (Spiral)

(See Iron Stair Builders)

## 10882—Stairways (Moving)

(Also Known as Escalators)

**OTIS ELEVATOR CO. (Escalators),** 17 Battery pl, New York. (See adv. index & branch offices, end of book)
Reno Inclined Elevator Co., 553 W 33d, New York
Traveling Stairway Co., 1123 B'way, New York

## 10883—Stake Pockets for Cars

Cambria Steel Co. (Forged Steel), Johnstown, Pa.
Pressed Steel Car Co., Pittsburg, Pa. Pa.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

## 10884—Stake Tacks & Hatches

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)

**SOLTMANN, E. G.**
(For Engineers & Surveyors; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 10885—Stakes (Tinners')

Emrich, Phil ("Emrich"), Cincinnati, O.
**NIAGARA MACHINE & TOOL** Works, Buffalo, N. Y. (See adv. index, end of book)
Plumb, Fayette R. (Inc.), Phila., Pa.
Stortz, John & Son (Also Slaters'), 210 Vine, Phila., Pa.


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LEAD OR CARBORUNDUM FILLED. ROLLED STEEL OR HARD BRASS BASE.
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## 10886– Stamp Affixer

(See also Envelope Sealing & Stamping Machine)

Office Appliance Mfg. Co. ("White", Postage Stamp Affixer), Providence, R. I.

## 10886a–Stamped Parts for Cream Separators

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10887–Stamping (Aluminum)

**ARROW CAN CO., Warren &** Church, New York. (See adv. index & branch offices, end of book)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10888–Stamping (Automobile)

American Shovel & Stamping Co., Lorain, O.

**ARROW CAN CO., Warren &** Church, New York. (See adv. index & branch offices, end of book)

Bowen Mfg. Co., Auburn, N. Y.

Crosby Co., 171 Pratt, Buffalo, N. Y.

Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.

Fedders Mfg. Works, Buffalo, N. Y.

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.

Lindholm Metal Stamping Co., Camden, N. J.

**MERCHANT & EVANS, Inc., 517** Arch, Phila, Pa. (See adv. index & branch offices, end of book)

Michigan Stamping Co., Detroit, Mich.

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10889–Stamping (Brass)

**ARROW CAN CO., Warren &** Church, New York. (See adv. index & branch offices, end of book)

Bowen Mfg. Co., Auburn, N. Y.

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Chicago Nut Co., 118 W Jackson boul, Chicago, Ill.

Crosby Co., 171-189 Pratt, Buffalo, N. Y.

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.

Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.

**NIAGARA FALLS METAL STAMPing** Works, Niagara Falls, N. Y. (See adv. index, end of book)

**VOELKNER & HARRY MANUFACturing** Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

Waterbury Brass Goods Corporation, Waterbury, Conn.

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10890–Stamping (Sheet Metal)

Acer & Whedon, Medina, N. Y.

Acorn Brass Mfg. Co., Aurora, Ill.

Adell Bros. Mfg. Co., Orange, Mass.

Advance Mfg. Co. (Hardware Specialties, etc.), Racine, Wis.

**AMERICAN CAN CO., 447 W 14th,** New York (See adv. index & branch offices, end of book)

American Metal Stamping Co. (Specialties), 20 E Herman, Gtn., Phila., Pa

American Metal Ware Co. (Brass, etc.), 368 W Huron, Chicago, Ill.

American Shovel & Stamping Co., Lorain, O.

American Tube & Stamping Co. (Steel), Bridgeport, Conn.

**ARROW CAN CO., Warren &** Church, New York. (See adv. index & branch offices, end of book)

Ashley Machine Works, Rochester, N. Y.

Atlantic Stamping Co., Rochester, N. Y.

Atlas Stamping & Flexible Tube Co., 554 W 25th, New York

Avery Stamping Co., Cleveland, O.

**BAY STATE STAMPING CO. (And** Sheet Metal Stamping to Order), 380 Chandler, Worcester, Mass. (See adv. index, end of book)

**BETTCHER MFG. CO., Clark av at** C C C & St L Ry S W, Cleveland, O. (See adv. index, end of book)

Bossert Co., Utica, N. Y.

Boston Pressed Metal Co., Worcester, Mass.

Bowen Mfg. Co., Auburn, N. Y.

Bridgeport Brass Co. (Large Stampings), Bridgeport, Conn.

Bridgeport Metal Goods Mfg. Co., Bridgeport, Conn.

Buckeye Stamping Co., Columbus, O.

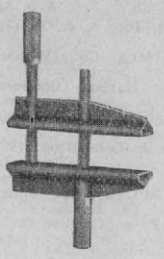
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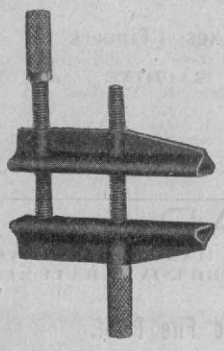
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Burr Mfg. Co., Cleveland, O.
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Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Central Metal & Machine Works (Stamping & Packages), Rock Island, Ill.
Champion Safety Lock Co., Geneva, O.
**CHANDLER CO. (Brass & Steel up to** 1-10 inch), Springfield, Mass. (See adv. index, end of book)
Chicago Nut Co., 671 W Jackson boul, Chicago, Ill.
Cincinnati Stamping Co., Cincinnati, O.
Cincinnati Tin & Japan Co., Cincinnati, O.
Clark, A. N. & Son (Nickel Finish, etc.), Plainville, Conn.
Clark Novelty Co., Rochester, N. Y.
Clark, W. J., Co., Salem, O.
Cleveland Stamping & Tool Co. (Also Enameled & Polished Hollow Ware), Hamilton nr Coe, Cleveland, O.
Coe-Stapley Mfg. Co., Bridgeport, Conn.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Crosby Co., 171-189 Pratt, Buffalo, N. Y.
Curtis, Albert B., Worcester, Mass.
Detroit Metal Spinning Co. (Brass, Copper & Zinc), Detroit, Mich.
Eastern Machine & Stamping Co., Providence, R. I.
**EDWARDS MFG. CO., 545-565 Eg-**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Erdle Perforating Co., Rochester, N. Y.
Erie Stamping & Mfg. Co., Erie, Pa.
Fedders Mfg. Works (Light Stamping), Buffalo.
Forsyth Mfg. Co., Buffalo, N. Y. N. Y.
Gem Mfg. Co., Chelsea, Sta., Boston, Mass.
Gem Mfg. Co. (Brass & Steel Stamping & Drawing), Pittsburg, Pa.
Geuder, Paeschke & Frey Co. (From all Metals), Milwaukee, Wis.
Genesee Plating & Machine Works, Rochester, N. Y.
**GLOBE MACHINE & STAMPING CO.** (Heavy for Automatic, Deep Drawing, etc.), 3368 Hamilton av, Cleveland, Ohio. (See adv. index, end of book)
Goodwin & Kintz Co. (Brass, Aluminum, Nickel, etc.), Winsted, Conn.
Grabler Mfg. Co. (Brass, Iron & Steel), Cleveland, O.
Grammes, L. F. & Sons, Allentown, Pa.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Hall, Chas. E. Co., Buffalo, N. Y.
**HELWIG MFG. CO. ("Helwig"), St.** Paul, Minn. (See adv. index, end of book)
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Houghton Mfg. Co. (Of Every Description), Worcester, Mass.
Huebel Mfg. Co., Newark, N. J.
Imperial Brass Mfg. Co., 444 S Jefferson, Chicago, Ill.
Indianapolis Corrugating Co., Indianapolis, Ind.
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**Keim, Jno. R. Mills (Inc.), Buffalo, N. Y.**
Konigslow, E. Stamping & Tool Works, Cleveland, Ohio
Konigslow, Otto Mfg. Co. (Special Manufacturing), Cleveland, O.
Lang Mfg. Co., Racine, Wis.
Lindholm Metal Stamping Co., Camden, N. J.
McDowell Mfg. Co. (Steel & Brass), Pittsburg, Pa.
McMahon & Eggers Mfg. Co., Tacoma, Wash.
Manhattan Screw & Stamping Works, West End av & 67th, New York
Matthews, H. A. Mfg. Co. (Stamping & Drawing), Seymour, Conn.
Matthews Mfg. Co. (Stamping & Drawing, Nickel, Brass & Copper), Worcester, Mass.
Medina Stamping & Machine Co., Medina, N. Y.
Michigan Pressed Steel Co., Ypsilanti, Mich.
Michigan Stamping Co., Detroit, Mich.
Mossberg, Frank Co., Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
New York Stamping Co., N 11th & B'way, Brooklyn, N. Y.
**NIAGARA FALLS METAL STAMP-**ing Works (Aluminum, Brass Copper, Steel, etc.), Niagara Falls, N. Y. (See adv. index, end of book)
Nortmann-Duffke Foundry Co. (Deep Stamping & Drawing), Milwaukee, Wis.
Novelty Mfg. Co., Waterbury, Conn.
Ohio Shovel & Stamping Co., Canal Dover, Ohio.
Parish & Bingham Co., Cleveland, O.
**PARKER, JOHN L. CO., Worcester,** Mass. (See adv. index, end of book)
Parker Wire Goods Co. (Also Punching), Worcester, Mass.
Phenix Mfg. Co., Milwaukee, Wis.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Quinby Mfg. Co., Minneapolis, Minn.
R. P. K. Pressed Metal Co., Bridgeport, Conn.
Racine Metal Stamping Co., Racine, Wis.
S. & I. Company, Springfield, Mass.
Saginaw Sheet Metal Works, Saginaw, Mich.
Schatz Mfg. Co., Poughkeepsie, N. Y.
Schwab, R. J. & Sons Co., Milwaukee, Wis.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sessions, J. H. & Son, Bristol, Conn.
Smith, M. I. (Pressing & Stamping), Bristol, Conn.
Sparks, Withington Co. (Point Bands, Shaft Tips, Special Shapes, etc.), Jackson, Mich.
Stearns W. H. Stamping Co. (Cold Metal), Worcester, Mass.
Stortz, John & Son (Also Forming), 210 Vine, Phila., Pa.
Sturges & Burn Mfg. Co., 508 Green, Chicago,
Turner Brass Works, Sycamore, Ill. Ill.
**VOELKNER & HARRY MANUFAC-**turing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
Vogel, Wm. & Bros., 37 S. 9th, Brooklyn, N. Y.
W. & S. Mfg. Co., Worcester, Mass.
Wagner, E. R. Mfg. Co., North Milwaukee, Wis.
Warner Bros. Co. (Small), Bridgeport, Conn.
Wheeling Stamping Co., Wheeling, W. Va.
Wilcox, W. W. & Co., 325 Dearborn, Chicago, Ill.
Wire Specialty Works, 551 Fulton, Chicago, Ill.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)
Youngstown Iron & Steel Co., Youngstown, O.


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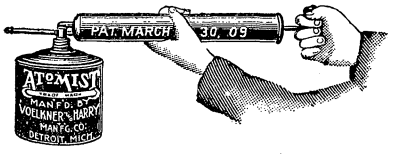

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(See also Enameled Ware Mfrs.; also Stamping, Sheet Metal)

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Adams & Westlake Co., 319 W Ontario, Chicago, Ill.
**ALLEGHENY STEEL CO. (Journal** Box Lids & Heavy Railroad Stampings), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
American Metal Stamping Co., 20 E Herman, Gtn., Phila., Pa.
Avery Stamping Co., Cleveland, O.
Bowen Mfg. Co., Auburn, N. Y.
Briscoe Mfg. Co. (Galvanized Work, etc.), Detroit, Mich.
Brunswick Mfg. Co. (Light Metal), Brunswick, Me.
Canton Stamping & Enameling Co. (French Grey), Canton, O.
Central Stamping Co., 174 Fulton, New York
Chicago Die & Machine Works, 568 Fulton, Chicago, Ill.
Cincinnati Stamping Co., Cincinnati, O.
Cincinnati Tin & Japan Co., Cincinnati, O.
Crosby Co. (General Stamping & Drawing in Sheet Metals), 171-189 Pratt, Buffalo, N.Y.
Diamond Chain & Mfg. Co. (Steel), Indianapolis, Ind
Dover Stamping & Mfg. Co., Cambridge, Mass.
Erie Stamping & Mfg. Co., Erie, Pa.
Forsyth Mfg. Co. (Sheet Metal), Buffalo, N.Y.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hunt & Dorman Mfg. Co., Cleveland, O.
Hydraulic Pressed Steel Co. (Steel), Cleveland, O.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Keim, Jno. R. Mills (Inc.), (Sheet Metal), Buffalo, N. Y.
Lalance & Crosjean Mfg. Co., 299 B'way, N. Y.
National Enameling & Stamping Co., 374 B'way, New York
**NIAGARA FALLS METAL STAMP-**ing Works (Galvanized Work, etc.), Niagara Falls, N. Y. (See adv. index, end of book)
**North, O. B. & Co., New Haven, Conn.**
North & Judd Mfg. Co., New Britain, Conn.
Novelty Stamping Co., Bellaire, O.
**Parish & Bingham Co. (Cold Pressed Steel),** Cleveland, O.
**Parker, Chas. Co., Meriden, Conn.**
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
**Republic Metalware Co., Buffalo, N. Y.**
Republic Stamping & Enameling Co., Canton, Ohio
**Rochester Stamping Co. (Tin & Hollow Ware)** Rochester, N. Y
Sayre Stamping Co., Sayre, Pa.
Sessions, J. H. & Son, Bristol, Conn.
Standard Stamping Co., St. Louis, Mo.
Troy Stamping Works, Troy, N. Y.
**VOELKNER & HARRY MANUFAC-**turing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
Wheeling Stamping Co, Wheeling, W Va
**WORCESTER PRESSED STEEL CO.** Worcester, Mass. (See adv. index, end of book)

## 10892–Stamping & Drawing Sheet Metal)

(See also Stamping, Sheet Metal)

**ALLEGHENY STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. in dex & branch offices, end of book)
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)
**GLOBE MACHINE & STAMPING CO.** (Deep Drawing a Specialty), Cleveland, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**PARKER, JOHN L. CO., Worcester,** Mass. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10893–Stamps (Atmospheric)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 10894– Stamps (Gravity)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 10895–Stamps (Name, for Concrete)

Adjustable Name Stamp Co., Clinton, Wis.

## Stamps (Numbering & Dating)

(See Numbering Machines; also Dating Machines)

## 10896–Stamps (Rubber)

Consolidated Stamp Mfg. Co., 87 Maiden la., New York
Crescent Seal & Stamp Co., Cambridge, Mass.
Gibson, A. C. Co., Buffalo, N. Y.
Hanson, C. H., 44 Clark, Chicago, Ill.
Matthews, Jas. H. & Co., Pittsburg, Pa.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
Moise-Klinker Co., 1212 Market, San Francisco.
Mulhaupt, F. Jos., Lafayette, Ind. Cal.
Ness, Geo. M., Jr., 61 Fulton, New York.
Smith, R. H. Mfg. Co., 293 Main, Springfield Mass
Stewart & Hollman, 201 B'way, New York
Swisher, R. D. Mfg. Co., 413 S Clinton, Chicago, Ill.
Tenney, J. F. Co., 210 S Water, Chicago, Ill.
Weber-Erickson-Bunting Co., 211 Diamond Pittsburg, Pa

## Stamps, Shoes & Dies

(See Shoes & Dies, Stamp Mill)

## 10897– Stamps (Steam)

**ALLIS-CHALMERS CO., Milwaukee** Wis. (See adv. index & branch offices, end of book)

## 10898– Stamps (Steel)

Butler, A. G., 284 Pearl, New York.
**CHANDLER CO., Springfield, Mass.** (See adv. index, end of book)
Cleveland Steel Stamp Works, Cleveland, O.
Cunningham, M. E. Co. (For Letters & Figures for Making Tools, etc.), Pittsburg, Pa.
Detroit Rubber Stamp Co., 99 Griswold, Detroit, Mich.
Gowanda Agricultural Works ("Cutler's"), Gowanda, N. Y.
Hanson, C. H. (Of All Kinds), 44 S Clark, Chicago, Ill.
Hill Independent Mfg. Co., Muskegon, Mich.
Kautz, Fred C. & Co. (For Blacksmiths', etc.), 2633 Lake, Chicago, Ill.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
Matthews, Jas. H. & Co., 306 Wood, Pitts-
Mulhaupt, F. Jos., Lafayette, Ind. burg, Pa.
Ness, Geo. M., Jr., 61 Fulton, New York
**NIAGARA FALLS METAL STAMP-**ing Works (Letters & Figures), Niagara Falls, N. Y. (See adv. index, end of book)
Noble & Westbrook Co., Hartford, Conn.
S. & I. Co., Springfield, Mass.
Sackmann Mfg. Co. (Inc.), Akron, O.
Schwerdtle Stamp Co., Bridgeport, Conn.
Smith, R. H. Mfg. Co., Springfield, Mass.
Stewart & Holiman, 201 B'way, New York
**VOELKNER & HARRY MANUFAC-**turing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

## 10899–Stamps (Steel Log)

Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
Northwestern Stamp Works, St. Paul, Minn.
Sackmann, F. A., Cleveljand, O.

## 10900– Stamps (Time)

Automatic Time Stamp Co. (Automatic), 160 Congress, Boston, Mass.
Baird Mfg. Co., 3145 N Halsted, Chicago, Ill.
Ellis Time Stamp Co., 85 5th av, Chicago, Ill.
Follett Time Recording Co., 675 Hudson, New York
Hanson, C. H., 44 Clark, Chicago, Ill.
Hoggson, S. H. & Co. ("Hoggson" Pocket), 106 Fulton, New York.
International Time Recording Co. of N. Y. ("Standard" Automatic), Endicott, N. Y.
Kastens, Henry (Time Dating), 418 W 27th, New York
Manhattan Time Recording Co., 308 Hudson, New York
Reliable Time Stamp Co., 3 W B'way, New York
Smith, R. H. Mfg. Co. (Air Cushion), 293 Main, Springfield, Mass.
Stambaugh, Wm. B. (Automatic & Electric), Metropolitan Life bldg, New York
Standard Electric Time Co. (Electric), Waterbury, Conn.
Stromberg Electric Mfg. Co., 1252 Marianna, Chicago, Ill.

## Stamps & Dies (Sheet Metal)

(See Dies, Stamping)

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## 10901—Stamps & Dies (Steel)

Adriance Machine W'ks, 254 Van Brunt, Brooklyn, N. Y.
Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hilles & Jones Co., Wilmington, Del.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Konigslow, E. Stamping & Tool Works, Cleveland, O.
Loyd, Jno. Co., 558 Water, New York
Perkins Machine Co., Warren, Mass.
Richard Mfg. Co. (Ltd.), Bloomsburg, Pa.
**VOELKNER & HARRY MANUFACturning Co., 282 Woodbridge E, Detroit, Mich.** (See adv. index, end of book)
W. & S. Mfg. Co., Worcester, Mass.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10902—Stanchions (Cattle)

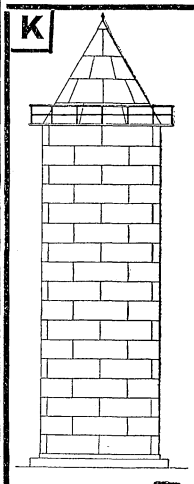
Barnard & Alexander, Forestville, Conn.
Bates & Swift Specialty Mfg. Co., Cuba, N. Y.
Bowen & Quick, Auburn, N. Y.
Boyle, James & Son ("Taylor"), Salem, O.
Crumb, W. B., Forestville, Conn.
Drew Elevated Carrier Co., Waterloo, Wis.
Foster, John, Rochester, N. Y.
Gehl Bros. Mfg. Co., West Bend, Wis.
Glor Bros. & Willis Mfg. Co., Utica, N. Y.
Hackney Mfg. Co., St. Paul, Minn.
Harris Mfg. Co., Salem, O.
Hunt, Helm, Ferris & Co. ("Star" Swing), Harvard, Ill.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Kent Mfg. Co., Fort Atkinson, Wis.
Louden Machinery Co., Fairfield, Ia.
Martin Automatic Carrier Co., Stevens Point, Wis.
Milwaukee Hay Tool Co., Milwaukee, Wis.
Mitchell Carrier Mfg. Co., Milwaukee, Wis.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Rochester Steel Stanchion Co., Rochester, N. Y.
Strickler Hay Tool Co., Janesville, Wis.
Toledo Plow Co., Toledo, O.
Wasson Stanchion Co., Cuba, N. Y.
Wilder-Strong Implement Co., Monroe, Mich.

## 10903— Stands Pipes

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
Birmingham Boiler Works, Birmingham, Ala.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Chicago Bridge & Iron Works, W 105th & Throop, Chicago, Ill.
Coatesville Boiler Works, Coatesville, Pa.
Cole, R. D. Mfg. Co., Newnan, Ga.
Connery & Co., 9th & Master, Phila., Pa.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Dover Boiler Works, Dover, N. Y.
**FAIRBANKS, MORSE & CO. (Railroad "Sheffield"),** 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

Freeman, S. & Sons Mfg. Co., Racine, Wis.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**HANKE IRON & WIRE WKS. (With** Ice-Proof Steps & Balconies), 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
Hartley Boiler Works, Montgomery, Ala.
Hodge Boiler Works, East Boston, Mass.
Hood, R. H. Co., 299 B'Way, New York
**HOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Keeler, E. Co., Williamsport, Pa.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)


K K
STAND PIPES
Chimneys Tanks
GENERAL PLATE CONSTRUCTION
THE KENNICOTT COMPANY
Sales Office:
Corn Exchange Bank Bldg., Chicago, Ill., U. S. A.
Works: Chicago Heights, Ill., U. S. A.
K K

Lake Erie Boiler Works, Buffalo, N. Y.
Lake Erie Engineering Works, Buffalo, N. Y.
**LANDON, E. R. IRON & WIRE** Works (With Ice-Proof Steps & Balconies) 166 N May, Chicago, Ill. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Logan Iron Works, 42 Commercial, Brooklyn,
Love Bros. (Inc.), Aurora, Ill. N. Y.
Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
Lombard Iron Works & Supply Co., Augusta, Ga.
Lyon's Boiler Works, De Pere, Wis.
McNeil Boiler Co., Akron, O.
McNeil, James & Bro. Co., Pittsburg, Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Meehan Boiler & Construction Co., Lowellville, O.
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
**MICHELMANN STEEL CONSTRUC**tion Co., Quincy, Ill. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHIN**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Munroe, R. & Sons Mfg. Corporation, 23rd & Smallman, Pittsburg, Pa.
Muskegon Boiler Works, Muskegon, Mich.
National Boiler & Sheet Iron Works, Indianapolis, Ind.
Odlum-Taylor Boiler Co., Memphis, Tenn.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Petty, J. K. & Co. (Lebanon Boiler Works), Lebanon, Pa.
Philadelphia Iron Works, 418 N 18th, Philadelphia, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Portland Co., Portland, Me.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Rockford Boiler & Steel Co., Rockford, Ill.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
Sharon Boiler Works, Sharon, Pa.
**SIMMONS, JOHN CO., 106 Centre, New** York. (See adv. index, end of book)
Sotter Bros., Pottstown, Pa.
Star Boiler & Sheet Iron Works, Denver, Colo.
Stebbins, W. L., Monadnock blk., Chicago, Ill.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Tippett & Wood, Phillipsburg, N. J.
Tofte Boiler & Sheet Iron Works, Houston, Tex.
U. S. Wind, Engine & Pump Co., Batavia, Ill.
Virginia Bridge & Iron Co., Roanoke, Va.
Walsh Boiler & Iron Works, Springfield, Mass.
Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.
Walsh & Weldner Boiler Co., Chattanooga, Tenn.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
Wickes Bros., Saginaw, Mich.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
York Mfg. Co., York, Pa.

## 10904—Stands (Annealing Box)

Leetonia Boiler Co., Leetonia, O.

## 10905—Stands (Armature Winding)

American General Engineering Co., 253 B'way, New York
Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N.Y.
Device Improvement Co. ("Peerless"), Han-
Ridlon, Frank Co., Boston, Mass. over, Pa.
Smith & Wallace, Woburn, Mass.

## 10906—Stands (Automatic Ground Throw)

Morden Frog & Crossing Works (For Railroads), Commercial Bank bldg, Chicago, Ill.

## 10907— Stands (Bicycle)

Burgess Machine Co., New Haven, Conn.
City Forge & Iron Works, Dayton, O.
Lane Bros. Co., Poughkeepsie, N. Y.
**MYERS, F. E. & BRO. ("Myers"),** Ashland, O. (See adv. index & branch offices, end of book)
Phillips, A. J. Co., Fenton, Mich.

## 10908—Stands (Die Sinking)

Victor Tool Co. ("Victor Universal"), Waynesboro, Pa.

## 10908a— Stands (Glass)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 10909—Stands (Indicator)

**CHAIN BELT CO. (Malleable Iron),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 10910—Stands (Magnet Wire Reel)

Device Improvement Co. ("Peerless"), Hanover, Pa.

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## 10911—Stands (Micrometer)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 10912—Stands (Mule Pulley)

Bond Foundry & Machine Co., Manheim, Pa.
**CALDWELL, H. W. & SON CO. (Adjustable),** Western av & 17th, Chicago, Ill. (See adv. index & branch offices, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Case Mfg. Co., Columbus, O.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Grammes, L. F. & Sons, Allentown, Pa.
**Jones & Laughlin Steel Co., Pittsburg, Pa.**
Medart Patent Pulley Co., St. Louis, Mo.
Poole Engineering & Machine Co., **Baltimore, Md.**
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 10913— Stands (Music)

Streator Metal Stamping Co. (Also Horn Stands), Streator, Ill.

## 10914— Stands (Pump)

**MYERS, F. E. & BRO. ("Myers," "Ashland," & "Defiance" Ratchet Handle),** Ashland, O. (See adv. index & branch offices, end of book)

## 10915—Stands (Sad Iron)

American Foundry & Mfg. Co., St. Louis, Mo.
Chicago Hardware Foundry Co., North Chicago, Ill.
Fanner Mfg. Co., Cleveland, O.
Franklin Specialty Co., Reading, Pa.
Loetscher-Ryan Mfg. Co., Dubuque, Ia.
Ober Mfg. Co., Chagrin Falls, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Stover Mfg. Co., Freeport, Ill.
Wrightville Hardware Co., Wrightville, Pa.

## 10916—Stands (Umbrella)

Andrews Wire & Iron Works, Rockford, Ill.
Central Stamping Co. (Cylinder), 174 Fulton, New York
Cincinnati Iron Fence Co., Cincinnati, O.
Erie Art Metal Co., Erie, Pa.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)

## 10917—Stands (Water Cooler)

Andrews, A. H. Co. (Metal), 174 Wabash av, Chicago, Ill.

## 10918— Stannate Soda

Cochrane Chemical Co., Boston, Mass.

## 10919— Staple Mfrs.

Acme Staple Co., 500 N 12th, Phila. Pa.
**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
**AMERICAN STEEL & WIRE CO.** (Fence, Poultry Netting, etc.), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Brewer Bros. (Bar, Bolt, Bow, Latch, Mirror or Plate & Round), 614 Filbert, Phila., Pa.
Central City Bolt Co. (Nutted), Syracuse, N. Y.
Cleveland Tack Works, Cleveland, O.
Cobb & Drew, Plymouth, Mass.
Colorado Fuel & Iron Co. (Wire), Denver, Col.
Crawfordsville Wire & Nail Co. (Fence), Crawfordsville, Ind.
Grand Crossing Tack Co. (Wire), S Chicago av & 79th, Chicago, Ill.
Griswold Co. (Wire), Sterling, Ill.
Hazel Atlas Glass Co., Wheeling, W. Va.
Holland Mfg. Co. (Steel Spring, Barbed Blind, Hoop & Light Clamp, Poultry Netting, Butter Tub or Clamp, Basket Handle, Speaking Tube & Pope, etc.), Baltimore, Md.
Humason & Beckley Mfg. Co., New Britain, Conn.
Igoe Bros. (Fence & Poultry Netting), 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Indiana Steel & Wire Co. (Wire Fence), Muncie, Ind.
Jones & Laughlin Steel Co. (Plain & Galvanized), Pittsburg, Pa.
Kelly Nail & Iron Co. (Wire), Ironton, O.
Kokomo Steel & Wire Co. (Fence, etc.), Kokomo, Ind.
Lawrence Bros. (Hasp), Sterling, Ill.
McKinney Mfg. Co. (Wrought), N S, Pittsburg, Pa.
Milwaukee Tack Co. (Hoop, Clamp, Poultry, Netting, Basket Handle, Wire Cloth, etc.), Milwaukee, Wis.
Morgan Spring Co., Worcester, Mass.
National Mfg. Co. (Wrought Steel Hasp, etc.), Sterling, Ill.
Norton Iron Works (Inc.), (Polished & Galvanized Wire), Ashland, Ky.
Oliver Iron & Steel Co. (Hame), Pittsburg, Pa.
Parker Wire Goods Co. (Wire), Worcester, Mass.
Pickering, Ridgeway S. (Hoop Staples), Sharon Hill, Pa.
Pittsburg Steel Co. (Wire Fence, & Poultry Netting, Pittsburg, Pa.
Plymouth Mills, Plymouth, Mass.
Pratt, Wm. E. Mfg. Co. (Barbed, Blind, Netting, Bed Spring), 91 Lake, Chicago, Ill.
Reading Hardware Co. (Wrought), Reading, Pa.
Reading Screw Co. (Wire, All Kinds), Norristown, Pa.
**RICHARDS - WILCOX MFG. CO.** (Whole & Half Bar), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Rockwell Clough Co. (Wire). Alton, N. H.
Russell, Burdsall & Ward Bolt & Nut Co. (Part Broom, Barbed Blind, Bed Spring, etc.), Port Chester, N. Y. & Rock Falls, Ill.
Sargent & Co., New Haven, Conn., & 94 Centre, New York
Southern Iron & Steel Co. (Wire Fence, etc.), Birmingham, Ala.
St. Louis Wire & Iron Co., St. Louis, Mo.
Stanley, George W. Co. (Barbed, Blind & Hoops), Belleville, Ill.
**STANLEY WORKS, New Britain,** Conn. (See adv. index & branch offices, end of book)
Superior Tack & Nail Co. (Coppered Basket Handle Hoop, Galvanized Poultry Netting, etc.), Penn Yan, N. Y., & Derby, Conn.
Titchener, E. H. & Co. (Blind, etc.), Binghamton, N. Y.
Tower Mfg. Co. (Wire Clamp Electricians. Broom, Hoop, Harness, etc.), Commerce & Elm, Cincinnati, O., & Madison, Ind.
Townsend, G. G. (Barrel & Keg Hoop), Winchendon, Mass.
Wickwire Bros. (Wire), Cortland, N. Y.
Wilcox, Crittenden & Co. (Wrought Iron), Middletown, Conn.
Williamsport Staple Co., Williamsport, Pa.
Wire Goods Co. (Wrought Steel, Steel Wire. Tinned & Galvanized), Worcester, Mass.
Wire Specialty Works, 551 Fulton, Chicago, Ill.
**WRIGHT WIRE CO. (Wire of all** Kinds), Worcester, Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co. (Wire, Bright Fence, etc.), Youngstown, O.

## 10920— Staples (Fence)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Cobb & Drew, Plymouth, Mass.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Griswold Co., Sterling, Ind.
Igoe Bros., Brooklyn, N. Y., & Newark, N. J.
Indiana Steel & Wire Co., Muncie, Ind.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kokomo Steel & Wire Co., Kokomo, Ind.
Milwaukee Tack Co., Milwaukee, Wis.
Morgan Spring Co., Worcester, Mass.
Norton Iron Works, Ashland, Ky.
Pittsburg Steel Co., Pittsburg, Pa.
Southern Iron & Steel Co., Birmingham, Ala.
Titchener, E. H. & Co., Binghamton, N. Y.
Wickwire Bros., Cortland, N. Y.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, O.

## 10921—Staples (Insulated)

Blake Signal & Mfg. Co. ("Blake"), Boston, Mass.
Commercial Electrical Supply Co., St. Louis, Mo.
Goldmark, Jas. ("Cross"), 81 Warren, New York
Insulating Saddle Staple Co., Boston, Mass.

## 10922— Staples (Nutted)

Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Harvey Forging Co., Racine, Wis.
**Kansas City Bolt & Nut Co., Kansas City, Mo.**
Lamson & Sessions Co., Cleveland, O.
Oliver Iron & Steel Co., Pittsburg, Pa.
Reno Mfg. Co., Erie, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y., & Rock Falls, Ill.
Stanley, Geo. W. Co., Belleville, Ill.
Upson Nut Co., Cleveland, O.

## 10923— Staples (Stop)

National Sheet Metal Co., Peru, Ill.

## 10924— Starch Mfrs.

**American Maize Products Co., 135 William, New York**
**Anthony, Joshua (Corn), Ushers, N. Y.**
Arabol Mfg. Co. (Paper Makers, etc.), 100 William, New York
**Aroostock Produce Co., Houlton, Me.**
**Aroostock Valley Starch Co., Fort Fairfield, Me.**
**Atlantic Starch Works, Westport, Conn.**
Atlas Cereal Mfg. Co., Camden, N. J.
**Barker, H. & Co., Boston, Mass.**
Barnett, Wm. & Sons, Philadelphia, Pa.
Bloede, Victor G. Co., Baltimore, Md.
**Cambridge Starch Co., Cambridge, Minn.**
**Camden & Philadelphia Soap Co., Camden, N. J.**
Carter, J. L., Ellenburg Depot, N. Y.
Celluloid Starch Co., 315 Fourth av, New York
**Cleveland & Ludwig, Houlton, Me.**
Columbia Starch Co., 347 Greenwich, New York
Corn Products Refining Co. ("Eagle" Finishing, "Argo" Family, etc.), 26 B'way, New York
**Crystal Springs Paste Co., Boston, Mass.**
**Defiance Starch Co., Omaha, Neb.**
**Douglas & Co., Cedar Rapids, Ia.**
**Eddy & Eddy Mfg. Co. (Corn), St. Louis, Mo.**
**Electric Lustre Starch Co., Boston, Mass.**
**Faultless Starch Co., Kansas City Mo.**
**Ford, J. B. & Co., Wyandotte, Mich.**
Frost & Rees, Mars Hill, Me.
**Greeley Starch & Potato Co., Greeley, Col.**
**Hayward, G. B., Ashland, Me.**
**Hubinger, J. C. Bros. Co., New Haven, Conn., & Keokuk, Ia.**
**Huron Milling Co., Harbor Beach, Mich.**
Keever Starch Co., Columbus, O.
Kohnstamm & Co., 87 Park pl, New York
Ludwig, L. O., Cary, Me.
Lundy, John, Fort Fairfield, Me.
Martin, Jos. & Son, Van Buren, Me.
Michigan Starch Co., Traverse City, Mich., & 90 W. B'way, New York
**Minnesota Potato Starch Co., Anoka, Minn.**
**Monroe County Chemical Co., Fairport, N. Y.**
**Moseley-Horne Co., Keokuk, Ia.**
**National Gum & Mica Co., 502 W. 45th, New York**
**National Starch Co., Chicago, Ill., & 26 B'way, New York**
Noyes, Chas. E., Limestone, Me.
Phair, C. F. A., Presque Isle, Me.
Phair, Thos. H., Presque Isle, Me.
**Piel Bros. Starch Co., Indianapolis, Ind., & 105 Hudson, New York**
**Piper & Clark, Sherman Mills, Me.**
**Pritchard, T. G. Co. (Corn), Baltimore, Md.**
**Royal Chemical Co., Phenix, R. I.**
**St. Agatha Starch Co., St. Agatha, Me.**
**Speare's, Alden Sons Co. (Wheat & Corn), Boston, Mass.**
**Staley, A. E. Mfg. Co. (Corn), Baltimore, Md.**
Stein, Hirsh & Co., 2841 S Ashland av, Chicago, Ill., & New York
**Union Starch & Refining Co., Edinburg, Ind.**
**Watson, John, Houlton, Me.**
**Waupaca Starch Co., Waupaca, Wis.**

## 10925— Stars (Iron)

Barnett, Oscar Foundry Co. (For Rumbling), Newark, N. J.
Cleveland Nickel Works (Hard), Cleveland, O.
Dayton Malleable Iron Co., Dayton, Ohio
**OHIO MALLEABLE IRON CO. (Hard** Iron Stars for Tumbling Mills), Columbus, O. (See adv. index, end of book)
**OSBORN MFG. CO. (Hard Iron for** Rumbling), 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)
Sly, W. W. Mfg. Co., Cleveland, O.

## 10926—Starters (Fire Pump)

**CUTLER-HAMMER MFG. CO. (Electric),** Milwaukee, Wis. (See adv. index & branch offices, end of book)

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## 10927—Stationers' Rubber Sundries

American Hard Rubber Co. (Hard Rubber), 9 Mercer, New York
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Co., Cleveland, O.
Davidson Rubber Co., Boston, Mass.
Davol Rubber Co., Providence, R. I.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Hodgman Rubber Co., 806 B'way, New York
Seamless Rubber Co., New Haven, Conn.
Tyer Rubber Co., Andover, Mass.

## 10928—Stationers' Specialities

(See also Specific Article Required)

Adams Mfg. Co. (Blotter Baths), 4 S 20th, Phila., Pa.
Burr Index Co. (Index Cards), Hartford, Conn.
Chicago Business System Co. (Index Cards, Interchangeable), Chicago, Ill.
Clark & Baker Co. (Index Cards, Metallic), 258 Canal, New York
Cushman & Denison Mfg. Co. ("Capitol" Ink Stands & Other Specialties), 240 W 23d, New York
Detroit Coin Wrapper Co., Detroit, Mich.
Farnham, A. B. Printing & Stationery Co. (Desk Ticklers & Other Specialties), Minneapolis, Minn.
Kimpton, Edw., 60 John, New York
King, W. V. Supply Co. (Stenographic Tabulators), St. Louis, Mo
Modern Mfg. Co. (Book Corner Protectors), P. O. Box 2854, Phila., Pa
National Finger Pad Co. (Moisteners), Manchester, N. H.
Sengbusch Self-Closing Inkstand Co., Milwaukee, Wis.
Tatum Samuel C. Co., Cincinnati, O.
Western Clock Co. ("Rajah" Paper Weight Clock), La Salle, Ill.

## 10929—Statuary & Monuments White Bronze)

American Memorial Co., Bridgeport, Conn.
Monumental Bronze Co., Bridgeport, Conn.
Philadelphia White Bronze Monument Co., 23 S 17th, Phila., Pa.

## 10930— Staybolts

Flannery Bolt Co. ("Tate" Flexible), Frick bldg, Pittsburg, Pa.
Flexible Bolt Co. ("Breakless" Flexible), Pittsburg, Pa.
Hall's, Samuel Sons, 229 W 10th, New York
Hendricks Bros. (Copper), 49 Cliff, New York
Hoopes & Townsend Co. (Hollow & Solid Steel), 1330 Buttonwood, Phila., Pa.
Independent Rolling Mill Co. (Solid & Hollow), Cuyahoga Falls, O.
Jones, B. M. & Co. (Inc.) (Breakless), 141 Milk. Boston. Mass., & 141 B'way, New York
St. Louis Screw Co., St. Louis, Mo.
Thompson, Chas. A. ("Acme" Flexible), 516 N 3d, St. Louis, Mo.

## 10931—Staybolts (Radial)

Flannery Bolt Co., Pittsurg, Pa.

## 10932— Stays (Box)

Nashua Gummed & Coated Paper Co., Nashua, N. H.

## 10933— Stays (Door)

**RICHARDS - WILCOX MFG. CO.** ("Richards" Non-Sag), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 10934— Stays (Fence)

B. B. Fence Co. ("B. B."), Racine, Wis.
Crescent Metallic Fence Stay Co., Covington, O.
Cyclone Woven Wire Fence Co., Cleveland, O.
Globe Fence Co., Delevan, N. Y.
Hollinger Fence Co. (Wire Steel), Greenville, O.
Simmons & Sons, Spokane, Wash.

## 10935—Stays (Hand Rail)

Richards, I. C. Hardware Co. (Wrought Iron), Winsted, Conn.

## 10936—Stays (Stair Rail)

Brewer Bros. (Wrought, Screw, Drive or on Plate), 614 Filbert, Phila., Pa.

## 10937—Stays (Transom)

Yale & Towne Mfg. Co., 9 Murray, New York

## 10938— Steam Feeds

**ALLIS-CHALMERS CO. (Twin Engine &** Direct Acting), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Hill, W. E. & Co., Kalamazoo, Mich.
Manistee Iron Works Co. (Twin Engine, for Saw Mill Carriage), Manistee, Mich.

## Steam Fitters

(See Heating Contractors, Steam & Hot Water)

## Steam Fitters (High Pressure)

(See Piping, High Pressure)

## 10939—Steam Fitters' Supplies (Jobbers')

(The Firms in Plumbers' Supplies, Jobbers, are Duplicated under this Trade)
(For Manufacturers of Steam Specialties see Specific Article Required)

### ALABAMA.

ANNISTON—Anniston Supply Co.
BIRMINGHAM—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Moore & Handley Hdw. Co.
Young & Vann Supply Co.
MOBILE—American Supply Co.
Cunningham Hardware Co.
Mellett, Richard
Southern Hardware & Supply Co.
MONTGOMERY—Lum Machinery Co.
TALLADEGA—Michael Supply Co.

### ARIZONA TERRITORY.

NOGALES—Roy & Titcomb
PHOENIX—Thayer, Ezra W.

### ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co.
FORT SMITH—Atkinson-Williams Hardware
Speer Hardware Co.
LITTLE ROCK—Crane Co. (Of Chicago, Ill.), Est. 1855. (See adv. index, end of book)
Rose-Lyon Hardware Co.
Wehrfritz, E. C. Machinery & Supply Co.
PINE BLUFF—Fox Bros. Hardware Co.

### CALIFORNIA.

ARCATA—Arcata Hardware Co.
BAKERSFIELD—Fairbanks, Morse & Co.
FRESNO—Kutner-Goldstein Co.
GRASS VALLEY—Grass Valley Hardware Co.
LOS ANGELES—Baker & Hamilton
Boynton, H. R. & Co.
Busch, A. H. Co., 150 N Los Angeles
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (of** Chicago), 136 Los Angeles. (See adv. index, end of book)
Harper & Reynolds Co., 152 N Main
Henshaw, Bulkley & Co.
Herron, R. H. Co., 214 N Los Angeles
Holbrook, Merrill & Stetson (of San Francisco)
Montague, W. W. & Co. (Inc.), (of San Francisco), 122 N Los Angeles
Pacific Coast Mfg. Co., 126 S Los Angeles
Pacific Hardware & Steel Co.
Smith-Booth-Wher Co.
Tay Co.
Union Hardware & Metal Co., 411 E 1st
Union Well Supply Co.
Warren & Bailey Mfg. Co., 359 N Main
OAKLAND—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
PASADENA—Pasadena Hardware Co.
SACRAMENTO—Holbrook, Merrill & Stetson
SAN DIEGO—Western Metal Supply Co.
SAN FRANCISCO—Baker & Hamilton (Inc.), 3d & Berry
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Dalziel-Moller Co., 543 Mission
Dunham, Carrigan & Hayden Co., 131 Kansas
**FAIRBANKS, MORSE & CO. (of** Chicago), 158 1st. (See adv. index, end of book)
Holbrook, Merrill & Stetson, 6th & Townsend
Garrett, W. T. & Co., Fremont & Natoma
Marwedel, C. W., 258 9th
Montague, W. W. & Co., 557 Market
Moore, Chas. C. & Co., 99 1st
O'Brien, Michael, 142 1st
Pacific Hardware & Steel Co., s w c 7th & Tay Co., 617 Mission
Townsend
Wagner, Jos. Mfg. Co., 165 Beale
Woodin & Little
SAN JOSE—Stock, Jno. Sons
STOCKTON—Austin Bros.

### COLORADO.

CRIPPLE CREEK—Cripple Creek Mine & Supply Co.
DENVER—**FAIRBANKS, MORSE & CO.** (of Chicago), 1600 17th. (See adv. index, end of book)
Hendrie & Bolthoff Mfg. & Supply Co.
Mine & Smelter Supply Co., 17th & Blake
O'Fallan, M. J. Supply Co., 1518 Wynkoop

### CONNECTICUT.

BRIDGEPORT—Mills, L. H., 32 Middle
DANBURY—Danbury Hardware Co.
Hoyt, H. W. Co.
DERBY—Hallock, F. C. Co.
HARTFORD—Bidwell, J. C. & Co.
Hartford Mill Supply Co., 168 Pearl
Plimpton & Hills Corporation
MERIDEN—Cashen, Keegan & Cashen
MIDDLETOWN—Hale & Kelsey
Mills, Lyman D.
NAUGATUCK—Page, Jno. M. & Co.
NEW HAVEN—Foskett & Bishop Co., River c Blatchley av
Mersick, C. S. Co., 292 State
Peck Bros. & Co., 125 Chestnut
Sheahan & Groark, 285 State
NEW LONDON—Darrow & Comstock Co.
NORWALK—Jones & Hotchkiss Co.
NORWICH—Barstow, J. P. & Co.
Brown, Robt.
PUTNAM—Putnam Foundry & Machine Corp.
TORRINGTON—Agard Hardware Co.
Perkins, E. A. Electric Co.
WATERBURY—Barlow Bros Co.
Waterbury Plumbing Supply Co.

### DELAWARE.

WILMINGTON—Delaware Electric & Supply Co.
Industrial Supply Co.
**SHAW, BENJ. F. CO. (See adv. index, end of book)**
Speakman Supply & Pipe Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—McCubbin, C. J. Co., 423 10th N. W.
Mitchell, John Jr., 1000 Penn av, N. W.
Schafer, E. G. & Co., 424 11th, N. W.
Somerville, Thos. & Sons, 322 13th, N. W.

### FLORIDA.

JACKSONVILLE—Christopher, Jno. G. Co.
Florida Hardware Co. (Inc.)
Hubbard, S. B. Co. (Inc.)
KEY WEST—Curry's, Wm. Sons
OCALA—Masters, H. B. Co.
ORLANDO—South Florida Foundry & Machine Works

### GEORGIA.

AMERICUS—Sheffield-Huntington Co.
ATLANTA—Beck & Gregg Hardware Co.
Cotton States Belting & Supply Co.
Crane Co. (Of Chicago, Ill.) Est. 1855. (See adv. index, end of book)
General Supply Co.
AUGUSTA—Lombard Iron Works & Supply Co.
MACON—Schofield's, J. S. Sons Co.
ROME—Battey Machinery Co.
SAVANNAH—Rourke, Jno. & Sons.
Weed, J. D. & Co.
WAYCROSS—Harley, P. N. Hardware Co.

### IDAHO.

BOISE—Carlson-Lusk Hardware Co.
Idaho Hardware & Plumbing Co.

### ILLINOIS.

BATAVIA—U. S. Wind Engine & Pump Co.
BELLEVILLE—Karr Supply Co.
BLOOMINGTON—Keiser-Van Leer Co.
BUSHNELL—Bushnell Pump Co.

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CAIRO—Woodward Hardware Co.
CHICAGO—Adkins, Young & Allen Co., 109 N Canal
Advance Packing & Supply Co., 123 Franklin
Allen, W. D. Mfg. Co., 151 Lake
Iln 282 Mich. av
American Radiator Co., 282 Michigan av
Baker & Smith Co., 83 5th av
Beggs, Thos., 59 Dearborn
Cameron, Schroth, Cameron Co., 106 E Michigan
**CARPENTER, GEO. B. & CO., 202** S Water. (See adv. index, end of book)
Channon, H. Co., 28 Market
Chicago Engineer Supply Co., 112 Lake
Chicago Heater & Supply Co. (Heaters, Radiators & Supplies), 56 Dearborn
Clow, Jas. B. & Sons, Franklin & Harrison
Cook & Chick Co., 18 E Kinzie
Crane Co. (Est. 1855), 1214 S Canal, (See adv. index, end of book)
Crawford Co., 838 S Canal
Crerar, Adams & Co., 239 E Erie
Davies Supply Co., 412 W Ontario
Deschauer, Stephen, 1345 Blue Island av
Douglass, J. E. 40 Dearborn
**FAIRBANKS, MORSE & CO.,** 481 Wabash av. (See adv. index, end of book)
Federal-Huber Co., Halsted & Fulton
**GORTON & LIDGERWOOD CO.** (Boilers, Radiators, Valves, etc.), Fisher bldg. (See adv. index, end of book)
Gould Co., Ohio & Franklin
Hardin, Jno., 4543 Cottage Grove av
Henion & Hubbell, 223 N Jefferson
Hennebohle, F., 9408 S Chicago & Erie avs
Hills, McCanna Co., 153 W Kinzie
Hodgart & Co. (Valves, Steam Traps, Separators, Boiler Feeders, etc.), 150 Michigan av
Holland Radiator Co., 38 Dearborn
Illinois Malleable Iron Co., 1801 Diversey
Kellogg-Mackay Co., 403 W 18th boul
Kelly & Jones Co. (of Pittsburg, Pa.), 59
Kroeschell Bros. Co., 440 W Erie Clark
Limbert, Geo. B. & Co., 559 Fulton
McCrea, Jas. & Co., 558 W Wash'n
McMaster-Carr Supply Co., 174 Lake
Manning, Maxwell & Moore, 111 N Canal
Mott, J. L. Iron Works, Merchants Loan & Trust bldg
National Plumbing & Heating Supply Co., 6044 S State
Norman, C. Erwin & Co., 177 N Canal
Reed Mfg. Co., 121 N Canal
Scott Valve Co., 231 Randolph
Seehausen, Wehrs & Co. (Also Engineers' Supplies), 45 Franklin
Sorge, A. J. & Co., 98 Jackson boul
Steamfitters Supply Co., 403 Dearborn
Street, R. R. & Co., 184 Wash'n
Walsh, W. J. & Co., 163 W Illinois
Weir & Craig Mfg. Co., 2421 Wallace
Western Kieley Steam Specialty Co., 112 Lake
Western Plumbing Supply Co., 119 N Des-
Western Valve Co., 179 Lake plaines
Whitney & Ford, 4325 College Grove av
DECATUR—Field & Storb Co.
Oakes, Wm. L.
ELGIN—Barclay, D. F.
JOLIET—Barrett Hardware Co.
MOLINE—Moline Heating & Construction Co.
PEORIA—Kinsey & Mahler Co.
Nailon Bros. Co.
PERU—Brunner, Chas.
QUINCY—Best, E., Plumbing & Steam Heating
ROCKFORD—America Heating Co. Co.
Rockford Brass Works
SANDWICH—Enterprise Windmill Co.
SOMONAUK—California Windmill Co.

## INDIANA.

ANDERSON—May Supply Co.
BRAZIL—Crawford & McCrimmon Co.
BUTLER—Butler Co.
EVANSVILLE—Evansville Leather Belting Co.
Grote Mfg. Co.
GREENSBURG—Watson, W. A.
INDIANAPOLIS—Central Supply Co.
**FAIRBANKS, MORSE & CO. (of** Chicago). (See adv. index, end of book)
Hide, Leather & Belting Co., 227 S Meridian
Indiana Supply Co.
Indianapolis Belting & Supply Co. (J. W. Faust, Prop.), 18 S Capitol av
LOGANSPORT—Hildebrandt, John J. Co.
MARION—Marion Hardware Co.
MICHIGAN CITY—Staiger Hardware Co.
MUNCIE—Keiser, Geo. & Co.
Muncie Gas Engine & Supply Co.
NOBLESVILLE—Clark Supply House
RICHMOND—Jones Hardware Co. (Jobbers)
SOUTH BEND—South Bend Supply Co.
TERRE HAUTE—Crane Co. (of Chicago). Est. 1855. (See adv. index, end of book)
Freitag, Weinhardt & Co.
Watson's, D. W. Sons Co.
UNION CITY—Knapp Supply Co.

## IOWA.

CEDAR RAPIDS—Chandler Pump Co.
Fawcett, C. E.
Iowa Windmill & Pump Co.
Kubias, F. & Co.
DES MOINES—Beckman Bros.
Crane Co. (Of Chicago, Ill.) Est 1855. (See adv. index, end of book)
Globe Machinery & Supply Co.
DUBUQUE—Deckert, W. D. Co.
Kretschmer Mfg. Co.
McDonald, A. Y. Mfg. Co.
Smedley Steam Pump Co.
FORT DODGE—Leighton Supply Co.
KEOKUK—Sutton, Wm. P.
MUSCATINE—Barry Mfg. Co.
OSKALOOSA—Ideal Heating Co.
Iowa Mfg. Co.
SIOUX CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

## KANSAS.

ATCHISON—Searles Bros. Windmill & Pump
Thayer Supply Co. Works
FORT SCOTT—Penniman, A. C. & Son
LEAVENWORTH—Great Western Mfg. Co.

## KENTUCKY.

ASHLAND—Ashland Foundry & Machine Works
Henderson Hdw. Co.
LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W
Cowan, Andrew & Co., 435 W Main Main
**FAIRBANKS, MORSE & CO. (of** Chicago), 519 Main. (See adv. index, end
Laib Co., 439 W Main of book)
McWilliams, Jos. & Co., 719 W Market
Pyne, W. T., Mill & Supply Co., 1301 W
Vogel, P. A. & Sons, 135 E Main Main
Waters-Garland Co., 433 W Main
OWENSBORO—Owensboro Mill Supply Co.

## LOUISIANA.

BATON ROUGE—Doherty Hardware Co.
NEW ORLEANS—Ahrens & Ott Mfg. Co. (of Louisville, Ky.), Baronne c St. Joseph
Connell, J. D. Iron Works Co.
Gibbens & Stream, 213 Canal
Haubtman & Loeb Co. (Ltd.), 222 S Peters
Kittredge-Waters Supply Co.
Manion & Co., 622 Baronne
Menge, J. H. & Sons
Murphy, John H., 643 Magazine
Payne & Joubert, 423 Carondelet
Stauffer-Eshleman & Co., 511 Canal
Woodward, Wight & Co.
SHREVEPORT—Henderson, W. K.

## MAINE.

BANGOR—Babb, C. H. & Co.
Leighton Plumbing & Heating Co.
Union Iron Works
BIDDEFORD—Anthoine, Geo. A.
DEXTER—Fay & Scott (Inc.)
FAIRFIELD—Donnelly, D. B.
LEWISTON—Hall & Knight Hardware Co.
Pratt, T. Lloyd
Stetson, Jos. H. Co.
PORTLAND—Blake, W. L. & Co. (Inc.), 79 Commercial
Plummer, C. M. & H. T., 48 Union
Portland Stove Foundry Co., 39 Kennebec
Smith & Abbott Co.

## MARYLAND.

BALTIMORE—Adt, Jno. B., 332 N Holliday
Aumen Machinery & Supply Co., 324 N Holliday
Basshor, Thos. C. Co., 28 Light
Carey Machinery & Supply Co. (Inc.), 121 E Lombard
Central Metal & Supply Co., 611 E Lombard
Crane Co. (of Chicago). Est. 1855. (See adv. index, end of book)
Crook-Horner Supply Co., 17 E Pratt
Crooks-Kries & Co.
Cuyler & Mohler, 611 William
Eastern Railway Supply Co.
Enterprise Steam & Hot Water Heating Co., 107 E Lombard
Flynn & Emrich Co.
Robertson, Jas. Mfg. Co., 14 S Hanover
Southern Supply Co.
Spedden Supply Co., 913 S B'way
Stebbins, Wallace & Sons, Charles and Lombard
Wallace & Gale, 115 S Gay
Wood, W. E. Co., 18 N Howard
CUMBERLAND—McKaig, Merwin
Maryland Supply Co.

## MASSACHUSETTS.

ADAMS—Weston, Leroy A.
BOSTON—Anderson, G. P. (Kieley & Mueller's Specialties), 163 Oliver
Boston Engineers' Supply Co., 56 Purchase
Boston Steam Specialty Co., 168 Congress
Braman, Dow & Co., 239 Causeway
Brown-Wales Co., 69 Purchase
Chesterton, Arthur W. & Co., 64 India
Crane Co. (of Chicago). Est. 1855. (See adv. index, end of book)
Cunningham, J. H. Co., 269 Congress
Dalton-Ingersoll Mfg. Co., 169 High
Gallison, Wm. H. Co., 36 Oliver
Gilchrist, Geo. E. Co., 106 High
Gurney Heater Mfg. Co. (Heating Apparatus, etc., Supplies), 188 Franklin
Hercules Iron & Supply Co., 427 Commercial
Hubbard, W. B. & Sons Co., 176 Oliver
Jarvis Engineering Co., 61 Oliver
Morse, Tenny & Co., 143 Pearl
Morton, Andrew M. & Co., 25 Wash'n
New England Iron Works Co. (Jobbers), Summer, B & Fargo
Perrin, Seamans & Co., 57 Oliver
Perry, J. P. & Co., 195 Devonshire
Pierce, Butler & Pierce Mfg. Co. (of Syracuse, N. Y.), 61 High
Roberts, Jas. H. & Co., 137 Portland
Smith & Anthony Co., 48 Union
Walker & Pratt Mfg. Co., 33 Union
Walworth Mfg. Co., 132 Federal
Webb, F. W. Mfg. Co., 52 Elm
FALL RIVER—Fall River Steam & Gas Pipe
Miller, Nathan Corporation
GARDINER—Royal Steam Heater Co.
HAVERHILL—Mills & McClintock
HOLYOKE—Holyoke Valve & Hydrant Co.
Russell, J. & Co.
LOWELL—Barker, H. R. Mfg. Co.
Farrell & Conaton
Middlesex Machine Co.
LYNN—Bourneuf, Louis Corporation
Trefethern, Frank L.
MIDDLEBORO—Pierce, Thos. W.
MILFORD—Ellis, Clark & Sons
NEW BEDFORD—New Bedford Boiler & Machine Co.
NORTH ATTLEBORO—Hall, Wm. M.
PITTSFIELD—Robbins, Gamwell & Co.
SPRINGFIELD—Gilbert & Barker Mfg. Co.
Hitchcock Supply Co. (Inc.)
New England Plumbing Supply Co.
Oliver & Howland C.o
**WYCKOFF & LLOYD CO., 19** Worthington. (See adv. index, end of
TAUNTON—Dighton Foundry Co. book)
WESTFIELD—Smith, H. B. Co.
WORCESTER—Braman, Dow & Co. (of Boston, Mass.
Burlingame, A. Co.
Callahan, J. W. & Son
Central Supply Co.
Washburn & Garfield Mfg. Co.

## MICHIGAN.

BAY CITY—Jennison Hardware Co.
Styninger, Jno. A.
CALUMET—Carlton Hardware Co.
DETROIT—American Radiator Co.
Anderson, Kenneth Mfg. Co., 35 E Atwater
Detroit Heating & Lighting Co., 49 Division
Detroit Lead Pipe & Sheet Lead Works
Detroit Ship Building Co. (Brass Dept.)
**FAIRBANKS, MORSE & CO. (of** Chicago), 89 Jefferson. (See adv. index, end of book)
Harvey's, A. Son's Mfg. Co. (Ltd.), 22 1st
McRae & Roberts Co., 227 Campbell av
Muzzy-Lyon Co., 149 W. Larned
Park & McKay Co., 55 Bagley av
Roe, J. A. Co., 12 E Atwater
Sales, Murray W. & Co., 76 Jefferson av
Strelinger, Chas. A. Co., 98 Bates
**VOELKNER & HARRY MANU-**facturing Co., 282 Woodbridge E, (See adv. index, end of book)
Walker Mfg. & Supply Co., 136 W Larned

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GRAND RAPIDS—Ferguson Supply Co. (Ltd.)
Grand Rapids Supply Co.
Leitelt, Adolph Iron Works
Sproul & McGurrin
Barcley, Ayers & Bertsch Co.
JACKSON—General Distributing Co.
KALAMAZOO—Dutton, C. H. Co.
Smith & Pomeroy Windmill Co.
LANSING—Michigan Supply Co.
MENOMINEE—Emerson-Corbin Supply Co.
MUSKEGON—Howden, J. J. Co.
Towner Hardware Co.
SAGINAW—Eureka Heating & Ventilating Co. (C. W. Light, Prop.)
Morley Bros. (Inc.).
Saginaw Hardware Co.
Wickes Bros.
SAULT SAINTE MARIE—Soo Hardware Co.

## MINNESOTA.

DULUTH—Duluth Plumbing Supplies Co.
Northern Hardware Co.
Marshall-Wells Hardware Co.
MINNEAPOLIS—American Radiator Co.
Central Supply Co., 312 S 3d
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Engineering & Steam Supplies Co., 227 S 3d
**FAIRBANKS, MORSE & CO. (of** Chicago), 220 Nicollet av. (See adv. index, end of book)
Gillmore, D. M. Co., 515 S 3d
Kellogg-Mackay Co., 100 2d, S
ST. PAUL—Crane & Ordway Co., 5th & Rosabel
**FAIRBANKS, MORSE & CO. (of** Chicago), 234 E 3d. (See adv. index, end of book)
Robinson, Cary & Sands Co., 4th cor Wabasha
Western Supply Co., 5th & Sibley
STILLWATER—Bronson, J. N.
WINONA—Green, Thos. J.
Toye, Michael

## MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
HATTIESBURG—Watkins Mach. & Fdy. Co.
NATCHEZ—Feltus Bros.
Schwartz & Stewart
VICKSBURG—Hoffman, Louis Hardware Co.
YAZOO CITY—Crane-Hamel Hardware Co.

## MISSOURI.

ALBA—Weeks Hardware Co.
JOPLIN—Joplin Supply Co.
McNeal Machinery Co.
KANSAS CITY—Crane & Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (of** Chicago), 1217 Union av. (See adv. index, end of book)
Great Western Mfg. Co. (of Leavenworth, Kans.), 1221 Union av
Harbison Mfg. Co.
Kansas City Pump Co.
Reeves Supply Co., 1304 McGee
Southwest Plumbing Supply Co.
U. S. Water & Steam Supply Co., 1315 W 12th
Young, W. B. Supply Co., 212 Delaware
ST. JOSEPH—Horigan Supply Co.
ST. LOUIS—American Radiator Co. (of Chicago), 207 N 10th
Brockman, J. R. Mfg. Co.
Cahill-Swift Mfg. Co., 20 S 12th
Colcord, W. R. Machinery Co., 821 N 2d
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (of** Chicago), 8th c Clark av. (See adv. index, end of book)
Handlan-Buck Mfg. Co., 210 N 3d
Johnson, Wm. C. & Sons Machinery Co., 210 Washington av
Materne Mfg. Co., 18th & Gratiot
Brockman, J. R. Mfg. Co., 214 Lucas av
National Plumbing Supply Co., 110 S 12th
Nelson, N. O. Mfg. Co., 10th & Chestnut
Rumsey, L. M. Mfg. Co.
Street, J. D. & Co., 809 N 2d
Turner Supply Co.
WEBB CITY—Franz Hardware Co.

## MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Anaconda Copper Mining Co.
Montana Hardware Co.
GREAT FALLS—Lowery Engineering Co.
HELENA—Holter, A. M. Hardware Co.
MISSOULA—Missoula Mercantile Co.

## NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co.
LINCOLN—Cooper & Cole Bros.
Smith, R. L. Machine Works
OMAHA—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (of** Chicago), 1102 Farnum. (See adv. index, end of book)
Lehmer, Jos. R., 1212 Farnam
U. S. Supply Co., 1108 Harney

## NEW HAMPSHIRE.

BERLIN—Berlin Mills Co.
CONCORD—Concord Pipe Co.
LANCASTER—Thompson Mfg. Co.
MANCHESTER—Pike & Heald Co.

## NEW JERSEY.

CAMDEN—Fullmer, A. J.
ELIZABETH—Elizabeth Hardware Co.
JERSEY CITY—Gibbons, Ernest A. Co., 26 Jersey City Supply Co., 12 Mercer
Morris Perkins, Arthur L., 283 Warren
KEYPORT—Force & Wyckoff
NEWARK—Banister & Pollard, 206 Market
Chambers & Co., 2 Commercial
Crane Co. (Of Chicago, Ill.) Est 1855. (See adv. index, end of book)
Crane & Milligan, 54 Mechanic
Denny Bros. Co., 15 Mechanic
Egbert, W. V. & Co., 35 Mechanic
Gray, R. Jr. (Inc.), 190 Market
Macknet & Doremus, 796 Broad
Newark Supply Co., 18 Machine
Roe & Conover, 200 Market
NEW BRUNSWICK—Weigel, Philip, Jr.
ORANGE—Lindsley, John N.
PASSAIC—New Jersey Engineering & Supply Co.
PATERSON—Mills, H. W. & Co.
Myers, G. A. & Co.
Quinn Bros.
Smith, Abe.
Van Winkle, J. A. Co.
TRENTON—Corbett Supply Co.
Katzenbach, F. S. & Co.
Warren, Balderston & Co.
WEEHAWKEN—Berger, Edw. W. & Bro.

## NEW MEXICO.

ALBUQUERQUE—Whitney Co.

## NEW YORK.

ALBANY—Albany Hdw. & Iron Co., 43 State
Bates, Edw. P. (of Syracuse), 310 B'way
Hoy & Co., Albany, N. Y.
Wing, Robt. B. & Son, 385 B'way
ALBION—Waterman, G. M.
BINGHAMTON—Gaylord & Eltapence Co.
Shapley & Wells
BUFFALO—Buffalo Machinery Mfg. Co., 24 Burwell pl
Case, W. A. & Son Mfg. Co., 31 Main
Dixon & Ballou, Ellicott sq
Hamill, D. L. Co., 60 Delaware av
Plumbers' & Steamfitters' Supply Co., 246 Main
Ruckel, J. H. & Son. 81 Main
Schaefer & Co., 226 Ellicott
CANANDAIGUA—Cooley, A. E. & Co.
CLYDE—Wood, S. N. & Son
COHOES—Kavanaugh, Geo. W.
Sweet & Doyle
GENEVA—New York Central Iron Works Co.
Vance Boiler Works
GREENPORT—Hedges, Samuel P.
HORNELL—McGuire, Chas. F.
KINGSTON—Canfield Supply Co.
LOCKPORT—American District Steam Co.
Trevor Mfg. Co.
NEWBURGH—Smith, Albert C. & Co.
Smith, W. L.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Jacobs, Geo. P. & Co., 276 S 9th
Knight, Thos. G. Co., 52 Myrtle av
McElraevy & Hauck Co., 440 Broadway
Munkenbeck Bros., 88 Hamilton av
Phillips, Doup & Co., 56 Pearl
Ronalds & Johnson Co. (of New York), 45 Scollay, John A., 74 Myrtle av
Boerum pl
Spencer & Haviland, 174 S Portland
Wilfert, Jno. & Co., 490 Bushwick av

### Boroughs of Manhattan & Bronx.

NEW YORK—Adee, Fred & Co., 44 Cliff
Beals, H. H., 51 Cliff
**BEGGS, JAS. & CO., Liberty &** Behrer & Co., 81 Beekman
Church Bernard-Greenwood Co., 20 Desbrosses
Blue & Queripel Co. (Inc.), 119 E 124th
Boig & Hill, 216 Fulton
Bushnell, John S. & Co., 174 Fulton
Campbell Supply Co., 570 Columbus ave
Chase, H. M. & H. F., 50 Church
Clow, Jas. B. & Sons (of Chicago), 17 Battery pl
Colwell Lead Co., 109 Lafayette
Cornell & Underhill, Greenwich & Spring
Covering & Supply Co., 232 West
Crane Co. (of Chicago), Est. 1855, 490 Cherry. (See adv. index, end of book)
Curran, Jas. Mfg. Co. (Heating Apparatus), 512 W 36th
Dame & Townsend Co., Cliff & Fulton
Dienst, A. P. Co., 2604 3d av
Dimock & Fink Co., 220 E 125th
Donegan & Swift, 6 Murray
Du Bois, F. N. & Co., 247 9th av
Dunham, Carrigan & Hayden Co. (of San Francisco, Cal.), 127 Duane
Efron, Jacob, 233 Broome
Fairbanks Co., cor Lafayette & Broome
Federal-Huber Co., 244 5th av
Gallagher, Jos. E., 19 Cliff
Garrett, W. D. & Co., 136 Liberty
Giannini, G. W., 439 W 42d
Gibbons, Jno. V., 133 Greenwich
Gillis & Geoghegan, 539 W B'way
**GORTON & LIDGERWOOD CO.** (Boilers, Radiators, Valves, etc.), 96 Liberty. (See adv. index, end of book)
Greason Mfg. Co., 108 W 99th
Gurney Heater Mfg. Co. (of Boston), 12 E 42d
Hussey, W. H. & Son, 150 W 35th
Kamerman & Co., 1660 Park av
Keating, Edw. F. Co., 446 Water
Kelly & Jones Co., 15 Park row
Locke & Smith Co., 103 W 37th
McMann, Thos R. Sons, 58 Gold
McMann & Taylor, 104 John
McNab & Harlin Mfg. Co., 56 John
McShane, Wm. Co., 711 6th av
MacSorley Co., 44 Manhattan
Malbin, Mayer, 922 3rd av
Manning, Maxwell & Moore, 85 Liberty
Marine Mfg. & Supply Co., 158 South
Mayor, Lane & Co., 340 Hudson
Mine & Smelter Supply Co., 42 B'way
Montgomery & Co., 105 Fulton
Motley, Green & Co. (Inc.), 68 Broad
Mott, J. L. Iron Works, 118 5th av
Murray, John A., 312 W 39th
**NASON MFG. CO., 71 Fulton (See** adv. index, end of book)
Nevius, Theo. M., 224 Pearl
Page, Wm. H. Boiler Co., 15 Murray
Pancoast & Richards, 28 Platt
Patterson, Gottfried & Hunter (Ltd.), 211 Centre
Peck Bros. & Co. (of New Haven, Conn.), 27 W 42d
Pierce, Butler & Pierce Mfg. Co. (of Syracuse), 279 4th av
Pollock, Alex. Co., 203 West
Ransom, Stephen, 402 West
Roberts, Geo. I. & Bros., 471 4th av
Robertson, Jas. L. & Sons, 78 Murray
**ROGERS, HENRY A. CO., 19 John.** (See adv. index, end of book)
Ronalds & Johnson Co., 54 Cliff
Rumsey Pump & Machine Co., 75 Warren
Russell, W. A. & Co., 63 W 37th
Rutzler, Enoch Co., 404 E 49th
Schaad, Paul Co., 26 Cliff
Schwartz Plumbing Supply Co., 86 Centre
**SIMMONS, JOHN CO., 106 Centre.** (See adv. index, end of book)
Smith, H. B. Co., 39 E Houston
Standard Plumbing Supply Co., St. Ann's av & 159th
Star Lubricating Co., 232 W 28th
Starratt & Jones Co., 129 Worth
U. S. Heater Co. (of Chicago & Detroit), 5 W 29th
Urquhart's, John S. Son & Co., 131 Liberty
Walker & Chambers, 50 E 20th
Walworth Mfg. Co. (of Boston), 13 Park
Williams & Wells Co., 250 Fulton row

### Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 307 Jackson av

**(End of New York City)**

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NIAGARA FALLS—Elderfield-Hartshorn Hardware Co.
NORTH TONAWANDA—American District Steam Co.
OGDENSBURG—Nash Bros. & Co.
OSSINING—Barlow & Co.
POUGHKEEPSIE—Adriance, Peter & Son
Poughkeepsie Foundry & Machine Co.
ROCHESTER—Haverstick & Co.
Howe & Bassett, 23 Stillson
Reynolds, Jas. Co., 35 Mill
Sloan, Samuel & Co., 67 Exchange
SAUGERTIES—Lamb, Daniel & Son
SCHENECTADY—Stevenson Bros.
SYRACUSE—Bates, Edw. P., 228 W Water
Joy, Edw. Co., 125 Market
Kieffer Bros., 220 N Salina
McClure, R. C. Co., 329 S Clinton
Pierce, Butler & Pierce Mfg. Co.
Syracuse Supply Co. (Ltd.), 314 W Fayette
TONAWANDA—Gillie Machine Co.
TROY—Aird-Don Co., 411 River
Barnes, Wm. H., 14 1st
Barnum Bros. Co., 179 River
Horan, J. J. & Co., 215 River
Mulligan & Schermerhorn, 2d c State
Troy Belting & Supply Co., 6 Grand
UTICA—Bates, Edw. P., 38 Pearl
International Heater Co., 21 Park av
Millar, Chas. & Son Co.
WATERTOWN—Hunting Co.
Spratt, Corcoran & Foley Co.
Weekes, Jno. & Son Co.

## NORTH CAROLINA.

CHARLOTTE—Charlotte Supply Co.
General Fire Extinguisher Co. (of Providence, R. I.)
GOLDSBORO—Dewey Bros.
GREENSBORO—Odell Hardware Co.
NEW BERN—Hyman Supply Co.
RALEIGH—Young & Hughes
WINSTON SALEM—Crawford Plumbing & Mill Supply Co.

## OHIO.

AKRON—Hardware & Supply Co. (Pipe & Fittings, etc.)
CANTON—Allman, W. H. Co.
Canton Hardware Co.
McLain, J. H. Co.
Miller, M. W.
Novelty Iron Co.
CINCINNATI—Bourbon Copper & Brass Works, 618 E Front
Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)
Crane-Hawley Co.
Deckebach, F. C. Sons Co., 129 W Court
FAIRBANKS, MORSE & CO. (of Chicago), 307 Walnut. (See adv. index, end of book)
Geerin Bros. & Co., 422 E 8th
LAIDLAW-DUNN-GORDON CO., 211 W 4th. (See adv. index, end of book)
McGowan, John H. Co., 54 Central av
Merkel Bros., Canal & Jackson
Merrie, Hugh, 124 E 8th
Nichol, Thos. J. & Co., cor Pearl & Ludlow
Queen City Supply Co., Pearl & Elm
CLEVELAND—Bingham, Wm. Co., 1455 W 9th
Bliss Supply Co., 815 Long av
Chafer Co., 431 Champlain av, N W
FAIRBANKS, MORSE & CO. (of Chicago). (See adv. index, end of book)
Fisher, E. W. Co.
Kennedy Co. 1310 Huron rd, S E
Lockwood-Luethemeyer-Henry Co.
Mau-Sherwood Supply Co.
PATTISON, W. M. SUPPLY CO., 197-211 St. Clair av. (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND Co., 336 Frankfort av, N. W. (See adv. index, end of book)
Worthington, Geo. Co., 814 St. Clair av, N. W.
COLUMBUS—Ascher Supply Co., 288 N High
Columbus Supply Co., 37 W Spring
Miller, W. H. Co., 80 W Broad
Scioto Valley Supply Co.
Westwater Supply Co.
DAYTON—Buckeye Iron & Brass Works
Dayton Supply Co.
Larkin, M. D. Supply Co., 113 E 3d
DEFIANCE—Defiance Machine Works
FINDLAY—Adams Bros. Co.
Findlay Sucker Rod Co.
Went, C. H.
GREENVILLE—Ross Supply Co.
HAMILTON—Walker, John L. Co.
MANSFIELD—Barnes Mfg. Co.
Humphryes Mfg. Co.
Ohio Brass Co.
MIDDLETOWN—Arpp, John
NAPOLEON—Heller-Aller Co.
TOLEDO—Arbuckle-Ryan Co., 724 Monroe
Grosswiller, J. F. Supply Co., 133 Michigan
National Supply Co.
TROY—Hatfield & Scott
WARREN—Warren Hardware Co.
YOUNGSTOWN—Stambaugh-Thompson Co.
Scholl, W. J. Co.
ZANESVILLE—Le Roy, Jos. A.

## OKLAHOMA.

OKLAHOMA CITY—Crane Co. (of Chicago) Est. 1855. (See adv. index, end of book)

## OREGON.

ASTORIA—Fisher Bros. Co.
PORTLAND—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (of Chicago) (See adv. index, end of book)
Gauld Co., 14 N 1st
Kline, M. L., 84 Front
McPherson, W. G. Co., 47 1st

## PENNSYLVANIA.

ALLEGHENY—Carlin Machinery & Supply
ALLENTOWN—Albright, Son & Co. Co., Inc.
Taylor, Wm. H. & Co.
ALTOONA—Standard Supply & Equipment Co.
ASHLAND—Buck, Peter E. & Sons
BETHLEHEM—Rice, Fred J
BRADFORD—Bovaird & Seyfang Mfg. Co.
Emery, L., Jr., & Co.
Oil Well Supply Co. (of Pittsburg)
BUTLER—Campbell, J. G. & W.
Kesselman & Co.
Masseth Packer & Machine Works, Butler, Pa.
CARBONDALE—Van Bergen & Co.
CHAMBERSBURG—Gilbert, Daniel
CHESTER—Riley, Benj. F.
CHICORA—Hays, E. F. & Sons
Hoch Bros. Co.
CLARION—Magee, John A. & Son
CONSHOHOCKEN—Bate, Wm. T. & Son
CORRY—Barlow Hardware Co.
DUBOIS—Dubois Iron Works
DUKE CENTER—Berry & Duke
EMLENTON—Bennett Hardware Co.
Mitchell, H. B. & Co.
Weller, J. A. & Son
ERIE—Erie Mfg. & Supply Co.
Jarecki Mfg. Co.
FREELAND—Freeland Plumbing & Plumbing Supplies Co.
GREENSBURG—Kelly & Jones Co. (of Pittsburg)
GREENVILLE—Packard Hardware Co.
HARRISBURG—Harrisburg Steam Heat & Power Co.
Mather, Edmund & Co., 36 N 2d
HAZLETON—Bright, J. C. & Co.
Hazleton Machinery & Supply Co.
JOHNSTOWN—Johnstown Supply House
Swank Hardware Co.
KINGSTON—Roat, A. J. Supply Co.
LANCASTER—Reilly Bros. & Raub
Sheet Metal & Supply Co.
Steinman Hardware Co.
LATROBE—Gilligan Hardware & Supply Co.
LEBANON—Krause, Geo. Hardware Co.
MECHANICSBURG—Hauck Bros.
MEYERSDALE—Shipley Hardware Co.
MOUNT JOY—Moyer, Gabriel
OIL CITY—Logan, Robt.
Oil Well Supply Co. (of Pittsburg)
United Hardware & Supply Co.
PHILADELPHIA—Belfield, H. & Co., 435 N Broad
Bell, Harry E., 212 Church
Billington, J. H. Co., 3612 Chestnut
Bond, Chas., 520 Arch
Bowman, H. L. & Co., 31 S 4th
Bridgman Bros. Co., 1430 Washington av
Brogan & Co., 810 Race
Crane Co. (of Chicago), Est. 1855, 245 Master.. (See adv. index, end of book)
Fleck Bros. & Co., 44 N 5th
Ford & Kendig Co., 1432 Callowhill
Froelich Bros., 142 N 7th
Haines, Jones & Cadbury Co., 1136 Ridge
Haines, Wm. S. Co., 136 S 4th av
Hartman Co., 1231 N Front
Haynes-Thompson Co., 1705 Chestnut
Hunter & Dickson Co., 241 Arch
Huyette, Paul B. Co., Inc., 1225 Betz ldg
McArdle & Cooney, 507 Arch
Maddock & Co., 40 N 6th
Maneely, John, 309 Arch
Manning, Maxwell & Moore, 721 Arch
Mott, J. L. Iron Works, Bulletin bldg
Pancoast, Henry B. & Co., 243 S 3d
Penn Engineering Co., 312 Cherry
Perkes, Chas., 627 Arch
Rainear, C. J. & Co., 518 Arch
Ronalds & Johnson Co. (of New York), 139 N 7th
Schade Valve Mfg. Co., 2528 N American
Sees & Faber, 2010 N Front
Spaulding & Metcalf, 532 Arch
Standard Supply & Equipment Co., 1710 Market
Toomey, Frank J., 131 N 3d
Webb, Elisha & Son Co., 136 S Front
Whetstone & Co. (Inc.) (Pie & Fittings, etc.), 911 Filbert
Williamson & Cassedy, 526 Market
PITTSBURG—Anchor Sanitary Co., 123 3d av
Bailey-Farrell Mfg. Co., 3d av & Ross
Best Mfg. Co., 25th & A. V. Ry
Bowman Supply & Mfg. Co., 890 Main
Duquesne Sanitary Co., 426 2d av
Fairbanks & Co., 316 2d av
Frick & Lindsay Co., 109 Wood
Harris Pump & Supply Co., 322 2d av
Heyl & Patterson, 51 Water
Hickman, V. Q., 345 4th av
Hyde Bros. & Co., 316 4th av
Jarecki Mfg. Co. (Ltd.) (of Erie, Pa.), 1005 Liberty av
McKnight, Samuel
OIL WELL SUPPLY CO., 215 Water. (See adv. index, end of book)
PITTSBURGH GAGE & SUPPLY Co., 30th & Liberty av. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. R'y. (See adv. index, end of book)
Reineke-Wilson Co., 15 Wood
Somers, Fitler & Todd Co., 327 Water
Standard Supply & Equipment Co., 1151 Liberty av
Turner, Chas. A., 1319 Grandview av
Watt's, Jno. M. Sons, 54 N 2d
POTTSTOWN—Fegely, J. & Son
POTTSVILLE—Bright & Co.
Pottsville Supply Co.
READING—Bright & Co., 504 Penn
Greth Machine Works (Inc.), 629 Franklin
Stichter Hardware Co. (Ltd.)
Xander Machine & Supply Co.
SCRANTON—Everhart Brass Works
Hunt, Alex. E.
O'Malley Mfg. Co.
Scranton Supply & Machinery Co.
SHARON—Fruit-Ohl Co.
SOMERSET—Schell, P. A. & Co. (of Connellsville)
TITUSVILLE—Kernochan & Co.
United Hardware & Supply Co.
TUNKHANNOCK—Billings, Paul & Co.
WARREN—Picket Hardware Co., Ltd.
WILKES-BARRE—Carpenter, B. G. & Co.
Eastern Penna. Supply Co.
Phelps, Lewis & Bennett Co.
WILLIAMSPORT—Keeler, E. Co.
Kline & Co.
Moltz, Jacob J.
YORK—Small, P. A. & S. Co.

## RHODE ISLAND.

PAWTUCKET—Jackson, Samuel Co.
PROVIDENCE—Allen & Reed (Inc.), 178 Dorrance
American Supply Co.
Conlin, J. C., 34 S Water
General Fire Extinguisher Co., Union Trust bldg
Phillips Lead & Supply Co., 91 S Main
R. I. Supply & Engineering Co., 156 W Exchange

## SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.
Cameron & Barkley Co.
Valk & Murdoch Iron Works

## TENNESSEE.

CHATTANOOGA—Fritts, Tom W. & Co.
James Supply & Hardware Co.
JACKSON—Southern Engine & Boiler Works
MEMPHIS—Bailey, J. A. & Co.
Browne & Borum Co.
Chickasaw Iron Works
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Orgill Bros. & Co.
Riechman-Crosby Co.
NASHVILLE—Fall, J. H. & Co. (Inc.)
Keith, Simmons & Co.
Nashville Machine Co.

## TEXAS.

AUSTIN—Tips, Walter
DALLAS—Briggs-Weaver Machinery Co.
Kinnison Bros.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

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GALVESTON—Shean, Paul Sanitary Plumbing & Mfg. Co.
HOUSTON—Girten-Russ Supply Co.
Heltman, F. W. Co.
Smith-Howard Co.
SAN ANTONIO—Axtell, F. W.
Higgins Co.
San Antonio Machine & Supply Co.
TYLER—Connally, Walter & Co.
Smith & Marsh Co.
WACO—Strauss, E.

### UTAH.

OGDEN—Halverson Bros.
SALT LAKE CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (of** Chicago), 218 S W Temple (See adv. index, end of book)
Salt Lake Hardware Co.
Silver Bros. Iron Works Co.

### VERMONT.

BELLOWS FALLS—Allbee, Geo. B.
RUTLAND—Lincoln Iron Works
Steam Stone Cutter Co. (Valves, Pipe & Fittings, etc.)

### VIRGINIA.

CHARLOTTESVILLE—Wood, J. Edwin Co.
LYNCHBURG—Barker-Jennings Hardware Co.
NORFOLK—Taylor, W. H. & Co.
Virginia-Carolina Supply Co.
Walke, Henry Co.
White, E. V. & Co. (Inc.).
PETERSBURG—Stratton & Bragg Co.
RICHMOND—Frischkorn, Hunter B.
Smith-Courtney Co.
Sydnor Pump & Well Co.
ROANOKE—Nelson Hardware Co.
SUFFOLK—Folk, E. L. Co.

### WASHINGTON.

BELLINGHAM—Morse Hardware Co.
OLYMPIA—Olympia Hardware Co.
SEATTLE—Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)
Hambach, A. Co.
Hofius Steel & Equipment Co. (Pipe, etc.)
Kellogg-Mackey Co.
Moran Co.
Puget Sound Machinery Depot
Vulcan Iron Works
Washington Iron Works Co.
SPOKANE—Barnard Mfg. Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO. (See** adv. index, end of book)
Holley, Mason Hardware Co.
Spokane Hardware Co.
TACOMA—Caldwell Bros. Co. (Inc.)
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Hunt & Mottet Co.
Washington Hardware Co.

### WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.
South Side Foundry & Machine Works
HUNTINGTON—Miller Supply Co.
WHEELING—Trimble & Lutz Supply Co.

### WISCONSIN.

EAU CLAIRE—Brooks, S. C.
Hobbs, W. H. Supply Co.
GREEN BAY—Kimball, Chas., Jr.
Murphy Supply Co.
HURLEY—McConnell Hardware Co.
LA CROSSE—Roosevelt, W. A. Co.
MANITOWOC—Richards Iron Works
MILWAUKEE—Bowers, W. A. Heating Co., 482 Market
Downey Heating & Supply Co., 112 2d
Hoffmann, B. Mfg. Co., 257 6th
Hoffman & Billings Mfg. Co., 100 2nd
Mueller, L. J. Furnace Co. (Heating Apparatus & Supplies), 197 Reed
Rom, Robt. Co., 1101 St. Paul av
Rundle-Spence Mfg. Co., 63 2d
Wisconsin Machinery & Mfg. Co., S Canal nr Muskego av
Yale, H. P. & Co., 99 W Water
OSHKOSH—Battis Bros.
RACINE—Davis, O. C. Co.
WAUPUN—Althouse-Wheeler Co.
WAUSAU—Murray, D. J. Mfg. Co.

## 10940—Steam Heating Apparatus

(See Heaters, Steam & Hot Water; also Radiator Manufacturers; also Valve Manufacturers, Various Kinds; also Steam Fitters' Supplies, Etc.)

## Steam Tables for Culinary Purposes

(See Cooking Apparatus)

## 10941— Stearine

Armour Packing Co., Kansas City, Kans.
Cudahy Packing Co., South Omaha, Neb.
Emery Candle Co., Cincinnati, O.
Morris & Co., Union Stock Yards, Chicago, Ill.
N. Y. Butchers' Dressed Meat Co., 11th av & 38th, New York
Swift & Co., Chicago, Ill.

## 10942—Steel (Agricultural Implement)

(See also Steel Bar Mills; also Steel, Crucible)
American Sheet & Tin Plate Co. (Sheet), Pittsburg, Pa.
Buffalo Steel Co. (Bessemer, Harrow & Cultivator Bars, Plow Beams, etc.), Tonawanda, N. Y.
Calumet Steel Co. (Bessemer Cultivator Bars, Harrow Tooth Bars, U Harrow Bars, Angels, Channels, etc.), Chicago Hgts, Ill.
Cambria Steel Co., Johnstown, Pa.
Colonial Steel Co. (Soft Center, Crucible & Open Hearth Plow Steel, etc.), Pittsburg, Pa.
Crucible Steel Co. of America (Crucible & Open-Hearth), Pittsburg, Pa.
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Harrow Spring Co., Kalamazoo, Mich.
Hart Steel Co. (High Caron Shapes, Angles Tubing, etc.), Elyria, O.
Inland Steel Co., First Nat'l Bank bldg, Chicago, Ill.
Interstate Iron & Steel Co. (High Carbon Steel Cultivator Beams, I & U Harrow Bars, etc.), 1st National Bank bldg, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
La Belle Iron Works (Special Plates, Plow Slabs, etc.), Steubenville, O.
Lackawanna Steel Co. (Bessemer & Open Hearth), Buffalo, N. Y.
Republic Iron & Steel Co. (Angles, Channels, Plow Beams, U Bars, etc.), Pittsburg, Pa.
Sweet's Steel Co., Williamsport, Pa.
Union Drawn Steel Co. (Cold Drawn), Beaver Falls, Pa.

## 10943—Steel (Alkali Drum)

American Sheet & Tin Plate Co., Frick bldg. Pittsburg, Pa.

## 10943a—Steel (Alloy & Carbon)

**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)

## 10944—Steel (Aluminum & Bronze Clad)

Duplex Metals Co. ("Monnot" Bars, Rods, Sheets & Wire), Chester, Pa.

## Steel Angles, Channels & Tees

(See Steel Structural Mills, and note the matter following each name)

## 10945—Steel Automobile Sheets

(See also Iron & Steel Sheet, Black and Galvanized)
American Sheet & Tin Plate Co., Frick bldg. Pittsburg, Pa.
**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
Canton Sheet Steel Co. ("Winir" Full Pickled Finish), Canton, O.
Colonial Steel Co., Pittsburg, Pa.
Columbia Steel Co. (Automobile Frame Steels), Elyria, O.
Follansbee Bros. Co. (And Special Automobile Steel), Pittsburg, Pa.
Halcomb Steel Co., Syracuse, N. Y.
Kro-van Steel Co., Pittsburg, Pa.
Massillon Rolling Mill Co. (Bessemer & Open Hearth), Massillon, O.
**MERCHANT & EVANS CO. (Inc.)** (Also Tin Sheets), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
National Rolling Mills Co., Mansfield, O.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.
West Penn Steel Co., Brackenridge, Pa.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)
Wyoming Shovel Works (Open-Hearth, Nickel & Nickel Chrome), Wyoming, Pa.

## 10946—Steel (Automobile, Special)

**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## Steel Bands & Hoops

(See Iron & Steel, Band & Hoop)

## 10947— Steel Bar Mills

(See also Iron Bar Mills; also Steel, Crucible)
American Bridge Co. (Open Hearth), Pittsburg, Pa.
American Horse Shoe Co. (Steel Bars), Phillipsburg, N. J.
American Iron & Steel Mfg. Co. (Merchant Bar), Lebanon, Pa.
**AMERICAN ROLLING MILL CO.** (Basic Open Hearth), Middletown, O. (See adv. index, end of book)
**AMERICAN STEEL & WIRE CO.** (Open Hearth), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
American Tube & Stamping Co. (Crucible), Bridgeport, Conn.
Atlanta Steel Co. (Basic Open Hearth, Rounds, Flats, Squares, etc.), Atlanta, Ga.
Atlas Steel Co. (High Grade Crucible, "Loco" High Speed Steels, "Atlas" Tempering Steels), Dunkirk, N. Y.
Bethlehem Steel Co. (Nickel & Nickel Chrome for Files, Screws, Wire Rods, etc.), South Bethlehem, Pa.
Braeburn Steel Co. (Open Hearth & Crucible Bar & Tool Steel), Braeburn, Pa.
Brown & Co. (Inc.) (Crucible Bar & Tool Steel), Pittsburg, Pa.
Buffalo Steel Co. (Bessemer Steel), Tonawanda, N. Y.
Calumet Steel Co. (Bessemer Rounds, Squares, Flats, Angles, Channels, etc.), Chicago Heights, Ill.
Cambria Steel Co. (Bessemer & Open Hearth), Johnstown, Pa.
Carnegie Steel Co. (Open Hearth & Bessemer Merchant Bar). General Offices: Pittsburg, Pa.
Carpenter Steel Co. (Crucible Tool Steel), Reading, Pa.
Colonial Steel Co. (Open Hearth Merchant Bars & Crucible Steel Bars), Pittsburg, Pa.
Colorado Fuel & Iron Co. (Bessemer & Open Hearth Merchant Bars), Denver, Colo.
Columbia Tool Steel Co. (Rolled & Hammered Crucible Tool & Machinery), Chicago Heights, Ill.
Chrome Steel Works, Chrome, N. J.
Conners-Weyman Steel Co. (Merchant Bars), Birmingham, Ala.
Crucible Steel Co. of America (Crucible & Open Hearth Merchant Bar & Hammered & Rolled Tool Steel), Pittsburg, Pa.
Cyclops Steel Works (Crucible Steel Rounds, Squares, Flats, etc.), Titusville, Pa.
Eastern Steel Co. (Bar Steel), Pottsville, Pa.
Eckels-Nye Steel Co. (Bessemer & High Carbon Merchant Steel), Syracuse, N. Y.
Empire Rolling Mill Co. (Merchant Bar Steel), Cleveland, O.
Falls Hollow Staybolt Co. (Staybolt), Cuyahoga Falls, O.
Farist Steel Co. (Rolled & Hammered Crucible & Open Hearth), Bridgeport, Conn.
Firth-Sterling Steel Co. ("Blue Chip" Crucible Tool Steel), McKeesport, Pa.
**FRASSE, PETER A. & CO. (Im-**ported), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)
Halcomb Steel Co. (High Grade Crucible Tool Steel & Rolled & Hammered Crucible & Electric Steel), Syracuse, N. Y.
Harrow Spring Co. (Merchant & Machinery Steel), Kalamazoo, Mich.
Heller Bros. Co. (Crucible Steel Bars up to 2 inches), Newark, N. J.

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Helmbacher Forge & Rolling Mill Co. (Open Hearth Rounds, Flats & Squares), St. Louis, Mo.
Highland Iron & Steel Co. (Merchant Bar). Terre Haute, Ind.
Hirsch Rolling Mill Co. (Merchant Bar & Refined Steel), St. Louis, Mo.
Illingworth, Jno. Steel Co. (Hammered & Rolled Crucible Steel Bars; also Rerolled & Hammered Open Hearth Steel), Frankford, Phila., Pa.
Illinois Steel Co. (Merchant Bars, Bessemer & Open Hearth), 115 Adams, Chicago, Ill.
Interstate Iron & Steel Co. (High Carbon Steel & Soft Steel Flats, Rounds, Squares, etc.), 1st Nat'l Bank bldg., Chicago, Ill.
Janson Steel & Iron Co. (Rounds, Flats, Squares, etc.), Columbia, Pa
Jones & Laughlin Steel Co. (Rounds, Squares, Ovals, Flats, Hexagons, etc.), Pittsburg, Pa.
Judson Mfg. Co. (Steel Bars), San Francisco, Cal.
Kro-van Steel Co., Pittsburg, Pa.
Lackawanna Steel Co. (Open Hearth Merchant Steel Bars, Rounds, Squares & Flats, for Car Builders, Agricultural Implements, Bolts, etc.), Buffalo, N. Y.
Lebanon Valley Iron & Steel Co. (Open Hearth Rounds, Squares, Flats, etc.), Lebanon, Pa.
Lockhart Iron & Steel Co. (Soft Steel in Bars). McKees Rocks, Pa.
Logan Iron & Steel Co. (Bessemer & Open Hearth Rounds, Flats, Squares, etc.), Burnham, Pa.
Ludlum Steel & Spring Co. (Pure Carbon Crucible Tool Steel for Taps, Dies, Cutters, Reamers, Chisels, Drills, etc.), Watervliet, N. Y.
McInnes Steel Co. (Ltd.) (Hammered Tool Steel, Air Hardening Steel & "Cello" Oil Tempered Steel), Corry, Pa.
Midvale Steel Co. (Crucible & Open Hearth), Nicetown, Phila., Pa.
Oliver Iron & Steel Co. (Rounds, Squares, Flats & Special Shapes), Pittsburg, Pa.
Otis Steel Co. (Acid & Basic Open Hearth), Cleveland, O.
Pardee, C. Works (Merchant Bars & Angles). Perth Amboy, N. Y.
Penna. Steel Co. (Bessemer & Open Hearth Merchant Bar, Round, Flat & Square Steel), 1421 Chestnut, Phila., Pa. Works, Steelton, Pa.
Philadelphia Steel & Forge Co. (Rolled & Hammered Steel Bars). 50 Church, New York. Works: Tacony, Phila., Pa.
Phoenix Iron Co. (Open Hearth Steel), 410 Walnut, Phila., Pa. Works, Phoenixville, Pa.
Portland Iron & Steel Co., South Portland. Me.
Railway Steel Spring Co. (Open Hearth Flats, Rounds, Squares, etc.), 30 Church, New York
Republic Iron & Steel Co. (Soft & Hard Merchant Steel), Pittsburg, Pa
Rockaway Rolling Mill (Steel Bars), Rockaway, N. J.
Sapulpa Steel & Iron Mills (Merchant Bars). Sapulpa, Okla.
Schuylkill Haven Iron & Steel Co. (Steel Bars, Rounds, Squares, etc.), Schuylkill Haven, Pa.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

Sweet's Steel Co. (Merchant Bar Steel, Special Open Hearth, Flat, Round, Square, Ovals, etc.), Williamsport, Pa.
Tennessee Coal, Iron & Railroad Co. (Steel Bars), Birmingham, Ala.
Texas Rolling Mill Co. (Steel Bars), Fort Worth, Tex.
Union Rolling Mill Co. (Soft Steel Bars), Cleveland, O.
Upson Nut Co. (Basic Open Hearth Steel Bars), Cleveland, O.
Vulcan Crucible Steel Co. (Crucible & Open Hearth Rolled & Forged), Aliquippa, Pa.
Western Steel Car & Foundry Co. (Open Hearth Steel Bars), Chicago, Ill.
Western Steel Corporation (Basic Open Hearth Steel Bars), Seattle, Wash.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.

## 10947a– Steel Barges

(See also Barge Builders)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 10948–Steel Bars (Finished)

(See also Shafting, Polished Steel)

**STANDARD GAUGE STEEL CO.** (Rounds, Squares, Flats, Hexagon & Finished Shapes), Beaver Falls, Pa. (See adv. index, end of book)

## Steel Bars for Reinforced Concrete

(Steel Concrete Reinforcing Bars, Iron & Steel; also Concrete Reinforcing Materials)

## Steel Beams

(See Steel Structural Mills)

## 10949–Steel Bedstead Angles

(See also Steel Structural Mills; also Tubing, Various Kinds)

Buffalo Steel Co. (Bessemer Steel), Tonawanda, N. Y.
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Hart Steel Co. (High Carbon Steel), Elyria, O.
Inland Steel Co., First National Bank bldg. Chicago, Ill.

## Steel Billets & Blooms

(See Billets, Blooms & Slabs, Steel)

## Steel Boiler & Tank Plate

(See Iron & Steel Boiler & Tank Plate)

## 10950–Steel Brick & Rock Face Siding

(See also Roofing & Siding, Iron & Steel)

American Sheet & Tin Plate Co., Pittsburg, Pa.
**BERGER MFG. CO., THE. Main Office & Works,** Canton, O. (See adv. index & branch offices, end of book)
Cambridge Roofing Co., Cambridge, O.
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
Chattanooga Roofing & Fdy. Co., Chattanooga, Tenn.
De Forest Sheet & Tin Plate Co., Niles, O.
Dickelman Mfg. Co., Forest, O.
**EDWARDS MFG. CO., 545-565 Eggleston av,** Cincinnati, O. (See adv. index and branch offices, end of book)
Eller Mfg. Co., Canton, O.
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Inland Steel Co., 1st Nat'l Bk. bldg, Chicago, Ill.
Kanneberg Roofing & Ceiling Co., Canton, O.
Mesker, Geo. L. Co., Evansville, Ind.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Newport Rolling Mill Co., Newport, Ky.
Penn Metal Ceeiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sheet Metal Mfg. Co., Niles, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Thomas Steel Co., Niles, O.
Wheeling Corrugating Co., Wheeling, W. Va.

## 10951–Steel Bridge Plate

American Bridge Co. (Open Hearth), Pittsburg, Pa.
Carbon Steel Co. (Open Hearth), Pittsburg, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Cleveland Steel Co., Cleveland, O.
Crucible Steel Co. of America, Pittsburg, Pa.
Eastern Steel Co., Pottsville, Pa.
Glasgow Iron Co. (Open Hearth Steel; also Iron), Pottstown, Pa.
Illinois Steel Co., 115 Adams, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.
Lucknow Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
Maryland Steel Co., Baltimore, Md.
Parkersburg Iron & Steel Co., Parkersburg, W. Va.
Phoenix Iron Co., 410 Walnut, Philadelphia, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.

## Steel Bridges

(See Steel Structural Work)

## Steel Buildings

(See Steel Structural Work)

## Steel Ceilings

(See Ceilings, Sheet Steel)

## Steel Channels

(See Steel Structural Mills)

## 10952–Steel (Cold Drawn)

**AMERICAN STEEL & WIRE CO.,** (In All Shapes), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cambria Steel Co. (Rounds, Squares, Hexagons, Flats, Angels, Tees & Zees), Johnstown, Pa.
Carpenter Steel Co. (Crucible Steel & Wires), Reading, Pa.
Columbia Steel & Shafting Co. (Drawn & Polished Squares, Flats, Hexagons & Shapes, etc.), Rankin, Pa.
Crucible Steel Co. of America (Crucible, Bright Drawn), Pittsburg, Pa.
De Forest Sheet & Tin Plate Co. (Bessemer & Open Hearth Steel Sheets), Niles, O.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Fitzsimons Co., Youngstown, O.
Halcomb Steel Co. (Crucible), Syracuse, N. Y.
Jones & Laughlin Steel Co. (Rounds, Squares, Hexagons, Flats, Angels, Zees, Plates, Sheets, etc.), Pittsburg, Pa.
**Kidd Bros. & Burgher Steel Wire Co.** (Free Cutting Screw, etc.), Aliquippa, Pa.
Kro-van Steel Co., Pittsburg, Pa.
New Process Steel Co. (Drill Rods & Shapes), Lancaster, Pa.
Pardee, C. Works (Finished Shapes, Rounds, Squares, Hexagon & Flats, Turned & Polished Shafting), Perth Amboy, N. J.
Pittsburg Shafting Co., of Detroit (Die Drawing, Nickel, etc.), Detroit, Mich.
Pittsburg Tool Steel Wire Co. (Tool for Twist Drills, Taps, etc.), Monaca, Pa.
Republic Iron & Steel Co. (Piston & Pump Rods, Lead Screws, Fine Machine Rods, Line Shafting, etc.), Pittsburg, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Superior Steel Co., Pittsburg, Pa. Works, Carnegie, Pa.
**UNION DRAWN STEEL CO. (Rounds,** Flats, Squares, Hexagons, Sheets & Shapes), Beaver Falls, Pa., & 460 Washington, New York
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10953–Steel (Cold Drawn Shapes)

**DAHLSTROM METALLIC DOOR CO.,** Jamestown, N. Y. (See adv. index & branch offices, end of book)

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## 10954—Steel (Cold Pressed)

**STANDARD GAUGE STEEL CO.** (Finished Flats, Rounds, Squares, Angles, Channels & Special Shapes), Beaver Falls, Pa. (See adv. index, end of book)

**WORCESTER PRESSED STEEL CO.** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10955—Steel (Cold Rolled)

**ALLEGHENY STEEL CO. (Pickled &** Cold Rollled Steel Sheets), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

American Sheet & Tin Plate Co. (Sheets), Pittsburg, Pa.

**AMERICAN STEEL & WIRE CO.** (Shafting, Flat Wire, etc.), Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

American Tube & Stamping Co. (Hoops, Bands, Strips & Sheets), Bridgeport, Conn.

Cambria Steel Co. (Rounds, Squares, Hexagons, Flats, Angles, Tees & Zees), Johnstown, Pa.

Canton Sheet Steel Co. (Sheets), Canton, O.

Carpenter Steel Co. (Crucible Steels & Wires), Reading, Pa.

Columbia Steel Co. (Polished Sheets, Bars, Strips, etc.), Elyria, O.

Crucible Steel Co. of America (Crucible, Flats, etc.), Pittsburg, Pa.

Cumberland Steel Co. (Flats, Squares & Hexagons), Cumberland, Md.

Disston, Hy. & Sons (Inc.) (Hexagons, Squares, Flats. etc.), Tacony, Phila., Pa.

Empire Iron & Steel Co. (Bessemer & Open Hearth Steel Sheets), Niles, O.

**GOFF, HORNER & CO. (Special** Open Hearth Steel Sheets for Ceilings & Stamping Purposes), Offices, Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)

Halcomb Steel Co. (Crucible & Electric Furnace Bar, Strips, etc.), Syracuse, N. Y.

Illingworth, Jno. Steel Co. (Shapes & Bevels), Frankford, Phila., Pa. Works, Reading, Pa.

Jones & Laughlin Steel Co. (Hexagons, Squares, Flats, Plates, Sheets, Bars, Rods, etc.), Pittsburg, Pa.

Kidd Bros. & Burgher Steel Wire Co. (Flats), Aliquippa, Pa.

Miller & Van Winkle (Hexagons, Squares, Flats, etc.), 20 Bridge. Brooklyn, N. Y.

Morris & Bailey Co. (Sheets), Wilson, Pa.

National Rolling Mills Co. (Sheets), Mansfield, O.

Parkersburg Iron & Steel Co. ("National' Bessemer Sheets), Parkersburg, W. Va.

Pittsburg Cold Rolled Steel Co., Pittsburg, Pa.

Pittsburg Shafting Co. of Detroit, Detroit, Mich.

Republic Iron & Steel Co. (Rounds), Pittsburg, Pa.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

**STANLEY WORKS (Strip), New Britain,** Conn., & 79 Chambers, New York. (See adv. index, end of book)

Superior Steel Co. (For Stamping, Drawing, etc.), Carnegie, Pa.

Thomas Steel Co. (Bessemer & Open Hearth Steel Sheets), Niles, O.

**UNION DRAWN STEEL CO. (Rounds,** Flats, Squares, Hexagons, Sheets & Shapes, Bessemer, Open Hearth, Crucible, Cold Die Rolled Steel), Beaver Falls, Pa., & 460 Washington, New York

Washburn Wire Co. (Rounds, Squares & Flats), Phillipsdale, R. I., & 118th & Harlem River. N. Y.

West Leechburg Steel Co. (Hot & Cold Rolled Strip), Pittsburg, Pa. Works, Leechburg, Pa.

Wheelock, Lovejoy & Co. (For Blanking & Drawing), 23 Cliff, New York

Wood, Alan Iron & Steel Co. (Sheets), 1421 Chestnut, Phila., Pa.

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10956—Steel (Cold Rolled Strip)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

American Tube & Stamping Co. Bridgeport, Conn.

Carpenter Steel Co. (Crucible Spring), Reading, Pa.

Central Steel & Wire Co. (For Blanking, Drawing & Stamping), 18 S Clinton, Chicago, Ill.

Columbia Steel Co. (Flats in Widths from ½ to 20 inches; in all Gauges from very thin to 3-8th inch thick), Elyria, O.

Crucible Steel Co. of America, Pittsburg, Pa.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Elliott-Blair Steel Co. (Fine Bright Dead Soft for Sewing Machines, Typewriter, Bicycle Parts, etc.), New Castle, Pa.

Griffin Mfg. Co., Erie, Pa.

Miller & Van Winkle, 20 Bridge, Brooklyn, N. Y.

Morris & Bailey Steel Co., Wilson, Pa.

Pittsburg Shafting Co., of Detroit, Detroit, Mich.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

**STANLEY WORKS, New Britain, Conn.** (See adv. index & branch offices, end of book)

Superior Steel Co. (For Stamping & Drawing, etc.), Pittsburg, Pa. Works Carnegie, Pa.

Walker, W. J. & Co., Cleveland, O.

West Leechburg Steel Co. (For Blanking, Stamping & Drawing), Pittsburg, Pa. Works Leechburg, Pa.

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10956a—Steel (Cold & Hot Rolled Sheet)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 10957—Steel (Copper Clad)

Duplex Metals Co. ("Monnot" Bars, Rods. Sheets & Wire), Chester, Pa.

Standard Underground Cable Co., Pittsburg, Pa.

## Steel (Corrugated)

(See Iron & Steel, Corrugated)

## 10958— Steel (Crucible)

(For Crucible Steel Castings, see Castings. Steel, with the Word Crucible Following Their Name)

Atlas Steel Co. ("Loco" High Speed Steels, "Atlas" Tempering Steels, Ingots which will be Hammered into Bars, Squares, Rounds, Flats, Octagons, Hexigons, etc., for Tools, Drills, Lathes, Dies, etc.), Dunkirk, N. Y.

Bethlehem Steel Co. (Forgings, Self Hardening & Carbon Tool Steel Billets, Shafting, Engine Cranks, Forged Armor Plate, etc.), South Bethlehem, Pa.

Braeburn Steel Co. (Bar & Tool, Rolled & Forged), Braeburn, Pa.

Brown & Co. (Inc.) (Tool Steel), Pittsburg, Pa.

Carpenter Steel Co. (Tool Steel for Files, Cutlery, Dies, Wire, etc.). Reading, Pa.

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

Chrome Steel Works (Chrome Steel Plates, Angles, Bars, etc.), Chrome, N. J.

Colonial Steel Co. ("Red Star" Tool & Drill Steel; also Bars, Sheets, Plates, Circular Saw Plates, Merchant Steel & Forgings, etc.), Pittsburg, Pa.

Columbia Tool Steel Co. (Hammered & Rolled Tool & Machinery Steel), Chicago Heights, Ill.

Crucible Steel Co. of America (Hammered & Rolled Tool, Die, Agricultural, Plow, Saw, Spring, Cutlery, Plate, Cold Drawn Sheet, Shear Steel & Finest Quality of Tool Steel), Pittsburg, Pa.

Disston, Henry & Sons (Inc.) (Bar Tool, Cold Roll Bands, Engravers Plates, Flat Wire & Special Steel), Tacony, Phila., Pa.

Farist Steel Co. (Rolled & Hammered, All Kinds), Bridgeport, Conn.

Firth-Sterling Steel Co. ("Blue Chip" Fine Tool Steel), McKeesport, Pa.

**FRASSE, PETER A. & CO. (High** Speed Tool Steel), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)

Halcomb Steel Co. (Finest Quality of Tool Steel, Hammered & Rolled Bars, Sheets & Forgings), Syracuse, N. Y.

Illingworth, Jno. Steel Co. (Hammered & Rolled Bars & Sheets for Tools, Saws, Knives, Files, etc.), Frankford, Phila., Pa.

Imperial Steel Range Co. (Nickel, Chrome & Tungsten Machinery Steel), Cleveland, O.

**JESSOP STEEL CO. (Sheet & Saw** Steel, etc.), 91 John, New York. Works, Washington, Pa.

**JESSOP, WM. & SONS, Inc. ("Jes-** sop's" Best Carbon Tool), 91 John, New York. (See adv. index, end of book)

Kidd Bros. & Burgher Steel Wire Co. (Cold Drawn all Shapes, Drawn Header & Drawn Grip Die Steel), Aliquippa, Pa.

Kro-van Steel Co., Pittsburg, Pa.

McInnes Steel Co. (Ltd.) ("McInnes" Tool & Air Hardening High Speed & "Cello" Steel), Corey, Pa.

Midvale Steel Co. (Hammered & Forged), Nicetown, Phila., Pa.

Penna. Steel Co. (High Speed Tool), 1421 Chestnut, Phila., Pa. Works, Steelton, Pa.

Simond Mfg. Co., Steel Dept. (Saw Plate & Sheet), 16th & Western av., Chicago, Ill.

Vulcan Crucible Steel Co. (High Grade Tool & Rolled & Forged Products), Aliquippa, Pa.

## 10959— Steel (Crushed)

(For Sawing, Grinding & Polishing Granite, Stone, Glass, Brick, etc.)

Harrison Supply Co., 5 Dorchester av, Boston, Mass.

Pittsburg Crushed Steel Co. (Ltd.), Pittsburg, Pa.

## 10959a— Steel Doors

**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv index & branch offices, end of book)

## Steel (Electrical)

(See Iron & Steel Sheet, Electrical)

## 10960— Steel (Emery)

(For Grinding & Rubbing Glass, Marble, etc.; also for Grinding in Valves, Steam & Air Joints)

Pittsburg Crushed Steel Co. (Ltd.), Pittsburg, Pa.

## 10961—Steel Eye Bar Flats

Carnegie Steel Co., Pittsburg, Pa.

**PETER A. FRASSE & CO.,** Canal and Sullivan Sts., **NEW YORK**

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## 10962–Steel Factory Equipment

(See also Specific Article Wanted)

Angle Steel Stool Co., Otsego, Mich.
**Bernstein Mfg. Co.** (Lockers, Material Closets, Shelving, etc.), 3d & Allegheny av, Phila., Pa.
**FIRE-PROOF FURNITURE & CONstruction Co.,** Miamisburg, O. (See adv. index, end of book)
Kalamazoo Steel Goods Co., Kalamazoo, Mich.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
Manufacturing Equipment & Engineering Co. (Sanitary Wash Bowls, Lockers, Soda Kettles, Work Benches, etc.), So. Framingham, Mass.
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
**TERRELL'S EQUIPMENT CO. (Bins,** Shelving, Trucks, Lockers, Racks, Tote Boxes, etc.), Grand Rapids, Mich. (See adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.

## 10963– Steel (File)

Crucible Steel Co. of America. Pittsburg, Pa.
Midvale Steel Co., Nicetown, Phila., Pa.
Vulcan Crucible Steel Co., Aliquippa, Pa.

## 10964–Steel Filing Equipment

(See also Filing Cabinets & Devices)

**FIRE-PROOF FURNITURE & CONstruction Co.,** Miamisburg, O. (See adv. index, end of book)
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)

## 10965–Steel Fire Box Plate

Carbon Steel Co. (Open Hearth), Pittsburg,
Carnegie Steel Co., Pittsburg, Pa. Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Crucible Steel Co. of America, Pittsburg, Pa.
Lucknow Iron & Steel Co., Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.
Otis Steel Co. (Open Hearth), Cleveland O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

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## Steel Floor Plate

(See Plates, Floor, Iron & Steel)

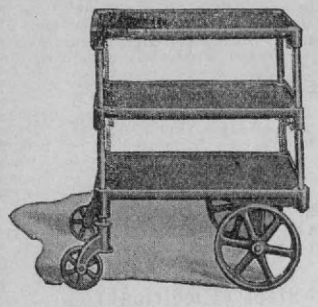
## 10966– Steel Hardening

Bridgeport Metal Treating Co. (High Speed Steel a Specialty), Bridgeport, Conn.
Carey Spring Works, 240 W 29th, New York
**McCABE HANGER MFG. CO., 425 W** 25th, New York. (See adv. index, end of book)
National Cycle Mfg. Co., Bay City, Mich.
Scott, C. U., Davenport, Ia.
**TRETHEWEY, SAM'L & CO., Ltd.,** 47th St, Pittsburg, Pa. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

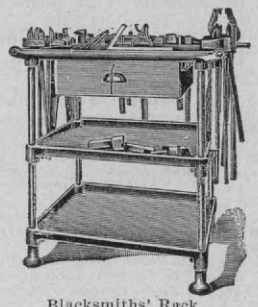
## 10967–Steel (High Carbon)

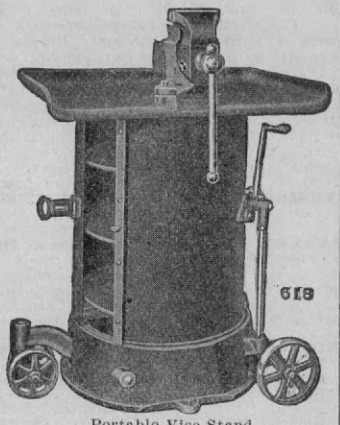
Bethlehem Steel Co. (Tool, etc.), South Beth-
Carbon Steel Co., Pittsburg, Pa. lehem, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Colonial Steel Co., Pittsburg, Pa.
Columbia Tool Steel Co., Chicago Heights, Ill.
Crucible Steel Co. of America, Pittsburg, Pa.
Eckels-Nye Steel Co., Syracuse, N. Y.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Halcomb Steel Co., Syracuse, N. Y.
Hart Steel Co., Elyria, O.
Indiana Rolling Mill Co. (Sheets), New Castle, Ind.
Interstate Iron & Steel Co., 1st Nat'l Bank bldg, Chicago, Ill.
Kro-van Steel Co., Pittsburg, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Vulcan Crucible Steel Co., Aliquippa, Pa.
Warren Iron & Steel Co. (Sheets & Shovel **Plate, etc.),** Warren O.
Wheelock, Lovejoy & Co. (For Springs, Saws, **Buckles,** etc.), 23 Cliff, New York

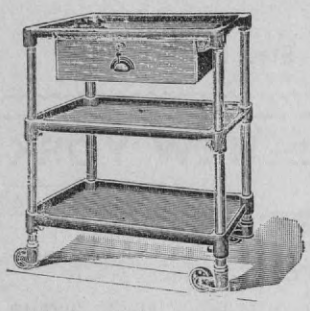
SHOP FURNITURE
THE "NEW BRITAIN" KIND

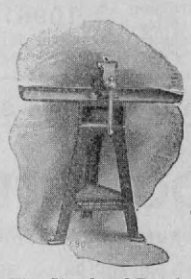

All Metal Shop Truck


Blacksmiths' Rack, Pivot Mounted


Blacksmiths' Rack, Mounted on Feet


Portable Vise Stand


Three Tray Rack, with Drawer

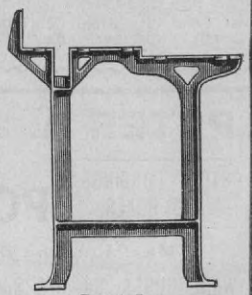

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NEW BRITAIN, CONN., U. S. A.


Bench Leg

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JESSOPS "ARK" HIGH SPEED AIR HARDENING STEEL

gives marvelous results—heavy cuts—at rapid speed; cannot be burned. : : : :

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## 10968—Steel (High Speed)

(Firms marked with a (*) star are either Jobbers or Importers; all others are Manufacturers)

(See also Steel Importers)

Allen, Edgar & Co. (Ltd.) ("Allen," Air Hardening), 297 Pearl, New York, & 434 W Randolph, New York

Atlas Steel Co. ("Loco," Crucible), Dunkirk, N. Y.

Bethlehem Steel Co. ("Bethlehem," Special Tool), South Bethlehem, Pa.

*Boker, Herman & Co. ("Novo" Imported), 101 Duane, New York

*Bourne-Fuller Co. ("Scott's I X L"), Cleveland, O.

Carpenter Steel Co., Reading, Pa.

Central Steel & Wire Co., 188 Clinton, Chicago, Ill.

Colonial Steel Co. (Bars, Plates or Sheets), Pittsburg, Pa.

Columbia Tool Steel Co. ("Columbia"), Chicago Heights, Ill.

Crucible Steel Co. of America ("Rex A"), Pittsburg, Pa.

Disston, Hy. & Sons, Inc., Tacony, Phila., Pa.

Firth-Sterling Steel Co. (Blue Chips), McKeesport, Pa.

***FRASSE, PETER A. & CO. ("Poldi")**, Canal & Sullivan, New York. (See adv. index & branch offices, end of book)

Halcomb Steel Co. (Crucible), Syracuse, N. Y.

*Heller Bros. Co. ("Heller's," Alloy High-Speed Tool Steel), Newark, N. J.

*Hobson-Houghton & Co. (Ltd.) ("Albion"), 1 Front, New York

*Houghton & Richards (Jobbers). Boston, Mass.

Illingworth, Jno. Steel Co., Frankford, Phila., Pa.

*International High Speed Co. ("Bulldog", Swedish), Franklin sq, New York

**JESSOP, WM. & SONS, Inc. (Jes-** York. (See adv. index, end of book)

*Jones, B. M. & Co. (Inc.) ("Mushet," Imported), 141 Milk, Boston, Mass., & 141 B'way, New York

Kro-van Steel So., Pittsburg, Pa.

*Lowenthal & Co. ("Elco" Imported), Buffalo, N. Y.

McInnes Steel Co. (Ltd.) ("McInnes" Extra Air Hardening), Corey, Pa.

*McKenna Bros. Brass Co. (Red-Cut), Pittsburg, Pa.

Midvale Steel Co., Nicetown, Phila., Pa.

*Nash, Geo. & Co. ("Capitol"), 217 Pearl, New York

*Nicholls, Wm. S. (For All Kinds of Cutting Tools), 253 B'way, New York

Pennsylvania Steel Co. (Crucible Tool), 1421 Chestnut, Phila., Pa. Works, Steelton, Pa.

*Phillips, F. R. & Sons Co. ("Velos"), Penna. bldg, Phila., Pa.

*Potts, Horace T. & Co. ("Rekford", Superior), 318 N 3d, Phila., Pa.

*Royal Metal Steel Co. ("Excelsior," Imported), 1926 B'way, New York

**RYERSON, JOS. T. & SON. 2558 W** 16th, Chicago, Ill. (See adv index & branch offices, end of book)

***Stauffer, Eshleman & Co. (Ltd.) ("Arrow,"** Swedish Electro), New Orleans, La.

Swedish Iron & Steel Corp. ("Sisco Radio", Swedish), 12 Platt, New York

Vanadium Alloys Steel Co. ("Red Cut"), Latrobe, Pa.

Vulcan Crucible Steel Co., Aliquippa, Pa.

*Ward, Edgar T. & Sons ("Ultra Capitol" New Water Hardening), Boston, Mass.

*Wardlow, S. & C. ("Wardlow"), 278 Pearl, New York

*Wheelock, Lovejoy & Co. (Selling Agents), 23 Cliff, New York, & Boston, Mass.

## Steel (Hoop)

(See Iron & Steel Band & Hoop)

## 10969—Steel (Hot Rolled Strip)

American Tube & Stamping Co. (Hoop & Bar), Bridgeport, Conn.

Carpenter Steel Co. (Crucible Steels & Wires), Reading, Pa.

Disston, Hy. & Sons, Inc., Tacony, Phila., Pa.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Superior Steel Co. (For Stamping & Drawing, etc.), Pittsburg, Pa. Works Carnegie, Pa.

West Leechburg Steel Co. (For Blanking, Stamping & Drawing), Pittsburg, Pa. Works: Leechburg, Pa.

Wheelock, Lovejoy & Co. (For Blanking & Deep Drawing), 23 Cliff, New York

**WORCESTER PRESSED STEEL CO.**, Worcester, Mass. (See adv. index & branch offices, end of book)

## 10970— Steel Importers

Allen, Edgar & Co. (Ltd.) ("Edgar Allen," Tool Steel, etc.). 291 Pearl, New York, & 434 W Randolph, Chicago, Ill.

Boker, Hermann & Co. (The "Jonas & Culver" Tool Steel, Drill Rods, Needle Wire, Hot & Cold Rolled Sheet Steel, Steel for Watch, Clock and Other Springs, Steel & Crucible Wire Rods, etc.), 101 Duane, New York

Brown-Wales Co. (Norway & Refined Iron, Steel Bars, Angles, Tees, Plates, Structures, Material Steel Balls & Mechanical Tubing), 83 Purchase, Boston, Mass.

Coe-Faitoute Co., Newark, N. J.

Dana & Co., 32 B'way, New York

**FRASSE, PETER A. & CO. ("Poldi"** High Speed, Also Alloy, Carbon & Nickel Steels), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)

Hammacher, Delius & Co. ("Gysinge," Electro High Grade Tool Steel), 194 West, New York

Hobson-Houghton & Co. (Tool Steel, Needle Wire, Bright Drill Rods, "Soho" Self-hardening Steel, etc.), 1 Front, New York

Houghton & Richards ("Styrian" Tool Steel & "Low Moor" & "Farnley" Iron), 148 Oliver, Boston, Mass.

**JESSOP, WM. & SONS, Inc. (Bars,** Sheets & Plates, "Jessop's" Best Carbon Tool Steel & Jessop's "Ark" High Speed Air Hardening Steel), 91 John, New York. (See adv. index, end of book)

Jones, B. M. & Co. (Inc.) ("Mushet" High Speed Steel; Special Steel; "Titanic" Steel, "Osborn's" High Speed Steel Twist Drills & Milling Cutter Blanks, Best "Yorkshire" Iron, Round, Square, Flat & Hexagon Bars), 141 Milk, Boston, & 141 B'way, New York

**LEAVITT, C. W. & CO. (Iron & Steel** Bars & Shapes), 34 Church, New York. (See adv. index, end of book)

Lowenthal & Co. ("Elco" High Speed), Buffalo, N. Y.

Milne, A. & Co. (Norway Iron & Steel, Blooms, Billets, Bars, Wire, Rivet & Nail Rods, etc.), 30 Church, New York, & 8 Oliver, Boston, Mass.

Nash, Geo. Co. ("Capital" High Speed Self-Hardening & Tool Steel), 646 W Wash'n boul, & 217 Pearl, New York

Newkirk, Jno. B. & Co. (Structural Shapes, Bars, Sheets, etc.), 1502 Market, Philadelphia, Pa.

Potts, Horace T. & Co. (Bars, Angles, Tees, Slabs, Beams, Channels, Billets, Blooms, Sheet Bars, etc.), 316 N 3d, Phila., Pa.

Prosser, Thos. & Son (American Office of Fred'k Krupp), 15 Gold, New York

Reisinger, Hugo ("Victoria" Tool Steel), 11 B'way, New York

Royal Metal Steel Co. ("Excelsior," High Speed Steels, Chrome, Nickel & Die Steel, Special Electric Treated Tool Steel, Superior Grade Automobile Steels), 1926 B'way, New York

Stauffer, Eshleman & Co. (Ltd.) ("Arrow" Brand, High Speed, "Crown," Solid Swedish), New Orleans, La.

Swedish Iron & Steel Corp. ("Sisco Radio", Hugh Speed "Dannemora" Cast Steel, "Sisco" Hollow Drill "Dora"), 12 Platt, New York

Todd, John H. L., 42 B'way, New York

Wallace, Wm. H. Co., 66 B'way, New York

Wardlow, S. & C. (Tool Steel, Cast & Double Sheet Steel, Cutlery Steel, Steel for Watches & Other Springs, etc.), 278 Pearl, New York

Wheelock, Lovejoy & Co., 23 Cliff, New York

Wilckes, J. Co. ("Sandviken" Swedish High Speed Tempered & Polished Steel), 135 William, New York

## 10971— Steel Inspection

Hunt, Rob't W. & Co., The Rookery, Chicago, Ill., & 90 West, New York

## 10972—Steel (Locomotive Boiler)

Carbon Steel Co., Pittsburg, Pa.

Carnegie Steel Co., Pittsburg, Pa.

Central Iron & Steel Co. (Open-Hearth Steel), Harrisburg, Pa.

Crucible Steel Co. of America, Pittsburg, Pa.

Illinois Steel Co., 115 Adams, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Lukens Iron & Steel Co., Coatesville, Pa.

Worth Bros. Co., Coatesville, Pa.

## 10973— Steel (Magnet)

Atlas Steel Co. ("Atlas" Crucible), Dunkirk, N. Y.

Boker, Hermann & Co. (Imported), 101 Duane, New York

Crucible Steel Co. of America, Pittsburg, Pa.

Kro-van Steel Co., Pittsburg, Pa.

## Steel (Manganese)

(See Castings, Manganese Steel)

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## 10974—Steel (Metal Wheel)

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 10975—Steel Mine & Mill Buildings (Constructors of)

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa.** (See adv. index, end of book)

## 10976— Steel (Nickle)

Bethlehem Steel Co., South Bethlehem, Pa.
Boker, Herman & Co. (Importers), 101 Duane, New York
Carbon Steel Co., Pittsburg, Pa.
Colonial Steel Co. (Bars, Plates & Sheets), Pittsburg, Pa.
Crucible Steel Company of America (Rerolled, etc.), Pittsburg, Pa.
Electrical Alloy Co. (Ribbon, Sheets & Wire), Morristown, N. J.

**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)

Mesta Machine Co., Pittsburg, Pa.
Midvale Steel Co., Nicetown, Phila., Pa.
Taylor Iron & Steel Co., High Bridge, N. J.
Wyoming Shovel Works (Also Nickel Chrome), Wyoming, Pa.

## Steel Pipe

(See Pipe & Tube Mills)

## Steel Plate

(See Iron & Steel Boiler & Tank Plate; also Steel Fire Box Plate)

## 10977— Steel Plate Work

Atlantic Works, Boston, Mass.
Aurora Boiler Works (Inc.), Aurora, Ill.
Brennan, John & Co., Detroit, Mich.
Bryan, E. A. Co., 119 Monroe, Chicago, Ill., & Buckeye Boiler Co., Dayton, O. Harvey, Ill.

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)

Casey-Hedges Co., Chattanooga, Tenn.
Coatesville Boiler Works, Coatesville, Pa.
Cockburn Co., Jersey City, N. J.
Columbiana Boiler Co., Columbiana, O.
Connellsville Iron Works, Connellsville, Pa.
Connelly, D. Boiler Co., Cleveland, O.

**CONNERY & CO., 9th & Master,** Phila., Pa. (See adv. index, end of book)

Cruse-Kemper Co., Ambler, Pa.

**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Duff Patents Co., Frick Bldg., Pittsburg, Pa.
Ervien, Chas. W. & Co., Venango & G, Phila., Pa.

**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)

**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

Heggie, James G., Joliet, Ill.

**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**KITTOE BOILER & TANK CO., Inc.,** Canton, O. (See adv. index, end of book)

**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)

Lacy Mfg. Co. (Of Any Description), Los Angeles, Cal.
Lake Erie Boiler Works, Buffalo, N. Y.
Lappan, Jas. Mfg. Co., Pittsburg, Pa.
Leslie, Elliott & Co., Paterson, N. J.
Logan Iron Works, 42 Commercial, Brooklyn, N. Y.
Lyons Boiler Works, De Pere, Wis.
McAllister-Byrne Const. Co., Girard, O.
McDermott Engineering Co., Allentown, Pa.
McNeil, Jas. & Bro. Co., Pittsburg, Pa.

**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)

Manitowoc Engineering Works, Manitowoc, Wis.
Meehan Boiler & Const. Co., Lowellville, O.
Meyers, Otto C. & Co., 30 Franklin, Brooklyn, N. Y.

**MICHELMANN STEEL CONSTRUC-** tion Co., Quincy, Ill. (See adv. index, end of book)

Munroe, R. & Sons Corp'n, Pittsburg, Pa.
National Boiler & Sheet Iron Works, Indianapolis, Ind.
Novelty Steam Boiler Works (Tripplett & Jennings, Props.), Baltimore, Md.
Pennsylvania Engineering Wks, New Castle, Pa.

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works), Stephen Girard Bldg., Phila., Pa. Works, Lebanon, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Renneburg, E. & Sons Co., Baltimore, Md.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Commonwealth bldg, Pittsburg, Pa. Works: Queens Junction, Pa.
Ruemmeli-Dawley Mfg. Co., St. Louis, Mo.

**SCAIFE, WM. B. & SONS CO., Pitts-** burg, Pa. (See adv. index, end of book)

Scannell Boiler Works, Lowell, Mass.

**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)

Skinner Ship Bldg. & Dry Dock Co., Baltimore, Md.
Smith, Samuel & Son Co., Paterson, N. J.
Springfield Boiler & Mfg. Co., Springfield, Ill.
Standard Boiler & Plate Iron Co., Niles, O.
Star Boiler & Sheet Iron Works, Denver, Colo.

**STRUTHERS-WELLS CO. (For Oil** Refineries, Beet Sugar Refineries, Soap Factories, Wood Alcohol & Serpentine Plants), Warren, Pa. (See adv. index, end of book)

Tofte Boiler & Sheet Iron Works, Houston, Texas
Treadwell Construction Co., Midland, Pa.
Tulsa Boiler & Sheet Iron Works, Tulsa, Okla.
Union Iron Works, Hoboken, N. J.
United Boiler Heating & Foundry Co., Hammond, Ind.
Variety Iron & Steel Works Co., Cleveland, O.

**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 10977a—Steel Plates (Bent & Punched for Export)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## Steel Plates & Heads (Sheared)

(See Boiler Heads, Flanged & Dished)

## 10978—Steel Plates & Sheets

**ALLEGHENY STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. indev & branch offices, end of book)

**AMERICAN STEEL & WIRE CO.** (Bessemer & Open Hearth), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

American Tube & Stamping Co., Bridgeport, Conn.
Cleveland Steel Co. (Light Plates & Sheets), Cleveland, O.
Colonial Steel Co. (Crucible & Open Hearth), Pittsburg, Pa.
Crucible Steel Co. of America (Special Quality of Crucible & Open Hearth), Pittsburg, Pa.
Inland Steel Co. (Light Open Hearth), 1st Nat'l Bank bldg, Chicago, Ill.

**Jones & Laughlin Steel Co., Pittsburg, Pa.**

La Belle Iron Works (No. 30 & Heavier), Steubenville, O.
Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.
Otis Steel Co. (Open-Hearth Steel Plates), Cleveland, O.
Portsmouth Steel Co. (Light & Heavy Plates & Heavy Sheets), Portsmouth, O.
Republic Iron & Steel Co. (Open Hearth, Soft & Hard Merchants), Pittsburg, Pa.

**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)

Sligo Iron & Steel Co. (Iron & Steel Sheets 9 to 18 Gauge Plates & Heavier), Connellsville, Pa.
West Penn Steel Co., Brackenridge, Pa.
Wood, Alan Iron & Steel Co. (Iron & Steel Flue & Plate), 1421 Chestnut, Phila., Pa.
Worth Bros. Co. (Iron & Steel), Coatesville, Pa.

## Steel (Plow)

(See Steel, Agricultural Implement)

## 10979—Steel (Powder Keg)

American Sheet & Tin Plate Co., Frick bldg, Pittsburg, Pa.
Wood, J. & Bros. Co., Conshohocken, Pa.

## 10980— Steel (Pressed)

(See also Pressed Steel Specialties)

Defiance Pressed Steel Co., Defiance, O.

**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)

Pressed Steel Car Co., Pittsburg, Pa.
Standard Gauge Steel Co. (Cold Pressed Finished Flats, Squares, Rounds, Angles, Channels & Special Shapes), Beaver Falls, Pa.


# ALLEGHENY STEEL COMPANY

**Offices: Oliver Building, PITTSBURG, PA.** **Mills at Brackenridge, Pa.**

**Plates**
Open Hearth
TANK PLATES.
Gauges:
No. 8 to 11-16" inclusive.
Width Limit, 84"

**"Reliance" Boiler Tubes**
Charcoal Iron and Steel.
All Standard Sizes in Stock.

**Stamping and Drawing Steel**
Cold Rolled Sheets in any degree of softness or hardness required.
For all purposes requiring extra fine finish.

**Steel Castings**
Rolling Mill Castings a Specialty.
Annealing Boxes, Pinions, Housings, Etc.

**Washers**
Round Plate Washers
3-16 to 2 1-2"
All Standard Sizes in Stock.
Inquiries for Special Washers Solicited.


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Waynesburg Pressed Steel Co., Waynesburg, Pa.
**WORCESTER PRESSED STEEL CO.** (Bearings. Fittings & Specialties), Worcester, Mass. (See adv. index & branch offices, end of book)
Youngstown Pressed Steel Co., Youngstown, O.

## Steel Rails
(See Rail Mills, Iron & Steel)

## 10981—Steel (Range Boiler)
American Sheet & Tin Plate Co., Frick Bldg., Pittsburg, Pa.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.

## Steel Ribs & Lagging
(See Centering, Steel)

## Steel Roofing
(See Roofing & Siding, Iron & Steel)

## 10982—Steel Screw Stock
**AMERICAN STEEL & WIRE CO.** (Free Cutting), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Columbia Steel & Shafting Co., Rankin, Pa.
Jones & Laughlin Steel Co. (Bessemer & Open Hearth Cold Rolled), Pittsburg, Pa.
Pittsburg Shafting Co. of Detroit (Cold Rolled), Detroit, Mich.
**STANDARD GAUGE STEEL CO.** (Cold Drawn Steel), Beaver Falls, Pa. (See adv. index, end of book)
**UNION DRAWN STEEL CO. (Cold** Drawn), Beaver Falls, Pa., & 460 Washington, New York

## 10983—Steel (Self-Hardening)
(Firms marked with a (*) Star are either Jobbers or Importers)
Atlas Steel Co. ("Atlas," Crucible Tempering), Dunkirk, N. Y.
Bethlehem Steel Co. (Open Hearth), South Bethlehem, Pa.
Colonial Steel Co., Pittsburg, Pa.
Columbian Tool Steel Co., Chicago Heights, Ill.
Crucible Steel Co. of America ("Park's"), Pittsburg, Pa.
*Denman & Davis, 85 Lafayette, New York
Firth-Sterling Steel Co., McKeesport, Pa.
***FRASSE, PETER A. & CO.** ("Poldi"), Canal & Sullivan, New York. (See adv. index & branch offices, end of book)
*Hobson-Houghton & Co. (Ltd.) ("Soho"), 1 Front, New York. Works: Sheffield, Eng.
*Houghton & Richards, Boston, Mass.
Illingworth, Jno. Steel Co., Frankford, Phila., Pa.
***JESSOP, WM. & SONS, Inc. (Im-**ported), 91 John, New York. (See adv. index, end of book)
*Jones, B. M. & Co. (Inc.) ("Mushet"), 141 Milk, Boston, Mass., & 141 B'way, New York
McInnes Steel Co., Ltd. (Air Hardening, etc.), Corry, Pa.
Midvale Steel Co. ("Midvale"), Nicetown, Phila., Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Vulcan Crucible Steel Co., Aliquippa, Pa.

## Steel Sheet
(See Iron & Steel Sheet, Black & Galvanized)

## 10984—Steel Sheet Bars
**ALLEGHENY STEEL CO. (Open** Hearth), Farmers' Bank bldg, Pittsburg, Pa. ((See adv. index & branch offices, end of book)
American Steel Co. (Jobbers), Pittsburg, Pa.
American Steel & Tube Co., Lorain, Ohio
Andrews Steel Co. (Open Hearth), Newport, Ky.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co. (Bessemer & Open Hearth), Pittsburg, Pa.
Colorado Fuel & Iron Co. (Open Hearth), Denver, Col.
Follansbee Bros. Co. (Open Hearth), Pittsburg, Pa.
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Harrisburg Pipe & Pipe Bending Co. (Open Hearth), Harrisburg, Pa.
Job Iron & Steel Co. (Iron & Steel), Ashland, Ky.
La Belle Iron Works (Open Hearth), Steubenville, O.
Lackawanna Steel Co. (Open Hearth, Bessemer), Buffalo, N. Y.
Republic Iron & Steel Co. (Open Hearth). Pittsburg, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sharon Steel Hoop Co. (Open Hearth), Sharon, Pa.
Taylor, N. & G. Co. (Light. Open Hearth), Mariner & Merchants' bldg, Phila., Pa.
United Steel Co. (Open Hearth), Canton, O.
West Penn Steel Co., Brackenridge, Pa.
Youngstown Steel & Tube Co. (Soft Bessemer; also Iron), Youngstown, O.

## 10985—Steel Sheet Blanking & Forming
**ALLEGHENG STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 10986—Steel Sheet Plates
Kro-van Steel Co., Pittsburg, Pa.
Massillon Rolling Mill Co., Massillon, O.

## 10987—Steel Sheets (Aluminum Coated)
Wilder Metal Coating & Mfg. Co. (Also Iron), Connellsville, Pa.

## 10989—Steel Sheets (Blue Annealed)
Follansbee Bros. Co., Pittsburg, Pa.
Inland Steel Co. (Open Hearth), Chicago, Ill.
La Belle Iron Works (Open-Hearth Steel Plates 3-16 to 18 Gauge), Steubenville, O.
Massillon Rolling Mill Co., Massillon, O.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
National Rolling Mills Co., Mansfield, O.
Parkersburg Iron & Steel Co., Parkersburg, W. Va.
Portsmouth Steel Co. (Open Hearth), Portsmouth, O.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sligo Iron & Steel Co. (Bessemer & Open Hearth), Connellsville, Pa.
Taylor, N. & G. Co. (Open Hearth), Mariner & Merchants bldg, Phila., Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wood, Alan Iron & Steel Co. (Ltd.), 1421 Chestnut, Phila., Pa.
Wood, J. & Bros. Co., Conshohocken, Pa.

## 10990—Steel Sheets (Box Annealed)
American Sheet & Tin Plate Co., Pittsburg,
Inland Steel Co., Chicago, Ill. Pa.
La Belle Iron Works, Steubenville, O.
Seneca Iron & Steel Co., Buffalo, N. Y.

## 10991—Steel Sheets (Buggy Bow)
American Sheet & Tin Plate Co., Frick bldg, Pittsburg, Pa.
Empire Iron & Steel Co., Niles, O.
Follansbee Bros. Co., Pittsburg, Pa.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Pa.

## 10992—Steel Sheets (Cold Rolled)
(See Firms in Steel, Cold Rolled, with word "Sheets" following their names)

## 10993—Steel Sheets for Shovels, Saws, Hoes, Springs, Etc.
American Sheet & Tin Plate Co., Pittsburg, Pa.
Kro-van Steel Co., Pittsburg, Pa.
Rowland, Wm. & Harvey, Frankford, Phila., Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.

## 10993a—Steel Sheets for Stamped Ware
(See Iron & Steel Sheet, Black & Galvanized)

## Steel Sheets (Galvanizd)
(See Iron & Steel Sheet, Black & Galvanized)

## 10994—Steel Sheets (Pickled)
**ALLEGHENY STEEL CO. (Cold** Rolled), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
American Sheet & Tin Plate Co., Pittsburg, Pa.
Canton Sheet Steel Co. ("Winir" Leveled & Resquared), Canton, O.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.
Wood, J. & Bros. Co., Conshohocken, Pa.

## 10995—Steel Sheets (Planished & Polished)
American Sheet & Tin Plate Co., Pittsburg, Pa.
Follansbee Bros. Co. (Polished Sheets Only), Pittsburg, Pa.
National Rolling Mills Co., Mansfield, O.
Parkersburg Iron & Steel Co., Parkersburg, W. Va.
Phillips Sheet & Tin Plate Co. (Polished), Weirton, W. Va.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Standard Steel Co., Bedford, O.
Union Sheet & Tin Plate Co. (Open Hearth, Polished), Marietta, O.
Union Sheet & Tin Plate Co., Pittsburg, Pa.
Ward-Dickey Steel Co. (Hammered Planished Open Hearth, 18 to 28 Gauge), Indiana Harbor, Ind.
West Leechburg Steel Co., Pittsburg, Pa.
Wood, Alan Iron & Steel Co., 1421 Chestnut, Phila., Pa.

## 10996—Steel Shovel Plate
**ALLEGHENY STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**Colonial Steel Co. (Open Hearth & Crucible), Pittsburg, Pa.**
De Forest Sheet & Tin late Co., Niles, O.
Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.
Hartman, Hays & Reis (Iron & Steel), Belleville, Ill.
Indiana Rolling Mill Co. (High Carbon Sheet Steel for Shovel Plate, Grain Drill & Harrow Discs, etc.), New Castle, Ind.
Kro-van Steel Co., Pittsburg, Pa.
La Belle Iron Works, Steubenville, O.
Lessig, Geo. B. Co. (Inc.) (Iron Only), Pottstown, Pa.
Warren Iron & Steel Co. (High Carbon), Warren, Pa.
Wyoming Shovel Works, Wyoming, Pa.

## 10997—Steel (Silver Plates, Etc.)
Duplex Metals Co. ("Monnot" Process), Chester, Pa.

## Steel Skelp
(See Iron & Steel Skelp)

## Steel Slabs
(See Billets, Blooms & Slabs, Steel)

## 10998— Steel (Soft)
Acme Steel Co. (Soft Center Plow), Moline, Ill.
Columbia Steel & Shafting Co. (Hot & Cold Rolled Strip for Stamping, Drawing, etc.), Pittsburg, Pa. Works, Carnegie, Pa.
Crucible Steel Co. of America ("Diamond," Soft Center Plow, etc.), Pittsburg, Pa.
Elliott-Blair Steel Co. (Bright Dead for Sewing Machine, Typewriter & Bicycle Parts, etc.), New Castle, Pa.
Interstate Iron & Steel Co. (Flats, etc.), 1st Nat'l Bank bldg, Chicago, Ill.
Lockhart Iron & Steel Co. (In Bars, Hexagons & Grooved, etc.). Pittsburg, Pa.
Midvale Steel Co. (For Screw Machine Work, etc.), Nicetown, Phila., Pa.
Pardee, C. Works (Open Hearth), Perth Amboy, N. J.

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Parkersburg Iron & Steel Co. ("National" Bessemer Sheets Re-Annealed), Parkersburg, W. Va.
Republic Iron & Steel Co. (Open Hearth), Pittsburg, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Superior Steel Co. (Hot & Colled Rolled Hard & Soft for Stamping & Drawing), Carnegie, Pa.
Sweet's Steel Co. (Open Hearth), Williamsport, Pa.
Union Rolling Mill Co. (Bars, etc.), Cleveland, Ohio
Wood, Alan Iron & Steel Co. (Blue Annealed Sheets & Special Soft Steel for Deep Stamping & Drawing), 1421 Chestnut, Phila., Pa.
Wood, J. & Bros. Co. (Sheets), Conshohocken, Pa.

## 10999– Steel (Spring)

American Tube & Stamping Co., Bridgeport, Conn.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Bethlehem Steel Co. (Open Hearth), South Bethlehem, Pa.
Braeburn Steel Co., Braeburn, Pa.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Colonial Steel Co. (Open Hearth & Crucible), Pittsburg, Pa.
Columbia Steel Co. (Cold Rolled), Elyria, O.
Crucible Steel Co. of America (Crucible Open Hearth), Pittsburg, Pa.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Harrow Spring Co. (Milled Bars & Rods), Kalamazoo, Mich.
Midvale Steel Co., Nicetown, Phila., Pa.
Pennsylvania Steel Co., 1421 Chestnut, Phila., Pa. Works, Steelton, Pa.
Railway Steel Spring Co. (Open Hearth), 30 Church, New York
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Sweet's Steel Co. (Open Hearth), Williamsport, Pa.
Vulcan Crucible Steel Co., Aliquippa, Pa.
Wyoming Shovel Works (Open-Hearth & Crucible), Wyoming, Pa.

## Steel Stacks

(See Smoke Stacks, Steel; also Chimneys, Steel)

## 11000–Steel Structural Dealers

**American Forge & Iron Co.,** 140 W 42d, New York
**Anderson Bridge & Scraper Co., Anderson,** Ind.
Austin & Doten, Boston, Mass.
Bacon & Co., 107 Oliver, Boston, Mass.
Baily, R. M. & Co., Arcade bldg, Phila., Pa.
Balfour, Guthrie & Co., San Francisco, Cal.
Bartholomew, H., Phoenixville, Pa.
Bassett-Presley Co., Cleveland, O.
Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
Blodgett & Clapp Co., Hartford, Conn.
Burne-Fuller Co., Cleveland, O.
Brooks. T. H. & Co., Cleveland, O.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Castle, A. M. & Co., 217 N Jefferson, Chicago, Ill.
Cincinnati Iron Store & Steel Co., Cincinnati, Ohio
Coe-Faitoute Co., Newark, N. J.
Cooke, Jno. K. & Sons, Passaic, N. J.
Davenport Machine & Foundry Co., Davenport, Iowa
Davies, Jno. J. & Co., 20th & Clearfield, Phila., Pa.
De Cou, Richard, 12th & Noble, Phila., Pa.
De Haart & Stafford, 114 Liberty, New York
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Eastern Railway Supply Co., Baltimore, Md.
Eichley, John, Jr., Co., Pittsburg, Pa.
Forest City Steel & Iron Co., Cleveland, O.
Froment & Co., West & Bank, New York
Girvin & Eyre, San Francisco, Cal.
Globe Rolling Mill Co., Cincinnati, O.
**GOFF, HORNER & CO., Ltd. Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Guerber Engineering Co., Bethlehem, Pa.
Halsted, Jos. Co., 1233 W Randolph, Chicago, Ill.
Harrington, Robinson & Co., Boston, Mass.
Hitner's, Henry A. Sons Co., Huntington & Aramingo av, Phila., Pa.
Hoffman, R. C. & Co., Baltimore, Md.
Hofius, W. D. & Co. (Iron, Steel, Locomotive, etc.), Seattle, Wash.
Houston, C. B. & Co., Girard bldg, Phila., Pa.
Houdlette, Fred A. & Son, Boston, Mass.
Jackson, Geo. W. (Inc.), 756 W Jackson blvd., Chicago, Ill., & 46 Wall, New York
Judson Mfg. Co., San Francisco, Cal.
Kansas City Structural Steel Co., Argentine, Kans.
**KRATZER, W. N. & CO., 3218 Smallman,** Pittsburg, Pa. (See adv. index, end of book)
Lindsay, James G. & Co., Arcade bldg, Phila., Pa.
Lindsay, W. W. & Co., Harrison bldg, Philadelphia, Pa.
Lockwood, Arthur J., 35 Wooster, New York
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Mesker, Geo. L. Co., Evansville, Ind.
**MINNEAPOLIS STEEL & MACHIN-**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moffat, F. D. & Co., 81 Fulton, New York
Moore, Edgar M. & Co., Farmers' Bank bldg, Pittsburg, Pa.
Morris, Wheeler & Co., 1608 Market, Phila., Pa.
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
Newkirk, John B. & Co., 1502 Market, Phila., Pa.
Noble Electric Steel Co., San Francisco, Cal.
Ogden & Wallace, 577 Greenwich, New York
Patterson Foundry & Machine Co. (Girders, Columns, Trusses, etc.), East Liverpool, O.

*The largest iron and steel—*

*warehouses in the world*

**STRUCTURAL SHAPES**—Beams, Angles, Channels, Tees, Zees, Rails, Girder Sections and Special Shapes.
**BARS**—Bars, Bands, Hoops, Reinforcing Bars for Concrete Construction, Wagon Box Iron, Special Bars.
**PLATE STEEL**—Fire Box, Marine, Flange, Tank, Sheared and Universal Rolled, Steel Floor Plates.
**SHEET STEEL**—Black, Galvanized, Corrugated, Stamping Steel, Planished Iron, Electrical Sheets.
**BOILER TUBES**—Lapweld Charcoal Iron, Lapweld Steel, Seamless Cold Drawn, Mechanical Tubing.
**RIVETS**—Burden, Iron, Steel Boiler and Structural, Sheet Iron, Tank, Tinners' Rivets, Pound, Etc.

Ulster Special Staybolt Iron, Bailey's Iron Plates, Pressed Steel Boiler Lugs and Hangers, Tool Steel, Glyco Bearing Metal, Morison Corrugated Furnaces, Forged Steel Flanges, McGregor Boiler Braces, Ryerson Steel Separators, Steel Manholes, Cold Rolled Strip Steel, Patch Bolts, Drills, Reamers, Nuts, Bolts.

Lennox Rotary Bevel Shears, Ryerson High Speed Friction Saws, Flue Welding Machinery, Hydraulic Machinery, Steam Hammers, Wall Radial Drills, Valve Seat Facing Machines, Crank Pin Truing Machines, Air Compressors, Bending Rolls, Flue Cleaning Machinery, Cylinder Boring Bars, Lathes, Drill Presses, Flue Cutting Machinery, Punches and Shears, Riveting Machines, Ryerson Flanging Clamps, Boring Mills, Planers, Power Presses, Emery Wheels, Grinders, Cranes, Hoists, Etc., Etc.

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**JOSEPH T. RYERSON & SON**

CLYDE M. CARR, PRESIDENT JOSEPH T. RYERSON, VICE-PRES.

IRON STEEL MACHINERY

CHICAGO

*New York Office: Hudson Terminal Building.*

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Pilling & Crane, Real Estate Trust bldg, Phila., Pa.
Prince Iron Works, 555 W 33rd, New York
**RIESECK, P (All Kinds, from Stock), Allegheny & Rebecca, N S, Pittsburg, Pa.** (See adv. index, end of book)
Ring, Chas. E. & Co., 38 S 8th, Brooklyn, N. Y.
Riter-Conley Mfg. Co., Pittsburg, Pa.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
**RYERSON, JOS. T. & SON (Steel),** 2558 W 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
Scully Steel & Iron Co., Ashland av & 24th, Chicago, Ill.
Southern Foundry Co. (Beams Cut & Punched), Owensboro, Ky.
Spencer, Geo. G., 2 Sherman, Chicago, Ill.
Speddy, T. H., San Francisco, Cal.
Thomson, W. H. & Co., Land Title bldg, Phila., Pa.
Tulsa Boiler & Sheet Iron Works, Tulsa, Okla.
**UNION FOUNDRY WORKS, 38 S. Dearborn, Chicago, Ill.** (See adv. index, end of book)
**WALSH'S SONS & CO. (I Beams,** etc.), Harrison, N. J. (See adv. index, end of book)
**WORDEN-ALLEN CO., P. O. Box 528, Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 11001—Steel Structural Mills

(*Indicates Mills that Fit Structural Work: †Indicates Mills that Roll I Beams)

*†American Bridge Co. (Open Hearth Steel Angles, Beams, Deck Beams, Channels, Tees, Zees, etc.), Pittsburg, Pa.
American Tube & Stamping Co. (Small Steel Angles, Channels, Tees, etc.), Bridgeport, Conn.
†Bethlehem Steel Co. (Bessemer & Open Hearth Angles, Beams, Channels, Tees & Special Wide Flanged Rolled Beams & Girders), South Bethlehem, Pa.
Boonton Iron & Steel Co. (Iron Angles Only), Boonton, N. J.
Buffalo Steel Co. (Bessemer Steel Angles, Channels, Tees, etc.), Tonawanda, N. Y.
Calumet Steel Co. (Bessemer Steel Angles, Channels, Tees, Channel Flats & Small I Beams), Chicago Heights, Ill.
*†Cambria Steel Co. (Bessemer & Open Hearth Steel Angles, Beams, Girders, Channels, Tees, etc.), Johnston, Pa.
*†Carnegie Steel Co. (Bessemer & Open Hearth Steel Angles, Beams, Girders, Channels, Tees, Zees, etc.), Pittsburg, Pa.
Central Iron & Steel Co. (Universal Bridge & Structural Plates), Harrisburg, Pa.
Chrome Steel Works (Chrome Steel Angles 3, 4, 6 & 8 Inch), Chrome, N. J.
Colorado Fuel & Iron Co. (Iron & Steel Structural & Other Shapes), Denver, Colo.
Damascus Tool Steel Co. (Steel Angles, Ell Bars, etc.), Pittsburg, Pa.
Davis Bros. (Small Even Leg Iron Angles, 12 to Inch), N. 29th & Bristol, Phila., Pa.
Dempsey, M. J. Standard Rolling Mill (Iron Angles Only), 40th & 11th av., New York
*†Eastern Steel Co. (Open Hearth Steel Angles, Beams, Channels, Tees, etc.), Pottsville, Pa.
Glasgow Iron Co. (Iron & Steel Bridge Plates), Pottstown, Pa.
Hollidaysburg Iron & Nail Co. (Channel Iron Only), Hollidaysburg, Pa.
Hirsch Rolling Mill Co. (Iron & Steel Angles & Shapes), St. Louis, Mo.
*†Illinois Steel Co. (Bessemer & Open Hearth Steel Angles, Beams, Channels, Tees, etc.), Commercial Bank bldg., Chicago, Ill.
*Inland Steel Co. (Open Hearth Steel Angles, I Beams, Channels, Tees, etc.), 1st Nat. Bank bldg., Chicago, Ill.
Interstate Iron & Steel Co. (High Carbon Steel & Iron & Soft Steel Angles, Channels, Tees, etc.), 1st Nat'l Bank bldg, Chicago, Ill. Works, Cambridge, O.
Joliet Rolling Mill Co. (Angle Iron & Shapes), Joliet, Ill.
*†Jones & Laughlin Steel Co. (Angles, Beams, Channels, Tees, etc.), Pittsburg, Pa.
Judson Mfg. Co. (Structural & Agricultural Shapes), San Francisco, Cal.
Knoxville Iron Co. (Light Sections of Angle & Channel Iron). Knoxville, Tenn.
*†Lackawanna Steel Co. (Bessemer & Open Hearth Angles, Beams, Channels, Tees, etc.), Buffalo, N. Y.
Licking Rolling Mill Co. (Iron Angles & Tees & Charcoal Angles & Tee Iron), Covington, Ky.
Lockhart Iron & Steel Co. (Bridge Iron & Iron & Steel Angles & Channels), Pittsurg, Pa.
Logan Iron & Steel Co. (Bridge Iron & Angles), Burnham, Pa.
Lucknow Iron & Steel Co. (Iron & Steel Bridge Plates & Angle Iron), Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth Steel Ship & Bridge Plate). Coatesville, Pa.
Ohio Falls Iron Co. (Iron Square Root Angles for Safe Mfrs.), New Albany, Ind.
Old Dominion Iron & Nail Works (Bridge Iron). Richmond, Va.
Penna. Brake Beam Co. (Deck & I Beams, Brake Beams, etc.), Danville, Pa.
*†Penna. Steel Co. (Bessemer & Open Hearth Steel Angles, Channels, Tees, etc.), 1421 Chestnut, Phila., Pa. Works, Steelton, Pa.
Penn Iron Co. (Iron for Bridge Work), Lancaster, Pa.
*†Phoenix Iron Co. (Open Hearth Steel Angles, Beams, Channels, Tees, Bridge Plates, etc.), 410 Walnut, Phila., Pa. Works, Phoenixville, Pa.
Reading Iron Co. (Angle Iron & Iron & Steel Angle Bars), Reading, Pa.
Red Oak Bridge & Iron Works, Red Oak, Ia.
Republic Iron & Steel Co. (Light Iron Angles & Channels; also Open Hearth Steel Angles), Pittsburg, Pa.
Sharon Steel Hoop Co. (Light Steel Channels), Sharon, Pa.
Sweet's Steel Co. (Open Hearth Steel Angles & Channels), Williamsport, Pa.
Tennessee Coal, Iron & R. R. Co. (Open Hearth Steel Angles, Channels, Tees, etc.), Birmingham, Ala.
Tredegar Co. (Bridge Iron), Richmond, Va.
Union Rolling Mill Co. (Bridge Iron), Cleveland, O.
Worth Bros. Co. (Steel Plates for Structural & Tank Work), Coatesville, Pa.

## 11002—Steel Structural Shapes (Mfrs.)

(See Steel Structural Mills)

## 11003—Steel Structural Work

(Star (*) Indicates Firms who also Build Steel Bridges)

### ALABAMA.

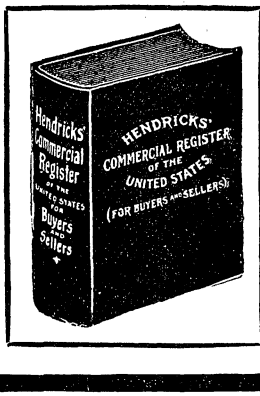
BIRMINGHAM—*Southern Bridge Co.

### CALIFORNIA.

FRESNO—Burnett, J. H. Iron Works
LOS ANGELES—Mercereau Bridge & Const. Co.
MARYSVILLE—Yuba Construction Co.
SAN FRANCISCO—*Atlantic Gulf & Pacific
*American Bridge Co., Crocker bldg Co.
*Bay City Iron Works, 1243 Harrison
*Berkeley Steel Co., 628 Montgomery
Brode Iron Works, 621 Hoard
California Artistic Metal & Wire Co., 539 Mission
Central Iron Works
*Clinton Bridge & Iron Works, Crocker Bldg.,
Dyer Bros., 17th & Kansas 349 7th
*Healy-Tibbitts Construction Co., 628 Market
*Hyde-Harjes & Co., 13 Stewart
Jackson, P. H. & Co., 228 1st
Judson Mfg. Co., 819 Folsom
*Pacific Construction Co., 17 Spear
Pacific Structural Iron Works
*San Francisco Bridge Co., Monadnock Blk.
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)
*Thomson Bridge Co., 103 Main
Western Iron Works, 123 Beale
Woods & Huddart

### COLORADO.

COLORADO SPRINGS—Hassell Iron W'ks Co.
DENVER—*American Bridge Co.
Browne, Frank O., 1414 Glenarm
Denver Engineering Works Co.
*Patterson, M. J. Contracting Co.
Pioneer Iron & Wire Works, 1433 Market
Queen City Iron & Wire Works Co.
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)
*Vulcan Iron Works Co., 1715 Blake
PUEBLO—*Pueblo Bridge Co.




It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of trade that comes within the scope of the work. : : : : : : : : :

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## CONNECTICUT.

BERLIN—*Berlin Construction Co.
BRIDGEPORT—Bridgeport Boiler Works Co.
EAST BERLIN—*American Bridge Co.
NEW HAVEN—Waas, Jules
NEW LONDON—*Scott, T. A. Co.
WEST HAVEN—*Alderhurst Iron Co.

## DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 618 11th N W
*Brown-Ketcham Iron Works, Colorado bldg
Jorss, A. F., 315 13th, N W
Schneider, C. A. Sons, 212 12th, N W
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)

## GEORGIA.

ATLANTA—*American Bridge Co.
Atlanta Machine Works
Atlanta Structural Steel Co.
Austin Bros.
Gude & Son
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)
*Virginia Bridge & Iron Co.
Walker, R. M.
AUGUSTA—*Lombard Iron Works & Supply
NEWNAN—*Cole, R. D. Mfg. Co. Co.

## ILLINOIS.

AURORA—*Love Bros. (Inc.)
BATAVIA—*Batavia Engineering Works (Inc.)
CHICAGO—*American Bridge Co., Commercial Bank bldg
Bolter's, A. Sons, 84 La Salle
Brandes, Carl, 1323 Otto
Bryan, E. A. Co., First National Bank bldg
*Chicago Bridge & Iron Works (Horace E. Horton, Prop.), Throop & W 105th
Chicago Iron & Steel Works, 733 Fulton
**CHICAGO SIDEWALK LIGHT CO.** Shields av & 33d. (See adv. index, end of book)
*Continental Bridge Co., Monadock Blk
Dauchy Iron Works, 223 W Illinois
Dearborn Foundry Co., 1525 Dearborn
Gage Structural Steel Co., 2462 S Paulina
Halsted, Joseph Co., 1233 W Randolph
Hansell-Elcock Co., 251 23d pl
Heinemann, Louis, 819 Melrose
Holmes, Pyott & Co., 13 N Jefferson
*Illinois Bridge Co., Monadnock blk
*Illinois Steel Co., 115 Adams
*Jackson, Geo. W. (Inc.), 756 W Jackson boul
***Jennet Bridge & Iron Works, 3541 Shields av**
***Joliet Bridge & Iron Co., 109 Randolph**
Kelly-Atkinson Construction Co., 188 Madison
***Kenwood Bridge Co., 1st Nat'l Bank Bldg**
Larson, O., 300 W. Erie
*McClintic-Marshall Construction Co., 1st Nat'l Bank bldg
***Milwaukee Bridge Co., 164 Dearborn**
*Morava Construction Co., 85th & Stewart
***Phoenix Bridge Co., The Rookery av**
Pratt, Henry Co., 2222 S Halsted
Scaar & Sullivan Co., 1042 W 11th
*Scherzer Rolling Lift Bridge Co. (Rolling Lift Bridges), 1616 Monadnock blk
Roemheld Construction Co., Security Bldg.
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON** Works, Lake & Dearborn. (See adv. index, end of book)
Standard Construction Co., 164 Dearborn
**STEWART, JAS. & CO. (Mills & Railway Depots), Fisher bldg**
*Strauss Bascule Bridge Co., Fort Dearborn bldg
***STROBEL STEEL CONSTRUCTION** Co., Monadnock blk
**UNION FOUNDRY WORKS, 38 S** Dearborn. (See adv. index, end of book)
Variety Mfg. Co. (Light Work for Building), Sacramento & Carroll av
Vierling Steel Works, 23d & Stewart av
***Wisconsin Bridge & Iron Co., Monadnock blk**
**WORDEN-ALLEN CO., Commercial National Bk. Bldg**
DECATUR—*Decatur Bridge Co.
FREEPORT—*Shons, W. H. (Highway Bridges)
GALESBURG—*Schwartz, D. H. & Son
JACKSONVILLE—*Illinois Steel Bridge Co.
JOLIET—*Joliet Bridge & Iron Co.
PEORIA—*Lucas, A. & Sons
QUINCY—***MICHELMANN STEEL CONSTRUCTION CO.** (See adv. index, end of book)
ROCHELLE—*Billmire Bridge & Iron Wks. Co.
ROCKFORD—*Rockford Boiler & Steel Co.
SPRINGFIELD—*Springfield Bridge & Iron Co.

## INDIANA.

ATTICA—*Attica Bridge Co.
BEDFORD—Stone City Steel Construction Co.
BUTLER—Butler Co. (Substructures)
COLUMBUS—*Caldwell & Drake Iron Works
EAST CHICAGO—**GRAVER, WM. TANK** Works. (See adv. index, end of book)
ELKHART—*Elkhart Bridge & Iron Co.
EVANSVILLE—Mesker, Geo. L. & Co.
FORT WAYNE—Kerr-Murray Mfg. Co. (Gas
FRANKFORT—*Ross, John A. House, etc.)
INDIANAPOLIS—*Brown-Ketcham Iron Works (Bridges, Buildings & Viaducts)
*Central States Bridge Co.
*Indianapolis Bridge & Iron Works
Noelke-Richards Iron Works, 180 E Palmer
Parkhurst Machinery Co., 218 Kentucky av
LAFAYETTE—*Lafayette Engineering Co.
Wallace Machine & Foundry Co. (Also Castings)
MUNCIE—*Indiana Bridge Co.
NEW CASTLE—*Pan-American Bridge Co.
ROCHESTER—*Rochester Bridge Co.
SOUTH BEND—Folsom, C. G. Mfg. Co.
South Bend Foundry Co.
TERRE HAUTE—*Parker, Thatcher A. Co.
VINCENNES—*Vincennes Bridge Co.
WINAMAC—*Winamac Bridge Works

## IOWA.

ATLANTIC—Hunter, S. G. Iron Works Co.
CEDAR RAPIDS—Carmody Foundry & Machine Co.
CLINTON—*Clinton Bridge & Iron Works
COUNCIL BLUFFS—*Wise, G. C. & Co.
DAVENPORT—Davenport Machine & Foundry
DES MOINES—Central Iron Works Co.
***DES MOINES BRIDGE & IRON** Co., 9th & Tuttle. (See adv. index, end of book)
*Des Moines Structural Steel Works
*Federal Bridge Co.
*Iowa Bridge Co.
***King, G. M. Construction Co.**
Magden & Sheeley
*Marsh Engineering Co.
*Stark, N. M. & Co.
DUBUQUE—Dubuque Boat & Boiler Works
Voggenthaler, E. J. Co.
MARSHALLTOWN—Shorthill, A. E. Co.
MUSCATINE—Niver Iron Works Co.
OSKALOOSA—*Seevers Mfg. Co.

## KANSAS.

ARGENTINE—*Kansas City Structural Steel Co.
GALENA—Galena Foundry & Machine Co.
LEAVENWORTH—Leavenworth Bridge Co.
*Missouri Valley Bridge & Iron Co.
TOPEKA—Capital Iron Works Co.
*Topeka Bridge & Iron Co.
WICHITA—Wichita Construction Co.

## KENTUCKY.

LEXINGTON—*Empire Bridge Co.
LOUISVILLE—Grainger & Co. (Inc.).
*Louisville Bridge & Iron Co.
National Foundry & Machine Co.
*Snead Architectural Iron Works.

## LOUISIANA.

NEW ORLEANS—*American Bridge Co., Hennen bldg
Bedell Structural Steel & Foundry Co., Magnolia, Erato & Clase
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)
**STEWART, JAS. & CO. (Mills & Railway Depots), Hibernia Bank bldg**
Sutton's Foundry & Iron Works

## MAINE.

BANGOR—Union Iron Works
PORTLAND—Fletcher & Crowell Co.
Megquier & Jones Co.

## MARYLAND.

BALTIMORE—*American Bridge Co., Continental Trust bldg
Armstrong & Parker, 361 North
Baltimore Foundry Co.
*Baltimore Bridge Co., Bush & B. & O. R.R.
*Bartlett, Hayward Co., Continental bldg
Chesapeake Iron Works
Dietrich Bros., 344 North
*Lauer & Harper Co. (Inc.), Westport
Maryland Iron Works (Inc.)
Phoenix Iron Co., Continental bldg

## MASSACHUSETTS.

BOSTON—*American Bridge Co., 89 State
*Berlin Construction Co., 131 State
*Boston Bridge Works, 47 Winter
*Brown-Ketcham Iron Works (Bridges, Buildings & Viaducts), 166 Devonshire
Cheimsford Foundry Co., Myrtle st, Medford
Eastman, H. T. & Co., 12 Pearl
Ham, L. M. & Co., 152 Portland
Harrington, Robinson & Co.
*New England Structural Co., 110 State
*Penna. Steel Co., 70 Kilby
*Smith, G. W. & F. Iron Co., Gerard & Island, Rox.
Smith & Lovett Co., 125 Albany
EVERETT—*New England Structural Co.
MEDFORD—Chelmsford Foundry Co.

ESTABLISHED 1865 INCORPORATED 1900

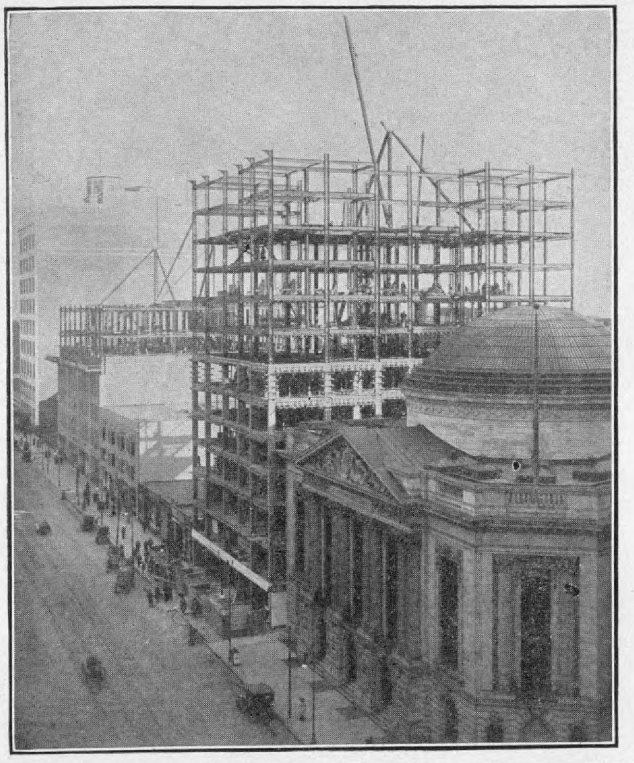
MICHELMANN STEEL CONSTRUCTION COMPANY

STEAM BOILERS
SMOKE STACKS
RIVETED PIPES

STEEL TANKS for Air, Oil, Water
STAND PIPES
STEEL TOWERS
HIGHWAY BRIDGES
STRUCTURAL STEEL for Buildings

QUINCY, ILL.

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THE FOREST CITY STEEL & IRON CO.

STEEL BUILDINGS

STRUCTURAL SHAPES IN STOCK
FOR QUICK DELIVERY

ORNAMENTAL IRON AND
HEAVY WIRE WORK

The illustration shows a section of lower Euclid Avenue, Cleveland.
City Investment Building and Cleveland Athletic Club, under simultaneous construction, by

THE FOREST CITY STEEL & IRON CO.

CLEVELAND, O.

# STEEL CONSTRUCTION

## Mill Buildings, Trestles, Tipples, Girders, Trusses and Columns

DESIGNED, MANUFACTURED and ERECTED IN ALL PARTS OF THE WORLD

ALWAYS IN STOCK **Structural Materials** PROMPT SHIPMENTS

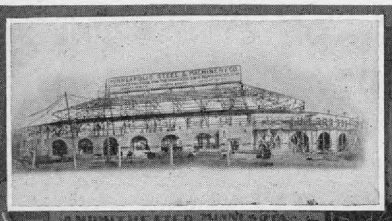
## SHEET and PLATE STEEL WORK

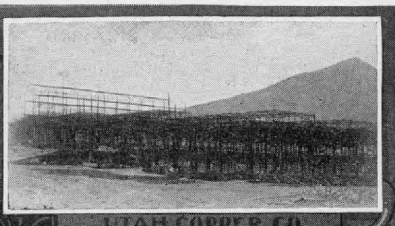
Riveted Steel Pipe, Smoke Stacks, Steel Tanks for Every Purpose

FOUNDED 1802

## WM. B. SCAIFE & SONS CO. - - Pittsburgh, Pa.


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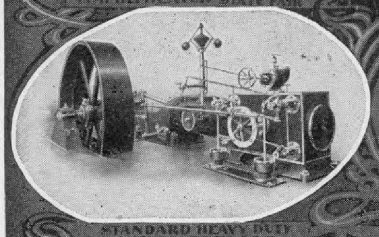


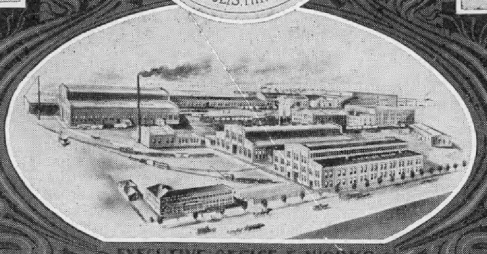


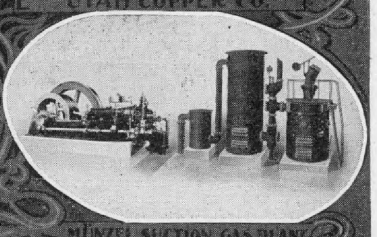
MINNEAPOLIS STEEL AND MACHINERY CO.
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Southern Stamp Co., Little Rock, Ark.
Spokane Stamp Works, Spokane, Wash.
Stafford, Nelson Co. (Steel), 67 Fulton, New York
Steiner Engraving & Badge Co., St. Louis, Mo.
Stencil Treasury (Steel), 209 E 59th, New York
Sternberg, Albert E., 214 Arch, Phila., Pa.
Stewart & Holiman, 201 B'way, New York
Swisher, R. D. Mfg. Co. (Brass), 411 S Clinton, Chicago, Ill.
Tenney, J. F. Co., 210 S Water, Chicago, Ill.
Timme, E. A. & Sons, Worcester, Mass.
Utermohle, G. A. & Co., 220 E Pratt, Baltimore, Md.
Weber-Erickson Bunting Co., Pittsburg, Pa.
Williams, Chas. F. & Co. (Steel), 38 Chardon, Boston, Mass.
Wright, Gregory G. & Son, Cincinnati, O.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 11015—Steps (Automobile)

Columbus Bolt Works, Columbus, O.
English & Mersick Co., New Haven, Conn.
Q. M. S. Co. ("Stanwood"), Plainfield, N. J.

## 11016— Steps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
American Shovel & Stamping Co., Lorain, O.
**AMERICAN STEEL & WIRE CO.** ("American"), Commercial Nat. Bank bldg. Chicago, Ill. (See adv. index & branch offices, end of book)
Boston Bolt & Iron Co., 40 Farnsworth, Boston, Mass.
Columbus Bolt Works, Columbus, O.
Cutter, Geo. Co. (Removable), South Bend, Ind
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Grabler Mfg. Co., Cleveland, O.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Inland Steel Co. (Bessemer Steel), 1st Nat'l Bank bldg., Chicago, Ill.
Kansas City Bolt & Nut Co., Kansas City, Mo
Lanz, Matthew & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Morris Iron Co., 90 West, New York. Works: Frederick, Md.
New Castle Forge & Bolt Co., New Castle, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Strieby & Foote Co., Newark, N. J.

## 11017— Steps (Sewer)

Lanz, M. & Sons, Pittsburg, Pa.

## 11018— Stereometers

Bausch & Lomb Optical Co., Rochester, N. Y.

## 11019— Stereopticons

Beseler, Chas. Co., 251 Centre, New York
Buckeye Stereopticon Co., Cleveland, O.
Enterprise Optical Mfg. Co., 562 W Randolph, Chicago, Ill.
McAllister, T. H. Co., 49 Nassau, New York
McIntosh Stereopticon Co., 35 Randolph, Chicago, Ill.
Martin, Edward P. Co., 821 N Franklin, Chicago, Ill.
Miles Bros., 259 6th av, New York
Thompson, Albert T. & Co., Boston, Mass.
Underwood & Underwood (Inc.), 3 W 19th, New York
Williams, Brown & Earle (Inc.), 918 Chestnut, Phila., Pa.

## 11020— Stereoscopes

Keystone View Co., Meadville, Pa.
Underwood & Underwood, 3 W. 19th, New York
Walbridge, H. & Co., North Bennington, Vt.
White, H. C. Co., North Bennington, Vt.

## 11021—Sterilizers (Water)

American Sterilizer Co. (For Hospitals, etc.), Erie, Pa.
Castle, Wilmot Co., Rochester, N. Y.
Forbes Co., 1234 Callowhill, Phila., Pa.

## 11022—Sterilizing Apparatus

American Sterilizer Co. (For Hospitals, etc.), Erie, Pa.
Bausch & Lomb Optical Co., Rochester, N. Y.
Bernstein Mfg. Co. (For Hospitals), 3d & Allegheny av, Phila., Pa.
Bramhall, Deane Co. (For Hospitals, etc.), 264 Water, New York
Climax Machinery Co. (For Milk), Indianapolis, Ind
Erie City Mfg. Co. ("Superior," Cabinet), Erie, Pa.
Steam Carriage Boiler Co., Oswego, N. Y.
Toledo Cooker Co. (Milk), Toledo, O.
Twentieth Century Machinery Co., Milwaukee, Wis.
**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 11022a— Stickers (Bill)

**TURNER & SEYMOUR MFG. CO.**, Torrington, Conn. (See adv. index, end of book)

## 11023— Sticks (Cutter)

Menasha Mfg. Co. (For Paper Mills), Menasha Wis.

## 11024—Sticks (Track Switch)

**Strieby & Foote Co., Newark, N. J.**

## 11025— Stills (Acid)

Bethlehem Foundry & Machine Co., So. Bethlehem, Pa.

## 11026—Stills (Alcohol, Rum, Etc.)

Baeuerle & Morris, 932 N Front, Phila., Pa.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Lummus, Walter E. (Specialty Wood Alcohol), Boston, Mass.
Stuart & Petersen Co., Burlington, N. J.

## 11027—Stills (Cast Iron)

United States Cast Iron Pipe & Foundry Co., 71 B'way, New York

## 11027a—Stills (Cheese Box)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 11028— Stills (Copper)

American Copper & Brass Works, Cincinnati, O.
American Copper & Iron Works, Milwaukee, Wis.
**BADGER, E. B. & SONS CO., 75 Pitt,** Boston, Mass. (See adv. index, end of book)
Burkhard, Thomas, 494 Flushing av, Brooklyn,
Case, W. A. & Son, Buffalo, N. Y. N. Y.
Engel & Kirchheiner, Baltimore, Md.
Flynn, W. S., Jersey City, N. J.
**GRISCOM-SPENCER CO. (Brass & Copper),** 90 West, New York. (See adv. index & branch offices, end of book)
Harris, Arthur & Co., 212 N Curtis, Chicago, Ill.
Joachum, Andrew, 148 E 50th, New York
Kast Copper & Sheet Iron Co., Buffalo, N. Y.
Laubenheimer, Geo. E. Co., 2908 Carroll av, Chicago, Ill.
McMillan Bros. Co. (Turpentine), Mobile, Ala.
Roos', August Son Copper Works, 232 W 27th, New York
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Street, R. R. & Co., 184 Wash'n, Chicago, Ill.
Tragesser, John Steam Copper Works, 457 W 26th, New York
Vulcan Copper Works Co., Cincinnati, O.
Wasels Copper Works, 50 N 3d, Brooklyn, N. Y.
Zobler, Otto Mfg. Co., 336 N Oakley av, Chicago, Ill.

## 11029—Stills (Oil, Tar, Etc.)

(See also Sugar Machinery)

**CANTON BOILER & ENGINEERING Co., Canton, O.** (See adv. index, end of book)
Carroll-Porter Boiler & Tank Co., Pittsburg, Pa.
Connell, J. D. Iron Works Co. (Also Turpentine), New Orleans, La.
Dimmick Pipe Co., Birmingham, Ala.
Gas Machinery Co., Cleveland, O.
**GRAVER, WM. TANK WORKS (For Oil Refineries),** East Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn Exchange** Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Lacy Mfg. Co., Los Angeles, Cal.
Leslie, Elliott & Co., Paterson, N. J.
Logan Iron Works, 42 Commercial, Brooklyn,
McCabe Boiler Works, Newark, N. J. N. Y.
**MacKINNON BOILER & MACHINE Co., Bay City, Mich.** (See adv. index, end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Commonwealth bldg, Pittsburg, Pa. Works: Queens Junction, Pa.
Sharon Boiler Works, Sharon, Pa.
Smith, Samuel & Son Co., Paterson, N. J
Stier, Herman Mfg. Co., 1332 N Halsted, Chicago, Ill.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Teachout, H. E. Boiler Works, Cleveland, O.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.

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## 11030—Stills (Pharmaceutical)

**Burkhard, Thomas, 494 Flushing av, Brooklyn, N. Y.**
**Colton, Arthur, 184 Brush, Detroit, Mich.**
Day, J. H. Co., Cincinnati, O.
**Eimer & Amend, 18th & 3d av, New York**
**Stokes, F. J. Machine Co., 902 Thompson, Phila., Pa.**

## 11031—Stills (Soap Makers')

Houchin, Aiken Co., 37-53rd, Brooklyn, N. Y.
Sowers Mfg. Co. ("Dopp"), Buffalo, N. Y.

## 11031a— Stills (Steam)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 11032— Stills (Water)

American Copper & Brass Works, Cincinnati, Ohio
American Sterilizer Co., Erie, Pa.
**BADGER, E. B. & SONS CO., 75 Pitt,** Boston, Mass. (See adv. index, end of book)
**Barnstead Pure Water Still Co., 107 Portland,** Boston, Mass.
Bausch & Lomb Optical Co., Rochester, N. Y.
Castle, Wilmot Co., Rochester, N. Y.
**GRISCOM-SPENCER CO. (Also Salt** Water), 90 West, New York (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**Palatable Water Still Co., Whipple, Boston.** Mass.
Sanitary Water Still Co., Brooklyn, N. Y.
Schutte & Koerting Co. (Also for Salt Water), 1251 N 12th, Phila., Pa.
Sugar Apparatus Mfg. Co., 326 Chestnut, Phila., Pa.
Wagner Water Still Co. (Automatic), 109 Randolph, Chicago, Ill.
Young, E. R. & Sons. Titusville, Pa.

## 11033—Stills (Wine Testing)

iTagliabue, Chas. J. Mfg. Co., New York

## 11033a— Stills (Wood)

(See also Tanks, Wood)

**BALTIMORE COOPERAGE CO., THE** (For Distillers & Tar Mfrs.), c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 11034—Stirrups or Hangers

**Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.**
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
**Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.**
Dietrich Bros., 344 North, Baltimore, Md.
Frelinger, J. G. Iron Works, Cincinnati, O.
**Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.**
**Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.**
**Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.**
Love Bros. (Inc.), Aurora, Ill.
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Mulvey, Chas. Mfg. Co., 1539 W 35th, Chicago, Ill.
National Supply Co., Baltimore, Md.
O'Leary, Arthur J. & Son Co., 652 W Lake, Chicago, Ill.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Pawtucket Mfg. Co. (Stirrups Only), Pawtucket, R. I.
Peters, Jas & Son (Wrought Iron, Stirrups), 1934 N Front, Phila., Pa.
Pittsburg Rivet Co., 38th & R. R., Pittsburg, Pa.
Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.
**RIESECK, P. (Wrought Steel), Allegheny** av & Rebecca, N S, Pittsburg, Pa. (See adv. index, end of book)
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y., & Rock Falls, Ill.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**STEWARD & ROMAINE MFG. CO.,** 124 N 6th, Philadelphia, Pa. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON WORKS.** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Variety Mfg. Co. ("Mulvey" Stirrups), Sacramento & Carrol av. Chicago, Ill.
Wendt, Albert (Truss Stirrups), 456 E 2d, Cincinnati, O.

## 11035— Stocks Marks

**Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.**

## 11036— Stocks (Horse)

Barcus, Geo. & Co., Wabash, Ind.
Champion Horse Stock Co., Los Angeles, Cal.
Hemphill Horse Stocks Co., Rensselaer, Ind.

## 11037— Stocks & Dies

(See also Screw Plates)

Acme Machinery Co., Cleveland, O.
**AMERICAN TAP & DIE CO. (Blacksmiths'** & Pipe), Greenfield, Mass. (See adv. index, end of book)
**ARMSTRONG MFG. CO. (Pipe Threading,** etc.), 278 Knowlton, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Ashcroft Mfg. Co. (Pipe), 85 Liberty, New York
Bay State Tap & Die Co. (Solid Screw Plate Stocks, etc.), Mansfield, Mass.
Besly, Chas. H. & Co. ("Badger" Die & Stock Set), 124 N Clinton, Chicago, Ill.
Borden Co. ("Duplex," "Beaver" Adjustable Die Stocks), Warren, O.
Borden Co. ("Beaver" Adjustable Die Stocks), Warren, O.
Brubaker, W. L. & Bros. ("Armstrong" Pattern Adjustable), Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Conant & Donaldson Co. ("Little David"), Conway, Mass.
Connecticut Tool Co. (Adjustable Pipe Threading), Bridgeport, Conn.
Crane Co. (Est. 1855) (Pipe Threading, etc.), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co. (Solid, Adjustable & Screwing), Bridgeport, Conn.
Crown Die & Tool Co. ("Crown", Solid Dies), 107 N Canal, Chicago, Ill.
Curtis & Curtis Co. ("Forbes" Patent Pipe), Bridgeport, Conn.
Enterprise Windmill Co. (Ratchet Pipe Threading), Sandwich, Ill.
Handy Mfg. Co. ("Handy"), 71 W B'way, New York
Hart Mfg. Co. ("Buckeye," "Duplex" Adjustable Ratchet Die Stocks), Cleveland, O.
Hollands Mfg. Co. (Pipe), Erie, Pa.
Holroyd & Co. ("Holroyd"), Waterford, N. Y
Jarecki Mfg. Co. (Pipe Threading, etc.), Erie, Pa., & Pittsburg, Pa.
**KEMP, C. M. CO. ("Climax" Ratchet** Stocks), 401 E Oliver, Baltimore, Md. (See adv. index, end of book)
Keystone Die Stock Co. ("J. J. Delehant's Keystone" Die Stocks), 652 W 47th, Chicago, Ill.
King, J. M. & Co. (Blacksmiths' & Machinists'), Waterford, N. Y.
Lowell Wrench Co. (Ratchet Die Stocks), Worcester, Mass.
**MORSE TWIST DRILL & MACHINE** Co. (Screw Plates & Dies), New Bedford, Mass. (See adv. index, end of book)
Nye Tool & Machine Works ("Nye" Solid Die Stocks & Adjustable Hand Stocks), 108 S Jefferson, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Oster Mfg. Co. ("Oster," "Bull Dog," Rachet, Stock & Die), 2057 E 61st pl, Cleveland, O.
Oswego Tool Co. ("Armstrong" Patent), Oswego, N. Y.
Pancoast, Hy. B. & Co. (Pipe Threading, etc.), 243 S 3d, Philadelphia, Pa.
Peck, Stow & Wilcox Co. (Rachet Drill Stocks), Southington, Conn.
Polk, A. J. & Son (Pipe), Millersburg, Pa.
Pratt & Whitney ("Whitney" Ratchet Drill Stock), Hartford, Conn.
Reed Mfg. Co. (Adjustable & Solid), Erie, Pa.
Robbins, Gamwell & Co. (Die Stocks), Pittsfield, Mass.
Saunders, D. Sons (Pipe Threading, etc.), Yonkers, N. Y.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
Standard Engineering Works (Hand), Ellwood City, Pa.
Threading Machine Co. ("Sandusky" Die Stock), Sandusky, O.
Walworth Mfg. Co. ("Hall," Pipe Threading, etc.), 132 Federal, Boston, Mass.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co. ("Economy" Pipe Threading), Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Lightning," "Green River"), Greenfield, Mass.
Winter Bros. Co. (Die Stocks), Wrentham, Mass.

## 11038—Stokers ("Roney" Mechanical)

(See also Mechanical Stokers)

**WESTINGHOUSE MACHINE CO.,** Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)

## 11039—Stone (Artificial Building)

(See also Blocks, Hollow Concrete Building)

Buffalo Litholite Co., Buffalo, N. Y.
Durolithic Co., 460 Ellicott sq, Buffalo, N. Y.
Eilbacher, Chas., 32 4th, Elizabeth, N. J.
McCarrol Compo Stone Co., Jacksonville, Fla.
Miracle Pressed Stone Co., Sioux Falls, S. Dak.
New England Stone Co. (For All Purposes), 447 Grand av, New Haven, Conn.
Onondago Litholite Co., Syracuse, N. Y.
Rackle, Geo. & Son Co., Cleveland, O.
Standard Concrete Mfg. Co., 260 Clarkson, Brooklyn, N. Y.
Wichita Hydraulic Stone & Brick Co., Wichita, Kan.

## 11040— Stone (Bridge)

**INDIANA QUARRIES CO., Marquette** bldg, Chicago, Ill. Quarries & Mills: Bedford, Ind. (See adv. Front Cover)
**OHIO QUARRIES CO., Citizens' bldg,** Cleveland, O. Quarries & Mills: Amherst, O.

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BRIDGEPORT, CONN.
248 Canal St., New York, N. Y.
175 N. Jefferson St., Chicago, Ill.

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# Stone Crabs (Hook & Chain)

(See Crabs, Hoisting)

# 11041– Stone (Crushed)

(See also Trap Rock; also Granite Producers, Workers, etc.; also Stone Producers, Workers, etc.; also Stone Screenings)

## ARKANSAS.

FORT SMITH—Fort Smith Crushed Stone Co.
LITTLE ROCK—Big Rock Stone & Construction Co.

## CALIFORNIA.

COLTON—California Portland Cement Co. (Limestone)
LOS ANGELES—California Portland Cement Co. (Limestone)
Quartz Glass & Mfg. Co. (Crushed Marble & Granite)
SAN FRANCISCO—Gray Bros. Crushed Rock Co. (Trap Rock)
Western Building Material Co.

## CONNECTICUT.

ANSONIA—Ansonia Trap Rock Co.
BRIDGEPORT—Burns Co.
Pierce, B. D., Jr. (Trap Rock, etc.), 122 Bank
EAST HAVEN—Eureka Trap Rock Quarry Co.
HARTFORD—Keenan, D. F. (Trap Rock)
MERIDEN—Connecticut Trap Rock Quarries Lane Quarry Co.
NEW BRITAIN—Cadwell, Chas. B.
NEW HAVEN—Blakeslee, C. W. & Sons
Connecticut Trap Rock Quarries (Trap Rock)
NORWICH—Torrance, Archibald
PLAINVILLE—Cook Stone & Ice Co.

## DELAWARE.

WILMINGTON—Delaware Granite & Mining Co.
Stewart & Donohue
Warren, Chas. Co.

## DISTRICT OF COLUMBIA.

WASHINGTON—Smith, Chas. G. & Son, 3218 K, N W

## FLORIDA.

TAMPA—Tampa Crushed Rock Co.

## GEORGIA.

ATLANTA—Johnson, D. W.
Whitestone Marble Co. (Marble)
AUGUSTA—Lithonia Crushed Stone Co.
ELLIJAY—North Georgia Marble Co.
LITHONIA—Granite City Crushed Stone Co.

## ILLINOIS.

ALTON—Armstrong, Jno. Lime & Quarry Co. (Limestone)
BELLWOOD—O'Laughlin, A. C. Co.
CHICAGO—American Granite Co. (Granite), 138 Wash'n
Brownell Improvement Co. (Limestone, also Concrete Stone), Cham of Com bldg
Chicago Contractors' Supply Co., 5835 Loomis
Chicago Crushed Stone Co., 108 La Salle
Chicago Union Lime Works Co., 138 Washington
Dolese Bros. Co. (Limestone), 78 La Salle, Chicago, Ill.
Dolese & Shepherd Co. (& Granite), 184 La Salle
Illinois Stone Co., 2147 Lumber
La Grange Stone Co., Grand Central Passenger Station
Lake Shore Sand Co. (Gravel), 138 Wash'n
Montgomery, F. M., 108 La Salle
O'Laughlin, A. C. Co., 138 Wash'n
Producers' Supply Co., 138 Washington
Stearns Lime & Stone Co. (Limestone), 165 E Randolph
Tuthill Building Material Co., 131 W 63d
United States Crushed Stone Co., 184 La Salle
Universal Crushed Stone Co., 184 La Salle
Waushara Granite Co., 172 Washington
Western Stone Co., Chamber of Com. bldg
Wisconsin Granite Co. (Granite), Chamber of Com. bldg
DIXON—City Plant
EAST ST. LOUIS—East St. Louis Stone Co.
FREEPORT—Ascher, Wm.
JOLIET—Joliet Flux Co.
KANKAKEE—Lehigh Stone Co.
LA GRANGE—La Grange Stone Co.
NAPERVILLE—Dolese & Shepard Co.
PEORIA—Wasson, T. J
QUINCY—Menke, F. W. Stone & Lime Co.
Roeder & Greeman (Limestone)
ROCKFORD—Hart & Page
ROCK ISLAND—Davis, T. B. (Crushed Rubble Limestone)

## INDIANA.

ALEXANDRIA—Alexandria Crushed Stone Co.
Hoosier Rock Wool Co.
EVANSVILLE—Bedford & Nugent
Dalton, H. M. Stone Co.
Eichel Lime & Stone Co. (For Macadam, etc.)
FORT WAYNE—Baltes Stone Co. (Blue Lime-
HUNTINGTON—Erie Stone Co. stone)
Keefer & Bailey
INDIANAPOLIS—A. & C. Stone & Lime Co.
Dell, Frank M.
Yawger, A. J. Co. (Limestone)
Zearing Contractors' Supply Co.
INGALLS—Big Four Crushed Stone Co.
LINTON—Bedford Linton Crushed Stone Co.
MITCHELL—Mitchell Lime Co.
OSGOOD—Ashman, A. B. & Co.
ST. PAUL—Greely, R. E.

## IOWA.

BUFFALO—Dolese Bros. Co. (of Chicago)
DAVENPORT—Le Claire Stone Co.
Linwood Stone Co.
DES MOINES—Ellsworth Stone Co.
Peru Stone & Cement Co.
FORT MADISON—Fort Madison & Appanoose
KEOKUK—McManus & Tucker Stone Co.
STONE CITY—Champion Stone Quarries

## KENTUCKY.

HOPKINSVILLE—Dalton, H. M. Stone Co.
LOUISVILLE—Speed, J. B. & Co.
NEWPORT—Ohio River Stone Co.

## MAINE.

PORTLAND—Maine & New Hampshire Granite Corporation (Granite)

## MARYLAND.

BALTIMORE—American Sand & Stone Co., 616 N Calvert
Atkinson, Jas. H., 29th c. Hampden av.
Beaver Dam Marble Co.
Conway, John T., Stone Quarry Co., 2740 Huntington av
Guilford & Waltersville Granite Co., 3 E Lexington
Hook & Ford Contracting Co., Equitable bldg
Leonard, Daniel A., Builders' Exch bldg
McKannar, Wm. T. & Co., Fayette & Calverton rd
Manning, W. T. & Co., Equitable bldg
Maryland Quarry Co., Gaither Estate bldg
Petersburg Granite Co., 3 E Lexington
Pope, B. F. Stone Co., Law Bldg.
Schwind Quarry Co., Fidelity bldg
Security Cement & Lime Co. (Limestone)
Standard Lime & Stone Co., Equitable bldg
DICKERSON—Standard Lime & Stone Co.
GUILFORD—Guilford & Waltersville Granite Co.
PORT DEPOSIT—McClenahan Granite Co. (Granite)
SECURITY—*Security Cement & Lime Co. (Limestone)

## MASSACHUSETTS.

BOSTON—Beatty Construction Co., Brighton
McMurty, A. J. & G. H., 16 Shepard (Br)
Massachusetts Broken Stone Co., 235 Franklin
Old Colony Broken Stone & Concrete Co., 75 State
**ROCKPORT GRANITE CO.** (Granite, All Sizes), 31 State. (See adv. index, end of book)
Tidewater Broken Stone Co., 75 State
West Roxbury Trap Rock Co., Grove cor Centre, W R
MONSON—Flynt, W. N. Granite Co. (Granite & Trap Rock)
PIGEON COVE—Pigeon Hill Granite Co.
QUINCY—Kavanagh Bros Co.
ROCKPORT—**ROCKPORT GRANITE CO.** (Granite, All Sizes). (See adv. index, end of book)
WALTHAM—Waltham Trap Rock Co.
WEST CHELMSFORD—Fletcher, H. E. Co. (Granite)
WORCESTER—Webb Granite & Construction Co.
Worcester Broken Stone Co.

## MICHIGAN.

ADRIAN—Adrian County Jail
DETROIT—Baitinger, Wm. F.
Calvert's, J. Sons
*Dunbar Stone Co.
Flood, Jas. J. (Limestone)
*Gibralter Quarry Co.
Houghten, Henry
Little, C. H. Co.
Meier, Hubert A.
Michigan Portland Cement Paving Co.
Piggins, Wm. S. & Sons
Rankin, Wm.
*Sibley Quarry Co.
Smith, Jno. Co.
ELK RAPIDS—Elk Cement & Lime Co.
MANISTIQUE—White Marble Lime Co. (Lime-
MONROE—Monroe Stone Co. stone)

## MINNESOTA.

DULUTH—Duluth Crushed Stone Co.
KASOTA—Babcock & Willcox
Breen Stone Co.
MANKATO—Fowler & Pay
MINNEAPOLIS—Barber Asphalt Paving Co.
Blue Limestone Co., 1529 Central av
Kettle River Co. (Sandstone)
Minnesota Crushed Stone Co., 15th & Johnson
NEW ULM—New Ulm Stone Co.
ST. PAUL—Mendota Stone Co.
St. Paul Crushed Stone Co.
SANDSTONE—Kettle River Quarries Co.
WINONA—Biesanz Stone Co.

## MISSOURI.

KANSAS CITY—Lyle Rock Co.
Parker-Washington Co.
Phelps Stone & Supply Co.
ST. JOSEPH—St. Joe Rock Crushing Co.
Young Bros.
ST. LOUIS—Eyerman, G., Jr., & Bro., 1216 S Grand av
Finck Mine & Milling Co., 101 Barton
Glencoe Lime & Cement Co. (Limestone), 915 Olive
Milne & Gordon (Granite), Jefferson & Mo Pac R R
Missouri Granite & Construction Co., 3410 Gratiot
Ozark Red Granite Co. (Granite), Wainwright bldg
Schneider Granite Co. (Granite), 2140 De Kalb

## NEBRASKA.

BLUE SPRINGS—Davis, Geo.
OMAHA—Schall, A. Co.

## NEW JERSEY.

BOUNDBROOK—Boundbrook Crushed Stone Co.
DUNELLEN—Dunellen Lumber & Stone Co.
EAST NEWARK—Van Keuren & Son
JERSEY CITY—Delaware River Quarry & Construction Co. (Railroad, Ballast, etc.)
Van Keuren & Son
LEDGEWOOD—North Jersey Stone Co.
LITTLE FALLS—Ferguson's, Wm. A. Sons.
MIDDLE VALLEY—Middle Valley Trap Rock & Mining Co. (Trap Rock)
MILLBURN—Millburn Trap Rock Co. (Trap Rock)
MORRISTOWN—Morris County Crushed Stone Co.
North Jersey Trap Rock Co.
Paterson Crushed Stone Co.
NEW DURHAM—Belmont Stone Co.
NEWARK—Concrete Building Block Co., 325 Bergen av
Tomkins Bros., 78 Passaic
Upton, F. R. (Sandstone), Union bldg
Van Keuren & Son, Pacific av
PATERSON—McKiernan & Bergin
Paterson Crushed Stone Co.
PLAINFIELD—Bartle, Wm. E.
Smalley, N. B. & Co.
RUTHERFORD—Galloway, E. T.
SCOTCH PLAINS—Fanwood Stone Crushing & Quarry Co.
SUMMIT—Commonwealth Quarry Co.
TOLOWA—Ferguson, Wm.
WEEHAWKEN—Diedoff, J. P.

## NEW YORK.

BUFFALO—Barber Asphalt Paving Co.
Buffalo Cement Co. (Ltd.) (Also Building Dimension & Cut Stone), 110 Franklin
Buffalo Crushed Stone Co., Ellicott sq
General Crushed Stone Co.
German Rock Asphalt & Cement Co., D. S. Morgan bldg

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GOUVERNEUR—Northern Crushed Stone Co.
LE ROY—General Crushed Stone Co. (See South Bethlehem, Pa.)
NEWBURGH—Miller, D. C.

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Bannon, P. & Sons, 129 Richards
Hickey, M. F. Co., 7 N 2d av
Ryan, N. Co., 491 Smith

### Boroughs of Manhattan & Bronx.

NEW YORK—Algie, Robert J., 9 W 67th
Altieri, M. & Sons, Concord av & E 142d
Bradley, Wm. & Son, 90 West
Brady, Jas. B. Co., 525 E 118th
Brooks, Wm. Co., 615 W 49th
Brown, Geo. & Co., 1123 B'way
Cedarcliff Stone Co., 1 B'way
Clinton Point Stone Co., 115 B'way
Conklin & Foss Co., 299 B'way
Leopold, J. & Co. (Granite), 18 B'way
McLaughlin, James Co., 28 W 144th
Manhattan Trap Rock Co., 30 Church
North River Stone Co., 90 West
**PICTON ISLAND RED GRANITE** Co., 320 5th av. (See adv. index, end of book)
Rockland Lake Trap Rock Co. (Hudson River, etc.), 299 B'way
**ROCKPORT GRANITE CO. (Granite, All Sizes)**, 15 Park Row. (See adv. index, end of book)
Storm King Stone Co. (Trap Rock & Granite), 90 West
Thomas, Hugh Co., 425 E 64th
Tomkins, Calvin, 17 Battery pl

### Borough of Queens.

RICHMOND HILL—Eureka Trap Rock Quarry Co. (Quarries, East Haven, Conn.)

### (End of New York City)

ROCKLAND LAKE—Rockland Lake Trap Rock Co.
SYRACUSE—Canal Quarry Co.
TROY—Corliss Construction Co.
UTICA—Conley, F. E. Stone Co. (Limestone & Blue Sandstone)

## OHIO.

BELLEFONTAINE—Bellefontaine Stone & Lime Co.
BELLEVUE—Bellevue Stone Co.
BOOMVILLE—North Baltimore Stone Co.
BUCYRUS—Brokensword Stone Co. (Crushed for Concrete Purposes)
BLUFFTON—Buckeye Stone Co.
CAREY—Nat'l Lime & Stone Co.
CINCINNATI—American Stone Ballast Co., Johnston bldg
Gray, E. F., Builders' & Traders' Exchange
Kirchner Construction Co., 8th & Plum
CLEVELAND—Breakwater Co.
Burgess, C. H.
Holran Stone Co., Euclid Quarries
Kelley Island Lime & Transport Co.
Spence Bros. Construction Co. (Limestone)
COLUMBUS—Buckeye Dredging Co.
Capitol Limestone Co.
Casparis Stone Co., Clinton bldg
Columbus Macadam Co. (Limestone)
Fish Stone Co.
Woodruff & Pausch Stone Co.
DAYTON—Ohio Crushed Stone Co.
FINDLAY—Hancock Stone Co.
Tarbox & McCall
FOSTORIA—Ohio & Western Lime Co.
HOLLAND—France Co.
LEETONIA—McKeefrey & Co.
Shenango Limestone Co.
LOWELLVILLE—Carbon Limestone Co. (Concrete a Specialty)
MANSFIELD—France, E. H. Sons (Limestone)
MARION—Evans, Jno. Lime & Stone Co.
PIQUA—Ohio Marble Co. (Limestone)
Statler Stone Co.
SANDUSKY—Wagner Stone Co.
SPRINGFIELD—Mills Bros.
Moores Lime Co. (Limestone)
SYLVANIA—*Sylvania Stone Co.
TOLEDO—Acme Coal, Wood & Builders' Supply Co., Front & Droege
Toledo Stone & Glass Sand Co.
Waterville Stone Co., National Union bldg
Ohio & Michigan Sand & Gravel Co. (Granite)
*Sylvania Stone Co.
VAN WERT—Big Four Crushed Stone Co.
*Erie Stone Co.
WHITEHOUSE—*Ryan, Jno.
YOUNGSTOWN—Bessemer Limestone Co. (For Concrete, Macadam, etc.)

## OKLAHOMA.

APACHE—Dolese Bros. Co. (of Chicago)
CRUSHE—Dolese Bros. Co. (of Chicago)
MUSKOGEE—Muskogee Crushed Stone Co.

## OREGON.

PORTLAND—St. Helenas Quarry Co.

## PENNSYLVANIA.

BELLEFONTE—Bellefonte Limestone Co.
BRIDGEPORT—Warner, Chas. Co.
DEVAULT—Warner, Chas. Co.
EASTON—Easton Lime Co.
GLEN MILLS—General Crushed Stone Co.
GREEN LANE—Davis Trap Rock Quarry Co. (See Phila., Pa.)
Perkiomen Crushed Stone Co., Bulletin bldg
Perkiomen Granite Co.
HARRISBURG—Spong, L. R. (Walton Quarries)
NEW CASTLE—Croton Lime & Stone Co.
NORRISTOWN—Block & Tile Co. (Limestone)
Dyer, Jno. T. Quarry Co.
PHILADELPHIA—Birney, R. C. & Co., 1215 Filbert
Clark & Co., 4425 Frankford av
Conemaugh Stone Co., Arcade bldg
Davis Trap Rock Quarry Co., Stephen Girard bldg
Dyer, Jno. T. Quarry Co. (Stone), 15th & Market
General Crushed Stone Co., Franklin Bank bldg
Holmesburg Granite Co., Fidelity Mutual Life bldg
Ireland, Wm. H. Stone Crushing Co., 1218 Filbert
Keenan, D. F., Arcade bldg
Knickerbocker Lime Co. (Limestone), 366 N 24th
Lukens & Yerkes, St. Girard bldg
Peoples Bros., 25th & Callowhill
Richardson & Ross Quarry Co. (Quarries at Morgantown, Pa.), Penna. bldg
Warner, Chas. Co. (Limestone), Land Title bldg
Williamson, Frank, 2202 Chestnut
PITTSBURG—Blair, Reed F. & Co. (Limestone), Frick bldg
Booth & Finn (Ltd.), (Granite), 1942 Forbes av
Clydesdale Stone Co. (Hard Sandstone)
Consolidated Stone & Mining Co. (Limestone), Farmers Bank bldg
Midland Limestone Co. Quarries: Warford, Pa.
Morris, A. G. Lime & Stone Co., Empire bldg
Pope Cement & Brick Co., 421 Wood
SALONA—*Nittany Lime & Stone Co.
SHARPSVILLE—Frampton, P. M. (Limestone Ballast)
SOUTH BETHLEHEM—General Crushed Stone Co.
TYRONE—American Lime & Stone Co. (Limestone)
WAMPUM—Wampum Crushed Stone Co.
WARFORD—Midland Limestone Co. (See Pittsburg)
WAYNESBORO—Decarbonated Lime & Stone Co.
WILKESBARRE—Susquehanna Stone Co.

## RHODE ISLAND.

EAST PROVIDENCE—McCormick, Jos.
PROVIDENCE—Oneco Granite Co.

## TENNESSEE.

MEMPHIS—Christie & Aitken
Kastner Cut Stone Co.
NASHVILLE—Newson Crushed Stone & Quarry Co.
NEWSOMS STATION—Newsom Crushed Stone & Quarry Co.

## TEXAS.

EL PASO—El Paso Ice & Refrigerator Co.
HOUSTON—Standard Teaming Co.
Texas Grading Co.

## VERMONT.

HARDWICK—Woodbury Granite Co. (Granite Only)

## VIRGINIA.

DINWIDDIE—Petersburg Granite Co.

## WASHINGTON.

SEATTLE—Independent Asphalt Paving Co.
TACOMA—Concrete Stone & Gravel Co.

## WEST VIRGINIA.

WHEELING—Wheeling Limestone Co.

## WISCONSIN.

AMBERG—Pike River Granite Co.
APPLETON—Smith Stone & Brick Co.
KENOSHA—Davy Burnt Clay Ballast Co.
LA CROSSE—La Crosse Stone Co.
MILWAUKEE—American Granite Co. (Granite)
Lake Shore Stone Co., Railway Ex bldg
Lannon Crushed Stone Co., 3017 Wright
Milwaukee Concrete & Supply Co., Matthews bldg
Waukesha Lime & Stone Co., 1211 Humboldt av
OSHKOSH—Lutz, Robert
RACINE—Racine Stone Co.
Universal Stone Co.
Waukesha Lime & Stone Co.
WATERTOWN—Richwood Crushed Stone Quarry

## 11042—Stone Crusher Parts & Repairs

(See also Castings, Rock Crusher)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Steel & Condict, Jersey City, N. J.
Taylor Iron & Steel Co., High Bridge, N. J.

## 11043—Stone Crushing Plants (Complete)

Acme Road Machinery Co., Frankfort, N. Y.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Buckbee, J. C. Co., 164 Dearborn, Chicago, Ill.
Chalmers & Williams, Chicago Heights, Ill.
Cresson, Geo. V. Co., Allegheny av. W of 17th, Phila., Pa.
Good Roads Machinery Co. ("Champion" & "Climax"), Kennett Square, Pa.
Mashek Engineering Co., 90 West, New York
Mill & Smelter Engineering Co., 114 Liberty, New York
Pennsylvania Crusher Co., Stephen Girard bldg, Phila., Pa.
**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)
South St. Louis Foundry, St. Louis, Mo.
Traylor Engineering Co., Allentown, Pa.
Universal Road Machinery Co., Kingston, N. Y.

## 11044—Stone Crushing Plants (Portable)

Goods Roads Mach'y Co., Kennett Square, Pa.

## 11045—Stone (Curbing)

**INDIANA QUARRIES CO., Marquette** bldg, Chicago, Ill. Quarries & Mills: Bedford, Ind. (See adv. in Front Cover)
**OHIO QUARRIES CO., Citizens' bldg,** Cleveland, O. Quarries & Mills, Amherst, Ohio

## 11046—Stone (Flattening)

Louders, F. M. ("Imp"), Millville, N. J.

## 11047—Stone (Fluxing)

Security Cement & Lime Co., Baltimore, Md.

## 11047a—Stone (Istrian, Hauteville & Touraine)

**BOCKMAN & SHEPARD, 1265-9** B'way, New York. (See adv. index, end of book)

When writing to firms whose names appear in this book please mention
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# 11048—Stone Producers, Workers & Dealers

(Firms who Operate Quarries are Marked by Either a § or *)

(See also Granite Producers, Workers & Dealers; also Marble Producers; also Lime Mfrs.; also Cement Mfrs.; also Roofing Slate Mfrs.; also Blast Furnaces)

## ALABAMA.

ANNISTON—*Anniston Lime & Stone Co.
*Largarde Lime & Stone Co.
BIRMINGHAM—*Alabama Consolidated Coal & Iron Co. (Limestone, All Consumed by the Company)
Alabama Cut Stone Co. (Cut Contractors)
Oak Hill Marble & Stone Works (Cut Contractors)
Reed Bros. Steam Stone Works
*Sloss-Sheffield Steel & Iron Co. (Limestone, All Consumed by the Company)
*Southern Iron & Steel Co. (Limestone)
*Tennessee Coal, Iron & R. R. Co. (Limestone, All Consumed by the Company)
GADSDEN—Southern Marble & Stone Co.
HUNTSVILLE—Hummel, J. F. & Sons (Cut Contractors)
MOBILE—McDonald, D. J. Stone Co. (Cut Contractors & Flagging)
McDonald, March & Co. (Cut Contractors)

## ALASKA TERRITORY.

FLAGSTAFF—§Arizona Sandstone Co.

## ARKANSAS.

BATESVILLE—*Pfeiffer Stone Co. (Batesville Oolitic)
FORT SMITH—Fort Smith Crushed Stone Co.
Monumental & Cut Stone Co.
PINE BLUFF—Sheppard & Shelby (Cut Stone)

## CALIFORNIA.

COLTON—*California Portland Cement Co. (Building Rock)
GILROY—§Martin, A. A. (Cut Contractors)
LOS ANGELES—Allison, S. & Co., 1354 Palmetto
Bly Bros. Stone Co., 720 S Alameda
*California Construction Co. (Granite & Sandstone), 324 E Market
*California Portland Cement Co. (Building Rock), 129 W 2d
Lane Bros. (Cut Contractors), 910 S Main
OAKLAND—*Stege Quarry Co.
Veitch, W. T. & Bro.
SAN DIEGO—§Simpson & Pirnie Granite Co.
SAN FRANCISCO—Colusa Sandstone Co., 4 Potrero av
*Gray Bros. (Crushed Rock Co.), Wells Fargo bldg
McGilvray Stone Co. (Cut Contractors), Townsend & 7th
McPhee Co. (Cut Contractors), 1308 16th
§Raymond Granite Co., Potrero & Division
San Pablo Quarry Co., Balboa bldg
Western Cut Stone Co., 127 Montgomery
Wetmore, Geo. P. & C. A., 412 2nd
SANTA ANA—§Arizona Sandstone Co.
STEGE—*Stege Quarry Co.

## COLORADO.

COLORADO SPRINGS—Newton Lumber & Mfg. Co.
DENVER—Barker, E. S. Co. (Cut Contractors)
*Colorado Fuel & Iron Co. (Limestone & Dolomite Quarries)
Edwards, E. A. & Co. (Cut Contractors), 13th & Delgany
Fraser & Richardson Stone Co. (Cut Contractors), 6th & Wewatta
Geddis & Seerle Stone Co. (Cut Contractors)
Greenlee Stone & Bldg. Co., 1515 13th
Hathaway Stone Co., 11th cor Wewatta
Mann, Herbert, 7 Larimer
Roberts, J. F., 16th cor Delgany
Sites & Buell, 2026 Delgany
Threewit, B. F., 1700 15th
FORT COLLINS—*Fort Collins Red Sandstone Co.
PUEBLO—Harold, D.
Summers, J. C.

## CONNECTICUT.

ANSONIA—*Ansonia Trap Rock Co.
§Potter, Wm. (Cut Contractors)
*Wooster, Chas. B.
BRIDGEPORT—Jackson Stone Co. (Cut Contractors)
Purdy, H. M. Co. (Blue), 550 Water
Wheeler & Howes (Blue), 944 Main
BRISTOL—Arms, Howard G. (Foundation)
DERBY—*Kendrick, Joseph, Jr.
Patchen, Edw. G. (Flagging)
*Shay, John
GUILFORD—*Beattie, John (Est. of)
HARTFORD—Anderson, Knut H. (Flagging, etc.), 355 Park
Belden, Seth & Son (Flagging, etc.), 69 Commerce
Billings Sidewalk & Coal Co. (Blue, etc.)
Danielson, A. Co., 98 Babcock
Freeburg, A. S., 5 Capitol av, ext
*Keenan, D. F. (Trap Rock, Rough Wall, Bottom Stone, etc.), 721 Main
Kelly Bros. (Cut Contractors), 93 Charter Oak
*O'Connor-Walker Co. (Cut Contractors), 40 Edwards
Putnam, H. E., 156 Woodland
Watson, Alexander (Flagging), 283 Sheldon
LIME ROCK—*Barnum-Richardson Co. (Limestone, All Consumed by the Company)
MANCHESTER—Hollister, Wesley
MERIDEN—*Connecticut Trap Rock Quarries (Crushed)
Grossman, G. J. (Free), 126 Hanover
*Kearney, Thos.
Lane, Jno. S. & Son (Inc.) (Crushed Trap Rock)
*Lane Quarry Co. (Crushed, etc.)
Lines, H. Wales & Co. (Blue & Brown Stone), 134 State
Luby, Wm. J. (Blue, etc.)
MIDDLETOWN—Middletown Coal Co. (Flagging, etc.)
Whitmore Bros. (Building)
NEW BRITAIN—Baker, Loren C. (Curb & Flag)
Cadwell, Chas. B. (Building & Crushed)
Halloran, M. W. (Building)
Hanna's, John Son (Cut Contractor)
Meehan, Jno. F. (Freestone)
Smith, T. C. (Bluestone)
NEW HAVEN—Blakeslee, C. W. & Sons (Building, Broken & Blue), 58 Waverly
*Connecticut Trap Rock Quarries (Crushed Trap Rock), 46 Meadow
Howard Co. (Blue), 250 Boulevard
Kaehrle Stone Co. (Cut Contractors), 6 Hamilton
Kimberly, F. Lester (Cut Contractor), 533 Savin av, W H
Maxwell, Jno. & Son, 70 Hill
Robertson, T. B., 755 Whalley av
Upson & Granniss (Crushed), 116 Franklin
Warner-Miller Co. (Blue Stone), Railroad av, ft St. John
NEW LONDON—D'Avignon, F. P. (Blue & Brown)
Rogers, H. E. Construction Co.
§Ryan, J. J. (Cut Contractor & Flagging)
NEW MILFORD—Hanson, Christian
NIANTIC—*Luce, James V.
NORWALK—*Hall, Irving
Meeker Coal Co. (Blue)
NORWICH—Dodd, Thos. J.
Harrington, P. J.
Peck, McWilliams & Co. (Flagging)
Torrance, A.
PLAINVILLE—§Cook Stone & Ice Co. (Trap Rock)
PORTLAND—§Brainerd, Shaler & Hall Quarry Co. (Brown)
Connecticut Steam Brownstone Co. (Brownstone Cutters & Contractors)
ROCKVILLE—Martin, W. B.
*Rau, Conrad B. (Flagging)
ROCKY HILL—*Conn. Trap Rock Quarries
SHELTON—(See Derby)
SOUTH NORWALK—(See Norwalk)
STAFFORD SPRINGS—Kingsbury, A. W. (Monumental Work & Curb Stone, Stone Cutter)
STAMFORD—Bounty, A. E. (Blue Flagging)
Dean, Geo. W. (Blue & Brown)
O'Connor John & Sons
TORRINGTON—DeMichiel, Jno. & Bros.
WATERBURY—§Chatfield & Chatfield (Blue, Gaffney, J. W. & Co. (Blue) etc.)
Jackson, Thos. F. (Cut Contractors)
WILLIMANTIC—*Larrabee, C., Jr.
WINSTED—Carey, Joseph F.

## DELAWARE.

MIDDLETOWN—Hukill, G. E.
WILMINGTON—Delaware Granite & Mining Co.
*Scott, James H., 2104 W 17th
Simmons & Bro. (Curbing), 102 W 5th
*Stewart & Donohue, Augustine
*Tyre, Philip P., Jr., Shellpot

## DISTRICT OF COLUMBIA.

WASHINGTON—Gilbert, Henry P., 1062 Wis av
Heany, Thos., 482 Mass av, N W
Heidenreich, Frederick, Bladensburg rd
Low, Robert & Co., 115 3d, S W
Miller-Kopp Cut Stone Co. (Cut Contractors), 23 N, N E
Rupprecht, Harry E. (Cut Contractors), 129 Pennsylvania av, N W
§Smith, Chas. G. & Son (Foundation & Potomac Blue), 3218 K, N W
Smith, Philip, 1st cor B, S W
Veihmeyer, Jacob & Son, 1420 Ohio av, N W
Williams, B. A. & G. N. (Cut Contractors), S Capitol & K

## FLORIDA.

TAMPA—Tampa Crushed Rock Co. (Crushed, etc.)

## GEORGIA.

ATHENS—Bisson, P. & Sons (Building)
ATLANTA—Capital Stone Co. (Cut Contractors)
Johnson, Daniel W.
Piedmont Stone Co.
Venable Bros., Temple Court
Walker & Newmeyer Stone Co.
AUGUSTA—Georgia Rough & Cut Stone Co.
COLUMBUS—Elledge & Norman
LITHONIA—*Crossley, R. J.
NELSON—Blue Ridge Marble Co. (Cut Contractors)
SAVANNAH—Dixie Stone Co.
Savannah Cut Stone Co. (Cut Contractors)

## ILLINOIS.

ALTON—*Alton Builders' Supply Co.
*Armstrong, Jno. Lime & Quarry Co.
*Queen City Quarry Co. (Limestone)
*Reliance Quarry & Construction Co.
*Watson, Henry (Limestone)
ANNA—*Union Stone & Lime Co. (Limestone)
AURORA—Kapp, P. & Son
BATAVIA—§Barker, Wm. P. & Son
§Hunter, Griffith Co.
BLOOMINGTON — Higgins - Jung - Kleinau Co.
Moore, J. K. (Cut Stone) (Cut Stone)
CHICAGO—*AMERICAN STEEL & Wire Co. (All Consumed by the Company), Commercial National Bank bldg. (See adv. index, end of book)
Anderson, Andrew G., 5838 Justine
Anderson, Richard, 3112 Osgood
Andres Stone & Marble Co., 279 Dearborn
Artesian Stone & Lime Works Co. (Limestone), 138 Wash'n
Baumann, Jacob, Greenwood ter & Ward
Bodmer, Aug., 1322 Belmont av
Boileau, Paul W., 40th av & Taylor
Brodix & Malone (Dealers), 218 La Salle
California Cut Stone Co., 2136 S Sawyer av
Carlson & Skoglund, 1125 Thorndale av
Central Oolite Stone Co., 138 Wash'n
Chicago Crushed Stone Co., 108 La Salle
Chicago Cut Stone Co. (Cut Contractors), 3403 La Salle
*Chicago Union Lime Works Co. (Macadam & Crushed), 138 Washington
Cleveland Stone Co. of Cleveland, O. (Ohio Blue & Buff), 204 Dearborn
Colgren, A. Fred'k, 6100 Dearborn
*Consolidated Stone Co. (Bedford, Indiana Stone), Monadnock blk
Dallmann, Chas. F. & Co., 5816 Lafin
Dearborn Cut Stone Co., Dearborn & 61st
Diener, T. C. & Co. (Contractor, Cut), 1157 W 21st
Dolese Bros. Co. (Crushed), 78 La Salle
*Dolese & Shepard Co. (Crushed, etc.), 184 La Salle
Douglas Cut Stone Co., 2131 S Troy
Edgeworth, Patrick (Contractors' Cut), 2700 Stewart av
Edwards, John H. (Cut Contractors), 5837 S Ashland av
Edwards & Ward (Cut Contractors), Fullerton av Bridge
Egdorf, John, 1227 Otto
Falter, Geo. & Son (Cut), 3915 W Taylor
Fenn, C. E. & Co. (Wholesale, Bedford Stone), 164 Dearborn
Fisk & Pretzel, 1122 Berwyn
Fluck & Hamilton (Cut Contractors), 73d & Kimbark av
Fuog & Hufnagel (Cut Contractors), 2817 Elston av
Furst Kerber Cut Stone Co., 218 La Salle
Furst & Fanning (Cut Stone Contractors), 946 Hawthorne

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Furst & Pickel Co., 1502 Webster av
Galloy & Van Etten (Cut Contractors), 11756 S Halsted
Geipel, Ernest C., 5830 Centre av
Gibson, A. F. (Cut Contractors), 3327 La Salle
Gindele, Chas. W. Co. (Cut Contractors), 3333 La Salle
Godfriaux & Co., 2115 Girard
Greene & Sons, 3403 Lowe av
Griswold & Chambers, 138 Washington
Hagan, James A., 1121 E 42d
Hampson, Jas. H., 3529 S Leavitt
Heldmaier, Ernst (Cut Contractor), 25th & Throop
Henne & Co. (Cut Contractors), cor Blanch & Fleetwood
Henry, Wm., 5837 Justice
Hepperle, J. & Son, 926 S Springfield av
*Illinois Steel Co. (Limestone, all Consumed by the Company), 115 Adams
*Illinois Stone Co. (Dimension & Rubble), 22d & Lumber
†INDIANA QUARRIES CO. (Blue & Buff Oolitic, Ind., Limestone), Marquette bldg; Quarries & Mills: Bedford, Ind. (See adv. Front Cover)
Jones, Thos. J., 1257 S Rockwell
Karge, Frank (Cut Contractors), 5829 Bishop
Kauffman, Jos. (Cut Contractor), 1626 Elston av
Kempe, P. & Co. (Cut Contractors), 571 Mather
*Kettle River Co. (of Minneapolis), 164 Dearborn
Klingenhagen, F. M. (Cut Contractor), 2650 Kopal & Co., 2908 W 26th Flournoy
Kurfess, Gregor (Cut Contractor), 1926 W North av
*La Grange Stone Co. (Crushed, etc.), Grand Central Depot
Lemont Limestone Co., 2433 S Ashland
McArthur Cut Stone Co., 4610 Rice
McHugh, Jno., 5816 Normal av
McMillan, W. & Son (Inc.) (Building & Cut Stone), Chamber of Com bldg
Mahan & Co., Chamber of Commerce bldg
Mesce, Pasquale (Contractor), 1659 N Miers, D. K., 125 Monroe Western av
Nelson & Hawkinson (Cut Stone), 6167 Evanston av
Ohio Sandstone Co., 204 Dearborn
O'Laughlin, A. C. Co., 138 Wash'n
Olson & Nelson Cut Stone Co. (Cut Contractors), 3337 La Salle
O'Meara Cut Stone Co., 3825 W Taylor
*Peoria Stone & Marble Works (of Peoria, Ill.), 204 Dearborn
*Perry-Matthews-Buskirk Stone Co. (Bedford Indiana Stone), Monadnock blk
Petersen Cut Stone Co., 138 Washington
Pickel, Wm., 1509 N Western av
Pickel & Stoeckert (Cut Contractors), 2501 Station
*Portage Entry Quarries Co. (Lake Superior Portage Red, Brown & Variegated Sand), 218 La Salle
Producers' Stone Co., 184 La Salle
Schick, Wm., 2143 Sawyer av
Sietz, Jno. & Co., 1639 N 40th ct
Shirlaw, Hugh (Cut Contractors), 3557 Stewart av
Skoglund, Emil G. (Cut Contractor), 4920 N Clark
Standard Cut Stone Co., 2127 W 35th
Stein, Ebertshaeuser & Co. (Cut Contractors), 1019 W Division
Steven & Son Co., 24 N Canal
Struble, Henry Cut Stone Co., 217 La Salle
Storer, Richard V., 131 La Salle
Swanson & Brownie, 4141 Ravenswood Park
Sward, A. E. & Co. (Cut Contractors), 123 33rd
Tait, John (Cut Contractor), 3401 La Salle
Thomlinson-Riley Co. (Cut Contractors), 432 W 39th
†United States Crushed Stone Co., 184 La Salle
Universal Crushed Stone Co., 184 La Salle
Watson, Gavin F., 72d & Washington
*Waukesha Lime & Stone Co. (Rubble, Dimension, etc.), 1756 N Central Park av
West Side Cut Stone Co., 2422 Cornelia
Western Stone Co. (Cut Contractors), 138 Wash
Wilde & Schmidt (Cut Contractors), W 21st & Marshall boul
Winkler, Ignatz & Co., 2616 S Sacramento
Wolf, Rudolph, 1137 Newport av
DECATUR—Grindol, W. H. & Son av
Passold, John I. (Cut Contractor)
EAST ST. LOUIS—§East St. Louis Stone Co. (Cut Contractors)
*Queen City Quarry Co.
§Stolle, Casper Quarry & Construction Co.
ELGIN—Magnus & Russell (Cut Stone)
ELMHURST—*Elmhurst-Chicago Stone Co.
FAIRMOUNT—*Casparis Stone Co.
FREEPORT—*Ascher, William (Crushed & Building)
GALESBURG—Craig & Harris (Cut Contractors)
King, Alex. & Co. (Cut Contractors)
GRAFTON—§Grafton Quarry Co. (Sandstone)
HIGHLAND—Feutz, Edward
JOLIET—Commercial Stone Co. (Limestone)
*Groth, Adam & Co. (General & Cut Stone Contractors)
*Joliet Flux Co. (Crushed, etc.)
*Joliet Quarries Co.
*Mainwood, Wm. Stone Co.
*Merchants Stone Co.
*Murphy, D. G. & F. D.
*Ross & Curtis Stone Co.
*Werner Bros.
§Western Stone Co.
KANKAKEE—*Lehigh Stone Co. (Crushed Stone, etc.)
LA GRANGE—*La Grange Stone Co. (Crushed Stone, etc.)
LEMONT—*Consumers' Stone Co.
§Illinois Stone Co. (Dimension & Rubble)
§Western Stone Co. (Limestone)
LENA—Perkins, H. F. (Cut Contractor)
LINCOLN—Lincoln Monument Co.
LOCKPORT—§Western Stone Co. (Limestone)
MOLINE—*Cady Stone Quarry
*Moline Stone Co. (Limestone)
OAK PARK—Rieger, Wm. (Out Stone)
Troost, Henry (Cut Stone)
OTTAWA—Baldwin & Priseler Co. (Cut Stone)
PARIS—Safford's, S. Sons (Cut Stone)
PEKIN—Pekin Granite & Marble Co. (Cut Stone)
PEORIA—Enterprise Stone Co.
Triebel & Sons (Cut Stone)
Wasson, T. J. (Crushed), 403 S Wash'n
QUINCY—*Menke, F. W. Stone & Lime Co. (Limestone)
*Roeder & Greeman (Crushed, etc.)
ROCKFORD—*Carrico Stone Co.
*Hart & Page (Building, Bridge & Rubble)
Reid, Fred (Cut Contractor)
Winchester, Thos. (Cut & Building)
ROCK ISLAND—*Davis, T. B. (Limestone Crushed Rubble)
SPRINGFIELD—Baum, M. J. (Cut Stone)
Culver Construction Co. (Cut Stone)
Fortado, J. L. Co. (Cut Contractors)
Illinois Granite & Stone Works (Cut Contractors)
URBANA—Clark, C. N. & Co.
WAUKEGAN—Bairstow, Fred (Dealer)

## INDIANA.

ALEXANDRIA—Alexandria Crushed Stone Co. (Crushed, etc.)
BEDFORD—*Bedford Buff Stone Co.
Bedford Cut Stone Co. (Cut Contractors)
Bedford Linton Crush Stone Co.
§Bedford Steam Stone Works (Saw Hills, Columns, etc.)
Bedford Stone & Construction Co.
*Bradley, Wm. & Son (Cut Contractors)
Climax Stone Co. (of New York
*Consolidated Stone Co. (of Chicago)
*Doyle, Geo. & Co. (of New York)
Dugan Cut Stone Co. (Cut Contractors)
Ellis & Curtis (Cut Stone)
*Empire Stone Co. (of Bloomington, Ind.)
*Furst, Kerber Cut Stone Co. (Cut Contractors) (of Chicago)
Gelberson, E. F. & Co. (Cut Contractors)
Goodall Cut Stone Co. (Cut Contractors)
Imperial Stone Co.
*Indiana Bedford Stone Co.
*Ingalls Stone Co.
Ingalls Stone Co. (Inc.) (Cut Contractors)
*Norton, C. S. Blue Stone Co.
*Perry-Matthews-Buskirk Stone Co. (Bedford Indiana Stone)
*Reed Stone Co. (Cut Contractors)
Rowe, John A. Cut Stone Co. (Cut Con-Shea & Donnelly tractor)
*Struble, Henry Cut Stone Co. (Cut Contractors) (of Chicago)
*Thornton, E. B.
BLOOMINGTON—*Bloomington-Bedford Stone Co.
Bloomington Cut Stone Co.
§Central Oolitic Stone Co. (Cut Contractors, Bluff & Blue Limestone)
§Chicago & Bloomington Stone Co.
*Consolidated Stone Co. (of Chicago)
*Crescent Stone Co.
*Empire Stone Co. (Indiana Oolitic Limestone)
*Henley, Geo. W. Stone Co. (Sawed, Cut & Turned, etc.)
Hoadley Stone Co. (Inc.) (Cut Contractors)
Hunter Bros. Stone Co.
*Johnson Matthews Co.
*McMillan, W. & Son (of Chicago)
*Mathers Stone Co. (of Chicago)
*Monroe County Oolitic Stone Co.
§National Stone Co. (Buff & Blue Limestone)
Nolan, James H. Sons
*South Side Stone Co.
*Star Stone Co. (of Chicago)
CANNELTON—*Pauline, F. S. & Co.
COLUMBUS—McCormack, P. H. Co.
DECATUR—*Haugk, Julius
ELLETTSVILLE—Eclipse Stone Co. (Bedford Cut Stone)
*Griswold & Chambers (See Chicago, Ill.)
*Matthews Bros.
*Perry Bros. Stone Co.
*Perry Stone Co.
Thompson & Sandy Stone Co.
ELWOOD—Digel, S. H. (Cutter, Flagging, etc)
EVANSVILLE—*Caden Stone Co. (Green River Oolitic Limestone, Rough & Cut)
*Dalton, H. M. Stone Co. (Crushed Stone & Railroad Ballast). Quarries, Hopkinsville, Ky.
*Eichel Lime & Stone Co. (Crushed Macadam, etc.)
Indiana Marble & Granite Works (Cut)
Scholz, F. J. & Son
FORT WAYNE—*Baltes Stone Co. (Crushed Blue Limestone, etc.)
Geake, W. (Cut Contractor)
Keller & Braun (Cut Contractors)
§Moellering's, Wm. Sons
FRANKFORT—*Morris, W. G. & Bro.
Paul, D. W.
GOSHEN—Slaughter Granite Co.
GREENCASTLE—*Ohio & Indiana Stone Co. (See Indianapolis)
GREENSBURG—§Greensburg Limestone Co.
HUNTINGTON—*Erie Stone Co.
*Logansport Stone & Construction Co.
INDIANAPOLIS—A. & C. Stone & Lime Co.
*Adams, H. C., 230 E Ohio 17 N Penn
Billingsley, J. H. Co. (Cut Contractors), 1405 Bates
Ittenbach, G. & Co. (Cut Contractors), 916 Harrison
*Ohio & Indiana Stone Co. (Quarries, Greencastle, Ind.)
*Romona Oolitic Stone Co. (Cut Contractors), Saks bldg
*Spencer Stone Co. (Quarries, Spencer, Ind.)
*Yawger, A. J. Co. (Building, Dimension, Crushed, Limestone, etc.)
INGALLS—*Big Four Crushed Stone Co.
KOKOMO—*Chaffin Bros. (Crushed, etc.)
*Kokomo Stone Co.
*Leach, J. M.
LAPORTE—Franklin, B. A. (Cut Contractor)
LAUREL—Secrist, D. L.
LINTON—*Bedford Linton Crushed Stone Co.
MARION—*Marion Stone Co. Crushed, etc.)
MUNCIE—Busch, Russell & Gelts (Cut Contractors)
Illingworth, Fred (Cut Contractors)
Muncie Stone & Lime Co.
NEW ALBANY—Vernia, John & Con (Cut Contractor)
NEW POINT—§Big Four Stone Co.
OOLITIC—†INDIANA QUARRIES CO. (Buff & Blue, Oolitic, Ind. Limestone). Offices, 204 Dearborn, Chicago, Ill.; 1 Madison av, New York, & 818 Euclid av, Cleveland, O. (See adv. Front Cover)
OSGOOD—*Ashman, A. B. & Co.
*Cox, G. W.
*Osgood Lime Stone Co.
ROMONA—§Romona Oolitic Stone Co.
ST. PAUL—*Greely, R. E. (Crushed)
*McAuliffe, P. J.
*St. Paul Stone Quarries
SOUTH BEND—Schmidt Cut Stone Co. (Cut Contractors)
SPENCER—*Spencer Stone Co.
STINESVILLE—*Hoadley, J. & Sons Co. (Sawed, Planed, Turned & Cut)
*Romona Oolitic Stone Co.
TERRE HAUTE—Roberts, Richard B. & Son (Cut Contractors)
§Terre Haute Stone Works Co. (Cut Con-Walsh, E. W. tractors & Flagging)
WESTPORT—*Hoosier Limestone Co.
Westport Stone Co.
*Westport Union Stone Co.

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## IOWA.

BUFFALO—*Doiese Bros Co. (of Chicago)
BURLINGTON—Burrus, O. M. & Bro.
CEDAR RAPIDS—*Bealer, E. J. (Dimension & Building)
Edinger Bros. (Cut Stone)
*Iowa Stone Co.
CLINTON—McDonnell, D. P. J. (Cut Contracting Stone)
DAVENPORT—*Boland Stone Co.
*Davenport Stone & Marble Co.
*Gromoll Stone Co.
*Le Claire Stone Co.
*Linwood Stone Co.
DES MOINES—Capital Hill Granite & Marble Works (Cut Stone)
Des Moines Marble & Mantel Co. (Cut Stone)
*Earlham Land Co.
*Ellsworth Stone Co. (Crushed)
*Peru Stone & Cement Co.
*Rowat, Jno. (Cut Contractor)
Watson, Arthur (Cut Stone)
DUBUQUE—Schulte, B. & Son (Cut Contractors)
Wagner, Henry (Cut Contractors)
FORT MADISON—§Fort Madison & Appanosse Stone Co. (Crushed, etc.)
KEOKUK—§Cameron & McManus
§McManus & Tucker
MASON CITY—Dayton, C. G.
STONE CITY—*Champion Stone Quarries
*Dearborn, H. & Sons
*Erickson, F. Co.
*Green, Jno. A.
Ronan, John
VINCENNES—Stout, Oliver
WATERLOO—*Bartlett & McFarlane
Moline & Lawson (Cut Contractors)

## KANSAS.

EMPORIA—Lewis, L. W. (Contractor)
GODDARD—Pond, W. M. & Co.
KANSAS CITY—Rock Springs Ice & Stone Co.
PITTSBURG—Hill, Geo. W. & Sons (Cut Contractors)
Pittsburg Marble Works (Cut Contractors)
TOPEKA—Builders' Stone Co.
Cuthbert, James
*Johnston, W. A.
Sargent, John & Son
Topeka, Carthage Stone Yard

## KENTUCKY.

BOWLING GREEN—*Oman Bowling Green Stone Co.
COVINGTON—Farrell, James (Cut Contractor)
*Schlosser, Frank J., Highland Pike
DAYTON—Walter Bros.
FARMERS—*Rowan County Freestone Co. (Kentucky Blue, Rough, Bridge, Dimensions, etc.)
HADLEY—*Caden Stone Co. (Green River Oolitic Limestone, Rough & Cut). (Office, Evansville, Ind.)
HENDERSON—§Fleming, J. H. & Son (Cut Contractors)
HOPKINSVILLE—*Dalton, H. M. Stone Co. (Crushed Stone & Railroad Ballast). (See Evansville, Ind.)
LANGFORD—*Kentucky Freestone Co. (Office, Cincinnati, O.)
LEXINGTON—*Lexington Stone Co.
LOUISVILLE—Diebold, John & Sons (Steam Stone Works & Contractors), 1417 16th
Peter & Burghard Stone Co. (Cut Contractors)
Peter & Melcher Steam Stone Works
MOUNT VERNON—*Sparks, W. J. (Limestone)
NEWPORT—*Ohio River Stone Co. (Crushed, etc.)
Spinks, Harry C. (Dealer)
OWENSBORO—Mischal, Geo. & Son (Cut Contractors)
PADUCAH—Williamson, J. E. & Co. (Cut Stone)

## LOUISIANA.

NEW ORLEANS—Jahncke, F. (Dealer), 810 Howard
SHREVEPORT—Newman, A. J. (Cut Contractors)

## MAINE.

(See also Granite Producers, etc.)
PORTLAND—Mannix Bros. (Freestone)

## MARYLAND.

BALTIMORE—Andrew, D. M. Co. (Cut Contractors), 1014 Homewood av
*Atkinson, James H. (Curb, Building, Flag, etc.), 29th & Hampden av
Berry & Tracey (Freestone, North River Blue, etc.), Warner & B & O R R
Clough & Molloy (Cut Contractors), Harford rd & Belt Line R R
Gault, Wm. A. & Son (Cut Contractors), 9 E Lexington
Guilford & Waltersville Granite Co. (Flint Feldspar, Rough or Ground, Granite Paving Blocks, Crushed Stone, Building & Dimension Granite), 3 E Lexington
Herrick, Jno. Howard (Quarry Agent, Blue, Red & Brown Stone, Marble, Granite & Limestone), Law bldg
Hook & Ford Contracting Co. (Crushed), Equitable bldg
§Independent Quarry Co., 309 N Holliday
Knight, Maurice L. (Cut Contractor), 1025 W Mulberry
§Leonard, Daniel A. (Flagging, Building, Paving & Crushed), Builders' Exch
*Longley, Wm. M. Quarry Co., 711 Bloomingdale av
Mann, Geo. (Cut Contractors), Columbia av & B & O R R
O'Meara, Jas. & Bro., 1129 Fremont av
Patapsco Quarry Co., Equitable bldg
§Peddicord, I. H. & Sons Quarry Co. (Crushed), 879 Greenmount av
Petersburg Granite Co. (Flint & Felrspar, Rough or Ground, Granite Paving Blocks, Crushed Stone, Building & Dimension Granite), 3 E Lexington
Rullman & Wilson (Cut Contractors), Mt Royal av
§Schwind Quarry Co. (Crushed Stone), Law bldg
§Standard Lime & Stone Co. (Lime), Equitable bldg
Weber, Albert (Cut Contractor), Builders' Exch
DICKERSON—§Standard Lime & Stone Co.
GUILFORD—Guilford & Waltersville Granite Co.
WHITEHALL—*Eastman Stone Co.
WOODSTOCK—Builford & Waltersville Granite Co.

## MASSACHUSETTS.

ATHOL—Wellman, L. M. W.
BOSTON—Beatty Construction Co., Brighton
Beatty, Jno. F., 5 Floyd, Rox
Bishop, J. W. Co. (Cut Limestone Contractors), 683 Atlantic av
Campbell, P. J. & Sons (Freestone), Southampton cor Reading
Carew, Jos. F. (Cut Contractor), Gerard & Mass av
Cleveland Stone Co., 166 Devonshire
Conant, Chas. M., Old South bldg
Coughlan, F. G. & Sons (Cut Contractors), Albany cor Malden
Cuddihy, M. H. & Sons, 485 Dorchester av
Elcock, J. C. & Co., 1291 Dorchester av
Falt, J. P. & Co. (Dealers), 166 Devonshire
Harrington, John (Blue Stone), 166 Devonshire
Maher Bros. (Blue Flagging), 603 Albany
§Mass. Broken Stone Co. (Broken, etc.), 235 Franklin
Meany, Edw. F. & Co. (Cut Contractors, Freestone & Limestone), 534 Albany
Murray, Henry, 41 Haverhill
§Norcross Bros. Co., 73 Tremont
Rowe Contracting Co., Brighton
Smith, H. P. & Co., 23 Haverhill
Sullivan, Wm. J. (Freestone). (Cut Contractor), 99 Southampton
Tide Water Broken Stone Co., 75 State
Troy Bros. & Co. (Soapstone), 975 Mass av
West Roxbury Tray Rock Co. (Crushed & Bldg), W R
Winchester Stone Co., 535 Albany
BROCKTON—Long, M. D.
Messer Bros.
CAMBRIDGE—Charles River Stone Co. (Cut Stone)
Harrington, Jno. (Est. of) (Bluestone)
Ricker, E. Son & Co. (Cut Stone)
Sands, Geo. R. (Cut Stone)
EAST LONGMEADOW—*Archambault, Joseph (Office, Holyoke)
§James & Marra (Light Brown Sandstone), (Office, Springfield)
§Norcross Brownstone Co. (East Longmeadow Brownstone), (Office, Worcester)
*Rankin, J. A. (Cut Contractor)
HOLYOKE—Archambault, Joseph L. R.
McCormick, David & Co. (Cut Contractors)
LAWRENCE—Dorman, Jas.
Lawrence Granite Co. (Cut Stone & Granite)
LENOX—*Clifford's, James Sons (Freestone)
LONGMEADOW—(See East Longmeadow)
LOWELL—*Gumb Bros. (Cut Stone)
Wheeler, Chas. (Cut Stone)
LYNN—Merrill, Geo. B. & Co. (Cut Contractors)
§Shea & Donnelly (Cut Contractors)
MELROSE—Coughlin, D.
NEW BEDFORD—*Sullivan, Jno. B. & Son
NORTH ADAMS—*Whitney Bros.
NORTH COHASSET—*Lane Quarry Co.
PEABODY—Joy, Leander F. (Cut Contractor)
*Linehan, Jas. C.
PITTSFIELD—Kirk & Matthews (Cut Stone)
QUINCY—See Granite Producers & Workers
SALEM—Curtis, Chas. E. & Son (Cut Stone)
O'Rourke Bros. (Cut Stone)
SOMERVILLE—McCarthy, Wm. J. Co.
SPRINGFIELD—Casey & Broderick, 553 State
Cook, Wm. F. Granite Co., 184 State
§Falt, J. P. & Co. (Red Sandstone, Cut Contractors), Armory
§James & Marra (Light Brown Sandstone, Cut Contractors), 33 Lyman
McGregory & Casman, 531 Main
Muir, Jas. (Light Brown Sandstone, Cut Contractor), Bay st av
§Stone, A. D. & Co. (Light Brown Sandstone)
Wright, A. H. & Son
STONEHAM—Bennett, Perry & Son
TAUNTON—Sullivan, John B. & Son (Cut Stone)
WALTHAM—*Waltham Trap Rock Co.
WEBSTER—Love, J. B. (Cut Contractors)
WESTFIELD—*Westfield Marble & Sandstone Co.
WHITINSVILLE—*Blanchard, G. M. (Cut Contractor)
WORCESTER—Bishop, J. W. Co. (Cut Limestone Contractors)
Loughlin & Crowley (Cut Stone)
*Norcross Brown Stone Co. (East Longmeadow Brownstone, Cut Contractors)
*Webb Granite & Construction Co. (Cut Contractors)
Wilson, Martin (Brownstone)

## MICHIGAN.

ALPENA—*Collins, Richard
ANN ARBOR—Finkbeiner & Co. (Cut Stone)
BATTLE CREEK—Hill & Sherlow (Stone Contractors)
McNaughton, Angus J. (Cut Stone)
BAY CITY—Bate, A. & Son (Cut Contractors)
§Bay City Stone Co. (Cut Contractors), 8th
Wright, G. A. (Cut Stone) c Water
BAY PORT—*Wallace Stone Co.
CHEBOYGAN—Pennell Bros.
DETROIT—Baitinger, Wm. F. (Cut Stone)
Bartlett Co. (Dealers)
Batchelder-Wasmund Co. (Cut Stone)
Beebe, Henry A. (Cut Stone)
Calvert's, J. Sons (Building)
Christa, Phillip & Sons (Steam Stone Wks)
*Dunbar Stone Co., River Rouge
Gearing Bros. Co. (Stoneyard)
*Gibraltar Quarry Co.
Houghten, Henry (Crushed Building)
Little, C. H. Co. (Crushed & Building)
Meier, Hubert A. (Cut Stone)
Ortman, F. A. & Co. (Cut Stone)
Piggins, Wm. & Sons (Cut Stone & Steam Stone Works)
Rankin, Wm. (Cut Stone)
Robertson, B. & Co. (Cut Stone)
Sibley, F. B. & Co.
*Sibley Quarry Co.
Smith, John E. (Cut Stone)
Stef & Angelo (Curb Stone, etc.)
DUVAGIAC—Rutherford, I. (Cut Contractor)
FLINT—Barney, M. C. & Son (Cut Stone)
GRAND RAPIDS—Hirth, A. & Co. (Cut Contractors)
Hirth, F. H.
Schmidt, Matthew (Cut Contractors)
GRINDSTONE CITY—§Cleveland Stone Co.
KALAMAZOO—Winslow, Edw. L. (Cut Contractors)
LOWELL—Hamilton, Joseph H.
MANISTEE—Forth, W. J. (Cut Stone)
MARQUETTE—*Portage Entry Quarries Co.
MENOMINEE—Nowack, F. C.
MONROE—Monroe Stone Co. (Crushed)
MUSKEGON—Bauer & Beamer
ONAWAY—*Onaway Limestone Co.
PORT HURON—Truesdell Marble & Granite Co.
SAGINAW—Hobson & Co. (Cut Contractors)
Mohr Bros. (Cut Contractors)
SIBLEY—*Church Quarry Co. (Limestone)

## MINNESOTA.

BANNING—*Barber Asphalt Paving Co. (Bridge, Curb, Block, etc.)
DULUTH—Duluth Cut Stone Co. (Cut Stone)
*Duluth Crushed Stone Co. (Crushed, etc.)

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JASPER—Jasper Stone Quarry Co.
*Staples, Harry W.
KASOTA—*Babcock & Willcox (Rough, Sawed, Planed & Cut)
*Kasota Marble & Tile Co.
MANKATO—*Anderson, S. A.
Ekle, A. R.
*Fowler & Pay
*Mankato Lime & Stone Co. (Limestone)
Meyer, A. G.
*Widell Co.
MANTORVILLE — *Mantorville Stone Co. (Bridge & Heavy Dimension)
MINNEAPOLIS—*Anderson, Andrew P. & Co. (Stone Contractors), 15th av & Johnson
Anderson, G. A. (Cut Stone), 16th av, S E, & 9th
*Barber Asphalt Paving Co., Security Bank bldg
*Blue Limestone Co., 1529 Central av
*Cook Stone Co., New York Life bldg
*Crowley Stone Co., 816 4th, N E
Hastings Cut Stone Co. (Cut Contractors), Main c 6th av, S E
Jones & Hartley (Cut Contractors), 829 S 17th av
*Kettle River Co. (Building, Curbing, Bridge, Paving, etc.)
McLeod Stone Co., 2nd av & 2nd, N E
Mineral Supply Co., 15th av, N E, & Johnson
*Minneapolis Stone Co., Filmore & 16th av, N E
*Minnesota Crushed Stone Co.,1 5th av c Johnson
Northwestern Cut Stone Co. (Cut Stone)
*Riverside Stone Co., 9th S & River Bank
*Ryberg, Fritz, 13th av & 5th, N E
*Twin City Stone Quarry Co., 8th & 29th av S
RED WING—*Lillybald, Gust. (Limestone)
ST. CLOUD—(See Granite Producers, Workers & Dealers)
ST. PAUL—Capitol Stone Co., Arkwright & Lawson
Como Stone Co., Dale N of Como
Johnson, L. E., 842 Case av
*Larson, John, ft Purnell av
Lauer Bros. (Contractors), ft of Chestnut
*Mendota Stone Co., Mendota
Peterson, P. N. Granite Co., 62 E 5th
Portland Stone Co., James & Lexington
*St. Paul Crushed Stone Co. (Crushed)
St. Paul Stone Co., 10th & Wabasha
Snelling Stone Co., 1583 University av
Standard Stone Co., 280 Sturgis
*Ulmer, Wm. H. (Cut Contractor), ft of Chestnut
Young, C. H. Co. (Cut Contractors), 653 Rice
Young, Jas. A. & Sons (Cut Contractors), 64 W 7th
SANDSTONE—*Kettle River Quarries Co. (Building, Bridge, Paving, etc.)
WINONA—*Besanz Stone Co. (Cut & Rough)

## MISSOURI.

BETHANY—Kenyon, J. W. (Cut Stone)
BOONEVILLE—Moore, R. L. & Son (Cut Contractors)
BUTLER—*Day, T. J.
CARTHAGE—Bolle, N. E. Cut Stone & Contracting Co.
Carthage Building Stone Co.
*Carthage Marble & White Lime Co. (Limestone & Saw Mill)
*Carthage Monumental Stone Quarry Co.
*Carthage Quarry Co. (Limestone & Saw Mill)
*Carthage Stone Co. (Limestone & Saw Mill)
*Carthage Superior Limestone Co. (Cut
*Kellogg Marble Co. Contractors)
*Missouri Stone & Construction Co.
*Southwest Cut Stone Co.
*Spring River Stone Co.
COLUMBIA—Farley, E. (Cut Stone)
DE WITT—*Carroll County Sandstone Co.
ELSBERRY—*Crystal Carbonite Lime Co.
HANNIBAL—*Hannibal Lime Co. (White
*Star Lime Co. (Limestone) Limestone)
JEFFERSON CITY—Vetter, Frank J. (Cut
Zuber, Victor (Cut Stone) Stone)
JOPLIN—*Myers Stone Co. (Building & Cut Stone)
KANSAS CITY—Bremer Cut Stone Co. (Cut Contractors), 23d & Central
Carthage Stone Co.
Forrester Bros. Stone Co. (Cut Contrac-
Lyle Rock Co. tors), 24th & B'way
Phelps Stone & Supply Co.
Phenix Stone & Lime Co. (Cut Contractors), 1901 Olive
Sutermeister, Arnold Stone Co. (Cut Contractor)
ST. JOSEPH—Abercrombie Stone Co. (Cut
Maier, Sebastian (Cut Stone) Stone)
*Pfeiffer Stone Co. (Cut Contractors)
*St. Joseph Rock Crushing Co. (Crushed
*Young Bros. (Crushed Stone) Stone)
ST. LOUIS—*Algonite Stone Mfg. Co., 701 S 21st
*Atlantic Quarry & Const. Co., Scott & Montrose
*Bambrick Bros. Const. Co., 5229 St. Louis, Mo.
*Brockschmitt, Edw., 6533 Manchester av
*Carthage Marble & White Lime Co., 3900 Choteau av
*Carthage Stone Co. (Cut Stone), 35th & Gratiot
*Columbia Quarry Co. (Limestone), Fullerton bldg
Eyermann, G. & Bro., 1216 S Grand av
*Fehlig Construction Co., 3500 Hickory
Finck, J. C. Mine & Milling Co., 101 Boston
*Fruin-Bambrick Const. Co., Chemical bldg
*Grafton Quarry Co. (Sandstone), Wright bldg
*Hanick Quarry & Const. Co., Euclid & Ashland av
*Heman Construction Co., 444 S Theresa av
*Hill-O'Meara Construction Co. (Limestone), Syndicate bldg
Hoffman-Hogan Const. Co., 2712 Wyandotte
Interstate Contracting Co., Caster & Obear
McDonald & Co., Roe bldg av
*Perkinson Bros. Const. Co., 3237 Caster av
*Phenix Quarries Co. (J. J. Shanahan), Boyle & Wabash Ry.
Pickel Marble & Granite Co. (Cut Contractors), 1901 N B'way
*Pickel Stone Co. (Cut Stone), 1320 Old Manchester rd
Reitz Bros. Stone Co. (Cut Stone), 4500 Choteau av
*Ruecking Cons. Co., Penna. & Malder
St. Louis Cut Stone Co. (Cut Contractors), 3535 Gratiot
*Sinclair Quarry & Cons. Co., Victoria bldg
*Skrainka Construction Co. (Limestone), Security bldg
*Stolle Casper Quarry & Const. Co., East St. Louis
Thym Cut Stone Co. (Cut Stone), Park & Dolman
Toomey & Conroy (Cut Stone), 2937 Howard
*Tower Grove Quarry & Const. Co., 5927 Fyler av
*Union Quarry & Const. Co., 4687 Nat'l blvd
Wall Bros., 9th & Victor rd
WARRENSBURG—*Pickel, Benjamin

## NEBRASKA.

BLUE SPRINGS—*Davis, Geo. (Crushed, etc.)
GRAND ISLAND—Paine Granite & Marble Co. (Cut Stone)
Scheffel, William (Cut Stone)
LINCOLN—Forburger Co. (Cut Contractors)
Speidell, C. E. & Son (Cut Stone)
OMAHA—Bloom, J. F. & Co. (Cut Stone)
*Murphy, Hugh (Red Sand), Bee bldg
Nebraska Stone Co. (Cut Contractors)
Schall, A. Co. (Cut Contractors)

## NEW HAMPSHIRE.

CLAREMONT—Messer, Richard (Cut Contractor)
CONCORD—(See Granite Producers, Workers & Dealers)
DOVER—§Abbott, Samuel B.
FITZWILLIAM DEPOT—Cheshire Stone Corp.
MANCHESTER — (See Granite Producers, Workers & Dealers)
MILFORD—(See Granite Producers, Workers & Dealers)
WEST CONCORD—(See Concord Granite Producers, Workers & Dealers)

## NEW JERSEY.

ASBURY PARK—Rothfritz, R. E. K. (Blue)
ATLANTIC CITY—Balestrieri, R. (Cut Contractor)
New Jersey Stone Co. (Cut Contractors)
BAYONNE—Brady, Jas. Sons Co.
BELLEVILLE—Tuorto Cut Stone Co. (Cut Contractors)
BRIDGETON—Ogden & Platt (Cut Stone)
Shaw, Wm. R. (Cut Stone)
CALIFON—*Califon Limestone Co.
CHANGEWATER—*Castner, Jno. P.
EAST ORANGE—Mayer Cut Stone Co.
ELIZABETH—Bach, J. A. (Contractor)
Clark, A. L. Stone Co. (Blue)
McGhee, Geo. & Son
ENGLEWOOD—Prentice Co. (Blue Stone, Crushed, etc.)
Thompson, Jos. & Son (Cut Contractors)
GERMAN VALLEY—*Weise, Edw. (Est. of)
HACKENSACK—Long, F. R. Co.
HARRISON—Carr & Ball (Inc.) (Cut Stone)
Durie & Davidson (Cut Stone)
Spurr, J. J. & Sons (Cut Contractors)
Van Keuren & Son
HASKELL—De Laura. C.
*Haskell Quarry Co.
HOBOKEN—Barr, Thaw & Frazer (Cut Contractors)
Birch, Thos. E. (Blue), Willow av nr 16th
HOPEWELL—*Cope, J. S.
IRVINGTON—Backus Bros. (Cut Stone)
Riede & Schleer (Cut Stone)
JERSEY CITY—*Delaware River Quarry & Construction Co. (Crushed, Ballast, etc.)
Muirhead, Robt. (Blue), 1st & Provost
New Jersey Stone Construction Co. (Cut Contractors)
Standard Blue Stone Co., 141 1st
Union Stone Co. (Blue, etc.) 273 5th
LAMBERTVILLE—*Dalaware River Quarry & Construction Co. (See Jersey City)
LEDGEWOOD—*North Jersey Stone Co.
LITTLE FALLS—*Ferguson's, Wm. A. Sons (Crushed, etc.)
MIDDLE VALLEY—*Middle Valley Trap Rock & Mining Co. (Crushed Trap Rock)
MILLBURN—Millburn Trap Rock Co. (Crusher Trap Rock)
MONTCLAIR—Wood, Thomas (Blue, etc.)
MORRISTOWN—Ennis, C. W. & Co. (Blue, etc.)
*Morris County Crushed Stone Co.
*New Jersey Trap Rock Co.
*North Jersey Quarry Co.
*Paterson Crushed Stone Co.
Sansom, George (Cut Contractor)
*Schmidt, F. W. (Crushed)
MOUNT HOLLY—*Lukens & Yerkes
**NEWARK — Bigelow & Swain (Limestone), 45 Clinton**
**Boyle, Thos. (Contractor), 174 Riverside av**
**Brown, Geo. & Co. (Cut Stone Contractors), 270 Passaic**
**Brown & Rusling Co. (Blue & Cut Stone Contractors), 255 Fabyan pl**
**Decker, C. & Son (Cut Stone Contractors), 49 Speedway av, V**
**Gerber, A. F. Stone Co. (Blue), 202 Bigelow**
**Hoerner, H. J. & Sons (Cut Stone Contractors), Lister av**
**Martino, F. T. & Sons (Stone Cutters, etc.), 109 Warwick**
**Monahan Stone Co. (Dealers), Plum Point la**
**Newark Blue Stone Co. (Blue), 120 Passaic**
**Reilly, J. E. Stone Co., 10 Riverside av**
**Rome Stone Cutting Co. (Cut Stone Contarctors), 149 Boyden**
**Schreitmueller, Henry, 174 Waverly pl**
**Snyder, Frank W. (Flagging), 372 Grove, V**
**Whitman, John C. (Flagging), 157 Summer av**
Woodward, A. H. & Co. (Blue & Cut), 120 Passaic
Young, R. & Son (Cut Stone Contractors), 25 Grafton av
NEW BRUNSWICK—Cole, Thos. C. (Cut
NEWTON—Hopkins, Stewart H. Contractor)
OGDENSBURG—*Bigelow & Swain (See Newark, N. J.)
ORANGE—§Spottswoode-Cusack Co.
PASSAIC—Diamond Stone Co.
Van Dorn, Jno. (Brown Stone)
Watterson & Smith (Contractors)
PATERSON—McKiernan & Bergin (Crushed, Paving & Building), 1st Nat'l Bank bldg
*Paterson Crushed Stone Co.
PERTH AMBOY—Lynch, Joseph (Cut Stone)
Satter, Hans & Co. (Bluestone)
Wilbert, Charles E. (Blue)
Williams, David J. (Stoneyard)
PHILLIPSBURG—Martin, Adam (Bluestone)
PLAINFIELD—Bartle, Wm. E. (Building)
Lannon, John (Blue)
Manning, L. L. & Son
Smalley, N. B. & Co. (Crushed)
Watchung Stone Co. (Stoneyard)
POMPTON—*Brown, Herbert L. Co. (Granite, Marble & Limestone)
RIDGEFIELD — *Heisenbuttle, C. (White, Foundation & Building Stone)
RAVEN ROCK—*Berger, Fillmore
*Ledger, Jno. J.
ROCKY HILL—*Delaware River Quarry & Const. Co. (Crushed & Paving Blocks)
*Rocky Hill Stone Storage Co.
SCOTCH PLAINS—*Fanwood Stone Crushing & Quarry Co. (Crushed Stone)

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SOMERVILLE—Sargeant Bros. (Flagging)
STOCKTON—*Eastburn, Chas. T. & Co.
*Twining, S. B. & Co.
TENAFLY—Gameble, E. J. & Son
TOWN OF UNION—(See Weehawken)
TRENTON—Eppele, F. J. (Blue), 430 Perry
Hutchinson, T. A., Breunig av nr Mead
McDonald, Alex. Co., 862 Centre
Prior & Brock (Cut Contractors)
*Richardson, Jos. B. & Sons (Dealers)
Richardson, Percy B., 26 Commerce
Swayze, H. M. & Son, 26 S Stockton
WEST NEW YORK—*Cianfrone & Sellitto
WOODBURY—Snelbaker Bros.

## NEW YORK.

ALBANY—Brooksby, Charles (Cut Contractor)
Ross, Adam & Son (Cut Contractor), Bway & Shaker Mill
ALBION—*Albion Medina Stone Co.
*Fancher, Robinson
*Fancher & Vincent
*Orleans County Quarry Co.
*Reed, Allen & Reed
*Ryan, M. A.
AMSTERDAM—Hennessey, Wm. E.
AUBURN—*Goodrich, C. E.
BIGELOW—*Williams, Chas. & Co. (Limestone & Flux)
BINGHAMTON—Ingalls Stone Co. (Cut Contractors, Steam Cut Stone Works)
Lander, Isaac & Son
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—*Appenheimer, Jno. L., 75 Appenheimer av
Ball & Wittig (Cut Stone), 52 E North
*Barber Asphalt Paving Co. (Crushed, Building & Dimension), Ellicott sq
*Buffalo Cement Co. (Ltd.) (Cut, Crushed, etc.), 110 Franklin
*Buffalo Crushed Stone Co. (Crushed, etc.) Ellicott sq
Buffalo Litholite Co. (Cut Stone), ft of
*Canal Quarry Co., Ellicott sq Jersey
Carroll Bros. (Limestone), 490 Ellicott sq
Dehn, C., c Louisiana & Perry
Frontier Ice & Stone Co., 1003 Fillmore av
*Gehres, Anna, 1968 Fillmore av
General Crushed Stone Co., Prudential bldg
*Kehr, A. P. (Cut Stone, etc.), ft Church
*McDonnell & Sons (Cut Stone), 858 Main
Maltby, Geo. W. & Sons (Cut Stone), 21 Maryland
Queen City Cut Stone Co. (Cut Stone), ft of Maryland
Reeb, M. A., 599 Michigan
*Rupp, John J., 2135 Fillmore av
*Schreier, Sebastian, 1855 Fillmore av
Star Cut Stone Co., 215 Oak
Steinwachs, Oscar, 1726 Fillmore av
Voesard, Edw. T., 1968 Fillmore av
CATSKILL—*Holdridge, Geo. W. & Son
CHAUMONT—*Adams & Duford Co.
COEYMANS—*Briggs, Jno. W.
ELMIRA—Yenger, B. (Cut Contractor)
FISHS EDDY—*Nevins, Jas. & Sons
GLOVERSVILLE—Hunter & Son (Cut Stone)
*Starr, Z. B. (Cut, etc.)
GOUVERNEUR—(See Marble Producers)
HALE EDDY—*Begel, Grant
*Travis & Kingsbury (Blue Stone)
HANCOCK—*Cotter, E. J.
*Kirkpatrick Bros.
*Randall, W. I.
HANKINS—*Manny, Anthony & Co. (Blue)
HIGHLAND FALLS—Muller Bros. (Blue)
HOLLEY—*Farrand, Wm. H.
*O'Brien & Co.
*Orleans Sand Stone Co. (Office, Syracuse)
HUDSON—Hoctor, P. & Son (Cut Stone)
HULBURTON—*Ford, A. B.
*Squires, A. J.
*Vincent, Edward & Co.
ITHACA—Storms, J. B. (Cut Stone)
JAMESTOWN — *Jamestown Shale Paving Brick Co.
KINGSTON—Hudson River Blue Stone Co. (Blue)
LE ROY—*Empire Limestone Co. (Office, Scranton, Pa.)
*General Crushed Stone Co. (Office, South
*Heimlech, John Bethlehem, Pa.)
*North River Blue Stone Co.
LOCKPORT—Bendinger, John
Stainthorpe, C. N. & Co. (Building)
*Whitmore, C. B. Co. (Sandstone)
LONG EDDY—*Fritz, Jno. & Son (Bluestone)
*Kenny Bros.
*Peak, Cyrus (Bluestone)
*Yenger & Bendinger (Sandstone)
LONG ISLAND CITY—(See New York City, Borough of Queens)
MIDDLETOWN—Wagar, David P. (Blue)
MOUNT KISCO—Gorham, D. F.
MOUNT VERNON—Smith, Samuel F. (Blue)
NARROWSBURG — *Partridge, Jere (Bluestone)
NEW BALTIMORE—Fuller, W. D. Sons
*McCabe, Edward
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Crawford, Wm. (Est. of) (Blue & Free Stone)
Dwyer, M. J. (Blue & Flagging)
Forson & Ross
Fletcher, Wm. F. (Cut Contractor)
Harrison, John J. E. (Dimension)
§Miller, D. C. (Crushed & Building)
NEW PALTZ—*Hasbrouk, J. J. & Co. (Buhr Stones)
NEW ROCHELLE—Mahlsted, J. A. Lumber & Coal Co.
New Rochelle Coal & Lumber Co. (Flagging, etc.)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—Baird, A. D. & Co. (Cut Contractors), Wythe av c Keap
Baird, Andrew R. (North River Blue Stone), Wythe av & Hooper
Bannon, P. & Sons (Crushed), 129 Richards
Brownsville Cut Stone Co. (Brown), 206 Sutter av
Burns, John & Son (Blue), 186 6th
Candee, Fred'k R. (Blue), Hamilton av & 15th
Christman, Theo. G. (Cut Contractor), 27 Heyward
Clark, Edw. Blue Stone Co., c 4th av & 2d
Cohn Cut Stone Co. (Cut Contractors), 38th & 14th av
Curran Bros. & Murphy (Cut Contractors), Douglas st & 4th av
Dean, Thos. & Co. (Cut Contractors), 141 3d
Donaldson, Whittlesey Co. (Indian Oolithic) 70 9th
Feinstein, Samuel (Brown Stone), Blake & Rockaway avs
Gabriel, Wm. (Brown), 109 Knickerbocker av
Gold & Taylor (Cut Contractors), 3rd av & 1st
Gompers, Doyle & Light (Cut Contractors), Hamilton av & Hicks
Harnden, Jas. H. Co. (Blue), 991 Grand av
Harrington, Michael J. (Blue), 41 Heyward
Heinlein, John Cut Stone Co. (Cut Contractor), 555 President
Hickey, M. F. Co. (Crushed), 7th & N 2nd av
Johnson, Patrick J. (Blue), 341 Butler
Kenny & Chambers (Blue), 347 Columbia
McLaren, Jas. & Son (Cut Contractors), Court & Bay
Moore, Richard (Blue), Bay 19th & Benson av
Moran, John W. (Est. of) (Blue), Hamilton av & Hicks
Mouter, Geo. (Cut Contractors), 21 Varick av
Parker, Thos. Co. (Cut Contractor), 1259 Flushing av
Pilzer, Elias M. (Cut Contractor), 438 Stone av
Rankin & Ross (Cut Contractors), 372 Carroll
Reilly, Thomas (Indiana), Montauk & Atlantic avs
Ross, Wm. S. (Cut Contractor), 254 Douglas
Ryan, N. Co. (Blue), 461 Columbia
Starr, James (Blue), 174 9th
Steinberg Steam Cut Stone Co. (Cut Contractors), 596 Rockaway av
Sussman Bros. (Brown), 354 Himrod
Trudden, M. (Blue), 109 Van Sindren av

### Boroughs of Manhattan & Bronx.

NEW YORK—Algie, R. J. (Crushed Stone), 9 W 67th
Altieri, M. & Sons (Crushed), 468 Concord av
American Blue Stone Co. (Blue), 1 Madison av
Annett & McConnell (Stone Yard), 6 W 14th
Bellows, Chas. H. Cut Stone Co., 503 E
Best, Jno. (Blue), 418 E 92d 115th
Borough Cut Stone Co. (Cut Stone), Austin pl & E 144th
Bradley, Wm. & Son (Cut Stone), 90 West
Brady, Jas. B. (Crushed), 525 E 118th
Brohmer Bros. (Cut Stone), Unionport
Brown, Geo. & Co. (Cut), 1123 B'way
*Brown, Herbert L. Co. (Granite, Marble & Limestone), 4th av & 27th
Builders' Stone Contracting Co. (Brown, etc.), Unionport
Cardo, V. & Son Co. (Stone Yard), Cypress av & 132d
Cebrelli, Anton (Crushed), Aqueduct av & 170th
Cleveland Stone Co. (Sandstone), 285 Front
*Clnton Pont Stone Co. (Crushed Stone, etc.), 115 B'way
Cohen, Michael & Co. (Freestone, etc.), 1133 B'way
Conklin & Foss Co. (Crushed), 299 B'way
Conlon, Jas. W. (Blue Stone), Av A & 65th
Cosgrove Bros. (Cut Contractors), 610 W 57th
Dilizia, R. & Co. (Stone Works), Hoffman & 187th
Dix, Chas. H. (Freestone), 15 William
Doyle, Geo. & Co. (Indiana Limestone), 287 4th av
Dunn, Bartholomew (Blue Stone Contractor), 444 E 68th
Erie Blue Stone Association, 280 B'way
Ferguson, Chas. H. (Crushed Stone), 30 Church
Ferguson, J. B. (Cut Stone), Ittner pl & Webster av
Finney, C. H. & Sons (Stone Contractors), 139 W 53rd
Fisher, R. C. Co. (Cut Contractors), 139th & Locust av
Flogaus, G. M. & Co. (Blue Stone), 245 E 138th
Foland, Peter (Blue), E 135th nr Park av
Giberson, E. F. & Co. (Cut Contractors), 45 E 17th
Gillings, Peter Co. (Blue Stone), 733 E 219th
Hanlein, Henry & Son (Cut Contractors), 417 E 103d
Henry, M. C. & Co. (Steam Stone Works, Brown & Indiana Stone, Cut Contractors), 403 E 104th
Hudson River Blue Stone Co. (Blue Stone, Wholesale), 50 Church
Hutchinson, John & Son (Cut Contractors), 2383 1st av
†INDIANA QUARRIES CO. (Blue & Buff, Oolitic, Ind., Limestone), 200 5th av. Quarries & Mills: Bedford, Ind.
Klingenbeck & Co. (Cut Stone), ft of E 106th
La Spina-Morris Cut Stone Co. (Cut Stone), 31 E 27th
Lenahan, Bernard J. (Cut Contractors), 293 Rider av
Liddle, John Cut Stone Co. (Cut Contractors), 402 E 107th
Lockwood, David T. (Blue Stone), 280 B'way
Lodge, Martin P. (Blue, Contractor), 532 W 44th
McCarthy, Jas. & Co. (Stone Yard), 640 W 51st
McLaughlin, Jas. Co. (Crushed), 28 W 144th
McWilliams Bros. (Blue), 1775 Topping av
*Manhattan Trap Rock Co. (Crushed), 30 Church
Marine, Arlando (Wholesale Dealers in Blue Stone), 7 E 42d
Maxwell's, Jno. Sons (Blue Stone, Wholesale), 51 Chambers
Meyers, Augustus (Cut Blue), 542 W 21st
Miller, David (Stone Works), 315 E 103d
Moran, D. W. (Blue Stone), 562 Burnside av
Murray & Co. (Crushed), 259 Ave C
Nevins, Edw. J. (Blue Stone), 638 W 51st
New York Cut Stone Co. (Cut Contractors), Walnut av & 133rd
Norcross Bros. Co., 160 5th av (Quarrymen & General Contractors in Granite, Marble & Stone; Large Structures a Specialty)
O'Connell, Michael (Blue Stone Contractor), 537 W 40th
Pagano, Jerome & Co. (Blue Stone), 444 E 104th
Penney & Bunt (Stone Yard), 132d & Willow av
Perry-Matthews-Buskirk Stone Co. (Wholesale Indiana), 200 5th av

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**PICTON ISLAND RED GRANITE** Co. (Pink & Red Granite), 320 5th av. (See adv. index, end of book)
Queens Borough Blue Stone Co. (Blue), 338 Rider av
*Rockland Lake Trap Rock Co., 299 B'way
Scully, Jno. H. (Bluestone Contractor), 431 E 101st
Seus, Rudolf (Cut Contractor), 406 E 109th
Sherwood, G. P. & Co. (Wholesale Dealers, All Kinds), 1123 B'way
Smith, Jno. R. (Cut Contractor), 421 E 103rd
Stockinger, Jacob (Blue), 332 E 64th
*Storm King Stone Co. (Crushed), 90 West
Superior Stone Co. (Blue), 706 W 179th
Sweeney, Peter B. (Blue), 206 B'way
Symmers, Jno. H. (Crushed & Cut), So Boul & 141st
*Tompkins, Calvin (Crushed, etc.), 17 Battery pl
Underwood, C. R. (Blue), 280 B'way
Vairo, George (Blue Stone), 608 Wales av
Valentine, V. & Co. (Cut Stone), Wales av & 142nd
Vesey, Jno. (Blue Contractor), 1121 1st av
Williams, B. A. & G. N. (Cut Contractors), Walnut av & 133rd
Woodward, C. F. Co. (Brownstone & Limestone), 1123 B'way
Woody, Howard L. (Freestone), 287 4th av
Young, Jas. H. Stone Co. (Cut Contractors), E 136th & Locust av

## Borough of Queens.

EVERGREEN—Evergreen Steam Stone Works (Breitenbach & Ruppenstein, Props.)
Werner, Paul (Cut Contractor)
FAR ROCKAWAY—Mills, Elmer D. (Cut Contractor)
FLUSHING—Doughty, Alonzo B. (Blue)
LONG ISLAND CITY—Beasley, Fitzpatrick Co. (Blue Stone)
Bradley, Wm. & Son (Cut Contractors), Vernon av
Brown, Geo. & Co. (Cut Stone)
Burke & Moran (Blue)
Call, Geo. & Co. (Cut Contractors)
Gillies, aJs. & Sons (Cut Contractors)
Jackson-McGlade & Co. (Cut Stone)
*Larsen Trap Rock Co. (Crushed)
McWhirter, W. H. Co. (Cut Contractors)
Miller's, Edwin Sons (Cut Contractors), Boulevard & Bodine
Morrison, David G. (Cut Contractor), 373 Vernon av
Reilly & Whalen (Blue), 74 Celtic av
Shuttleworth, Edwin Co. (Cut Contractors), Graham av & E R, Astoria
Williams, B. A. & G. N. (Cut Contractors). Mill & Orchard, Astoria
MASPETH—Seitz, Jacob (Cut Contractor)

## Borough of Richmond.

NEW BRIGHTON—Hart, P. & Sons
STAPLETON—Shake, Alexander
U. S. Doloment Co.
PORT RICHMOND—Staten Island Building Block, Paving & Crushed Stone Co.
Trettz, Herman

## (End of New York City)

NYACK—Nyack Trap Rock Co. (Sand, Gravel, Trap Rock & Broken Stone)
OLEAN—Foley Bros. Co. (Cut Stone)
ONEONTA—Dauley & Wright (Cut Stone)
*Ingalls Stone Co. (Office, Binghamton)
PHOENICIA—*McGrath, no. L. (Blue Stone)
*Simpson, A. J. (Blue)
PORTAGEVILLE — *Portageville Blue Stone Co.
*Genesee Valley Blue Stone Co.
PORT CHESTER—Merritt, H. A.
Ryan, W. Co. (Blue Stone)
PORT JERVIS—Bennett, Jno. E. (Cut Stone)
Nearpass, Wm. J. (Cut Stone)
POTSDAM — §Potsdam Red Sandstone Co. (Sandstone)
POUGHKEEPSIE—Joy, Walter A.
Seamon, Thomas H. (Blue Stone)
ROCHESTER—Brayer & Albough, Sherman & Bauer
Carson, Wm. & C. H. (Cut Contractors)
*Foery & Kastner (Cut Stone)
Lauer, Fred C. & Sons, 458 S Clinton av
Oliver, H. T. (Cut Contractor), 328 South av
*Whitmore, Rauber & Vicinus (Cut Contractors)
ROCKLAND LAKE—*Clinton Point Stone Co.
*Rockland Lake Trap Rock Co.
RONDOUT—(See Kingston)
ROSCOE—*Reynolds, W. J. (Blue Stone)
SAUGERTIES—*Maxwell's, Jno. Sons (Blue) (Office, Phila., Pa.)
SCHENECTADY—Crane-Vedeer Co.
Kellam & Shaffer (Cut Contractors)
Kinum, Andrew (Stone Contractor)
SCHOHARIE—*Mix, Frank G. (Blue & Grey Limestone)
SYRACUSE—Arnold, Conrad. 903 Montgomery
*Canal Quarry Co. (Crushed, Dimension, Building & Gray Limestone)
Crabtree, Jno. & Son (Cut Contractors & Flagging), 417 Burt
Nies, Adam F. (Flagging Yard), 337 W Jefferson
*Orleans Sand Stone Co., 438 S Salina
Thomas, Chas., 1103 S State
TARRYTOWN—Dinkel & Jewell Co. (Blue & Building)
TOMKINS COVE—*Tomkins Cove Stone Co. (Crushed, etc.)
TROY—*Corliss Construction Co.
Grant, Chas. M. (Freestone)
Lee, Jas. F. (Cut & Blue)
Young, Wm. H., Jr. (Cut Stone)
Young's Sons & Co. (Cut Stone)
TUSTEN—*Hankins, W. H. (Blue)
UTICA—*Conley, F. E. Stone Co. (Blue & Crushed)
Fuller's Electric Cut Stone Works
McNierney Bros. (Flagging & Cut Contractors)
Utica Stone & Construction Co.
VERPLANCK—*Clinton Point Stone Co. (Office, New York City)
VOORHEESVILLE—*Cummings Bros. (Blue)
WALTON—*Connor, Martha L. (Blue Stone)
Shaw, Herbert (Blue Stone)
WARSAW—*American Blue Stone Co.
*Portageville Blue Stone Co.
*Warsaw Blue Stone Co.
WATERLOO—*Thomas, G. C. & Bros.
YONKERS—Corkery, Jno. J. (Blue)
Kellock, Jas. A.
Kellock & Bogart (Blue)

## NORTH CAROLINA.

ASHEVILLE—*Balfour Quarry Co.
CHARLOTTE—Ward, W. W. & Co. (Dealers)
GREYSTONE—*Linehan, P. & Sons (Cut Contractors)
MOUNT AIRY—(See Granite Producers)
SANFORD—*Carrington & Gonella Stone Co.
WINSTON SALEM—*Bennett Bros.

## OHIO.

ALLENTOWN—*Long, T. C.
AMHERST—*Amherst Cut Stone Co.
**OHIO QUARRIES CO. (Buff & Blue** Ohio Sandstone, Sawed Stone a Specialty)
ASHTABULA—Smith, Wm. & Son (Stone, Cut)
BEACH CITY—*Winfield Bros. & Co.
BELLEFONTAINE—§Bellefontaine Stone & Lime Co. (Crushed, Ballast, etc.)
Patterson, W. T. (Cut Stone)
BELLEVUE—*Bellevue Stone Co. (Crushed)
*Higgins Stone Co.
BEREA—*Middleburg Stone Co. Office, Elyria, Ohio
BERLIN HEIGHTS—*Baillie Stone Co.
BLOOMVILLE—*France Co.
*North Baltimore Stone Co.
BLUFFTON—Bluffton Stone Co. (Office, Lima, Ohio)
BOWLING GREEN—*Mercer Stone Co.
BUCYRUS—*Brokensword Stone Co.
CAMBRIDGE—Pyles, Thos. (Flagging)
CANTON—Bauhof Bros. (Cut Stone)
Lang, E. D. (Cut Stone)
CAREY—*National Lime & Stone Co. (Crushed, etc.)
CARROLLTON—*Marshall, Jesse
CENTERVILLE—*Manuel, James
CINCINNATI—Agness, Jas. W., Builders' & Traders' Exch
*Bauer, Jno. G., Quebec rd nr Liberty
Bloomington-Bedford Stone Co. (Indiana Oolitic Limestone), Groton bldg
*Bruestle, Fred, Liberty W of Grand av
Buckeye Marble Co. (Cut Contractors), 3d & Eggleston av
Buente, Louis C. (Stone Yard), 3664 Spring
*Buetsche, Chas., Wine Press rd Grove
Buena Vista Freestone Co., Mitchell bldg
Caden, Otto, Mitchell bldg
Cincinnati Crushed Stone & Gravel Co., Union Trust bldg
Contractors' Stone & Gravel Co., Builders' & Traders' Exch
Dauch, Gregor, 2924 Vaughn
Dayton Limestone Co. (White Limestone), Swift bldg
Enterprise Stone & Granite Co., Reading rd
Giese, Fred, 1807 Queen City av
Graveson, Wm. (Cut Stone), Symmes nr
Gray, H. F., Traders' Exch Montgy rd
Hall, Thos. J., 450 E Pearl
*Hillsboro Stone Co., Builders' & Traders' Exch
Holley, C. E. (Freestone & Sandstone), Johnston bldg
Hummel, David Building Co. (Cut Contractors), 2629 Spring Grove av
*Kemper, Joseph, Purcell av nr Murdock av
*Kentucky Freestone Co. (Inc.) (Blue, Buff Olive Rockcastle Stone), 2629 Spring Grove av. Mills, Langford, Ky.
*Kentucky-Rockcastle Stone Co., Builders' & Traders' Exch
*Kirchner Construction Co., 8th & Plum
Lang, C. & Co. (Cut Contractors), 416 E 13th
McClure, T. F. & Sons Co. (Dealers), 43 Perin bldg
*McDermott Stone Co., Builders' & Traders' Exch
McDonald, Charles (Cut Contractor), 1223 Martel, W. E., 1550 Boston Poplar
Mersch's, Frank Sons, 1548 Freeman av
Miami Stone & Gravel Co., Builders' & Traders' Exch
*Miller, John, 2463 Montana av
Moores-Coney Co. (Limestone), Union Trust bldg
Nagele, Anton, 2168 Western av
Pielage, Henry & Co. (Freestone & Limestone), 1014 Flint
Raff, Allan Ross, Mitchell bldg
Ridgway J. B. (Indiana Flat Rock), Johnston bldg
*Rockcastle Stone Co. (Blue, Buff & Grey), 414 E 8th
*St. Paul Stone Quarries Co., 2d Nat'l Bank bldg
Spinks, W. T., 1205 Madison av
*Spitzmiller, Jos., 2192 Shadwell
*Spitzmiller, L. & A., 2197 Clara
*Stagge, Hy. & Sons, Madison rd nr Beechwood av
Statler D. C. Co., Builders' & Traders' Ex
*Thomas, Warren, Bodley av nr Mt. Hope
*Thornton, H. L., Johnston bldg av
*Westport Stone Co., Builders' & Traders' Exch
World's Fair Wrecking Co. (Freestone, etc.), Richmond & Horne
CLEVELAND—Baillie Stone Co., The Arcade
Blum & Delbridge (Cut Contractors), Bittern av & E 73d
Brook, John & Son (Cut Contractors), 2169 E 28th
*Burgess. C. H., Euclid Quarries
*Caine Stone Co. (Sandstone), Warner rd & C & P Ry
Carabelli, Jos. (Cut Stone), Euclid av opp Lake View Cemetery
*Cleveland Stone Co. (Sandstone, Blue, Buff, etc.), Hickox bldg
*Columbia Stone Co. of Cleveland (Sandstone), Soc. for Sav. bldg
Elyria Stone Co., Williamson bldg
*Grafton Stone Co., Hickox bldg
Holran Stone & Lime Co., New England bldg
†**INDIANA QUARRIES CO. (Blue & Buff,** Oolitic, Ind. Limestone), Hickox **bldg; Quarries & Mills:** Bedford, Ind. (See adv. Front Cover)
*Malone Stone Co. (Sandstone. Blue, Buff, etc.). Garfield bldg
*Maxwell-Rolf Stone Co., Williamson bldg
Murray Stone Co., Williamson bldg
**OHIO QUARRIES CO. (Blue & Buff.** Ohio Sandstone, Sawed Stone a Specialty), Citizens' bldg, Quarries & Mills, Amherst, O.
*Spence Bros. Construction Co. (Crushed Limestone & Trap Rock)
CLOVERDALE—*Blasser. John
COLD SPRINGS—*Strunk-Meyer Lime Co.
COLUMBUS—*Capitol Limestone Co.
Casparis Stone Co. (Cut & Crushed)
*Columbus Macadam Co.
*Fish Stone Co. (Cut Contractors)
Kientz, John (Cut Stone)
Lang, E. & C. (Cut Contractors)
Mueller, H. W. (Dealer)
Sharp, R. L. Stone Co.
Woodruff & Pausch Stone Co. (Crushed)
COLUMBUS GROVE—*Columbus Grove Stone
CONSTITUTION—*Cleary. Thomas Co.
*Constitution Stone Co. (Sandstone)
CONVOY—*Carey, J. B.
COVINGTON—*Jackson, C. H.

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DAYTON—*Dayton Limestone Co. (White Limestone)
Herman Bros. (Cut Stone & Mills)
Luyster & Lowes (Cut Contractor), Con-
*New Jasper Stone Co. over bldg
*National Stone Co.
DELAWARE—*Scioto Lime & Stone Co.
DELPHOS — *Fisher, Aaron (Building &
*Ford, E. J. Crushed)
DUNBAR—*Purnell, A. V. (Ligonier Blue)
EIFORT—*Morgan & Horton (Limestone)
ELYRIA—*Grafton Stone Co.
Middleburg Stone Co. Quarries, Berea, O.
*Smallwood, Edward
FINDLAY—*Hancock Stone Co. (Crushed, etc)
Smith, A. M. (Cut Stone)
Tarbox & McCall (Limestone)
FORT JENNINGS—*Fort Jennings Stone Co.
FREESTONE—*Coe, M. & Sons
*Swint Bros. Stone Co. (Freestone)
FREMONT—*Gottron Bros. (Limestone)
FULTON—*Fulton Stone Co.
GRAFTON—*Grafton Stone Co. (Blue & Buff Sandstone)
GREENFIELD—*Rucker Quarries (Limestone)
HAMILTON—Horssnyder, F. (Cut Contractor)
Stewart, F. P. Granite Co. (Cut Contrac-
HOLLAND—*France Co. tors)
INDEPENDENCE—*Faudel, Henry J.
IRONTON—Wileman & Hebling
KELLEYS ISLAND—Kelly Island Lime & Transport Co.
KENTON—Kenton Marble & Granite Co. (Cut
LAFAYETTE—*Watt Bros. Stone)
LEETONIA—*Shenango Limestone Co. (Limestone)
LEWISBURG—*Lewisburg Stone Co.
LIMA—*Buffton Stone Co.
*Hiner Stone Co. (Crushed, etc.)
*Klinger Stone Co.
*Lewisburg Stone Co.
Lima Cut Stone Co.
*Southern Ohio Stone Co.
LITHOPOLIS—Leindacker, Mrs. & Son
LOWELLVILLE — *Carbon Limestone Co. (Branch of Youngstown, O.)
McDERMOTT—*McDermott Stone Co. (Blue & Buff Sandstone)
*Southern Ohio Vault Co. (Stone Burial Vaults, Grave Covers, etc.)
*Waller Bros. Stone Co.
MADISONVILLE—Julien, Jas. (Cut Contractor)
MANSFIELD—*Frances, E. H. Sons (Crushed Limestone)
Fraser, Alex. & Co. (Dealers)
Wolff, E. M. & Co.
MARBLE CLIFF—*Casparis Stone Co. (See Columbus, O.)
MARIETTA—McLaren & Wommer (Cut Stone)
*Marietta Stone Co.
MARION—*Evans, John Lime & Stone Co.
*Hamilton, J. M.
*Hinomon, D. M.
*Marion Lime & Stone Co.
*Moline Lime Stone & Cement Co.
*Ohio & Western Lime Co. Office, Toledo, Ohio
MASSILLON—*Massillon Sand & Stone Co. (Sandstone)
*Massillon Stone & Firebrick Co.
Meinhart, Jno. & Son (Contractors)
*Sonnhalter Sand & Stone Co.
NEW PHILADELPHIA—Beiter, Jos. (Cut
*Layland Sand & Stone Co. Stone)
NILES—National Sand & Stone Co.
NORWOOD—Stagge, Henry
PATTERSON—*Herzog, Jno. & Son (Building)
PIQUA—*Ohio Marble Co.
*Statler Stone Co. (Limestone)
PORTAGE—*Mercer, Geo. E. (Crushed)
PORTSMOUTH—*Bodmer Bros.
RARDEN—*Taylor Stone Co. (Blue, Buff & Gray Sandstone)
SANDUSKY—*Butler Stone Co.
*Wagner Stone Co.
SPRINGFIELD—Crist, Wm. L., Jr.
*Houlton, Samuel P., Lagonda Creek
*Mills Bros. (Building, Bridge, Flagging, etc.)
*Rubsam, Earl J., Mad River nr National rd
*Taylor, Samuel S., Dayton pike nr Corp
STEUBENVILLE — *La Belle Iron Works (Limestone, all Consumed by the Com-
Steubenville Stone Co. pany)
SUGAR GROVE—*Sharp, R. L. Stone Co. (Sandstone)
SUNBURY—*Sunbury Stone Co.
SYLVANIA—*Sylvania Stone Co. (Crushed, etc.) (Office, Toledo, O.)
TIFFIN—Stewart, George
West Lime & Stone Co.
TOLEDO—Eckhardt Monumental Co. (Cut
*France Co. Stone)
Knopp Bros. Co. (Cut Contractors), c Oak & Belt Line Ry
Libbe, Henry (Flagging, etc.), Champlain nr Elm
Lloyd Bros. Co., W Central & Auburn avs
Neukom, Albert (Cut Contractor), 140
*Ohio & Western Lime Co. Ottawa
*Sylvania Stone Co. (Crushed, etc.)
Toledo Stone & Glass Sand Co., Ohio bldg
URBANA—Creagor, C. C.
Heatherman, Patrick
VAN WERT—*Big Four Crushed Stone Co. (Crushed)
*Erie Stone Co. (Crushed, etc.)
*France Co.
WASHINGTON, C. H.—Burke, P. J. (Cut
WATERVILLE—*France Co. Stone)
WEST CLARKSFIELD—*Warner Stone Co.
WHITE HOUSE—*Whitehouse Stone Co.
YOUNGSTOWN—*Arrel Limestone Co.
*Bessemer Limestone Co. (Limestone)
Campbell Bros. Co. (Dealers)
*Carbon Limestone Co.
*Hartford Stone Co.
*Interstate Limestone Co.
*Lake Erie Limestone Co.
*Quaker Falls Stone Co.
*Union Limestone Co.
ZANESVILLE—Cary, F. S. & Co. (Cut Stone)

## OKLAHOMA.

ALVA—*Alva Stone Works
APACHE—*Dolese Bros. Co. (of Chicago)
CRUSHE—*Dolese Bros. Co. (of Chicago)
MUSKOGEE—*Muskogee Crushed Stone Co.
New State Cut Stone Co.
OKLAHOMA—Oklahoma Granite & Monumental Co. (Cut Stone)
Powers, J. C. (Cut Stone)

## OREGON.

PORTLAND—*Nease, M. G. Co.
*St. Helens Quarry Co. (Building Stone, etc.), Front & Ankeny

## PENNSYLVANIA.

ALLENTOWN—Ochs, M. T. J.
Kline & Sacks (Cut Contractors)
Romig & Bear (Cut Stone)
Shoemaker, G. W. (Cut Stone)
ALTOONA—Altoona Sand Stone & Brick Co.
*Conemaugh Stone Co.
McGinley, Jno. B. (Cut Stone)
Vipond Construction Co. (Cut & Flagging)
ANNVILLE—*Annville Stone Co.
*Batdorf & Forney
*Calcite Quarry Co.
Kreider, Jos. H. & Son
*Millard, J. B. & Son
*Vulcanite Limestone Co.
Wood, H. A. (Cut Contractor)
AVONDALE—*Williamson, F. & Co.
BECHTELSVILLE—Hoffman, Oliver
BETHLEHEM—Bethlehem Lime & Stone Co.
BIRDSBORO — *Birdsboro Stone Co. (See
*Dyer, Jno. T Quarry Co. Phila., Pa.)
BLAIRSVILLE—Murray, C. F.
BRADDOCK—*Braddock Stone Co.
BRIDGEPORT—*Tyson, Jacob L.
BRISTOL—Banister, Jos. (Flag & Building Stone Cutter)
BURMONT—*Maher, Philip & Sons
BUTLER—Hobaugh, J. S.
*Schaffner, Geo.
CANOE CREEK—*Blair Limestone Co. (Limestone) (See Pittsburg, Pa.)
CARNEGIE—Carnegie Brick & Stone Co.
Fort Pitt Stone & Brick Co.
CHESTER—Burns, D. H. (Blue)
*Chester Stone Co.
Cullis, Hy. W.
*Hanna Stone Co.
*Leiper, Callender I.
*Leiper, Mrs. Eliza
*Miller, Alexander
CONNELLSVILLE—Palmer Bros. (Cut Stone)
Standard Lime & Stone Co.
CONSHOHOCKEN—*Conshohocken Stone Quar-
Daly, Michael ry
*Derr, Walter (Ivy Rock)
O'Neill, Thos. M. & Co.
*Schuylkill Stone Co. (Building, Bridge,
CORRY—*Colegrove, James etc.)
CURWENSVILLE—*Clearfield Quarrying Co.
*Roaring Run Stone Co.
DANVILLE—Evans, T. L. Sons (Cut Contractors)
EARLSTON—*Thropp, Joseph E. (All Limestone for Blast Furnace Use)
EASTON—Howell's, D. J. Sons (Cut Stone)
Kelly, Patrick (Blue)
*Thomas Iron Co. (Limestone, all Consumed by the Company)
EDGEHILL—*Comly, Frank T.
*Edge Hill Silica Rock Co.
ELLWOOD CITY—*Clydesdale Stone Co.
*Consolidated Stone & Mining Co.
Ellwood Stone Co.
*Kimberly Stone Co.
EPHRATA—Bolster Bros. (Cut Stone)
ETNA—Undercliff Stone Co.
FALLS CREEK—*Grocella Stone & Sand Co.
FRANKSTOWN—American Lime & Stone Co.
GREEN LANE—*Davis Trap Rock Quarry Co.
*Hendricks Quarry Co.
*Perkiomen Crushed Stone Co. (Crushed, etc.)
GREENSBURG—Hunker Sand & Stone Co.
Unity Sand & Stone Co.
GREENVILLE—*Greenville Silica Sand & Halpin, P. J. (Cut Stone) Quarry Co.
GROVE CITY—*Uber & Breckenridge Stone Co.
HANOVER—Kuhn, F. X. (Cut Contractor)
Meyers, Emanuel B. (Limestone)
HARRISBURG—Black, Jno. (Cut Contractor)
HAZLETON—*Kehoe & Co.
HIGH SPIRE—*Zimmerman, Solomon
HOLLIDAYSBURG—American Lime & Stone
§Baldridge, E. R. & Co. (Limestone) Co.
HOMESTEAD—Erbeck, F. J. (Cut Contractor)
JOHNSTOWN—Bader & Co.
*Cambria Steel Co. (Limestone, all consumed by the Company)
Rowan Stone & Sand Co.
Somerset Stone Co.
*Valley Coal & Stone Co.
KING OF PRUSSIA—*Schweyer, Hy. A. Co.
*Schweyer & Leiss (Blue)
LANCASTER—*Betz, Jacob
Haldy Marble & Granite Works
Heidig, John B.
Hook, John H.
Lancaster Cut Stone Co.
Moedinger's, Jno. M. Sons
LEBANON—*Bassler Limestone Co.
*Brensinger, E. H.
Hartlieb & Bro. (Cut Contractors)
*Hauck, A. B.
*Kline, S. M.
*Lebanon Stone Co.
*Millard, J. B. & Son
*Mount Gretna Brownstone Co.
McKEESPORT—Bowman Bros. (Freestone)
Winters, Edwin (Cut & Flagging)
McKEES ROCKS—Bryan, Frank
Petty, Wm.
MALVERN—Green, Wm. S.
MERCER—Robinson, N. T. (Flagging)
MYERSTOWN—*Calcite Quarry Co. (Limestone. (See Annville, Pa.)
*Deitz, Harry & Son
*Hartleib & Bro. (See Lebanon, Pa.)
*Millard, J. B. & Son. (See Lebanon, Pa.)
NEW BRIGHTON—*Smith, A. F. & Co. (Sandstone)
NEW CASTLE—*Beaver Valley Sandstone Co.
*Croton Limestone & Brick Co. (Limestone)
*Isabella Limestone Co.
*Johnson, Geo. W. Limestone Co. (Lime-
*Lawrence Limestone Co. stone)
*Mahoning Limestone Co. (See Pittsburg,
*National Stone Co. Pa.)
*New Castle Limestone & Clay Co.
*Pittsburg Limestone Co.
*Shenango Limestone Co.
NICHOLSON—*Nicholson Stone Co.
*Pardene, E. G.
*Shields, Moses Stone Co. (Cut & Sawed)
NORRISTOWN—*Dyer, John T. Quarry Co. (Building & Crushed)
Landis, Isaac (Flagging & Cut)
*Lukens & Yerkes
*Richardson & Ross Quarry Co., Mogeetown
Sullivan, W. M. (Cut, Contractor)
*Walmer & Hetrick
OIL CITY—*Oil City Sandstone Quarry Co.
PALMYRA—*Dietz, Harry & Son (Limestone)
*Hershey Stone Co.
PHILADELPHIA—Ambler-Davis Co., Harrison bldg
Barber Asphalt Paving Co. (Kettle River Sandstone), Land Title bldg
Birney & Co., Heed bldg
Buck & Gallagher (Cut Contractors), S 9th Wolf
Bye, Thos. (Granite), 62nd & Kingsessing

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Clark & Co., 4415 Frankford av
*Conemaugh Stone Co. (Coping & Concrete Stone), Arcade bldg
Consolidated Stone Co., Witherspoon bldg
Copeland, Hugh & Sons (Cut Contractors), S 24th & Washington av
Costigan, Lawrence, Church la & Baynton, Gtn
Craig, Chas. (Contractor), 2632 Columbia av
*Davis Trap Rock Quarry Co., 133 S 12th
Delaware River Quarry & Const. Co., Arcade bldg
Dodds, Jno. A. (Cut Contractor), 210 S 24th
Dolan, T. & J., 314 S 24th
Dyer, John T. Quarry Co., Harrison bldg
Eastern Marble & Granite Works, 2700 Diamond
Flynn, Jno. E. (Cut Contractors), Wayne Junction
France, David Co. (Crushed & Building), Tasker st Wharf
Gallager, Wm. C., Ogden & Union
Garrett, Jas. & Co., 1432 S Penn sq
General Crushed Stone Co., Franklin Bank bldg
Giles, McMichael & Co. (Cut Contractors), 2929 Ellsworth
Giles & McLaughlin, 1923 Wash'n av
Gray, Wm. & Sons (Cut Stone Contractors), S 30th bel Walnut
Hagan, John & Co. (Stone Yard), cor Delaware River & Comly Wissnig
Harrison, R. C. & Co. (Wholesale), 24th cor Walnut
Hastings & Morrison (Cut Contractors & c Saw Mills), 1510 Wash'n av
Hauser, John, 2333 Ridge av
Hayes & Sons, 2935 Ellsworth
*Hendricks Quarry Co., Heed bldg
Holmesburg Granite Co., 1210 Fidelity Mutual Life bldg
Ireland, W. H. Stone Crushing Co., 1220
*Keenan, D. F., Arcade bldg Filbert
Kirkpatrick Bros. (Cut Stone Contractors), 23d & Washington av
Lambertville Stone Quarry Co., 1220 Filbert
Law & Burwell (Cut Contractors), 24th cor Locust
*Lukens & Yerkes, St. Girard bldg
Maxwell's, Jno. Sons (Blue), 30th below Spruce
*Mermaid Stone Quarry, 7811 Germantown
O'Neill, Jerry & Co., 7811 Gtn av av
Patterson, R. & Co., York ab Butler
Penn Quarry Co., Arcade bldg
**PENNA. MARBLE & GRANITE CO.** (Cut Stone Contractors), Penna bldg. (See adv. index, end of book)
*Penna Steel Co. (Limestone for Company's Own Use), 1421 Chestnut
Peoples Bros. (Building & Crushed), N 25th & Callowhill
Reilly, Thos. (Cut Contractor), 1610 Thompson
*Richardson & Ross Quarry Co., Penna bldg
*Ridgway, B. & Son (Wyoming, Blue, Rough & Cut Work), N 9th & Columbia av
*Roaring Run Stone Co., Penna bldg
Rutan, Jno., Heed bldg
Ryder & Jenkins, 3641 Woodland av
*Schuylkill Stone Co. (Building, Crushed, etc.), Bulletin bldg
Shanley, J. F. Co. (Heavy Masonry), Ar-
Tyson, J. L., 900 Jeff cade bldg
Williamson, Frank (Indiana & Ohio Buff & Blue, Conn. Brown & Broken, Wholesale), 24th & Locust

PHOENIXVILLE—Detwiler, G. A. (Cut Contractor)

PITTSBURG—Aitkenhead, Wm. (Cut Contractor), 1222 Irwin av, N S
Alston, A. & Son, Grant & Penna avs
Bachman, Adam, 16 S 22d
Beaver Valley Sand Stone Co., House bldg
Berge & Melville (Cut Contractors), River av & Craig st, N S
Booth & Flinn (Ltd.), 1942 Forbes av
Brogan, Edward (Cut Contractor), 1215 Franklin, N S
*Carnegie Steel Co. (Limestone for Their Own Use). Quarries at Mercer, Pa.
Clark Bros. Co. (Cut Contractors), Bayard & Preble av, N S
§Cleveland Stone Co., 316 4th av
*Clydesdale Stone Co. (Bridge, Rubble, Dimension, etc.), Lewis bldg
*Consolidated Stone & Mining Co. (Sand Stone), 307 5th av
Co-Operative Stone Co., 4437 Howley av
Coutts, Thos. & Co. (Cut Contractors), 3301 Penn av
Craig Stone Co., Lewis bldg
Dallas & Nardulli, 7915 Batavia
Damm, Jos., 1523 Howard, N S
Downey & McDermott, Homewood av & Mt. Vernon
Ellwood Stone Co., House bldg
Fritz, Geo., 1213 East, N S
Genet, Geo. J., 3047 Glenmawr
Haffner, H. B., 1220 Irwin av
Happ, Louis (Cut Contractor), 1315 Penna
Hartbaur, Daniel, 4115 Liberty av av
*Hill, John C. (Dimension, Curb & Rubble), Park bldg
Holmes, Samuel (Cut Contractor), 39 Riverview
**INDIANA QUARRIES CO. (Blue &** Buff, Oolitic, Ind., Limestone), Empire bldg. Quarries & Mills, Oolitic, Ind. (See adv. Front Cover)
Knox, Strouss & Bragdon (Cut Contractors), Juniata, N S
Krah, Amend, 1814 Ravine
Kress, Paul (Cut Contractor), Main st, N S
Krum Granite & Stone Co., 23 Federal
Malone Stone Co., Farmers' Bank bldg
Midland Limestone Co. (Limestone). Quarries: Warford, Pa.
Miller, John W. (Cut Contractor), 70 Melrose av, N S
Morris, A. G. & Son Lime & Stone Co., Empire bldg
Morrison Bros. Co. (Cut Contractors), 459 South av
*Rejublic Iron & Steel Co. (Limestone, all Consumed by the Company)
Reinhardt, Sebastian (Cut Contractor), Summer av
Telthorst, Wm., Spring Garden rd
Ward, J. H. & Sons Co., Park & Nelson
Weber, Geo., 312 Evaline
West End Stone & Brick Co., 121 Wabash
Winfield Mineral Co. (Limestone), 421 Wood
Wissner, Henry, 1715 Wash'n av, N S
Wolf, Louis, Berlin & P R R
Yost, Jno., Jackson Run rd

POINT PLEASANT—*Heany, Nicholas L.

PORT KENNEDY—*Erwin, Arch. B. (Limestone)

POTTSTOWN—§Nagle, Geo. W. (Dimension)
Portland Contracting Co. (Cut)

QUAKERTOWN—*Clark, Josiah (Flagging)

READING—Ahrens, H. E. Co. (Contractors)
Eben, Frank W.
Eberl, S. & Co., 730 Olney
Faust, J. K., 123 N Front
Mt. Penn Sand & Stone Works, 216 N 10th

ST. MARYS—Klausman & Dippold (Cut Stone)

ST. PETERS—*Krauer, David J.

SALONA—*Nittany Lime & Stone Co. (Crush-

SCHWENKVILLE—Koons, T. S. ed, etc.)

SCRANTON—*Carlucci Stone Co. (Cut Con-
*Empire Limestone Co. tractors)
Ruddy, M. J. (Cut Contractor)
*Stipp, Peter (Blue and Yellow)
Sykes, Samuel & Sons (Cut Contractors)
*White Haven Quarry Co.
*Woelkers, Beilman, Zitzelman (Mountain Quarries)

SHAMOKIN—Barr, Peter (Flagging)

SHARON—McIntyre, Wm. & Sons (Cut Stone Contractors)

SHARPSBURG—*Undercliff Stone Co.

SHARPSVILLE—*Frampton, P. M. (Limestone, Crushed, etc.)

SOUDERTON—*Progressive Realty Co.

SOUTH BETHLEHEM—*Bethlehem Steel Co. (Limestone, All Consumed by the Company)
General Crushed Stone Co. (Inc.) (Crushed R. R. Ballast, etc.)

STEELTON—§Cumbler, Geo. W. (Est. of) (Limestone)
Messenger Bros. (Cut Stone)
Penna. Steel Co. (See Phila., Pa.)

TEMPLETON—*Templeton Limestone Co. (Limestone, etc.)

TYRONE—§American Lime & Stone Co. (Lime-
*Pittsburg Limestone Co. stone)

WALKERS MILLS—*Walkers Mills Stone & Brick Co.

WAMPUM—*Beaver Valley Sandstone Co. (See
*Cambria Limestone Co. New Castle, Pa.)
*Clydesdale Stone Co. (See Pittsburg)
*Consolidated Stone & Mining Co. (See Pittsburg)

WARFORD—Midland Limestone Co. (See Pittsburg, Pa.

WASHINGTON—Hallam Construction Co.

WAYNE—*Johnson, Richard H. Co.
*McClellan, Wm.

WAYNESBORO—*Decarbonated Lime & Stone Co.

WEST CHESTER—Corcoran Construction Co.

WEST CONSHOHOCKEN—*O'Brien, Lewis H.
*Phila. & Conshohocken Stone Quarry Co.

WEST GROVE—*Penna. Marble & Granite Co. (Cut Contractors). (See Phila., Pa.)

WILKES-BARRE—Schmitt's, John A. Sons (Laurel River Red)
Stemmer & Geick (Cut Stone)

WILKINSBURG—Enterprise Brick & Stone Co.
Hill, Jno. C.
Holmes, Samuel
Iron City Stone & Const. Co. (Cut Contractors)
*New Kensington Stone Co. (Bridge, Curb
Raigig, Chas. & Rubble, etc.)

WILLIAMSPORT—Carothers, A. K.
Gibbons, J. E. (Cut Stone)
Stuempfle, A. (Flagging)
Stuempfle's, D. Sons
Susquehanna Stone Co.

YORK—*Baker, J. E. & Co. (Limestone & Lime Mfrs.)
§York Valley Lime Co. (Limestone)

## RHODE ISLAND.

EAST PROVIDENCE — *McCormick, Jos. (Foundation, Building & Crushed)

NEWPORT—Riggs, Geo. H.

PROVIDENCE—Bishop, J. W. & Co. (Cut Limestone Contractors), Butler Exch
Goff, Jas. C. (Blue), 31 Point
Manchester & Hudson (North River Blue)
Norcross Bros. (Brown & Red, Sand & Cut Contractors), 49 Westminster
Rhode Island Brown Stone Works (Brown & Red, Sand & Cut Contractors), Leland nr Brown & Sharpe's
Stone, Jos. T. (Cut Contractor), Allens av & Seymour st

## SOUTH CAROLINA.

COLUMBIA—Hyatt, F. H.

## SOUTH DAKOTA.

SIOUX FALLS—Ballard & Son (Cut Stone)
Perry, Geo. H. (Dealer)

## TENNESSEE.

CHATTANOOGA—* Chickamauga Quarry & Construction Co.
Troutt, John & Co. (Cut Contractors)

MEMPHIS—Anderson, Axel (Cut Contractor)
Christie & Aitken (Cut Contractors)
Jenkins, Thos. & Co. (Cut Contractors)
Kastner Cut Stone Co. (Cut Stone)
Morriss Bros. (Cut Contractors & Saw
Rice, J. M. (Cut Contractors) Mills)

NASHVILLE—Bardon-Fulcher Cut Stone Co.
Engelbert & Co. (Cut Contractors)
Foster & Herbert Cut Stone Co.
Hardison, W. T. & Co. (Dealers)
*Newsom Crushed Stone & Quarry Co.
*Oman Bowling Green Stone Co.
Oman Stone Co. (Cut Contractors)

## TEXAS.

AUSTIN—*Austin White Lime Co. (Limestone)

DALLAS—Moore & Co. (Dealers)

DENISON—Chamberlain, A. P. (Cut Stone)

EL PASO—*Mount Franklin Lime & Stone Co.
Pioneer Marble & Granite Co. (Cut Stone)

FORT WORTH—Henderson, James
Huffman, J. B.
Hughes, David
U. S. Construction Co.
Wells Bros. (Cut Stone)

HOUSTON—Zerbe Marble & Granite Works

KERRVILLE—*Richards, B. C. (Cut Stone)

## UTAH.

OGDEN—Mitchell Bros. (Cut Contractors)

SALT LAKE CITY—Ashton, Whyte & Skilli-
Johnson, C. O. (Cut Stone) corn Co.

## VERMONT.

(See Granite Producers, Workers & Dealers; also Marble Producers)

## VIRGINIA.

DINWIDDIE—Petersburg Granite Co.

NORFOLK—Anthony, Arthur G.
Consolvo Stone Co.

PORTSMOUTH—Ogg, A.

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RICHMOND—Gemmell, Robert, 902 Catharine
Mason, Wm. R. (Cut Contractor), 1601 W Marshall
Matzke, Otto A. (Cut Contractor), 2920 Walter
ROANOKE—*Roanoke Stone & Lime Co.
SCHUYLER—*Virginia Soapstone Co. (Soapstone)

## WASHINGTON.

BELLINGHAM—*Chuckanut Stone Co. (Building, etc.)
SEATTLE—*Charleston Quarry
Port Angeles Stone Co., N Y blk
*Riverside Stone Co., Marion bldg
Seattle Cut Stone Contracting Co., 16th av & Alva
*Sucia Island Quarry Co., Bailey bldg
*Tenino Stone Co. ("Tenino," Blue Sandstone, a fine Building Stone). Works: Tenino
*Waldron Island Stone Co.
SPOKANE—Sterling Stone Co.
Washington Monumental Stone Co.
TACOMA—Donnellan & McKenzie (Cut Contractors)
Erikson & Anderson (Stone Contractors)
Walker Cut Stone Co. (Cut Contractors)
TENINO—*Hercules Sand Stone Co.
*Tenino Stone Co. (See Seattle)

## WEST VIRGINIA.

BUNKER HILL—*Baker, J. E. Co. (Limestone & Lime Mfrs.)
GRAFTON—*Brydon, J. C. Bros. Co.
Grafton Sand & Stone Co.
HINTON—Noel, R. E.
MARTINSBURG—*Blair Limestone Co. (Office, Pittsburg, Pa.)
*National Limestone Co.
*Security Cement & Lime Co. (See Baltimore, Md.)
*Standard Lime & Stone Co. (See Baltimore, Md.)
MORGANTOWN—Weaver-Knowlton Stone Co. (Cut Contractors)
ROWLESBURG—*Preston Bluestone Co.
WHEELING—Rosenberg, J. H., Jr.
*Wheeling Limestone Co. (Crushed Limestone)

## WISCONSIN.

ABLEMAN—*Gall, Wm.
APPLETON—*Smith Stone & Brick Co. (Building)
ASHLAND—*Donald, A. & Co. (Cut Contractors)
CLINTONVILLE—Melzer, William (Building & Cutter)
EDEN—Eden Independent Lime & Stone Co. (Limestone)
GREEN BAY—Green Bay Cut Stone Co.
*Greenleaf Stone Co.
Vincent, Ralph S.
JANESVILLE—*Eureka Stone Quarry
LA CROSSE—*La Crosse Stone Co. (Crushed, Paving, Building, etc.)
LANNON—*Cawley, Barney
*Davis Bros.' Stone Co.
*Flanagan & Sons
*Froemming Bros. Quarry Co.
*Harmon, H. & Sons
*Lake Shore Stone Co.
*Lannon Quarry Co.
*Seefeld, G. F.
*Sheridan Bros.
*Wallen, Gurnz Quarry Co.
MANITOWOC—Kettenhofen, N. (Cutter)
MARBLEHEAD—*Nast Bros. Lime & Stone Co. (Limestone)
*Union Lime Co. (Limestone) (See Milwaukee)
MILWAUKEE—Andres Stone & Marble Co. (Cut Contractors), Keefe av & Richards
Dankert, Chas. J., 756 6th
General Construction Co. (Cut Contractors), 31st & Galena
Kies, Wolfgang, 3310 Vleit
Lannon Crushed Stone Co., 3019 Wright
*Lake Shore Stone Co., Ry Exch bldg
*Manegold, A. F. & L., 47th & State
Manz, Joseph, 1609 Clark
Mattusch, Frank & Co. (Cut Contractors), 3702 Chestnut
Meyers Bros. (Cut Contractors), cor E North av & Newhall
Monarch Stone Co., Wells & Hawley rd
Schmidt, P. & Co. (Cut Contractors), 355 E North av
*Story Bros. (Limestone), 204 Grand av
Tingley, C. Wallace (Cut Contractor), 720 31st
Vollbrecht & Olsen, 416 Western av
*Waukesha Lime & Stone Co. (Rubble, Dimension, etc.), 1211 Humboldt av
*Wauwatosa Stone Co. (Limestone), 204 Grand av
*Western Lime & Cement Co., Pabst bldg
OSHKOSH—§Cook & Brown Lime Co. (Limestone)
*Lutz, Robt. (Buildiing & Crushed)
RACINE—*Racine Stone Co. (Crushed, etc.)
Roberts & Co. (Cut Contractors)
*Universal Stone Co. (Crushed, etc.)
*Waukesha Lime & Stone Co. (Building, Rubble & Crushed)
SHEBOYGAN—Scheele, Henry, Jr. (Cut Contractor)
*Sheboygan Lime Works (Lime Stone)
STURGEON BAY—*Cochems, M. V.
*Laurie Stone Co.
SUPERIOR—Penn, Wm. Stone Co. (Cut Contractors)
WAUKESHA—*Central Quarrying Co.
*Waukesha Lime & Stone Co.
WAUWATOSA—*Manegold, A. F. & L.
Zimmerman, J. C. & Son

## 11049— Stone Renovators

American Diamond Blast Co., 30 Church, New
Dye Bros., 100 W 54th, New York
Farnham, Neal (Inc.), 1 Madison av, New York
Finney, C. H. & Sons, 139 W 53rd, New York
Fordham Stone Renovating Co. (Granite, Marble & Brownstone Renovated & Pointed), 1123 B'way, New York
Madison Stone Renovating Co., 1000 Park av, New York
National Stone Renovating Co., 409 W 55th, New York
Paris Stone Renovating Co., 5 Great Jones, New York
Smith, N. & Co., 131 Columbus av, New York
Zaput, Nicholas, 254 W 65th, New York

## Stone Rubbing Beds

(See Rubbing Beds, Stone, Slate, etc.; also Machinery, Stone Polishing)

## 11050—Stone Saw Blades (Steel)

Carnegie Steel Co., Pittsburg, Pa.
Hart Steel Co., Elyria, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
Pittsburg Steel Co., Pittsburg, Pa.
Sharon Steel Hoop Co., Sharon, Pa., & Commercial Nat'l Bank bldg, Chicago, Ill.

## 11051— Stone Screenings

A. & C. Stone & Lime Co., Indianapolis, Ind.
Bessemer Limestone Co., Youngstown, O.
Producers Supply Co., 138 Washington, Chicago, Ill.
Waukesha Lime & Stone Co., 1756 N Central Park av, Chicago, Ill.
Winfield Mineral Co., 421 Wood, Pittsburg, Pa.

## 11052—Stoners (Cherry & Peach)

Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
Goodell Co. (Family), Antrim, N. H.
Mapes, E. B. & Co., South Haven, Mich.
Penn Hardware Co. ("Penn"), Reading, Pa.
Rollman Mfg. Co., Mount Joy, Pa.
Sinclair-Scott Co., Baltimore, Md.
Universal Hardware Works (Inc.) ("M. A. Rollman's New Standard," Cherry Stoners), Mount Joy, Pa.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co. ("Brighton" Cherry Stoner), Wrightsville, Pa.

## 11053— Stones (Emery)

American Emery Wheel Wks., Providence, R. I.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.
Norton Company (Alundum), Worcester, Mass.
Pike Mfg. Co., Pike Station, N. H.
Superior Corundum Wheel Co., Waltham, Mass.
Tanite Co., Stroudsburg, Pa.
Vitrified Wheel Co., Westfield, Mass.

## 11054—Stones (Glass Cutters')

Norton Company, Worcester, Mass.
Pike Mfg. Co., Pike Station, N. H.

## 11055—Stones (Oil & Water)

American Emery Wheel Works, Providence, R. I.
American Hone Co., Olean, N. Y.
Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.
Chicago Wheel & Mfg. Co. ("Gem"), 330 W Monroe, Chicago, Ill.
Deerlick Oil-Stone Co., Chagrin Falls, O.
Dixon, Wm. (Inc.) (Imported), 39 John, New York
Manlius Stone Co., Manlius, N. Y.
Norton Co. ("India"), Worcester, Mass.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.
Pike Mfg. Co., Pike Station, N. H.
Scranton Whetstone Vabrasive Wheel Co. ("Hindostan"), Scranton, Pa.
Star Corundum Wheels Co., Detroit, Mich.
Superior Corundum Wheel Co., Waltham, Mass.
Vitrified Wheel Co., Westfield, Mass.

## 11056—Stones (Scythe)

Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.
Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
Cleveland Stone Co., Hickox bldg, Cleveland, Ohio
Norton Co. ("Norton" Alundum), Worcester, Mass.
Pelkey, W. H., Fair Haven, Vt.
Pike Mfg. Co., Pike Station, N. H.
Superior Corundum Wheel Co., Waltham, Mass.

## 11057— Stones (Tool)

Carborundum Co. (Carborundum & Aloxite), Niagara Falls, N. Y.
Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
Cleveland Stone Co., Hickox bldg, Cleveland, Ohio
**OHIO QUARRIES CO., Citizens' bldg,** Cleveland, O. Quarries & Mills: Amherst, Ohio
Pike Mfg. Co., Pike Station, N. H.

## 11058—Stoneware (Chemical)

Didier-March Co., 30 Church, New York
Dow Chemical Mfg. Co., Mansfield, O.
Graham, Chas. Pottery Works, 986 Metropolitan av, Brooklyn, N. Y.
Remmey, Richard Sons Co., Hedley & Del River, Phila., Pa.
Sittig, J. W. (Imported Porcelain Ware of Every Description for All Purposes), 5 Beekman, New York
United States Stoneware Co. (Receivers, Pipes, Pots, Faucets, Tanks, Retorts), Akron, O.
Weeks, A. J., Akron, O.

## 11059—Stools (Adjustable)

American Seating Co., 215 Wabash av, Chicago, Ill.
Chandler Adjustable Chair & Desk Co., 165 Devonshire, Boston, Mass.

## 11060—Stools (Steel Factory & Office)

Kalamazoo Steel Goods Co., Kalamazoo, Mich.
Manufacturing Equipment & Engineering Co., South Framingham, Mass.
Ohio Mfg. Co., Painesville, O.
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

## 11061— Stools (Store)

Andrews, A. H. Co. (Metal), 174 Wabash av, Chicago, Ill.
Bryan Novelty Mfg. Co. (Revolving & Folding Counter), Bryan, O.
Van Doorn Co. (Revolving Tops), Quincy, Ill.

## 11062—Stoppers (Bath & Basin)

(See also Stopples, Rubber)

Climax Specialty Co., Ann Arbor, Mich.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Morgan & Wright (Inc.) (Rubber), Detroit, Mich.
Quaker City Rubber Co. (Rubber), 629 Market, Phila., Pa.
Schacht Rubber Mfg. Co. ("Daisy" Rubber), Huntington, Ind.
Wolverine Brass Works, Grand Rapids, Mich.

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## 11063—Stoppers (Bottle)

Alston, J. S. Mfg. Co., Pleasantville, N. J.
Baird Machine Co., Oakville, Conn.
Bernardin Bottle Cap Co. ("Cyclone"), Evansville, Ind.
Crown Cork and Seal Co., Baltimore, Md.
Hutter, Karl ("Hutter" Porcelain), 241 Lafayette, New York
Koscherak, I. (Porcelain), 239 Canal, New York
Metal Finishing Co., Union City, Conn.
Perfection Bottle Stopper Co. ("Perfection"), 260 Clark, Chicago, Ill.
Taplin Mfg. Co. ("Victor"), New Britain, Conn.

## 11064—Stoppers (Flue)

Clark, J. L. Mfg. Co. ("Gem"), Rockford, Ill.
Roseland Can & Specialty Co. ("Royal," "Rockford," "Regal"), Rockford, Ill.
Stuber & Huck ("Stay-In"), Peoria, Ill.

## 11065—Stoppers (Gas Main)

Behringer, Edw. A. ("Perfect"), 104 Reade, New York
Safety Gas Main Stopper Co. ("Goodman"), 257 E 133d, New York

## 11066—Stoppers (Plumbago)

Bartley, Jonathan Crucible Co., Trenton, N. J.
McCullough-Delzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburg, Pa.
Ross-Tacony Crucible Co. (For Steel Works), Tacony, Phila., Pa.
Stevens, Frederic B. ("Stevens"), Detroit, Mich.

## 11067—Stoppers & Nozzles (Ladle)

Seidel, R. B. (Inc.) (For Open Hearth & Bessemer Ladles), 1334 Callowhill, Phila., Pa.

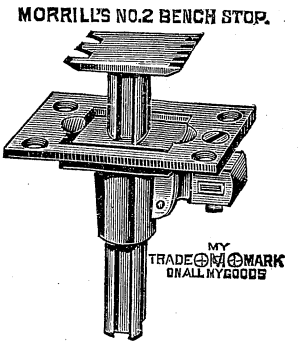
## 11068—Stopples (Rubber)

Cleveland Rubber Co., Cleveland, O.
Continental Rubber Works, Erie, Pa.
Davol Rubber Co., Providence, R. I.
Erie Rubber Works, Erie, Pa.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Hodgman Rubber Co., 806 B'way, New York
Manhattan Rubber Mfg. Co., 18 Vesey, New York
Mercer Rubber Co., Trenton, N. J.
Modern Rubber Mfg. Co., Trenton, N. J.
National India Rubber Co., Bristol, R. I.
N. Y. Belting & Packing Co., 91 Chambers, New York
**NEW YORK RUBBER CO., Reade** & Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co. (Acid Corks, etc.), Boston, Mass.
Rubber Stopple Co., Long Island City, Boro. of Queens, New York
Tyer Rubber Co., Andover, Mass.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

## 11069— Stops (Bench)

Bonney Vise & Tool Works (Inc.), Allentown, Pa.
Cincinnati Tool Co. ("Hargrave"), Norwood, Cincinnati, O.
**MORRILL, CHAS. ("Morrill"), 227** B'way, New York. (See adv. index, end of book)




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**CHAS. MORRILL. 277 Broadway. N. Y.**

Sheldon, E. H. & Co. ("Sheldon's" Quick Set), 312 N May, Chicago, Ill.
Smith, Seymour & Son, Oakville, Conn.
Stearns, E. C. Co., Syracuse, N. Y.
Stover Mfg. Co., Freeport, Ill.
Vaughn & Bushnell Mfg. Co. ("V. & B." German Pattern), 2130 Carroll av, Chicago, Ill.

## 11070— Stops (Bit)

Millers Falls Co. (Anti-Friction Ball Bearing), 28 Warren, New York

## 11071—Stops (Crane Limit)

**ELECTRIC CONTROLLER & MFG.** Co., Cleveland, O. (See adv. index & branch offices, end of book)

## 11072—Stops (Curb & Waste)

**UNION WATER METER CO., Worcester, Mass.** (See adv. index, end of book)

## 11073— Stops (Flue)

Andrews Wire & Iron Works ("Higgins," "Androck"), Rockford, Ill.
Berger Bros. Co., 231 Arch, Phila., Pa.
Clark, J. L. Mfg. Co. ("Gem"), Rockford, Ill.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Gluck, Wm. J. H., Baltimore, Md.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hall & Carpenter Co., 518 Race, Phila., Pa.
Haslet, Flanagan & Co., 116 N 2d, Phila., Pa.
Lasher Mfg. Co., Davenport, Ia.
Lawson, F. H. Co., Cincinnati, O.
Phillips & Buttoroff Mfg. Co., Nashville, Tenn.
Rau Perfect Flue Stop Co., Louisville, Ky.
Roseland Can & Specialty Co., Rockford, Ill.
Schrayer's, M. Sons & Co., 917 W 18th, Chicago, Ill.
Stuber & Kuck, Peoria, Ill.
Wagner Mfg. Co., Cedar Falls, Ia.
Weber-Kirch Mfg. Co., Keokuk, Ia.

## 11074— Stops (Governor)

Warner Instrument Co. ("Barclay" for Corliss Engines), Beloit, Wis.

## 11075—Stops & Wastes (Compression)

**American Foundry & Mfg. Co., St. Louis, Mo.**
Central Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
**McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)**
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mueller, H. Mfg. Co., Decatur, Ill.
Peck Bros. Mfg. Co. ("Universal"), New Haven, Conn.
Stebbins, E. Mfg. Co., Springfield, Mass.
Walworth Mfg. Co., Boston, Mass.
Waukegan Brass Mfg. Co., Waukegan, Ill., & 150 Michigan av, Chicago, Ill.

## 11076—Store Front Construction

Bartelstone Bros. (All Glass), 4179 3rd av, New York
Brandenberger & Co., Baltimore, Md.
Coulson, J. W. & Co., Columbus, O.
Detroit Show Case Co., Detroit, Mich.
Hoover, Wm. H. ("Hoover's"), Elizabeth, N. J.
Kawneer Mfg. Co. ("Kawneer"), Niles, Mich.
Love Bros. (Inc.) (All Iron Store Front Framing), Aurora, Ill.
Murnane Combination Clamp Co. ("Murnane"), St. Louis, Mo.
National Store Front Co., 208 First av., Pittsburg, Pa.
Perfection Metal Bar Co. (Solid Metal & Metal Covered Wood), 3321 Lorain av, Cleveland, O.
Phillips, John & Co., Detroit, Mich.
Thorne Holdfast Metal Bar Co., Troy, N. Y.
**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)
Voltz Mfg. Co. ("Universal"), St. Joseph, Mo.

## 11077—Store Fronts (Brass & Bronze)

Brandenberger & Co., Baltimore, Md.
**BROWN BROS. MFG. CO. (Also Iron),** 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
**FLOUR CITY ORNAMENTAL IRON** Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
**GORHAM CO. ARCH'L BRONZE,** 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 300 W Ontario, Chicago, Ill.
National Store Front Co., 208 1st av, Pittsburg, Pa.
**SMITH, F. P. WIRE & IRON WKS.,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 11078—Store Fronts (Cast Iron)

(See Firms in Iron, Architectural & Ornamental, marked with a (*) Star)

## 11079—Store Fronts (Galvanized Iron)

Berghofer-Mitchell Co., Quincy, Ill.
**CANTON MFG. CO Canton, O.** (See adv. index, end of book)
Chattanooga Steel Roofing Co., Chattanooga, Tenn.
**DROUVE, G. CO., 40 Tulip, Bridgeport, Conn.** (See adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
Foster, Wm. & Son Co. (Inc.), Springfield, Ill.
Freund, Jacob Roofing Co., Cincinnati, O.
Gara, McGinley & Co., 23 S 17th, Phila., Pa.
Mesker, Geo. L. & Co., Evansville, Ind.
Mesker & Bro., 421 S 6th, St. Louis, Mo.
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
**NATIONAL SHEET METAL ROOFING** Co., 339 Grand, Jersey City, N. J. (See adv. index, end of book)
Newburgh Cornice Works, Newburgh, N. Y.
Penn. Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.

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**ST. PAUL ROOFING, CORNICE & Ornament Co.** (Also Copper), St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Siddons, John Co., Rochester, N. Y.
Souther, E. E. Iron Co., St. Louis, Mo.
Watson, Jas. H. Co. (Inc.), Bradley, Ill.
Wilmington Cornice Works, Wilmington, Del.
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 11080—Store Fronts & Show Windows (Glass)

Crane Glass & Mfg. Co. (All Glass), Cleveland, Ohio

## 11081—Store & Bar Fixtures

Abbott Mfg. Co., St. Paul, Minn.
Architectural Woodworking Co. (High Grade Store Fixtures), 3019 Chestnut, Phila., Pa.
Bentell, H. M. (For Bank, Drug & Jewelry Store, etc.), Atlanta, Ga.
Bloom, Alfred Co., 1502 California, Omaha, Neb.
Buffington, I. T., Elizabethville, Pa.
Burge-Huck Mfg. Co., Quincy, Ill.
Bush, Jas. S. (Office & Store), 239 B'way, New York
Butke Mfg. Co., Portland, Ore.
Capitol City Furniture Co. (Bank, Store, Bar, Church, etc.), 639 Jackson, St. Paul, Minn.
Chicago Store & Office Fixture Co., 703 S Clinton, Chicago, Ill.
Cleveland Store Fixture Co., 4059 St. Clair av., N. E., Cleveland, O.
Curtis & Yale Co. (Wholesale Mfrs. of Bar, Hotel, Bank, Store & Office Fixtures), Wausau, Wis.
Dean, C. P., 10 Governor, Richmond, Va.
Detroit Show Case Co., Detroit, Mich.
Fischer Bros., 150 Bank, New York
Ganter, F. H., Baltimore, Md.
Glaser, Rohrer & Co., 725 1st av, New York
Gray Mfg. Co., Muskegon, Mich.
Great Western Cabinet Works, 2025 Harrison, Kansas City, Mo.
Herdman Sash, Door & Lumber Co., Zanesville, Ohio
Kleeman, Wm. & Co., 311 W 59th, New York
Kloak Bros. & Co., c Pearl & Elm, Cincinnati, Ohio
Kurtz Bros., South Bethlehem, Pa.
Loeper, Anton, Ashland, Pa.
Maclean, J. S., 161 W Spring, Columbus, O.
Mansfield, R. & Son, 313 E Main, Louisville, Ky.
Mason City Mfg. Co., Mason City, Ia.
Nalle & Co., Austin, Tex.
National Office Furniture & Supply Co., 921 F, N W, Washington, D. C.
Nauman Co. (Bank, Drug & Store), Waterloo, Ia.
New York Store Fixture Co., 148 Bank, New York
Norwich Nickel & Brass Co., Norwich, Conn.
Paulson, Jno. P. Mfg. Co., Denver, Colo.
Phillips, John & Co., Detroit, Mich.
Phoenix Furniture Co., Eau Claire, Wis.
Quincy Show Case Works (Bank, Office, Drug Store, Jewelry, etc.), Quincy, Ill.
Reeber's, J. Sons, 409 E 107th, New York
Revell, Alex. H. & Co., c Wabash av & Adams, Chicago, Ill.
Rieser, Ely J. & Co. (Drug, Saloon, Cigar, etc.), 1st av & 28th, New York
Roach & Musser Sash & Door Co., Muscatine, Iowa
Rock Island Stair Works, Rock Island, Ill.
Russell, A. N. & Sons Co., Ilion, N. Y.
St. Louis Bank Fixture Co., 807 Walnut, St. Louis, Mo.
Sayre-Newton Lumber Co., Denver, Colo.
Segale Mfg. Co., 68 E Spring, Columbus, O.
Segelke & Kohlhaus Mfg. Co., La Crosse, Wis.
Sieburg, Chas., 31 W 32nd, New York
Simmons, W. H. Wood Working Co., Williamsport, Pa.
Sorensen, O. J., La Crosse, Wis.
Staudte & Reuckoldt Mfg. Co., Soulard c De Kalb, St. Louis, Mo.
**STEARNS, A. T. LUMBER CO.,** Neponset, Boston, Mass. (See adv. index, end of book)
Stevens, Benj. A. Co. (Butchers' & Store Fixtures, Toledo, O.
Struck, Alfred Co., Louisville, Ky.
Viking Refrigerator & Mfg. Co. (Store), Kansas City, Mo.
Winter, M. Lumber Co. (Drug, Jewelry, etc.), Sheboygan, Wis.
Wollaeger Mfg. Co., 636 N Water, Milwaukee, Wis.
Worn, William & Co., 69 George, Brooklyn, N.Y.

## 11082—Storm Doors & Windows

Bardwell-Robinson Co., Minneapolis, Minn.
Carr & Adams Co., Des Moines, Ia.
City Sash & Door Co. (Wholesale Mfrs.), Minneapolis, Minn.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Gordon, Van Tine & Co., Davenport, Ia.
McCulloch, Kuhn, Atkinson Co. (Wholesale Mfrs.), Minneapolis, Minn.
Osgood, Blodgett Mfg. Co., St. Paul, Minn.
Phenix Mfg. Co. ("Phenix"), Humboldt av c Center, Milwaukee, Wis.

## 11083— Stove Boards

Belding-Hall Co., Belding, Mich.
Keystone Stove Board Co., 128 N 2d, Phila., Pa.
Oil City Asbestos Co. (Asbestos), Oil City, Pa.
Sweeney, W. H. Mfg. Co. (Embossed White
Wabash Screen Door Co., 115 Adams, Chicago, Ill.

## 11084— Stove Linings

Baltimore Terra Cotta Works, Baltimore, Md.
Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
Carey, Philip Mfg. Co., Lockland, O.
Columbia Fire Brick Co., Canton, O.
Dighton Stove Lining Co., Dighton, Mass.
Evens & Howard Fire Brick Co., St. Louis, Mo.
Fox, E. S. & Co., Reading, Pa.
Garfield Fire Clay Co., Robinson, Pa.
Hall & Sons, Buffalo, N. Y.
Louisville Fire Brick Works, Louisville, Ill.
McHenry, James 2310 Wash'n av, Phila., Pa.
McLeod & Henry Co., Troy, N. Y.
Newton Fire Brick Co., Albany, N. Y.
Peekskill Fire Brick Works, Peekskill, N. Y.
Presbrey Stove Lining Co., Taunton, Mass.
Rogers & Co., Royersford, Pa.
**RUTLAND FIRE CLAY CO. (Plastic),** Rutland, Vt. (See adv. index & branch offices, end of book)
Standard Stove Lining Co., Taunton, Mass.
Sweeney, Geo. & Co., 1334 Ridge av, Phila., Pa.
Taunton Stove Lining Co., Taunton, Mass.
Union Stove Lining Co., Taunton, Mass.
Williams Stove Lining Co., Taunton, Mass.

## 11085—Stove Linings (Asbestos)

**JOHNS, H. W.-MANVILLE CO. ("J-M" & "Phoenix"),** 100 William, New York. (See adv. index & branch offices, end of book)

## 11085a—Stove Linings (Brick)

**RUTLAND FIRE CLAY CO., Rutland,** Vt.—(See adv. index & branch offices, end of book)

## 11086— Stove Mfrs.

### ALABAMA.

AVONDALE—Avondale Stove & Fdy. Co.
Pan-American Mfg. Co.
FLORENCE—Cohen Stove & Range Co.
Thoele-Phillips Mfg. Co.
FORT PAYNE—Fort Payne Stove & Foundry Co.
GADSDEN—A. & J. Mfg. Co.
SHEFFIELD—King Stove & Range Co.
Lowman, Lizzie Stove Co.
Sheffield Steel Range & Stove Co.

### CALIFORNIA.

SAN FRANCISCO—Graham, Jas. Mfg. Co., 27 Minna
Steiger & Kerr Stove & Foundry Co. (Stoves, Ranges, etc.)

### CONNECTICUT.

STAMFORD—Stamford Fdy. Co. (Parlor, Store, Factory & Laundry)
Stamford Gas Stove Co. (Stoves, Ranges & Furnaces, etc.)

### GEORGIA.

ATLANTA—Atlanta Stove Works
DALTON—Mascot Stove Mfg. Co.
ROME—Bowie Stove Co.
Hanks Foundry Co.
Southern Co-Operative Foundry Co.

### ILLINOIS.

AURORA—Rathbone, Sard & Co. (Stoves, Ranges, Stationary & Portable)
BELLEVILLE—Baker Stove Works
Belleville Stove & Range Co.
Eagle Foundry Co.
Ideal Stove & Range Works
Orbon Stove & Range Co.
Quality Stove & Range Co.
BLOOMINGTON—Co-Operative Stove Co.
CHICAGO—American Stove Co. (Geo. M. Clark & Co. Division), 82 Michigan av
Carmichael Range Co., 34 W Kinzie
Chicago Stove Works, Blue Island av & 22d
Chicago Stove & Range Co., 2920 S Park av
Cole Mfg. Co. ("Cole's" Hot Blast Stoves & Ranges), 3218 S Western av boul
Criben & Sexton Co., 800 N Sacramento
Crown Stove Works, 4631 W 13th boul
Detroit Stove Works (of Detroit, Mich.), 2921 Lasalle
Home Stove Works, W 18th pl c S Rockwell
CHICAGO HEIGHTS—Bonnett-Nance Stove Co. (Stoves, Iron & Steel Ranges. Base Burners & Wood & Coal Heaters, etc.)
FULTON—Mississippi Valley Stove Works
JOLIET—Moore Bros. Co.
MATTOON—Mattoon Stove & Range Works
NEW ATHENS—Auto Stove Works
PEORIA—Culter & Proctor Stove Co.
QUINCY—Channon-Emery Stove Co.
Comstock-Castle Stove Co.
Excelsior Stove & Mfg. Co. (Stoves & Ranges)
Gem City Stove Mfg. Co. (Ranges, Heaters & Furnaces)
Lahan Stove & Mfg. Co.
Orinda Stove & Mfg. Co.
Quincy Fdy. & Novelty Co.
Quincy Stove Mfg. Co.
Reid Stove Works
Sheridan Stove Mfg. Co.
White, Thos. Stove Co.
ROCK ISLAND—Rock Island Stove Co. ("Riverside")
ST. CHARLES—Faultless Stove Works (Malleable Iron)

### INDIANA.

ANDERSON—Central Stove & Foundry Co.
Frazier Stove Co.
EVANSVILLE—Advance Stove Co.
Crescent Stove Wks. (Stoves, Ranges, etc.)
Evansville Stove Works (Stoves & Hollow Ware)
Indiana Stove Works
Southern Stove Works (Stoves & Ranges)
INDIANAPOLIS—Home Stove Co.
Indianapolis Stove Co., Roosevelt & Columbia avs
KOKOMO—Globe Stove & Range Co. (Steel Ranges)
MADISON—Madison Stove Co. (Stoves &
MARION—Hoosier Stove Co. Ranges)
Marion Stove Co.
NEW ALBANY—Anchor Stove & Range Co.
Gohmann Bros. & Kahler Co.
SOUTH BEND—Malleable Steel Range Mfg. Co.

### IOWA.

KEOKUK—American Stove & Range Co.
MARSHALLTOWN—Lenox Furnace Co. ("Oak" Heaters & Steel Ranges)
WATERLOO—Iowa Stove & Range Co.

### KANSAS.

LEAVENWORTH—Great Western Stove Co.

### KENTUCKY.

COVINGTON—Insurance Stove, Range Foundry Co.
Star Foundry Co.
LOUISVILLE—Bridgeford & Co., 1953 Portland
Fischer-Leaf Co. (Stoves & Ranges)
Graf-Webb Iron Mfg. Co., 1600 Magazine
Kentucky Stove Co., 1401 Delaware
O. K. Stove & Range Co. (Stoves, Ranges, etc.), 238 W Main
Stratton & Terstegge Co. (Inc.), 728 W Main

### MAINE.

BANGOR—Noyes & Nutter Mfg. Co.
Wood & Bishop Co.
PORTLAND—Portland Stove Fdy. Co. (Stoves, Ranges, etc.)

### MARYLAND.

BALTIMORE—Armstrong Stove & Mfg Co., 207 S Charles
Bibb, B. C. Stove Co., 109 Light
Heath, Chas. C. & Co., 14 N Howard
Sexton S. B. Stove & Mfg Co., 7 S Gay
Sheppard, Isaac A. & Co. (Furnaces, Stoves & Ranges), 109 Commerce
Weiskittle, A. & Son, c Wash. & Alice-anna
PERRYVILLE—Armstrong Stove & Mfg. Co.

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## MASSACHUSETTS.

BOSTON—Chilson Furnace Co. (Furnaces, Ranges & Stoves), 88 Wash'n
Highland Fdy. Co., 1341 Columbus av
Magee Furnace Co., 36 Union
Smith & Anthony Co., 48 Union
Walker & Pratt Mfg. Co. (Furnaces, Ranges & Stoves), 31 Union
NORTH DIGHTON—North Dighton Co-operative Stove Co.
OTTER RIVER—Lord Stone & Co.
PLYMOUTH—Plymouth Fdy.
SOMERSET—Somerset Stove Foundry Co.
TAUNTON—Dighton Foundry Co. (Stoves, Leonard & Baker Stove Co. Ranges, etc.)
Thomas, Oscar G.
Weir Stove Co.
White-Warner Co.

## MICHIGAN.

BATTLE CREEK—A. B. Stove Co.
DETROIT—Art Stove Co., 1545 Russell
Detroit Stove Wks. (Cooking & Heating for Gas, Wood & Coal), 1320 Jeff'n av
Michigan Stove Co. (Stoves, Ranges & Furnaces), 1022 Jeff av
Peninsular Stove Co., 10th & W Fort
DOWAGIAC—Beckwith, P. D. (Inc.) ("Round Oak" Heating Stoves & Furnaces)
KALAMAZOO—Kalamazoo Stove Co.
LANSING BEMENT CO. (Stoves & Ranges)
LAPEER—Bostick Stove Co.
OWOSSO—Independent Stove Co. ("Renown" Smoke & Gas Burners)

## MINNESOTA.

SHAKOPEE— Minnesota Stove Co.

## MISSOURI.

HANNIBAL—Duffy-Trowbridge Stove Mfg. Co.
KANSAS CITY—Security Stove & Mfg. Co. ("Security")
ST. LOUIS—American Stove Co. (Ringen Division), 414 N 6th
Bridge & Beach Mfg. Co., 501 S Main
Buck's Stove & Range Co., 3500 N 2d
Charter Oak Stove & Range Co., 1440 N Main
Hemp & Co.
Majestic Mfg. Co., 2016 Morgan
Quick Meal Stove Co.
Wrought Iron Range Co.

## NEW HAMPSHIRE.

CONCORD—Ford Foundry Co.

## NEW JERSEY.

BURLINGTON—Stuart & Peterson Co.
DOVER—Richardson & Boynton Stove Co.
NEWARK—Thatcher Furnace Co. (Stoves & Ranges, Portable & Stationary)
SOMERVILLE—Somerville Stove Works

## NEW YORK.

ALBANY—Littlefield Stove Co., No. Pearl & Rathbone, Sard & Co. Pleasant
AMENIA—Fry, B. H.
BUFFALO—Buffalo Co-Operative Stove Co.
Jewett & Co.
CORNING—Corning Mfg. Co.
FRIENDSHIP—Drake Hdw. Co.
GENEVA—Phillips & Clark Stove Co.
Summit Fdy. Co.
MANLIUS—Cheney, S. & Son
NEW YORK—Abendroth Bros., 109 Beekman
American Stove Co., 356 Fourth av (Branch of St. Louis, Mo., Office)
Boynton Furnace Co., 106 W 37th
Graff Furnace Co., 208 Water
Mott Iron Works, 118 Fifth av
Munsell, Eugene & Co., 68 Church
Southard-Robertson Co. (Stoves & Ranges of All Kinds), 257 Water
Thatcher Furnace Co. (Stoves & Ranges, Portable & Stationary), 110 Beekman
PEEKSKILL—Crane, Wm. M. & Co.
New York Stove Works
Southard, Robertson & Co.
Union Stove Works (Furnaces, Ranges, Heaters, etc.)
PHELPS—Zenith Foundry Co. (Stoves, Ranges, etc.)
PORT JERVIS—Swinton & Co.
ROCHESTER—Co-operative Fdy. Co. ("Red Cross Victor")
Galusha Stove Co. ("Norman")
Sill Stove Works
SYRACUSE—Syracuse Stove Works ("Kernan-Welcome," Stoves, Ranges & Furnaces)
TROY—Burdett-Smith & Co.
Fuller & Warren Co.
Gold Coin Stove Co.
UTICA—Giblin & Co. (Stoves & Ranges)
WEST TROY—West Side Foundry Co.

## NORTH CAROLINA.

GREENSBORO—Glascock, Stove & Mfg. Co. (Cooking & Heating Stoves)

## OHIO.

AKRON—Taplin-Rice-Clerkin Co. (Climax Stoves & Ranges)
BELLAIRE—Bellaire Stove Co.
CINCINNATI — Huenefeld, E. H. Co. (Inc.) (Also Ranges, "Boss," "Uneeda," "Success" & "Selma")
Klaine, F. A. Co., Front & Central av
Knecht, Victor Co. ("Jumbo"), 819 Wade
Miller, Wm. Range & Fur. Co., 125 E 5th
Monitor Stove & Range Co. ("Monitor" Radiator Heating Stoves)
CLEVELAND—American Range & Fdry. Co.
Cleveland Co-Operative Stove Co., 1230 Central av
COLUMBUS—Emrich, C.
Hertenstein, M. & Co.
Lattimer Stove Co. ("L. W." Stoves & Ranges), Columbus, O.
DAYTON—Gem City Stove Co.
DELAWARE—Sunray Stove Co.
ELYRIA—Fox Furnace Co. (Furnaces, Ranges & Stoves)
FREMONT—Fremont Stove Co.
GALLIPOLIS—Thompson & Francis Stove Co.
Treasure Stove Co.
HAMILTON—Estate Stove Co. (Coal, Wood & Gas Stoves, Ranges & Furnaces)
HILLSBORO—Bell, C. S. Co. (Heavy Heating
IRONTON—Foster Stove Co. & Caboose)
MANSFIELD—Baxter Stove Co.
Eclipse Stove Co. (Stoves & Ranges)
MARIETTA—Marietta Mfg. Co.
Nye, A. T. & Son Co.
MARTINS FERRY—Spence-Baggs Stove Co.
MASSILLON—Hess, Snyder Co. (Heating & Cooking, Boomer)
NEWARK—Wehrle Co. (Stoves & Ranges)
PIQUA—Favorite Stove & Range Co.
PORTSMOUTH—Ohio Stove Co.
Portsmouth Stove & Range Co.
SALEM—Victor Stove Co.
Woodruff, J. & Sons (Stoves & Ranges)
SPRINGFIELD—Mentels, Theo., Progress Furnace & Stove Co.
TIFFIN—Hermeyer Stove Co.
TOLEDO—Toledo Stove & Range Co. ("Gem" Stoves & Ranges)
ZANESVILLE—Jones, Chas. H.

## OREGON.

PORTLAND—Airtight Stove Co., 312 1st
SALEM—Loewenberg & Going Co.

## PENNSYLVANIA.

ALLEGHENY—Pittsburg Stove & Range Co., Robinson c Darragh
BEAVER FALLS—Howard Stove Co.
BRISTOL—Harkins, T. B. Foundry Co. (Stoves, Ranges & Furnaces)
COLUMBIA—Keeley Stove Co. ("Columbian" Stoves, Ranges & Furnaces)
CONSHOHOCKEN—Messinger's, H. C. Sons
DANVILLE—Danville Stove & Mfg. Co.
ERIE—Eriez Stove & Mfg. Co., Erie, Pa.
Germer Stove Co.
LEBANON—Lebanon Stove Co.
LEHIGHTON—Lehigh Stove Mfg. Co.
MIDDLETOWN—Raymond Mfg. Co.
PHILADELPHIA—Cox, Abram Stove Co., American c Dauphin
Diller, Caskey & Keen (Stoves, Heaters & Ranges), 6th cor Berks
Liberty Stove Co., 114 N 2d
Phila. Stove & Iron Foundry Co. (Furnaces, Stoves & Ranges), 1631 N 5th
Sheppard, Isaac A. & Co. (Furnaces, Stoves & Ranges), 1801 N 4th
Thomas, Roberts, Stevenson & Co., 3rd & McKean
PITTSBURG—Stove & Range Co. of Pittsburg (Stoves & Ranges)
PITTSTON—Pittston Stove Co. (Stoves, Ranges, etc., "Pittston" & "Happy Thought")
POTTSTOWN—March-Brownback Stove Co. ("Globe" Ranges, etc.)
QUAKERTOWN—Roberts, Winner & Co. (Stoves, Ranges & Furnaces)
READING—Mt. Penn Stove Works
O'Reilly & Blatt (Stoves & Heaters)
Reading Stove Works ("Sunshine" Stoves, Ranges & Heaters)
ROCHESTER—Olive Stove Works
ROYERSFORD—Buckwalter Stove Co. (Stoves,
Floyd-Wells Co. Ranges, Furnaces, etc.)
Grander Stove Co. (Stoves, Portable & Brick Set Ranges, Heaters & Furnaces)
SCRANTON—Scranton Stove W'ks
SINKING SPRINGS—Sinking Springs Foundry Co.
SPRING CITY — Keystone Stove Foundry (Ranges, Heaters, etc.)
YORK—Steacy-Schmidt Mfg. Co., Inc. (Heating Cook House, Heating from Kitchen Fire)

## RHODE ISLAND.

PROVIDENCE—Barstow Stove Co.

## TENNESSEE.

CHATTANOOGA—Gibson-White Co.
Mountain City Stove & Mfg. Co.
Price-Evans Foundry Co. ("Coal King")
Vesta Gas Range & Mfg. Co.
CLEVELAND—Hardwick Stove Co.
KNOXVILLE—Fair Foundry Co.
MEMPHIS—Wetter H. Mfg. Co. (Stoves, Ranges, etc.); Works: So. Pittsburg, Tenn.
White, Wm. & Son, 645 Dunlay av
NASHVILLE—Allen Mfg. Co.
Phillips & Buttorff Mfg. Co.
SOUTH PITTSBURG—Lodge Mfg. Co.
Wetter, H. Mfg. Co.

## VIRGINIA.

NORFOLK—Columbia Stove Co.
RICHMOND—Cameron Stove Co.
Continental Stove Co.
Richmond Pattern & Structural Iron Wks.
Richmond Stove Co. (Stoves & Ranges)
Southern Stove Works.
WAYNESBORO—Loth, W. J. Stove, Co.
WASHINGTON—Washington Stove Works

## WEST VIRGINIA.

HUNTINGDON—Huntingdon Stove & Foundry Co.
WHEELING—Wheeling Stove & Range Co.

## WISCONSIN.

BEAVER DAM — Malleable Iron Range Co. (Ranges)
MILWAUKEE — Brand Stove Co. (Stoves, Ranges, etc.)
Fuller-Warren Co. (Ranges, Stoves, etc.)
Lindemann, J. P. & Sons, 5000 State
Milwaukee Stove & Heater Co., 100 W Water
NEENAH—Bergstrom Stove Co.

## 11087—Stove Pipe & Elbow Mfrs.

Chattanooga Roofing & Fdry. Co., Chattanooga, Tenn.
Cleveland Elbow Co., Cleveland, O.
Dieckmann, Ferdinand Co., Cincinnati, O.
Dover Stamping & Mfg. Co., Cambridge, Mass.
EDWARDS MFG. CO. (Nested), 545-505 Eggleston av, Cincinnati, O. (See adv. index & branch offices. end of book)
Excelsior Steel Furnace Co., 517 W Monroe, Chicago, Ill.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Grinberg Bros., 154 South, New York
Hemp & Co., St. Louis, Mo.
Indianapolis Corrugating Co., Indianapolis, Ind.
Jackes-Evans Mfg. Co., St. Louis, Mo.
Niles Iron & Steel Roofing Co., Niles, O.
Ohio Stove Pipe & Mfg. Co. ("Smith's" Double Lock Nested), New Phila., Ohio
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
Republic Metalware Co., Buffalo, N. Y.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sheet Metal Mfg. Co., Niles, O.
Troy Stamping Works, Troy, N. Y.
Wheeling Corrugating Co., Wheeling, W. Va.
Winfield Mfg. Co., Warren, O.
Woods-Evertz Stove Co., Springfield, Mo.

## 11088— Stove Polish

A. B. Polish Co. ("A. B."), 1515 Haddon av, Chicago, Ill.
Black Cat Polish Co., Buffalo, N. Y.
Black Silk Stove Polish Works ("Black Silk"), Sterling Ill.
Cambria Paint & Color Co. (Ltd.) ("Sherman's Liquid"), Johnstown, Pa.

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Clark, Geo. M. & Co. ("Jewell"), 82 Michigan av, Chicago, Ill.
Crosby Mfg. Co. ("6-5-4 Black Lustia"), Detroit, Mich.
Cullen, F. C. & Co. ("Aluminine"), 164 Dearborn, Chicago, Ill.
Detroit Stove Polish Co. ("Ebony"), Detroit, Mich.
**DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite of Iron), Jersey City, N. J.** (See adv. index & branch offices, end of book)
Hayden, Griffin & Co. ("Stovink"), Toledo, O.
Martin & Martin ("E-Z"), 3005 Carroll av, Chicago, Ill.
Michigan Stove Co. ("Garland", Paste, etc.), Detroit, Mich., & Chicago, Ill.
Morse Bros. ("Rising Sun"), Canton, Mass.
Nickel Plate Stove Polish Co. ("Black Kid"), 362 E Illinois, Chicago, Ill.
Parlor Pride Mfg. Co. ("Parlor Pride"), N Andover, Mass.
Prescott, J. L. & Co. ("Enameline"), 92 W B'way, New York
Rath Mfg. Co. ("Imperial"), Hedley & Richmond, Phila., Pa.
**RUTLAND FIRE CLAY CO., Rutland, Vt.** (See adv. index & branch offices, end of book)
Satin Gloss Polish Co., Portland, Me.
Sterling Stove Polish Co., Sterling, Ill.
Stinson, B. F. Co., Buffalo, N. Y.
Tarbox Mfg. Co. ("Tarbox" Stove Gloss), New London, Conn.
United States Graphite Co., Saginaw, Mich.
White Hand Stove Polish Co., Battle Creek, Mich.
X-Ray Stove Polish Co. ("X-Ray"), 78 Hudson, New York

## 11088a—Stove Polishing (Electric Driven)

**COATES CLIPPER MFG. CO., Worcester, Mass.** (See adv. index, end of book)

## 11089—Stove Trimmings

American Tube & Stamping Co. (Nickel-Plated Steel Stove Edge), Bridgeport, Conn.
Burdick & Son (Specialties), Albany, N. Y.
Consolidated Casting Co., Mechanicsville, N. Y.
Fanner Mfg. Co., Cleveland, O.
Gaitley, Jno. E. Troy Nickel Works ("Alaska"), Albany, N. Y.
Ireland & Matthews Mfg. Co. (In All Metals), Detroit, Mich.
Matthews, H. A. Mfg. Co., Seymour, Conn.
Matthews Mfg. Co. (Knobs, Hinges, Pins, etc.), Worcester, Mass.
N. Y. Nickel Plating & Mfg. Co., 327 E 63d, New York
Price-Evans Foundry Co., Chattanooga, Tenn.
Scovill Mfg. Co., Waterbury, Conn.
Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Alaska"), Albany, N. Y.
Stover Mfg. Co. (Handles, Knobs, Hinge Pins, etc.), Freeport, Ill.
**WORCESTER PRESSED STEEL CO.** (Brass & Steel Knobs, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

## 11090—Stoves (Acetylene)

Davis Acetylene Co. (Also Ranges & Heaters), Elkhart, Ind.
Harris, J. Co. (Also Ranges), Cleveland, O.
Wallace Mfg. Co. (Heating & Cooking), Olmsted Falls, O.

## 11091—Stoves (Alcohol)

Alcohol Utilities Co. ("Pyro"), 40 E. 21st, New York
Buffalo Mfg. Co. (Burning Denatured Alcohol), Buffalo, N. Y.
Cassady-Fairbank Mfg. Co. ("Rambler" Small Portable), 6106 La Salle, Chicago, Ill.
Houchin, Thos. W. Co. ("Sunburst"), 318 B'way, New York
Howler Mfg. Co. (Denatured), Cleveland, O.
Quincy Foundry & Novelty Co. ("Noxall" Denatured), Quincy, Ill.
Reid & Sons Mfg. Co. ("Gem", "Clayton"), 527 Smith, Brooklyn, N. Y.
Sweeney, W. H. Mfg. Co. ("Meteor"), 30 Main, Brooklyn, N. Y.
Virden Mfg. Co., Cleveland, Ohio

## 11092—Stoves (Alcohol Vapor)

Landers, Frary & Clark ("Universal"), New Britain, Conn.

## 11093—Stoves (Bakers' Gas)

Hoerlein, F. G. ("Hoerlein"), 806 Myrtle av, Brooklyn, N. Y.

## 11094—Stoves (Brass Founders' Drying)

Barnett, Oscar Foundry Co. (Round & Square), Newark, N. J.

## 11095—Stoves (Caboose)

Bell, C. S. Co. (Also Heavy Heating), Hillsboro, O.
Buda Co. ("Volcano," "Lewis"), Railway Exchange bldg, Chicago, Ill.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Sexton, S. B. Stove & Mfg. Co., Baltimore, Md.
Stove & Range Co. of Pittsburg, Pittsburg, Pa.

## 11096— Stoves (Camp)

Quad Stove Mfg. Co. ("Quad"), Columbus, O.

## 11097— Stoves (Car)

Buda Co. ("Volcano," "Lewis," "Giant," Car-Way Caboose & Station), Railway Exchange bldg, Chicago, Ill.
Germer Stove Co. ("Radiant," Car Furnace), Erie, Pa.
McGuire-Cummings Mfg. Co., 400 N Sangamon, Chicago, Ill.
Michigan Stove Co., Detroit, Mich.
Murray Iron Works Co., Burlington, Ia.
Peninsular Stove Co., Detroit, Mich.

## 11098—Stoves (Confectioners')

Mount Penn Stove Works, Reading, Pa.
Peninsular Stove Co., Detroit, Mich.
White, Chas. H. Heating Co. (Gas or Coal), 22 Bowker, Boston, Mass.

## 11099—Stoves (Electric Disc)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 11100—Stoves (Gasoline)

A. B. Stove Co., Battle Creek, Mich.
American Stove Co. ("Quick Meal," "Jewell," "Reliable," "Dangler," "New Process," "National"), St. Louis, Mo.
American Vapor Stove Co., Detroit, Mich.
Clark, Geo. A. & Co. ("Jewell"), 82 Michigan av, Chicago, Ill.
Insurance Stove, Range & Foundry Co., Covington, Ky.
King Light Co., Peoria, Ill.
National Stove Co., Lorain, O.
Rutherford, J. & Son, Akron, O.
Sun Vapor Stove Mfg. Co., Detroit, Mich.
Toledo Cooker Co. ("Ideal"), Toledo, O.

## 11101—Stoves, Heaters & Ranges (Gas)

A. B. Stove Co., Battle Creek, Mich.
Abendroth Bros. Corp. ("York" Ranges), 109 Beekman, New York
Adler, H. Co., Carnegie, Pa.
Albany Foundry Co. ("Argand" Heaters & Ranges), Albany, N. Y.
American Beauty Stove Co. ("American Beauty"), Erie, Pa.
American Stove Co. ("Quick Comfort" Heaters, "Quick Meal," "Reliable" & "Jewell" "National" & "New Process" Stoves), St. Louis, Mo.
Art Stove Co., Detroit, Mich.
Baxter Stove Co., Mansfield, O.
Block, I. & Son, 393 Pearl, New York
Brand Stove Co. ("Famous" Gas Ranges), Milwaukee, Wis.
Buffalo Co-Operative Stove Co. ("Amherst" Ranges), Buffalo, N. Y.
Central Oil & Gas Stove Co. (No Ranges), Gardner, Mass.
Chelsea Stove & Mfg. Co. ("Bright & Best", Gas Stoves), Chelsea, Mich.
Clark, Geo. M. & Co. ("Jewel"), 82 Michigan av, Chicago, Ill.
Co-operative Foundry Co., Rochester, N. Y.
Columbia Gas Stove Co., Huntington, W. Va.
Crane, Wm. M. Co. (Stoves, Heaters & Ranges; also Coal), 16 W 32d, New York
Cutter & Proctor Stove Co. ("Peoria" Heaters, "Lexington" Ranges), Peoria, Ill.
Dangler Stove Co. ("Gem"), Cleveland, O.
Denison Mfg. Co. (For House Only), Warren, Ohio
Detroit Heating & Lighting Co. (Stoves & Ranges), Detroit, Mich.
Detroit Stove Works (Stoves & Ranges), Detroit, Mich.
Detroit Vapor Stove Co., Detroit, Mich.
Eclipse Gas Stove Co. ("Eclipse"), Rockford, Ill.
Eclipse Stove Co., Mansfield, O.
Economy Stove Co. ("Economy" Ranges), Cleveland, O.
Eriez Stove & Mfg. Co., Erie, Pa.
Estate Stove Co., Hamilton, O.
Favorite Stove & Range Co. ("Favorite" Ranges), Piqua, O.
Florence Co., Florence, Mass.
Fuller & Warren Co., Troy, N. Y.
Gem City Stove Co. ("Clermont" & "Perfect"), Dayton, O.
Gem City Stove Co., Quincy, Ill.
Germer Stove Co. ("Radiant Home" Automatic Heaters & "Classic" Heaters & Ranges), Erie, Pa.
Goldstein, Jos., 323 Pearl, New York
Goodman Generator & Radiator Co. (Gas Heaters), St. Louis, Mo.
Grinberg Bros., 154 South, New York
Griswold Mfg. Co. ("Classic"), Erie, Pa.
Guignon, H. A. ("Economy," Base Heating Stoves), Corry, Pa.
Hemp & Co. ("Hemp" Gas Heating Stove), St. Louis, Mo.
Hermyer Stove Co. (Heaters), Tiffin, O.
Hoerlein, F. G. (Bakers' Gas Stoves), 806 Myrtle av, B'klyn. N. Y.
Hoopman & Pearce (Gas Stoves), Byesville, O.
Hydraulmatic Co. ("Essex"), Newark, N. J.
Ideal Mfg. Co. (Ranges Only), Detroit, Mich.
Independent Register & Mfg. Co., Cleveland, O.
Kalamazoo Stove Co. ("Kalamazoo" Ranges), Kalamazoo, Mich.
Kaufman, A. G. Mfg. Co. ("Radion" Portable Gas Jet, Heater & Cooking Stove), 133 Reade, New York
Klaine, F. A. Co. ("Good Will" Ranges), Cincinnati, Ohio
Klingelhoffer, Wm. & Co. ("Perfect"), 1428 5th av, Pittsburg, Pa.
Lawrence Stove & Mfg. Co., Buffalo, N. Y.
Ley, John P., 2 Burlington Slip, New York
Lindeman, A. J. & Hoverson Co. (Ranges), Milwaukee, Wis.
M. & D. Range Co. (Gas Ranges), 83 Lake Chicago, Ill.
Manhattan Gas Heating Co. ("Manhattan"), 909 7th av, New York
Maryland Meter Co., Baltimore, Md.
Michigan Stove Co. ("Garland"; also Appliances), Detroit, Mich.
Monitor Stove & Range Co. ("Monitor" Ranges), Cincinnati, Ohio
Mountain State Gas Stove & Mfg. Co., Moundsville, W. Va.
National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.
National Light & Heating Co. (Stoves, etc.), Freeport, O.
National Stove Co., Lorain, O.
New Method Stove Co. (For Natural Gas Heating & Cooking), Mansfield, O.
New York Gas Stove Works, 243 Water, New York
Novelty Mfg. Co. (Heaters Only), Jackson, Mich.
Odin Stove Mfg. Co., Erie, Pa.
Peerless Stove & Range Co. ("Radium," "Peerless"), Columbus, O.
Peninsular Stove Co., Detroit, Mich.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Progress Furnace Co., Springfield, O.
Quad Stove Mfg. Co. ("Quad" Ranges), Columbus, Ohio
Rathbone, Sard & Co. ("Acorn" Gas Ranges, etc.), Albany, N. Y., & Aurora, Ill.
Reed & Sons Mfg. Co. ("Wizard," "Clayton," Stoves), 527 Smith, Brooklyn, N. Y.
Republic Stove & Mfg. Co. ("Republic" Ranges), Cleveland, O.
Roberts & Mander Gas Stove Co. ("Quality" Ranges), Wash'n av. c S 11th, Phila, Pa.
Rutherford, J. & Son, Akron, O.
Schneider & Trenkamp Co. ("Reliable" Ranges, Heaters, Stoves & Gas Water Heaters), Cleveland, O.
Scranton Stove Works ("Dockash" Ranges), Scranton, Pa.
Sheppard, Isaac A. & Co. ("Imperial," "Excelsior" Ranges), Phila., Pa.
Sheridan Stove Mfg. Co., Quincy, Ill.
Silver & Co. (Inc.), 312 Hewes, Brooklyn, N. Y.
Southard-Robinson Co., 257 Water, New York
Stamford Gas Stove Co., Stamford, Conn.
Standard Lighting Co. ("New Process" Visible Gas Ranges), Cleveland, O.
Star Foundry Co., Covington, Ky.
Stephenson Mfg. Co. ("Zenith" Ranges), N S, Pittsburg, Pa.

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Stove & Range Co. (Stoves, Heaters & Ranges), Pittsburg, Pa.
Strand Heater Co. ("Strand" Gas Heater), Cleveland, O.
Success Stove Co., Erie, Pa.
Sunray Stove Co. ("Sunray"), Delaware, O.
Syracuse Stove Works, Syracuse, N. Y.
Taylor & Boggis Foundry Co. (Stoves Only), Cleveland, Ohio
Thomas-Roberts-Stevenson Co. ("Fortune" Ranges), 3rd & McKean, Phila., Pa.
**TURNER & SEYMOUR MFG. CO.** (Gas Heaters only), Torrington, Conn. (See adv. index, end of book)
Union Stove Works ("Astor" Radiator), 70 Beekman, New York, & Peekskill, N. Y.
Vesta Gas Range & Mfg. Co. (Stoves & Ranges), Chattanooga, Tenn.
Warren Stove Co. (Steel Ranges), Warren, Ohio.
Weiskittle & Son Co. ("Fire King" Gas Radiator), Aliceanna & Wash'n, Baltimore, Md.
White, Thos., Stove Co. ("Bacon"), Quincy, Ill.
Wonder Mfg. Co. ("Wonder" Ranges), Washington C. H., Ohio
World Mfg. Co. (Valveless, Wickless), Cincinnati, O.

## 11102—Stoves (Hot Blast)

**AMSLER, WALTER O. (For Gas or** Air), Wabash bldg, Pittsburg, Pa. (See adv. index, end of book)
Cole Mfg. Co., 3218 S Western av, Chicago, Ill
Lamond, D. D. & Co., Pittsburg, Pa.
McClure, G. W. Son & Co. ("McClure"), Pittsburg, Pa.
McKee, Arthur G. ("Nelson"), Cleveland, O.
Meehan Boiler & Construction Co., Lowellville, Ohio
Peninsular Stove Co., Detroit, Mich.
Sharon Boiler Works, Sharon, Pa.
Smythe, S. R. Co., Pittsburg, Pa.
Traylor Engineering Co. ("Traylor" U-Pipe for Smelting), Allentown, Pa., & 30 Church, New York

## 11103—Stoves (Laundry)

Adams Laundry Machinery Co., Troy, N. Y.
American Stove Co. ("Quick Meal," "Jewell" & "Reliable" Gas), St. Louis, Mo.
Belleville Stove & Range Co., Belleville, Ill.
Continental Radiator & Fdy. Co., St. Louis, Mo.
Crane, W. M. Co., 16 W 32d, New York
Crescent Stove Works, Evansville, Ind.
Detroit Stove Works ("Paragon"), Detroit, Mich.
Eclipse Stove Co., Mansfield, O.
Eclipse Gas Stove Co. ("Eclipse" Gas), Rockford, Ill.
Excelsior Stove& Mfg. Co., Quincy, Ill.
Fischer, Wm. G. Stove & Range Co., 223 W 3d, Cincinnati, Ohio
Fuller & Warren Co., Troy, N. Y.
Ils, John G. & Co., San Francisco, Cal.
Illinois Malleable Iron Co. ("Imico" Heater), 1801 Diversey Boul, Chicago, Ill.
Magee Furnace Co., Boston, Mass.
Mahony Mfg. Co., Troy, N. Y.
Malleable Steel Range Mfg. Co., South Bend, Ind.
Michigan Stove Co. ("Garland"), Detroit, Mich.
Miller, Wm. Range & Furnace Co., Cincinnati, O.
Novelty Iron Co. ("Our Own," "Chicago"), Canton, O.
Pierce, Butler & Pierce ("Little Giant"), Syracuse, N. Y.
Peninsular Stove Co., Detroit, Mich.
Sexton, S. B. Stove & Mfg. Co., Baltimore, Md.
Smythe, S. R. Co., Pittsburg, Pa.
Stephenson Mfg. Co. ("Zenith"), N S, Pittsburg, Pa.
Troy Laundry Machinery Co. (One, Two & Three Tiers for Laundries), 33 Warren, New York; 23d & La Salle, Chicago, Ill.
Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.

## 11104—Stoves (Masons')

**DROUVE, G. CO., 40 Tulip, Bridge**port, Conn. (See adv. index, end of book)

## Stoves (Oil)

(See Stoves & Heaters, Oil)

## Stoves (Plasterers')

(See Salamanders)

## Stoves (Sand Drying)

(See Sand & Gravel Heaters & Dryers)

## 11105—Stoves (Toaster, Electric)

**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 11106— Stoves (Wood)

Michigan Stove Co. ("Hickory-Garland"), Detroit, Mich.

## 11107—Stoves & Heaters (Oil)

American Stove Co. ("Quick Meal," "Reliable," "New Process"), 414 N 6th, St. Louis, Mo.
Barler, A. C. Mfg. Co. ("Barler Ideal"), 104 Lake, Chicago, Ill.
Block, I. & Son, 393 Pearl, New York
Bradley & Hubbard Mfg. Co. ("B. & H."), Meriden, Conn.
Central Oil & Gas Stove Co. ("Florence"), Gardner, Mass.
Chelsea Stove & Mfg. Co. ("Brightest & Best"), Chelsea, Mich.
Chicago Wheel & Mfg. Co. ("Gem"), 330 W Monroe, Chicago, Ill.
Cleveland Foundry Co. (Cooking or Heating), Cleveland, O.
Dangler Stove Co., Cleveland, O.
Florence Co., Florence, Mass.
Goldstein, Jos., 323 Pearl, New York
Grinberg Bros., 154 South, New York
Kinne Mfg. Co. ("Perfection"), Minneapolis, Minn.
Manhattan Brass Co., 338 E 28th, New York
Miller, Edw. & Co. ("Miller" Kerosene Heaters), Meriden, Conn.
National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.
National Stove Co. (American Stove Co.), Lorain, O.
New York Gas Stove Works ("The King"), 243 Water, New York
Novelty Mfg. Co. ("Alumino & Electric"), Jackson, Mich.
Plume & Atwood Mfg. Co. ("Banner"), Waterbury, Conn.
Roberts & Mander Stove Co. ("Quality"), 11th & Wash'n av, Phila., Pa.
Schutte & Koerting Co. "S. & K." Spirally Corrugated Films), 1251 N 17th, Phila., Pa.
Silver & Co. (Inc.), 312 Hewes, Brooklyn, N. Y.
Standard Lighting Co. ("New Process"), 16 Perkins, Cleveland, O.
Standard Oil Co. ("Perfection"), 555 W 25th, New York
Taylor & Boggis Fdry. Co. (Stoves Only), Cleveland, O.
Toledo Cooker Co. ("Ideal"), Toledo, O.
Weiskittle, A. & Son ("Fire King"), Aliceanna & Wash'n, Baltimore, Md.
World Mfg. Co. (Valveless, Wickless), Cincinnati, O.
Wotherspoon, Jas. R., 238 N Front, Phila., Pa.

## Stoves & Ranges (Gas)

(See Stoves, Heaters & Ranges, Gas)

## 11108— Straight Edges

Athol Machine Co. (Steel Hardened & Ground), Athol, Mass.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Brown & Sharpe Mfg. Co. (Cast Iron, Knife Edge, Steel Hardened & Ground), Providence, R. I.
Covel Mfg. Co. (Saw), Benton Harbor, Mich.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Hub Machine Welding & Contracting Co. (Cast Iron), 621 Cherry, Phila., Pa.
Keuffel & Esser Co. (Steel Flexible), 127 Fulton, New York
Massachusetts Tool Co. (Steel Hardened & Ground), Greenfield, Mass.
Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)
Pratt & Whitney Co. (Knife Edge), Hartford, Conn.
Rogers, John M. Works (Cast Iron), Gloucester City, N. J.
Sawyer Tool Mfg. Co. (Steel Hardened & Ground), Fitchburg, Mass.
**SIMONDS MFG. CO., Fitchburg,** Mass. (See adv. index & branch offices, end of book)
**STARRETT, L. S. CO. (Steel, Hard**ened & Ground), Athol, Mass. (See adv. index & branch offices, end of book)
Vulcan Tool Mfg. Co., Quincy, Mass.

## 11109—Straighteners & Cutters (Core Wire)

Adt, Jno. & Sons, New Haven, Conn.
**BLAKE, GEO. F. MFG. CO.** ("Climax"), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**FRANKLIN MFG. CO., New Haven,** Conn. (See adv. index, end of book)
Gregg Mfg. Co., Cleveland, O.
Greiner, Chas. Co., New Haven, Conn.
Hoefer Mfg. Co., Freeport, Ill.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**SHUSTER, F. B. CO., New Haven,** Conn. (See adv. index, end of book)

## 11110—Strainers (Brass, Overflow)

**VOELKNER & HARRY MANUFAC**turing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)

## 11112—Strainers (Coffee)

(See Strainers, Tea & Coffee)

## 11113—Strainers (Conductor & Eave Trough)

Andrews Wire & Iron Works, Rockford, Ill.
**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)
**BERNZ, OTTO, 21 Ashland av, New**ark, N. J. (See adv. index, end of book)
Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
**EDWARDS MFG. CO., 545-565 Eg**gleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of book)
Hamblin & Russell Mfg. Co., Worcester, Mass.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Jelliff, C. O. Mfg. Co., Southport, Conn.
Lamb & Ritchie Co., Cambridge, Mass.
**MEYERS, F. J. MFG. CO., Hamil**ton, O. (See adv. index, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
National Mfg. Co. (Wire), Worcester, Mass.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Parker Wire Goods Co., Worcester, Mass.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Strawbridge & Chase Co., 228 Arch, Phila., Pa.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 11114— Strainers (Cup)

Hauptman, A., 23 Leonard, New York

## 11114a—Strainers (Galvanized Flanged)

**ABENDROTH & ROOT MFG. CO., New**burgh, N. Y. (See adv. index and branch offices, end of book)

## 11115—Strainers (Gasoline)

**LUNKENHEIMER CO., General Of**fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 11115a—Strainers (Gutter)

(See Strainers, Conductor & Eave Trough)

## 11116—Strainers (Horizontal Pump)

**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

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## 11117—Strainers (Hose)

American Injector Co., Detroit, Mich.
Edna Brass Mfg. Co., Cincinnati, O.
Elkhart Brass Mfg. Co. (Brass Suction for Fire Dep't), Elkhart, Ind.
Glauber Brass Mfg. Co., Cleveland, O.
Hancock Inspirator Co., 85 Liberty, New
Penberty Injector Co., Detroit, Mich. York

## 11118—Strainers (Injector)

**LUNKENHEIMER CO., General Offices & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Ohio Injector Co., Wadsworth, O.

## 11119—Strainers (Irrigating)

Butler Co., Butler, Ind.

## 11120—Strainers (Oil Well)

Houston Iron Works, Houston, Tex.
Layne & Bowler Co., Houston, Tex.
McElvay, J. H. & Co., Houston, Tex.
Smith, Howard Co., Houston, Tex.
Stancliff Well Screen & Mfg. Co., Houston,
Warnecke, Albert, Houston, Tex. Tex.

## 11121— Strainers (Pipe)

Central Foundry Co., 90 West, New York
Mueller, H. Mfg. Co., Decatur, Ill.
Pancoast, Henry B. & Co. ("Extra Leaky"), 243 S 3d, Phila, Pa.

## 11122—Strainers (Sink)

American Pin Co., Waterbury, Conn.
Andrews Wire & Iron Works ("Vrooman's" "Aunt Dinah's"), Rockford, Ill.
Barber Mfg. Co. (Painted & Enameled), Ashtabula, O.
Blairsville Enameled Ware Co., Blairsville, Pa.
Bregwoodkro Stamping & Mfg. Co., Lorain, O.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Columbian Enameling & Stamping Co. (Enameled), Terre Haute, Ind.
Elite Strainer Mfg. Co., Cleveland, O.
Frost Mfg. Co. (Basin & Sink), Kenosha, Wis.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Lasher Mfg. Co. (Wire), Davenport, Ia.
Minerva Hardware Mfg. Co., Minerva, O.
National Mfg. Co. (Wire), Worcester, Mass.
Parker Wire Goods Co. (Wire), Worcester, Mass.
Pritchard Stamping Co. ("Prisco"), Rochester, N. Y.
Roseland Can & Specialty Co. ("Century"), Rockford, Ill.
**VOELKNER & HARRY MANUFACturing Co.** (Trap Bath Tub, etc.), 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
Wire Goods Co., Worcester, Mass.
Wire Hardware Co., 1824 Besly Court, Chicago, Ill.

## 11123—Strainers (Suction)

Elliott Co. (Single, Twin, Triple, Multiple & Intak), Pittsburg, Pa.
Lagonda Mfg. Co. ("Lagonda" Multiple Water Strainer), Springfield, O.
Liberty Mfg. Co. ("Liberty" Twin), Pittsburg,
Schutte & Koerting Co., 1251 N 12th, Phila.
Uncas Specialty Co. ("Leavitt"), Norwich, Conn.

## 11124—Strainers (Tea & Coffee)

Hero Mfg. Co. (Aluminum), Gaul & Adams, Phila., Pa.
Lueck, E. A. Co. ("Twentieth Century"), Milwaukee, Wis.

## 11125—Strainers (Tube Well)

Cook, A. D. ("Cook's" Brass), Lawrenceburg, Ind.

## 11126—Strainers (Urinal)

Hach, Richard G. ("Hach"), 159 E 26th, New York
Haines, Jones & Cadbury Co., 1128 Ridge av, Phila., Pa.
Milwaukee Brass Mfg. Co. ("Bee Hive"), Milwaukee, Wis.
Mott, J. L. Iron Works, 118 5th av, New York
Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.

## 11127—Strainers & Separators (Gasoline)

Breeze Carbureter Co. ("Brever"), Newark, N. J.
Columbus Brass Co., 41 N 4th, Columbus, O.
Fairmount Engineering Co. ("Chadwick"), 3205 Spring Garden, Phila., Pa.
Hatcher Auto Parts Co., 138 Viaduct, Cleveland, O.
Sterling Machine Co. ("Leavitt"), Norwich, Conn.
Imperial Brass Mfg. Co., 454 S Jefferson, Chicago, Ill.
Winkley Co. ("Eureka"), Detroit, Mich.

## 11127a—Strand (Stone Sawing)

**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Trenton Iron Co., Trenton, N. J., & 30 Church, New York

## 11128— Straps (Anchor)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
O'Leary, Arthur J. & Son Co., 652 W Lake, Chicago, Ill.

## 11129—Straps (Automobile)

Brace Leather Goods Co., Pontiac, Mich.

## 11129a—Straps (Baggage Check)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)

## 11130—Straps (Beam Electric)

Steel City Electric Co., Pittsburg, Pa.

## 11132— Straps (Bill)

Salisbury Mfg. Co. ("Salisbury"), Providence, R. I.

## Straps (Crate)

(See Box Straps)

## 11133—Straps (Deckle)

**BOSTON BELTING CO. (For Foundrinier** Paper Machines), 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

## 11134—Straps (Glazing)

**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)

## 11135— Straps (Hose)

American Brass & Copper Co., 138 Lafayette, New York
American Foundry & Mfg. Co., St. Louis, Mo.
Central Brass Mfg. Co., Cleveland, O.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Park & McKay Co., Detroit, Mich.
Walworth Mfg. Co., Boston, Mass.

## 11136— Straps (Pipe)

American Pin Co. (Brass), Waterbury, Conn.
Berger Bros. Co., 237 Arch, Philadelphia, Pa.
Blasier, M. E. Mfg. Co., Utica, N. Y.
Boston Brass Co., 36 Oliver, Boston, Mass.
Cann & Saul, 516 Commerce, Phila, Pa.
Chambers & Co. (Brass), Newark, N. J.
Combination Rubber & Belting Co., Bloomfield, N. J.
Devlin, Thos. Mfg. Co. (Malleable Iron), 3d & Lehigh av, Phila, Pa.
Diamond Stamped Ware Co., Detroit, Mich.
Falls Mfg. Co., 360 Fremont, San Francisco, Cal.
Famous Mfg. Co., Grand Rapids, Mich.
Fee & Mason, 81 Beekman, New York
Good Mfg. Co., 305 E 134th, New York
Grabler Mfg. Co., Cleveland, O.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Lalance & Grosjean Mfg. Co. (Wrought Steel, Gas, etc.), 299 B'way, New York
Loew Mfg. Co., Cleveland, O.
Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.
Robinson Mfg. Co., Cleveland, O.
Sanitary Co. ("Paragon"), Cleveland, O.
Smith & Egge Mfg. Co. (Single & Double). Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Taylor, George (Brass), 97 Cliff, New York
Wall, P. Mfg. Supply Co., Pittsburg, Pa.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
West Penn Plating & Mfg. Co., N S, Pitts-
Wise, J. B., Watertown, N. Y. burg, Pa.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wolverine Brass Works (Tinned), Grand Rapids, Mich.

## 11137—Straps (Pitman)

**WHITMAN & BARNES MFG. CO.** (Iron & Wood for Agl. Implts.), Akron, O. (See adv. index & branch offices, end of book)

## 11138— Straps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Harvey Forging Co., Racine, Wis.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

## 11139—Straps (Skate, Trunk, Blanket, Etc.)

Graton & Knight Mfg. Co., Worcester, Mass.
**HUDSON BELTING CO. (Trunk, etc.),** 3 Eaton pl, Worcester, Mass. (See adv. index, end of book)
Kirby Mfg. Co., Middletown, Conn.
National Leather Mfg. Co., Niles, Mich.
Page Belting Co., Concord, N. H.

## 11140—Straps (Street Car)

McClinchie, Uriah, 152 E 23d, New York
Rhoades, J. E. & Son, 12 N 3d, Phila., Pa.
Wallace Supply Co. (Hand Straps), 120 S Jefferson, Chicago, Ill.

## 11141—Straps (Timber)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Kansas City Bolt & Nut Co. (Also Bridge), Kansas City, Mo.

## 11142—Straw Board Mfrs.

Albany Paper Co., Albany, Ind.
American Straw Board Co., 6 Sherman, Chicago, Ill.
Barrett Mfg. Co. (Plain & Tarred), 17 Battery pl, New York
Beloit Box Board Co., Beloit, Wis.
Brookside Paper Co., South Manchester, Conn.
California Paper & Board Mills, San Francisco, Cal.
Coshocton Straw Paper Co., Coshocton, O.
Crescent Paper Co., Marseilles, Ill.
Cushman, A. R. Co., Cushman, Mass.
Dodge, Levi, Delphi, Ind.
Eastern Straw Boaard Co., Manchester, Conn.
Foulds, Wm. Co., Manchester, Conn.
Hagar Straw Board & Paper Co., Cedarville, O.
Hartford Board Co., Hartford, Conn.
Hartje Paper Mfrs. Co., Pittsburg, Pa.
Henderson, Anna L., Millburn, N. J.
Hinde & Dauch Paper Co., Sandusky, O.
Independent Paper Co., Independence, Kan.
Illinois Box Board Co., Pekin, Ill.
Koons, J. R. & Son, Huntington Mills, Pa.
Lafayette Box Board & Paper Co., Lafayette, Ind.
Lydall & Foulds Paper Co., Manchester, Conn.
McEwan Bros. (Inc.) (Paper Box Boards), Whippany, N. J.
Mount Vernon Strawboard Co., Mount Vernon,
Muir, Jas. A., Morristown, N. J. Ind.
National Paper Mills & Filler Co., Tama, Ia.
Niles Board & Paper Co., Niles, Mich.
North Star Mfg. Co., Coffeyville, Kan.
Pairpoint Corporation, New Bedford, Mass.
Pemble, Wm. & Sons, Stillwater, N. Y.
Reynolds-Boyle Co., Jersey City, N. J.
Robinson, C. W., Downington, Pa.
Rockford Paper Mills, Rockford, Ill.
Rockford Paper Box Board Co., Rockford, Ill.
Smith, Isaac E., St. Johnsville, N. Y.
Terre Haute Paper Co., Terre Haute, Ind.
United Boxboard Co., 111 B'way, New York
United States Board & Paper Co., Carthage,
Veiths Paper Mills, Marion, Ind. Ind.
Vincennes Paper Co., Vincennes, Ind.
Waterloo Paper Co., Waterloo, Ia.
Wausauc Mills Co., South Glastonbury, Conn.
Yoran, Levi, Fort Plain, N. Y.

## 11142a—Straw Board (Tarred)

**WATSON, H. F. CO., Erie, Pa.** (See adv. index & branch offices, end of book)

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## 11143– Street Lighting

American Gas Machine Co. (Gasoline Apparatus), Albert Lea, Minn.
Best Light Co., Canton, O.
**FLOUR CITY ORNAMENTAL IRON** Works ("Corinthian" Standard Tungsten Lights for Cities), 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)
Welsbach Street Lighting Co. (of America), Broad & Arch, Phila., Pa., & Chicago, Ill.

## 11143a–Street Lighting (Sun Vapor)

(See Lamps, Incandescent Vapor Gas)

## Street Railway Sprinkling Cars

(See Cars, Sprinkling, Street Railway)

## 11144–Street Sprinkler Wagon Tanks

Acme Road Machinery Co., Frankfort, N. Y.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Littleford Bros., Cincinnati, O.

## 11145–Street Sprinkling Carts & Wagons

Abbott, Downing Co., Concord, N. H.
Acme Road Machinery Co., Frankfort, N. Y.
Austin-Western Co. ("Austin"), Manhattan bldg, Chicago, Ill.
Etnyre, E. D. & Co., Oregon, Ill.
Kelly-Springfield Road Roller Co., Springfield, Ohio
Lansing Wheelbarrow Co. (Carts), Lansing, Mich.
Studebaker Corp., South Bend, Ind.
Universal Road Machinery Co., Kingston, N. Y.
Winkler Bros. Mfg. Co., South Bend, Ind.
Winship Mfg. Co., Racine, Wis.
Woodhouse, J. S., 191 Water, New York

## 11145a–Stretchers (Box Strap)

**CARY MFG. CO. ("Cary's"), 29** Roosevelt, New York. (See adv. index, end of book)

## 11146–Stretchers (Carpet)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Braunsdorf - Mueller Co. (Extension Handle), Elizabeth, N. J.
Bridgeport Hardware Mfg. Corp., Bridgeport, Conn.
Buffalo Specialty Co., Buffalo, N. Y.
Cady Mfg. Co., Auburn, N. Y.
Denison Mfg. Co., Warren, O.
Gilray Stretcher Co., Buffalo, N. Y.
Hinkle, J. N. Co. ("Hinkle Stand p"), Berea, Ohio
Hunt, Helm, Ferris & Co. ("Star" Round Bar), Harvard, Ill.
Johnson, Wm. (Hedenberg Wks.), Newark, N. J.
Judd, H. L. Co., 87 Chambers, New York
Knapp, Geo. S. ("Bullard"), Bridgeport, Conn.
Kraeuter & Co., Newark, N. J.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mallory, C. M., Albion, N. Y.
Montross, R. W. ("Excelsior" Stretcher & Tack Hammer Combined), Galien, Mich.
Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Potter Mfg. Co., Geneva, O.
Quilling, J. W. Mfg. Co. ("Faultless" Stretcher & Tacker), Quincy, Ill.
Sargent & Co., New Haven, Conn.
Sayre, L. A. & Son, Newark, N. J.
Smith, Seymour & Son, Oakville, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.
Taylor Mfg. Co. ("Yankee," Stretcher & Tack Holder), Hartford, Conn.

## 11147–Stretchers (Curtain)

Book Novelty Co. ("Book"), Waterbury, Conn.
Chicago Curtain Stretcher Co. ("No Piece"), 403 N Lincoln, Chicago, Ill.
Gilray Stretcher Co., Buffalo, N. Y.
Holmquist & Co. ("Home-Kissed"), 24th & Butler, Chicago, Ill.
Phillips, A. J. Co., Fenton, Mich.
Wagner Curtain Stretcher Co., Greensburg, Pa.
Whipple Mfg. Co., 169 Jackson boul, Chicago, Ill.

## 11148–Stretchers (Electric Wire)

Eureka Tempered Copper Works, North East, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 11149–Stretchers (Hospital)

Miller Supply Co., Huntington, W. Va.
Wheeling Tent & Awning Co., Wheeling, W. Va.

## Stretchers (Saw)

(See Saw Stretching Machines)

## 11150–Stretchers (Wire)

**AMERICAN STEEL & WIRE CO.** ("Lott," "American"), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**ARCADE MFG. CO. ("Warner,"** "Dean", "Elwood" & "Little Giant"), Freeport, Ill. (See adv. index, end of book)
Burgess & Norton Mfg. Co., Geneva, Ill.
Burr Mfg. Co. (Fence & Wire), Cleveland, O.
Cargill Mfg. Co. ("Ohio"), Columbus, O.
Carr, E. R., Avon, Ill.
Church Bros. ("Church," for Woven Wire Fence), Adrian, Mich.
Cyclone Fence Co. ("Cyclone," for Woven Wire Fence), Waukegan, Ill.
Cyclone Woven Wire Fence Co. ("Cyclone"), Cleveland, O.
De Kalb Fence Co. ("De Kalb," for Wire Fence), De Kelb, Ill.
Denning Wire & Fence Co. ("Handy," "Lindsay," for Woven Wire Fence), Cedar Rapids, Ia
Dillon-Griswold Wire Co. ("Griswold," for Woven Wire Fence), Sterling, Ill.
Dwiggins Wire Fence Co. ("Perfection," for Woven Wire Fence), Anderson, Ind.
Elliott & Reid Co. ("Royal," for Woven Wire Fence), Richmond, Ind.
Hall Mfg. Co. ("Benedict's"), Monticello, Ia.
Hardware & Woodenware Mfg. Co. ("Brighton" Wire Fence), 693 B'way, New York
Hohulin Bros. ("Success," for Woven Wire Fence; also for Wire Fence), Goodfield, Ill.
Hunt, Helm, Ferris & Co. ("Star," "Knoxall," "Elwood," "Endless," "Dean," "Little Giant," "Self Lock," "Sampson," "Big Giant," for Woven Wire Fence; also for Wire Fence), Harvard, Ill.
Interlocking Fence Co. ("Interlocking"), for Woven Wire Fence & for Wire Fence), Morton, Ill.
Jackson Fence Co. ("Jackson," for Woven Wire Fence), Jackson, Mich.
Keystone Steel & Wire Co. ("Samson," for Woven Wire Fence), Peoria, Ill.
Lamb Wire Fence Co. ("Lamb," for Woven Wire Fence), Adrian, Mich.
Mason Fence Co. ("Bull Dog"), Leesburg, O.
Milwaukee Hay Tool Co. ("Milwaukee," for Wire Fence), Milwaukee, Wis.
Never Slip Wire Stretcher & Novelty Co., West Farmington, O.
New England Anchor Fence Co. (For Woven Wire Fence), Worcester, Mass.
Ney Mfg. Co. ("Ney," for Wire Fence), Canton, O.
Page Woven Wire Fence Co. ("Page," for Woven Wire Fence; also "Pittsburg," for Wire Fence), Adrian, Mich.
Prairie States Mfg. Co. ("Prairie" Fence), Cedar Rapids, Ia.
**RICHARDS - WILCOX MFG. CO.** ("Richards" Tackle Block Self-Locking, "Richards" Continuous & "Giant"), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Smith, C. F. & Co. ("Franklin," for Woven Wire Fence), De Kalb, Ill.
Stowell Mfg. & Foundry Co. ("Franklin", for Wire Fence), South Milwaukee, Wis.
Strickler Hay Tool Co., Janesville, Wis.
Townsend, F. J., Painted Post, N. Y.
Western Steel & Iron Works ("Western"), De Pere, Wis.
Wheaton & Utley ("Matthews"), Sunbury, O.

## 11151–Stringers (Ham)

**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 11151a– Strings (Bag)

**NEW YORK CORDAGE CO. ("Nycord" Sisal & Hemp),** 85 Wall, New York. (See adv. index, end of book)

## 11152–Strippers (Ingot)

Modern Steel Structural Co. (Electric & Hydraulic), Waukesha, Wis.
**MORGAN ENGINEERING CO. (Electric & Hydraulic), Alliance, O.** (See adv. index, & branch offices, end of book)
Wellman-Seaver-Morgan Co., Cleveland, O.
**WHITING FOUNDRY EQUIPMENT** Co. (Electric & Hydraulic), Harvey, Ill. (See adv. index & branch offices, end of book)

## 11153–Stroppers (Razor)

**ALEXANDER STROPPER CO. (Rotary),** 507 W Lombard, Baltimore, Md.
Bestgen, J. G. ("Best Yet"), 161 Summer, Boston, Mass.
Clauss Shear Co. ("Never Fail"), Fremont, O.
Fleming Sales Co., 253 B'way, New York
Kampfe Bros., 8 Reade, New York
Keenoh Co. ("Keenoh"), Detroit, Mich.
Meisselbach, A. F. & Bro. ("Wizard", Safety Razor), Newark, N. J.
Perfection Razor Strop Co., Chicago, Ill.
Pullman Mfg. Co. ("Pullman"), Rochester, N. Y.
Twinplex Mfg. Co. ("Twingplex", Safety Razor), St. Louis, Mo.
Zinn, Edward ("Gillette Blade"), 670 Hudson, New York

## 11154– Strops (Razor)

Allegrette Mfg. Co., Geneva, N. Y.
Auto Strop Safety Razor Co., 345 5th av, New York
Bison Mfg. Co., Little Valley, N. Y.
Bouchard & Oakes Razor Strop Co., Canastota, N. Y.
Bradford Razor Strop Co., Bradford, Pa.
Case Cutlery Mfg. Co., Kane, Pa.
Case, W. R. & Son, Bradford, Pa.
Carborundum Co. (Carborundum), Niagara Falls, N. Y.
Crandall Cutlery Co., Bradford, Pa.
Eddy Mfg. Co., Worcester, Mass.
Gifford-Weiffenbach Co., Adrian, Mich.
Hemmerdinger, John H., 42 Russell, Brooklyn, N. Y.
International Cutlery Co., Fremont, O.
Kampfe Bros., 8 Reade, New York
Koken Barbers' Supply Co., St. Louis, Mo.
Loveless, L. W. Mfg. Co., Lafayette, Ind.
National Cutlery Co. ("Morton," "National"),
Pike Mfg. Co., Pike, N. H. Phila., Pa.
Radiumite Co., Dayton, O.
Reppenhagen, C. D., Highland Falls, N. Y.
Riordan, T. G. Mfg. Co., 2010 W Kinzie, Chicago, Ill.
Roheson Cutlery Co., Rochester, N. Y.
Shull, W. A., 142 N. 4th, Philadelphia, Pa.
Silberstein, A. L., 476 B'way, New York
Sunasack, R. W. Co., 2127 Chicago av, Chicago, Ill.
Torrey, J. R. & Co., Worcester, Mass.
Union Cutlery Co., Tidioute, Pa.
Wanacek Strop Co., Fremont, O.
Wasserstrom, L. B., 23 Ferry, New York

## 11155–Stubs (Expansion)

**STAR EXPANSION BOLT CO. (Awning "Star"),** 147 Cedar, New York. (See adv. index & branch offices, end of book)

## 11156–Stucco (Asbestos)

**JOHNS, H. W.-MANVILLE CO. ("J-M"),** 100 William, New York. (See adv. index & branch offices, end of book)

## 11157– Stucco Mfrs.

Acme Cement Plaster Co., St. Louis, Mo.
American Gypsum Co., Cleveland, O.
Cardiff Gypsum Plaster Co., Fort Dodge, Ia.
Consumers' Gypsum Co., Clinton, O.
Empire Gypsum Co., Garbutt, N. Y.
Fort Dodge Gypsum Co., Fort Dodge, Iowa
Garbutt Gypsum Co., Rochester, N. Y., & Garbutt, N. Y.
Iowa Hard Plaster Co., Fort Dodge, Iowa
Lycoming Calcing Co., Williamsport, Pa.
McCarrel Compo-Stone & Stucco Co., Jacksonville, Fla.
Monumental Plaster Co. ("Oriental", Ready for Use), Harrison, N. J.
Niagara Gypsum Co. ("Niagara"), 597 Michigan, Buffalo, N. Y.
Plymouth Gypsum Co., Fort Dodge, Iowa
Reeb, M. A., 599 Michigan, Buffalo, N. Y.
Southern Gypsum Co., North Holston, Va.
United States Gypsum Co., 200 Monroe, Chicago, Ill., & Cleveland, O.

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## 11158– Stucco Retarder

Chemical Stucco Retarder Co., Webster City, Iowa
Ohio & Binns Retarder Co., Port Clinton, O.
Sheridan Stucco Retarder Co., Toledo, O.

## 11159– Stucco Work

**ARCHITECTURAL DECORATING CO.,** 1600 Jefferson, Chicago, Ill. (See adv. index & branch offices, end of book)
Berger's, H. Sons, 101 4th av, New York
Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.
Fischer & Jirouch, 1008 Scovil av, S. E. Cleveland, O.
Forman, Geo. A., 654 Gates av, Brooklyn, N.Y.
Fowle, Herbert, 43 Bristol, Boston, Mass.
Klee-Thomson Co., 327 E 40th, New York
Lewis, Geo. W., 390 Knight, Providence, R. I.
Maltby, W. H. & Sons, Corning, N. Y.
Root, C. R., 104 Asylum, Hartford, Conn.
Schneider, F. H., Syracuse, N. Y.
**SEIFERT, FRANK A. PLASTIC RE**lief Co., 2627-2631 Dayton, St. Louis, Mo. (See adv. index, end of book)
Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
Van Malderen, F., 5th av & Jumonville, Pittsburg, Pa.

## 11160–Studding (Prong Lock)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)

## 11161–Studs (Electric Fixture)

Steel City Electric Co. ("Star"), Pittsburg, Pa.

## 11162– Studs (Harness)

Jenckes, E. Mfg. Co., Worcester, Mass.

## 11163– Studs (Lacing)

Tubular Rivet & Stud Co., Boston, Mass.

## 11164– Studs (Metal)

**BERGER MFG. CO., (Prong Lock),** Canton, O. (See adv. index & branch offices, end of book)
**DETROIT SCREW WORKS (Metal &** Steel Studs), 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Knapp Bros. Mfg. Co. ("Knapp's" for Plaster Fireproof Partitions), 2419 W 14th, Chicago, Ill.
Standard Co. (Steel, Brass & Copper), Torrington, Conn.
Union Building Material Co. ("Union"), 3 Old B'way, New York
United Steel Studding Co. ("Collins"), Sharon, Pa., & Chicago, Ill.
Waltham Screw Co., Waltham, Mass.
Youngstown Iron & Steel Co. (For Furring, etc.), Youngstown, O.

## 11165–Studs (Milled Iron)

American Iron & Steel Mfg. Co. (Also Brass), Lebanon, Pa.
American Rivet Co., New Haven, Conn.
Anthony Screw Co., Worcester, Mass.
Blake & Johnson Co., Waterbury, Conn.
Chicago Screw Co., 1026 S Hoffman av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Corbin Screw Corporation, New Britain, Conn.
Critchley Machine Screw Co., Worcester, Mass.
Curtiss Screw Co., Buffalo, N. Y.
**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)
Dodge Screw Corporation ("Special"), 27 Purchase, Boston, Mass.
Ferry Cap & Set Screw Co., Cleveland, O.
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hope, Wm. H. Co., Lowell, Mass.
Hopedale Machine Co., Hopedale, Mass.
**NATIONAL-ACME MFG. CO., 7500** Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Niagara Screw Co., Buffalo, N. Y.
Pawtucket Mfg. Co., Pawtucket, R. I.
Philadelphia Machine Screw Works, Race & Sheridan, Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Progressive Mfg. Co. (Also Steel, Brass, etc., to Order Only), Torrington, Conn.
Reed & Curtis Machine Screw Co., Worcester, Mass.
Rhode Island Tool Co., Providence, R. I.
Worcester Machine Screw Co., Worcester, Mass.

## 11166– Stuff Chests

**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)

## 11167–Stuffers (Sausage)

Brecht, Gus. V. Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.
Donaldson Bros., Mount Clemens, Mich.
Enterprise Mfg. Co., Phila., Pa.
Haven Malleable Castings Co., Cincinnati, O.
Landers, Frary & Clark, New Britain, Conn.
Morris, John B. Foundry Co., Cincinnati, O.
Murray Iron Works Co. ("Stallman," Stearn & Draw-Cut, etc.), Burlington, Iowa
National Specialty Co., Lehigh av & 3d, Phila., Pa.
Peck, Stow & Wilcox Co. ("Perry" Pattern), Southington, Conn.
Sargent & Co. ("Perry" Pattern), New Haven, Conn.
Silver Mfg. Co. ("Wagner"), Salem, O.
Smith's, John E. Sons Co., Buffalo, N. Y.
South Bend Foundry Co., South Bend, Ind.
Stevens, Benj. A. Co., Toledo, O.
Union Machine Works & Iron Foundry ("Union"), 1825 So Water, Phila., Pa.

## Submarine Armor

(See Diving Apparatus)

## Suckers (Soot)

(See Cleaners, Boiler Flue & Tube)

## 11168– Sugar of Lead

Harshaw, Fuller & Goodwin Co., Cleveland, O
Sholes, Chas. E. Co., 164 Front, New York

## 11169–Sugar Machinery

(Under this Heading see the following Classifications)

Barrel Packers, Sugar.
Batteries, Diffusion.
Beet Washing & Slicing Machines.
Cane Sugar Machinery.
Carbonation or Saturation Plants.
Centrifugals & Mixers, Sugar.
Char Filters & Kilns.
Clarifiers.
Conveyors, Ribbon Scroll.
Crushers, Sugar Cane.
Crystalizers.
Cube Sugar Apparatus.
Defecators.
Dryers, Cane, Continuous.
Evaporators, Multiple Effects.
Feeders, Sugar Cane Carrier.
Filters, Bag.
Filters, Mechanical Sugar.
Furnaces, Bagasse.
Grabs, Sugar Cane.
Granulators, Sugar.
Heaters, Juice.
Kilns, Lime.
Loaders, Sugar Cane.
Mills, Sugar Cane.
Pans, Vacuum.
Portable Railways.
Rollers & Pinions.
Shredders, Sugar Cane.
Sugar Cane Unloading Apparatus & Conveyor.
Sulphur Machines.
Triturators.

### 11169a—Barrel Packers (Sugar)

Hersey Mfg. Co., 314 W 2nd, Boston, Mass.

### 11169b—Batteries (Diffusion)

Deeley, Robert & Co., 29 B'way, New York
Dyer Co., Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
Krajewski-Pesant Co., 21 State, New York
Morris, Henry G., 333 Walnut, Phila, Pa.
Pusey & Jones Co., Wilmington, Del.
Stearns-Rogers Mfg. Co., Denver, Colo.
Swenson Evaporator Co. (Circular), Chicago, Ill.
Whitney Iron Works Co., New Orleans, La.

### 11170—Beet Sugar Machinery

Allentown Fdry & Machine Works, Allentown, Pa.
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dyer Co., Cleveland, O.
Jackson & Church Co., Saginaw, Mich.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Kilby Mfg. Co., Cleveland, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Moline Plow Co., Moline, Ill.
Stearns-Rogers Mfg. Co., Denver, Colo.

### 11171—Beet Washing & Slicing Machines

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Dyer Co., Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Stearns-Rogers Mfg. Co., Denver, Colo.

### 11172—Cane Sugar Machinery

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Dyer Co., Cleveland, O.
Fulton Iron Works, St. Louis, Mo.
Guiler Engineering Co., 359 Produce Exchange, New York
**HOOVEN, OWENS, REUTSCHLER** Co., Hamilton, O. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus,** O. (See adv. index & branch offices, end of book)
Krajewski-Pesant Co., 21 State, New York
**LINK BELT CO., Hunting Park av,** & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
McMutrie-Guiler Co., 82 Beaver, New York

### 11173—Carbonation or Saturation Plants

Dyer Co., Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
Pusey & Jones Co., Wilmington, Del.

### 11174—Centrifugals & Mixers (Sugar)

American Laundry Machinery Mfg. Co. (Centrifugals), 80 Franklin, Chicago, Ill.
American Tool & Machine Co. ("Weston"), Boston, Mass.
Blymyer Iron Works Co. ("Triumph" with Hand Power Jack), Cincinnati, O.
Boland Machinery & Mfg. Co., New Orleans, La.
Coldwell-Wilcox Co., Newburgh, N. Y.
Deeley, Robt. & Co. (Sugar), 29 B'way, New York
Hepworth, S. S. Co., 92 William, New York
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Krajewski-Pesant Co., 21 State, New York
Lathbury-D'Olier Co. (Motor Driven), Morris bldg, Phila., Pa.
Morris, Henry G., 333 Walnut, Phila., Pa.
**Mundt, Chas. & Sons, 53 Fairmount av, Jersey City, N. J.**
Murphy, John H., 643 Magazine, New Orleans, La.
Payne & Joubert, New Orleans, La.
Pusey & Jones Co., Wilmington, Del.
**Squier, Geo. L. Mfg. Co., Buffalo, N. Y.**
Stearns-Rogers Mfg. Co., Denver, Colo.
Wolf, Fred W. Co., 827 Rees, Chicago, Ill.

### 11175— Char Filters & Kiln

Deeley, Robt. & Co., 29 B'way, New York
Kilby Mfg. Co., Cleveland, O.
Morris, Henry G., 333 Walnut, Phila., Pa.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Steacy-Schmidt Mfg. Co., York, Pa.
Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.
Wolf, Fred W. Co., 827 Rees, Chicago, Ill.
Wood, R. D. & Co. ("Char Filters"), 400 Chestnut, Phila., Pa.

### 11176— Clarifiers

Blymyer Iron Works Co., Cincinnati, O.
Deeley, Robt. & Co., 29 B'way, New York
Deming Apparatus Co. (For Purifying Sugar Solutions), 93 Wall, New York
Flynn, W. S., 76 Hudson, Jersey City, N. J.
Haubtman & Loeb Co. (Ltd.), New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Morris, Henry G., 333 Walnut, Phila., Pa.
Murphy, John H., Iron Works, 643 Magazine, New Orleans, La.
Payne & Joubert, New Orleans, La.

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Pioneer Iron Works, 149 Pioneer, Brooklyn,
**Pusey & Jones Co., Wilmington, Del. N. Y.**
**Squier, Geo. L. Mfg. Co., Buffalo, N. Y.**
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works: Newburgh, N. Y.
**Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.**

### 11177—Conveyors (Ribbon Scroll)

American Tool & Machine Co., Boston, Mass.

### 11177a—Crushers (Sugar Cane)

**(See Mills, Sugar Cane)**

### 11178— Crystalizers

Deeley, Robt. & Co., 29 B'way, New York
Dyer Co., Cleveland, O.
Eastwick Engineering Co., 82 Beaver, New York, & 807 Common, **New Orleans, La.**
**Kilby Mfg. Co., Cleveland, O.**
Morris, Henry G., 333 Walnut, Phila., Pa.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 149 Pioneer, Brooklyn,
Pusey & Jones Co., Wilmington, Del. N. Y.
**Treadwell, M. H. Co., 90 West, New York; Works, Lebanon, Pa.**
Stearns-Rogers Mfg. Co., Denver, Colo.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Whitney Iron Works Co., New Orleans, La.
Wolf, Fred W. Co., 827 Rees, Chicago, Ill.

### 11179—Cube Sugar Apparatus

Deeley, Robt. & Co., 29 B'way, New York
**Hersey Mfg. Co., 314 W 2d, Boston, Mass.**

### 11180— Defecators

Blymyer Iron Works Co. ("Santa Clara"), Cincinnati, O.
**Coldwell-Wilcox Co., Newburgh, N. Y.**
Deeley, Robt. & Co., 29 B'way, New York
**Flynn, W. S., 76 Hudson, Jersey City, N. J.**
Haubtman & Loeb Co. (Ltd.), New Orleans, La.
**Kilby Mfg. Co., Cleveland, O.**
**Krajewski-Pesant Co., 21 State, New York**
Morris, Henry G., 333 Walnut, Phila., Pa.
Murphy, Jno. H., New Orleans, La.
**Payne & Joubert, 423 Carondelet, New Orleans, La.**
Pioneer Iron Works, 149 Pioneer, Brooklyn,
Pusey & Jones Co., Wilmington, Del. N. Y.
**Squier, Geo. L. Mfg. Co., Buffalo, N. Y.**
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
**Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.**

### 11181—Evaporators (Multiple Effects)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Baeuerle & Morris (Vacuum), 932 N Front, Phila., Pa.
Blymyer Iron Works Co. ("Cook"), Spring Grove av & Terrace pl, Cincinnati, O.
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Casey-Hedges Co., Chattanooga, Tenn.**
Champion Evaporator Co., Hudson, O.
Deeley, Robt. & Co., 29 B'way, New York
Dyer Co., Cleveland, O.

**GRISCOM-SPENCER CO., 90 West,** New York. (See adv. index & branch offices, end of book)

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**Kestner Evaporator Co., 333 Walnut, Phila., Pa.**
Kilby Mfg. Co., Cleveland, O.
Krajewski-Pesant Co., 21 State, New York
**Morris, Henry G. (Double & Single), 333 Walnut, Phila., Pa.**
Morris Engineering Co., 333 Walnut, Phila.,
Murphy, John H., New Orleans, La. Pa.
**Oat, Jos. & Sons (Copper & Iron), 230 Quarry, Phila., Pa.**
Payne & Jaubert, New Orleans, La.
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
**Pusey & Jones Co., Wilmington, Del.**
**Redfield, Robt. S. & Co., 90 West, New York. Factory: Elizabeth, N. J.**
**Smith, Samuel & Son Co., Paterson, N. J.**
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Stearns-Rogers Mfg. Co., Denver, Colo.
Sugar Apparatus Mfg. Co., 326 Chestnut, Phila., Pa.
Swenson Evaporator Co. ("Swenson"), Chicago, Ill.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
**Yaryan Co., 200 Fifth av, New York**
Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y
**WHEELER CONDENSER & ENGIN**eering Co. ("Wheeler"), Cartaret, N. J. (See adv. index & branch offices, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

### 11182—Feeders (Sugar Cane Carrier)

Boland Machine & Mfg. Co. ("Mallon"), New Orleans, La.
Nadler, Henry ("Walsh"), Plaquemine, La.

### 11183— Filters (Bag)

American Felt Co., Boston, Mass., & 110 E 13th, New York
**Blymyer Iron Works Co., Cincinnati, O.**
**Bonnot Company, Canton, O.**
Deeley, Robt. & Co., 29 B'way, New York
Gulf Bag Co., New Orleans, La.
Haubtman & Loeb Co., New Orleans, La.
**Kilby Mfg. Co., Cleveland, O.**
Morris, Henry G., 333 Walnut, Phila., Pa.
**Murphy, John H., Iron Works, 643 Magazine, New Orleans, La.**
Payne & Joubert, New Orleans, La.
**Squier, Geo. L. Mfg. Co., Buffalo, N. Y.**
**Wolf, Fred W. Co., 827 Rees, Chicago, Ill.**
**Wood, R. D. & Co., 400 Chestnut, Phila., Pa.**

### 11184—Filters (Mechanical) Sugar

**Kilby Mfg. Co. (For Sugar Refineries),** Cleveland, O.
Deeley, Robt. & Co., 29 B'way, New York
Dyer Co., Cleveland, O.
**Hygeia Filter Co., Detroit, Mich.**
Krajewski-Pesant Co., 21 State, New York
**Loomis-Manning Filter Co., Land Title bldg, Phila, Pa.**
Payne & Joubert, 423 Carondelet, New Orleans, La.
Perrin, Wm. R. & Co., 46th & Loomis, Chicago,
Shriver, T. & Co., Harrison, N. J. Ill.
Stearns-Rogers Mfg. Co., Denver, Colo.

### 11185— Furnaces (Bagasse)

Babcock & Wilcox Co., New Orleans, La.
Casey-Hedges Co., Chattanooga, Tenn.
Chattanooga Plow Co., Chattanooga, Tenn.
Coldwell-Wilcox Co., Newburgh, N. Y.
Deeley, Robt. & Co., 29 B'way, New York
Haubtman & Loeb Co., New Orleans, La.
Morris, Henry G., 333 Walnut, Phila., Pa.
Payne & Jolbert, New Orleans, La.
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Swoop, Julian M., New Orleans, La.

### 11186—Granulators (Sugar)

**Haubtman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.**
**Hersey Mfg. Co., 314 W 2d, Boston, Mass.**

### 11187— Heaters (Juice)

**Coldwell-Wilcox Co., Newburgh, N. Y.**
Deeley, Robt. & Co., 29 B'way, New York
**Haubtman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.**
Kilby Mfg. Co., Cleveland, O.
**Morris, Henry G., 333 Walnut, Phila., Pa.**
**Murphy, John H., 643 Magazine, New Orleans,** Payne & Joubert, New Orleans, La. **La.**
Pioneer Iron Works, 159 Pioneer, Brooklyn,
Sims Co. (Sugar), Erie, Pa. **N. Y.**
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Stearns-Rogers Mfg. Co., Denver, Colo.

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## 11188—Kilns (Lime, Sugar Refining)

Dyer Co., Cleveland, O.
Haubtman & Loeb Co. (Ltd.), New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Wolf, Fred. W. Co., 827 Rees, Chicago, Ill.

## 11189—Loaders (Sugar Cane)

Castagnos Cane Loader Co. (Ltd.), Donaldsonville, La.

**CHAIN BELT CO., Milwaukee, Wis.**
(See adv. index & branch offices, end of book)

## 11190— Mills (Sugar Cane)

Bahmann Iron Works Co., Cincinnati, O.
Bell, C. S. Co. (Crushers, Mills), Hillsboro, O.
Birmingham Machine & Foundry Co., Birmingham, Ala.
Blymyer Iron Works Co., Cincinnati, O.
Chattanooga Plow Co., Chattanooga, Tenn.
Coldwell-Wilcox Co., Newburgh, N. Y.
Columbus Iron Works Co., Columbus, Ga.
Deeley, Robt. & Co., 29 B'way, New York
Dyer Co., New England bldg, Cleveland, O.
Farrel Foundry & Machine Co., Ansonia, Conn.
Fulton Iron Works, St. Louis, Mo.
Golden's Foundry & Machine Co., Columbus, Ga.
Honolulu Iron Works Co., Honolulu, Hawaii.
**HOOVEN, OWENS, REUTSCHLER** Co., Hamilton, O. (See adv. index & branch offices, end of book)
Huntsville Foundry & Machine Works, Huntsville, Ala.
Kehoe Iron Works, Savannah, Ga.
Krajewski-Pesant Co., 21 State, New York
Lombard Iron Works & Supply Co., Augusta, Ga.
Morris, Henry G., 333 Walnut, Phila., Pa.
Payne & Joubert, New Orleans, La.
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
Pusey & Jones Co., Wilmington, Del.
Reading Iron Co., Reading, Pa.
**REEVES BROS. CO., Alliance, O.**
(See adv. index, end of book)
Rourke, John & Sons, Savannah, Ga.
Salem Iron Works (Steam, Water & Animal Power), Winston Salem, N. C.
Schofield, J. S. Sons Co., Macon, Ga.
Southern Plow Co., Columbus, Ga.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Standard Engineering Co. (To Order), Ellwood City, Pa.
Swoop, Julian M., New Orleans, La.
White, S. R. & Bro., Norfolk, Va.
Whitney Iron Works Co., New Orleans, La.

## Pans (Vacuum)

**(Pans, Vacuum, is Classified in Letter P)**

## Portable Railways

**(See Railways, Industrial & Portable)**

## 11191— Rollers & Pinions

Chester Steel Casting Co., Chester, Pa.
Newell Mfg. Co., 149 B'way, New York

## 11192—Shredders (Sugar Cane)

Newell Mfg. Co. ("National"), 149 B'way, New York

## Sugar Cane Unloading Apparatus & Conveyor

**(See Conveyors, Belt)**

## 11193—Sugar Plant Construction (Beet)

Dyer Co., Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
Oxnard Construction Co., 32 Nassau, New York
Stearns-Rogers Mfg. Co., Denver, Colo.

## 11194— Sulphur Machines

Deming Apparatus Co. (For Making Sulphur Compound), 93 Wall, New York
Krajewski-Pesant Co., 21 State, New York
Post, Edward C., Ann Arbor, Mich.

## 11195— Triturators

Coldwell-Wilcox Co., Newburgh, N. Y.

**(END OF SUGAR MACHINERY)**

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## 11196— Sugar Refineries

Alameda Sugar Co. (Beet Sugar), San Francisco, Cal.; Factory: Alvarado, Cal.
Alta (Cal.) Beet Sugar Co. (Beet), Hamilton City, Cal.
Amalgamated Sugar Co. (Beet), Ogden, Utah
American Beet Sugar Co., 32 Nassau, New York
American Sugar Refining Co., 117 Wall, New York
American Sugar Refining Co. (Standard Plant), Granite st, S B, Boston, Mass.
Arbuckle Bros., 71 Water, New York
California & Hawaiian Sugar Refining Co. (Beet Sugar), San Francisco, Cal. Factory at Crockett, Cal.
Carver County Sugar Co. (Beet), Chaska, Minn.
Chaparro Sugar Co. (Beet Sugar), 129 Front, New York.
Chippewa Sugar Co. (Beet), Milwaukee, Wis. Factory: Chippewa Falls, Wis.
Clinton Sugar Refining Co., Clinton, Iowa.
Cogswell, Frank R., New Orleans, La.
Colonial Sugars Co., 33 Wall, New York.
Continental Sugar Co. (Beet), Cleveland, Ohio. Factories at Fremont, Ohio, & Blissfield, Mich.
Corn Products Mfg. Co., 42 Madison, Chicago, Ill. Refinery: Davenport, Iowa.
Corn Products Refining Co., 26 B'way, New York. Refineries, Waukegan, Ill.; Granite City, Ill.
Cuban-American Sugar Co., 129 Front, New York
Cunningham Sugar Co., Sugarland, Tex.
Fagardo Sugar Co., 106 Wall, New York.
Federal Sugar Refining Co., 138 Front, New York; Refineries: Yonkers, N. Y.
Franklin Sugar Refining Co., Stock Exchange pl., Phila., Pa., & 19 E 2d, Cincinnati, O.
German-American Sugar Co. (Beet Sugar), West Bay City, Mich.
Great Western Sugar Co. (Beet), Denver, Colo. Factory: Loveland, Colo.
Guantanamo Sugar Co., 107 Front, New York.
Holland Sugar Co. (Beet), Holland, Mich.
Holly Sugar Co. (Beet), Holly, Colo.
Holly Construction Co. (Beet), Swink, Colo.
Honolulu Plantation Co., San Francisco, Cal.
Howell, B. H. Son & Co. (Beet Sugar), 129 Front, New York
Iowa Sugar Co. (Beet), Waverly, Ia.
Kellogg-Birge Co., Keokuk, Ia.
Knight Sugar Co. (Beet), Raymond, Alberta, Canada.
Lafayette Sugar Refining Co., Lafayette, La.
Lakeside Sugar Refining Co., Eagle Lake, Tex.
Los Alamitos Sugar Co. (Beet), Los Angeles, Cal.; Factory: Los Alamitos, Cal.
Lyons Beet Sugar Refining Co. (Beet), Lyons, N. Y.
McCahan, W. J. Sugar Refining Co., 101 S Front, Phila., Pa.
Menominee River Sugar Co. (Beet), Menominee, Mich.
Mercedita Sugar Co., 129 Front, New York
Michigan Sugar Co. (Beet), Saginaw, Mich.
Miles Planting & Mfg. Co., Burnside, La.
Mollenhauer Sugar Refining Co., Kent av c s 11th, Brooklyn, N. Y.
Mount Clemens Sugar Co. (Beet), Mount Clemens, Mich.
National Sugar Mfg. Co. (Beet), Sugar City, Colo.
National Sugar Refining Co., 129 Front, New York, & Yonkers, N. Y.
Ohio & Texas Sugar Co., Brownsville, Tex.
Ontario Sugar Co. (Beet), Toronto, Ont.; Factory at Berlin, Ont., Canada
Owosso Sugar Co. (Beet), Bay City, Mich. Factory: Owosso, Mich.
Pacific Sugar Corp'n (Beet), Los Angeles, Cal. Factory: Visalia, Cal.
Pope, Chas. (Beet), Riverdale, Chicago, Ill.
Revere Sugar Refinery, 2 Broad, Boston, Mass.
Rock County Sugar Co. (Beet), Janesville, Wis.
St. Louis Sugar Co. (Beet), St. Louis, Mich.
Segura Operating Co., Segura, La.
Snake River Valley Sugar Co. (Beet), Blackfoot, Idaho
Spreckles Sugar Co. (Beet), 227 Market, San Francisco, Cal. Factory: Spreckels, Cal.
Tuinucu Sugar Co., 112 Wall, New York.
Union Sugar Co. (Beet), 268 Market, San Francisco, Cal. Factory: Betteravia, Cal.
United States Sugar Co. (Beet Sugar), Madison, Wis.
United States Sugar & Land Co. (Beet), Garden City, Kan.
Wallaceburg Sugar Co. (Beet), Wallaceburg, Ont., Canada.
Warner Sugar Refining Co., 124 Front, New York.
Washington State Sugar Co. (Beet), Spokane, Wash. Factory at Waverly.
Waterhouse Rice & Sugar Co., Glen Flora, Tex.
West Bay City Sugar Co. (Beet), West Bay City, Mich.
West Michigan Sugar Co. (Beet), Charlevoix, Mich.
Western Sugar Refining Co., San Francisco, Cal.
Western Sugar & Land Co. (Beet), Grand Junction, Col.
Wisconsin Sugar Co. (Beet), Menomonee Falls, Wis.

## Suit Cases

(See Traveling Bags & Suit Cases)

## Sulphate of Alumina

(See Alumina)

## 11197—Sulphate of Ammonia

American Agricultural Chemical Co., 2 Reutor, New York
American Coal Products Co., 17 Battery pl., New York
Armour Fertilizer Works, Chicago, Ill.
Baker, H. J. & Bro. (Imported), 100 William, New York
Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry rd, Phila., Pa.
Buffalo Fertilizer Co., Buffalo, N. Y.
Cochrane, Chemical Co., Boston, Mass.
Ferguson Bros., Phila., Pa.
General Chemical Co., 25 Broad, New York
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Heller, Hirsh & Co. (Importers & Brokers), 62 William, New York
Lang, J. M. & Co. (Brokers), Savannah, Ga.
Listers' Agr'l Chemical Works, ft. W. 39th, New York
Munro, Robt. A. & Co. (Brokers), 31 Liberty, New York
New England Gas & Coke Co., Boston, Mass.
New Orleans Acid & Fertilizer Co., New Orleans, Ga.
Nitrate Agencies Co. (Brokers), 24 Stone, New York
Peters, White & Co. (Importers), 92 William, New York
Robertson, Jenkins M. (Baker), Charleston, S. C.
Standard Guano & Chemical Works, New Orleans, La.
Tennant, C., Sons & Co. (Importers), 76 William, New York
Walter, Edw. J. Co. (Brokers), Baltimore, Md.
White, Thos. H. & Co. (Brokers), Baltimore, Md.

## 11198—Sulphate of Copper

General Chemical Co. (Or Blue Vitriol), 25 Broad, New York
Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.

## Sulphate of Iron

(See Copperas)

## 11199— Sulphate of Lime

**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Gabriel & Schall, 205 Pearl, New York
Higginson Mfg. Co., Newburgh, N. Y.
Scheel, Wm. H., 159 Maiden la, New York
Western Chemical Mfg. Co. (Bi-Sulphate of Lime), Denver, Colo.

## 11200— Sulphate of Soda

Cochrane Chemical Co., Boston, Mass.
Contact Process Co., Buffalo, N. Y.
General Chemical Co. (Also Calcined Sulphate & Concentrater), 25 Broad, New York
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Heller, Hirsh & Co., 62 William, New York
Jarecki Chemical Co., Sandusky, O.
Merrimac Chemical Co., Boston, Mass.
Powers, Weightman & Rosengarten Co., 9th & Parish, Phila., Pa.
St. Louis Chemical Co., St. Louis, Mo.
Scheel, Wm. H. (Refined, etc.), 159 Maiden la, New York
Standard Guano & Chemical Mfg. Co., New Orleans, La.
Thomsen Chemical Co., Race & Winder, Baltimore, Md.
Western Chemical Mfg. Co., Denver, Colo.

## 11202— Sulphate of Zinc

Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Sandoval Zinc Co., 410 N Peoria, Chicago, Ill.
Scheel, Wm. H. (Foreign), 159 Maiden la, New York
Sholes, Chas. E. C., 164 Front, New York
Thomsen Chemical Co., Baltimore, Md.

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## 11203— Sulphide of Iron

Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.

## 11204— Sulphide Pulp

Beebe, Ira L. & Co., 132 Nassau, New York
Castle, Gottlieb & Overton, 200 5th av, New York
Sergeant, E. M. Co., 132 Nassau, New York

## 11205— Sulphide Soda

Cochrane Chemical Co., Boston, Mass.
Thomsen Chemical Co., Baltimore, Md.

## 11206—Sulphite Plant Equipment

Stebbins Engineering & Mfg. Co., Watertown, N. Y.

## 11207— Sulphite Soda

Butterworth-Judson Co., Newark, N. J.

## 11208— Sulphur Dioxide

Central Hudson Chemical Co., Fishkill-on-Hudson, N. Y.

## 11209— Sulphur (Refined)

Battelle & Renwick, 163 Front, New York
White, T. & S. C. Co., 100 William, New York

## 11210—Sulphur & Brimstone

Battelle & Renwick (Flour, Sublimed & Roll), 163 Front, New York
Beggs, E. J. & Co., 92 William, New York
Commercial Acid Co., St. Louis, Mo.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
General Chemical Co. (Roll Brimstone, Flour & Flowers of Sulphur), 25 Broad, New York
Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Hollingworth & Peterson, Lafayette bldg, Phila., Pa.
Lang, J. M. & Co. (Brokers), Savannah, Ga.
Mechling Bros. Mfg. Co. (Powdered), 940 N 9th, Phila, Pa.
National Sulphur Co., 163 Front, New York
Scheel, Wm. H. (Sulphur), 159 Maiden la, New York
Sholes, Chas. E. Co., 164 Front, New York
Thomsen Chemical Co., Baltimore, Md.
Union Sulphur Co. (High Grade Brimstone), 82 Beaver, New York. Mines: Colcasieu, La.
White, T. & S. C. Co. (Flowers of Sulphur; also Flour Sulphur), 100 William, New York

## 11211— Sumac

Baker, W. W. Tanning Co., Hallsboro, Va.
Hurkamp, John G. Co., Fredericksburg, Va.
Landram Bros., Charlottesville, Va.
Knox, Robert T. & Bro., Fredericksburg, Va.
Marden, Orth & Hastings, Boston, Mass.
Moore, Warner & Co., Richmond, Va.
National Sumac & Herb Co., Henderson, N. C.
Shotwell, A. D. & Co., Manchester, Va.

## 11212—Summer Houses or Arbors

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, Ohio
Howard & Morse, 45 Fulton, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON CO., 100** Lake, Chicago, Ill. (See adv. index, end of book)
Westervelt, A. B. & W. T., 102 Chambers, New York

## 11213— Sun Dials

Gardam, Wm. & Son, 80 Park pl, New York
**GORHAM CO. ARCH'L BRONZE** (Metal), 5th av. & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)
Janusch Mfg. Co., 481 E 140th, New York
Jordan, Adolph M., Cincinnati, O.
Salo Art Metal Co., Binghamton, N. Y.

## 11214—Sun & Heliographic Printing

**ENGINEERING AGENCY, Monadnock blk, Chicago, Ill.** (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
**MAKEPEACE, B. L., 387 Washington, Boston, Mass.** (See adv. index, end of book)
N. Y. Blue Print Co., 60 Reade, New York
**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)
**SOLTMANN, E. G.** (Also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 11215—Superheaters (Steam)

Babcock & Wilcox Co., 85 Liberty, New York
**BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.** (See adv. index, end of book)
Heine Safety Boiler Co., St. Louis, Mo.
Hussey, McCann & Co., 87 Warren, New York
Mitchell, W. K. & Co. ("Ferguson"), Ellsworth, cor. S. 29th, Phila., Pa.
Mosher Water Tube Boiler Co. ("Mosher"), 30 Church, New York
Parker Boiler Co., Penna. bldg., Phila., Pa.
Potter Separator Co., 39 Cortlandt, New York
Power Specialty Co. ("Foster," Made of Wrought Steel Tube, Covered with Cast Iron Flanges), 111 B'way, New York
Providence Engineering Works ("Schmidt"), Providence, R. I.
Thacher, Geo. H. & Co., Albany, N. Y.
United Gas Improvement Co. ("Standard Double"), Phila., Pa.
**WESTINGHOUSE MACHINE CO., Pittsburg, Pa.**

## 11216— Superphosphates

American Agricultural Chemical Co. (Concentrated), 2 Rector, New York
Munro, Robt. A. & Co., 31 Liberty, New York

## 11217—Supporters (Pole)

Columbus Handle & Tool Co., Columbus, Ind.
Dicke Tool Co., Downers Grove, Ill.
Klein, Mathias & Sons ("Klein's Metal"), 562 W Van Buren, Chicago, Ill.
Meckel, Fred L., 11 E 13th, Chicago, Ill.

## 11218—Supports (Shelf)

Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Grand Rapids Hdw. Co., Grand Rapids, Mich.
Hardware Supply Co., Grand Rapids, Mich.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Reading Hardware Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Stover Mfg. Co., Freeport, Ill.

## 11219— Surfaces (Metal)

Peckham Mfg. Co. (For Dry Barrel Polishing), Newark, N. J.
St. Louis Surfacer & Paint Co. ("Koons," "Metalsteel"), St. Louis, Mo.

## 11220—Surveyors' Field & Office Supplies

**ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa.** (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock blk, Chicago, Ill.** (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington, Boston, Mass.** (See adv. index, end of book)
**SOLTMANN, E. G.** (Also Blue or Black Prints Made from Large Tracings of County & Other Maps), 134 W 29th, New York. (See adv. index, end of book)

## 11220a—Swage Block Stands

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 11221— Swage Blocks

American Foundry & Mfg. Co., St. Louis, Mo.
Fisher & Norris, Trenton, N. J.
Huntsville Foundry & Machine Works, Huntsville, Ala.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Indiana Foundry Co., Indiana, Pa.
South Bend Foundry Co. (Cast Iron), South Bend, Ind.
Southern Skein & Foundry Co., Chattanooga, Tenn.
Swett, A. L. Iron Works, Medina, N. Y.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 11222—Swages (Top, Bottom, Etc.)

Ajax Mfg. Co., Pittsburg, Pa.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Champion Tool Co. ("Champion"), Meadville, Pa.
Disston, Henry & Sons, Inc., Tacony, Phila., Pa.
Evansville Tool Works, Evansville, Ind.
Heller Bros. Co., Newark, N. J.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.

## 11223—Sweepers (Carpet)

Bissell Carpet Sweeper Co. ("Bissell's"), Grand Rapids, Mich.
Goshen Sweeper Co., Grand Rapids, Mich.
National Sweeper Co. ("Monarch," "Martha Washington," "National Queen"), Newark, N. J.
Streater Metal Stamping Co. ("Sterling," "Streator," "Eureka"), Streator, Ill.
Vincent, Frank J., Little Falls, N. Y.

## Sweepers (Carpet, Vacuum)

(See Vacuum Cleaners, Hand & Power)

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## Sweepers (Hand)
(See Street Sweepers, Hand)

## Sweepers (Street Railway)
(See Street Railway Sweeping Machines)

## 11224— Swings (Barrel)
Leavitt Machine Co., Orange, Mass.

## 11225—Swings (Circle)
Federal Construction Co., 108 Dearborn, Chicago, Ill.

## 11226— Swings (Lawn)
American Machine Co., Newark, Del.
American Mfg. & Novelty Co., Erie, Pa.
Anderson Company, St. Paul, Minn.
Babcock Mfg. Co. ("Otsego"), Leonardsville, New York
Bany & Hadley Mfg. Co., Delphos, O.
Barley, Thos. K. ("Bible"), Sedalia, Mo.
Batavia Wind Mill Co. (Steel), Batavia, Ill.
Batcheller, H. F., Rock Falls, Ill.
Bausman, D. H. ("Bausman" Steel), Bausman, Pa.
Biscoe Bending & Chair Mfg. Co., Biscoe, N.C.
Border City Mfg. Co., Border City, N. Y.
Bristol & Gale Co., 158 W North Water, Chicago, Ill.
Brown Bros. Mfg. Co. ("Queen of the Lawn"), Nappanee, Ind.
Buch's, A., Sons Co. ("Eagle," Steel Reclining & Adjustable Seat, etc.), Elizabethtown, Pa.
Bushnell Tank Works, Bushnell, Ill.
Canfield, H. C. ("Home Comfort," Lawn or Porch), Batesville, Ind.
Challenge Co. ("Red Star," "Snow," Galvanized Steel), Batavia, Ill.
Champe, Frank N. ("Peoples Delight"), Cambridge City, Ind.
Covington Mfg. Co., Covington, O.
Dain Mfg. Co. ("Dain's Alaska"), Ottumwa, Iowa
Dowden Mfg. Co., Prairie City, Ia.
Dublin Agricultural Works, Dublin, Ind.
Eagle Mfg. Co., Elizabethtown, Pa.
Eureka Mower Co. ("Eureka"), Utica, N. Y.
Fairfield Lawn Swing Co. ("Fairfield"), Brunswick, Me.
Fleming & Sons Mfg. Co. ("Fleming"), Huntsville, Mo.
Forbes Mfg. Co. ("Mogul"), Hopkinsville, Ky.
Fry Bros., Richmond, Ind.
Glascock Bros. Mfg. Co., Muncie, Ind.
Goshen Mfg. Co., Goshen, Ind.
Greene Mfg. Co., Springfield, O.
Haggard & Marcusson Co. ("Comfort Swing Chair"), 422 S Canal, Chicago, Ill.
Haish Mfg. Co., De Kalb, Ill.
Hay Tool Mfg. Co. ("Iowa"), Council Bluffs, Iowa
Hayes Pump & Planter Co., Galva, Ill.
Horizontal Swing Co. ("Carrollton"), Carrollton, Mo.
International Steel & Iron Construction Co. ("Bersenberger's" Iron & Steel), Evansville, Ind.
Iona Wagon Co. ("Bible"), Iona, Mich.
Joes, C. H., Sterling, Ill.
Kalamazoo Sled Co., Kalamazoo, Mich.
Keller Mfg. Co. ("Keller"), Sauk Center, Minn.
Kelly Foundry & Machine Co. ("Baby"), Goshen, Ind.
Kelly, O. S. Mfg. Co., Iowa City, Ia.
Keystone Farm Machine Co. ("Slumberine"), York, Pa.
Lehman Mfg. Co., Beaumont, Tex.
Lewis-Gear Mfg. Co. (Porch & Lawn), Ypsi-
McCall Mfg. Co., Moberly, Mo. lanti, Mich.
MYERS, F. E. & BRO. ("Ashland" Low Down Roller), Ashland, O. (See adv. index & branch offices, end of book)
Miller Bros., Rochester, Mich.
Moulton, C. W. H. & Co. ("New England"), Somerville, Mass.
Neff Mfg. Co., Cowan, Ind.
Normandin, N. L. & Co., Plano, Ill.
Ohio Rake Co. ("Artic"), Dayton, O.
Purington Mfg. Co., Des Moines, Ia.
Reed & Rogers Mfg. Co., Vernon, Ind.
Scott, Jno. F., Goshen, Ind.
Sears Mfg. Co., Plano, Ill.
Sechler, D. M. Carriage Co., Moline, Ill.
Smith Fence & Iron Co. (Steel), Waynesboro, Pa.
Smith Mfg. Co. (Steel), Waynesboro, Pa.
Smith, T. & H. & Co., Pekin, Ill.
Southern Plow Co. ("Perfection Hercules"), Columbus, Ga.
Specialty Mfg. Co. ("Columbia"), Titusville, Pa.
Superior Hay Stacker Mfg. Co. (Superior Horizontal), Linneus, Mo.
Thompson, O. E. & Son (Porch Swings), Ypsilanti, Mich.
Thornburgh Mfg. Co. (Folding), Bowling Green, Ohio
Union Mfg. Co., Toledo, O.
Wayne Works ("Richmond Champion"), Richmond, Ind.
Western Wheel Barrow & Mfg. Co. ("Monarch"), Kansas City, Kans.
Weston Paper & Mfg. Co. ("Premier" Swing & Hammock Combined), Dayton, O.

## 11226a— Swings (Porch)
MYERS, L. E. & BRO. ("Myers"), Ashland, O. (See adv. index & branch offices, end of book)

## 11227—Switch Bars (Hard Fibre)
DELAWARE HARD FIBRE CO., Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
PARKER, J. C. & SONS FIBRE CO., New Castle, Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 11228—Switchboard Details
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 11229—Switchboards (Light & Power)
Adam, Frank Electric Co. ("F.-A."), St. Louis, Mo.
Adams-Bagnall Electric Co., Cleveland, O.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Almstead Mfg. Co., Rochester, N. Y.
American Electric Switch Co., Springfield, Mass.
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Andrae, Julius & Sons Co., Milwaukee, Wis.
Bissell, F. Co., Toledo, O.
Blake Electric Co. ("Macfarlane"), Boston, Mass.
Bossert Co., Utica, N. Y.
Burke Electric Co., Erie, Pa.
Butte Engineering & Elec. Co., San Francisco, Cal.
Cleveland Switchboard Co., Cleveland, O.
Condit Electrical Mfg. Co., Boston, Mass.
Crocker-Wheeler Co., Ampere, N. J.
Crouse-Hinds Co., Syracuse, N. Y.
Cuthbert Electrical Mfg. Co., 725 Fulton, Chicago, Ill.
Dean Electric Co., Elyria, O.
Drendell Electric & Mfg. Co., San Francisco, Cal.
Electrical Mfg. Co., Cleveland, O.
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fisher Electrical Works, Detroit, Mich.
Flint-Lomax Electric & Mfg. Co., Denver, Colo.
Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
Garwood Electric Co., Garwood, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
General Railway Signal Co., Rochester, N. Y.
Heinemann, Geo. & Co., 500 Girard av, Phila., Pa.
Hewitt & Warden, Newburgh, N. Y.
Holtzer-Cabot Electric Co., Brookline, Mass.
IDEAL ELECTRIC & MFG. CO., Mansfield, O. (See adv. index & branch offices, end of book)
Interstate Electric & Mfg. Co., Sioux City, Ia.
Kinetic Electric Co., 16 S Schell, Phila., Pa.
Krantz, H. Mfg. Co. ("Jones"), 160 7th, Brooklyn, N. Y.
Kurz & Root, Appleton, Wis.
Lang, J. Elec. Co., 423 N Lincoln, Chicago, Ill.
Leonard-Bundy Elec. Co., Cleveland, O.
McCarthy Bros. & Ford, Buffalo, N. Y.
Machen & Mayer Electrical Co., 12th & Buttonwood, Phila., Pa.
Metropolitan Switchboard Co., Long Island City, N. Y.
Minnesota Electric Co., Minneapolis, Minn.
Mutual Electric & Machine Co. (A. C. & D. C.), Wheeling, W. Va.
National Switchboard Co., 534 W 58th, New York
Newgard, Henry & Co. ("Newgard"), 953 Washington boul, Chicago, Ill.
Newport Electric Mfg. Co., Newport, Ky.
Nyelee Switch Board Co., 422 E 53d, New York
Penn. Electrical & Mfg. Co., Irwin, Pa.
Penrhyn Slate Co. (Slate), 255 E 138th, New York
Phila. Elec. Construction Co., 904 Filbert, Pa.
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
Pittsburg Electrical & Machine Works, Pittsburg, Pa.
Post Glover Electric Co., Cincinnati, O.
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Robb & Blackmer, 129 Pearl, Boston, Mass.
Rochester Switchboard Co., Rochester, N. Y.
Roller-Smith Co., 203 B'way, New York. Works: Bethlehem, Pa.
Royse Electric Co., Indianapolis, Ind.
Sackett, H. I. Elec. Co., Buffalo, N. Y.
Schaefer Bros. Co., 1111 Julius, Chicago, Ill.
Stecker Electric & Machine Co., Detroit, Mich.
Steel, W. M. Switchboard Co., Worcester, Mass.
Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.
Taunton-New Bedford Copper Co., Taunton, Mass.
Tower-Binford Electric & Mfg. Co., Richmond, Va.
Triumph Electric Co., Cincinnati, O.
Troy Electrical Co., Troy, N. Y.
Trumbull Electric Mfg. Co., Plainville, Conn.
Wagner Electric Mfg. Co. (Also for Street R'ys & Isolated Plants), St. Louis, Mo.
Walker Electric Co. (Slate & Marble), 2338 Noble, Phila., Pa.
Walls, Owen & Stambach Co. (Soapstone), 11th & Ridge av, Phila., Pa.
Wesco Supply Co. ("Davis"), St. Louis, Mo.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Western Insulation Co., 614 W Adams, Chicago, Ill.
WESTINGHOUSE ELEC. & MFG. CO., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
White, H. P. Co. ("White"), Wayne Junction, Phila., Pa.
Worcester Electric & Mfg. Co., Worcester, Mass.
Wurdack, Wm. Electric Mfg. Co., St. Louis, Mo.

## 11230—Switchboards (Storage Battery)
FAIRBANKS, MORSE & CO., 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 11231—Switchboards (Telephone)
(See also Telephones & Apparatus)
Acme Telephone & Mfg. Co., Albia, Iowa
American Automatic Telephone Co., Urbana, O.
American Electric Telephone Co. ("American," "1900," "Express"), 64th & State, Chicago, Ill.
Andrae, Julius & Sons Co., Milwaukee, Wis.
Automatic Appliance Co., Boston, Mass.
Automatic Electric Co., Morgan & Van Buren, Chicago, Ill.
B. R. Electric & Telephone Mfg. Co., Kansas City, Mo.
Central Telephone & Electric Co. ("Primo"), St. Louis, Mo.
Century Telephone Const. Co., Buffalo, N. Y.
Chicago Telephone Supply Co., Elkhart, Ind.
Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.
Couch, S. H. Co., Boston, Mass.
Dean Electric Co., Elyria, O.
De Veau Telephone Mfg. Co., 474 18th, Brooklyn, N. Y.
Electrical Engineering Co., Minneapolis, Minn.
Electric Goods Mfg. Co. ("Rotokoll," "Annunciphone"), Boston, Mass.
Ericsson, L. M. Telephone Mfg. Co., Buffalo, N. Y.
Farr Telephone & Const. Supply Co., 33 S Clinton, Chicago, Ill.
Garl Electric Co., Akron, O.
Hipwell Mfg. Co., 831 North av, Allegheny, Pa.
Holtzer-Cabot Electric Co., Brookline, Mass.
Kellogg Switchboard & Supply Co. ("Express"), Congress & Green, Chicago, Ill.
Kusel Telephone & Elec. Supply Co., St. Louis, Mo.
Loeffler, Louis J., 20 Fulton, New York
Long Distance Telephone Mfg. Co., South Bend, Ind.
Menominee Elec. Mfg. Co., Menominee, Mich.
Minnesota Electric Co., Minneapolis, Minn.

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Monarch Telephone Mfg. Co., 1009 Washington boul, Chicago, Ill.
North Electric Co., Cleveland, O.
Russell Elec. Co., Danbury, Conn.
Standard Telephone Mfg. Co., Portsmouth, Ohio
Sterling Elec. Co., Lafayette, Ind.
Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.
Sumter Telephone Mfg. Co., Sumter, S. C.
Utica Fire-Alarm Telegraph Co., Utica, N. Y.
Viaduct Electric Co., Relay, Md.
Viaduct Co., Relay, Md.
Vote-Berger Co., La Crosse, Wis.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.

## 11232—Switchboards (Theatre)

Bissell, F. Co., Toledo, O.
Globe Electric Specialty Co., 363 W 42d, New York
Menchen, Jos. Electrical Co., 360 W 50th, New York
Pennefather, J. S., 105 W 39th, New York
Steel, W. M. Switchboard Co., Worcester, Mass.
Universal Elec. Stage Lighting Co. ("Kiegel"), 1393 B'way, New York

## 11233—Switchboards (Time, Automatic)

Bissell, F. Co. ("Security"), Toledo, O.

## 11233a—Switch Cases, Caps & Bases

Scranton Button Co. (Electroid Confined Type for Switches), Scranton, Pa.

## 11234—Switch Handles (Wood)

(See also Handles, Various Kinds)

Narragansett Machine Co., Providence, R. I.
Novelty Turning Co. (For Electrical Switches), Norway, Me.

## Switch Locks (Railway)

(See Locks, Car & Switch)

## 11235— Switch-Points

Economy Separable Switch Point Co. ("Palmer Economy," Separable), Louisville, Ky.
Pennsylvania Steel Co. ("Manard," Right Hand), 1421 Chestnut, Phila., Pa.

## Switch Stands

(See Switches, Switch Stands & Fixtures)

## 11236—Switches (Automatic)

Automatic Switch Co. ("Whittingham" Quick Break Tank Switch, etc.), 131 Liberty, New York
**ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv index. & branch offices, end of book)**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Sechrist, Albert Mfg. Co. ("The Sechrist"), 1033 16th, Denver, Colo.

## 11237—Switches (Automatic Door)

**HART MFG. CO. ("Diamond H"), 103 Allyn, Hartford, Conn.** (See adv. index & branch offices, end of book)

## 11238—Switches (Automatic Railroad)

Buda Co., Railway Exch. bldg, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
N. Y. Switch & Crossing Co., Hoboken, N. J.
Penna. Steel Co., 1421 Chestnut, Phila., Pa.
Ramapo Iron Works, Hilburn, N. Y.
Safety Switch & Signal Co. (Electric Watertight Traction), 2 Rector, New York
Sheffield Car Co., Three Rivers, Mich.
Wharton, Wm. Jr. & Co., 25th & Washington, Phila., Pa.

## 11239—Switches (Automobile)

Acorn Brass Mfg. Co. (Lock), Aurora, Ill.
American Coil Co. (Electric), Foxboro, Mass.
Auto Lock Plug Co. (Lock), 31 Nassau, New York
Connecticut Telephone & Electric Co. (Inc.) (Electric), Meriden, Conn.
Dayton Electrical Mfg. Co. ("Dayton"), Dayton, O.
**EDWARDS & CO. (Electric), Park av & 144th, New York. (See adv. index, end of book)**
Eldredge Electric Mfg. Co. (Electric), Springfield, Mass.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hart & Hegeman Mfg. Co. (Electric), Hartford, Conn.
Jacobson-Brandow Co., Pittsfield, Mass.
Lemke Electric Co., Milwaukee, Wis.
McKibben, G. N. Mfg. Co. (Electric), South Norwalk, Conn.
**MORSE, FRANK W., 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)
Perfection Supply Co. (Electric), 61 Park pl, New York
Pittsfield Spark Coil Co. (Electric & Lock), Dalton, Mass.
Seidler-Miner Electric Co. (Electric), Detroit, Mich.
Specialty Mfg. Co. ("Thompson," Electric), S. Norwalk, Conn.
Splitdorf, C. F. (Electric), 1679 B'way, New York
Trumbull Electric Mfg. Co. (Electric), Plainville, Conn.
Utility Co. (Electric), 636 W 44th, New York
Weeber, C. F. Mfg. Works (Electric), Albany, N. Y.

## 11240—Switches (Battery)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Knoblock, Heideman Mfg. Co., South Bend, Ind.

## 11241—Switches (Canopy)

Columbia Mahine Works & Malleablee Iron Co., 269 Chestnut, Brooklyn, N. Y.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 11242— Switches (Coil )

American Coil Co. ("American" for Dash Coils & Marine Work), Foxboro, Mass.
Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.
Pittsfield Spark Coil Co., Dalton, Mass.

## Switches (Derailing)

(See Derailers)

## 11243—Switches (Float, Electric)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York** (See adv. index & branch offices, end of book)
Independent-Electric Mfg. Co., Milwaukee, Wis.

## 11244—Switches (Flush, Push Button)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Metropolitan Switchboard Co. (Can Be Replaced without Disconnecting), Long Island City, N. Y.
**MORSE, FRANK W. ("Morse Eureka"), 516 Atlantic av, Boston, Mass.** (See adv. index, end of book)

## 11245—Switches (Fused Service)

Detroit Fuse & Mfg. Co. ("Detroit"), Detroit, Mich.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
White, H. P. Co., Wayne Junction, Phila., Pa.

## 11246—Switches (High Voltage)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices. end of book)
**Eureka Tempered Copper Works, North East, Pa.**
**Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.**
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Walker Electric Co., 2338 Noble, Phila., Pa.
**WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)**

## Switches (Industrial Railway)

**(See Railways, Industrial & Portable)**

## 11247—Switches (Interlocking)

American Interlocking Switch Co.,
Cleveland Frog & Crossing Co., Cleveland, O.
Foster, Frank M. ("Foster"), Columbus, O.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Morden Frog & Crossing Works, Commercial Bank bldg, Chicago, Ill.
**UNION SWITCH & SIGNAL CO., THE,** Swissvale, Pa., 143 Liberty, New York, & Monadnock blk, Chicago, Ill.


# "DIAMOND H" SWITCHES

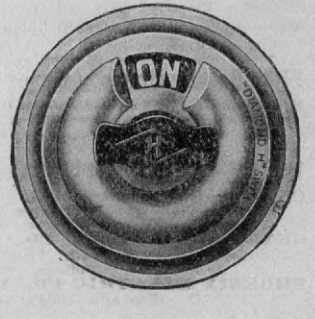



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## 11248—Switches (Knife)

Adam, Frank Electric Co. ("Standard"), 914 Pine, St. Louis, Mo.
American Electric Switch Co., Springfield, Mass.
Anderson, A. & J. M. Mfg. Co., Boston.
Arrow Electric Co., Hartford, Conn.
Banner Electric Co., Youngstown, O.
Barkelew Elec. Mfg. Co. ("Premo," 25 to 2,000 Amperes," "Star," 3 to 600 Amperes"), Middletown, O.
Bossert Co., Utica, N. Y.
Brady, T. H., New Britain, Conn.
Bryant Electric Co., Bridgeport, Conn.
Cleveland Sitwchboard & Elec. Mfg. Co., Cleveland, O.
Consolidated Car Heating Co. (For Car Heat, Light, "Quick Brake"), 149 B'way, New York, & Albany, N. Y.
Crescent Electric & Mfg. Co., Pittsburg, Pa.
Crouse-Hinds Co. (Alsa Radial), Syracuse, N. Y.
Cutter Electrical & Mfg. Co., 19th & Hamilton, Phila., Pa.
**ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)**
Electro Dynamic Co., Bayonne, N. J.
Erner Electric Co., 62 Public sq, Cleveland, O.
Eureka Tempered Copper Works ("The Eclipse," "Favorite," "Economic" & "Eureka"), Northeast, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Heinemann, Geo. M. & Co., 500 Girard av, Phila., Pa.
Helios Mfg. Co., Bridesburg, Phila., Pa.
Hyer-Sheehan Elec. Motor Co., Newburgh, N. Y.
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Lang, J. Elec. Co., 423 N Lincoln, Chicago, Ill.
Leonard-Bundy Electric Co., Cleveland, O.
Lundin Electric & Machine Co., Boston, Mass.
McCarthy Bros. & Ford, Buffalo, N. Y.
Manhattan Electrical Supply Co., 32 Cortlandt, New York
Metropolitan Switch Board Co., Long Island City, N. Y.
Mutual Electric & Machine Co. (All Copper), Wheeling, W. Va.
New York Switchboard & Mfg. Co., 516 W 36th, New York
Novelty Electric Co., 54 N 4th, Phila., Pa.
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Parke, Jno. Y. & Co., 728 Cherry, Phila., Pa.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Peru Electric Co., Peru, Ind.
Post-Glover Electric Co., Cincinnati, O.
Pringle Electric Mfg. Co., 1906 N 6th, Phila., Pa.
P.-R. Mfg. Co., Detroit, Mich.
Rohn, Geo. F., Milwaukee, Wis.
Springfield Electric Co., Springfield, Mass.
Steel, W. M. Switchboard Co., Worcester, Mass.
Taunton-New Bedford Copper Co., Taunton, Mass.
Tower-Binford Electric & Mfg. Co., Richmond, Va.
Troy Electrical Co., Troy, N. Y.
Trumbull Electric Mfg. Co. (Also Baby Knife), Plainville, Conn.
Wagner Electric Mfg. Co., St. Louis, Mo.
Walker Electric Co., 2338 Noble, Phila., Pa.
Wesco Supply Co. ("Davis"), St. Louis, Mo.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
White, H. P. Co. ("White"), Wayne Junction, Phila., Pa.
White, J. H. Mfg. Co., 111 N 3rd, Brooklyn, N. Y.
Worcester Electric Mfg. Co., Worcester, Mass.
Wurdack Wm., 19 S 11th St. Louis, Mo.
York Electric & Machine Co., York, Pa.

## 11248a—Switches (Lever)

**MORSE, FRANK W. ("Keystone"),** 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

## 11249—Switches (Limit)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)

## 11250—Switches (Magnetic)

Automatic Switch Co., 131 Liberty, New York
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. Co., Cleveland, O.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

## 11251—Switches (Master)

**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 11251a—Switches (Mine)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 11252—Switches (Oil Break)

Century Electric Construction Co., San Francisco, Cal.
Condit Electrical Mfg. Co. ("The Elden," Pneumatic), Boston, Mass.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Hartman Circuit Breaker Co. (For High Tension Service), Mansfield, O.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Kelman Electric & Mfg. Co., Los Angeles, Cal.
Mutual Electric & Machine Co., Wheeling, W. Va.
Pacific Electric & Mfg. Co., San Francisco, Cal.
**PHOENIX ELECTRIC CO., Mansfield, Ohio.** (See adv. index, end of book)
**WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)**
Worcester Electric Mfg. Co., Worcester, Mass.

## 11253—Switches (Overhead)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 11254—Switches (Plug)

Motsinger Device Mfg. Co. ("Motsinger Faultless"), Lafayette, Ind.

## 11254a—Switches (Push Button)

(See Switches, Snap & Push)

## 11255—Switches (Reversing Motor)

Automatic Switch Co. ("Whittingham," for Elevators, etc.), 131 Liberty, New York
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC CONTROLLER & MFG. Co., Cleveland, O.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**HART MFG. CO. ("Diamond H"), 103** Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)
**IDEAL ELECTRIC & MFG. CO.,** Mansfield, O. (See adv. index & branch offices, end of book)
**PHOENIX ELECTRIC CO., Mansfield, O.** (See adv. index, end of book)

## 11256—Switches (Rotary Flush & Push Button)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**HART MFG. CO. ("Diamond H"), 103** Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)

## 11257—Switches (Snap, Ordinary)

Arrow Electric Co., Hartford, Conn.
Bryant Electric Co., Bridgeport, Conn.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**HART MFG. CO. ("Diamond H"), 103** Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.

## 11258—Switches (Snap & Push)

Arrow Electric Co., Hartford, Conn.
Austin, M. B. & Co. (Push), 700 W Jackson boul, Chicago, Ill.
Bryant Electric Co. (Snap), Bridgeport, Conn.
Cowles, C. & Co. (Push Button), New Haven, Conn.
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Cutter Electrical & Mfg. Co. ("C. S."), 19th & Hamilton, Phila., Pa.
Flint-Lomax Electric Mfg. Co. (Snap & Push), Denver, Colo.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hart & Hegeman Mfg. Co. (Push & Snap), Hartford, Conn.
Machen & Mayer, Electrical Mfg. Co. ("M. & M."), 17th cor. Vine, Phila, Pa.
Metropolitan Switch Board Co., Long Island City, N. Y.
Perkins Elec. Ewitch Mfg. Co. (Snap), Bridgeport, Conn.

## 11259—Switches (Solenoid)

Automatic Switch Co., 131 Liberty, New York
**CUTLER-HAMMER MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Ideal Electric Mfg. Co., Mansfield, O.

## 11260—Switches (Split)

Ajax Forge Co., Hoyne & Blue Island avs, Chicago, Ill.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Cincinnati Frog & Switch Co., Cincinnati, O.
Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
Elliott Frog & Switch Co., East St. Louis, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Morden Frog & Crossing Works, Commercial Bank bldg, Chicago, Ill.
Peteler Car Co., Minneapolis, Minn.
Pettibone, Mulliken & Co. ("Transit," "Gauge" & "Channel"), 204 Dearborn, Chicago, Ill.
Ramapo Iron Works, Hillburn, N. Y.

## 11261—Switches, Switch Stands & Fixtures

(See also Frogs, Switches & Crossings; also Crossings; also Signals)

Ajax Forge Co., Hoyne & Blue Island avs, Chicago, Ill.
American Frog & Switch Co., Hamilton, O.
American Railway Signal Co., Cleveland, O.
American Valve & Meter Co. ("Anderson," Interlocking Switch Stands, & "Economy" Switch Stands), Cincinnati, O.
Atlas Railway Supply Co. ("Atlas"), Manhattan bldg, Chicago, Ill.
Bossert, W. F. Mfg. Co. (Tryall Lock Switch Stands), Utica, N. Y.
Buda Co. ("Ramsey" Automatic, etc.), Railway Exchange bldg, Chicago, Ill.
Central Track Supply Co., Springfield, O.

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Cincinnati Frog & Switch Co. (For Standard & Narrow Gauge Tracks), Cincinnati, O.
Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
Cleveland Railway Supply Co. ("Odenkirk," "Miller," "Switchstands"), Cleveland, O.
Conley Frog & Switch Co., Memphis, Tenn.
Elliott Frog & Switch Co., East St. Louis, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster, Frank M. ("Foster" Interlocking Switch Stands), Columbus, O.
Gregg Company (Ltd.) (For Industrial Railways), Lodi, N. J.
Gueber Engineering Co., Bethlehem, Pa.
**INDIANAPOLIS SWITCH & FROG Co., Springfield, O.**
Kilby Frog & Switch Co., Birmingham, Ala.
Lorain Steel Co., Johnstown, Pa.
McMyer-Interstate Co. (Switch Stands & Fixtures Only), 1799 Columbus rd, Cleveland, Ohio
Morden Frog & Crossing Works ("Union"), 115 Adams, Chicago, Ill.
New York Switch & Crossing Co., Hoboken, N. J.
Ohio Brass Co., Mansfield, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Penna. Steel Co., 1421 Chestnut, Phila., Pa.
Pettibone, Mulliken & Co. ("Banner," "Star," "Globe," "Crown" & "Axel" Switch Stands), 204 Dearborn, Chicago, Ill.
Ramapo Iron Works, Hillburn, N. Y.
Weir Frog Co., Cincinnati, O.
Wharton, Wm. Jr. & Co. (Inc.), 25th & Washington, Phila., Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 11261a—Switches (Tank)

**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)

## 11262—Switches (Time, Automatic)

American Electric Sign Co., Boston, Mass.
Anderson, A. & J. M. Mfg. Co. ("Anderson"), Boston, Mass.
Baird Electric Co., 3145 N Halstead, Chicago, Ill.
Bissell, F. Co. ("Security"), Toledo, O.
Campbell Electric Co. ("Campbell"), Lynn, Mass.
Cleveland Dental Supply Co. ("Chappel"), Cleveland, O.
Electric Motor & Equipment Co., Newark, N. J.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hartford Time Switch Co., 99 Warren, New York
Jarvis Engine & Machine Works, Lansing, Mich.
McGill Mfg. Co., Valparaiso, Ind.
Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
Monroe Electrical Mfg. Co., Monroe, Mich.
Redding, Jerome & Co., Boston, Mass.

## 11263—Switches (Trolley)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Railway Materials Co. ("Rymco"), Chicago, Ill.
Yale & Towne Mfg. Co., 9 Murray, New York

## Switches & Turn Tables (Mine)

(See Railways, Industrial & Portable)

## 11264— Swivels

American Iron & Steel Mfg. Co. (Pipe), Lebanon, Pa.
**AMERICAN WELL WORKS (Drilling),** Aurora, Ill. (See adv. index & branch offices, end of book)
Brooks, M. S. & Sons (Solid Flat, Nickle or Brass or Steel, etc.), Chester, Conn.
Dayton Malleable Iron Co., Dayton, O.
**DOBBIE FOUNDRY & MACHINE CO.** (Ball Bearing, etc.), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Hoopes & Townsend Co. (Closed or Pipe, Open or Arm, etc.), 1330 Buttonwood, Phila., Pa
Keystone Drop Forge Works (Or Rope Sockets. Open Arm), Chester, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
**NIAGARA FALLS METAL STAMPING** Works, Niagara Falls, N. Y. (See adv. index, end of book)
Rhode Island Tool Co., Providence, R. I.
Wilcox, Crittenden & Co. (Wrought Brass & Malleable), Middletown, Conn.
Wire Woods Co. (Steel Wire), Worcester, Mass.

## 11265—Swivels (Punching Bag)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

## 11266— Swivels (Snap)

Wire Goods Co. (Steel Wire), Worcester, Mass.

## 11266a— Synchroscopes

**WESTINGHOUSE ELECTRIC & MFG. Co.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Newark, N. J.

## 11267— Syphons (Acid)

Eynon-Evans Mfg. Co. (Lead Lined), 1519 Clearfield, Phila., Pa.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

## 11267a—Syphons ("Aerlock," Automatic Flushing)

**MERRITT & CO. (For Control of** Sewage & Other Liquors), 93 Arch, Camden, N. J. (See adv. index, end of book)

## 11268—Syphons (Alternating Sequence, Automatic)

**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

## 11269—Syphons (Steam Gauge)

**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
Kelly & Jones Co. (Common), Pittsburg, Pa.
**LUNKENHEIMER CO., General Office & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices. end of book)
**NATIONAL GAUGE CO. (Pressure),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Tube Co., Pittsburg, Pa.
**SCHAEFFER & BUDENBERG MFG. Co.,** 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Williams, D. T. Valve Co., Cincinnati, O.

## Syrens (Steam)

(See Sirens, Steam)

## 11270—Syringes (Hypodermic)

Higgins Dental Mfg. Co. (Obtunding), Bellevue, O.
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## Syringes (Oil)

(See Oil Guns & Syringes)

## 11271—Syringes & Atomizers (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 11272—Tables (Adjustable, Reading)

Baker, J. R. & Sons Co., Kendallville, Ind.

## Tables (Brick Cutting)

(See Brick Cutting Machinery)

## 11273—Tables (Canners' Packing)

Huntley Mfg. Co., Silver Creek, N. Y.

## 11274—Tables (Card & Folding)

**BURROWES, E. T. CO., THE, 70** Free, Portland, Me. (See adv. index & branch offices, end of book)
Udell Works, Indianapolis, Ind.

## Tables (Concentrating)

(See Concentrators, Ore)

## 11275— Tables (Display)

Bryan Novelty Mfg. Co., Bryan, O.
Cox, S. S. Mfg. Co., Bryan, O.

## 11276—Tables (Drill, Universal)

Gang, Wm. E. Co., Cincinnati, O.

## 11277— Tables (Feed)

**Besly, Chas. H. & Co. ("Besly," Geared Lever), 124 N Clinton, Chicago, Ill.**

## 11278—Tables (Operating)

(See Furniture, Hospital; also Furniture, Surgical)

## 11279— Tables (Picking)

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
McLanahan-Stone Machine Co., Hollidaysburg, Pa.
**PITTSBURG CONVEYING MACHINERY Co. (For Coal, etc.), Pittsburg, Pa. (See adv. index & branch offices, end of book)**
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 11280—Tables (Rolling Mill Feed)

Aetna Foundry & Machine Co., Warren, O.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)

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**Rolling Mill Machinery**
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**PRESSES--PUNCHES--SHEARS**
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**National Roll & Foundry Co., Avonmore, Pa.**
**Pennsylvania Engineering Works, New Castle, Pa.**
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
Wheeling Mold & Foundry Co. (Blooming Mill Tables & Manipulators, etc.), Wheeling, W. Va.

## 11281—Tables (Saw Brazing)

Covel Mfg. Co., Benton Harbor, Mich.
Hanchett Swage Works, Big Rapids, Mich.

## 11282— Tables (Slime)

(See also Mining Machinery)

Chalmers & Williams (Revolving), Chicago Heights, Ill.
Deister Concentrator Co. ("Deister"), Fort Wayne, Ind.
Mine & Smelter Supply Co. ("Wilfrey"), 42 B'way, New York, & Denver, Col.

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## 11283—Tables (Soap Cutting)

(See also Soap Makers' Machinery)

**Houchin, Aiken Co., 37 53rd, Brooklyn, N. Y.**
Sowers Mfg. Co. ("Dopp"), Buffalo, N. Y.

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**CLEVELAND PUNCH & SHEAR** Work Co., Cleveland, O. (See adv. index, end of book)

## 11284— Tables (Steel)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
**DURAND-STEEL LOCKER CO. (For** Offices, Engineering Plants, etc.), American Trust bldg, Chicago, Ill., & Vanderbilt bldg, New York. (See adv. index, end of book)
**LYON METALLIC MFG. CO. (For All** Purposes), Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

## 11285—Tables (Transfer)

Barbour-Stockwell Co. (Electric Car, etc.), Bonnot Co., Canton, O. Cambridge, Mass.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
**CLEVELAND PUNCH & SHEAR** Work Co., Cleveland, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Hunt, C. W. Co., West New Brighton, S. I., Industrial Car Co., West Park, O. **N. Y.**
Kilbourne & Jacobs Mfg. Co., Columbus, O.
National Roll & Foundry Co., Avonmore, Pa.
Penn. Bridge Co., Beaver Falls, Pa.
Snyder Steel & Iron Works Co. (Electric Car), Kansas City, Mo.
Toledo Bridge & Crane Co., Toledo, O.
Wharton, Wm., Jr., & Co. (Electric Car, etc.), 25th & Washington, Phila., Pa.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
White Mfg. Co. (Electric Car, etc.), 556 W 34th, New York

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ERNST WIENER COMPANY
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Wood, R. D. & Co. (For Locomotive & Car Shops), 400 Chestnut, Phila., Pa.

## 11286—Tables (Transfer, Electric)

**CLEVELAND CRANE & ENGINEER**ing Co., Wickliffe, O. (See adv. index, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 11287—Tables (Water Cooled Casting)

**National Roll & Foundry Co., Avonmore, Pa.**

## Tablets (Bronze, Etc.)

(See Bronze Tablets, etc.)

## 11288—Tablets (Cast Brass, Bronze or Iron)

**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)

## 11289— Tachometers

Biddle, James G., 1114 Chestnut, Phila., Pa.
**BRISTOL CO. ("Bristol's" Long Dis**tance Recording), Waterbury, Conn. (See adv. index & branch offices, end of book)
Du Vivier, Ernest H., 30 Church, New York
Gurley, W. & L. E., Troy, N. Y.
**INDUSTRIAL INSTRUMENT CO.** ("Dr. Horn" Portable & Stationary), Foxboro, Mass. (See adv. index & branch offices, end of book)
Lombard Governor Co. (Precision), Ashland, Mass.
**NATIONAL GAUGE CO. ("National"** Portable, Stationary, Indicating & Recording), 168 8th, Brooklyn. N. Y. (See adv. index, end of book)
**QUEEN & CO. (Inc.), 1211 Arch, Phil**adelphia, Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. (Portable, Stationary, Indicating & Recording, Special for Power Boats, Paper Machines & Turbines), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Uehling Instrument Co., Passaic, N. J.
Veeder Mfg. Co. ("Veeder"), Hartford, Conn.
Warner Instrument Co. (For Indicating Cutting Speed on Machine Tools & for Indicatiing Shaft Speed), Beloit, Wis.

## 11289a—Tachometers (Recording)

**INDUSTRIAL INSTRUMENT CO., Fox**boro, Mass. (See adv. index & branch offices, end of book)

## 11290— Tachoscopes

**SCHAEFFER & BUDENBERG MFG.** Co. (Non-Magnetic, Combined Counter & Watch), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

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Anderson Tack Co., Rockland, Mass.
Atlas Tack Co. (Cut & Wire), Fairhaven, Mass.
Carter, Geo. A. (Shoe), Brockton, Mass.
Churchill & Allen (Shoe), Lynn, Mass.
Clendenin Bros. (Iron & Brass Shoe, etc.), Baltimore, Md.
Cleveland Tack Works (Shoe, Upholsterers & Carpet), Cleveland, O.
Cobb & Drew, Plymouth, Mass.
**Cole, H. C. & W. S., Kingston, Mass.**
**Cook-Perkins Tack Co., Brockton, Mass.**
Cross, W. W. & Co. (Inc.), (Tacks & Shoe Nails), Brockton, Mass.
Ford, L. E. Co., Kingston, Mass.
Fuller, G. E. & A. I., Keene, N. H.
Genesee Tack Co., Rochester, N. Y.
**Globe Taunton Nail Co. (Wire, Carpet, Bill** Poster, etc.), Taunton, Mass.
Grand Crossing Tack Co. (Carpet, etc.), S Chicago av & 79th, Chicago, Ill.
Gurney, D. B., Whitman, Mass.
H. C. Tack Co., Cleveland, O.
Haverhill Tack Co., Haverhill, Mass.
Hawkins Co., South Britain, Conn.
Hobart, Benj. Co., Whitman, Mass.
**Holland Mfg. Co., Baltimore, Md.**
Hussey, C. G. & Co. (Copper), Pittsburg, Pa.
Independent Tack Co., Kent, O.
Judson Mfg. Co., San Francisco, Cal.
**Keystone Nail Co., Pittsburg, Pa.**
**Kimball Bros. & Sprague, Brockton, Mass.**
Latty Mfg. Co., Ellicottville, N. Y.
Magiathlin, F. W. & Co., Kingston, Mass.
**MERCHANT & EVANS CO. (Inc.)** (Copper), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
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Milwaukee Tack Co. (Carpet, Broom, Canvas, Upholsterers', Bill Posters', Coopers', Shoe Cheese Box, Hungarian, etc.), Milwaukee, Wis.
Morgan Spring Co., Worcester, Mass.
National Screw & Tack Co., Cleveland, O.
Osborne, W. & Co., Lakeville, Mass.
Parker Wire Goods Co. (Wire), Worcester, Mass.
Penn Tack Co., Norristown, Pa.
Phillips, Ezra & Sons, South Hanover, Mass.
Plymouth Mills, Plymouth, Mass.
Reading Screw Co., Norristown, Pa.
Ripley & Bartlett, Plymouth, Mass.
**Rome Brass & Copper Co. (Brass & Copper),** Rome, N. Y.
Salmond, Sam'l & Son, Hanover, Mass.
Shelton Co. (Cut, Basket, Box, Carpet, Brush, Looking Glass, Lace, Gimp, Broom, Trunk, Hide, Bill Posters, etc.), Shelton, Conn.
**Somers, Patrick E., Worcester, Mass.**
**Stanley, Geo. W. Co., Belleville, Ill.**
**Stevens & Willis Co., South Braintree, Mass.**
Superior Tack & Nail Co., Penn Yan, N. Y.
Taunton-New Bedford Copper Co. (Copper), New Bedford, Mass.
Tower Mfg. Co. (Steel, Iron, Copper, etc.), Cincinnati, O., & Madison, Ind.
Wire Goods Co., Worcester, Mass.
York Tack & Nail Wks. (Also Nails), York, Pa.

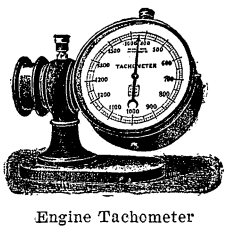
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Clendenin Bros., Baltimore, Md.
Cole, H. C. & W. S., Kingston, Mass.
Diamond Tack & Nail Works, Raynham, Mass.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Hobart, Benj. Co., Whitman, Mass.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
Hussey, C. G. & Co. (Copper), Pittsburg, Pa.
Mattatuck Mfg. Co. (Brass), Waterbury, Conn.
**MERCHANT & EVANS CO. (Inc.)** (Copper), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Milwaukee Tack Co., Milwaukee, Wis.
Penn Tack Co., Norristown, Pa.
Phillips, Ezra & Sons, South Hanover, Mass.
Plymouth Mills, Plymouth, Mass.
Ripley & Bartlett, Plymouth, Mass.
Rome Brass & Copper Co., Rome, N. Y.
Shelton Co., Shelton, Conn.
Taunton-New Bedford Copper Co. (Copper), New Bedford, Mass.
Tower Mfg. Co., Cincinnati, O.
Turner & Stanton Co. (Brass), Norwich, Conn.

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**Atlas Tack Co., Fairhaven, Mass.**
Cleveland Tack Works, Cleveland, O.
Cobb & Drew, Plymouth, Mass.
**Globe-Taunton Nail Co., Taunton, Mass.**
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
**Holland Mfg. Co., Baltimore, Md.**
Independent Tack Co., Kent, O.
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**Morgan Spring Co., Worcester, Mass.**
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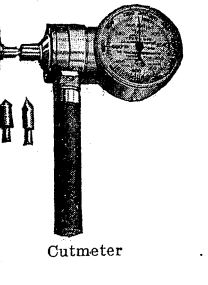
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Shelton Co., Shelton, Conn.
Stanley, Geo. W. Co., Belleville, Ill.
Superior Tack & Nail Co., Penn Yan, N. Y.
Titchener, E. H. & Co., Binghamton, N. Y.
Tower Mfg. Co., Cincinnati, O., & Madison, Ind
Wire Goods Co., Worcester, Mass.
**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

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**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 11295— Tacks (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

## 11296—Tacks (Rubber-Headed)

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**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)

## 11297— Tacks (Thumb)

Albrecht, Chas. R., 62 Fulton, New York
Hawkes-Jackson Co. ("Solidhed"), 38 Murray, New York
Hodge Mfg. Co. ("Modern"), 108 Fulton, New York
Moore Push-Pin Co. ("Moore", Steel Pointed), Phila., Pa.
National Sheet Metal Co. (Stamped from Nickel Steel), Penn, Ill.
**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)
Tatum, Samuel C. Co., Cincinnati, O.
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)

## 11298—Tacks (Upholsterers')

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**AMERICAN STEEL & WIRE CO.** ("American", Wire), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Berbecker & Rowland Mfg. Co. (Brass Furniture Nails), Waterville, Conn.
Cleveland Tack Works, Cleveland, O.
Equipoise Rivet Co., Waterbury, Conn.
Genesee Tack Co., Rochester, N. Y.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Holland Mfg. Co. (Brass & Gilt), Baltimore, Md.
Hungerford, U. T., Brass & Copper Co. (Brass), 497 Pearl, New York
Mattatuck Mfg. Co. (Brass), Waterbury, Conn.
Milwaukee Tack Co., Milwaukee, Wis.
Plymouth Mills, Plymouth, Mass.
Ripley & Bartlett, Plymouth, Mass.
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Salmond, Sam & Son, Hanover, Mass.
Shelton Co., Shelton, Conn.
Tockwotten Co., Providence, R. I.
Tower Mfg. Co., Cincinnati, O.
Traut & Hine Mfg. Co., New Britain, Conn.
Turner & Stanton Co. (Brass & Plated), Waterman, R. C., Hanover, Mass. wich, Conn.

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Aluminum Goods Mfg. Co., Manitowoc, Wis.

## 11300— Tags (Cable)

Harvard Electric Co., 525 W Van Buren, Chicago, Ill.
Ridlon, Frank Co., Boston, Mass.

## 11301—Tags (Hard Fibre)

**AMERICAN VULCANIZED FIBRE Co.** (Vulcanized), Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark Centre, Del.** (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.,** Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere, Del.** (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY Co., Wilmington, Del.** (See adv. index & branch offices, end of book)

## 11302— Tags (Hook)

Salisbury Mfg. Co., Providence, R. I.

## 11302a—Tags (Hotel Key, Etc.)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)

## 11303—Tags (Metal Edge)

Salisbury Mfg. Co., Providence, R. I.

## 11304— Tags (Shipping)

(See also Tags, Tin; also Tags, Zinc)

Acme Tag Mfg. Co., Minneapolis, Minn.
Allen, Robert T., Jackson, Mich.
American Mfg. Co., Battle Creek, Mich.
American Tag Co., 6133 State, Chicago, Ill., & Belleville, N. J.
Cupples, Samuel Envelope Co., St. Louis, Mo.
Dennison Mfg. Co., Boston, Mass.
**Denny Tag Co., West Chester, Pa.**
Eastern Pin Ticket & Tag Co., Perkasie, Pa.
Folding Paper Box Co., South Bend, Ind.
Gair, Robert Co., Wash'n & Plymouth, Brooklyn, N. Y.
International Tag Co., 661 W Lake, Chicago, Ill.
Keystone Tag Co., West Chester, Pa.
Murray Mfg. Co., Newnan, Ga.
National Tag Co., Dayton, O.
Reyburn Mfg. Co., 22nd & Allegheny av, Phila., Pa.
Salisbury Mfg. Co., Providence, R. I.
Scharf Tag, Label & Box Co., Ypsilanti, Mich.
Sutcliffe, Adam Co., Pawtucket, R. I.
Scharf Tag Label & Box Co., Ypsilanti, Mich.
Thomas Stationery Mfg. Co., Springfield, O.
Western Tag Mfg. Co., St. Louis, Mo.

## 11305— Tags (Tin)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Ammidon & Co., Baltimore, Md.
Grammes, L. F. & Sons, Allentown, Pa.
Murdock, Jas., Jr., Cincinnati, O.
**WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill.** (See adv. index, end of book)

## 11306— Tags (Zinc)

Hill, Jas. H. & Sons, Coventry, R. I.

## Tailors' Irons

(See Sad Irons)

## 11307— Take-Ups

Dodge Mfg. Co., Mishawaka, Ind.
Eagle Foundry & Machine Co., Fort Scott, Kan.
**LINK BELT COMPANY, Hunting** Park av & Reading rd, Phila., Pa. (See adv. index & branch offices, end of book)
Nordyke & Marmon Co. (Rope), Indianapolis, Ind.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)

## 11308—Talc Blanks (Insulator & Gas Burner)

North Carolina Talc & Mining Co., Hewitts, N. C.

## 11309—Talc Mfrs. & Miners

Atlas Mineral & Machine Co., Lincoln, N. J.
**Bush, Chas. S. Co., Providence, R. I.**
Chemical Mfg. Co., Covington, Ky.
Cohutta Talc Co., Dalton, Ga.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Georgia Talc Co., Ashboro, N. C.
International Pulp Co., 41 Park row, New York
North Carolina Talc & Mining Co., Hewitts,
Ontario Talc Co., Gouverneur, N. Y. N. C
**St. Lawrence Talc & Asbestos Co., 5 E 42d.** New York
Smith, J. Lee & Co. (Importers), 19 Jacob, New York
Standard Talc Co., Rochester, Vt.
Union Talc Co., 132 Nassau, New York.

## 11310—Talc (Powdered)

**Avery Chemical Co., Boston, Mass.**
Binney & Smith Co., 81 Fulton, New York
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Georgia Talc Co. (Also Foundry Facings), Ashville, N. C.
Nevins, Sam'l Co. (French & American), 109 S 2d, Phila., Pa.
North Carolina Talc & Mining Co., Hewitts, N. C.
St. Lawrence Talc & Asbestos Co., 5 E 42d, New York
**Salomon, L. A. & Bro. (French), 216 Pearl, New York**
**SCHULE, F. H. CO., 114 Liberty, New** York. (See adv. index, end of book)
**Steward, D. M. Mfg. Co., Chattanooga, Tenn.**
Whittaker, W. H., 245 Front, New York
Williams, C. K. & Co., Easton, Pa.

## 11310a— Talckene

**WILBUR, J. CO., Providence, R. I.** Factory: Phila., Pa. (See adv. index, end of book)

## 11311—Talking Machine Specialties

Hawthorne Mfg. Co., Bridgeport, Conn.

## 11312— Tallow

**Aikenhead, Wm., Rochester, N. Y.**
Armour & Co., Chicago, Ill.
Biggs, E. W. & Co., Kansas City, Mo.
Birmingham Hide & Tallow Co., Birmingham, Ala.
California Tallow Works, San Francisco, Cal.
Consolidated Rendering Co., Boston, Mass.
Cudahy Packing Co., Omaha, Neb.
Darling & Co., Chicago, Ill.
Davis Oil Co., Brooklyn, N. Y.
Elkan, H. & Co., 10 W Michigan, Chicago, Ill.
Flavel Co., Asbury Park, N. J.
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Morris & Co., The Rookery, Chicago, Ill.
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New Orleans Butchers' Hide & Tallow Co. (Ltd.), New Orleans, La.
New York Butchers' Fat Melting Co., ft W 39th, New York
Rochester Tallow Co., Rochester, N. Y.
Rosenberg, Jos., 58 Townsend, Brooklyn, N. Y.
St. Louis Hide & Tallow Co., St. Louis, Mo.
Schwarz Bros. Co., Kearny, N. J.
Schwartzchilds & Sulzberger Co., 46th & E. R., New York
Stern, Jos. & Sons, 614 W 40th, New York
Swift & Co., Chicago, Ill., & Jersey City, N. J.
**United Dressed Beef Co., New York**
Whitman & Pratt Rendering Co., Lowell, Mass.
White, Thos. H. & Co. (Brokers), Baltimore, Md.
Wise, L. & Bro., Cincinnati, O.

## 11313—Tallow (Vegetable)

Klipstein, A. & Co., 127 Pearl, New York

## 11314— Tamers (Hog)

Stearns, E. C. & Co., Syracuse, N. Y.

## 11315—Tampers (Concrete)

Anderson Mfg. Co. ("Magic"), Moorhead, Minn.
Anderson, W. H. Tool & Supply Co., 14 & 16 Macomb, Detroit, Mich.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO.** (Iron & Steel), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Dunn Mfg. Co., N S, Pittsburg, Pa.
Kramer Automatic Tamper Co. ("Kramer"), Peoria, Ill.
Kramer Bros. Foundry Co. ("Gem" Hand), Dayton, O.
Petrolithic Pavement Co. ("Petrolithic," for Macadam Construction), Los Angeles, Cal.
Raber & Lang Mfg. Co. ("Crescent," Power), Kendallville, Ind.
**RANSOME CONCRETE MACHINERY CO.,** Dunellen, N. J. (See adv. index & branch offices, end of book)

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**ROCK ISLAND MFG. CO., ROCK** Island, Ill. (See adv. index & branch offices, end of book)
**Sheldon, E. H. & Co.,** 312 N May, Chicago, Ill.
**South Bend Foundry Co.,** South Bend, Ind.
**Stortz, John & Son,** 210 Vine, Phila., Pa.

## 11316—Tampers (Dirt & Sod)

**Brunner & Lay,** 570 W Polk, Chicago, Ill.
**Duffy Mfg. Co.,** 214 W Indiana, Chicago, Ill.
**Dunn Mfg. Co.** (For Sewer & Trench Work, etc.), N S, Pittsburg, Pa.
**Heath Foundry & Machine Co.,** Plymouth, O.
**Indiana Foundry Co.,** Indiana, Pa.
**Iron City Foundry Co.,** Lebanon, Pa.
**Modern Iron Works** (Iron Handle), Quincy, Ill.
**Stortz, John & Son,** 210 Vine, Phila., Pa.
**Swett, A. L. Iron Works,** Medina, N. Y.
**Wapak Hollowware Co.,** Wapakoneta, O.

## 11317— Tank Fixtures

**American Valve & Meter Co., Cincinnati, O.**
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO. (Railroad,** etc.), Brook & D, Louisville, Ky. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**Kalamazoo R'y Supply Co.,** Kalamazoo, Mich.
**McGowan, John H. Co.** (Water, Railroad Only), 54 Central av, Cincinnati, O.

## Tank Saddles

(See Boiler Saddles)

## 11318—Tanks (Acid Storage)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**Aurora Boiler Works** (Inc.), Aurora, Ill.
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**Bovaird & Seyfang Mfg. Co.,** Bradford, Pa.
**BUFFALO FOUNDRY & MACHINE** Co. (Cast Iron), Buffalo, N. Y. (See adv. index, end of book)
**CALDWELL, W. E. CO. (Yellow Pine** or Cypress a Specialty), Brook & D, Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**Connery & Co.,** 9th & Master, Phila., Pa.
**Corcoran, A. J.** (Inc.), 11 John, New York
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**Leslie, Elliott & Co.,** Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**Morgan Construction Co.,** Worcester, Mass.
**Muskegon Boiler Works,** Muskegon, Mich.
**National Engineering Co.,** Saginaw, Mich.
**New York Central Iron Works Co.,** Geneva, N. Y.
**Norcross Co.** (Euclid Stone), Cleveland, O.
**PETROLEUM IRON WORKS CO.** (Steel), Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**Roberts, S. H. Boiler & Tank Co.,** Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**Sharon Boiler Works,** Sharon, Pa.
**Smith, Samuel & Son Co.,** Paterson, N. J.
**Standard Boiler & Plate Iron Co.,** Niles, O.
**Stuart & Peterson Co.** (Cast Iron), Burlington, N. J.
**Turner, Vaughn & Taylor Co.,** Cuyahoga Falls, Ohio
**United Iron Works Co.,** Springfield, Mo.
**Walls, Owen & Stambach Co.** (Soapstone), 11th & Ridge av, Phila., Pa.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## Tanks (Agitating)

(See Agitators)

## 11319— Tanks (Air)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**Air-Tight Steel Tank Co.,** Pittsburg, Pa.
**American Boiler Works,** Louisville, Ky.
**American Oil Pump & Tank Co.,** Dayton, O.
**Aurora Boiler Works** (Inc.), Aurora, Ill.
**Avery Stamping Co.,** 5207 Lakeside av, N E, Cleveland, O.
**BALTIMORE COOPERAGE CO., THE** (Air Pressure), cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**Bovaird & Seyfang Mfg. Co.,** Bradford, Pa.
**BUFFALO FOUNDRY & MACHINE** Co. (Cast Iron), Buffalo, N. Y. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**Connery & Co.,** 9th & Master, Phila., Pa.
**Detroit Range Boiler Co.,** Detroit, Mich.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**Heggie-Woodruff Pressed Steel Co.** (Seamless Pressed Steel), Joliet, Ill.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**Ironclad Mfg. Co.,** 204 Varet, Brooklyn, N. Y.
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**Leslie, Elliott & Co.,** Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**MICHELMANN STEEL CONSTRUC-**tion Co., Quincy, Ill. (See adv. index, end of book)
**Muskegon Boiler Works,** Muskegon, Mich.
**New York Central Iron Works Co.,** Geneva, N.Y.
**Penna. Range Boiler Co.,** 2010 N 10th, Phila., Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**PRESSED STEEL TANK CO. (Seam-**less Steel), Milwaukee, Wis. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**Roberts, S. H. Boiler & Tank Co.,** Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
**Smith, Samuel & Son Co.,** Paterson, N. J.
**Snyder Steel & Iron Works Co.,** Kansas City, Mo.
**Standard Boiler & Plate Iron Co.,** Niles, O.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**Treadwell, M. H. Co.,** 90 West, New York. Works: Lebanon, Pa.
**Tudor Boiler Mfg. Co.,** 715 E 3d, Cincinnati, Ohio
**United Iron Works Co.,** Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11320—Tanks (Air Brake)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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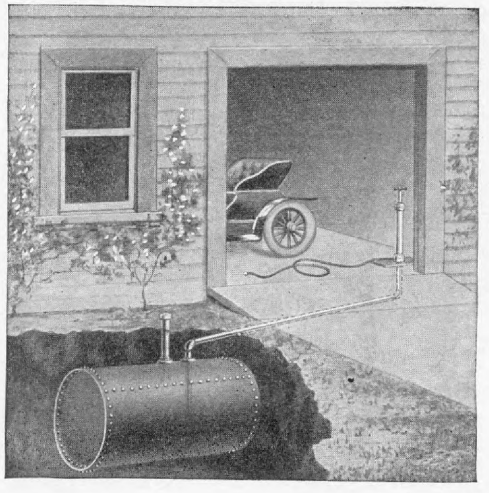
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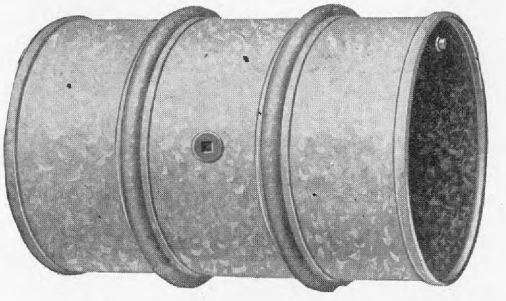
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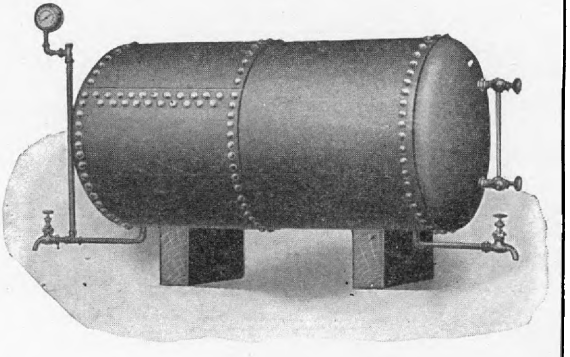



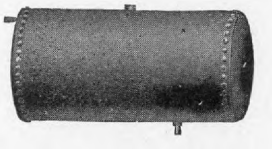










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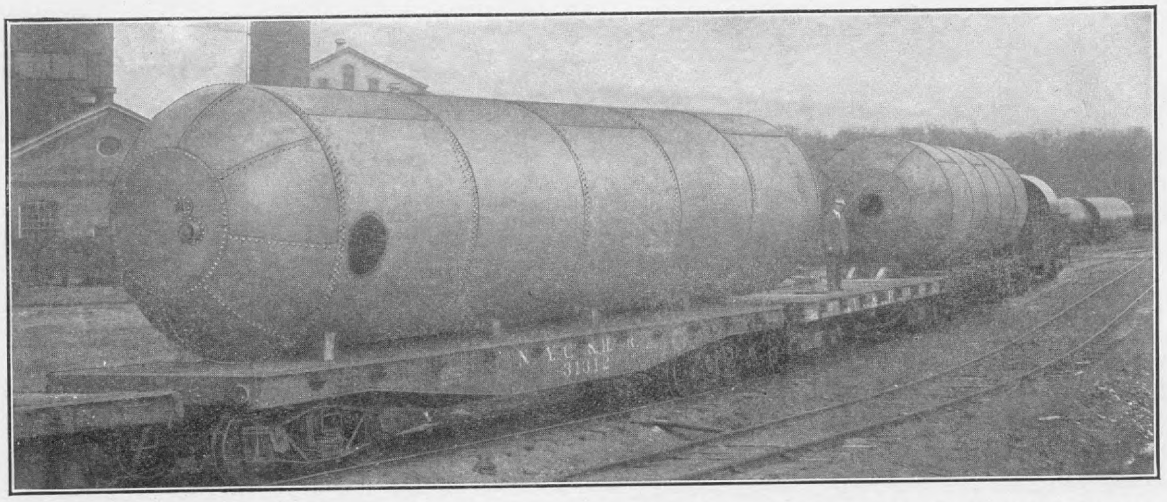
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## 11321—Tanks (Air Compressor)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.), 39 Cortlandt, New York
American Oil Pump & Tank Co., Dayton, O.
Aurora Boiler Works (Iron), Aurora, Ill.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago. Ill. (See adv. index & branch offices, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Manitowoc Engineering Works, Manitowoc, Wis.
**MICHELMANN STEEL CONSTRUC**tion Co., Quincy, Ill. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
New York Central Iron Works, Geneva, N. Y.
O'Brien, John Boiler Works Co., St. Louis, Mo.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Standard Boiler & Plate Iron Co., Niles, O.
Treadwell, M. H. Co., 90 West, New York, Works, Iebanon, Pa.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, Ohio
United Iron Works Co., Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11322—Tanks (Aquarium)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BALTIMORE COPPERAGE CO., THE** Wooden with Glass Fronts for Exhibits), c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)

## Tanks (Asphalt Heating)

(See Heaters, Asphalt)

## 11323—Tanks (Automobile, Fuel Storage)

A-Z Co., 527 W 56th, New York
**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Avery Stamping Co. ("Never Break"), Lake & Cleveland, O.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Briscoe Mfg. Co., Detroit, Mich.
Bushnell Tank Works, Bushnell, Ill.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Degenhart & Co., Buffalo, N. Y.
Eastern Oil Tank Co., Lowell, Mass.
Empire Hardware Co., Hoboken, N. J.
Fedders Mfg. Co., Buffalo, N. Y.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker" for Gasoline Storage), Springfield, Mass. (See adv. index & branch offices, end of book)
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Harps, J. A. Mfg. Co. ("Never-Fail"), Green- field, O.
Hayes Mfg. Co., Detroit, Mich.
Hydraulic Oil Storage Co. ("Snell's"), Penobscot bldg, Detroit, Mich.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange bldg Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
Kinsey Mfg. Co., ("Kinwood"), Toledo, O.
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
National Oil Pump & Tank Co., Dayton, O.
Prest-O-Lite Co., Indianapolis, Ind.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
Saginaw Sheet Metal Works, Saginaw, Mich.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Sexton Can Co., 2 Hartford, Boston, Mass.
Tokheim Mfg. Co., Cedar Rapids, Ia.
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11324—Tanks (Automobile Storage, Garage)

**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 11325—Tanks (Automobile, Water & Gasoline)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 11326—Tanks (Beet Sugar Syrup)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO. Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
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**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**RODGERS, BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11327—Tanks (Blow-Off)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.), 39 Cortlandt, New York
American Oil Pump & Tank Co., Dayton. O.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Connery & Co., 9th & Master, Phila., Pa.
Crooks-Kries & Co., Balto, Md.
Estabrook's, R. Sons ("Boston" with Clean-out Cover), 204 W 1st, S. B., Boston, Mass.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
New York Central Iron Works Co., Geneva, N.Y.
O'Brien, John Boiler Works Co., St. Louis, Mo.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

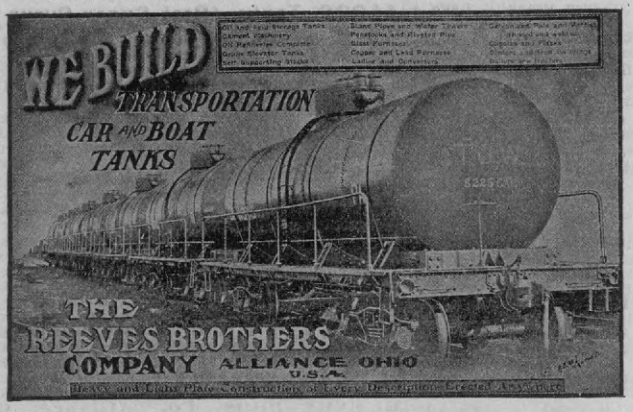
## 11328— Tanks (Boat)

(See Tanks, Car)

## 11329—Tanks (Brazing)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
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## Tanks (Calcium Light)

(See Cylinders, Calcium Light)

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## 11331–Tanks (Car Lighting)

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**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)

Heggie-Woodruff Pressed Steel Co. (Seamless Pressed Steel), Joliet, Ill.

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**PRESSED STEEL TANK CO., Mil-**waukee, Wis. (See adv. index, end of book)

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## 11332–Tanks (Car Wheel Annealing)

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## 11333–Tanks (Cast Iron Storage)

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## 11334–Tanks (Chemical)

Bethlehem Foundry & Machine Co. (Cast Iron, Evaporating, Mining, etc.), South Bethlehem, Pa.

United States Stoneway Co. (Glazed Stoneware), Akron, O.

Weeks, A. J. (Stoneware), Akron, O.

## 11335–Tanks (Coal Tar)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## 11336–Tanks (Cold Storage)

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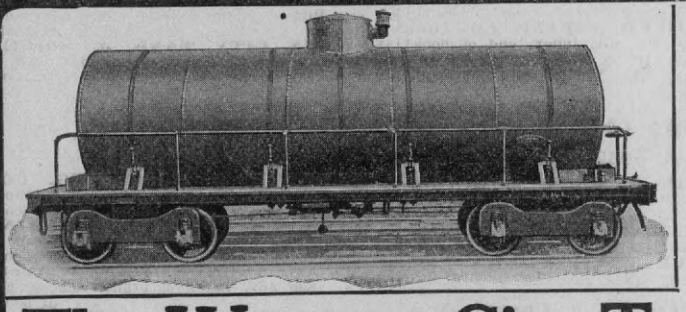
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**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## Tanks (Compressed Air)

(See Tanks, Air Compressor)

## 11337—Tanks (Concrete Steel)

Aurora Boiler Works (Inc.), Aurora, Ill.
Carey Construction Co., Cleveland, O.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**TRUSSED CONCRETE STEEL CO.,** Detroit, Mich. (See adv. index & branch offices, end of book)

## 11338—Tanks (Condenser)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.), 39 Cortlandt, New York
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
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Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
National Boiler & Sheet Iron Works, Indianapolis, Ind.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
Standard Boiler & Plate Iron Co., Niles, O.
United Iron Works Co., Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11339— Tanks (Copper)

American Copper & Brass Works, Cincinnati, O.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Briscoe Mfg. Co., Detroit, Mich.
Goetz & Flodin Mfg. Co., Clyborn av & Willow, Chicago, Ill.
Hayes Mfg. Co., Detroit, Mich.
Kells, W. J. Mfg. Co., Jersey City, N. J.
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Randolph-Clowes Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Saginaw Sheet Metal Works, Saginaw, Mich.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Stokes, F. J. Machine Co. (For Chemical & Metallurgical Purposes), Phila., Pa.
Trageser, John, Steam Copper Works, 447 W 26th, New York
Walker, James & Son, Detroit, Mich.
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11340—Tanks (Cottonseed Oil)

**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)

## Tanks (Creosoting)

(See Cylinders, Creosoting)

## 11341—Tanks (Cyanide)

(See also Tanks, Wood)
**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D.** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Colorado Iron Works Co. (Steel), Denver, Colo.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
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**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Pacific Tank & Pipe Co. (Wooden), San Francisco, Cal., & Los Angeles, Cal.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Power & Mining Machinery Co. (Steel), Cudahy, Wis.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Redwood Mfrs. Co. (Cal. Redwood), Balboa bldg, San Francisco, Cal.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
Silver Bros. Iron Works Co., Salt Lake City, Utah
Sharon Boiler Works, Sharon, Pa.
Standard Boiler & Plate Iron Co., Niles, O.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
Western Pipe & Steel Co., Los Angeles, Cal.

## 11342—Tanks (Cylindrical)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
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**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
Muskegon Boiler Works, Muskegon, Mich.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
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**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
Standard Boiler & Plate Iron Co., Niles, O.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
United Iron Works Co., Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11342a—Tanks Cypress)

(See Tanks, Wood)

## 11343—Tanks (Dipping)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Bushnell Tank Works, Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Columbian Steel Tank Co. (Hog, Sheep, Cattle, etc.), Kansas City, Mo.
**CONNERY & CO., 9th & Master,** Phila, Pa. (See adv. index, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
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## 11344—Tanks (Dross Skimming)

Metal Dross Economy Co. (For Skimming Metal Dross), Bristol, Conn.

## 11345—Tanks (Dry Cleaners')

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## 11346—Tanks (Expansion)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
American Radiator Co., ("Ideal," Automatic, etc.), 282 Michigan av, Chicago, Ill.
Andrews Heating Co. ("Andrews"), Minneapolis, Minn.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Central Foundry Co. (Green House), 90 West, New York
Cody, Jos. & Sons, Peoria, Ill.
Detroit Range Boiler Co., Detroit, Mich.
Frost Mfg. Co., Galesburg, Ill.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Grote Mfg. Co., Evansville, Ind.
Heggie-Woodruff Pressed Steel Co. (Seamless Pressed Steel), Joliet, Ill.
Hibbs, E. A., 212 Quarry, Philadelphia, Pa.
Hopson & Chapin Mfg. Co. (Cast Iron Automatic Feed), New London, Conn.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

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Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
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**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Lawler Regulator Co. ("Lawler's" Automatic), 473 W Broadway, New York
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Mott, J. L., Iron Works, 118 5th av, New York
Murray Iron Works Co., Burlington, Ia.
New York Central Iron Works Co., Geneva, N. Y.
Page, W. H. Boiler Co., 15 Murray, New York
Penna. Range Boiler Co., 2010 N 10th & Norris, Phila., Pa.
**PRESSED STEEL TANK CO., Mil**waukee, Wis. (See adv. index, end of book)
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Ronalds & Johnson Co., 51 Boerum, pl, Brooklyn, N. Y.
Saginaw Sheet Metal Works, Saginaw, Mich.
**SCAIFE, WM. B. & SONS CO.** ("Scaife," Automatic, etc.), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Springfield Boiler & Mfg. Co., Springfield, Ill.
Star Boiler Works (Inc.), Clinton, Ia.
Thompson Iron Works, 1825 Callowhill, Phila., Pa.
Trageser, John, 477 W 26th, New York
Treadwell M. H. Co., 90 West, New York. Works, Lebanon, Pa.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
Walker & Pratt Mfg. Co. (Galvanized Steel), Boston, Mass.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.
Wood, John Mfg. Co. (Electric Welded Seamless), Conshohocken, Pa.

## 11347– Tanks (Faucet)

Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.

## 11348– Tanks (Filter)

**ABENDROTH & ROOT MFG. CO.,** Newburg, N. Y. (See adv. index & branch offices, end of book)
American Water Softener Co., 1009 Chestnut, Phila, Pa.
**BALTIMORE COOPERAGE CO., THE** (Wooden), cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
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New York Central Iron Works Co., Geneva, N. Y.
O'Brien, John Boiler Works Co., St. Louis, Mo.
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Standard Boiler & Plate Iron Co., Niles, O.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
United Iron Works Co., Springfield, Mo.
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## 11349–Tanks (Fire Extinguisher)

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**ARROW CAN CO., Warren & Church,** New York. (See adv. index & branch offices, end of book)
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## 11350– Tanks (Flush)

**KOVEN, L. O. & BRO., 50 Cliff, New** York (See adv. index, end of book)
**MERRITT & CO. (For Sewers), 93** Arch, Camden, N. J. (See adv. index, end of book)
Newport Foundry & Machine Corporation (Sewage Disposal Siphon"), Newport, R. I.
Pacific Flush Tank Co. ("De La Hunt," also "Miller" Automatic Siphon for Flushing Sewers), 184 La Salle, Chicago, Ill.
Stary, F. & Sons, Cedar Rapids, Ia.

## 11351–Tanks (Fuel Oil)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
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Snyder Steel & Iron Works Co., Kansas City, Mo.
United Iron Works Co., Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11352–Tanks (Galvanized Steel)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**AMERICAN CAN CO., 447 W 14th,** New York (See adv. index & branch offices, end of book)
**ARROW CAN CO., Warren & Church,** New York. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., THE,** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Beckman Bros., Des Moines, Ia.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Bushnell Tank Works, Bushnell, Ill.
Butler Co., Butler, Ind.
Butler Mfg. Co., Minneapolis, Minn.
Butler Mfg. Co., Kansas City, Mo.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Challenge Co., Batavia, Ill.
Chicago Steel Tank Co., 733 S Halsted, Chicago, Ill.
Collins Iron Works, Phelps, N. Y.
Columbian Steel Tank Co., Kansas City, Mo.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Dickelman Mfg. Co., Forest, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flint & Walling Mfg. Co., Kendallville, Ind.
Freeland, B. F. Sons Co., Sturgis, Mich.
Gedge Bros. Iron Roofing Co., Anderson, Ind.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of bank)
Harry Bros. Co. ("Harry's," Corrugated & "K-D," Galvanized Iron) Newport, Ky., & New Orleans, La.
Harry Bros. Mfg. Co. (Corrugated), Dallas, Tex.
Harry, H. W. Mfg. Co., Kansas City, Mo.
Harry, O. K. Steel Co., St. Louis, Mo.
Harry, O. K. Steel Works (Corrugated Stock, Storage, Railroad, Grain, Wagon, etc.), Dallas, Tex.
Hunt & Dorman Mfg. Co. (Iron Storage), Cleveland, O.
Kelly Foundry & Machine Co., Goshen, Ind.
Kelly Mfg. Co. (Stock, Storage, Creamery, etc.), Waterloo, Ia.
**KENNICOTT CO., Sales Office: Corn** Exchange Natl. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Littleford Bros., 453 E Pearl, Cincinnati, O.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index & branch offices, end of book)
Muenzermayer, J. J. & W. F. (Iron Stock), Junction City, Kans.
New York Central Iron W'ks Co., Geneva, N. Y.
Niles Steel Tank Co., Niles, Mich.
Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.
Perkins Wind Mill Co., Mishawaka, Ind.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Saginaw Sheet Metal Works, Saginaw, Mich.
**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa.. (See adv. index, end of book)
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Trachte Bros. & Co., Madison, Wis.
Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
Vernier Mfg. Co., Cedar Rapids, Ia.
Waterloo Mfg. Co. (Stock, Storage, Creamery, etc.), Waterloo, Iowa
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)
Wooden Package Mfg. Co., Omaha, Neb.

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THE
TANK WITH A REPUTATION

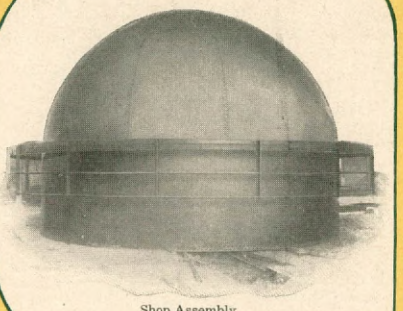
W. E. CALDWELL CO.
LOUISVILLE, KY., U. S. A.

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# "THE TANK WITH A REPUTATION"



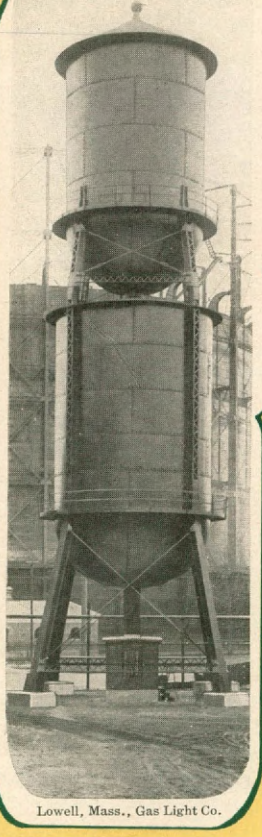
Fuller "Packard Garage" Bldg., Boston



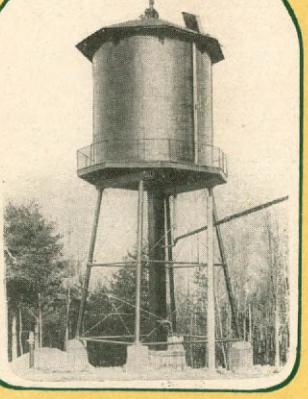
Shop Assembly



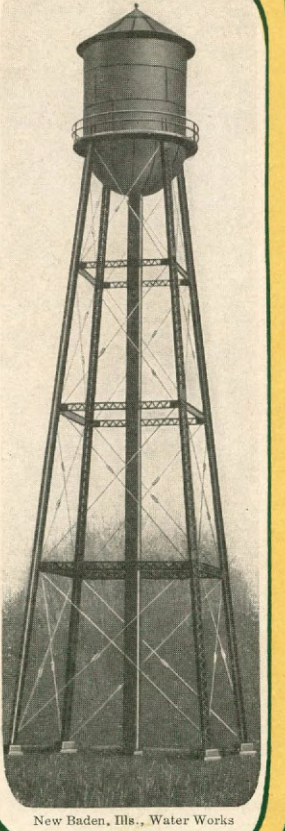
Studebaker Bros.
South Bend
Indiana



Lowell, Mass., Gas Light Co.



Poland Springs, Maine, Hotel



New Baden, Ills., Water Works

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Office and Warerooms: 50 CLIFF ST., N. Y. Works: JERSEY CITY, N. J.


## 11353—Tanks (Gas Engine)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bushnell Tank Works. Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Heggie-Woodruff Pressed Steel Co. (Seamless Pressed Steel), Joliet, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**PRESSED STEEL TANK CO., Milwaukee, Wis.** (See adv. index, end of book)
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa.** (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11354—Tanks (Gas & Gasoline Engine Cooling)

Roseland Can & Specialty Co., Rockford, Ill.

## 11355—Tanks (Gasoline)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Air-Tight Steel Tank Co. (Storage for Motor Cars, etc.), Pittsburg, Pa.
American Boiler Works, Louisville, Ky.
**AMERICAN CAN CO. (Underground** Storage), 447 W 14th, New York. (See adv. index & branch offices, end of book)
Avery Stamping Co. ("Never Break"), Lake & Coe, Cleveland, O.
**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bovaird & Seyfang Mg. Co., Bradford, Pa.
Bowser, S. F. & Co. (Inc.) (Self-Measuring), Fort Wayne, Ind.
Bushnell Tank Works, Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Detroit Range Boiler Co., Detroit, Mich.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GILBERT & BARKER MFG. CO.** (Underground Storage), Springfield, Mass. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
New York Central Iron Works Co., Geneva, N. Y.
O'Brien, John Boiler Works Co., St. Louis, Mo.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Pittsburg Steel Tank Co., Pittsburg, Pa.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
Saginaw Sheet Metal Works. Saginaw, Mich.
**SCAIFE, WM. B. & SONS CO. (Storage, Launch, Underground, etc.), 221 1st av,** Pittsburg, Pa. (See adv. index, end of book)
Snyder Steel & Iron Works Co., Kansas City, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)
Wilson & Friend Co. ("Acme"), 3136 S Canal, Chicago, Ill.

## Tanks (Glass Enameled Steel)

(See Tanks, Steel, Glass Enameled)

## 11355a—Tanks (Grain Elevator)

(See Tanks, Grain Storage)

## 11356—Tanks (Grain Storage)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bushnell Tank Works, Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Corcoran, A. J. (Inc.), 11 John, New York
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Guerber Engineering Co., Bethlehem, Pa.
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Harry Bros. Co. ("Harry's", Corrugated Galvanized Steel), Newport, Ky., & New Orleans, La.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHINE**ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
National Boiler & Sheet Iron Works, Indianapolis, Ind.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**ST. PAUL ROOFING, CORNICE &** Ornament Co. (Galvanized Steel), St. Paul, Minn. (See adv. index, end of book)
Snyder Steel & Iron Works Co., Kansas City, Mo.
Standard Boiler & Plate Iron Co., Niles, O.
Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
Tulsa Boiler & Sheet Iron Works, Tulsa, Okla.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11357—Tanks (Hard Rubber)

American Hard Rubber Co. (For Chemical Plants, etc.), 9 Mercer, New York

## 11357a—Tanks (High Pressure)

(See Tanks, Pressure)

## 11358—Tanks (Hot Water)

**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## Tanks (Hydrogen & Oxygen)

(See Cylinders, Hydrogen & Oxygen)

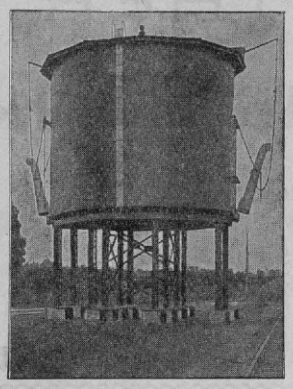
## 11359—Tanks (Hydro-Pneumatic)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## 11360—Tanks (Indurated Fibre)

United Indurated Fibre Co. (of N. J.) (For High Tension Oil Switches), Lockport, N. Y.

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SOAP WORKS
GRAIN PLANTS
COTTON SEED OIL PLANTS

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WARREN, OHIO

## 11361—Tanks (Iron & Steel)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Abendroth & Stein (Inc.), 39 Cortlandt, New York
Aermotor Co. (Steel Only), Campbell av, nr 12th, Chicago, Ill.
Air-Tight Steel Tank Co., Pittsburg, Pa.
Allentown Boiler Works (Collum & Knouse, Props.), Allentown, Pa.
American Boiler Works, Louisville, Ky.
American Bridge Co., Frick bldg, Pittsburg, Pa.
Atlas Metal Works, Dallas, Tex.
Aurora Boiler Works, Aurora, Ill.
Avery Stamping Co., Cleveland, O.
Baker Mfg. Co., Evansville, Wis.
**BALTIMORE COOPERAGE CO., THE.** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bartlett, A. F. & Co., Saginaw, Mich.
Bartlett, Hayward & Co., Baltimore, Md.
Basshor, Thos. C. Co., Baltimore, Md.
Biggs Boiler Works Co., Akron, O.
Birmingham Boiler Works, Birmingham, Ala.
Borger Bros. Co., Columbus, O.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Brennan, John & Co., Detroit, Mich.
Bridgeport Boiler Works Co., Bridgeport, Conn.
Briscoe Mfg. Co., Detroit, Mich.
Buckeye Boiler Co., Dayton, O.
Bushnell Tank Works, Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Cambridge Iron Works, Cambridge, Mass.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Carroll-Porter Boiler & Tank Co., Empire bldg, Pittsburg, Pa.
Casey-Hedges Co., Chattanooga, Tenn.
Central Boiler Works, Detroit, Mich.
Chicago Bridge & Iron Works (Horace E Horton, Prop.), W 105th & Throop, Chicago, Ill.
Childs, S. D. & Co. (Brass, Steel & Aluminum), 200 Clark, Chicago, Ill.
Coatesville Boiler Works, Coatesville, Pa.
Cole, R. D. Mfg. Co., Newnan, Ga.
Columbiana Boiler Co., Columbiana, O.
Columbus Steam Boiler & Heater Co., Columbus, O.
Connellsville Iron Works, Connellsville, Pa.
Connery & Co., 9th & Master, Phila., Pa.
Conroy Boiler & Tank Works, 46th & Hoyne, Chicago, Ill.
Crooks-Kries & Co., Balto, Md.
Cruse-Kemper Co. (Oil & Water), Ambler, Pa.
Deily & Fowler (Oil & Water, etc.), 39 Laurel, Phila., Pa.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Dover Boiler Works, Dover, N. J.
Drake-Williams-Mount Co., Omaha, Neb.
Dubois Iron Works, Dubois, Pa.
Duff Patents Co., Frick bldg, Pittsburg, Pa.
East Jersey Pipe Co., Paterson, N. J.
Entyre, E. L. & Co., Oregon, Ill.
Erie City Iron Works, Erie, Pa.
Ervien, Chas. W. & Co., Venango & G, Phila., Pa.
Fargo Foundry Co., Fargo, N. D.
Folsom, C. G. Mfg. Co., South Bend, Ind.
Franklin Boiler Works Co., Green Island, Troy, N. Y.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GODFREY-KEELER CO., 70 Warren,** New York (See adv. index, end of book)
Golley & Finley Iron Works, Lima, O.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**GRISCOM-SPENCER CO., 90 West,** New York (See adv. index & branch offices, end of book)
Hamler Boiler & Tank Co., 39th & Halsted, Chicago, Ill.
**HAMMOND IRON WORKS (Steel),** Warren, Pa. (See adv. index & branch offices, end of book)
Harlan & Hollingsworth Corp., ft West st., Wilmington, Del.
Harrisburg Fdry. & Mach. Works, Harrisburg, Pa.
Harry, O. K. Steel Co., St. Louis, Mo.
Hartley Boiler Works, Montgomery, Ala.
Heggie, Jas. G. Joliet, Ill.
Heil Co., Milwaukee, Wis.
Heilman Boiler Works, Allentown, Pa.
Hendrick Mfg. Co., Carbondale, Pa.
**Hibbs, E. A. (Oil, Drip, Blow-Off, Storage, etc.), 213 Quarry,** Phila., Pa.
Hodge Boiler Works, Boston, Mass.
Honhorst, Joseph Co., Cincinnati, O.
Honolulu Iron Works Co., Honolulu, Hawaii
Jackson-Church-Wilcox Co., Saginaw, Mich.
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
Jarvis Engine & Machine Works, Lansing, Mich.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Keeler, E. Co., Williamsport, Pa.
Kehoe Iron Works, Savannah, Ga.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Kiechler Mfg. Co., Cincinnati, O.

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CANTON, OHIO



Steel Riveted Pipe, Steel Stacks, Penstocks

Steel Tanks of All Descriptions

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**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Kroeschell Bros. Co., 440 W Erie, Chicago, Ill.
Lake Erie Boiler Works, Buffalo, N. Y.
Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburg, Pa.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end
Leetonia Boiler Co., Leetonia, O. of book)
Leslie, Elliott & Co., Paterson, N. J.
Littleford Bros. (Oil & Water), Cincinnati, O.
Logan Iron Works, 42 Commercial, Brooklyn, N. Y.
Long, Walter Mfg. Co., Pittsburg, Pa.
Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
Love Bros. (Inc.), Aurora, Ill.
McAllister-Byrne Construction Co., Girard, O.
McDermott Engineering Co., Allentown, Pa.
McDonnell Boiler & Iron Works, Des Moines, Ia.
McIlvain & Spiegel Boiler & Tank Co., Cincinnati, Ohio
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
McNaull Boiler Mfg. Co., Toledo, O.
McNeil, Jas. & Bro. Co., 29th & A. V. Ry, Pittsburg, Pa.
Manitowoc Engineering Works, Manitowoc, Wis.
Massillon Bridge & Structural Co., Massillon, Ohio
Meehan Boiler & Construction Co., Lowellville,
Mertes-Miller Co., Milwaukee, Wis. Ohio
**MEYERS, FRED. J. MFG. CO., Ham-**ilton, O. (See adv. index, end of book)
Meyers, Otto C. & Co., 30 Franklin, Brooklyn, N. Y.
**MICHELMANN STEEL CONSTRUC-**tion Co., Quincy, Ill. (See adv. index, end of book)
Milwaukee Boiler Co., Milwaukee, Wis.
**MINNEAPOLIS STEEL & MACHIN-**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Munroe, R. & Son Corp., Pittsburg, Pa.
Murphy & Donnelly Boiler Co., Cleveland, O.
Muskegon Boiler Works, Muskegon, Mich.
National Boiler & Sheet Iron Works, Indianapolis, Ind.
Newbold, R. S. & Son Co., Norristown, Pa.
Niles Steel Tank Co., Niles, Mich.
New York Central Iron Works Co., Geneva, N. Y.
Novelty Steam Boiler Works (Triplett & Jennings, Props.), 917 Howard, Baltimore, Md.
O'Brien, John Boiler Works Co., St. Louis, Mo.
Odlum-Taylor Boiler Co. (Steel), Memphis, Tenn.
Oil City Boiler Works (Inc.), Oil City, Pa.
Oldman Boiler Works (Steel Only), 38 Illinois, Buffalo, N. Y.
Optenberg Iron Works Co., Sheyboygan, Wis.
Pacific Tank & Pipe Co., San Francisco & Los Angeles, Cal.
Parkersburg Tank Co., Bartlesville, Okla.
Penn. Bridge Co., Beaver Falls, Pa.
Penna. Boiler Works, Erie, Pa.
Penna. Steel Co. (Steel), Steelton, Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Petty, J. K. & Co., Stephen Girard bldg. Phila., Pa. Works: Lebanon, Pa.
Pfeiffer, Chris. Boiler Co., 223 W Michigan, Chicago, Ill
Philadelphia Iron Works, 18th & Penna av,
Phoenix Iron W'ks. Portland, Ore. Phila., Pa
Phoenix Iron Works Co., Meadville, Pa.
Pollock, Wm. B. Co., Youngstown, O.
Porter Foundry & Machine Co., Pittsburg, Pa
Portland Co., Portland, Me.
Pusey & Jones Co., Wilmington, Del.
**REEVES BROS. CO., Alliance, O** (See adv. index, end of book)
Renneburg, E. & Sons Co., Baltimore, Md.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Robb Engineering Co. (Inc.), S. Framingham, Mass.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Rockford Boiler & Steel Co., Rockford, Ill.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**RUGGLES-COLES ENGINEERING** Co., 48 Church, New York. (See adv. index & branch offices, end of book)
St. Paul Boiler & Mfg. Co., St. Paul, Minn.
Saginaw Sheet Metal Works (Capacity 10 to 250 Gal.), Saginaw, Mich.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Scannell Boiler Works, Lowell, Mass.
**SCHREIBER, L. & SONS CO., 8th &** Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index & branch offices, end of book)
Scioto Boiler Works, 33 N Scioto, Columbus, O.
Sharkey & Peck, 2433 W 18th, Chicago, Ill.
Sharon Boiler Works, Sharon, Pa.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Skinner Ship Building & Dry Dock Co., Baltimore, Md.
Smith, Samuel & Son Co., Paterson, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Specialty Engineering Co. (Steel), Phila., Pa.
Springfield Boiler & Mfg. Co. (Steel), Springfield, Ill.
Stacey Mfg. Co., Elmwood pl, Cincinnati, O.
Standard Boiler Works, Seattle, Wash.
Standard Boiler & Plate Iron Co. (Steel), Niles, O.
Star Boiler & Sheet Iron Works, Denver, Colo.
**STRUTHERS-WELLS CO. (Of All** Descriptions), Warren, Pa. (See adv. index, end of book)
Sutter Bros., Pottstown, Pa.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end
Tippett & Wood, Phillipsburg, N. J. of book)
Titusville Iron Co., Titusville, Pa.
Tofte Boiler & Sheet Iron Works, Houston, Tex.
Treadwell Construction Co., Midland, Pa.
Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
Triumph Ice Machine Co. (Ice), Cincinnati, O.
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.
**Tulsa Boiler & Sheet Iron Works,** Tulsa, Okla.
Turl's Jno. Sons (Inc.), 26 Cortlandt, New York; Works: Newburgh, N. Y.
Union Boiler Works, Columbus, O.
Union Boiler & Mfg. Co., Lebanon, Pa.
Union Iron Works, Erie, Pa.
Union Iron Works Co., San Francisco, Cal.
United Iron Works Co., Springfield, Mo.
Variety Iron & Steel Works Co., Cleveland, O.
Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.
Wagner, Jos. F. Boiler & Sheet Iron Co., 1547 N 9th, St. Louis, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of
Warren Construction Co., Warren, O. book)
Waterloo Mfg. Co., Waterloo, Ia.
Watson, Jas. H. Co. (Inc.), Bradley, Ill.
Webber Iron Works, Birmingham, Ala.
Weigele, Wm. A. Steel Pipe Works, Denver, Colo.
Western Pipe & Steel Co., Los Angeles, Cal.
**WILFONG, MILLARD F. IRON** Works Co., 52d & Grays av, Phila, Pa. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)
**WORDEN-ALLEN CO., P. O. Box 528** Milwaukee, Wis. (See adv. index & branch offices, end of book)
York Ice Machine Co., York, Pa.

## 11362—Tanks (Jacketed)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11362a—Tanks (Knock-Down)

Harry Bros. Co. ("Harry's", Galvanized Steel), Newport, Ky., & New Orleans, La.

## 11363— Tanks (Lead)

**BADGER, E. B. & SONS CO. (Also** Lead Lined), 75 Pitts, Boston, Mass. (See adv. index, end of book)
Colwell Lead Co., 109 Lafayette, New York
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 11364—Tanks (Lighting System)

Avery Portable Lighting Co. ("Autogas"), Milwaukee, Wis.
Avery Stamping Co. ("Never Break" Steel), Lake & Coe, Cleveland, O.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**PRESSED STEEL TANK CO., Milwaukee,** Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)

## 11365—Tanks (Lubricating Oil Storage)

(See also Cabinets, Oil)

**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Delphos Mfg. Co. (Non-Overflowing), Delphos, Ohio
**GILBERT & BARKER MFG. CO.,** Springfield, O. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
National Pump & Tank Co., Dayton, O.
O'Brien, John Boiler Works Co., St. Louis, Mo.
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Turner Oil Filter Co. ("Turner"), Niles, Mich.
Wall. P. Mfg. & Supply Co., Pittsburg, Pa.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
Western Oil Pump Co., St. Louis, Mo.
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)
Wilson & Friend Co. ("Acme"), 3136 S Canal, Chicago, Ill.

## 11366— Tanks (Malt)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## 11367— Tanks (Mixing)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
**BALTIMORE COOPERAGE CO., THE** (Wooden Mixing), cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS CO., War-**ren, Pa. (See adv. index & branch offices, end of book)

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**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11368– Tanks (Molasses)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Connery & Co., 9th & Master, Phila., Pa.
Chicago Bridge & Iron Works, Chicago, Ill.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Harry Bros. Co. ("Harry's", Corrugated Galvanized Steel), Newport, Ky., & New Orleans, La.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
Standard Boiler & Plate Iron Co., Niles, O.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Treadwell, M. H. Co., 90 West, New York. Works, Lebanon, Pa.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11369–Tanks (Motor Boat)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11370– Tanks (Muffle)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st av,** Pittsburg, Pa. (See adv. index, end of book)

## 11371–Tanks (Naphtha)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## 11372–Tanks (Oil Storage)

(See also Tanks, Lubricating Oil Storage)
**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
American Oil Pump & Tank Co., Dayton, O.
Anderson Tool Co. (Self Measuring), Anderson, Ind.
Aurora Boiler Works (Inc.), Aurora, Ill.
Bartlett, Hayward & Co., Baltimore, Md.
Blanke, W. F. Can & Mfg. Co., St. Louis, Mo.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bowser, S. F. & Co. (Inc.) (Paint Lubricants), Fort Wayne, Ind.
Buckeye Boiler Co., Dayton, O.
Bushnell Tank Works (Steel & Wood), Bushnell, Ill.
**CALDWELL, W. E. CO. (500 to** 100,000 Gallons), Brook & D, Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Niles, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Connery & Co., 9th & Master, Phila., Pa.
Chicago Bridge & Iron Works, Throop & 105th, Chicago, Ill
Chicago Steel Tank Co., 733 S Halsted, Chicago, Ill.
Connelly, D. Boiler Co. (Oil Transportation), Cleveland, O.
Cruse-Kemper Co., Ambler, Pa.
Deily & Fowler, 39 Laurel, Phila., Pa.
Delphos Mfg. Co. (Non-Overflowing), Delphos, O.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Eastern Oil Tank Co., Lowell, Mass.
Gas Machinery Co. (Storage), Cleveland, O.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker"), Springfield, Mass. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Harry Bros. Co. ("Harry's", Corrugated Galvanized Steel), Newport, Ky., & New Orleans, La.
Hydraulic Oil Storage Co., Detroit, Mich.
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
Lacy Mfg. Co., Los Angeles, Cal.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Monarch Engineering & Mfg. Co., Baltimore, Md.
National Supply Co. (Fuel Oil Storage), 416 W Indiana, Chicago, Ill.
New York Central Iron W'ks Co., Geneva, N. Y.
Petty, J. K. & Co., Stephen Girard Bldg, Philadelphia, Pa. (Works, Lebanon, Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, Ohio.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**ROCKWELL FURNACE CO. (Cylin**drical Style), 26 Cortlandt, New York. (See adv. index, end of book)
**ROCKWELL, W. S. CO. (Cylindrical** Style), 50 Church, New York. (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st av,** Pittsburg, Pa. (See adv. index, end of book)
Sharon Boiler Works, Sharon, Pa.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Standard Boiler & Plate Iron Co., Niles, O.
Star Boiler & Sheet Iron Works, Denver, Colo.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Teachout, H. E. Boiler Works, Cleveland, O.
Treadwell, M. H. Co., 90 West, New York. Works, Lebanon, Pa.
Tudor Boiler Mfg. Co., 175 E 3d, Cincinnati, O.
United Iron Works Co., Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11373–Tanks (Oil Switch)

**JOHNS, H. W.-MANVILLE CO. ("J-**M" Fibre), 100 William, New York. (See adv. index & branch offices, end of book)

## 11373a–Tanks (Oil Wagon)

**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)

## Tanks (Oxygen)

(See Cylinders, Hydrogen & Oxygen)

## 11374–Tanks (Pneumatic Water)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bushnell Tank Works, Bushnell, Ill.
**CANTON BOILER & ENGINEERING** Co., Canton, Ohio. (See adv. index, end of book)
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index, & branch offices, end of book)
Fort Wayne Engineering & Mfg. Co., Fort Wayne, Ind.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Kewanee Water Supply Co., Kewanee, Ill.
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Modern Water Supply Co., Pittsburg, Pa.
National Steel Tank Co., Pekin, Ill.
New York Central Iron Works Co., Geneva, N. Y.
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221 1st** ave., Pittsburg, Pa. (See adv. index, end of book)
**THOMAS & SMITH (Inc.) ("Econo-**my"). 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)
Tudor Boiler Mfg. Co., 175 E 3d, Cincinnati, O.

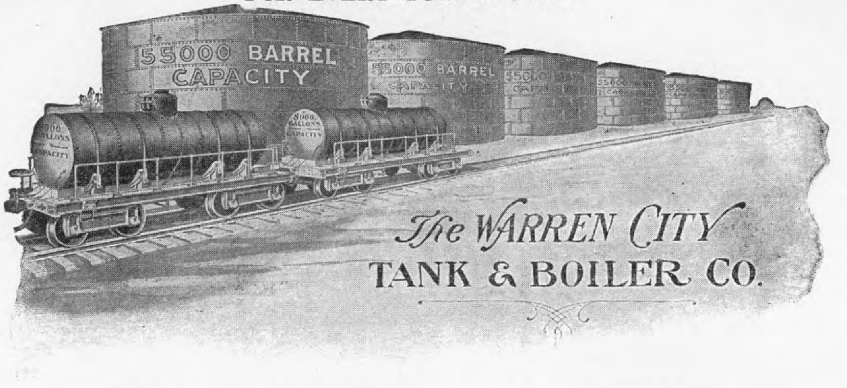
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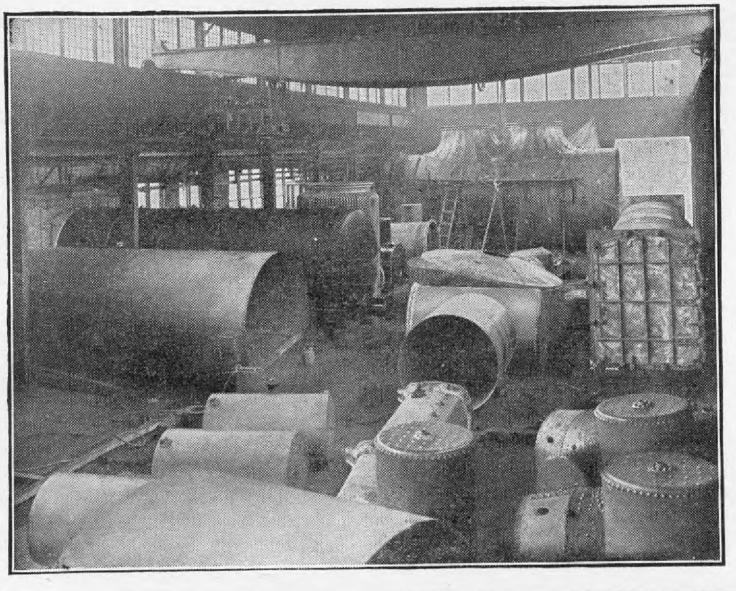
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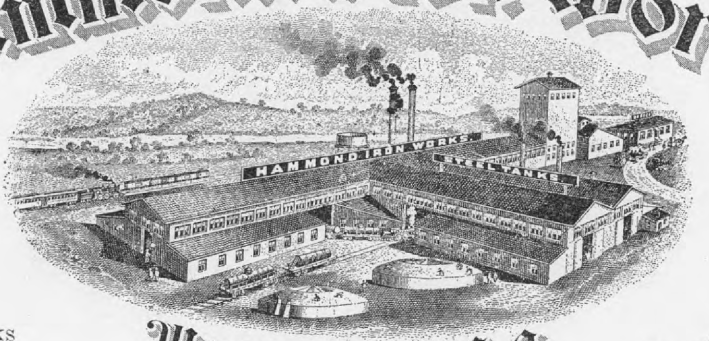
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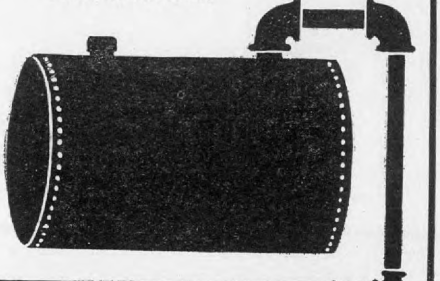
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## 11375—Tanks (Pressed Steel)

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Federal Pressed Steel Co., Milwaukee, Wis.
Heggie-Woodruff Pressed Steel Co., Joliet, Ill.
Nortmann-Duffke Foundry Co., Milwaukee, Wis.
**PRESSED STEEL TANK CO., Milwaukee,** Wis. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO. (Oil,** etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

## 11376—Tanks (Pressure)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Welding Co. (Seamless Welded), Carbondale, Pa.
Aurora Boiler Works (Inc.), Aurora, Ill.
**BALTIMORE COOPERAGE CO., THE,** (Wood), cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Buckeye Boiler Co., Dayton, O.
Bushnell Tank Works, Bushnell, Ill.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Connery &, Co., 9th & Master, Phila., Pa.
East Jersey Pipe Co., Paterson, N. J., & 50 Church, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Heggie-Woodruff Pressed Steel Co. (Seamless Pressed Steel), Joliet, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Leslie, Elliott & Co., Paterson, N. J.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
**MICHELMANN STEEL CONSTRUC-**tion Co., Quincy, Ill. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
New York Central Iron Works Co., Geneva, N. Y.
O'Brien, John Boiler Works Co., St. Louis, Mo.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**PRESSED STEEL TANK CO., Milwaukee,** Wis. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st av,** Pittsburg, Pa. (See adv. index, end of book)
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
Smith, Samuel & Son Co., Paterson, N. J.
Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.
Standard Boiler & Plate Iron Co., Niles, O.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Treadwell, M. H. Co., 90 West, New York. Works, Lebanon, Pa.
Tudor Boiler Mfg. Co., 175 E 3d, Cincinnati, O.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11377—Tanks (Printers' Ink)

**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 11378—Tanks (Railroad Water)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index & branch offices, end of book
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Challenge Co., Batavia, Ill.
Connery & Co., 9th & Master, Phila., Pa.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, O.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Commonwealth bldg, Pittsburg, Pa. Works; Queens Junction, Pa.
**SCAIFE, WM. B. & SONS CO., 221** 1st ave., Pittsburg, Pa. (See adv. index, end of book)
Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11379—Tanks (Refrigerator, Porcelain Lined)

Marietta Hollow Ware & Enameling Co., Marietta, O.

## 11380—Tanks (Reinforced Concrete)

**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)

## 11381—Tanks (Rendering)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Marietta Hollow Ware & Enameling Co., Marietta, Ohio
National Boiler & Sheet Iron Works, Indianapolis, Ind.
O'Brien, John Boiler Works Co., St. Louis, Mo.
Ohio Blower Co., Cleveland, O.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Smith's, Jno. E. Sons Co. (Steam Jacketed, for Lard, Tallow, Grease, etc.), Buffalo, N. Y.
Smith, Samuel & Son Co., Paterson, N. J.
Snyder Steel & Iron Works Co., Kansas City, Mo.


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## SEAMLESS STEEL TANKS

"CATALOGUE B"

## SEAMLESS STEEL BILGED BARRELS

"CATALOGUE C"


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Standard Boiler & Plate Iron Co., Niles, O.
Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
Tudor Boiler Mfg. Co., 175 E 3d, Cincinnati, O.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11381a—Tanks (Rubber Cement)

**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)

## 11382—Tanks (Sand Storage)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11383—Tanks (Seamless Steel)

American Welding Co. (Welded), Carbondale, Pa.
Heggie-Woodruff Pressed Steel Co., Joliet, Ill.
Janney, Steinmetz & Co. (Cold Drawn), 4th & Market, Phila., Pa.
Keim, Jno. R. Mills (Inc.) (Special Shapes), Buffalo, N. Y.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**PRESSED STEEL TANK CO. (Also** Seamless Cylinders), Milwaukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221 1st** av, Pittsburg, Pa. (See adv. index, end of book)
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 11384—Tanks (Seamless Steel Fire Extinguisher)

**PRESSED STEEL TANK CO., Milwaukee,** Wis. (See adv. index, end of book)

## 11385—Tanks (Sectional)

Stuart & Peterson Co. (Porcelain Lined or Plain Iron), Burlington, N. J.

## 11386—Tanks (Setting Septic for Sewage Disposal)

**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)

## 11386a—Tanks (Sheep Dipping)

**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Chicago Steel Tank Co., 733 S Halsted, Chicago, Ill.

## 11387—Tanks (Slurry)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Snyder Steel & Iron Works Co., Kansas City, Mo.
United Iron Works Co. (For Cement Plants for Mixing Shale, etc.), Springfield, Mo.

## 11388—Tanks (Soap)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 11389—Tanks (Soda Fountain)

Avery Stamping Co. ("Never Break" Steel), Lake & Coe, Cleveland, O.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Heggie-Woodruff Pressed Steel Co. (Seamless Pressed Steel), Joliet, Ill.


**Hendricks' Commercial Register**

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.


**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**PRESSED STEEL TANK CO. (Pressed Steel),** Milwaukee, Wis. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)

## 11390—Tanks (Sprinkler)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Challenge Co., Batavia, Ill.
Connery & Co., 9th & Master, Phila., Pa.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
Tudor Boiler Mfg. Co., 715 E 3d, Cincinnati, O.

## 11391—Tanks (Steel, Glass Enameled)

Detroit Steel Cooperage Co. (Also Chip Casks, Fermenting Tubs, etc.), Detroit, Mich.
Pfaudler Co., Cutler bldg, Rochester, N. Y.

## 11392—Tanks (Steel, Glass Lined)

(See Tanks, Steel, Glass Enameled)

## 11393—Tanks (Steel, Hot Water Storage)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
American Radiator Co. (Black & Galvanized), 282 Michigan av, Chicago, Ill.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East Chicago,** Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
New York Central Iron Works Co., Geneva, N. Y.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av., Pittsburg, Pa. (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
United Iron Works Co., Springfield, Mo.

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## 11394—Tanks (Storage, Etc.)

American Boiler Works, Louisville, Ky.
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
Bushnell Tank Works, Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Collins Iron Works (Black & Galvanized, Phelps, N. Y.
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Connery & Co., 9th & Master, Phila., Pa.
Connolly, D. Boiler Co., Cleveland, O.
Corcoran, A. J. (Inc.), 11 John, New York
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Enameled Pipe & Engineering Co. (Steel Enameled, Acid & Alkali Proof, 10 to 1700 Gallons), Elyria, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gedge Bros. Iron Roofing Co. (Galvanized Steel), Anderson, Ind.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GILBERT & BARKER MFG. CO.** ("Gilbert & Barker" Underground Storage), Springfield, Mass. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Harry Bros. Co. ("Harry's" Corrugated Galvanized Steel), Newport, Ky., & New Orleans, La.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KEWANEE BOILER CO., Kewanee,** Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Manitowoc Engineering Works, Manitowoc, Wis.
Meehan Boiler & Construction Co., Lowellville, Ohio
Muskegon Boiler Works, Muskegon, Mich.
National Boiler & Sheet Iron Works, Indianapolis, Ind.
Niles Steel Tank Co. (Galvanized Steel, Knocked Down), Niles, Mich.
O'Brien, John Boiler Works Co., St. Louis, Mo.
Pacific Tank & Pipe Co. (Wood, Mining & Storage), San Francisco, Cal., & Los Angeles, Cal.
Perkins Wind Mill Co., Mishawaka, Ind.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Sharon Boiler Works, Sharon, Pa.
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
Tolhurst Machine Works, Troy, N. Y.
United Iron Works Co., Springfield, Mo.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11395—Tanks (Sugar House)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Goetz & Flodin Mfg. Co., 1802 Clybourne av, Chicago, Ill.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**RODGERS BOILER & BURNER CO.,** Muskegon, Mich. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11396—Tanks (Tanners')

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
National Engineering Co. (Wood), Saginaw, Mich.
**RODGERS BOILER & TANK CO.,** Muskegon, Mich. (See adv. index, end of book)

## 11397—Tanks (Tar, Ammonia Liquor)

**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Gas Machinery Co., Cleveland, O.
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11398—Tanks (Tempering)

**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 11398a—Tanks (Tender)

**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)

## 11399—Tanks (Transportation)

**ABENDROTH & ROOT MFG. CO.,** Newburgh, N. Y. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11399a—Tanks (Turpentine)

**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)

## 11399b—Tanks (Varnish)

**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)

## 11399c—Tanks (Vulcanizing)

**GODFREY-KEELER CO., 70 Warren,** New York. (See adv. index, end of book)

## 11400—Tanks (Water Closet)

(See also Plumbers' Woodwork)

Berkstresser, Thos. J. Co. (Vitreous), 1006 Filbert, Phila., Pa.
Blairsville Enameled Ware Co. ("American" Enameled Iron), Blairsville, Pa.
Columbus Brass Co. (All Metal), Columbus, O.
Coyne & Delaney ("C. & D." Safety Locking Tank & Ball Cock), 832 Kene av, Brooklyn, N. Y.
Enameled Tank Co. (White Porcelain Enameled Iron), Kalamazoo, Mich.
Fleck Bros. Co. (Vitreous China), Phila., Pa.
Great Western Pottery Co. ("Waverline" Vitreous China), Kokomo, Ind.

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Keeley, Jas. J. (Sheet Iron), Jackson, Mich.
Lipp. Louis Co. (Enameled Iron), Cincinnati, O.
Phoenix Pottery Co. (Vitreous China), Bordentown, N. J.
Pittsburg Sanitary Mfg. Co. ("Steel King," Enameled Steel), Pittsburg, Pa.
**SCAIFE, WM. B. & SONS CO. (Steel),** 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Standard Sanitary Mfg. Co. (Enameled Iron), Pittsburg, Pa.
Trenton Potteries Co. ("Impervio," Vitreous China), Trenton, N. J.
Van Arman Mfg. Co., Fort Wayne, Ind.

## 11401—Tanks (Water, Mounted on Wheels)

Acme Road Machinery Co. (For Steam Rollermen & Others), Frankfort, N. Y.
Advance Thresher Co., Battle Creek, Mich.
Aultman & Taylor Mach'y Co., Mansfield, O.
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Case, J. I. Threshing Machine Co. (Steel), Racine, Wis.
Farquhar, A. B. Co., York, Pa.
Gaar, Scott Co., Richmond, Ind.
Huber Mfg. Co., Marion, O.
Kelly Mfg. Co., Waterloo, Ia.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Nichols & Shepard Co. (Wood), Battle Creek, Mich.
Perkins Wind Mill Co., Mishawaka, Ind.
Robinson & Co., Richmond, Ind.

## 11402—Tanks (Water Storage)

**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**HAMMOND IRON WORKS, Warren,** Pa. (See adv. index & branch offices, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11403—Tanks (Welded)

American Welding Co. (Seamless), Carbondale, Pa.
Best Mfg. Co., Pittsburg, Pa.
Bowser, S. F. & Co. (Inc.), Fort Wayne, Ind.
**JACKSON MFG. CO., 50 Church, New** York. (See adv. index & branch offices, end of book)
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
**STRUTHERS-WELLS CO., Warren,** Pa. (See adv. index, end of book)
**WARREN CITY TANK & BOILER** Co., Warren, O. (See adv. index, end of book)

## 11403a—Tanks (Whistle)

**BALTIMORE COOPERAGE CO., Cor.** Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 11404—Tanks (Windmill)

(See also Windmill Mfrs.)
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bushnell Tank Works, Bushnell, Ill.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 491** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)

## 11405—Tanks (Wood)

Aermotor Co., Campbell av nr 12th, Chicago, Ill.
Albrecht, Fred'k, W., Pratt & Smallwood, Baltimore, Md.
American Mfg. Co., 2121 Louisiana av, New Orleans, La.
Baker Mfg. Co., Evansville, Wis.
Baltimore Barrel & Tank Co., Baltimore, Md.
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Becker Tank Mfg. Co. (Inc.), 255 N Henry, Brooklyn, N. Y.
Burkhardt's, Geo. J. Sons, 2831 N Broad, Philadelphia, Pa.
Bushnell Tank Works (Red, Cypress, Tongued, Grooved or Plain), Bushnell, Ill.
Butler Co., Butler, Ind.
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)
Challenge Co., Batavia, Ill.
Clippinger, A. B. & Son Co., Kansas City, Mo.
Corcoran, A. J. (Inc.), 11 John, New York
Dallas Cooperage & Woodenware Co., Dallas, Tex.
Davis, G. M. & Son (Cypress Tanks, Tubs & Vats), Palatka, Fla.
Dunck Tank Works (Vats), Milwaukee, Wis.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Flemming Tank Co., Pittsburg, Pa.
Flint & Walling Mfg. Co., Kendallville, Ind.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gray's Harbor Commercial Co. (Fir), Cosmopolis, Wash., & 237 California, San Francisco, Cal.
Hagerty Bros. Co., Peoria, Ill.
Hall, Amos H. Son & Co. ("Cedar," etc.), 2915 No. 2nd, Phila, Pa.
Hauser, Brenner & Fath Co., Cincinnati, O.
Hayes Pump & Planter Co., Galva, Ill.
Hooper, C. A. Co., San Francisco, Cal.


# Hendricks' Commercial Register

OF THE

UNITED STATES

Price, Ten Dollars | Express Charges Prepaid | ESTABLISHED 1891

It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of Trade that comes within the Scope of the Work.

Price, Ten Dollars | Express Charges Prepaid | ESTABLISHED 1891

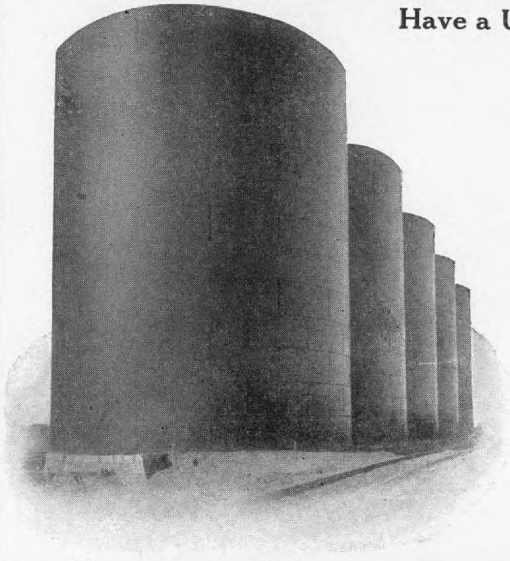
## For Buyers and Sellers

PUBLISHED ANNUALLY BY

**S. E. Hendricks Co., 74 Lafayette Street, New York City**


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# GRAVER STEEL TANKS and PLATE WORK



**Have a Universal Reputation derived from an Unparalleled Record of 40 Years' Standing**

**GUARANTEED WORK means GUARANTEED SATISFACTION**

We have been producing both for 40 years. There is but one grade of Graver quality—**BEST.**

**SPECIALIZATION IS THE HEART OF GRAVER TANK AND PLATE WORK SUCCESS**

For 40 years we have specialized in plate work of all kinds—Oil Refineries, Water Works, Gas Plants, Mining Plants, including Steep Tanks, Penstocks, Cylinder Tanks, Steel Stacks, Riveted Pipe, etc.

**We also build and control the celebrated BARTLETT-GRAVER SYSTEM OF WATER SOFTENING AND PURIFICATION**

Your name brings the details to your desk.

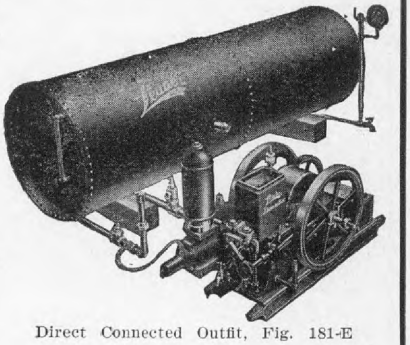
**WM. GRAVER TANK WORKS - East Chicago, Ind.**

DENVER: 1178 California St. SALT LAKE CITY: 523 Newhouse Building LOS ANGELES: 312 Security Building

# For Every Water Supply Need

in suburban and country homes, hospitals, country clubs, county farms, cemetries, isolated schools and other public buildings, as well as for increasing city pressure and furnishing soft water in flat building, factory and city home, there is available a complete pneumatic

## Leader Water System

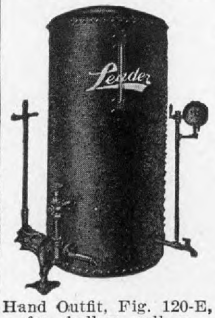


Direct Connected Outfit, Fig. 181-E

As the tank is placed in basement or underground, danger from freezing is eliminated. Nothing to decay or leak—the life of the outfit is as long as the building. High pressure for daily use and fire protection are assured.

Send for Catalog **E**, giving full information. Complete *Leader Water Systems* and tanks are in stock at Decatur, Ill. and Owego, N. Y., and warehouse stocks are carried at Kansas City, Mo., Ft. Dodge, Iowa, St. Paul, Minn., Denver, Col., Portland, Ore., Spokane and Seattle, Wash.

In addition to complete *Leader Water Systems* and Pneumatic Tanks we manufacture:



Hand Outfit, Fig. 120-E, for shallow well or cistern.

Hot Water Storage
Extra Heavy Storage
High Duty Storage
Galvanized Steel

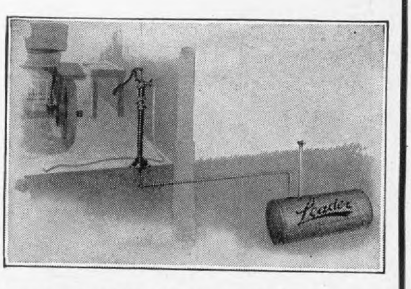
**TANKS**

Gasoline Storage Outfits
Steam Water Heaters
Air Receivers
Specials of every kind

## Leader Iron Works

**201 JASPER ST., DECATUR, ILL. and OWEGO, N.Y.**

New York City Office. 15 William St. Chicago Office, Monadnock Block



Leader Gasoline Storage Outfit, Fig. 125-E

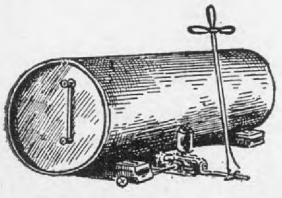

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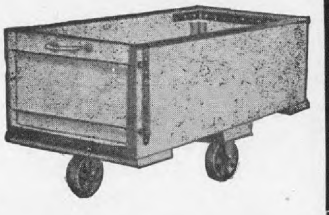


**Tanks, Towers, Silos**
**Water Works Systems**
**Trucks for Special**
**Purposes to Convey**
**Liquids and Solids**



ALL SIZES TO ORDER





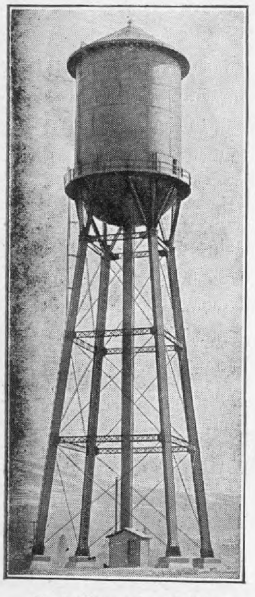
THE BALTIMORE COOPERAGE CO.

Hanover and Creek Streets

BALTIMORE = = MARYLAND

# STEEL TANKS & TOWERS

## ALL OVER THE U. S.



Fort Missoula, Mont.
Height, 156 feet.
Capacity, 300,000 gals.

stand as testimonials of the high character of work done by us during the past twenty years for Water Works Plants, Railways and Sprinkler Systems.

We are also builders of Structural Steel Work for Buildings, Bridges, Steel Barges, Steel Pipe, Smoke Stacks, Derricks, Cranes and Steel Structures for any purpose.

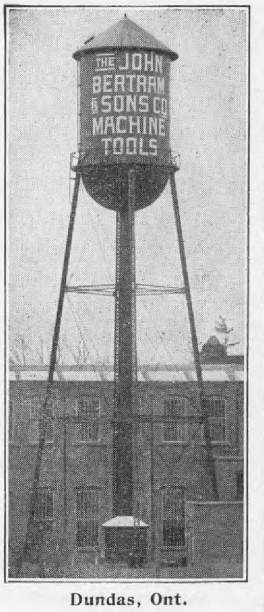
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*Our Catalog No. 12 contains valuable tables for Engineers.*

## DES MOINES BRIDGE & IRON CO.

**DES MOINES, IOWA**
NINTH AND TUTTLE STREETS

**PITTSBURG, PA.**
FOURTH AND ROSS STREETS




Dundas, Ont.
Height, 110 feet.
Capacity, 76,000 gals.

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Johnson & Carlson, 848 Eastman, Chicago, Ill.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Ketter, Fred, Cooperage Works, Milwaukee, Wis.
Kimball-Tyler Co., Baltimore, Md.
National Engineering Co., Saginaw, Mich.
Michel Cooperage Co., Sandusky, O.
Minnesota Tank Co., 1415 S E 8th, Minneapolis, Minn.
Moline Pump Co., Moline, Ill.
National Cooperage Co., Ridgewood, Borough Queens, New York City
Northwestern Wind Engine Co., 110 3d av, Minneapolis, Minn.
Pacific Mfg. Co. (Redwood), Santa Clara, Cal.
Pacific Tank & Pipe Co. (Cedar & Pine for Water, Oil, Mining, Cyanide, etc.), San Francisco, Cal., & Los Angeles, Cal.
Pierce, W. E. & Co., Milford, N. H.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Quitman Cooperage Co., Quitman, Ga.
Reed & Sherwood, Anoka, Minn.
Redwood Mfrs. Co. (Cal. Redwood), Balboa bldg, San Francisco, Cal.
Riggs Cypress Co. (Cypress), Patterson, La.
Roberts, T. W., Bradford, Pa.
Shlichter, E. F., 10 S 18th, Phila., Pa.
Schwarzwalder, J. & Sons, 32 Stone, New York
Selden Cypress Door Co. (Cypress), Palatka, Fla.
Severence Tank & Silo Co., Lansing, Mich.
Smith, John M. & Sons, 1429 Spring Garden, Phila., Pa.
**STEARNS, A. T. LUMBER CO., Neponset**, Boston, Mass. (See adv. index, end of book)
Stecher Cooperage Works, 3d & Barton, St. Louis, Mo.
Stevens Tank & Tower Co. (Pine or Cypress), Auburn, Me.
Stolper, Chas. Cooperage Co., 664 4th, Milwaukee, Wis.
Tranor's, O. J. Son, New Iberia, La.
Twin City Tank, Silo & Specialty Co., Minneapolis, Minn.
U. S. Wind Engine & Pump Co. ("Halladay" Standard), Batavia, Ill.
Washington Pipe & Fdry. Co., Tacoma, Wash.
Watson, Earl, Bradford, Pa.
Wendnagel & Co., 22nd & Union, Chicago, Ill
Western Cooperage Co., Portland, Ore.
Wooden Package Mfg. Co., Omaha, Neb.
Woodmanse Mfg. Co., Freeport, Ill.
Woolford, Geo. Wood Tank Mfg. Co. (Cedar & Cypress), 1429 Chestnut, Phila., Pa.

## 11406—Tanks (Wooden Brine)

**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**CALDWELL, W. E. CO., Brook & D,** Louisville, Ky. (See adv. index, end of book)

## 11407—Tanks & Cylinders (Cement)

Aurora Boiler Works (Inc.), Aurora, Ill.
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office, Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
McNeill Boiler Co., Akron, O.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Roberts, S. H. Boiler & Tank Co., Queens Junction, Pa.
Standard Boiler & Plate Iron Co., Niles, O.
Treadwell, M. T. Co., 90 West, New York. Works: Lebanon, Pa.

## 11408—Tanks & Lehrs (Glass)

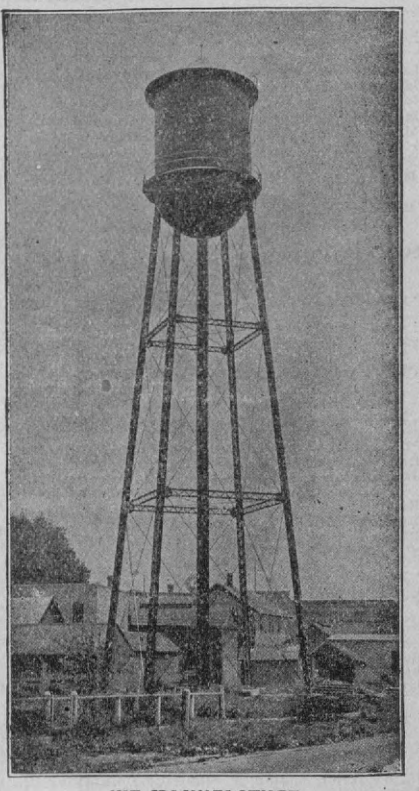
American Furnace & Machine Co. ("Swindell", for Tin Plate & Sheet Mills), Pittsburg, Pa.

## 11409—Tanks & Towers (Steel)

(See also Water Columns or Stations, Railroad; also Stand Pipes)

American Bridge Co., 30 Church, New York, & Frick bldg, Pittsburg, Pa.
American Tower & Tank Co., Elgin, Ill.
Baker Mfg. Co., Evansville, Wis.
**BALTIMORE COOPERAGE CO., THE,** c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Batavia Engineering Works, Batavia, Ill.
Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
Bennett Bros. Co., Lowell, Mass.
Bogert-Carlough Co., Paterson, N. J.
Butler Co., Butler, Ind.
**CALDWELL, W. E. CO., Brook & D.,** Louisville, Ky. (See adv. index, end of book)
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Challenge Co., Batavia, Ill.
Chicago Bridge & Iron Works, Throop & W 105th, Chicago, Ill.
Church, Stephen B., Seymour, Conn.
Clinton Bridge & Iron Works, Clinton, Iowa
Cole, R. D. Mfg. Co., Newnan, Ga.
Corcoran, A. J. (Inc.), 11 John, New York
Cruse-Kemper Co. (Steel), Ambler, Pa.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fleming Tank Co., 3115 Liberty av, Pittsburg, Pa.
Flint & Walling Mfg. Co., Kendallville, Ind.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
**GEM CITY BOILER CO., Dayton, O.** (See adv. index, end of book)
**GRAVER, WM. TANK WORKS, East** Chicago, Ind. (See adv. index & branch offices, end of book)
Hartley Boiler Works, Montgomery, Ala.
Hood, R. H. Co., 299 B'way, New York
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New York.** (See adv. index, end of book)
**KRATZER, W. N. & CO. (Steel Towers only),** 3218 Smallman, Pittsburg, Pa. (See adv. index, end of book)


**TANKS AND TOWERS.**



**WE MANUFACTURE**

**Oil and Acid Tanks, Oil Refinery Work. Car Tanks, Heavy Dryer Cylinders. Rotary Cement Cylinders. Blast Furnaces. Annealing Boxes, Standpipes and Water Towers, Converters, Ladles, Boilers. Heaters, Girders, Steel Buildings. Buildings, Grain Elevators. Copper Furnaces, Clinker Coolers, etc. Self-Supporting Stacks, Galvanizing and Tinning Pots, Lime Kilns. Brick Hardening Cylinders. Penstocks and Riveted Pipe Creosoting Cylinders, Cyanide Tanks. Heavy and Light Plate Construction of Every Description Erected Anywhere.**

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**Alliance, Ohio, U. S. A.**

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# WATER TANKS AND TOWERS
ERECTED ANYWHERE
# THE WARREN CITY TANK & BOILER CO.
WARREN, OHIO


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**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Logan Iron Works, 42 Commercial, Brooklyn, N. Y.
Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
McDaniel & Son, Litchfield, Ill.
McNeil Boiler Co., Akron, O.
Massillon Bridge & Structural Co., Massillon, O.
Mast, Foos & Co., Springfield, Ohio.
Mauds Windmill & Pump Co., Lansing, Mich.
Memphis Bridge Co., Memphis, Tenn.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
**MICHELMANN STEEL CONSTRUCTION Co., Quincy, Ill.** (See adv. index, end of book)
**MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn.** (See adv. index & branch offices, end of book)
New England Tank & Tower Co., 112 High, Boston, Mass.
Penn. Bridge Co., Beaver Falls, Pa.
Petty, J. K. & Co., Stephen Girard Bldg, Philadelphia, Pa. Works, Lebanon, Pa.
**PETROLEUM IRON WORKS CO.,** Sharon, Pa. (See adv. index & branch offices, end of book)
Phelps & Bigelow Wind Mill Co., Kalamazoo, Mich.
Philadelphia Iron Works, 418 N 18th, Phila.,Pa.
Red Cross Mfg. Co., Bluffton, Ind.
**REEVES BROS. CO., Alliance, O.** (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburg, Pa.
Rusling Co., 39 Cortlandt, New York
Russell & Co., Massillon, O.
**ST. PAUL FOUNDRY CO., Como av & Mackubin, St. Paul, Minn.** (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O.** (See adv. index & branch offices, end of book)
Sharon Boiler Works, Sharon, Pa.
Southern Bridge Co., Birmingham, Ala.
Standard Boiler & Plate Iron Co., Niles, O.
**STEARNS, A. T. LUMBER CO., Neponset,** Boston, Mass. (See adv. index, end of book)
Tippert & Wood, Phillipsburg, N. J.
United Iron Works Co., Springfield, Mo.
United Pump & Power Co., Old Colony bldg, Chicago, Ill.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Variety Iron & Steel Works Co., Cleveland, O.
Virginia Bridge & Iron Co., Roanoke, Va.
**WARREN CITY TANK & BOILER Co., Warren, O.** (See adv. index, end of book)
Wendnagel & Co., 22nd & Union, Chicago, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa
Woodmanse Mfg. Co., Freeport, Ill.

## 11410–Tanners' Flashes

Kimball, C. J. Co., Bennington, N. H.

## 11410a–Tape Cutting Machines (Insulating)

**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)

## 11411–Tape (Electrical Friction)

(See Tape, Insulating)

## 11412–Tape (Insulating)

(See Also Sleeving, Cotton)

Acme Rubber Mfg. Co., Trenton, N. J.
American Elec'l Works ("Century"), Philipsdale, R. I.
Anchor Webbing Co. (Cotton Tape), Woonsocket, R. I.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co. ("B. W. H.," "Bay State," "Wizard," "Grip," "Magic," "Brownie," "Tiger"), Cambridgeport, Mass.
Carey, Philip Mfg. Co. (Asbestos), Lockland, Ohio
Carter Rice Co. (Corp.) ("Crowell"), Boston, Mass.
Cleveland Rubber Co., Cleveland, O.
Clifton Mfg. Co., 65 Brookside av, Boston, Mass.
Combination Rubber & Belting Co. (Friction), Bloomfield, N. J.
Consumers Rubber Co. ("Telephone," "Excelsior," "Asir,," "New Sphinx," "Lighting Station," "Euclid," "F. O. S.," "Samson," "Hercules," "Red Back"), Cleveland, O.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co. ("Clipper", "Moose", "Python," "Titan"), Akron, O.
Dielectric Mfg. Co. (Friction), St. Louis, Mo.
Dunton, M. W. Co. (Cotton Tape), Providence, R. I.
Electric Appliance Co. ("Eaco"), 710 W Jackson boul, Chicago, Ill.
Garton, W. R. Co. ("Columbia"), 118 W Jackson boul, Chicago, Ill.
**GENERAL ELECTRIC CO. ("Paragon" & "Acme"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goshen Rubber Works, Goshen, Ind.
Green Insulation Co., Cleveland, O.
Habirshaw Wire Co., 253 B'way, New York
Hartford Rubber Works Co., Hartford, Conn.
Hope Webbing Co. (Cotton Tape), Providence, R. I.
Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
**JOHNS, H. W.-MANVILLE CO. ("Jomanco", "Magnetto", "J-M" Asphalt, "Niagrite" Cable), 100 William, New York.** (See adv. index & branch offices, end of book)
**KERITE INSULATED WIRE & CAble Co. (Kerite), 30 Church, New York.** (See adv. index, end of book)
Knowles, C. S. ("Samson," "Tenax"), Boston Mass.
Massachusetts Chemical Co. ("Norfolk," "Walpole," "Kachouk," "Maschemco"), Walpole, Mass.
Mechanical Rubber Co., Cleveland, O.
Mica Insulator Co. ("Linotape" Oiled Tape), 68 Church, New York
Morgan & Wright (Inc.), Detroit, Mich.
National Cement Mfg. Co. (High Pressure), Toledo, O.
National India Rubber Co., Bristol, R. I.
National Insulator Co., Boston, Mass.
New York Insulated Wire Co. ("Grimshaw," Competition Brands, both Friction and Rubber), 114 Liberty, New York
**NEW YORK RUBBER CO., Reade & Church, New York.** (See adv. index, end of book)
**OKONITE CO. (Ltd.) ("Okonite," "Manson"), 253 B'way, New York.** (See adv. index, end of book)
Packard Electric Co. ("Packard" Bias Cut), Warren, O.
**PENNA. RUBBER CO., Jeannette,** Pa. (See adv. index & branch office, end of book)
Republic Rubber Co., Youngstown, O.
Revere Rubber Co. ("V," "Z"), Boston, Mass.
Schoonmaker, A. O. (Oiled Muslin), 221 Fulton, New York
Standard Paint Co. ("P. & B."), 100 William, New York
United States Asbestos Co., Manheim, Pa.
Wilkie Rubber Mfg. Co., Lynn, Mass.

## 11413– Tape (Kerite)

**KERITE INSULATED WIRE & CAble Co., 30 Church, New York.** (See adv. index, end of book)

## 11414– Tape (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

## 11414a–Tape (Manson Protecting)

**OKONITE CO. (Ltd.), 253 B'way, New York.** (See adv. index, end of book)

## 11415–Tape (Paper Box Sealing)

**KNOWLTON, M. D. CO. (For Cutting, Treating & Forming Paper, Board & Sheet Fabrics), Rochester, N. Y.** (See adv. index & branch offices, end of book)

## 11416–Tape (Waterproof)

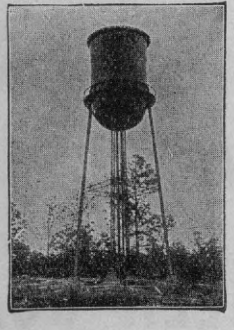
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**KERITE INSULATED WIRE & CAble Co. (Kerite), 30 Church, New York.** (See adv. index, end of book)
Massachusetts Chemical Co., Walpole, Mass.
**OKONITE CO. (Ltd.), 253 B'way, New York.** (See adv. index, end of book)

## 11417–Tapes (Gummed)

McLaurin, James D. Co. (Inc.) ("Bull Dog"), 63 Park Row, New York
Mott, W. A. Label Co. (Plain & Printed), Norwalk, Conn.


K

# TANKS & TOWERS



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**Factories** **Railroads**

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**GENERAL PLATE CONSTRUCTION**

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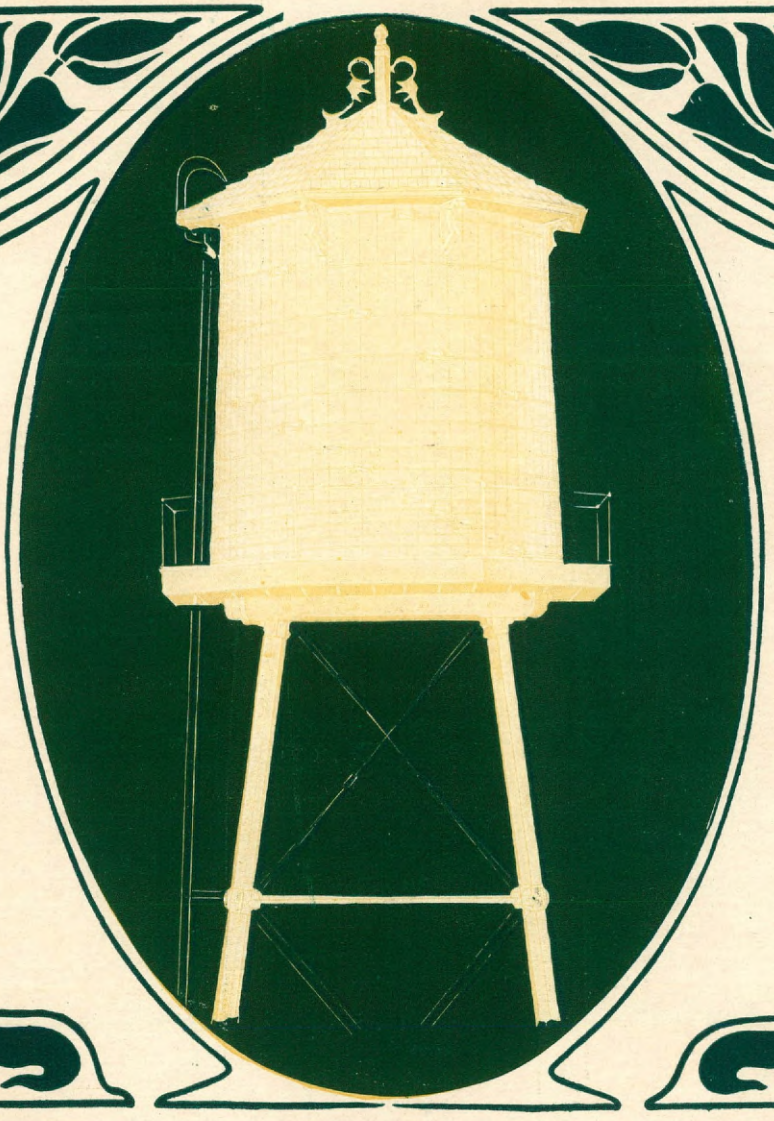
Sales Office:
Corn Exchange Bank Bldg.,
Chicago, Ill., U. S. A.

Works:
Chicago Heights, Ill.,
U. S. A.

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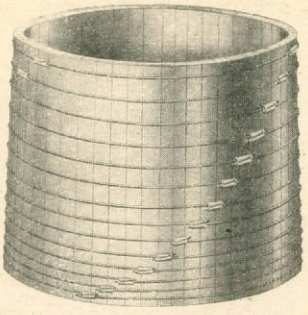
"THE TANK WITH A REPUTATION"



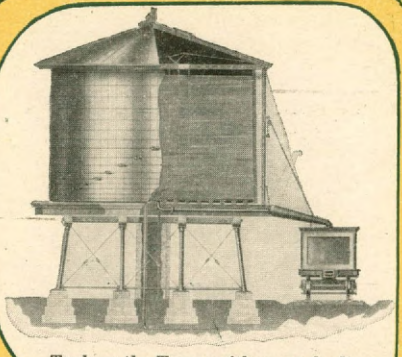
W. E. CALDWELL CO.
LOUISVILLE, KY., U. S. A.

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# "THE TANK WITH A REPUTATION"



Round Wooden Tank



Tank on the Tower with spout feeding an engine with water

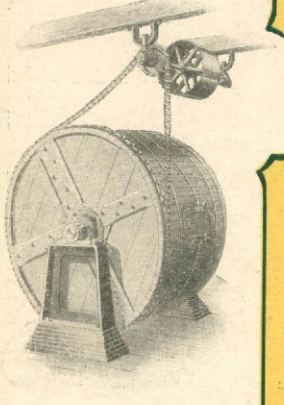
**TANKS**
Wood, Steel, Galvanized Iron, for Water, Dye Liquors, Cider, Vinegar, Whiskey, Chemical and Acid Solutions, Oil, Turpentine and every other purpose required.

**TOWERS**
Wood, Steel and Galvanized. Any height. For any size tank.

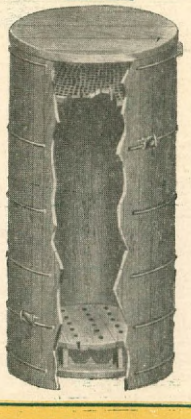
**WATER SUPPLY SYSTEMS**
including Gasoline Engines, Rams, Windmills, Pumps, etc., for Factories, Mills, Small Towns and Country Homes. Outfits for Automatic Sprinklers a Specialty.

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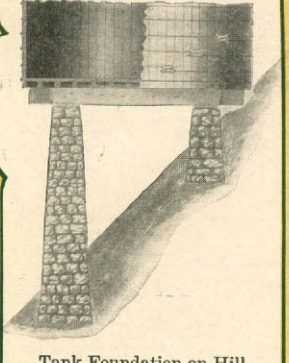
**W. E. CALDWELL CO.**
LOUISVILLE, KY.
U. S. A.



Tanning Drum



Vinegar Generator



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## 11418—Tapes (Measuring)

Babbitt, Geo. A., 302 Dearborn, Chicago, Ill.
Chicago Tape & Label Co. (Tailors' Linen), 521 N Spaulding, Chicago, Ill.
Beckman, L. Co., Toledo, O.
Browne, W. G., Mfg. Co. ("Never-Stretch" Waterproof) Kingston, N. Y.
Chicago Steel Tape Co. (Steel), 6233 Cottage Grove av, Chicago, Ill.
Dietzgen, Eugene Co. (Steel, etc.), 181 Monroe, Chicago, Ill.
**EDDY, GEO. M. & CO., 345 Classon** av, Brooklyn, N. Y. (See adv. index, end of book)


**GEORGE M. EDDY & CO.**

MANUFACTURERS OF

**MEASURING TAPES**

OF ALL KINDS

345 TO 353 CLASSON AVE.,

BROOKLYN, N. Y.


**ELLIOTT, B. K. CO., 108 6th,** Chicago, Ill. (See adv. index, end of book)
**ENGINEERING AGENCY, Monadnock** blk, Chicago, Ill. (See adv. index, end of book)
Gurley, W. & L. E., Troy, N. Y.
Hanrath, Theo. W., 2127 W North av, Chicago, Ill.
Johnston, Robt. (Steel Tape & Reel), Wilkes-Barre, Pa.
Keuffel & Esser Co. ("Keco," "Liliput" Steel, Metallic & Linen), 127 Fulton, New York
Kirk, H. D., 171 Washington, Chicago, Ill.
Lufkin Rule Co. (Steel, Linen, etc.), Saginaw, Mich.
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index, end of book)
Roe, Justus & Sons (Steel), Patchogue, N. Y.
Seelig, R. & Son, 170 Madison, Chicago, Ill.


**SOLTMANN, E. G.**

(Steel or Linen, Also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)


**STARRETT, L. S. CO. (Steel), Athol,** Mass. (See index & branch offices, end of book)
**WEBER, F. & CO., 1125 Chestnut,** Phila., Pa.; 709 Locust, St. Louis, Mo., & 5 N Charles, Baltimore, Md. (See adv. index, end of book)

## 11419—Tapes (Pocket)

Lufkin Rule Co., Saginaw, Mich.

## 11420—Tapes & Webbing for Dynamos, Etc.

Barton, F. C., 65 Worth, New York
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hope Webbing Co., Providence, R. I.

## 11420a—Tappers (Nut)

**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 11421—Tapping Attachments (Drill Press)

Beaman & Smith Co. (Safety Friction Type), Providence, R. I.
Dorman, John H., 1 Bethune, New York
Errington, F. A. (Automatic Reverse & Safety Friction Type), 39 Cortlandt, New York
Horton, E. & Son Co. (Automatic Reverse Safety Friction Type), Windsor Locks, Conn.
Modern Tool Co. ("Modern", "Star"), Erie, Pa.
Whitney Mfg. Co. ("Hallm", Safety Friction Type), Hartford, Conn.

## 11422—Taps (Adjustable)

Carpenter, J. M. Tap & Die Co. ("French's," etc.), Pawtucket, R. I.
Geometric Tool Co., New Haven, Conn.
Lapointe Machine Tool Co., Hudson, Mass.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)

## 11423—Taps (Automobile & Vehicle)

**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 11424—Taps (Beaman & Smith Holder)

Bay State Tap & Die Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)


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"EAGLE BRAND"

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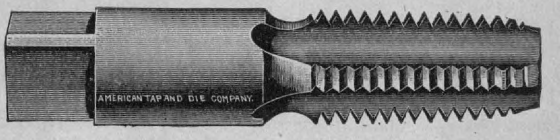

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# AMERICAN TAP & DIE CO.

**GREENFIELD, MASS., U. S. A.**


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## 11425—Taps (Bit Brace)

**AMERICAN TAP & DIE CO.** ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
**Besly, Chas. H. & Co.** ("Helmet" Temper), 124 N Clinton, Chicago, Ill.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
Pratt & Whitney Co., Hartford, Conn.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co. ("Hercules"), Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

## 11426—Taps (Blacksmiths')

**AMERICAN TAP & DIE CO.** ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
**Besly, Chas. H. & Co.** ("Helmet" Temper), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
**Carpenter, J. M. Tap & Die Co.** (Taper), Pawtucket, R. I.
Champion Blower & Forge Co., Lancaster, Pa.
Hart Mfg. Co., Cleveland, O.
**Holroyd & Co.** (Taper & Plug), **Waterford, N. Y.**
King, J. M. Co. (Inc.), Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son (Taper, etc.), Millersburg, Pa.
**SMART, A. J. MFG. CO. ("Smart"** (Taper, etc.), Akron, O. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.
Williams Drop Forging Co., Scranton, Pa.
Winter Bros. Co., Wrentham, Mass.

## 11427— Taps (Boiler)

(See Taps, Patch Bolt)

## 11428—Taps (Champagne)

Landers, Frary & Clark (Inc.), New Britain, Conn.
Morgan Silver Plate Co., Winsted, Conn.

## 11429—Taps (Collapsible)

Chester Engineering & Machine Co., Chester, Pa
Dalton-Ingersoll Co., 175 High, Boston, Mass.
Geometric Tool Co., New Haven, Conn.
Kelly, P. J. ("Kelly's"), Elizabeth, N. J.
**MURCHEY MACHINE & TOOL CO.** ("Murchey" Automatic, also Collapsing Tap & Reamer Combined), 52 Porter, cor 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)
Nugent Tool Co., Cincinnati, O.
Victor Tool Mfg. Co. ("Victor" Pipe), Waynesboro, Pa.
Yost, G. M. Mfg. Co., Meadville, Pa.

## 11430—Taps (Combined Drill & Reamer)

**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
Mueller, H. Mfg. Co., Decatur, Ill.
Polk, A. J. & Son, Millersburg, Pa.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.

## 11431— Taps (Die)

Bay State Tap & Die Co., Mansfield, Mass.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Morse Twist Drill & Machine Co., New Bedford, Mass.
Pratt & Whitney Co., Hartford, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 11432—Taps (Electric Current)

Benjamin Electric Mfg. Co., 128 Sangamon, Chicago, Ill.
Dale Co., 13th & 9th av, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Holland Electric Co., Boston, Mass.
Hubbell, Harvey (Inc.), Bridgeport, Conn.
Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
Meyrowitz, E. B. ("Vetter"), 104 E 23d, New York
Yonkers Specialty Co. ("Metropolitan"), Yonkers, N. Y.

## 11433—Taps (Gas Fixture)

**AMERICAN TAP & DIE CO., Greenfield,** Mass. (See adv. index, end of book)
**SMART, A. J. MFG. CO., Greenfield, Mass. (See adv. index, end of book)**
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 11434— Taps (Hand)

**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co. (Right & Left), Waterford, N. Y.
King, J. M. & Co., Waterford, N. Y.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 11435— Taps (Hob)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand, "Adamantine"), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
**Besly, Chas. H. & Co.** ("Helmet," "Temper"), 124 N Clinton, Chicago, Ill.
Card, S. W. Mfg. Co., Mansfield, Mass.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co. (Hob or Master; also Sellers; also Short Plug), New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son (Sellers), Millersburg, Pa.
**SMART, A. J. MFG. CO. ("Smart"** Long Taper or Master, Short Plug & Sellers, etc.), Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

## 11436—Taps (Horse Shoe)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 11436a—Taps (Locomotive)

**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 11437—Taps (Machine)

**Besly Chas. H. & Co.** ("Helmet," Temper), 124 N Clinton, Chilago, Ill.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

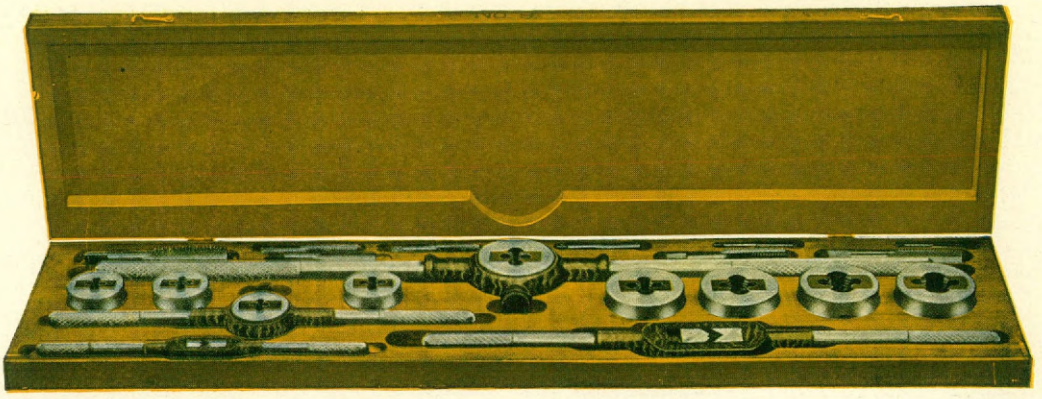
## 11438—Taps (Machine Nut)

American Screw Co., Providence, R. I.
**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
**Besly, Chas. H. & Co.** ("Helmet," Temper), 124 N Clinton, Chicago, Ill.
Brown, H. B. & Co. (Nut Threading), East Hampton, Mass.
Brubaker, W. L., & Bros., Millersburg, Pa.
Butterfield & Co. ("Derby"), Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
King, J. M. Co. (Inc.), Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reynolds & Co., New Haven, Conn.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros Co., Wrentham, Mass.

## 11439—Taps (Machine Screw)

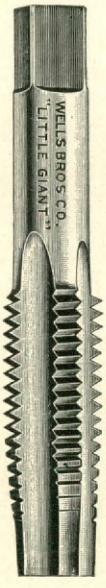
American Screw Co., Providence, R. I.
**AMERICAN TAP & DIE CO. ("Eagle"** Brand, "Adamantine," "Temper"), Greenfield, Mass. (See adv. index, end of book)
**BAY STATE TAP & DIE CO., Mansfield,** Mass (See adv. index, end of book)
**Besly, C. H. & Co., 124 N Clinton, Chicago, Ill.**

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# TAPS——DIES——SCREW PLATES

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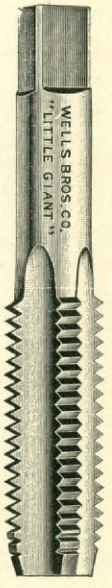
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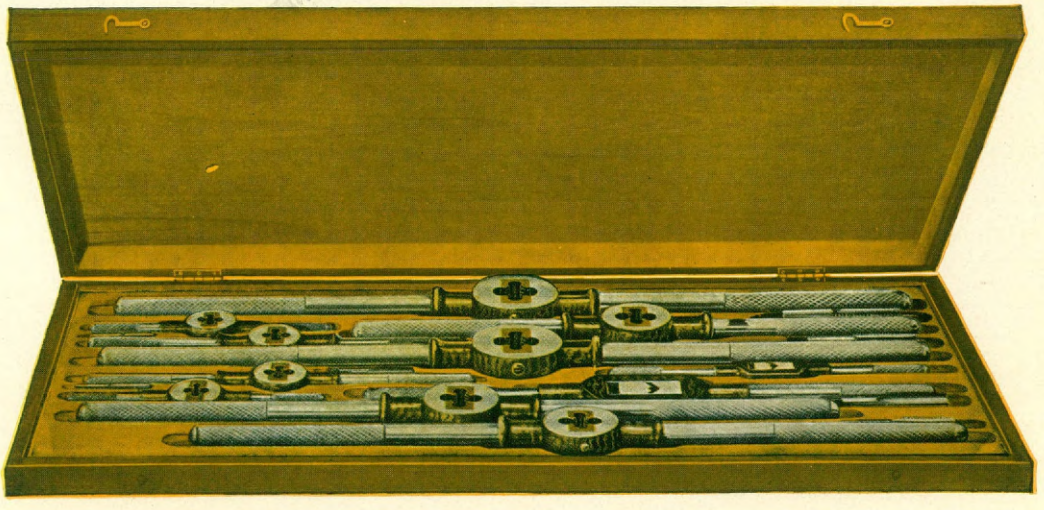
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"EAGLE BRAND"

"ADAMANTINE"

## SCREW PLATES

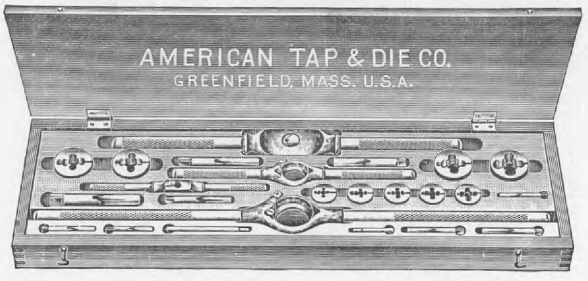


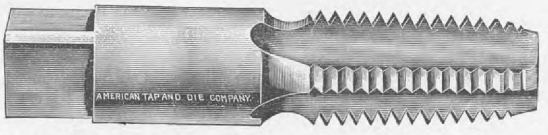

MACHINE SCREW,

HAND AND NUT

## TAPS AND DIES

FOR AUTOMOBILE USE.




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MANUFACTURERS' WANTS

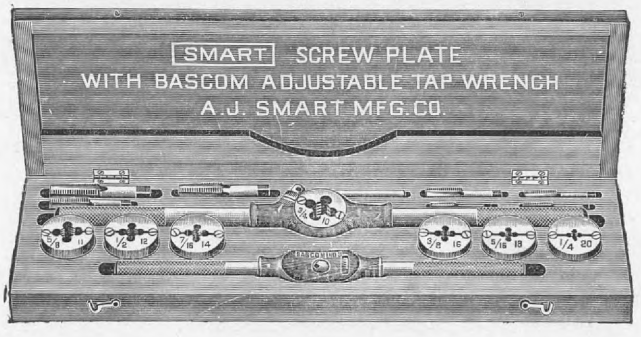
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## AMERICAN TAP & DIE CO.

GREENFIELD, MASS., U. S. A.









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Butterfield & Co., Derby Line Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
King, J. M. & Co. (Inc.), Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.
Reynolds & Co., New Haven, Conn.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

## 11440—Taps (Machinists' Hand)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co. ("Helmet" Temper), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Hart Mfg. Co. ("Duplex"), Cleveland, O.
Holroyd & Co., Waterford, N. Y.
Hoopes & Townsend, 1330 Buttonwood, Phila., Pa.
King, J. M. & Co. (Inc.), Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.
Reynolds & Co., New Haven, Conn.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russel Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

## 11441—Taps (Mud or Wash-Out)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 11442—Taps (Patch Bolt)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co. ("Helmet," Templer), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Chicago Screw Co., 1026 S Homan av, Chicago, Ill.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

## 11443— Taps (Pulley)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co. ("Helmet," Temper), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line. Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whiteney Co., Hartford, Conn.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"), Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

## 11444— Taps (Screw)

Waltham Screw Co., Waltham, Mass.

## 11444a— Taps (Serial)

**WELLS BROS. CO. ("Little Giant),** Greenfield, Mass. (See adv. index & branch offices, end of book)

## 11445—Taps (Stay Bolt)

**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co. ("Helmet," Temper), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index, end of book)
Oswego Tool Co., Oswego, N. Y.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
**RYERSON, JOS. T. & SON, 255S W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**SMART, A. J. MFG. CO. ("Smart"** Spindle Stay Bolt), Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.



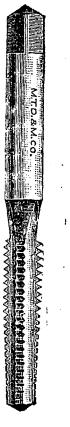


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**WELLS BROS. Co. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

## 11446—Taps (Stove Bolt)

**AMERICAN TAP & DIE CO. ("Eagle" Brand),** Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Winter Bros. Co., Wrentham, Mass.

## 11447— Taps (Taper)

**AMERICAN TAP & DIE CO. ("Eagle" Brand),** Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co., 124 N Clinton, Chicago, Ill.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. (Bicycle, etc.), Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co. (Bicycle, etc.), Waterford, N. Y.
King, J. M. Co. (Inc.), Waterford, N. Y.
Polk, A. J. & Son, Millersburg, Pa.
**SMART, A. J. MFG. CO. ("Smart"** Blacksmith), Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Winter Bros. Co., Wrentham, Mass.

## 11448— Taps (Tapper)

**AMERICAN TAP & DIE CO. ("Eagle" Brand,** "Adamantine," "Temper"), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co. ("Besly," "Helmet," Temper), 124 N Clinton, Chicago, Ill.
Butterfield & Co. (Bicycle, etc.), Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE** Co., New Bedford, Mass. (See adv. index & branch offices, end of book)
Polk, A. J. & Son, Millersburg, Pa.
**SMART, A. J. MFG. CO. ("Smart"),** Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO. ("Little Giant"),** Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

## 11449—Taps & Drills Combined (Pipe)

Bay State Tap & Die Co., Mansfield, Mass.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Superior Tap Co., Charlestown, N. H.
**WELLS BROS. CO., Greenfield,** Mass. (See adv. index & branch offices, end of book)

## 11450—Taps & Drills (Pipe)

Besly, Chas. H. & Co. ("Helmet," Temper), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Carpenter, J. M. Tap & Die Co. (Pipe Taps Only), Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Holroyd & Co., Waterford, N. Y.
**MORSE TWIST DRILL & MACHINE CO.,** New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co. ("Hercules"), Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

## 11451—Taps & Reamers (Pipe)

American Die & Tool Co., Reading, Pa.
**AMERICAN TAP & DIE CO. ("Eagle"** Brand), Greenfield, Mass. (See adv. index, end of book)
Ashcroft Mfg. Co. 85 Liberty, New York. Works, Bridgeport, Conn.
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co. "Helmet," Temper), 124 N Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
**BUFFUM TOOL CO. (Plumbers'),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Butterfield & Co. ("Derby"), Derby Line, Vt.
Carr, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
**CLEVELAND TWIST DRILL CO.,** Lakeside av. & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
**Hart Mfg. Co. ("Duplex"),** Cleveland, O.
Holroyd & Co., Waterford, N. Y.
Keystone Die Stock Co. ("J. J. Delehant's Keystone"), 652 W 47th, Chicago, Ill.
King, J. M. Co. (Inc.), Waterford, N. Y.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
**MORSE TWIST DRILL & MACHINE** Co. (Also Straight & Whitworth Pipe Taps), New Bedford, Mass. (See adv. index, end of book)
Mueller, H. Mfg. Co. (Ratchet Handle Pipe Reamers), Decatur, Ill.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Saunders', D. Sons, Yonkers, N. Y.
**SMART, A. J. MFG. CO. ("Smart"** Taps, Hobs & Reamers), Greenfield, Mass. (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index, end of book)
Superior Tap Co. (Taps), Charlestown, N. H.
Victor Tool Co. (Collapsing Pipe Taps), Waynes-Walworth Mfg. Co., Boston, Mass. boro, Pa.
**WELLS BROS. CO. ("Little Giant,"** & Inserted Lands Pipe Tap), Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass
Winter Bros. Co., Wrentham, Mass.

## 11452—Tar Burning Systems (Smokeless)

Connelly Iron Sponge & Governor Co., 127 Duane, New York
Best, W. N. & Son, 11 B'way, New York
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 11453— Tar Mfrs.

(See also Coal Tar Products)

Carolina Pine Products Co., Cleveland, O.
Lake Superior Iron & Chemical Co., Detroit, Mich.

## 11454— Tar (Pine)

(See Oil, Pine)

Martin, Wm. A. & Co., Wilmington, N. C.
Noble Electric Steel Co., San Francisco, Cal.
Shotter, S. P. Co., Savannah, Ga.
Willcox-Ives Oil Co., Savannah, Ga.

## 11455— Tar (Refined)

Carey, Philip Mfg. Co., Lockland, O.

## 11455a—Targets (Shooting Gallery)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)

## 11456—Tarpaulins, Wagon Covers, Etc.

(See also Tents, Contractors')

Hettrick Bros. Co., Toledo, O.
Lane, J. H. & Co., 110 Worth, New York, or Poughkeepsie, N. Y.
Lee Brothers, Memphis, Tenn.
Meyer, L. M. & Co., Springfield, Mass.
Sullivan, Jno. & Son, 356 Hudson, New York

## Technical Institutions

(See Engineering Schools & Colleges)

## 11457— Tedders (Hay)

Ames Plow Co., Quincy Hall, Boston, Mass.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Hocking Valley Mfg. Co., Lancaster, O.
Howell, R. R. & Co., Minneapolis, Minn.
**INTERNATIONAL HARVESTER CO,** of America ("Champion," "Deering," "International," "McCormick," "Osborne"), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Johnston Harvester Co., Batavia, N. Y.
Messigenr Mfg. Co., Tatamy, Pa.
Moline Plow Co., Moline, Ill.
Ohio Rake Co. ("Monarch," "Quail," "Lion," "O. R. C." Wood), Dayton, O.
Richardson Mfg. Co., Worcester, Mass.
Sterling Mfg. Co., Sterling, Ill.
Thomas Mfg. Co. ("Thomas," "Royal," "Reliable," "Triumph"), Springfield, O.
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 11457a— Tees (Boiler)

**BLAKE SPECIALTY CO. (Double** Union & Bottom Boiler), 2412 3d av, Rock Island, Ill. (See adv. index, end of book)

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## 11458— Tees (Pipe)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co. (Cast & Malleable Iron), Pittsburg, Pa.
**LUNKENHEIMER CO. (Brass), General** Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Osborne High Pressure Joint & Valve Co. ("Osborne" Flanged), The Rookery, Chicago, Ill.

## 11458a—Tees (Test, Soil Pipe)

**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)

## 11459—Teeth (Bundle Carrier)

Morgan Spring Co., Worcester, Mass.
National Tube Co. (Cast-Malleable & Brass, with "Kewanee" Union), Pittsburg, Pa.

## 11460—Teeth (Cultivator)

Allen, S. L. & Co., 1017 Market, Phila, Pa.
Bateman Mfg. Co., Grenloch, N. J.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Harrow Spring Co. (Spring), Kalamazoo, Mich.
Hench & Dromgold Co., York, Pa.
Parlin & Orendorff Co., Canton, Ill.

## 11460a—Teeth (Dipper)

**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)

## 11461—Teeth for Crusher Rolls

Keystone Drop Forge Works, Chester, Pa.
Scranton Forging Co. (For Coal & Salt), Scranton, Pa.

## 11462—Teeth (Harrow)

Babcock Mfg. Co., Leonardsville, N. Y.
Cambria Steel Co. (Spring Teeth), Johnstown, Pa.
Fuller & Johnson Mfg. Co., Madison, Wis.
Harrow Spring Co. (Spring), Kalamazoo, Mich.
Hench & Dromgold Co., Inc., York, Pa.
Herschel, R. Mfg. Co., Peoria, Ill.
Inland Steel Co. (Bessemer Steel), First Nat'l Bank bldg, Chicago, Ill.
Lanz, M. & Sons, Pittsburg, Pa.
Mason, F. C. & Co. (Spring, Spike), St. Johns, Mich.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburgh Rivet Co. (Round & Square Steel), Pittsburgh, Pa.

## 11463—Teeth (Hay Loader)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Harrow Spring Co., Kalamazoo, Mich.
Morgan Spring Co., Worcester, Mass.

## 11464—Teeth (Hay Rake)

(See Teeth, Rake & Tedder)

## 11465—Teeth (Rake & Tedder)

Akron Machine Co. (Rake Teeth), Akron, O.
Cambria Steel Co. (Steel), Johnstown, Pa.
Harrow Spring Co., Kalamazoo, Ill.
Herschel, R. Mfg. Co., Peoria, Ill.
Mason, F. C. & Co., St. Johns, Mich.
Morgan Spring Co., Worcester, Mass.
Whitaker Mfg. Co., 509 W Monroe, Chicago, Ill.

## 11466—Teeth (Scarifier)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.

## 11467—Teeth (Thresher)

Advance Thresher Co., Battle Creek, Mich.
Akron Machine Co., Akron, O.
Christian, Jno., San Jose, Cal.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Rhode Island Tool Co. (Steel), Providence, R. I.
Transue & Williams Co. (Drop Forged), Alliance, O.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 11468—Teeth (Two-Part)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Taylor Iron & Steel Co. ("Panama"), High Bridge, N. J.

## 11469—Teeth (Weeder)

Babcock Mfg. Co., Leonardsville, N. Y.
Harrow Spring Co., Kalamazoo, Mich.

## 11470—Telegraph Apparatus

Bunnell, J. H. & Co. ("Duplex" & "Quadruplex"), Park pl. & Church, New York
Pearce, Fred'k Co., 20 Rose, New York

## 11470a— Telegraph Poles

(See Poles, Various Kinds; also Ties, Poles & Posts)

## 11471— Telemotors

**LIDGERWOOD MFG. CO., 96 Liberty,** New York & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 11472—Telephone Arms

Oliver Mfg. Co. ("Equipoise"), 207 Hale bldg, Phila., Pa.

## 11473—Telephone Booths

(See Telephone Cabinet Work with the Word Booths Following Their Names)

## 11474—Telephone Booths (Miniature Sound Proof)

Miniature Telephone Booth Co., 35 New, New York

## 11475—Telephone Boxes

(See Telephone Cabinet Work with the Word Boxes Following Their Names)

## 11476—Telephone Cabinet Work

American Veneer Co. (Boxes, Back Guards, etc.), Kenilworth, N. J.
Ayers-Ransom-Baurle Co. (Boxes, etc.), 726 S Desplaines, Chicago, Ill.
Bauerle & Stark Co. (Boxes, etc.), 1147 W Ohio, Chicago, Ill.
Bender Co. (Booths), Hamilton, O.
Brownell, Chas. H. ("Altick" Folding Booths, etc.), Peru, Ind.
Churchill Cabinet Co. (Boxes, etc.), 2119 Churchill, Chicago, Ill.
Findeisen & Kropf Mfg. Co., 21st pl & Rockwell, Chicago, Ill.
Fisher Stevens Co. (Booths, etc.), Charles City, Iowa
Heyden, F. (Boxes, etc.), 633 S Clinton, Chicago, Ill.
Household Cabinet Works (Boxes, Booths, Back Boards, etc.), Providence, R. I.
Interstate Electric & Mfg. Co., Sioux City, Ia.
Jordan, Edw. B. & Co. (Boxes, etc.), 129 Degraw, Brooklyn, N. Y.
Miniature Telephone Booth Co. (Miniature Booths), 35 New, New York
Palen's, H. W. Sons (Fine Cabinet Finish), Kingston, N. Y.
Plymouth Novelty Mfg. Co. (Boxes, etc.), Plymouth, Ind.
Seaman, W. S. & Co. (Booths & Supplies), Milwaukee, Wis.
Sewing Machine Cabinet Co. (On Order), Bridgeport, Conn.
Tollner's, Chas Sons Co. (Cases, etc.), Pulaski, N. Y.
Union Hardware Co. (Boxes, etc), Torrington, Conn.
Wabash Cabinet Co. (Boxes, etc.), Wabash, Ind.
Western Electric Co. (Booths, etc.), 500 S Clinton, Chicago, Ill., & 57 Bethume, New York
Wilhelm Telephone Co. (Boxes, etc.), Buffalo, N. Y.
Wisconsin Chair Co. (Boxes, etc.), Port Washington, Wis.
Yesbera Mfg. Co. (Inc.) (Booths, etc.), Toledo, O.

## 11477—Telephone Cleats & Staples

**AMERICAN VULCANIZED FIBRE** Co. (Fibre), Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., (Vulcan**ized Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.,** (Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO.,** (Fibre), Elsmere, Del. (See adv. index, end of book)
**MORRIS ELECTRIC CO., Wilmington,** Del.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 11478—Telephone Cushions (Pneumatic)

Huron Rubber Co., Cleveland, O.

## 11479—Telephone Desk Stands

Dean Electric Co. ("Dean," Cosmos), Elyria, Ohio
Keim, Jno. R. Mills (Inc.), Buffalo, N. Y.

## Telephone Holders

(See Brackets, Desk Telephone)

## 11480— Telephone Knobs

Scranton Button Co. (Electroid), Scranton, Pa.

## 11481—Telephone Meters or Registers

American Electric Telephone Co. ("National"), 64th & State, Chicago, Ill.
Baird Mfg. Co., 1592 N Halsted, Chicago, Ill.
Dean Electric Co., Elyria, O.
Gray Telephone Pay Station Co., Hartford, Conn.
Pearce, W. H. & Co. ("Crescent"), 269 Dearborn, Chicago, Ill.
Turner Brass Works ("Telometer"), Sycamore, Ill.

## 11482—Telephone Mouthpieces

(Rubber, Composition & Hard Fibre; see also Porcelain Specialties, Electrical, Etc.)
American Hard Rubber Co., 9 Mercer, New York
Auburn Button Works, Auburn, N. Y.
Dickinson Mfg. Co. Springfield, Mass.
Electrose Mfg. Co. (Transmitters, etc.), 127 N 10th, Brooklyn, N. Y.
General Insulate & Machine Co. ("Seamless"), 1008 Atlantic ave., Brooklyn, N. Y.
Gibson Mfg. Co., Danbury, Conn.
Rauscher Cabinet & Turning, 98 W 3d, St. Paul, Minn.
Scranton Button Co. (Electroid), Scranton, Pa.
Siemon Hard Rubber Corp., Bridgeport, Conn.
Stokes, Jos. Rubber Co., Trenton, N. J.
Vulcanized Rubber Co., 488 B'way, New York

## 11483— Telephone Parts

Buescher Band Instrument Co., Elkhart, Ind.
Interstate Electric & Mfg. Co., Sioux City, Ia.
Sumter Telephone Mfg. Co., Sumter, S. C.
Tucker, Frank S., 1 Hartford, Boston, Mass.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 11484—Telephone Pole Changer

Holtzer-Cabet Electric Co. (Rotary), Brookline, Mass.
Sandwich Pole Changer Co. ("Illinois" "Sandwich"), Sandwich, Ill.
Warner Electric Co. (For Ringing Telephones), Muncie, Ind.

## 11484a— Telephone Poles

(See Poles, Various Kinds; also Ties, Poles & Posts)

## 11485—Telephone Protectors

American Electric Fuse Co. ("Blue Ribbon"), Muskegon, Mich.
Central Telephone & Electric Co., St. Louis, Mo.
Cook, F. B. ("Cook"), 900 W Lake, Chicago, Ill.
D & W Fuse Co., Providence, R. I.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Harvard Electric Co., 523 W Van Buren, Chicago, Ill.
Sterling Electric Co., Lafayette, Ind.
Sumter Telephone Mfg. Co., Sumter, S. C.

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## 11486—Telephone Receiver Shells

American Enamel Co., Providence, R. I.
American Hard Rubber Co., 9 Mercer, New York
Auburn Button Works, Auburn, N. Y.
Dickinson Mfg. Co., Springfield, Mass.
Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
General Insulate & Machine Co., 1008 Atlantic av, Brooklyn, N. Y.
Gibson Mfg. Co., Danbury, Conn.
Scranton Button Co. (Electroid), Scranton, Pa.
Siemon Hard Rubber Corp., Bridgeport, Conn.
Stokes, Jos. Rubber Co., Trenton, N. J.
Vulcanized Rubber Co., 488 B'way, New York
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 11487—Telephone Receivers

American Hard Rubber Co., 9 Mercer, New York
Central Telephone & Elec. Co., St. Louis, Mo.
Chicago Electric Mfg. Co., 523 W Van Buren,
Dean Electric Co., Elyria, O. Chicago, Ill.
Dickinson Mfg. Co., Springfield, Mass.
Electric Goods Mfg. Co., Boston, Mass.
Ericsson, L. M. Telephone Mfg. Co., Buffalo, N. Y.
Farr Telephone Construction Supply Co., 118 W Jackson boul, Chicago, Ill.
Holtzer-Cabot Electric Co., Brookline, Mass.
Interstate Electric & Mfg. Co., Sioux City, Ia.
Kellogg Switchboard & Supply Co., W Congress & Green, Chicago, Ill.
Murdock, W. J. Co., Chelsea, Mass.
Novelty Electric Co., 50 N 4th, Phila., Pa.
Sumter Telephone Mfg. Co., Sumter, S. C.
Utica Fire Alarm Telegraph Co., Utica, N. Y.
Western Electric Co. (Hand & Head), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.

## 11488—Telephone Relay Shells

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

## 11489—Telephone Ringing Apparatus

Butler Electric Co., David City, Neb.
North Electric Co. (Harmonic Ringers), 408 St. Clair av, N W, Cleveland, O.
Roth Bros. & Co., Loomis & Adams, Chicago, Ill.
Vote-Berger Co. ("V-B," etc.), La Crosse, Wis.
Warner Electric Co., Munice, Ind.
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.

## 11490—Telephone Testing Sets

Holtzer-Cabot Electric Co. (Lineman's), Brookline, Mass.

## 11491—Telephone Transmitter Arms

Baird Electric Co., 3145 N Halsted, Chicago, Ill.
Barr, W. J. Elec. Mfg. Co., Cleveland, O.
Columbia Wire & Iron Works (Extension Telephone Arms), 1933 W Lake, Chicago, Ill.
Ericsson, L. M. Telephone Mfg. Co, Buffalo, N. Y.
Holtzer-Cabot Electric Co., Brookline, Mass.
McDowell Mfg. Co., Pittsburg, Pa.
Rhodes Mfg. Co., Corry, Pa.

## 11492—Telephone Transmitters

Adams-Randall Telegraph & Telephone Supply Co., 136 Liberty, New York
Andrae, Julius & Sons Co., Milwaukee, Wis.
Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.
Cracroft-Leich Electric Co., Genoa, Ill.
Gail-Webb Mfg. Co. ("Gail-Duplex"), Buffalo, N. Y.
Interstate Electric & Mfg. Co., Sioux City, Ia.
Kellogg Switchboard & Supply Co., 434 S Green, Chicago, Ill.
Moore, W. J. Co., Caro, Mich.
North Electric Co., Cleveland, O.
Sterling Co., Lafayette, Ind.
Stromberg-Carlson Tel. Mfg. Co. ("Warrell"), Rochester, N. Y.
Sumter Telephone Mfg. Co., Sumter, S. C.
Vote-Berger Co., La Crosse, Wis.
Western Telephone Mfg. Co. (For Switchboards, etc.), 219 S Clinton, Chicago, Ill.

## 11493—Telephone Woodwork

(See Telephone Cabinet Work; also Woodwork, Electrical)

## 11494—Telephones (Automatic)

Automatic Electric Co., Chicago, Ill.
Northern Electric Co., Cleveland, O.

## 11495—Telephones (Interior)

American Watchman's Time Detector Co., 234 B'way, New York
Century Telephone Construction Co., Buffalo, N. Y.
Chicago Electric Mfg. Co. (Automatic Intercommunicating), 523 W Van Buren, Chicago, Ill.
Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.
Electric Specialty Mfg. Co., Pittsburg, Pa.
Garl Electric Co., Akron, O.
Holtzer-Cabot Electric Co. (Also for Schools & Apartment Houses), Brookline, Mass.
Direct Line Telephone Co. ("Direct Line" Secret Service), 810 B'way, New York
Manhattan Electrical Supply Co., 17 Park pl, New York, & 188 5th av, Chicago, Ill.
Patrick, Carter & Wilkins Co., 122 N 11th, Phila, Pa.
Pattengel & Boardman Co. ("Pattengell" System), 835 B'way, New York
Pettes & Randall Co., 150 Nassau, New York
Sumter Telephone Mfg. Co., Sumter, S. C.
Vote-Berger Co., La Crosse, Wis.

## 11496—Telephones (Mine)

Stromberg-Carlson Telephone Mfg. Co. ("Mine-a-Phone" System), Rochester, N. Y.
Western Electric Co., West & Bethune, New York & Chicago, Ill.

## 11497—Telephones (Pendant)

Vote-Berger Co., La Crosse, Wis.

## 11498—Telephones (Portable)

Western Electric Co. (For Railroad Service, etc.), West & Bethune, New York, & Chicago, Ill.

## 11499—Telephones & Apparatus

(See also Switchboards, Telephone)

Ackerman, Boland Tel. Co. (Inter-Communicating), 648 N Robey, Chicago, Ill.
Acme Telephone & Mfg. Co., Albia, Iowa
American Automatic Telephone Co., Urbana, O.
American Electric Telephone Co. ("Samson" 6-Bar Bridging), 64th & State, Chicago, Ill.
Andrae, Julius & Sons Co., Milwaukee, Wis.
Archer, G. F. (Celebrated Automatic, Inter-Communicating), 39 Cortlandt, New York
Arnold, S. G. Mfg. Co., 152 W 62d, Chicago, Ill.
Augusta Mutual Telephone Co., Augusta, Ill.
Automatic Appliance Co., Boston, Mass.
Automatic Electric Co., 1001 W Van Buren, Chicago, Ill.
B. R. Electric & Tel. Mfg. Co., Kansas City, Mo.
Bainbridge Electric Co., 26 7th, Phila., Pa.
Baird Electric Co. ("Norstrom"), 3145 N Halstead, Chicago, Ill.
Bunnell, J. H. & Co., Park pl. & Church, New York
Central Telephone & Electric Co., St. Louis, Mo.
Century Telephone Construction Co., Buffalo, N. Y.
Chicago Electric Mfg. Co., 523 W Van Buren, Chicago, Ill.
Chicago Telephone Supply Co., Elkhart, Ind.
Chicago Writing Machine Co., Galesburg, Ill.
Churcher Elec. & Mfg. Co., Cincinnati, O.
Columbia Electric Co., Knightstown, Ind.
Connecticut Telephone & Electric Co. (Inc.), (Interior & Long Distance), Meriden, Conn
Cook, Frank B. 900 W Lake, Chicago, Ill.
Couch, S. H. Co., 156 Purchase, Boston, Mass.
Cracraft-Leich Electric Co. ("Leich," Automaphone), Genoa, Ill.
Dean Electric Co., Elyria, O.
De Veau Telephone Mfg. Co. ("De Veau," Automatic Switchless), 472 18th, Brooklyn, N. Y.
Direct Line Telephone Co., 810 B'way, New York
Electric Goods Mfg. Co., 144 Pearl, Boston, Mass.
Elliott Telephone & Electric Co., Indianapolis, Ind.
Ericsson, L. M. Telephone Mfg. Co., Buffalo, N. Y.
Farr Telephone & Construction Supply Co., 33 S Clinton, Chicago, Ill.
Garl Electric Co. (Intercommunicating Long Distance Desk, Hotel, Factory & Store, Portable Street Railway, etc.), Akron, O.
Hepburn Telephone Mfg. Co., 65 Plymouth pl, Chicago, Ill.
Hogrebe, Edwin C. & Co., Cincinnati, O.
Holtzer-Cabot Electric Co., Brookline, Mass.
Independent Telephone Mfg. Co., Madison, Wis.
Interstate Elec. & Mfg. Co., Sioux City, Ia.
Inland Electric Co., St. Louis, Mo.
Kellogg Switchboard & Supply Co., Green & Congress, Chicago, Ill.
Kusel Telephone & Electric Supply Co., St. Louis, Mo.
Long Distance Telephone Mfg. Co., South Bend, Ind.
Manhattan Electrical Supply Co., 17 Park pl, New York, & 188 5th av, Chicago, Ill.
Menominee Elec. & Mfg. Co., Menominee, Mich.
Minnesota Electric Co., Minneapolis, Minn.
Modern Electric Co., Burlington, Iowa
Monarch Telephone Mfg. Co., 1009 Washington boul, Chicago, Ill.
North Electric Co., Cleveland, O.
Oliver Mfg. Co., 1020 Walnut, Phila., Pa.
Radio Telephone Co., 1 Madison av, New York
Rhode Island Telephone & Electric Co., Providence, R. I.
Richmond Co., Oshkosh, Wis.
Russell Electric Co., Danbury, Conn.
Sandwich Electric Co. (Straight Line Telephones), Sandwich, Ill.
Signalphone Alarm Co., Milwaukee, Wis.
Simplex Interior Telephone Co., Cincinnati, O.
Spencer Electrical Co., 163 Greenwich, New York
Standard Mfg. Co. ("Crown" for Factories, Hotels, etc.), Bridgeport, Conn.
Sterling Electric Co., Lafayette, Ind.
Stromberg-Carlson Telephone Mfg. Co. (& Construction Material), Rochester, N. Y.
Sumter Telephone Mfg. Co., Sumter, S. C.
Swedish-American Telephone Co., 5235 E Ravenswood Park, Chicago, Ill.
Utica Fire Alarm Telegraph Co., Utica, N. Y.
Viaduct Electric Co., Relay, Md.
Vote-Berger Co., La Crosse, Wis.
Western Telephone Mfg. Co., 219 S Clinton, Chicago, Ill.
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.

## 11500— Telescopes

(See also Binoculars, Telescopes & Marine Glasses)

Bausch & Lomb Optical Co. (Observation, etc.), Rochester, N. Y.
Clark, Alvin & Son (Astronomical), Cambridge, Mass.
Cummings, Lawson C. (Rifle), Montpelier, Vt.
Goerz, C. P. American Optical Works, 317 E 34th, New York
Gundlach Manhattan Optical Co., Rochester, N. Y.
**LEEDS & NORTHRUP CO. (Reading),** Stenton av, Gtm., Phila., Pa. (See adv. index, end of book)
Modern Telescope Bag Co., Portland, Ore.
Spencer Lens Co., Buffalo, N. Y.
Spencer Optical Co., 31 Maiden lane, New York
Stevens, J. Arms & Tool Co. (Rifle), Chicopee Falls, Mass.
Warner & Swasey Co. (Binoculars, etc.), Cleveland, O.

## 11501—Tell Tales (Rope)

**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

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## 11502—Telpherage (Electric Conveying)

Dodge, J. M. Co., Nicetown, Phila., Pa.
**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)
United Telpherage Co., 20 Broad, New York

## 11503—Tempering to Order

**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)
National Cycle Mfg. Co., Bay City, Mich.
Vincent Steel Process Co. ("Vincent," Process), Detroit, Mich.

## 11504— Ten Pins

Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Hellenberg & Son, Coldwater, Mich.
McMillan's, W. H. Sons, 153 South, New York

## 11505—Tenders (Traction Engine)

Case, J. I. Threshing Machine Co., Racine, Wis.
Nicholas & Shepard Co., Battle Creek, Mich.
Ohio Tractor Mfg. Co., Marion, O.

## 11506—Tennis Racquet Handle Covers

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 11507—Tennis Racquet Mfrs.

Bancroft, Fred'k J., Pawtucket, R. I.
Horsman, E. I. Co., 365 B'way, New York
Slazenger, F. L., 8 W 28th, New York
Spalding, A. G. & Bros., 126 Nassau, New York
Wright & Ditson, Boston, Mass.

## 11508—Tents (Contractors')

### ARKANSAS.

FORT SMITH—Tucker Duck & Rubber Co.
LITTLE ROCK—Little Rock Tent & Awning Co.

### CALIFORNIA.

SAN FRANCISCO—Ames-Harris-Neville Co.

### COLORADO.

DENVER—Colorado Tent & Awning Co.
Denver Tent & Awning Co.
Schaefer Tent & Awning Co.

### ILLINOIS.

CHICAGO—**CARPENTER, GEO. B. & Co.**, 202 S Water. (See adv. index, end of book)
Channon, H. Co., 32 Market
Cook, E. C. & Bro., 49 E Kinzie
Murray & Co., 640 Meriden
Murray Tent & Awning Co., 411 Wells
U. S. Tent & Awning Co., 22 N Desplaines
ELGIN—Zeigler Bro. Co.
PEORIA—Peoria Tent & Awning Co., 119 Main

### INDIANA.

EVANSVILLE—Anchor Supply Co.
INDIANAPOLIS—Eberhardt & Co.
Indianapolis Tent & Awning Co.

### IOWA.

SIOUX CITY—McNeil, H. C. & Son

### MASSACHUSETTS.

SPRINGFIELD—Meyer, L. M. & Co.

### MINNESOTA.

MINNEAPOLIS—American Tent & Awning Co.

### MISSOURI.

KANSAS CITY—Baker & Lockwood Mfg. Co.
Carnie-Goudie Mfg. Co.
ST. LOUIS—Dougherty Bros. Tent & Awning Co., 109 S Main
Missouri Tent & Awning Co., Chestnut & 2d
Morrison Tent & Awning Co., 115 Olive
Mound City Duck & Rubber Co., 616 N 3d
Sanders Duck & Rubber Co., 805 Wash'n av
Wenzel, Herman, Main cor Elm
Zittlosen Mfg. Co., 310 Elm

### NEW YORK.

NEW YORK—Bauman, Chas. R., 86 South
Harrison, John (Est. of), 170 South
Harwood & Son (Also Export), 175 W Bway
Hopkins, Jno. C. & Co., 119 Chambers
McHugh Mfg. Co., 140 W 38th
Magee, M. & Son, 147 Fulton
Martin, Thomas, 326 Canal
Rehm & Co., 142 Fulton
Skelton, Frederick, 653 1st av
ROCHESTER—Field, James Co.

### OHIO.

COLUMBUS—Buckeye Tent & Awning Co.
Columbus Tent & Awning Co.
TOLEDO—Hettrick Bros. Co.

### OREGON.

PORTLAND—Ames-Harris-Neville
Noon, W. C. Bag Co.
Portland Tent & Awning Co.

### TENNESSEE.

MEMPHIS—Lee Bros.

### TEXAS.

HOUSTON—Repsdorph Tent & Awning Co.
Kattman & Kneeland Tent Co.
WACO—Clifton-Coffield Mfg. Co.

### WASHINGTON.

SPOKANE—Berg, F. O. Co.

### WEST VIRGINIA.

WHEELING—Wheeling Tent & Awning Co.

## 11509—Tents (Umbrella)

Troy Carriage Sun Shade Co., Troy, O.

## 11510—Terminals (Fuse)

(See Terminals, Telephone Cable)

## 11511—Terminals (Service)

Phila. Electrical & Mfg. Co., 1228 N 31st, Phila., Pa.

## 11511a—Terminals (Telephone Cable)

American Electric Fuse Co. ("Blue Ribbon"), Muskegon, Mich.
American Electric Telephone Co., Chicago, Ill.
Bissell, F. Co. ("Security"), Toledo, O.
Central Tel. & Electric Co., St. Louis, Mo.
Cook, Frank B. (All Metal), 900 W Lake, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Harvard Electric Co., 523 W Van Buren, Chicago, Ill.
Moon Mfg. Co., 122 N Jefferson, Chicago, Ill.
Protective Electrical Supply Co., Fort Wayne, Ind.
Sterling Electric Co., Lafayette, Ind. Ind.
**WORCESTER PRESSED STEEL CO.** (Brass & Steel Knobs, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

## 11512—Terminals (Telephone Plug)

**MORSE, FRANK W. ("Morse Eureka"),** 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

## 11513—Terminals (Wire)

Bliss-Chester Co. (Duplex), Providence, R. I.
Herz & Co., 295 Lafayette, New York
Mosler, A. R. & Co., 163 W 29th, New York
Never-Miss Mfg. Co., Lansing, Mich.
Noonan Tool & Machine Works, Rome, N. Y.
Pittsfield Spark Coil Co., Dalton, Mass.

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Keystone Plaster Co. (For Paint Mfrs.), Perry bldg, Phila, Pa. Works, Chester, Pa.
King, J. B. & Co., 17 State, New York
Nevins, Sam'l Co., 109 S 2d, Phila., Pa.
Salomon, L. A. & Bro., 213 Pearl, New York
**SCHULE, F. H. CO., 114 Liberty, New** York. (See adv. index, end of book)
Williams, C. K. & Co. ("Anchor Brand"), Easton, Pa.

## 11515—Terra Cotta (Architectural)

American Terra Cotta & Ceramic Co., Chicago, Ill., & Terra Cotta, Ill.
**ATLANTA TERRA COTTA CO., East** Point, Ga. (See adv. index, end of book)
**ATLANTIC TERRA COTTA CO., 1170** B'way, New York. (See adv. index & branch offices, end of book)
Brick Terra Cotta & Tile Co., Corning, N. Y.
Carnegie Brick & Pottery Co., Montgomery blk, San Francisco, Cal.
**CARTER, BLACK & AYERS (Inc.)** (Mfrs.' Agts.), 1182 B'way, New York. (See adv.index, end of book)
Clark, N. & Sons, 116 Natoma, San Francisco, Cal.
Conkling-Armstrong Terra Cotta Co., 24 S 7th, Phila., Pa.
Denny-Renton Clay & Coal Co., Seattle, Wash.
**FEDERAL TERRA COTTA CO., 111** B'way, New York. Works: Woodbridge, N. J. (See adv. index & branch offices, end of book)
Fiske & Company (Inc.), 25 Arch, Boston, Mass.
Gladding, McBean & Co., Crocker bldg, San Francisco, Cal.; Works: Lincoln, Cal.
Indianapolis Terra Cotta Co., Indianapolis, Ind.
Ketcham, O. W. (Mfrs. Agt.), 24 S 7th, Phila., Pa.
Maryland Terra Cotta Co., Baltimore, Md.
Midland Terra Cotta Co., Chicago, Ill.
**NEW JERSEY TERRA COTTA CO.,** Singer bldg, New York. (See adv. index & branch offices, end of book)
New York Architectural Terra Cotta Co., 225 5th av, New York; Works: Long Island City, N. Y.
Northern Clay Co., Auburn, Wash.
**NORTHWESTERN TERRA COTTA** Co., Main Office & Works, 2525 Clybourn av. Branch Office, 1415 Railway Exchange Chicago, Ill. (See adv. index, end of book)
Patton Clay Mfg. Co., Patton, Pa.
Rogers Terra Cotta Co., Moorestown, N. J.
South Amboy Terra Cotta Co., Spruce & Nassau, New York
Southern Terra Cotta Works. Atlanta, Ga.
St. Louis Terra Cotta Co., St. Louis, Mo.
Standard Terra Cotta Works, 1170 B'way, New York
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
Washington Brick, Lime & Sewer Pipe Co., Spokane, Wash.
White, Scott A. (Mfrs.' Agt., Northwestern), 811 Lewis blk, Pittsburg, Pa.
**WINKLE TERRA COTTA CO., 502 Century** bldg, St. Louis, Mo.; Works: Cheltenham, St. Louis, Mo. (See adv. index, end of book)

## 11516—Terra Cotta (Architectural Enameled or Glazed)

**ATLANTA TERRA COTTA CO., East** Point, Ga. (See adv. index, end of book)
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Gladding, McBean & Co., San Francisco, Cal. Works, Lincoln, Cal.
Grueby Faience Co., E 1st & K. Boston, Mass.
Hartford Faience Co., Hartford, Conn.
**NEW JERSEY TERRA COTTA CO.,** Singer bldg, New York. (See adv. index & branch offices, end of book)
New York Architectural Terra Cotta Co., 225 5th av, New York; Works: Long Island City, N. Y.
**NORTHEASTERN TERRA COTTA** Co., Bradford, Pa. (See adv. index, end of book)
**NORTHWESTERN TERRA COTTA** Co., Main Office & Works, 2525 Clybourn av. Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
St. Louis Terra Cotta Co., St. Louis, Mo.
South Amboy Terra Cotta Co., Spruce & Nassau, New York
**WINKLE TERRA COTTA CO., Century** bldg, St. Louis, Mo.; Works: Cheltenham, St. Louis, Mo. (See adv. index, end of book)

## 11517—Terra Cotta (Granite Colors)

**NORTHWESTERN TERRA COTTA** Co., Main Office & Works: 2525 Clyburn av; Branch Office: 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)

## Terra Cotta Hip Rolls

(See Roofing Tile, Terra Cotta)

## 11517a—Terra Cotta Lumber

(See Fire Proof Hollow Tile; also Fire Proofing, Porous Brick & Tile)

## 11517b—Terra Cotta or Insulating Building Blocks

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**NEW JERSEY TERRA COTTA CO.,** Singer bldg, New York. (See adv. index & branch offices, end of book)
New York Architectural Terra Cotta Co., 225 5th av, New York; Works: Long Island City, N. Y.
**NORTHWESTERN TERRA COTTA** Co. Main Office & Works, 2525 Clybourn av. Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
**WINKLE TERRA COTTA CO., Century** bldg, St. Louis. Mo.: Works: Cheltenham, St. Louis, Mo. (See adv. index, end of book)

## 11519— Terraflor

Southern Fullers Earth Co. (Bleaching Clay for Oils, Petroleum, etc.), Warren, Pa.

## 11520—Terrazzo Flooring

(See also Mosaics of Various Kinds)

Art Mosaic & Tile Co., Toledo, O.
**BATTERSON & EISELE, Main Office** & Works, Edgewater, N. J., & Times bldg, 42d, New York. (See adv. index end of book)
Belfi Bros. & Co., 20 So. 19th, Phila, Pa.
Bortoli Mosaic & Tile Co., Dallas, Tex.
Cascio, S., 797-803 Lexington av. Brooklyn, N.Y.
Davis Marble Co., 214 S. 24th. Phila., Pa.
Des Moines Marble & Mantel Co., Des Moines, Ia.
Federal Tile Co., 131 W. 24th, New York
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
Italian Mosaic & Marble Co., Buffalo, N. Y.
Mion Bros., Atlanta, Ga.
McLaury, D. H. Marble Co., Walnut av, n 141st, New York
Mosaic Marble & Enamel Co., Buffalo, N. Y.
Shipway, John H. & Bro., Locust av & 136th, New York
Toscani, Jno. L. & Co., 930 E 178th, New York
White Marble & Terazzo Co., Lee, Mass.

## 11521—Terrazzo (Wholesale)

Jackson, C. D., 105th & E. R., New York
Roussel, Chas. J., 524 W 50th, New York

## 11522— Testers (Cable)

**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)

## 11523—Testers (Center)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 11524— Testers (Circuit)

Weston Electrical Instrument Co., Waverly Park, N. J.

## 11525— Testers (Coffee)

Stortz, John & Son, 210 Vine, Phila., Pa.

## 11526—Testers (Creamery)

Burrell, D. H. & Co. ("Facile" & "Babcock"), Little Falls, N. Y.
Creamery Package Mfg. Co. ("Wizzard"), 61 W Kenzie, Chicago, Ill.
Dairy Specialty Co. ("Babcock"), West Chester, Pa.
Edson, Wyman L., Union Center, N. Y.
Fargo Creamery Supply House ("Victor & Ideal Babcock"), Lake Mills, Wis.
Jones, Frank L., Utica, N. Y.
Luther Bros Co. ("Best Maide," "Babcock"), Milwaukee, Wis.
Polar Creamery Co. ("Fowlers" Improved), Lafayette, Ind.
**ROCK ISLAND MFG. CO., Rock** Island, Ill. (See adv. index & branch offices, end of book)
Sharpless Separator Co. (Russian Standard & "No-tin," "Babcock"), West Chester, Pa.
Vermont Farm Machine Co. ("Agos," "Babcock"), Bellows Falls, Vt.

## 11527—Testers (Flax Seed & Cotton Seed)

**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)

## 11528—Testers (Fusil Oil)

Tagliabue, Chas. J. Mfg. Co. ("U. S."), 396 B'way, New York

## 11529—Testers (Grain)

(See also Scales, Grain Testing)

**CALDWELL, H. W. & SON CO. ("Caldwell"),** 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)

## Testers (Ham)

(See Tryers, Ham)

## 11530—Testers (Mine Gas)

Quimby Engineering Co., 913 Ridge av, Phila., Pa

## 11531— Testers (Paper)

Dobler & Mudge ("Eddy"), Baltimore, Md.
Illinois Iron & Bolt Co. ("Southworth" Hydrostatic), Carpentersville, Ill.
Olsen, Tinius & Co., 500 N 12th, Philadelphia, Pa.
Perkins, B. F. & Son ("Mullen"), Holyoke, Mass.

## 11532—Testers (Sulphur & Naphthalene)

Connelly Iron Sponge & Governor Co., 127 Duane, New York

## 11533— Testers (Syrup)

**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 11533a—Testing Apparatus (Ventilator)

**QUEEN & CO. (Inc.), 1211 Arch,** Phila, Pa. (See adv. index, end of book)

## 11534—Testing Instruments & Meters (Electrical)

**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**QUEEN & CO. (Inc.), 1211 Arch,** Phila, Pa. (See adv. index, end of book)

## 11535—Testing Sets (Ammonia)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 11536—Testing Sets (Electrical)

**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)

## Testing Machine Mfrs.

(For All Testing Machines see Index of Contents)

## 11537—Tetrachloride of Tin

Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry rd., Philadelphia, Pa.
General Chemical Co., 25 Broad, New York
Goldschmidt Detinning Co., 60 Wall, New York. Factories: Chrome, N. J., & Wyandotte, Mich.

## 11538—Textile Machinery, Supplies, Etc.

NOTE.—For various kinds of Textile Machinery, Textile Mill Supplies, etc., see subclassifications of this head, following in regular alphabetical order. If you fail to find any particular article you are looking for classified here, consult the Index of Contents. If not then successful in locating it, drop us a line, describing article required, and we will, free of charge, use our best efforts to look it up for you.

### 11539— Agers (Aniline)

Textile Finishing Machinery Co., Providence, R. I.

### 11540— Aprons (Endless)

Barlow, Jno. W. Co., Lawrence, Mass.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass. (See adv. index, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Harwood, Geo. S. & Son, 53 State, Boston, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.

### 11541—Apron Leather (Raw Hide)

Coupe, Wm. & Co. ("Excelsior"), S Attleboro, Mass.

### 11542—Apron Leather (Worsted)

Brown Bros. Co., Providence, R. I.
Coupe, Wm. & Co. ("Excelsior"), S Attleboro, Mass.
Schieren, Chas. A. & Co., 30 Ferry, New York

### 11543— Apron (Loom)

Folsom, Fred W. & Co., 2 Planet, Providence, R. I.
Pease, L. F. Co., 7 Crawford, Providence, R. I.

### 11544—Aprons (Worsted Combing)

American Multiple Fabric Co., Providence, R. I.
Barlow, Jno. W. Co., Lawrence, Mass.
Barnes, H. K., 234 Devonshire, Boston, Mass.
Coupe, Wm. & Co. ("Excelsior"), S. Attleboro, Mass.
Harwood, G. S. & Son, 53 State, Boston, Mass.
**HUDSON BELTING CO. (Sheepskin), 3** Eaton pl, Worcester, Mass. (See adv. index, end of book)
Parr, Wm., Lowell, Mass.
Pechin, Jno. W., 700 No. Front, Phila, Pa.

### 11545— Bale Breakers

Firth, Wm. Co. ("Asa Lees & Co.," Ltd.), 79 Milk, Boston, Mass.
Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.

### 11546— Balling Machines

Curtis & Marble Machine Co., Worcester, Mass.
Draper Co., Hopedale, Mass.
Entwistle, T. C. Co., Lowell, Mass.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Torrance Mfg. Co., Harrison, N. J. Phila., Pa.

### 11547—Ball Winding Machines

**Franklin Machine Co.,** Providence, R. I.

### 11548—Band Folding & Cutting Machines

Kennedy Machine Co., Cohoes, N. Y.

### 11549— Banding Machines

Cole Bros. (Improved Inman Automatic Loop), Pawtucket, R. I.
Draper Co. ("Weeks"), Hopedale, Mass.

### Bands (Hosiery)

(See Hosiery Bands)

### 11550— Beamers

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Atwood-Morrison Co., Stonington, Conn.
Butterworth, H. W. & Sons Co., 2415 E York
Cole Bros., Pawtucket, R. I. Phila, Pa.
Eastwood, Benj. Co., Paterson, N. J.
Entwistle, T. C. Co., Lowell, Mass.

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Globe Machine & Fdry Co., Fkd., Phila, Pa.
Hughes & Russum, Frankford, Phila., Pa.
Leever, Oswald, Lehigh av & Mascher, Phila., Pa.
Smith, Jas. Woolen Machine Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

### 11551— Beaming Rathes

Allen, A. W., 2427 Mascher, Phila., Pa.
Walker Mfg. Co., J. & E. Ontario, Phila, Pa.

### 11552— Belt Hole Guards

Draper Co., Hopedale, Mass.

### 11553— Blacking Machinery

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Collyer Mach. Co., Pawtucket, R. I.
Kitson Machine Shop, Lowell, Mass.

### 11554— Bleaching Machinery

American Drying Machine Co., 3301 N 19th, Phila., Pa.
Arlington Machine Works, Arlington Heights,
Birch Bros., Somerville, Mass. Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Empire Laundry Machinery Co., Boston, Mass.
Holyoke Machine Co., Holyoke, Mass.
Hopkins Machine Works (Inc.) (Peroxide), Bridgeton, R. I.
Hunt, Rodney, Machine Co., Orange, Mass.
Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.
Philadelphia Drying Machinery Co., 6721 Gtn av, Phila., Pa.
Smith, Drum & Co., 2503 Coral, Phila., Pa.
Taylor & Fenn Co., Hartford, Conn.
Textile Finishing Machinery, Co., Providence,
Watson Machine Co., Paterson, N. J. R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.
Worcester Steam Boiler Works ("Kiers"), Worcester, Mass.
Yaryan Co., 200 Fifth av, New York

### 11555— Bluing Machines

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Textile Finishing Machinery, Co., Providence, R. I.

### 11556— Bobbin Holders

Draper Co. ("Lawrence," "Rhoades"), Hopedale, Mass.
Roney & Rae Co. ("Little Giant"), Woonsocket, R. I.
Murdock & Geb Co. ("Murdock" for Mules, Winders & Twisters), Franklin, Mass.

### 11557— Bobbin Rings

Morgan Spring Co., Worcester, Mass.

### 11558— Bobbin Winders

Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 436 N 9th, Phila., Pa.
Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
E. I. Braiding Machine Co., Providence, R. I.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
Textile Machine Works, Reading, Pa.
Tompkins Bros. Co., Troy, N. Y.

### 11559— Bobbins

Allentown Bobbin Works (Steel), Allentown, Pa.
American Supply Co., Providence, R. I.
Baldwin, Jas. Co., Manchester, N. H.
Billington, Jos. H. & Co., 113 Chestnut, Phila., Pa.
Blaiser's Novelty W'ks, Rome, N. Y.
Bobbin & Spindle Works, Charleston, S. C.
Bogert & Hopper Co., 162 William, New York
Brooks & Whitney, Franconia, N. H.
Brown Bros. Co., Providence, R. I.
Clover Leaf Mfg. Co., Carbondale, Pa.
Coburn, Fred. S., 243 Main, Woonsocket, R. I.
Courtney, D. S., Chicopee, Mass.
Dudley, Sumner A., Taunton, Mass.
Estes, E. B. & Sons, 74 Warren, New York
Eaton, Hy. A., Littleton, N. H.
Eaton, Isaac Co., Nashua, N. H.
Excelsior Bobbin & Spool Co., Newtown, Pa.
Fall River Bobbin & Shuttle Co., Fall River Mass.
Fall River Foundry & Machine Co., Fall River,
Fletcher Mfg. Co., Providence, R. I. Mass.
Hall, I. A. & Co., Paterson, N. J.
Hall & McCrillis, Groton, Vt.
Hambleton Bros., Goffstown, N. H.
Hartford Machine Screw Co. (Sewing Machine), Hartford, Conn.
Hartson, L. M. Co. (Iron, Fibre & Wood Heads), North Windham, Conn.
Hoyle, Jos. Bobbin Co., Woonsocket, R. I.
Lyndon Mfg. Co., Athens, Ga.
Mawson Spool & Bobbin Co., Lestershire, N.Y.
Moore, J. G., Lisbon, N. H.
Morse, F. B., Enfield, N. H.
Murray, Chas. O., Nashua, N. H.
New England Shuttle Co., Lowell, Mass.
Ohio Valley Pulley Works, Maysville, Ky.
Orleans Bobbin Co., Newport, Vt.
Parker & Young Co., Lisbon, N. H.
Payne, Geo. W. Co. (Hosiery Winder), Pawtucket, R. I.
Potter Bros., South Scituate, R. I.
Shelburne Mills Co. (In the Rough), Shelburne, N. H.
Sherwood Bobbin & Mfg. Co., Greensboro, N. C.
Southern Spool & Bobbin Co., Greensboro, N. C.
Southern Shuttle & Bobbin Co., Westminster, S. C.
Speed & Stephenson (Wilson & Co., Barnsley, (Ltd.), 170 Summer, Boston, Mass.
Sprague, L. Co., Lawrence, Mass.
Sweet & Doyle, Cohoes, N. Y.
Tibbetts, E. L. & Co., Locke's Mills, Me.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Van Riper Mfg. Co., Paterson, N. J.
Vermont Spool & Bobbin Co., Burlington, Vt.
Weld Bobbin & Spool Co., 42 Island, Lawrence,
Wilbur, Benj., South Scituate, R. I. Mass.
Williams, J. H. Co., Utica, N. Y.
Wisconsin Textile Mfg. Co., Two Rivers, Wis.
Woodstock Hardwood & Spool Mfg. Co. (Heavy for Rope & Cordage, etc.), Charleston, S.C.
Young, Chas. A., Easton, N. H.

### 11560—Boxes (Drawing & Roving)

Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson, 170 Summer, Boston, Mass.

### 11561— Boxes (Gill)

Lowell Machine Shop (For Drawing, Repairing & Finishing), Lowell, Mass.

### 11562— Boxes (Mill)

AMERICAN VULCANIZED FIBRE Co. ("Laminar" Dept.), Wilmington, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Fibre), Elsmere, Del. (See adv. index, end of book)
Lowell Machine Shop, Lowell, Mass.
PARKER, J. C. & SONS FIBRE CO. (Fibre), New Castle, Del. (See adv. index, end of book)
Spaulding-Perkins Co., Rochester, N. H.

### 11563— Boxes (Steam)

Leslie, Elliott & Co., Paterson, N. J.
Scannell Boiler Works, Lowell, Mass.
Smith, Samuel & Son Co., Paterson, N. J.
Watson Machine Co., Paterson, N. J.
Worcester Steam Boiler Works, Worcester, Mass.

### 11564— Boxes (Weigh)

Lowell Machine Shop, Lowell, Mass.

### 11565—Braid Calendering Machines

Rhode Island Braiding Machine Co., Providence, R. I.

### 11566—Braid Rolling Machines

Rhode Island Braiding Machine Co., Providence, R. I.

### 11567— Braided Banding

(See also Cotton Bandings)

Covel & Osborn Co., Fall River, Mass.
Frost, Geo. T. & Sons, Paterson, N. J.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Holden, Jas., Fall River, Mass.
Lambeth Rope Corp., New Bedford, Mass.
Moore, C. & Co., 500 Market, Phila., Pa.
Small Bros., Fall River, Mass.
Speed & Stephenson ("Wm. Haighe's"), 170 Summer, Boston, Mass.
Toohey, M. J. & Co., Fall River, Mass.

### 11568— Braiders (Packing)

Rhode Island Braiding Machine Co., Providence, R. I.

### 11569— Braiding Machinery

Eastwood, Benj. Co., Paterson, N. J.
Lyall, J. & W., Passaic, N. J.
New England Butt Co., Providence, R. I.
Rhode Island Braiding Mach. Co., Providence,
Textile Machine W'ks, Reading, Pa. R. I.

### 11570—Breaking Machines (Hard Waste)

Curtis & Marble Machine Co., Worcester, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 11571— Breasts (Metallic)

Smith, James Woolen Machinery Co., Phila., Pa.
Smith & Furbush Machine Co., Phila., Pa.

### 11572— Brushes (Mill)

Bradley & Smith, 251 Pearl, New York
Cincinnati Mfg. Co., 211 Walnut, Cincinnati, O.
Columbia Napper Cloth'g Co., Lawrence, Mass.
Edwards, Henry & Co., Lowell, Mass.
Felton, S. A. & Son Co., Manchester, N. H.
Heartley Machine, Variety Iron & Tool Works Mill Cloth Cleaning Brushes), Toledo, O.
Jacobus, A. G. Sons, Verona, N. J.
Lahne, M. M. & Co., Lowell, Mass.
Leavens, Murphy & Co., 28 Exch., Boston, Mass.
Mason Brush Works, Worcester, Mass.
Nebes, David, Lowell, Mass.
North Chelmsford Machine & Supply Co. (Comb & Machine), North Chelmsford, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Rhode Island Braiding Machine Co., Providence, R. I.
Rhode Island Brush Co., Providence, R. I.
Turner, J. S. Mfg. Co. (Comp & Machine), Lowell, Mass.
Voelker, Philip L., 921 Westminster, Providence, R. I.
Wild, Joseph, Fall River, Mass.

### 11573— Burling Irons

American Supply Co., Providence, R. I.

### 11574— Burr Blades

Ames, David J. & Co., Philmont, N. Y.
Cooper, Chas. (Est. of), Bennington, Vt.
Crane Mfg. Co., Lakeport, N. H.
New Brunswick Needle Co., New Brunswick,
Tompkins Bros. Co., Troy, N. Y. N. J.

### 11575— Burring Machines

Arthur Co., 188 Front, New York
Brown Cotton Gin Co., New London, Conn.
Curtis & Marble Mach. Co., Worcester, Mass.
Hemmingway Machine Co., Lynn, Mass.
Gaubert Mfg. Co., 85 Liberty, New York
Lombard Machine Co. (Steel Ring), Worcester, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Proctor"), Phila., Pa.

### Calendering Machines

(See Index of Contents)

### 11576—Calico Printers' Machinery

Arlington Machine Works, Arlington Heights, Mass.
Butterworth, H. W. & Sons Co., Phila., Pa.
Frankford Machine Works, Frankford, Phila., Pa.
Taunton-New Bedford Copper Co., New Bedford, Mass.
Textile Finishing Machinery Co., Providence, R. I.
Waldron, Jno. Co., New Brunswick, N. J.
Watson Machine Co., Paterson, N. J.

### 11577— Cans (Cotton)

New England Ventilating & Heating Co., Providence, R. I.

### 11578— Cans (Drying)

BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)
New England Ventilating & Heating Co., Providence, R. I.

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### 11579— Can (Dye House)

Hill, James Mfg. Co. (Tin & Galvanized Iron), Providence, R. I.

### 11580— Cans (Mill)

Clark, W. J. Co., Salem, O.
Durlach, I., 54 Vesey, New York
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
N. E. Ventilating & Heating Co., Providence, R. I.

### Cans (Roving)

(See Roving Cans)

### 11581— Carbonizers

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Bamford & Smith, Pascoag, R. I.
Blanding, C. L. Mfg. Co., Providence, R. I.
Hudson Fibre Co., Hudson, N. Y.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, Jas. Machine Co., N. Adams, Mass.
Lord, Bowler & Co., 33 Center, Cleveland, O.
Philadelphia Drying Machinery Co. ("Cyclone"), Phila, Pa.
Smith & Furbush Machine Co., Phila., Pa.
Sargent's, C. G. Sons, Graniteville, Mass.
Textile Finishing Machinery Co., Providence, R. I.

### 11582— Card Attachments

Kip-Armstrong Company (Electrical Warp Stop Motion), Pawtucket, R. I.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

### 11583— Card Clothing

American Card Clothing Co., Worcester, Mass.
Ashworth Bros., Fall River, Mass.
Bagshaw, W. H. (Est. of), Lowell, Mass.
Beckwith Card Co., Stafford Springs, Conn.
Booth, Benj. & Co. (Ltd.), 1717 N Bodine, Philadelphia, Pa.
Bowes, L. M. Co. (Imported), Boston, Mass.
Crabb, Wm. & Co., Newark, N. J.
English, C. R. Co., 301 Congress, Boston, Mass.
Firth, Wm. Co. (Yates & Sons & Sykes Bros.), 79 Milk, Boston, Mass.
Howard Bros. Mfg. Co., 42 Vine, Worcester,
Kitson Machine Shop, Lowell, Mass. Mass.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Leicester Card Clothing Co., Leicester, Mass.
Leigh, Evan Arthur (Joseph Sykes Bros.' & Critchley's), 232 Summer, Boston, Mass.
Lombard Machine Co., Worcester, Mass.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co. (Jno. Whitely & Sons & L. M. Tetlow & Sons), 65 Franklin, Boston, Mass.
Southern Card Clothing & Reed Co., Charlotte, N. C.
Speed & Stephenson ("S. Halley & Sons", Ltd.), 170 Summer, Boston, Mass.
Stott, S. E. & T., Lowell, Mass.
Street, R. R. & Co., 186 Washington, Chicago, Ill.
Sykes, Jos. Bros., Charlotte, N. C.

### 11584—Card Cutting Machines

Mason Machine Works, Taunton, Mass.
Royle, John & Sons (Jacquard), Paterson, N. J.

### 11585—Card Grinder Wheels

Stillman-Randall Machine Co., Westerly, R. I.

### 11586—Card Grinding Machines

Barker, James, 6th cor Cayuga, Philadelphia.
Entwistle, T. C. Co., Lowell, Mass. Pa.
Firth, Wm. Co. (Dronsfield), 179 Milk, Boston, Mass.
Lombard Machine Co., Worcester, Mass.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Richards Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co. (Mfrs.' Agts.), 65 Franklin, Boston, Mass.
Roy, B. S., Worcester, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

### 11587— Card Middles

MacSim Bar Paper Co., Otsego, Mich.
Otsego Coated Paper Co., Otsego, Mich.

### 11588—Card Repeaters (Jacquard)

Halton's, Thos. Sons, Allegheny av & C, Philadelphia, Pa.
Royle, John & Sons (French Index & Fine Scale Repeaters), Paterson, N. J.
Schaum & Uhlinger, North Penn Junc., Philadelphia, Pa.

### 11589—Card Stitching Machines (Jacquard)

Singer Sewing Machine Co., 149 B'way, New York

### 11590— Card Stretchers

Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

### 11591— Carders' Tools

Brown, W. H., Worcester, Mass.
Roy, B. S., Worcester, Mass.

### 11592— Cards (Cotton)

Billington, Jas. & Co., 113 Chestnut, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Pevey Foundry Co. (Inc.), Lowell, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Mach. Works, Whitinsville, Mass.

### 11593—Cards (Foss & Pevey)

Fall River Foundry & Machine Co., Fall River, Mass.
Pevey Foundry Co. (Inc.), Lowell, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.

### 11594— Cards (Hand)

Beckwith Card Co. (Stripping), Stafford Springs, Conn.
Columbia Napper Clothing Co., Lawrence, Mass.
Howard Bros. Mfg. Co. (Stripping), Worcester, Mass.
Smith, Jas. Woolen Machinery Co., Phila., Pa.
Watson, L. S. Mfg., Leicester, Mass.

### 11595— Cards (Jacquard)

Case Bros., Highland Park, Conn.
Rogers Paper Co., South Manchester, Conn.

### 11596—Cards (Revolving Flat)

Firth, Wm. ("Asa Lees & Co." Ltd.), 79 Milk, Boston, Mass.
Howard & Bullough's Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11597— Cards (Simplex)

Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

### 11598—Cards (Steel Wire Stripper)

Watson, L. S. Mfg. Co., Leicester, Mass.

### 11599—Cards (Woolen & Worsted)

American Card Clothing Co., Worcester, Mass.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Lees, Jas. & Sons Co., Bridgeport, Pa.
Lombard Machine Co., Worcester, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co. ("Jno. Haigh & Sons", Ltd.), 65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Hancock & Somerset, Phila., Pa.
Speed & Stephenson ("Henry Hirst & Sons", Ltd.), 170 Summer, Boston, Mass.
Watson, L. S. Mfg. Co., Leicester, Mass.

### 11600— Carpet Machinery

Altemus, Jacob K., 2816 N 4th, Phila, Pa.
Alvord, Clinton, 5 Summer, Worcester, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Crompton & Knowles Loom Works, Worcester, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Diamond Textile Machine Works, 436 N 9th, Phila., Pa.
Howard Fdy. & Machine Works, Phila., Pa.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Parks & Woolson Mach. Co., Springfield, Vt.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.

### 11601—Carpet Printing Machines

Waldron, Jno. Co., New Brunswick, N. J.

### 11602—Carpet Rolling Machines

Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.

### 11603— Chenile Machines

Eppler, Jno. Mach. Wks., 629 Filbert, Phila, Pa.

### 11604— Chinchilla Machines

Kenyon, D. R. & Son, Raritan, N. J.

### 11605— Chroming Machines

American Drying Machinery Co., 3301 N. 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.

### 11606— Clogs (Dye House)

Wildman, Jos., 1940 N. Front, Phila, Pa.

### 11607— Cloth Boards

Cady, Geo. L. & Sons, Lowell, Mass.
Case Bros., Highland Park, Conn.
Chaffee Bros. Co., Oxford, Mass.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Sharyock, J. K., 19 S 7th, Phila., Pa.
Thompson, Jas. A., Lowell, Mass.

### 11608—Cloth Brushing Machines

Ardey, S. B. & Sons, Bristol, Pa.
Birmingham Iron Fdy., Derby, Conn.
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
McCreary, Edw'd, Cohoes, N. Y.
Parks & Woolson Machine Co., Springfield, Vt.
Textile Finishing Machinery Co., Providence, R. I.
Thayer, P. E. Co., Pawtucket, R. I.

### 11609—Cloth Calendering Machines

(See also Calendering Machines)

Alton Machine Co., Harrison, N. J., & 126 Liberty, New York
Arthur Co., 188 Front, New York
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
Dennis, John Machine Co., Lowell, Mass.
Kilburn, Lincoln & Co. (Inc.), Fall River, Mass.
Lowell Machine Shop, Lowell, Mass.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co. (Pressure & Friction), Providence, R. I.

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### 11610—Cloth Cutting Machines

**CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y.** (See adv. index, end of book)
Dennis, John Machine Co., Lowell, Mass.
Eastman Machine Co., Buffalo, N. Y.
Maimin, H. ("Ballard," Electric), The Bourse, Philadelphia, Pa.
Universal Cutter Co. (Electric), St. Louis, Mo.
Wildman Mfg. Co. (Electric), Norristown, Pa.

### 11611—Cloth Expanders (Mycock's)

Leyland, Thos. & Co., 60 India, Boston, Mass.

### 11612—Cloth Inspecting Machines

Curtis & Marble Machine Co., Worcester, Mass
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11613—Cloth Measuring Machines

Berlin Machine Works, Beloit, Wis.
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benjamin Co., Paterson, N. J.
Elliott & Hall, Worcester, Mass.
Goodspeed Machine Co., Winchendon, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Textile Finishing Machinery Co., Providence, R. I.
Textile Machinery Works, Reading, Pa.
Voelker, Geo. W. & Co., Woonsocket, R. I.
Windle, J. E., Worcester, Mass.

### 11614—Cloth Pressing Machines

**BEACH-RUSS CO., 53 Green, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

### 11615—Cloth Rolling Machines

Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Mach. Co., Worcester, Mass.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.

### 11616—Cloth Room Sewing Machines

Singer Sewing Mach. Co., 149 B'way, New York

### 11617—Cloth Stamping Machines

Lowell Machine Shop, Lowell, Mass.

### 11618— Cloth Stretchers

American Finishing Machinery Co. (New Bristle), 141 Milk, Boston, Mass.
Birch Bros., Somerville, Mass.
Butterworth, W. H. & Sons Co., Phila., Pa.
Luther, C. A. & Co., Pawtucket, R. I.
Textile Finishing Machinery Co., Providence, R. I.

### 11619—Combs, Circle & Fallers

Bagshaw, W. H. (Est. of), Lowell, Mass.
Bradford Wool Comb Co., 2630 Mascher, Phila., Pa.
Bragg, Jno. L., Providence, R. I.
Crabb, Wm. & Co., Newark, N. J.
Crompton & Knowles Loom Works, Worcester, Mass.
Hood, R. H., 1842 Gtn av, Phila., Pa.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
North Chelmsford Machine & Supply Co., North Chelmsford, Mass.
Richard, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson ("F. H. Bentham's"), 170 Summer, Boston, Mass.
Townsend, Thomas, Providence, R. I.
Turner, J. S. Mfg. Co., Lowell, Mass.

### 11620— Combs (Cotton)

Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Richard, Atkinson & Haserick, 152 Congress, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11621— Combs (Doffer)

Barker, James, 6th cor Cayuga, Phila., Pa.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Smith, James, Woolen Machinery Co., Philadelphia, Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11622— Combs (Slasher)

American Supply Co., Providence, R. I.
Emmons Loom & Harness Co., Lawrence, Mass.
Fitzgerald Loom Reed Co., N 2d & Diamond, Phila., Pa.
Gowdey, J. A. Reed & Harness Mfg. Co., Providence, R. I.
Loom Reed & Harness Co., Charlotte, N. C.
McGregor & Sons, Fall River, Mass.
Southern Card Clothing & Reed Co., Charlotte, N. C.
Textile Finishing Mach'y Co., Providence, R. I.
Walker Mfg. Co., J & E Ontario, Phila., Pa.

### 11623— Combs (Weavers')

Sylvester, C. F. & Co., Fall River, Mass.

### 11624— Combs (Wool)

Austin, M. E. & Co., Lawrence, Mass.
Bagshaw, W. H. (Est. of), Lowell, Mass.
Bradford Wool Comb Co., 2630 Mascher, Phila., Pa.
Bragg, Jno. L., Providence, R. I.
Crompton & Knowles Loom Works, Worcester, Mass.
Hood, R. H., 1842 Gtn. av, Phila., Pa.
Jefferson, Ed. & Bro., Phila., Pa.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lombard Machine Co., Worcester, Mass.
Miller, Wm. Co., Providence, R. I.
Richard, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co., 67 Franklin, Boston, Mass.
Townsend, Thomas, 157 Orange, Providence, R. I.

### 11625— Compass Boards

Crompton & Knowles Loom Works, Worcester,
Hall, I. A. & Co., Paterson, N. J. Mass.

### 11626— Compellators

Turner, J. S. Mfg. Co., Lowell, Mass.

### 11627— Cone Tubes

(See Cop Tubes)

### 11628—Conveyors (Pneumatic)

Buffalo Forge Co., Buffalo, N. Y.
Green Fuel Economizer Co., Matteawan.
Kitson Machine Shop, Lowell, Mass. N. Y.
Schnitzler, Chas. H., 215 N. 2d, Phila., Pa.

### 11629—Conveyors (Waste End)

New England Ventilating & Heat Co., Providence, R. I.
Rushton-Carroll Co. ("Robinson & Conley's"), Providence, R. I.

### Cop Skewers

(See Skewers)

### 11630—Cop Tube Machinery

Eppler, Jno. Mach. Wks., 629 Filbert, Phila., Pa.

### 11631— Cop Tubes (Paper)

American Textile Specialty Machinery Co. ("Never-Slip"), Providence, R. I.
Brown, Jas., Jr., Manayunk, Phila., Pa.
Calder Machine Works, 420 N 3rd, Phila., Pa.
Douglas, Robt. D., Fall River, Mass.
Fraprie-Douglas Co., Fall River, Mass.
Lowell Paper Tube Co., Lowell, Mass.
McCausland, Jno. E., Providence, R. I.
Pairpoint Corporation, New Bedford, Mass.
Sayford Paper Specialty Co., Camden, N. J.
Taylor, Chas. F., 15 Custom, Providence, R. I.
Textile Tube Co., Fall River, Mass.

### 11632— Cop Tubes (Tin)

Getchell, S. S. & Son, Woonsocket, R. I.

### 11633—Copper Work (Dyers')

American Copper & Brass Works, Cincinnati, O.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Grebenzik, H. & Son, N Paterson, N. J.
North River Copper Works, 68 Hudson, Jersey City, N. J.
Rome Metal Co., Rome, N. Y.
Taunton-New Bedford Copper Co., New Bedford, Mass.
Textile Finishing Machinery Co., Providence,
Wilson, D. H. & Co., Lowell, Mass. R. I.

### 11634—Corduroy Cutting Machines

Firth, Wm. Co. (Cotton Cord & Velvet Cutting Machine Co.'s), 79 Milk, Boston, Mass.

### 11635— Cotton Bandings

(See also Braided Banding)
Am. Supply Co., Providence, R. I.
Briggs, H. A. & Co., Pawtucket, R. I.
Chase, F. A. & Co., Providence, R. I.
Covel & Osborn Co., Fall River, Mass.
Elder, Jas., 231 W Penn, Germantown, Phila., Pa.
Hodson, John M., Markle & Boone, Phila., Pa.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Hooper, Wm. E. & Sons Co., Baltimore, Md.
Lees Mfg. Co., Westport, Conn.
Russell Mfg. Co., Middletown, Conn.
Small Bros., Fall River, Mass.

### 11636—Cotton Batting Machinery

Franklin Machinery Co., Providence, R. I.
Hunter, Jas. Machine Co., N Adams, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

### 11637—Cotton Cord Cutting Machines

Firth, Wm. Co. (Cotton Cord & Velvet Cutting Machine Co.'s), 79 Milk, Boston, Mass.

### 11638— Cotton Machinery

(See also the Particular Article Required)
Abbott, J. V. Mfg. Co., Dedham, Mass.
Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Ashton, A. T., Machine Co., Pawtucket, R. I.
Brigham, Arthur A., 17 Milk, Boston, Mass.
Brockway & Meckenstrum Mach. Co., Moodus, Conn.
Brownell, G. L., 49 Union, Worcester, Mass.
Butterworth, H. W. & Sons Co., Phila., Pa.
Clark, J. Machy. Co. (Dealers), Lowell, Mass.
Cohoes Iron Foundry & Machine Co. (Slashing Machinery of Every Description), Cohoes, N. Y.
Compton & Knowles Loom Works, Worcester, Mass.
Curtis & Marble Machine C., Worcester, Mass.
Diamond Textile Machine Works, 436 N 9th,
Draper Co., Hopedale, Mass. Phila, Pa.
Duckrow, R. A. (Dealer), Troy, N. Y.
Easton & Burnham Machine Co., Pawtucket,
Entwistle, T. C. Co., Lowell, Mass. R. I.
Fales & Jenks Machine Co., Pawtucket, R. I.
Fall River Foundry & Machine Co., Fall River, Mass.
Franklin Machine Co., Providence, R. I.
Firth, Wm. Co. (Asa Lees & Co.'s), 79 Milk, Boston, Mass.


# Cutting Machines

"Every manufacturer has his own particular problems. If these problems are related to Cutting of CLOTH or PAPER in any way, shape or form, we shall be glad to solve them."

—Cameron Machine Co.

# Cameron Machine Co.

61 Poplar St. BROOKLYN, N. Y.

Makers of

CUTTING MACHINES

FOR CLOTH AND PAPER


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Howard & Bullough American Machine Co. (Ltd.), Pawtucket, R. I.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Hughes & Russum, Fkd., Phila., Pa.
Kilburn, Lincoln & Co., Fall River, Mass.
Kitson Machine Shop, Lowell, Mass.
Lazenby, F. A. & Co., Bush & Wicomico, Baltimore, Md.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Nat'l Machy. Co. (Dealers), Providence, R. I.
Parks & Woolson Mach. Co., Springfield, Vt.
Payne, Geo. W. Co., Pawtucket, R. I.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co., 67 Franklin, Boston, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Schofield, Geo. L., 123 N Front, Phila., Pa.
Smith, Geo. E. (Dealers), Cohoes, N. Y.
Speed & Stephenson, Boston, Mass.
Universal Winding Co., 95 South, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.
Whitinsville Spinning Ring Co., Whitinsville, Mass.
Woonsocket Mach. & Press Co., Woonsocket, R. I.

### 11639— Cotton Softeners

Arabol Mfg. Co., 155 William, New York
Arnold, Hoffman & Co. (Inc.), Providence, R. I.
Draper, J. O. Co., Pawtucket, R. I.
Bosson & Lane (Atlantic), Boston, Mass.
Corey, S. J. Co., 88 Broad, Boston, Mass.
Fox, Chas. J., 313 S Phillip, Phila., Pa.
Harding & Fancourt, 1095 G't'n av, Phila, Pa.
Holbrook Mfg. Co., 470 Wash'n, New York
Loos & Dilworth, 44 N Delaware av, Phila., Pa.
Wilmington Oil Co. (Inc.), Wilmington, Del.

### 11640—Counters (Spindle Speed)

Draper Co., Hopedale, Mass.

### 11641— Crabbing Machines

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., Phila., Pa.
Hunter, Jas. Machine Co., N Adams, Mass.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.

### 11642— Creels

Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Eastwood, Benj. Co., Paterson, N. J.
Lever, Oswald (Spool. for Warping Mill for Lace Looms), Lehigh & Mascher, Phila., Pa.
Smith, Jas. Woolen Machinery Co., Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.

### 11643—Crochet Machines (Red Blanket)

Merrow Machine Co., Hartford, Conn.

### 11644—Crocheting Machinery

Berlin Machine Works, 149 B'way, New York
Merrow Machine Co., Hartford, Conn.
National Automatic Knitter Co., 1020 Susquehanna av, Phila, Pa.

### 11645—Cuff Machines (Flat Ribbed)

Pepper Mfg. Co., Lakeport, N. H.

### 11646— Cut Markers

Butterworth, H. W. & Sons Co., Phila., Pa.
Draper Co., Hopedale, Mass.
Textile Finishing Machinery Co., 17 Exch pl. Providence, R. I.

### 11647—Cutters (Automatic Peg & Lace Hole)

Royle, John & Sons, Paterson, N. J.

### 11648— Cutters (Carpet)

Reed Mfg. Co. (Foot & Belt Power), Springfield, Ohio

### 11649— Cutters (Chenille)

Altemus, Jacob K., 2816 N 4th, Phila., Pa.
CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

### 11650— Cutters (Cloth)

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Eastman Machine Co., 45 N Division, Buffalo, N. Y.
Warth, A. (Est. of), Stapleton, S. I., New York

### 11651— Cutters (Flock)

Curtis & Marble Mach. Co., Worcester, Mass.

### 11652— Cutters (Gusset)

Utica Novelty & Hill Specialty Co., Utica, N. Y.

### 11653—Cutters (Knit Fabric)

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Kennedy Machine Co., Cohoes, N. Y.
Langston, Sam'l M., 9th ab Market, Camden, N. J.
Oswego Machine Works (Niel Gray, Jr., Propt.), Oswego, N. Y.
Parsons, Henry & Son, Marlboro, Mass.
Universal Cutter Co., 4565 Scott av, St. Louis, Mo.
Wildman Mfg. Co. (Cloth also), Norristown, Pa.

### 11654— Cutters (Plush)

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Dennis, John Machine Co., Lowell, Mass.

### 11655— Cutters (Rag)

Curtis & Marble Machine Co., Worcester, Mass.

### 11656— Cutters (Rib)

Beattie Machine Works, Cohoes, N. Y.
CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Cooper, Charles (Est. of.), Bennington, Vt.
Wildman Mfg. Co., Norristown, Pa.

### 11657— Cutters (Velvet)

CAMERON MACHINE CO., 61 Poplar, B'klyn, N. Y. (See adv. index, end of book)

### 11658—Cylinders (Knitting Machine)

Branson Machine Co., 506 N American, Phila., Pa.
Brinton, H. Co., 213 Race, Phila, Pa.
Cook, Stephen S., 624 Race, Phila., Pa.
Paxton & O'Neil, 541 N 3d, Phila., Pa.
Stafford & Holt, Little Falls, N. Y.

### 11659—Cylinders (Slasher)

Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.
Grebenzik, H. & Son, North Paterson, N. J.
Mullin, D. W. & Co., Lowell, Mass.
Textile Finishing Machinery Co., Providence, R. I.
Wilson, D. H. & Co., 279 Dutton, Lowell, Mass.

### 11660—Cylinders (Spinning)

Hill, Jas. Mfg. Co., Providence, R. I.
Whittle, James H. (Tin), Worcester, Mass.

### 11661— Cylinders (Tin)

New England Ventilating & Heating Co., Providence, R. I.
Getchell, S. S. & Son, Woonsocket, R. I.

### 11662—Cylinders & Dials (Forged Steel)

Cook, Stephen S., 624 Race, Philadelphia, Pa.

### 11663—Cylinders & Dials (Knitting Machine)

McMichael, A., 22 Armat, Phila, Pa.
Pearce, Geo. B. & Co., 2316 N 8th, Phila, Pa.

### 11664—Dampening Machines

American Moistening Co., 79 Milk, Boston.
Birch Bros., Somerville, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Textile Finishing Machinery Co., Providence, R. I.

### 11665— Dobbies

Atwood-Morrison Co., Stonington, Conn.
Crompton-Thayer Loom Co., Worcester, Mass.
Eastwood, Benj. Co. (Silk), Paterson, N. J.
Mason Machine Works, Taunton, Mass.
Stafford Co., Readville, Mass.
Voelker, Geo. W. & Co., Woonsocket, R. I.

### 11666— Dobby Chains

Rice, H. P., Sutton, Mass.

### 11667— Doublers

Atherton Machine Co. (For Silk Mills), Paterson, N. J.
Atwood-Morrison Co. (Worsted), Stonington, Conn.
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benj. Co. (Silk), Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.
Textile Machine Works, Reading, Pa.

### 11668— Dressers (Cotton)

Whitin Machine Works, Whitinsville, Mass.

### 11669— Dressers (Thread)

Luther, C. A. & Co., Pawtucket, R. I.

### 11670— Dressers (Warp)

Philadelphia Textile Machinery Co. ("Furbush"), Phila, Pa.
Smith, Jas., Woolen Machinery, 411 Race, Phila, Pa.
Smith & Furbush Machine Co., 17 Exchange pl, Providence, R. I.
Textile Finishing Machinery Co., Providence, R. I.

### 11671— Dressers (Wool)

Butterworth, H. W. & Sons Co., 2405 E York, Phila., Pa.

### 11672— Dressers (Yarn)

Franklin Machine Co., Providence, R. I.
Luther, C. A. & Co., Pawtucket, R. I.

### 11673— Drop Wires

Blackstone Reed & Harness Co., Pawtucket,
Brooks, M. S. & Sons, Chester, Conn. R. I.
U. S. Bobbin & Shuttle Co., Providence, R. I.

### 11674—Dry Poles (Enameled) for Silk Dyers

American Enamel Co., Providence, R. I.

### 11675— Dryers (Carpet)

Butterworth, W. H. & Sons Co., 2415 E York, Philadelphia, Pa.
Curtis & Marble Machine Co., Worcester, Mass.

### 11676— Dryers (Cloth)

Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
Butterworth, H. W. & Sons Co., 2405 E York, Philadelphia, Pa.
Green Fuel Economizer Co., Matteawan, N. Y.
Kenyon, D. R. & Son, Raritan, N. J.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
STURTEVANT, B. F. CO., Hyde Park, Mass. (See adv. index & branch offices, end of book)
Textile Finishing Machinery Co., Providence, R. I.

### 11677— Dryers (Cotton)

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Kitson Machine Shop (Raw Stock Cotton), Lowell, Mass.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Salem Iron Works, Winston Salem, N. C.
Sargent's, C. G. Sons, Graniteville, Mass.
Speed & Stephenson, 170 Summer, Boston, Mass.

### 11678— Dryers (Hair)

BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y. (See adv. index, end of book)
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Sargent's, C. G. Sons, Graniteville, Mass.

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### 11679—Dryers (Hot Air Apron)

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

### 11680— Dryers (Underwear)

American Drying Machinery Co., Westmoreland & P. & R. Ry., Phila., Pa.
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
Green Fuel Economizer Co., Matteawan, N. Y.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Salem Iron Works, Winston Salem, N. C.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
Utica Novelty & Mill Specialties Co. (Knit Goods in the Roll), Utica, N. Y.

### 11681— Dryers (Warp)

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Clark, George P., Windsor Locks, Conn.
Textile Finishing Machinery Co., Providence, R. I.

### 11682— Dryers (Wire Top)

Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

### 11683— Dryers (Wool)

American Blower Co., Detroit, Mich.
American Drying Machinery Co., Westmoreland. & P. & R. Ry., Phila., Pa.
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
Green Fuel Economizer Co., Matteawan, N. Y.
Hunter, James, Machine Co. ("Stone"), N. Adams, Mass.
Kitson Machine Shop, Lowell, Mass.
Lorimer Machinery Co., Ontario & N Lawrence, Phila., Pa.
National Blower Works, 17th & St. Paul av, Milwaukee, Wis.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James Woolen Machinery Co., Phila., Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

### 11684— Dryers (Yarn)

American Drying Machinery Co., Westmoreland. & P. & R. Ry., Phila., Pa
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Cell Dryer Machine Co., Taunton, Mass.
Green Fuel Economizer Co., Matteawan, N. Y.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Sargent's, C. G. Sons, Graniteville, Mass.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

### 11685—Drying Machines (Print Works)

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Textile Finishing Machinery Co., 17 Exch pl, Providence, R. I.

### 11686—Duck Slitting Machines

Thropp, Wm. R. & Sons Co., Trenton, N. J.

### 11687— Dusters (Rag)

Bagshaw, W. H. (Est. of), Lowell, Mass.
Gerry, Geo. & Son, Athol, Mass.
Kitson Machine Shop, Lowell, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James Woolen Machinery Co., Phila., Pa.

### 11688—Dusters (Wool & Waste)

Curtis & Marble Machine Co., Worcester, Mass.
Gerry, Geo. & Son, Athol, Mass.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunter, Jas. Machine Co., North Adams, Mass.
Lahue, M. M. & Co., Lowell, Mass.
Lombard Machine Co., Worcester, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.

### 11689— Dye Becks

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Watson Machine Co., Paterson, N. J.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### Dye Kettles

(See Copper Work, Dyers')

### 11690— Dye Tubs

Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
**STEARNS, A. T. LUMBER CO.,** Neponset, Boston, Mass. (See adv. index, end of book)
Terhune, J. I. ("Fletcher's"), 164 Ward, Paterson, N. J.
Tolhurst Machine Works, Troy, N. Y.
Woolford, G. Wood Tank Mfg. Co., 1429 Chestnut, Phila., Pa.

### 11691— Dyeing Machinery

Adams Laundry Machinery Co., Troy, N. Y.
American Drying Machinery Co. (Cloth), 3301 N 19th, Phila., Pa.
American Dyeing Machine Co., Camden, N. J.
Arlington Machine Works, Arlington, Mass.
Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Cornell Stocking Corp., New Bedford, Mass.
Delahunty Dyeing Machine Co., Pittston, Pa.
Dubois, A. N., 2170 Sedgeley av, Phila., Pa.
Entwistle, T. C., Lowell, Mass.
Franklin Process Co. (For Cotton, Wool & Worsted Yarns), Providence, R. I.
Hart, Chas., Frankford, Phila., Pa.
Holyoke Machine Co., Holyoke, Mass.
Hopkins Machine Works (Inc.) (Piece), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
Hussong Dyeing Machine Co., Groveville, N. J.
Kenyon, D. R. & Son, Raritan, N. J.
Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.
Klipstein, A. & Co. ("Cohwen"), 82 Beaver, New York
Leigh, E. A., 232 Summer, Boston, Mass.
Lorimer Machinery Co., Ontario cor N Lawrence, Phila., Pa.
Philadelphia Drying Machinery Co. ("Hurricane" Circulating), 6721 Germantown av, Phila., Pa.
Psarski Dyeing Machine Co., Cleveland, O.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Rushton-Carrol Co. ("Bowers"), Providence, R. I.
Salem Iron Works, Winston Salem, N. C.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, Drum & Co., 2503 Coral, Phila., Pa.
Taylor & Fenn Co., 54 Arch, Hartford, Conn.
Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.
Tolhurst Machine Works, Troy, N. Y.
Vacuum Dyeing Mach. Co., Chattanooga, Tenn.
Waters, D. F., 55 Wister, Germantown, Pa.
Watson Machine Co., Paterson, N. J.

### 11692—Dyeing Machines (Skein)

Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 11693— Elevators (Cotton)

American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
Continental Gin Co. (Inc.), Birmingham, Ala., & Bridgewater, Mass.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Jones, Dudley E. Co., Little Rock, Ark.
Thomas-Fordyce Mfg. Co., Little Rock, Ark.

### 11694— Elevators (Spool)

Schnitzler, Charles H., 215 N 2d, Phila., Pa.

### 11695—Embroidery Machines

Ahlstrom, Q. P. 529 B'way, New York
Dubrow & Hearne Mfg. Co., 12 Wooster, New York
Home Embroidery Machine Co., Kansas City, Kan.
Parkes Machine Co., 286 Graham av, Brooklyn, N. Y.
Proctor & Teneriffe Lace Wheel Co., 757 B'way, New York

### 11696—Engravers (Copper Roll)

Dunn Textile Engraving & Mfg. Co., Frankford, Phila., Pa.
Highland Engraving Co., 311 Boulevard, Passaic, N. J.
Hope, Jno. & Sons Engr. & Mfg. Co., Providence, R. I.

### 11697—Engraving Machines (Print Works)

Dunn Textile Engraving & Mfg. Co., Frankford, Phila., Pa.
Hope, John & Sons, Engraving & Manufacturing Co., Providence, R. I.

### 11698—Fabric Pin Ticket Machines

Automatic Pin Ticketing Machine Co., Dayton, Ohio
Saranac Machine Co. ("Advance" for Fabrics), St. Joseph, Mich.

### 11699— Fabric Sizing (Glue)

**HEWITT, C. B. & BROS., 49 Beekman,** New York. (See adv. index, end of book)

### 11700—Feeder Clutch Attachments

Harwood, G. S. & Son, 53 State, Boston, Mass.

### 11701—Feeders (Automatic Self-Weighing Scale)

Harwood, Geo. S. & Son ("Bramwell"), 53 State, Boston, Mass.
Smith, Jas. Woolen Machinery Co., 411 Race, Phila, Pa.

### 11702— Feeds or Feeders

American Drying Machinery Co. ("Kershaw" Web Feed), Westmoreland & P. R. R., Phila., Pa.
Brown Cotton Gin Co., New London, Conn.
Clark Machine & Fdy. Co. ("Bramwell"), Franklin, Mass.
Curtis & Marble Machine Co. (Picker & Card), Worcester, Mass.
Harwood, Geo. S. & Son ("Bramwell" & "Apperly"), 53 State, Boston, Mass.
Hunter, James Machine Co., N. Adams, Mass.
Nath'l Machy. Co., Providence, R. I.
Phila. Drying Machinery Co., Phila., Pa.
Sargent's, C. G. Sons (Automatic, for Cotton & Wool), Graniteville, Mass.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Smith, Jas., Woolen Machinery Co., 41 Race, Phila., Pa.
Smith & Furbush Machine Co., Phila., Pa.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11703— Felt Machinery

Dennis, John Machine Co., Lowell, Mass.
Farrel Foundry & Machine Co., Ansonia, Conn.

### 11704—Felting Machines (Cotton)

Ivens, Wm. H. Sons Co., Trenton, N. J.

### 11705—Finishing Machines (Bandage)

**CAMERON MACHINE CO.** (Surgeons' Bandage Cutting Machines), Brooklyn, N. Y. (See adv. index, end of book)

### 11706—Finishing Machines (Carpet)

Crompton & Knowles Loom Works, Worcester, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Parks & Woolson Mach. Co., Springfield, Vt.

### 11707—Finishing Machines (Cloth)

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila, Pa.
**CAMERON MACHINE CO. (Cloth Cutting,** Folding & Measuring Machines), 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Cavagnaro, Jno. J., 255 Centre, New York
Curtis & Marble Machine Co., Worcester, Mass.
Gessner, David, Worcester, Mass.
Palmer, I. E. Co., Middletown, Conn.
Parks & Woolson Mach. Co., Springfield, Vt.
Rushton-Carroll Co., Providence, R. I.

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Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.
Textile Machine Works, Reading, Pa.
Windle, J. E., Worcester, Mass.

### 11708—Finishing Machines (Knit Goods)

Excelsior Sewing Machine Co., 1216 Columbia av, Phila., Pa.
Grosser Knitting Machine Co., 260 W B'way, New York
Merrow Machine Co. (For all Kinds of Fabrics), Hartford, Conn.
National Automatic Knitter Co., 1020 Susquehanna av, Phila, Pa.
Nye & Frederick Co., 720 Cherry, Phila, Pa.
Smith, Drum & Co., 2503 Coral, Philadelphia, Pa.
Union Special Machine Co., 300 W Kenzie, Chicago, Ill.
Wilcox & Gibbs Sewing Machine Co., 658 B'way, New York

### 11708a—Finishing Machines (Ribbon)

**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)

### 11709—Finishing Machine (Tape)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Textile Finishing Machinery Co., Providence, R. I.

### 11710—Finishing Machines (Wool & Worsted)

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Curtis & Marble Machine Co. (Also Cotton), Worcester, Mass.
Lowell Machine Shop, Lowell, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Schuchardt & Schutte (Dry Decatizing Machine), 90 West, New York
Schwartz, L. H. A. & Co. ("Paul Klug" Decating Machine), 53 State, Boston, Mass.
Textile Finishing Machinery Co., Providence,
Watson Machine Co., Paterson, N. J. R. I.

### 11711— Flax Machinery

Crabb, Wm. & Co., Newark, N. J.
Firth, Wm. Co. ("Mackie & Sons"), 150 Devonshire, Boston, Mass.
Haskell-Dawes Machine Co., 176 Federal, Boston, Mass.
Eddy, W. Plow Co., Greenwich, New York
Leigh, Evan Arthur, 232 Summer, Boston, Mass.

### 11712— Fleecing Machines

(See Napping Machines)

### 11713— Flyers

(See also Frames, Cotton, Fly)

Buckley's, B. Son, Paterson, N. J.
Calder Machine Works, 420 N 3d, Phila., Pa.
Hartson, L. M. Co. (Spinners), North Windham, Conn.
Hayor, Thos. & Son, Providence, R. I.
Hopkins Mach. W'ks (Inc.), Bridgeton, R. I.
Mayor, Thos. & Son ("Bodden"), Providence, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson ("Bairstow Bros."), 170 Summer, Boston, Mass.
Textile Machinery Co. ("Dunn"), 60 India, Boston, Mass.
Thurston, A. G. & Son, Fall River, Mass.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Ward & Vandergrift, Elmer, N. J.
Westcott, A. W. & Son, Hopedale, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11714—Folding Machines (Cloth)

**CAMERON MACHINE CO., 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)
Curtis & Marble Mach. Co., Worcester, Mass.
Elliot & Hall, 50 Hermon, Worcester, Mass.
Johnson, C. A. & Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
McCreary, Edw. M., Cohoes, N. Y.
S. C. F. Machinery Co., Nashville, Mich.
Textile Finishing Machinery Co., Providence,
Windle, J. E., Worcester, Mass. R. I.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11715—Folding & Cutting Machines (Underwear)

Goodwin, J. C., 2d & Diamond, Phila., Pa.

### 11716—Folding & Measuring Machines

**CAMERON MACHINE CO. (Cloth), 61 Poplar,** Brooklyn, N. Y. (See adv. index, end of book)
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benj. Co., Paterson, N. J.
Elliot & Hall, 54 Hermon, Worcester, Mass.
Parks & Woolson Mach. Co., Springfield, Vt.
Textile Finishing Machinery Co., Providence, R. I.

### 11717—Frames (Cotton Drawing)

Altemus, Jacob K., Phila., Pa.
Draper Co., Hopedale, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Franklin Machine Co., Providence, R. I.
Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11718—Frames (Cotton Fly)

Altemus, Jacob K., Phila., Pa.
Fall River Foundry & Machine Co., Fall River,
Lowell Machine Shops, Lowell, Mass. Mass.
Richards, Atkinson & Hoserick, 152 Congress, Boston, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Watson, L. S. Mfg. Co., Leicester, Mass.
Whitin Machine Co., Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11719— Frames (Gassing)

Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.

### 11720—Frames (Hand Lacing)

Royle, John & Sons, Paterson, N. J.

### 11721— Frames (Harness)

Brown Bros. Co., Providence, R. I.
Crompton & Knowles Loom Works, Worcester, Mass.
Benazet Heddle Co., Ltd., S W cor 5th & Girard av, Phila., Pa.
Hakes, H. W. Mfg. Co., Leicester, Mass.
Watson, L. S. Mfg. Co., Leicester, Mass.
Williams, J. H. Co., Utica, N. Y.

### 11722— Frames (Heddle)

Walker Mfg. Co., J. & E. Ontario, Phila, Pa.
Watson, L. S. Mfg. Co., Leicester, Mass.

### 11723—Frames (Intermediate)

Howard & Bullough Am. Machine Co. (Ltd.), Pawtucket, R. I.
Saco-Pettee Co., Newton Upper Falls, Mass.

### 11724— Frames (Jack)

Howard & Bullough Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 11725—Frames (Redrawing)

Atwood-Morrison Co., Stonington, Conn.
Lowell Machine Shop, Lowell, Mass.

### 11726—Frames (Ring Spinning)

Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Fales & Jenks Machine Co., Pawtucket, R. I.
Fall River Foundry & Machine Co., Fall River, Mass.
Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11727— Frames (Roving)

Diamond Textile Machine Works, 436 N 9th, Phila. Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Howard & Bullough Am. Mach. Co. (Ltd.), Pawtucket, R. I.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Speed & Stephenson, 179 Summer, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11728— Frames (Slubbing)

Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Howard & Bullough Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11729— Frames (Spinning)

(See also Frames, Ring Spinning; also Frames, Wool Spinning; also Mules)

Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Fall River Foundry & Machine Co., Fall River,
Flaccus, C. L., 224 N 3d, Phila., Pa. Mass.
Howard & Bullough Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11729a— Frames (Twisting)

(See Twisters)

### 11730—Frames (Wool Spinning)

(See also Mules)

Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Flaccus, C. L., 224 N 3d, Phila., Pa.
Johnson & Bassett, Worcester, Mass.
Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.

### 11731— Fulling Mills

Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., N Adams, Mass.
Kenyon, D. R. & Son, Raritan, N. Y.

### 11732— Garnett Machines

Hunter, Jas. Machine Co., N Adams, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila, Pa.
Smith & Furbush Machine Co. ("Proctor"), Hancock & Somerset, Phila, Pa.

### 11733—Garnett & Card Machines (Combined)

Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

### 11734— Gassing Machines

Brigham, Arthur A., 17 Milk, Boston, Mass.

### 11734a—Gas Singeing Machines

(See Singeing Machines)

### 11735— Gigs (Teasel)

Curtis & Marble Machine Co. (Gessner Patent), Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.

### 11736— Gill Screws

Hood, R. H., 1842 Gtn av, Phila, Pa.

### 11737—Gill & Combing Pins

Dean, John M., Lowell, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.

### 11738—Gills (Preparing & Finishing)

Atherton, A. T. Machine Co., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson, 170 Summer, Boston, Mass.

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### 11739— Glass Rods & Bars

Mitchell-Bissell Co. (Rods for Looms), 4th av & 20th, New York

### 11740— Guide Wires

American Supply Co., 13 Eddy, Providence, R. I.
Blackstone Reed & Harness Co., Pawtucket, R. I.
Brooks, M. S., & Sons, Chester, Conn.
Jencks, E., Mfg. Co., Pawtucket, R. I.
Spencer Wire Co., Worcester, Mass.
Wire Goods Co., 20 Union, Worcester, Mass.

### 11741—Guides (Porcelain & Enameled)

Mitchell-Bissell Co., 4th av & 20th, New York

### 11742— Guides (Thread)

Palmer, I. E. Co. (Adjustable), Middletown, Conn.

### 11743— Hackle Pins

Crabb, Wm. & Co., Newark, N. J.
Lydell & Foulds Paper Co., Manchester, Conn.

### Hackles

(See Combs, Circles & Fallers)

### 11744— Harness Straps

Chicago Raw Hide Mfg. Co., 1301 Elston av, Chicago, Ill.
Coupe, Wm. & Co., South Attleboro, Mass.
Jacobs, E. H. Mfg. Co., Danielsville, Conn.

### 11745— Harness Twine

Allen, J. & S. (Carpet Looms), Walpole, Mass.
Ballou Yarn Co., Providence, R. I.
Cranston Worsted Mills, Bristol, R. I.
Eichmann & Sternberg, 530 B'way, New York
Fawcett, Hughes, 115 Franklin, New York.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Marshall & Co., Kearny, N. J.
Moore, C. & Co., 500 Market, Phila., Pa.
Morgan, E. A., 54 Franklin, New York
Whittier Mills, Springfield, Mass.
Williams, J. H. Co., Utica, N. Y.

### 11746— Harnesses (Loom)

Allentown Reed, Harness & Hill Supply Co., Allentown, Pa.
American Supply Co., Providence, R. I.
Andrews Loom Reed & Harness Co., Spartenburg, S. C.
Blackstone Reed & Harness Co., Pawtucket, R. I.
Carruthers, Robt. Co., Lowell, Mass.
Crabb, Wm. & Co., Newark, N. J.
Emmons Loom Harness Co., Lawrence, Mass.
Excelsior Loom Reed Works, Pawtucket, R. I.
Fowler, Henry C. Loom Harness Co., New Bedford, Mass.
Gibbs Loom, Harness & Reed Co., Clinton, Mass.
Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.
Harris, Geo. W., 199 Perkins, Lowell, Mass.
Hayes Loom, Reed & Harness Co., Woonsocket, R. I.
New Jersey Reed & Harness Co., Paterson, N. J.
Paterson Reed & Harness Co., Paterson, N. J.
Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.
Street, R. R. & Co., 184 Washington, Chicago, Ill.
Ulrich & Co., Paterson, N. J.
Walder, J., Paterson, N. J.
Webster Loom Harness Co., Fall River, Mass.
Wilkins, F. B. & Co., Woonsocket, R. I.
Williams, J. H. Co., Fall River, Mass.

### 11747— Heck Stands

Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

### 11748— Heddles

American Supply Co., Providence, R. I.
Butcher, Edwin, Worcester, Mass.
Carruthers, Robt. Co., Lowell, Mass.
Emmons Loom Harness Co., Lawrence, Mass.
Firth, Wm. Co. ("R. Center Fils"), 179 Milk, Boston, Mass.
Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.
Harris, Geo. W., 199 Perkins, Lowell, Mass.
Howard Bros. Mfg. Co., 42 Vine, Worcester, Mass.
Schaum & Uhlinger, N 2d st & Glenwood av, Phila., Pa.
Steel Heddle Mfg. Co., 2110 W Allegheny av, Phila., Pa.
Walder, J., Paterson, N. J.
Walker Mfg. Co., J. & E. Ontario, Phila, Pa.
Watson, L. S. Mfg. Co., Leicester, Mass.
Williams, J. H. Co., Utica, N. Y.

### 11749— Heddles (Braided)

Emmons Loom & Harness Co. ("Thibaud's"), Lawrence, Mass.
Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.

### 11750— Heddles (Jacquard)

American Supply Co., Providence, R. I.

### 11751— Heddles (Steel)

Steel Heddle Mfg. Co., 2110 W Allegheny av, Phila., Pa.
Williams, J. H. Co., Utica, N. Y.

### 11752— Heddles (Wire)

Benazet Heddle Co., Ltd., S W cor 5th & Girard av, Phila., Pa.
Billington, Jos. H. Co., 113 Chestnut, Phila., Pa.
Bull, Wm. C., Bennington, Vt.
Chase, F. A. & Co., Providence, R. I.
Gibbs Loom Harness & Reed Co. ("Tempered Steel"), Clinton, Mass.
Howard Bros. Mfg. Co. (Also Twin Wire German Heddles), 42 Vine, Worcester, Mass.
Watson, L. S. Mfg. Co. (German Tinned Wire), Leicester, Mass.

### 11753— Hoods (Slasher)

New England Ventilating & Heating Co., Providence, R. I.

### 11754— Hooks (Reed)

Ferrari Bros. Co., Paterson, N. J.
New England Specialty Co., No. Easton, Mass.

### 11755—Hosiery Bands & Labels

Albright & Shenton, Reading, Pa.
Bray, J., 2045 E Fletcher, Phila., Pa.
Novelty Printing Co. (Inc.), 2041 E Susquehanna av, Phila., Pa.
Reis, G. & Bro., 640 B'way, New York

### 11756— Hosiery Boards

Bull, Wm. C., Bennington, Vt.
Clarke, Geo. H. & Co., Meredith, N. H.
Pearson, Jos. T., 1815 E Boston av, Kensington, Phila., Pa.
Thalheimer, A. Mfg. Co., Reading, Pa.
Wisconsin Textile Mfg. Co., Two Rivers, Wis.

### Hosiery Machines

(See Knitting Machines, Hosiery)

### 11757—Hosiery Striping Attachment

American Knitting Machine Co., 56 N 6th, Phila., Pa.

### 11758—Humidifying Apparatus

(See also Moistening Apparatus, Air)

American Moistener Co., 79 Milk, Boston, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Carrier Air Conditioning Co. of America, 39 Cortlandt, New York
Coburn, Fred S., Woonsocket, R. I.
Cramer, Stuart W. Co., Charlotte, N. C.
Globe Moistening Co. ("Clarkson's"), Fall River, Mass.
Green Fuel Economizer Co., Matteawan, N. Y.
**GRISCOM-SPENCER CO., 90 West,** New York. (See adv. index & branch offices, end of book)
Kauffman Heating & Engineering Co. ("Kinealy" Purifiers & Humidifiers), St. Louis, Mo.
New England Ventilating & Heating Co., Providence, R. I.
Parks, G. M. Co. ("Turbo" Humidifier), Fitchburg, Mass.
Schutte & Koerting (For Spinning Mills, Tobacco Factories, etc.), 1251 N 12th, Phila., Pa.
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)
**THOMAS & SMITH (Inc.), 116 N Carpenter,** Chicago, Ill., & 432 Hudson, New York. (See adv. index, end of book)

### 11759—Hydro-Extractor Guards

Utica Novelty & Mill Specialty Co., Utica, N. Y.

### 11760— Hydro-Extractors

Adams Laundry Machinery Co. (For Clothes Wringing), 1935 6th av, Troy, N. Y.
American Tool & Machine Co. ("Weston"), Boston, Mass.
Curtis & Marble Machine Co. (Horizontal), Worcester, Mass.
Empire Laundry Machinery Co., Boston, Mass.
Hagen, A. T. Co., Rochester, N. Y., & 26 S Clinton, Chicago, Ill.
Riley, C. E. & Co., 65 Franklin (Sole agts. for Thos. Broadhursts & Sons' Patent Suspended Steam Driven), Boston, Mass.
Salem Iron Works, Winston Salem, N. C.
Schaum & Uhlinger, N 2d c Glenwood av, Phila, Pa.
Textile Finishing Machinery Co., Providence, R. I.
Tolhurst Machine Works, Troy, N. Y.
Troy Laundry Machinery Co., 23d & La Salle, Chicago, Ill.

### 11761— Indigo Mills

Humphrey Machine Co., Keene, N. H.
Lord, Bowler & Co., 33 Center, Cleveland, O.
Lowell Machine Shop, Lowell, Mass.
Textile Finishing Mach'y Co., Providence, R. I.
Townsend Furnace & Machine Shop, Albany, N. Y.

### 11762— Jack Hooks

Brooks, M. S. & Sons, Chester, Conn.

### 11763— Jiggers

Butterworth, H. W. & Sons Co., 2415 E York, Phila, Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Mackenzie, Duncan & Sons, Trenton, N. J.
Terhune, J. L., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

### 11764— Jute Machinery

(See also Spinning Machinery, Jute)

Haskell-Dafes Machine Co., 176 Federal, Boston, Mass.
Todd, Jos. C. (Est. of), 203 B'way, New York, & Paterson, N. J.

### 11765— Kiers

Dillon, D. M., Fitchburg, Mass.
Jefferson, E. D., 131 State, Boston, Mass.
Leslie, Elliott & Co., Paterson, N. J.
Smith, Samuel & Son Co., Paterson, N. J.
Textile Finishing Machinery Co. (Boiling), Providence, R. I.
Wholey Boiler Works, Providence, R. I.

### 11766—Knit Fabric Slitters & Rewinders

Langston, Samuel M., Camden, N. J.

### 11767—Knitting Machine Attachments

Branson Machine Co., 504 N. American, Phila, Pa.
Climax Machine Co., 2227 Wood, Phila, Pa.
Cooper, Chas. (Est. of), Bennington, Vt.
Sweet & Doyle, Cohoes, N. Y.

### 11768— Knitting Machinery

Acme Knitting Machine & Needle Co. ("Hemphill" "Acme"), Franklin, N. H.
Adams, Geo. H. & Co., Hill, N. H.
Ainslie Knitting Machine Co., Ainslie & Humboldt, Brooklyn, N. Y.
American Knitting Machine Co., 56 N 6th, Phila, Pa.
American Machine Works, 420 Samson, Phila, Pa.
American Twist Drill Co., Laconia, N. H.
Ardrey, S. B. & Sons, Bristol, Pa.
Beattie Machine Works, Cohoes, N. Y.
Boss Knitting Machine Works, Reading, Pa.
Branson Machine Co., 506 N American, Phila, Pa.
Brenner, Jos., N 2d cor Diamond, Phila., Pa.
Brinton, H. Co. (Seamless Ribbed Machines), 213 Race, Phila., Pa.
Burson Mfg. Co., Rockford, Ill.
Central Knitting Co. (Sweaters & Jackets), 780 Madison, Brooklyn, N. Y.
Campbell & Clute, Cohoes, N. Y.
Cook, Stephen S., 624 Race, Phila., Pa.
Cooper, Chas. (Est. of) (Automatic), Bennington, Vt. & Amsterdam, N. Y.
Crane Bros., Westfield, Mass.
Crane Mfg. Co., Lakeport, N. H.
Crawford Mfg. Co., New Brunswick, N. J.
Eppler, Jno. Mach Works, 629 Filbert, Philadelphia, Pa.

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Excelsior Knitting Mach. Mfg. Co., Allentown, Pa.
Fisher Knitting Machine Co., Utica, N. Y.
Flexible Machine Works (Inc.), Reading, Pa.
Gearhart, Jos. E. & Son, Clearfield, Pa.
General Machine Works, York, Pa.
Gormley, Robt. W. & Co., Troy, N. Y.
Grosser Knitting Machine Co., 260 W B'way, New York
Hemphill Mfg. Co. ("Banner"), Central Falls, R. I. Works, Pawtucket, R. I.
Hepworth, Jno. W. & Co., Lehigh av & Memphis, Phila., Pa.
Hodgson, E. A., Laconia, N. H.
Huse, Warren D. & Sons, Lakeport, N. H.
Ives, Loyal T., New Brunswick, N. J.
Jenckes Knitting Machine Co. ("Invincible" Automatic Hosiery), Pawtucket, R. I.
Jones, Lewis, 60½ Media, Phila., Pa.
Kennedy Machine Co., Cohoes, N. Y.
Kilbourn Mfg. Corpn., New Brunswick, N. J.
Lamb Knitting Machine Co., Chicopee Falls, Mass.
Leighton Machine Co., Manchester, N. H.
Lindley, Geo. W., Germantown, Pa.
McMichael, A., Philadelphia, Pa.
Mayo, Geo. D. Machine Co. (Automatic), Laconia, N. H.
Merrow Machine Co., 28 Laurel, Hartford, Conn.
National Automatic Knitter Co., 1020 Susquehanna av, Philadelphia, Pa.
Nye & Tredick Co., 720 Cherry, Phila., Pa.
Paxton & O'Neill, 451 N. 3d, Phila., Pa.
Pearson, W. H. & Sons, Lowell, Mass.
Pepper Mfg. Co., Lakeport, N. H.
Richter, Wolfgang, 535 N. Lawrence, Phila. Pa.
Ruth Automatic Knitting Mach. Co., York, Pa.
Scott & Williams, 2079 E Cumberland, Phila., Pa.
Snyder, Homer P. Mfg. Co., Little Falls, N. Y.
Stafford & Holt, Little Falls, N. Y.
Standard Machine Co., 330 N 12th, Phila., Pa.
Steber Machine Co., 9 Charlotte, Utica, N. Y.
Taylor, James, 121 Arch, Phila, Pa.
Textile Machine Works (Inc.), Reading, Pa.
Tiffany Bros., Bennington, Vt.
Tompkins Bros. Co., Troy, N. Y.
Trump Bros. Machine Co. (Hosiery & Underwear), Wilmington, Del.
Walther, Otho, Bourse bldg., Phila., Pa.
Wilcomb Machine Co. (Inc.), Norristown, Pa.
Wildman Mfg. Co., Norristown, Pa.

## 11769—Knitting Machines (Circular)

Crane Bros., Westfield, Mass.
Crane Mfg. Co., Lakeport, N. H.
Leighton Machine Co., Manchester, N. H.
National Automatic Knitter Co., 1020 Susquehanna av., Phila., Pa.
Nye & Tredick Co., 720 Cherry, Phila, Pa.
Wildman Mfg. Co., Norristown, Pa.

## 11770—Knitting Machines (Hosiery)

Acme Knitting Machine & Needle Co. ("Acme" Seamless), Franklin, N. H.
Branson Machine Co. ("Branson" Hand Power & Automatic), 508 N American, Phila., Pa.
Brinton, H. Co. (Ribbed & Seamless), 213 Race, Phila, Pa.
Cooper, Chas. (Est. of), Bennington, Vt.
Hemphill Mfg. Co., Central Falls, R. I. Works: Pawtucket, R. I.
Jenckes Knitting Machine Co. ("Invincible" Automatic), Providence, R. I.
Lamb Knitting Machine Co., Chicopee Falls, Mass.
Leighton Machine Co., Manchester, N. H.
National Automatic Knitter Co., 1020 Susquehanna av, Phila., Pa.
Nye & Tredick, 720 Cherry, Phila, Pa.
Scott & Williams, 2079 E Cumberland, Phila., Pa.
Standard Mach. Co., 508 Ludlow, Phila., Pa.
Taylor, James, 121 Arch, Philadelphia, Pa.
Trump Bros. Machine Co., Wilmington, Del.

## 11771—Knitting Machines (Rib)

Brinton, H. Co. (For Hosiery & Underwear), 213 Race, Phila., Pa.
Champion Machine Co., Phila., Pa.
Cooper, Chas. (Est. of), (Automatic), Bennington, Vt.
General Machine Works, York, Pa.
Huse, Warren D. & Sons, Laconia, N. H.
National Automatic Knitter Co., 1020 Susquehanna av, Phila., Pa.
Nye & Tredick Co. ("Automatic" Circular), 720 Cherry, Phila., Pa.
Ruth & Co., Norristown, Pa.
Ruth Machine Co., York, Pa.
Scott & Williams (For Underwear, etc.), 2079 E Cumberland, Phila., Pa.
Snyder, Homer P. Mfg. Co., Little Falls, N. Y.
Stafford & Holt, Little Falls, N. Y.
Wildman Mfg. Co. (Circular), Norristown, Pa.

## 11772—Knitting Machines (Seamless)

Acme Knitting Machine & Needle Co. ("Acme", "Hemphill"), Franklin, N. H.
American Knitting Machine Co., 56 N 6th, Phila., Pa.
Boss Knitting Machine Works, Reading, Pa.
Brinton, H. Co. (For Hosiery & Underwear), 213 Race, Phila, Pa.
National Automatic Knitter Co. (Also Lace Effects), 1020 Susquehanna av, Phila., Pa.
Scott & Williams (Automatic Hosiery), 2079 E Cumberland, Phila., Pa.
Trump Bros Machine Co., Wilmington, Del.

## 11773— Knotters (Spooler)

Barber-Colman Co., Rockford, Ill.

## 11774— Labeling Machines

Automatic Pin Ticketing Mach. Co., Dayton, O.
Beck, C. Paper Co., 909 Chestnut, Phila., Pa.
F. & G. Novelty Co., 467 B'way, New York
Saranac Electrical Mfg. Co., St. Joseph, Mich.

## 11775— Labels (Underwear)

Jacobs, J. L. & M. Co., Elm sq bldg, New York

## 11776— Lace Machines

Chauvet & Coulter, 247 Centre, New York
Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Lynwood Mfg. Co. (Ribbers), 2d & Westmoreland, Phila., Pa.
Sheppard, Jno. P., Salem, N. J.
Textile Finishing Machinery Co. (Bleaching & Finishing), Providence, R. I.

## 11777—Lacers (Automatic Lock & Loop Stitch)

Royle, John & Sons, Paterson, N. J.

## 11778— Lease Rods

American Enamel Co. (Enameled), Neville, Providence, R. I.
Berry & Johnston, 209 Bedford, Fall River, Mass.
Southern Spool & Bobbin Co. (Enameled), Greensboro, N. C.

## 11778a— Leathers (Lace)

Coupe, Wm. & Co. ("Excelsior" Rawhide), S Attleboro, Mass.

## 11779— Lifting Rod Cleaners

Draper Co. ("Shaw & Flinn's"), Hopedale, Mass.

## 11780—Liquid Bleach Apparatus

National Laundry Machinery Co., Dayton, O.

## 11781— Loom Attachments

American Textile Specialty Co., 143d & Rider av, New York
Asala Co., 415 B'way, New York
Beamen & Smith, Providence, R. I.
Brown Bros. Co., Providence, R. I.
Crompton & Knowles Loom Works, Worcester, Mass.
Eastwood, Benjamin Co., Paterson, N. J.
Lahue, M. M. & Co., 107 Cushing, Lowell,
Stafford Co., Readville, Mass. Mass.

## 11782— Loom Crank Shafts

Babbitt Bros., Fairhaven, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
U. S. Automatic Loom Attachment Co., Lynchburg, Va.

## 11783— Loom Forks

Brown Bros. Co., Providence, R. I.
English, C. R. Co., 301 Congress, Boston, Mass.
Non-Rebounding Loom Fork Co., Fall River, Mass.

## 11784—Loom Frictions (Cork Insert)

Cork Insert Co., 16 State, Boston, Mass.
Eastwood, Benj. Co., Paterson, N. J.

## 11784a— Loom Knives

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

## 11785— Loom Lingoes

Hall, I. A. & Co., Paterson, N. J.
Walder, Jacob, Paterson, N. J.

## 11786— Loom Strapping

Abbott, J. V. Mfg. Co., Dedham, Mass.
American Supply Co., Providence, R. I.
Barlow, John W. Co., Lawrence, Mass.
Brown Bros. Co., Providence, R. I.
Chicago Rawhide Mfg. Co., 1301 Elston av, Chicago, Ill.
Coupe, Wm. & Co., So. Attleboro, Mass.
Graton & Knight Mfg. Co. (Rawhide), Worcester, Mass.
Hall, I. A. & Co., Paterson, N. J.
Helvetia Leather Co., Lancaster, Pa.
Jacobs, E. H. Mfg. Co., Danielson, Conn.
Keystone Belting & Supply Co., Norristown, Pa.
Lahue, M. M. & Co. (Steel Lug Straps & Friction Bands for Warp Beams), Lowell,
Milliken, W. & Son, Franklin, Mass. Mass.
National Leather Mfg. Co., Niles, Mich.
New England Specialty Co., North Easton,
Page Belting Co., Concord, N. H. Mass.
Providence Belting Co., 25 Charles, Providence, R. I.
Weatherhead, Thompson & Co., Pawtucket,
Whiting, Henry F., Lowell, Mass. R. I.

## 11787— Loom Temples

Crompton & Knowles Loom Works, Worcester,
Draper Co., Hopedale, Mass. Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.

## 11788— Looms

Alvord, Clinton, Worcester, Mass.
Crompton & Knowles Loom Works, Worcester,
Draper Co., Hopedale, Mass. Mass.
Eastwood, Benj. Co., Paterson, N. J.
Hughes & Russum (All Kinds), Fdk., Phila., Pa.
Isinger Co., Stenton av. above Wayne Junc., Phila, Pa.
Jefferson, Edw. & Bro., 127 S 2d, Phila, Pa.
Kilburn, Lincoln & Co., Fall River, Mass.
Leigh, Evan Arthur, 232 Summer, Boston,
Lowell Machine Shop, Lowell, Mass. Mass.
Lyall, J. & W., Passaic, N. J.
Mason Machine Works, Taunton, Mass.
Mutual Machine Works, Frankford, Phila, Pa.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Schaum & Uhlinger, No. Penn Junction, Phila, Pa.
Smith, H. B. Machine Co., Smithville, N. J. & 121 Liberty, New York
Stafford Co., Readville, Mass.
Whitin Machine Works, Whitinsville, Mass.
Widmer Bros., 108 N 7th, Paterson, N. J.

## 11789— Looms (Axminster)

Crompton & Knowles Loom Works, Worcester, Mass.
Whitin Machine Works, Whitinsville, Mass.

## 11790— Looms (Bag)

Crompton & Knowles Loom Works, Worcester, Mass.

## 11791— Looms (Broad)

Draper Co., Hopedale, Mass.
Eastwood, Benj., Co., Paterson, N. J.
Lees, James & Sons Co., Bridgeport, Pa.
Mutual Machine Works, Frankford, Phila., Pa.

## 11792— Looms (Carpet)

Chief Mfg. Co., Indianapolis, Ind.
Crompton & Knowles Loom Works, Worcester, Mass.
Leigh, Evan Arthur, 232 Summer, Boston, Mass
Lyall, J. & W., Passaic, N. J.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Worcester Loom Co. ("Wm. Smith & Bros."), Worcester, Mass.

## 11793— Looms (Cassimere)

Crompton & Knowles Loom Works, Worcester, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

## 11794— Looms (Cotton)

Crompton & Knowles Loom Works, Worcester, Draper Co., Hopedale, Mass. Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Hughes & Russum, Frankford, Phila., Pa.

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**Kilburn, Lincoln & Co., Inc., Fall River, Mass.**
**Leigh, Evan Arthur, 232 Summer, Boston, Mass.**
**Lowell Machine Shops, Lowell, Mass.**
**Mason Machine Works, Taunton, Mass.**
**Mutual Machine Works, Frankford, Phila., Pa.**
**Schaum & Uhlinger, Philadelphia, Pa.**
**Smith, H. B. Machine Co., Smithville, N. J. & 121 Liberty, New York**
**Stafford Co., Readville, Mass.**
**Whitin Machine Works, Whitinsville, Mass.**
**Woonsocket Machine & Press Co., Woonsocket, R. I.**

### 11795— Looms (Cotton Duck)

**Lowell Machine Shop, Lowell, Mass.**
**Mutual Machine Works, Frankford, Phila., Pa.**
**Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.**

### 11796— Looms (Curtain)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11797— Looms (Dress Goods)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11798— Looms (Embroidery)

**Walther, Otto (Mfrs.' Agent), Bourse bldg, Phila., Pa.**

### 11799— (Looms Fancy)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Hughes & Russum, Fkd., Phila., Pa.**
**Kilburn, Lincoln & Co., Inc., Fall River, Mass.**
**Mason Machine Works, Taunton, Mass.**
**Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.**
**Stafford, Geo. W. Co., Readville, Mass.**

### 11800— Looms (Felting)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11801— Looms (Gingham)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Draper Co., Hopedale, Mass.**
**Kilburn, Lincoln & Co., Fall River, Mass.**

### 11802— Looms (Goring)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11803— Looms (Jacquard)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Eastwood, Benj. Co., Paterson, N. J.**
**Halton's, Thos. Sons, Phila, Pa.**
**Kilburn, Lincoln & Co., Fall River, Mass.**
**Mutual Machine Works, Frankford, Phila, Pa.**

### 11804— Looms (Jean)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11805— Looms (Jute Carpet)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11806— Looms (Plush)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Mutual Machine Works, Frankford, Phila, Pa.**

### 11807—Looms (Rag Carpet & Rug)

**Newcomb Loom Co., Davenport, Ia.**

### 11808— Looms (Ribbon)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.**
**Widmer Bros., Paterson, N. J.**

### 11809— Looms (Rug)

**Chief Mfg. Co., Indianapolis, Minn.**
**Crompton & Knowles Loom Works, Worcester, Mass.**
**Reed Mfg. Co., Springfield, O.**

### 11810— Looms (Silk)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Eastwood, Benj. Co., Paterson, N. J.**
**Hughes & Russum, Fkd., Phila, Pa.**
**Kilburn, Lincoln & Co., Inc., Fall River, Mass.**
**Mason Machine Works, Taunton, Mass.**
**Royle, John & Sons ("Delaske"), Paterson, N. J.**
**Stafford Co., Readville, Mass.**

### 11811— Looms (Suspender)

**Atherton Machine Co., Paterson, N. J.**
**Crompton & Knowles Loom Works, Worcester, Mass.**
**Schaum & Uhlinger, N 2d & Glenwood av, Phila, Pa.**

### 11812— Looms (Upholstery)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11813— Looms (Velvet)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11814— Looms (Webbing)

**Atherton Machine Co., Paterson, N. J.**
**Crompton & Knowles Loom Works, Worcester, Mass.**
**Kilburn, Lincoln & Co., Fall River, Mass.**

### 11815— Looms (Woolen)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Hughes & Russum, Fkd., Phila, Pa.**
**Leigh, Evan Arthur, 232 Summer, Boston, Mass.**
**Mutual Machine Works, Frankford, Phila, Pa.**
**Smith, James Woolen Machinery Co., 411 Race, Phila, Pa.**

### 11816— Looms (Worsted)

**Crompton & Knowles Loom Works, Worcester, Mass.**
**Hughes & Russum, Fkd., Phila, Pa.**
**Leigh, Evan Arthur, 232 Summer, Boston, Mass.**
**Woonsocket Machine & Press Co., Woonsocket, R. I.**

### 11817— Loopers

**Beattie Machine Works, Cohoes, N. Y.**
**Grosser Knitting Mach. Co., 260 W. B'way, New York**
**Hepworth, Jno. W. & Co., Phila., Pa.**
**Leighton Machine Co., Manchester, N. H.**
**Scott & Williams, 2079 E Cumberland, Phila., Pa.**
**Ward & McLean ("American"), Lockport, N. Y.**

### 11818— Lug Straps

**Black Diamond Lug Strap Co., Reading, Pa.**
**Bond, Chas., Phila., Pa.**
**Chicago Rawhide Mfg. Co. (Rawhide), 1301 Elston av, Chicago, Ill.**
**Houghton, E. F. Co. ("Houghton's Patent Rockers), 240 W Somerset, Phila, Pa.**
**Jacob, E. H. Mfg. Co. ("Crescent," "Eclipse," "Star"), Danielson, Conn.**
**Kelley, W. H. & Co., Reading, Pa.**
**Milliken, W. & Son (Duck, Ticking & Leather), Franklin, Mass.**

### 11819— Lumpers

**Clark Machine & Foundry Co., Franklin, Mass.**
**Gerry, Geo. & Son, Athol, Mass.**
**Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.**

### 11820— Mails (Brass & Steel)

**Ulrich & Co., Paterson, N. J.**
**Walder, Jacob, Paterson, N. J.**

### 11821— Mantle Knittings

**Knit Goods Specialty Co. (All Styles). Chicopee Falls, Mass.**

### 11822—Mercerizing Machines

**Birch Bros., Somerville, Mass.**
**Butterworth, H. W. & Son Co., Phila. Pa.**
**Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.**
**Smith, Drum & Co., 2501 Coral, Phila, Pa.**
**Textile Finishing Machinery Co. (Cloth or Yarn), Providence, R. I.**

### 11823— Mill Soaps

**American Soap & Washoline Co., Cohoes, N. Y.**
**Dobbins Soap Mfg. Co., 119 S 4th, Phila, Pa.**
**Draper, J. O. & Co., Pawtucket, R. I.**
**Eaverson, J. & Sons, Del & Penn. av, Phila, Pa.**
**Economy Soap Mfg. Co., Passaic, N. J.**
**Farrington, W. U. (Est. of), E Greenwich, R. I.**
**Fox, Chas. J., 313 S Philip, Phil, Pa.**
**Hersom, Thos. & Co., New Bedford, Mass.**
**Holbrook Mfg. Co., 470 Washington, New York**
**India Alkali Wks., Boston, Mass.**
**Marseilles Castile Soap Works, 34 Front, New York**
**National Soap Mfg. Co., 2402 Montgomery av, Phila., Pa.**
**Nicetown Mfg. Co., 4301 N 18th, Phila, Pa.**
**O. K. Soap Co., 968 Franklin, Phila, Pa.**
**Providence Sizing Co., Providence, R. I.**
**Rome Soap Mfg. Co., Rome, N. Y.**
**Starace, A. (Importer), 32 B'way, New York**
**Warren Soap Mfg. Co., 77 Summer, Boston, Mass.**
**White & Bagley Co., Worcester, Mass.**
**Woodley Soap Mfg. Co., 37 Norfolk av, Rox, Boston, Mass.**

### Mill Supplies (Textile)

(See Mill & Factory Supplies)

### 11824— Mill Wire Goods

(See Drop Wires, also Guide Wires)

### 11825—Moistening Apparatus (Air)

**American Moistening Co., 79 Milk, Boston, Mass.**
**Carrier Air Conditioning Co. of America, 39 Cortlandt, New York**
**Garland Mfg. Co., Saco, Me.**
**Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West St. bldg, New York**
**Schutte & Koerting Co., 1251 N 12th, Phila., Pa.**
**Smith & Furbush Machine Co., Phila, Pa.**
**STURTEVANT, B. F. CO., Hyde Park, Mass.** (See adv. index & branch offices, end of book)
**THOMAS & SMITH (Inc.), 17 S. Carpenter, Chicago, Ill., & 288 Hudson, New York.** (See adv. index, end of book)
**Turner, J. S. Mfg. Co., Lowell, Mass.**

### 11826—Motions (Bobbin Stop)

**Howard & Bullough Am. Machine Co., Pawtucket, R. I.**

### 11827—Motions (Doffer Comb)

**Barker, Jas., 6th c Cayuga, Phila, Pa.**

### 11828—Motions (Drawing Frame Stop)

**Howard & Bullough, American Machine Co. (Ltd.), Pawtucket, R. I.**
**Riley, C. E. & Co., 65 Franklin, Boston, Mass.**

### 11829— Motions (Evener)

**Lowell Machine Shop, Lowell, Mass.**
**Saco-Pettee Co., Newton Upper Falls, Mass.**

### 11830—Motions (Knitting Machine Stop)

**Crawford Mfg. Co., New Brunswick, N. J.**
**Forry, I. W., West Reading, Pa.**
**Nye & Tredick, 720 Cherry, Phila, Pa.**
**Ruth Machine Co., York, Pa.**
**Wildman Mfg. Co., Norristown, Pa.**

### 11831— Motions (Loom Stop)

**Draper Co., Hopedale, Mass.**

### 11832— Motions (Selvage)

**Crompton & Knowles Loom Works, Worcester, Mass.**

### 11833—Motions (Spooler Stop)

**Curry, Albert & Co., 102 Friendship, Providence, R. I.**
**Fall River Foundry & Machine Co., Fall River, Mass.**
**Lowell, Machine Shop, Lowell, Mass.**
**Schock, G., 514 W 57th, New York**

### 11834—Motions (Twister Stop)

**Draper Co. ("Smith's"), Hopedale, Mass.**

### 11835— Motions (Warp Stop)

**American Textile Appliances Co., 79 Milk, Boston, Mass.**
**Coldwell-Gildard Co. ("C. & G."), Fall River, Mass.**
**Draper Co., Hopedale, Mass.**
**Kip-Armstrong Co. (Electrical), 260 W B'way, New York**
**Mossberg Wrench Co. ("Kip Armstrong" Electric), Central Falls, R. I.**
**Stafford Co., Readville, Mass.**

### 11836— Mule Attachments

**Ames Plow Co., Quincy Hall, Boston, Mass.**
**Bagshaw, W. H. (Est. of), Lowell, Mass.**
**Diamond Textile Machine Works, 436 N 9th, Phila, Pa.**
**Selfert, C. H., 158 York, Phila, Pa.**

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### 11837— Mules (Cotton)

Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Firth, Wm. Co. (Asa Lees & Co., Ltd.), 79 Milk, Boston, Mass.
Leigh, Evan Arthur ("Platt"), 232 Summer, Boston, Mass.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Riley, C. E. & Co. ("Threlfal" Self-Acting), 65 Franklin, Boston, Mass.

### 11838— Mules (Self-Acting)

Frith, Wm. Co. (Asa Lees & Co., Ltd.), 179 Milk, Boston, Mass.
McKerrow, H. G. Co., 88 Broad, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Richards, Atkinson & Haresick, 152 Congress, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, Jas., Woolen Machinery Co. (English & Molton Styles), 411 Race, Phila, Pa.
Smith & Furbush Mach. Co. ("Furbush"), Hancock & Somerset, Phila, Pa.

### 11839— Mules (Woolen)

Johnson & Bassett, Worcester, Mass.
Leigh, Evans Arthur ("Platt"), 232 Summer, Boston, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co. (Self-Acting), 65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

### 11840— Mules (Worsted)

Birch Bros., Somerville, Mass.
Borchers, Rich'd C. & Co., Womrath & Tackawanna Fkd., Phila., Pa.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Firth, Wm. Co. (Asa Lees Co., Ltd.), 79 Milk, Boston, Mass.
Leigh, Evans Arthur ("Platt"), 232 Summer, Boston, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co. (Self-Acting), 65 Franklin, Boston, Mass.

### 11841— Napping Machines

Ardrey, S. B. & Sons, Bristol, Pa.
Birch Bros., Somerville, Mass.
Borchers, Richard C. & Co., Womrath & Tackawanna, Fdk., Phila, Pa.
Curtis & Marble Mach. Co., Worcester, Mass.
Davis & Furber Machine Co., North Andover, Mass.
Gessner, David, 172 Union, Worcester, Mass.
Jones, Lewis, 60½ Media, Phila., Pa.
McCreary, Edw., Cohoes, N. Y.
Parks & Woolson Machine Co., Springfield, Vt.
Smith, James Woolen Machinery Co., 41 Race, Phila, Pa.
Woonsocket Napping Machinery Co., Woonsockett, R. I.

### 11842—Neck Marking Machines

Kennedy Machine Co., Cohoes, N. Y.
Utica Novelty & Mill Specialty Co., Utica, N. Y.

### 11843— Needles (Comber)

Bragg, John I., 24 Atwood, Olneyville, R. I.
Crabb, Wm. & Co., Newark, N. J.
Dean, Jno. M., Lowell, Mass.
Tompkins Bros. Co., Troy, N. Y.
Townsend, Thos., 157 Orange, Providence, R. I.

### 11844—Needes (Crochet Machine)

Merrow Machine Co., Hartford, Conn.

### 11845—Needles (Knitting Machine)

Acme Knitting Machine & Needle Co. ("Hemphill"), Franklin, N. H.
Adams, G. H. & Co., Hill, N. H.
Ames, D. J., Philmont, N. Y.
Beskert Needle & Supply Co., 5921 Green, Gtn., Phila., Pa.
Branson Mach. Co., 506 N American, Phila., Pa.
Brinton, H. Co., 213 Race, Phila, Pa.
Cooper, Chas. (Est. of), Bennington, Vt.
Corey, Wm. Co., Manchester, N. H.
Dodge Needle Co., Manchester, N. H.
Excelsior Needle Co., Torrington, Conn.
Ives Loyal T. Co., New Brunswick, N. J.
Jarrard Needle Works, New Brunswick, N. J.
Lydall & Foulds Paper Co., Manchester, Conn.
Manufacturers' Supplies Co., 418 Arch, Phila., Pa.
New Brunswick Needle Co., New Brunswick, N. J.
Page Needle Co., Chicopee Falls, Mass.
Tioga Needle Mfg. Co., 3539 N Marshall, Phila., Pa.
Wardwell Needle Co., Lakeport, N. H.

### 11846— Needles (Latch)

Acme Knitting Machine & Needle Co. ("Hemphill"), Franklin, N. H.
Adams, Geo. H. & Co., Hill, N. H.
Continental Latch Needle Co., 120 Liberty, New York
Cooper, Chas. (Est. of), Bennington, Vt.
Corey, Wm. Co., Manchester, N. H.
Dodge Needle Co., Manchester, N. H.
Excelsior Needle Co., Torrington, Conn.
Franklin Needle Co., Franklin, N. H.
Lamb Knitting Mfg. Co., Chicopee Falls, Mass.
Page Needle Co., Chicopee Falls, Mass.
Tioga Needle Mfg. Co., 3539 N. Marshall, Phila., Pa.

### 11847—Needles (Sewing Machine)

Eastham, Henry W., Lynn, Mass.
Excelsior Needle Co., Torrington, Conn.
National Needle Co., Springfield, Mass.
Singer Sewing Machine Co., 149 B'way, New York

### 11848—Needles (Spring Knitting)

American Springe Needle Works, New Britain, Conn.
Ames, David J. & Co., Philmont, N. Y.
Cooper, Chas. (Est. of), Bennington, Vt.
Crane Bros., Westfield, Mass.
Crane Mfg. Co., Lakeport, N. H.
Dunz & Nelson, Cohoes, N. Y.
Ives, Loyal T. Co., New Brunswick, N. J.
New Brunswick Needle Co., New Brunswick, N. J.

### 11849—Numbering Machines (Repeater)

Royle, John & Sons, Paterson, N. J.

### 11850—Openers & Feeders (Wool Washer)

Harwood, Geo. S. & Son, 53 State, Boston, Mass.

### 11851—Openers & Lappers (Cotton)

Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
Kitson Machine Shop, Lowell, Mass.
Leigh, Evan Arthur ("Platt"), 232 Summer, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith & Furbush Machine Co., Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

### 11851a—Overseaming Machines

(See Sewing Machines)

### 11852— Oxidizing Machines

American Drying Machinery Co, 2301 N. 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Rothe, O. & P. Mfg. & Supply Co., Norristown, Pa.

### 11853— Padding Machines

Butterworth, H. W. & Sons Co., Phila., Pa.
Textile Finishing Machinery, Co., Providence,
Watson Machine Co., Paterson, N. J. R. I.

### 11854— Piano Machines

Royle, John & Sons, Paterson, N. J.
Schaum & Uhlinger, N. 2d & Glenwood av., Phila., Pa.

### 11855— Picker Leather

Booth & Co., 88 Gold, New York
Chicago Rawhide Mfg. Co. ("Rawhide"), 1301 Elston av, Chicago, Ill.
Coupe, Wm. & Co. ("Excelsior" Raw Hide), S Attleboro, Mass.
Helvetia Leather Co., Lancaster, Pa.
Holbrook Rawhide Co., Providence, R. I.
Houghton, E. F. & Co. ("Vim"), 240 W Somerset, Phila., Pa.
Norwich Belt Mfg. Co. ("Tan-Bo" Rawhide), Norwich, Conn.
Page Belting Co., Concord, N. H.
Pechin, John W., 700 N Front, Phila, Pa.
Popham, Henry & Son ("Black English"), Newark, N. J.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Western Rawhide & Belting Co. ("Rawhide"), Milwaukee, Wis.

### 11856— Picker Parts

Crabb, Wm. & Co., Newark, N. J.
Dodge, Chas. C., Lowell, Mass.

### 11857— Picker Pins

Bagshaw, W. H. (Est. of), Lowell, Mass.
Dodge, C. S. (Hot Forged), Lowell, Mass.
Stott, Sam'l E. & T., Lowell, Mass.

### 11858— Picker Sticks

Brusher, J. B., Norristown, Pa.
Coburn, Fred. S., 243 Main, Providence, R. I.
Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
Ironton Tool Handle Mfg. Co. (Hickory), Ironton, O.
Loveland, L. H., Jr., Rumney, N. H.
Montgomery Lumber & Mfg. Co. (In Quantities), Montgomery, Ala.
New England Shuttle Co., 64 Leverett, Lowell, Mass.
Southern Spool & Bobbin Co. (Hickory), Greensboro, N. C.
Tatem, J. B. & Son, Putnam, Conn.
Torrey Bros. Co., Central Village, Conn.

### 11859— Picker Teeth

Crabb, Wm. & Co., Newark, N. J.
Keystone Drop Forge Works, Chester, Pa.

### 11860— Pickers (Burr)

Brown Cotton Gin Co. ("Parkhurst"), New London, Conn.
Curtis & Marble Machine Co. ("Goddard"), Worcester, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

### 11861— Pickers (Cotton)

Clark Machine & Fdy. Co., Franklin, Mass.
Curtis & Marble Mach. W'ks, Worcester, Mass.
Garland Mfg. Co., Saco, Me.
Holbrook Rawhide Co., Providence, R. I.
Johnston & Potter Mach. Co., Pawtucket, R. I.
Smith & Furbush Machine Co. ("Furbush"), Philadelphia, Pa.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Whitin Mach. Co., Whitinsville, Mass.

### 11862— Pickers (Cotton Filled)

Wilkins Mfg. Co., Woonsocket, R. I.

### 11863— Pickers (Hair)

Bean, Walter N., Stoneham, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Day, J. H. Co., 1144 Harrison av., Cincinnati, Ohio
Ersham, J. B. & Sons' Mfg. Co., Enterprise, Kans.
Smith & Furbush Machine Co. (Improved Opener & Cleaner), Phila., Pa.

### 11864— Pickers (Loom)

Abbott, J. V. Mfg. Co., Dedham, Mass.
Akron Belting Co. (Leather), Akron, O.
American Picker & Strapping Co., Providence, R. I.
Barlow, John W. Co., Lawrence, Mass.
Brown Bros. Co., Providence, R. I.
Coburn, Fred S., 243 Main, Woonsocket, R. I.
Coupe, Wm., & Co., So. Attleboro, Mass.
Crane Bros., Westfield, Mass.
Crompton & Knowles Loom Works, Worcester, Mass.
Garland Mfg. Co., Saco, Me.
Holbrook Rawhide Co., Providence, R. I.
Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
**HUDSON BELTING CO. (Leather), 3** Eston pl, Worcester, Mass. (See adv. index, end of book)
Jacobs, E. H. Mfg. Co. ("Northrop," "XXCY," "Surpass WX," "B. G. D.," "Daisy"), Danielson, Conn.
Kimball, L. S., Lowell, Mass.
Milliken, W. & Son, Franklin, Mass.
Smith, Jas. & Co., 411 Race, Phila., Pa.
Union Belt Co., Fall River, Mass.
Wilkins Mfg. Co., 14 S Main, Woonsocket, R. I.
Williams, J. H. Co., Utica, N. Y.

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### 11865— Pickers (Mixing)

Brown Cotton Gin Co., New London, Conn.
Clark Machine & Foundry Co., Franklin, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.

### 11866—Pickers (Rag or Shoddy)

Clark Machine & Fdy. Co., Franklin, Mass.
Dodge, C. S., Lowell, Mass.
Gerry, Geo. & Son, Athol, Mass.
Kitson Machine Shop, Lowell, Mass.
Lombard Machine Co., Worcester, Mass.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Proctor"), Stott, S. E. & T., Lowell, Mass. Phila., Pa.

### 11867—Pickers & Cleaners (Stock)

Smith, Jas. Woolen Machine Co., 411 Race, Phila., Pa.

### 11868— Pins (Cast Steel)

Hood, R. H. ("English"), 1842 Germantown av, Phila., Pa.

### 11869—Plaiting & Fluting Machines

Ahlstrom, O. J., 711 B'way, New York
Dubrow & Hearne Mfg. Co., 12 Wooster, New York

### 11870—Press Papers & Boards

Case Brothers, Highland Park, Conn.
**HEWITT, C. B. & BROS., 49 Beekman. New York.** (See adv. index, end of book)
Merwin Paper Co., Hartford, Conn.
Wolf Bros., 330 N 12th, Philadelphia, Pa.

### 11871— Pressers & Flyers

Baker Mach. Co. (Inc.), New Bedford, Mass.

### 11872— Pressers (Cloth)

Spence & Rideout (Power Presses with Hollow Seam Plates & Connections), Nashua, N.H.
United States Hoffman Co., Syracuse, N. Y.

### 11873—Pressers (Cloth, Rotary Steam)

Curtis & Marble Machine Co., Worcester, Mass.
Voelker, Geo. W. & Co., Woonsocket, R. I.
Wilbur Press & Machine Co., Woonsocket, R. I.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11874—Presses (Knit Goods)

Cohoes Iron Foundry & Machine Co., Cohoes, N. Y.

### 11875— Presses (Steam)

Hart, Chas., 4617 Hedge, Fkd., Phila., Pa.

### 11876— Presses (Tincture)

Johnson Fdry. & Mach. Wks. ("Yale"), Battle Creek, Mich.

### 11877— Presses (Warp)

Liddell Co., Charlotte, N. C.

### 11878—Pumicing Machines (Worsted)

Curtis & Marle Machine Co., Worcester, Mass.

### 11879— Quillers

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Atherton Machine Co. (For Silk Mills), Paterson, N. J.
Atwood, Morrison Co., Stonington, Conn.
Crompton & Knowles Loom Works, Worcester, Mass.
Eastwood, Benj. Co. ("Silk"), Paterson, N. J.
Lever, Oswald Co. (Cross Traverse), Lehigh av & Mascher, Phila., Pa.
Payne, G. W. Co. (Upright), Pawtucket, R. I.
Rhode Island Braiding Machine Co., Providence, R. I.
Whitin Machine Works ("Long Chain"), Whitinsville, Mass.

### 11880— Quills

Hall, I. A. & Co., Paterson, N. J.
Ulrich & Co., Paterson, N. J.
Walder, Jacob, Paterson, N. J.

### 11881— Railway Heads

Fall River Mach. Co., Fall River, Mass.
Draper Co., Hopedale, Mass.
Fall River Foundry & Machine Co., Fall River
Lowell Machine Shop, Lowell, Mass. Mass
Mason Machine Works, Taunton, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11882— Rashel Machines

Grosser Knitting Machine Co., 260 W B'way, New York

### 11883— Ravelers

American Raveler Co., Philmont, N. Y.
Union Raveler Co., 519 River, Troy, N. Y.

### 11884—Raveling Machines (Yarn)

Taylor, Jas., 121 Arch, Phila, Pa.

### 11885— Reeds

Allentown Reed, Harness & Mill Supply Co., Allentown, Pa.
American Supply Co. (Loom), Providence, R. I.
Andrews' Loom Reed & Harness Works, Spartenberg, S. C.
Baldwin, Jas. Co., Manchester, N. H.
Benazet Heddle Co., Ltd., S W cor 5th & Girard av, Phila., Pa.
Berry & Johnston, Fall River, Mass.
Blackstone Reed & Harness Co., Pawtucket, R. I.
Carruthers, Robt. Co., Lowell, Mass.
Crabb, William & Co., Newark, N. J.
Craig & Scott, Lewiston, Me.
Draper Co., Hopedale, Mass.
Emmons Loom Harness Co., Lawrence, Mass.
Excelsior Loom Reed Works, Pawtucket, R. I.
Fitzgerald Loom Reed Co., N 2d & Diamond, Phila., Pa.
Gibbs Loom, Harness & Reed Co., Clinton, Mass.
Goss, J. & E., Fall River, Mass.
Gowdey, J. A. Reed & Harness Mfg. Co., Providence, R. I.
Hall, I. A. & Co., Paterson, N. J.
Hayes Loom, Reed & Harness Co., Woonsocket, R. I.
Heywood Bros. & Wakefield Co., Gardner, Mass.
Larkin Reed Co., Danielson, Conn.
Luther Reed Mfg. Co., Fall River, Mass.
McGregor & Sons, Fall River, Mass.
New Jersey Reed & Harness Co., Paterson, N. J.
Paterson Reed & Harness Co., Paterson, N. J.
Sawyer, Geo. F. & Son, Saco, Me.
Southern Card Clothing & Reed Co., Charlotte, N. C.
Stewart & Sons, 1627 N. Mascher, Phila., Pa.
Street, R. R. & Co., 184 Washington, Chicago, Ill.
Tilley, Norris, 49 Taylor, Springfield, Mass.
Ulrich & Co., Paterson, N. J.
Walder, J., Paterson, N. J.
Walker Mfg. Co., J. & E. Ontario, Phila, Pa.
Whittaker-Reed Co., Worcester, Mass.
Whittle, Jas. H., Worcester, Mass.
Wilkins Mfg. Co., Woonsocket, R. I.
Williams, J. H. Co., Utica, N. Y.

### 11886— Reels

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Atherton Machine Co. (Power for Silk Mills), Paterson, N. J.
Carpenter, Orville, Pawtucket, R. I.
Draper Co., Hopedale, Mass.
Lever, Oswald, Lehigh av, c Mascher, Phila., Pa.
Firth, Wm. Co. ("Stubbs"), 79 Milk, Boston, Mass.
Hopedale Machine Co., Hopedale, Mass.
Lindsay, Hyde & Co., 2124 E York, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Luther, Chas. A. & Co., Pawtucket, R. I.
Saco-Pettee Co., Newton Upper Falls, Mass.
Sipp Electric & Machine Co. (Power), Paterson, N. J.
Smith, Jas. Woolen Machine Co., 411 Race, Phila., Pa.
Textile Machine Works, Reading, Pa.
Whitin Machine Works, Whitinsville, Mass.

### 11887—Reels (Skeining & Measuring)

Rhode Island Braiding Machine Co., Providence, R. I.

### 11888— Reels (Testing)

Sipp Electric & Machine Co., Paterson, N. Y.

### 11889— Reels (Yarn)

Brown & Sharpe Mfg. Co., Providence, R. I.
Carpenter, Orville, Pawtucket, R. I.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Draper Co., Hopedale, Mass.
Firth, Wm. Co. (Goodbrandt & Co.), 79 Milk, Boston, Mass.
Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Luther, Chas. A. & Co., Pawtucket, R. I.
Saco-Pettee Co., Newton Upper Falls, Mass.
Smith, Jas., Woolen Machinery Co., 311 Race, Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

### 11890— Regulators (Evener)

Kitson Machine Shop ("Britton"), Lowell, Mass.

### 11891—Rib Cutting & Folding Machines

Cooper, Chas. (Est. of.) (Automatic), Bennington, Vt. & Amsterdam, N. Y.

### 11892— Roll Coverers

Aubertin, Jos. F., New Bedford, Mass.
Barlow, Jno. W. Co., Lawrence, Mass.
Bridge, Jno., Chester, Pa.
Burnham, E. E. Co., Lawrence, Mass.
Cummings, Geo. & Son, 29 Bowers, Fall River, Mass.
Davis-McLane Mfg. Co., Fall River, Mass.
Dickey, H. H. & Son, Lewiston, Me.
Hathaway, O. H., Jr., Central Falls, R. I.
Holyoke Machine Co., Holyoke, Mass.
Hood, H. R., 1842 Gtn. av, Phila., Pa.
Houghton, E. F. & Co. ("Vici Leather"), 240 Somerset, Phila., Pa.
Lakey, C. T., Georgiaville, R. I.
Nicholas Top Roll Covering Co., Phenix, R. I.
Nichols & Godfrey, North Adams, Mass.
North Chelmsford Machine & Supply Co., North Chelmsford, Mass.
Pechin, John W., 700 N Front, Phila, Pa.
Rowton, H. A., Fitchburg, Mass.
Skinner, C. E. & J. F., Valley Falls, R. I.
Taylor & Co., Spartanburg, S. C.
Tripp, Jno. & Co., Lowell, Mass.
Turner, J. S. Mfg. Co., Lowell, Mass.
Union Belt Co., Fall River, Mass.
Wainwright, R., Westpoint, Ga.
Wetherell, Orrin B. & Son, Fall River, Mass.

### 11893— Roll Coverers' Tools

American Supply Co., Providence, R. I.
Dennis, John Machine Co., Lowell, Mass.

### 11894—Roller Covering Machines

Turner, J. S. Mfg. Co. ("Turner's" Worsted), Lowell, Mass.

### 11895— Roller Leather

English, C. R. Co., 301 Congress, Boston, Mass.
Houghton, E. F. & Co. ("Vim"), 240 W Somerset, Phila., Pa.

### 11896— Roller Skins

Firth, Wm. Co. (Kershaw & Sons), 79 Milk, Boston, Mass.
Kimball & Brown, Manchester, N. H.
Spencer, Wilton H., Providence, R. I.
Stone, C. Moulton Co., 456 Benefit, Providence, R. I.

### 11897—Rollers (Copper Printing)

Rome Tube Co., Rome, N. Y.
Taunton-New Bedford Copper Co., Taunton, Mass., & New Bedford, Mass.
Textile Finishing Machy. Co., Providence, R. I.

### 11898— Rolls (Card Feed)

(See also Feeds)

Adams, J. T., Lowell, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Harwood, Geo. S. & Son, 53 State, Boston, Mass.
Hood, R. H. ("Harding's" Intersecting), 1842 Gtn av, Phila., Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Smith & Furbush Machine Co. (Metallic), Phila., Pa.
Textile Finishing Machinery Co., 17 Exch. pl. Providence, R. I.

### 11899— Rolls (Fluted)

**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Thurston, A. G. & Son, Fall River, Mass.
Whitin Machine Works, Whitinsville, Mass.

### 11900—Rolls (Hand Banding)

Whitcomb Mfg. Co., Worcester, Mass.

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### 11901—Rolls (Metallic Drawing)
Metallic Drawing Roll Co., Indian Orchard, Mass.

### 11902— Rolls (Temple)
Draper Co., Hopedale, Mass.

### 11903— Rovers & Reducers
Lowell Machine Shop, Lowell, Mass.

### 11904— Roving Cans
**AMERICAN VULCANIZED FIBRE** Co. (Laminar Fibre & "Sullivan" Seamless Manilla Fibre), Wilmington, Del. (See adv. index, end of book)
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO.** ("Laminar" Fibre & "Sullivan" Seamless Manila Fibre), Elsmere, Del. (See adv. index & branch offices, end of book)
Hill, Jas. Mfg. Co. ("Vulcan" Fire), Providence, R. I.
N. E. Ventilating & Heating Co., Providence, R. I.
Spaulding, J. & Sons Co., North Rochester, N. H.
Spaulding-Perkins Co. (Fibre), N Rochester, N. H.

### 11905— Saddle Boxes
Hood, R. H., 1842 Gtn av, Phila., Pa.

### 11905a— Saddles
Dixon Lubricating Saddle Co., Bristol, R. I.

### 11906—Sample Card Machines
American Numbering Machine Co. (Numbering), 291 Essex, Brooklyn, N. Y.
Cummings-Angelum Machine Co., 320 B'way, New York

### 11907— Sanding Machines
Curtis & Marble Machine Co., Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.

### 11908—Scales (Band Tension)
Draper Co., Hopedale, Mass.

### 11909— Scales (Dramming)
Sipp Electric & Machine Co., Paterson, N. J.

### 11910—Scales (Garment, Lever Balance)
Sweet & Doyle, Cohoes, N. Y.

### 11911— Scales (Yarn)
Draper Co. ("Schaer's," also "Schaer's Template & Cloth Calculator"), Hopedale, Mass.
Fairbanks Co., Broome c Elm, New York
Sipp Electric & Machine Co., Paterson, N. J.
Sweet & Doyle, Cohoes, N. Y.

### 11912— Scallop Machines
Merrow Machine Co., Hartford, Conn.
National Automatic Knitter Co., 724 Cherry, Phila., Pa.

### 11913— Scarfing Machines
Luther, C. A. & Co., Pawtucket, R. I.

### 11914—Scouring Machines (Wool)
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Hunter, James Machine Co., North Adams, Mass.
Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.
Lorimer Machinery Co., Ontario cor N Lawrence, Phila, Pa.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., Phila., Pa.

### 11915—Scoring Machines (Yarn)
American Drying Machinery Co., Westmoreland & P. & R. Ry., Phila., Pa.
Phila. Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

### 11916— Screens (Card)
New England Ventilating & Heating Co., Providence, R. I.

### 11917—Separators (Spinning Frame)
Draper Co. ("Rhoades-Chandler"), Hopedale, Mass.

### 11918—Shearing Machines (Textile)
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
Lowell Machine Shop, Lowell, Mass.
Parks & Woolson Machine Co., Springfield, Vt.

### 11919—Shearing & Brushing Machine (Combined)
Curtis & Marble Machine Co., Worcester, Mass.

### 11920— Shoddy Machinery
Kitson Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 11921— Shuttle Blocks
Cox, J. Elwood, Highpoint, N. Y.
Hardwood Specialty Co., end of Main, Memphis, Tenn.
Wood, A. C., Advance, N. S.

### 11922— Shuttle Eyes
Mitchell-Bissell Co., 4th av & 20th, New York

### 11923— Shuttle Guards
Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co. ("Sullivan"), Hopedale, Mass.

### 11924— Shuttle Irons
American Textile Specialty Machinery Co., Providence, R. I.
Litchfield Shuttle Co., Southbridge, Mass.
Marble, E. W. & Co., Wilkinsonville, Mass.
New England Shuttle Co., 64 Leverett, Lowell, Mass.
Richardson & Bottomley, West Mansfield, Mass.
Woonsocket Shuttle Co., Woonsocket, R. I.

### 11925— Shuttle Threaders
Lahue, M. M. & Co., 107 Cushing, Lowell, Mass.

### 11926— Shuttles
American Supply Co., Providence, R. I.
American Textile Specialty Machinery Co., Providence, R. I.
Billington, Jas. H. & Co., Phila., Pa.
Coburn, Fred S., 243 Main, Woonsocket, R. I.
Dudley, D. T. & Son, Wilkinsonville, Mass.
Dudley, S. A., Taunton, Mass.
Griggs Mfg. Co., Lincolnton, N. C.
Hall, I. A. & Co., Paterson, N. J.
Litchfield Shuttle Co., Southbridge, Mass.
Lowell Shuttle Co., Lowell, Mass.
New England Shuttle Co., 64 Leverett, Lowell, Mass.
New Bedford Shuttle Co., New Bedford, Mass.
Sergeson, R. & Co., 1704 Tulip, Phila., Pa.
Shambow Shuttle Co., Woonsocket, R. I.
Southern Shuttle & Bobbin Co., Greensboro, N. C.
Taunton Spindle Co., Taunton, Mass.
Ulrich & Co., Paterson, N. J.
Union Shuttle Co., Lawrence, Mass.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Vermont Spool & Bobbin Co., Burlington, Vt.
Walder, Jacob, Paterson, N. J.
Williams, J. H. & Co., Utica, N. Y.
Woonsocket Shuttle Co., Woonsocket, R. I.

### 11927— Silk Machine Wipers
American Silk Mfg. Co., Frankford, Phila., Pa.
Wilkinson, Seth, Central Falls, R. I.

### 11928— Silk Machinery
Atherton Machine Co., Paterson, N. J.
Atwood-Morrison Co. Stonington, Conn.
Brigham, Arthur A., 17 Milk, Boston, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Cavagnaro, Jno. J. (Silk Finishers), 255 Centre, New York
Crompton & Knowles Loom Works, Worcester,
Eastwood, Benj. Co., Paterson, N. J. Mass.
Hartson, L. M. Co. ("Throwsters"), North Windham, Mass.
Kilburn, Lincoln & Co., Fall River, Mass.
Knapp, C. H., Waite & Rye, Paterson, N. J.
Mason Machine Works, Taunton, Mass.
National Mill Supply Co., Paterson, N. J.
Boyle, Jno. & Son, Paterson, N. J.
Schaum & Uhlinger, N. Penn Junc., Phila., Pa.
Sipp Electric & Machine Co., Paterson, N. J.
Stafford Co., Readville, Mass.
Textile Finishing Machinery Co. (Finishing), Providence, R. I.
Webendorfer & Walling, Paterson, N. J.
Willimantic Machine Co., Willimantic, Conn.

### 11929— Singe Plates
Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Rome Tube Co., Rome, N. Y.
Taunton-New Bedford Copper Co., New Bedford, Mass.
Textile Finishing Machinery Co., Providence, R. I.
Whittle, James H. (Copper), Worcester, Mass.

### 11930— Singeing Machines
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Curtis & Marble Machine Co. (Gas), Worcester, Mass.
Eastwood, Benj. Co. (Gas), Paterson, N. J.
Hussa, Theo. F. (Electric), 136 Liberty, New York
Knapp, C. H., c Waite & Rye, Paterson, N. J.
New England Butt Co., Providence, R. I.
Philadelphia Drying Machinery Co., Phila., Pa.
Rhode Island Braiding Machine Co., Providence, R. I.
Rockwell Engineering Co. (Fine Plate Cloth for Oil, Coal or Gas), 26 Cortlandt, New York
Skevington, Henry H. & Co. (Hosiery), 1610 N Philip, Phila., Pa.
Smith, Drum & Co., 2503 Canal, Phila., Pa.
Textile Finishing Mach'y Co., Providence, R. I.
Textile Machine Works, Reading, Pa.
Watson Machine Co., Paterson, N. J.

### 11931—Singeing Machines (Electric)
Societe Anonyme Electro-Textile (Theo. F. Hussa, Rep.), 136 Liberty, New York

### 11932— Sizing Machines
American Clay Working Mach. Co., Bucyrus, O.
Butterworth, H. W. & Sons Co., 2415 E York, Phila, Pa.
Clark, Geo. R. Co., Windsor Locks, Conn.
Textile Finishing Machinery Co. (Cloth & Yarn), Providence, R. I.

### 11933— Skewers
Fall River Bobbin & Shuttle Co., 821 Cambridge, Fall River, Mass.
Fall River Foundry & Machine Co., Fall River,
Payne, Geo. W. Co. (Cop.), Pawtucket, R. I.
Sherwood Bobbin & Mfg. Co., Greensboro, N. C.
Southern Spool & Bobbin Co., Greensboro, N. C.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Weld Bobbin & Spool Co., Lawrence, Mass.
Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

### 11934— Slashers
Cohoes Iron Foundry & Machine Co. (Cylinder & Hot Air), Cohoes, N. Y.
Entwistle, T. C. Co., Lowell, Mass.
Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.

### 11935—Slashers (Steam, Exhausting Apparatus for)
**STURTEVANT, B. F. CO., Hyde Park,** Mass. (See adv. index & branch offices, end of book)

### 11936— Slubbing Machines
(See also Frames, Slubbing)
Howard & Bullough American Machine Co. (Ltd.), Pawtucket, R. I.
Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.
Lowell Machine Shops, Lowell, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 11937— Soaping Machines
Birch Bros., Somerville, Mass.
Hunt, Rodney Machine Co., Orange, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Textile Finishing Machinery Co. (Open), Providence, R. I.
Watson Machine Co., Paterson, N. J.

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### Soaps (Textile)
(See Mill Soaps)

### 11938— Speeders (Cotton)
Lowell Machine Shop, Lowell, Mass.

### 11939— Spindle Banding
(See Braided Banding; also Spindle Hook Bands)

### 11940— Spindle Bolsters
Bloom & Godley, Trenton, N. J.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Payne, Geo. W. Co., Pawtucket, R. I.
Piqua Handle & Mfg. Co., Piqua, O.
Westcott, A. A. & Sons, Hopedale, Mass.

### 11941— Spindle Hook Bands
Binns Patent Band Co., 1842 Gtn av, Phila., Pa.
Frost, Geo. T. & Sons, Paterson, N. J.

### 11942—Spindle Tubes (Worsted)
Bamford & Smith, Pascoag, R. I.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 11943— Spindles
American Textile Specialty Machinery Co., 363 Rider av, New York
Bamford & Smith Co., Providence, R. I.
Buckley's, B. Son, Paterson, N. J.
Calder Machine Works, 420 E 3d, Phila., Pa.
Dann Bros. & Co., New Haven, Conn.
Draper Co., Hopedale, Mass.
Easton & Burnham Machine Co. (High Speed), Pawtucket, R. I.
Ellsworth Hardwood Co. (Wood of All Varieties), Ellsworth, Me.
Firth, Wm. Co. ("Clapham, Smith & Co.'s"), 79 Milk, Boston, Mass.
Hall, I. A. & Co. ("Cant Slip"), Paterson, N. J.
Hartson, L. M. Co., N. Windham, Conn.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Lever, Oswald Co. (Horizontal, Driven by Belts), Phila, Pa.
Payne, Geo. W. Co., Pawtucket, R. I.
Prue, Frank J. (For Cop Yarn Winding), Woonsocket, R. I.
Taunton Spindle Co., Taunton, Mass.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Ward & Vandegrift, Elmer, N. J.
Westcott, A. W. & Son, Hopedale, Mass.
Whitin Machine Works, Whitinsville, Mass.
Windsor Machine Co. ("Gridley," Automatic), Windsor, Vt.
Wisconsin Textile Mfg. Co., Two Rivers, Wis.

### 11944— Spindles (Cop)
American Textile Specialty Machinery Co. ("Neverslip"), Providence, R. I.

### 11945— Spindles (Dresser)
Payne, Geo. W. Co., Pawtucket, R. I.

### 11946— Spindles (Reel)
Payne, Geo. W. Co., Pawtucket, R. I.

### 11947— Spindles (Shuttle)
Chase, F. A. & Co., Providence, R. I.

### 11948— Spindles (Spooler)
Diamond Textile Machine Works, 436 N 9th, Phila. Pa.
Payne, Geo. W. Co., Pawtucket, R. I.

### 11948a— Spinning Machinery
(See Frames, also Mules)

### 11949—Spinning Machinery (Jute)
Brownell, G. L., 49 Union, Worcester, Mass.
Firth, Wm. Co. (Mackie & Sons), 179 Milk, Boston, Mass.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Watson Machine Co., Paterson, N. J.

### 11950— Spinning Rings
American Supply Co., Providence, R. I.
Brown Bros. Co., Providence, R. I.
Buckley's, Benj. Son, Paterson, N. J.
Draper Co., Hopedale, Mass.
Pawtucket Spinning Ring Co., Pawtucket, R. I.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Westcott, A. W. & Son, Hopedale, Mass.
Whitinsville Spinning Ring Co., Whitinsville, Mass.

### 11951— Spinning Tubes
Bamford & Smith Co., Providence, R. I.
Buckley's, Benj. Son, Paterson, N. J.

### 11952— Splicing Machines
Brigham, Arthur A., 17 Milk, Boston, Mass.

### 11953— Spooler Guides
Draper Co. ("Northrop," "Northrop Improved," "Lawrence"), Hopedale, Mass.
Payne, Geo. W. Co., Pawtucket, R. I.

### 11954— Spoolers (Cotton)
Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 436 N 9th, Draper Co., Hopedale, Mass. Phila, Pa.
Easton & Burnham Machine Co., Pawtucket, Foster Machine Co., Westfield, Mass. R. I.
Lever, Oswald, Lehigh av. & Mascher, Phila, Lowell Machine Shop, Lowell, Mass. Pa.
Lyall, J. & W., Passaic, N. J.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Saco-Pettee Co., Newton Upper Falls, Mass.
Schaum & Uhlinger, N 2d & Glenwood av
Smith, Jas., Woolen Machinery Co., 411 Race, Phila, Pa.
Whitin Machine Works, Whitinsville, Mass.
Wrigley, Thomas, Paterson, Mass.

### 11955— Spoolers (Doubling)
Payne, Geo. W. Co., Pawtucket, R. I.

### 11956— Spoolers (Dresser)
Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Foster Machine Co., Westfield, Mass.
Lever, Osw., Lehigh av c Mascher, Phila., Pa.
Lindsay, Hyde & Co., 2124 E York, Phila, Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila, Pa.

### 11957—Spoolers (Woolen & Worsteds)
Altemus, Jacob K. 2816 N 4th, Phila, Pa.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Easton & Burnham Mach. Co., Pawtucket, R. I.
Foster Machine Co., Westfield, Mass.
Smith, Jas. Woolen Machine Co., 411 Race, Phila., Pa.
Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.

### 11958— Spoolers (Yarn)
Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Foster Machine Co., Westfield, Mass.
Lever, Oswald, Lehigh av. & Mascher, Phila,
Payne, Geo. W. Co., Pawtucket, R. I. Pa.

### 11958a— Spooling Machines
(See Spoolers)

### 11959— Spools
(See also Bobbins)
Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Allen Spool & Printing Co., Mystic, Conn.
American Supply Co., Providence, R. I.
Atwood-Crawford Co., Pawtucket, R. I.
Baldwin, Jas. Co., Manchester, N. H.
Benazet Heddle Co., Ltd., S W cor 5th & Girard av, Philadelphia, Pa.
Bogert & Hopper Co. (Cotton, Ribbon, Wire, etc.), 162 William, New York
Brown Bros. Co., Providence, R. I.
Coburn, Fred S., 243 Main, Woonsocket, R. I.
Elliott & Bartlet, Albany, Me.
Estes, E. B. & Sons (For Cotton, Ribbon, Wire, etc.), 74 Warren, New York
Excelsior Bobbin & Spool Co., Newtown, Pa.
Fall River Bobbin & Shuttle Co., 821 Cambridge, Fall River, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Frary, Edward S., Berlin, N. Y.
Hall, F. A. & P., Lawrence, Mass.
Hambleton Bros., Goffstown, N. H.
Kline, Lewis T. (Thread), Alpena, Mich.
Lestershire Spool Mfg. Co., Lestershire, N. Y.
Marodi Fibre Co., Woonsocket, R. I.
Mawson Spool & Bobbin Co., Lestershire, N.Y.
New England Shuttle Co., 64 Leverett, Lowell,
Novelty Turning Co., Norway, Me. Mass.
Ohio Valley Pulley Works, Maysville, Ky.
Payne, Geo. W. Co., Pawtucket, R. I.
Schutz Bros., 71 W. B'way, New York.
Sherwood Bobbin & Mfg. Co., Greensboro, N. C.
Tebbets, E. L. & Co., Locke's Mills, Me.
Union Shuttle Co., Lawrence, Mass.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Van Riper Mfg. Co., Paterson, N. J.
Vermont Spool & Bobbin Co., Burlington, Vt.
Weatherhead, Thompson & Co., Pawtucket, R. I.
Weld Bobbin & Spool Co., Lawrence, Mass.
Williams, J. H. Co., Utica, N. Y.
Wisconsin Textile Mfg. Co., Two Rivers, Wis.
Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

### 11960—Spools (Dresser, Steel Head)
Sweet & Doyle, Cohoes, N. Y.

### 11961—Spools (Jack, Steel Head)
Sweet & Doyle ("S. & D."), Cohoes, N. Y.

### 11962— Spools (Silk Thread)
Atwood-Crawford Co., Pawtucket, R. I.
Stowell, N. S., Spool & Wood Turning Co., Dixfield, Me.

### 11963— Spools (Warp)
Payne, Geo. W. Co., Pawtucket, R. I.

### 11964— Sprinkling Machines
Textile Finishing Machinery Co., Providence, R. I.

### 11965— Squeezers
Birch Bros., Somerville, Mass.
Textile Finishing Machinery Co. (Chemic & Sour), Providence, R. I.
Watson Machine Co., Paterson, N. J.

### 11967— Steaming Machines
Birch Bros, Somerville, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Hunter, James, Machine Co., N. Adams, Mass.
Schuchardt & Schutte, 90 West, New York
Textile Finishing Machinery Co. ("Rusden" Continuous Chainless), Providence, R. I.

### 11968—Stirrups & Levers (Cotton Machinery)
Dixon Lubricating Saddle Co., Bristol, R. I.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
New England Specialty Co., North Easton, Mass.

### 11969—Stock Cleaners (Four Cylinder)
Smith, Jas., Woolen Machinery Co., 411 Race, Phila, Pa.

### 11970—Stock Oilers ("Spencer")
Hardwood, Geo. S. & Son, 53 State, Boston. Mass.

### 11971— Strapping Machines
(See also Sewing Machines)
American Picker & Strapping Co., Providence, R. I.
Union Button Sewing Machine Co., 164 High, Boston, Mass.

### 11972— Stripping Machines
Leighton Machine Co. (Sweaters, Cardigans, Collarettes & Anklets), Manchester, N. H.
Smith, Drum & Co., 2503 Canal, Phila., Pa.

### 11973— Sweep Sticks
Brusher, J. B., Norristown, Pa.
Montgomery Lumber & Mfg. Co., Montgomery, Ala.

### 11974— Tanks (Bleaching)
**CANTON BOILER & ENGINEERING Co., Canton, O.** (See adv. index, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

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**KITTOE BOILER & TANK CO. Inc.,** Canton, O. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Smith, Samuel & Son Co., Paterson, N. J.

### 1 197—Tapes, Braids & Cords

Barber Mfg. Co. (Spinning Tapes), Lowell, Mass.
Barlow, John W. Co. (Spinning), Lawrence, Mass.
Barton, F. C., 65 Worth, New York
Bibb Mfg. Co., Macon, Ga.
Cathcart, John & Co., 115 Franklin, New York
Chapin, Geo. W., 229 Church, Phila., Pa.
Friedberger, Aaron, Mfg. Co., Germantown, Phila., Pa.
Goff, D. & Sons, Pawtucket, R. I.
Hamilton, J. H. & Co., 25 White, New York
Hoffman-Corr Mfg. Co., 107 Duane, New York
Hope Webbing Co. (Spinning Tapes), Providence, R. I.)
Kavanaugh, Geo. W., Cohoes, N. Y.
Kenyon, Jno. J. Mfg. Co,, Pawtucket, R. I.
Krout & Fite Mfg. Co., Allegheny av & Emerald, Philadelphia, Pa.
Lambeth Rope Corporation (Flat Braided Tapes), New Bedford, Mass.
Pawtucket Tape Co., Pawtucket, R. I.
Steinhal, M. & Co., 219 Greene, New York
Weimer Bros., 2046 Amber, Phila, Pa.
Wick Narrow Fabric Co., 726 Market, Phila, Pa.

### 11976— Teasels

Kellogg Bros., Skaneatles, N. Y.

### Temples

(See Loom Temples)

### 11977— Tenter Clips

Textile Finishing Machinery Co., Providence, R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.

### 11978— Tendering Machines

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Heathcote, John & Son, Providence, R. I.
Kenyon, D. R. & Son, Raritan, N. J.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Taylor & Fenn Co., Hartford, Conn.
Textile Finishing Machinery Co., Providence, R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.

### 11979— "T" Pins

"T" Pin Co., 1 Madison av, New York.

### 11980—Testing Machines (Cloth)

Riehle Bros. Testing Machine Co., 1424 N 9th, Phila, Pa.
Sipp Electric & Machine Co., Paterson, N. J.
Testing Machines (Hosiery Fabric), Holyoke, Mass.

### 11981—Testing Machines (Silk)

Sipp Electric & Machine Co., Paterson, N. J.

### 11982—Testing Machines (Yarn)

American Supply Co., Providence, R. I.
Firth, Wm. Co. (Goodbrandt Co.), 79 Milk, Boston, Mass.
Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila, Pa.
Sweet & Doyle, Cohoes, N. Y.

### 11983— Textile Parts

**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

### 11984—Thread Board (Steel)

Houghton Mfg. Co., Worcester, Mass.

### 11985— Thread Machinery

Atwood-Morrison Co., Stonington, Conn.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Willimantic Machine Co., Willimantic, Conn.

### 11986—Tom-Toms (For Hosiery)

American Drying Machinery Co., 3301 N 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Rothe, O. P. Mfg. & Supply Co. (Ltd.), Norristown, Pa.

### 11987— Trade-Mark Stamps

Kaumagraph Co., 110 W 32d, New York

### 11988— Traveler Cleaners

Whitinsville Spinning Ring Co., Whitinsville, Mass.

### 11989— Traveler Cups

Whitinsville Spinning Ring Co., Whitinsville, Mass.

### 11990— Travelers (Ring)

American Supply Co., Providence, R. I.
Brown Bros. Co., Providence, R. I.
Chase, F. A. & Co., Providence, R. I.
Dary Ring Traveller Co., Taunton, Mass.
De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
Hartson, L. M., Co., N. Windham, Conn.
Jenckes Knitting Machine Co., Pawtucket, R. I.
National Ring Traveler Co., Providence, R. I.
Shaw, Victor Ring Traveler Co., Providence, R. I.
Standard Ring Traveler Co., New Bedford, Mass.
Sterling Ring Traveler Co., Fall River, Mass.
Whitaker Reed Co. ("Royal"), Worcester, Mass.

### 11990a—Travelers (Spinning & Twisting)

(See Travelers, Ring)

### 11991— Tubs (Bleaching)

Dillon, D. M. (For Paper Mills), Fitchburg, Mass.

### 11992—Twine Balling Machines

Draper Co., Hopedale, Mass.
Loyd, Jno. Co., 562 Water, New York

### 11993—Twister Ring Oiling Device

Draper Co. ("Carter"), Hopedale, Mass.

### 11994— Twisters (Carpet)

Reed Mfg. Co. (Foot Power), Springfield, Ohio.

### 11995— Twisters (Cordage)

Brownell, Geo. L., Worcester, Mass.
Lyall, J. & W., Passaic, N. J.

### 11996— Twisters (Cotton)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Brownell, G. L., 49 Union, Worcester, Mass.
Collins Bros., Central Falls, R. I.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Draper Co., Hopedale, Mass.
Franklin Machine Co., Providence, R. I.
Haskell-Dawes Machine Co., 170 Federal, Boston, Mass.
Howard & Bullough American Machine Co., (Ltd.), Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Pawtucket Spinning Ring Co., Pawtucket, R. I.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.
Whitinsville Spinning Ring Co., Whitinsville, Mass.

### 11997— Twisters (Silk)

Atwood-Morrison Co., Stonington, Conn.
Brownell, G. L., 49 Union, Worcester, Mass.
Royle, John & Sons, Paterson, N. J.

### 11998— Twisters (Wool)

Brownell, G. L., 49 Union, Worcester, Mass.
Cleveland Machine Works, Worcester, Mass.
Collins Bros., Central Falls, R. I.
Fales & Jencks Machine Co., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Sargeant's, C. G. Sons, Graniteville, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Philadelphia, Pa.

### 11999— Twisters (Yarn)

Collins Bros., Central Falls, R. I.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Smith & Furbush Machine Co., Phila., Pa.

### 12000—Warp Tying Machines

Barber, Colman Co., Rockford, Ill.

### 12001— Warpers

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
American Warp Drawing Machine Co., 289 A, Boston, Mass.
Atherton Machine Co., Paterson, N. J.
Atwood-Morrison Co., Stonington, Conn.
Butterworth, H. W. & Sons Co., 2415 E. York, Philadelphia, Pa.
Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co. ("Hopedale"), Hopedale, Mass.
Eastwood, Benj., Co. (Silk, Horizontal & Swiss), Paterson, N. J.
Entwistle, T. Co., Lowell, Mass.
Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.
Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Royle, John & Sons, Paterson, N. J.
Sipp Electric & Machine Co. (Silk, Horizontal & Swiss), Paterson, N. J.
Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

### 12002— Warpers (Ball)

Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

### 12003— Warpers (Leese)

Lowell Machine Shop, Lowell, Mass.

### 12004— Warpers (Ribbon)

Atherton Machine Co. (Power for Broad & Ribbon Looms), Paterson, N. J.

### 12005— Warpers (Slasher)

Lowell Machine Shop, Lowell, Mass.

### 12006—Warpers (Swiss Attachment)

Sipp Electric & Machine Co., Paterson, N. J.

### 12007—Warpers & Linkers (Chain)

Draper Co. ("Walcott"), Hopedale, Mass.
Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

### 12008— Warping Mills

Lever, Oswald (For Lace Looms), Lehigh av & Mascher, Phila., Pa.

### 12009—Warping Mills (Sectional)

Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Smith & Furbush Machine Co., Phila., Pa.

### 12010— Warps

Bibb Mfg. Co. (Spool, Carpet, etc.), Macon, Ga.
Dana Warp Mills, Westbrook, Me.
Grant Yarn Co., Fitchburg, Mass.
Greene & Daniels Mfg. Co., Pawtucket, R. I.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Indian Orchard Co., Indian Orchard, Mass.
Montgomery, J. R. Co., Windsor Locks, Conn.
Monument Mills, Housatonic, Mass.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Sternberg, F. & Co., 530 B'way, New York

### 12011—Washer & Fuller Combined

Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., North Adams, Mass.

### 12012— Washers (Cloth)

American Drying Machinery Co., 3301 N. 19th, Phila., Pa.
Birch Bros., Somerville, Mass.
Conklin & Co., 96th & Erie av, Chicago, Ill.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., North Adams, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Textile Finishing Machinery Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

### 12013— Washers (Warp)

Textile Finishing Machinery Co., Providence, R. I.

### 12014— Washers (Wool)

Hunter, James Machine Co., North Adams, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Richards, Atkinson & Haserick, 152 Congress, Boston, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.
Watson Machine Co., Paterson, N. J.

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### 12015— Washers (Yarn)

Textile Finishing Machinery Co., Providence, R. I.

### 12016—Waste Machines (Cotton)

Firth, Wm. Co. (Fatham & Co.'s), 79 Milk, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 12016a—Waste Machines (Engine Clearing)

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

### 12017— Waste Savers

Torrance Mfg. Co. ("Choquette"), Harrison, N. J.

### Weaving Machinery

(See Looms)

### 12017a—Web Folding Machines

Grand Rapids Textile Machinery Co., Grand Rapids, Mich.

### 12017b— Welt Machines

Cooper, Chas. (Est. of) (Automatic Latch Needle), Bennington, Vt., & Amsterdam, N. Y.

### 12017c—Willowing Machines (Wool)

Butterworth, H. W. & Sons' Co., Phila., Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Lombard Machine Co., Worcester, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Smith & Furbush Machine Co. ("Proctor"), Phila., Pa.

### 12017d— Winders

(See also Sub-divisions of this Head)

Allen, A. W. (Yarn), 2427 Mascher, Phila., Pa.
Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Atherton Machine Co. (For Silk Mills), Paterson, N. J.
Atwood-Morrison Co., Stonington, Conn.
Campbell & Clute, Cohoes, N. Y.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Eastwood, Benj. Co. (Silk), Paterson, N. J.
Firth, Wm. Co. (Stubbs), 179 Milk, Boston,
Foster Mach. Co., Westfield, Mass. Mass.
Kennedy Machine Co., Cohoes, N. Y.
Lazenby, F. A. & Co. (Cotton Duck), Bush & Wicomico, Baltimore, Md.
Leighton Machinery Co., Manchester, N. H.
Lever, Oswald Co., Lehigh av & Mascher, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Lyall, J. & W., Passaic, N. J.
Payne, Geo. W. Co. (Cop, Skein or Bobbin), Pawtucket, R. I.
Sipp Electric & Machine Co., Paterson, N. J.
Textile Finishing Machinery Co., Providence,
Textile Machine Works, Reading, Pa. R. I.
Universal Winding Co., Boston, Mass.
Watson Machine Co., Paterson, N. J.
Whitin Machine Works, Whitinsville, Mass.
Wrigley, Thomas, Paterson, N. J.

### 12917e— Winders (Ball)

Franklin Machine Co., Providence, R. I.
North Chelmsford Machine Co., North Chelmsford, Mass.

### 12017f— Winders (Cone)

Brigham, Arthur A. ("Broabent & Brighams"), 17 Milk, Boston, Mass.
Diamond Textile Machine Works, 436 N 9th, Phila, Pa.
Foster Machine Co., Westfield, Mass.
Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Lowell Machine Shop (Camless), Lowell, Mass.
Newton, Edwin A., 310 N 4th, Philadelphia, Pa.
Richards, Atkinson & Hoserick, 152 Congress, Boston, Mass.
Universal Winding Co., 95 South, Boston, Mass.

### 12017g— Winders (Cop)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Lever, Oswald Co., Lehigh av & Mascher, Phila., Pa.
Lindsay, Hyde & Co., 2124 E York, Phila., Pa.
Lyall, J. & W., Passaic, N. J.
Schaum & Uhlinger, N 2d & Glenwood av, Phila. Pa.
Sipp Electric & Machine Co., Paterson, N. J.
Universal Winding Co., 95 South, Boston, Mass.

### 12017h— Winders (Fillet)

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

### 12017i— Winders (Hand)

Branson Machine Co., 506 N American, Phila., Pa.

### 12017j— Winders Hosiery)

Brigham, Arthur A. ("Broabent & Brighams"), 17 Milk, Boston, Mass.
Lever, Oswald Co., Lehign av & Moscher, Philadelphia, Pa.
Lindley, Geo. W., Germantown, Phila., Pa.
Payne, Geo. W. Co., Pawtucket, R. I.
Universal Winding Co., 95 South, Boston, Mass.

### 12018— Winders (Lap)

Saco-Pettee Co., Newton Upper Falls, Mass.

### 12019— Winders (Magnet)

Universal Winding Co., 95 South, Boston, Mass

### 12020— Winders (Quill)

Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.
Sipp Electric & Machine Co., Paterson, N. J.
Universal Winding Co., 95 South, Boston, Mass.

### 12021— Winders (Skein)

Brigham, Arthur A., 17 Milk, Boston, Mass.
Collins Bros., Central Falls, R. I.
Easton & Burnham Mach. Co., Pawtucket, R. I.
Foster Machine Co., Westfield, Mass.
Lever, Osw., Lehigh av & Mascher, Phila., Pa.
Sipp Electric & Machine Co., Paterson, N. J.

### 12022— Winders (Yarn)

Lever, Oswald Co., Lehigh av & Mascher, Philadelphia, Pa.
Universal Winding Co., 95 South, Boston, Mass.

### 12023—Winding Machines (Cloth)

Curtis & Marble Mach. Co., Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Textile Finishing Machinery Co., Providence, R. I.

### 12024—Winding Machines (Hank)

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

### 12025—Winding Machines (Paper Tube)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.

### 12027— Wooden Shells

Martin, Adolph & Son, 270 Bloomfield av, Passaic, N. J.

### 12028—Wool Burring Machines

Curtis & Marble Mach. Co., Worcester, Mass.

### 12029—Woolen & Worsted Machinery

(See also the Specific Article Required)

Altemus, Jacob K., 2824 N 4th, Phila, Pa.
American Worsted Machinery Co., Abington, Mass.
Brown Cotton Gin Co., New London, Conn.
Butteworth, H. W., & Sons' Co., Phila, Pa.
Clark Machine & Foundry Co., Franklin, Mass.
Clark, J. Machy. Co. (Dealers), Lowell, Mass.
Crompton & Knowles Loom Works, Worcester, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Diamond Textile Machine Works, 436 N 9th, Phila., Pa.
Duckrow, R. A. (Dealer), Troy, N. Y.
Firth, Wm., Co., 79 Milk, Boston, Mass.
Harwood, Geo. S. & Son, 53 State, Boston, Mass.
Heathcote, John, & Son, Providence, R. I.
Hood, R. H., 1842 Gtn. av, Phila., Pa.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, Jas. Machine Co., N. Adams, Mass.
Jefferson, Edw., & Bro., 127 S. 2d, Phila., Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lombard Machine Co., Worcester, Mass.
Lowell Machine Shop, Lowell, Mass.
National Machinery Co. (Dealers), Providence, R. I.
Parks & Woolson Machine Co., Springfield, Vt.
Payne, G. W. Co., Pawtucket, R. I.
Phila. Drying Machinery Co., 6721 Germantown av, Phila, Pa.
Riley, C. E. & Co., 65 Franklin, Boston, Boston, Mass.
Richard, Atkinson & Haserick, 152 Congress, Boston, Mass.
Sargent's, C. G. Sons, Graniteville, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith, Geo. E. (Dealer), Cohoes, N. Y.
Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.
Stoddard, Haserick, Richards & Co., Boston, Mass.
Street, R. R. & Co., 184-186 Washington, Chicago, Ill.
Woonsocket Machine & Press Co., Woonsocket, R. I.

### 12030— Wringing Machines

Hunt, Rodney Machine Co., Orange, Mass.

### 12031—Yarn Chaining Machines

Cole Bros., Pawtucket, R. I.

### 12032—Yarn Conditioning Machines

Sargent's, C. G. Sons, Graniteville, Mass.

### 12033—Yarn Printing Machines

Brigham, Arthur A., 17 Milk, Boston, Mass.
Luther, Chas. A. & Co., Pawtucket, R. I.

(END OF TEXTILE MACHINERY)

### 12034— Thalpotasimeters

**NATIONAL GAUGE CO. ("National"),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)

**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

### 12035—Thawers (Dynamite)

**du PONT, E. I. de NEMOURS POW**der Co. ("Bradford", "Catasauqua" & "Miners"), Wilmington, Del. (See adv. index & branch offices, end of book)

### 12036—Theatre Brass Work

(See Bronze, Architectural, Etc.; also Grilles, Brass & Bronze)

### 12037—Theatre Curtains (Asbestos)

Acme Asbestos Covering & Supply Co., 1840 Austin av, Chicago, Ill.
American Asbestos Co., Norristown, Pa.
Carey, Philip Mfg. Co., Lockland, O.
Ehret Magnesia Mfg. Co., Valley Forge, Pa.
**JOHNS, H. W.-MANVILLE CO. ("J-M" Vitribestos),** 100 William, New York (See adv. index & branch offices, end of book)
Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
**WATSON, H. F. CO., Erie, Pa.** (See adv. index & branch offices, end of book)

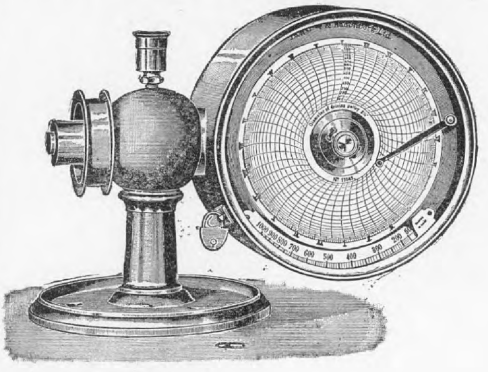
### 12038—Theatre Curtains (Steel)

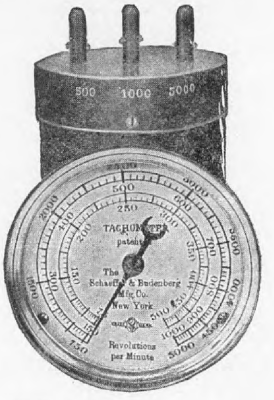
**ELEVATOR SUPPLY & REPAIR CO.,** 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

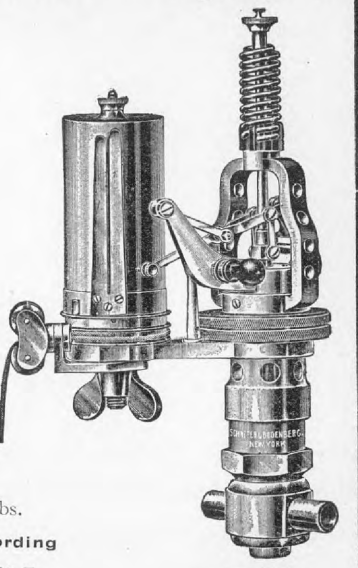
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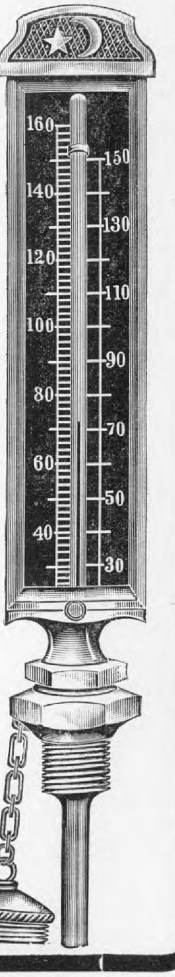
for counting the number of strokes and revolutious made by pumps, engines, or machinery

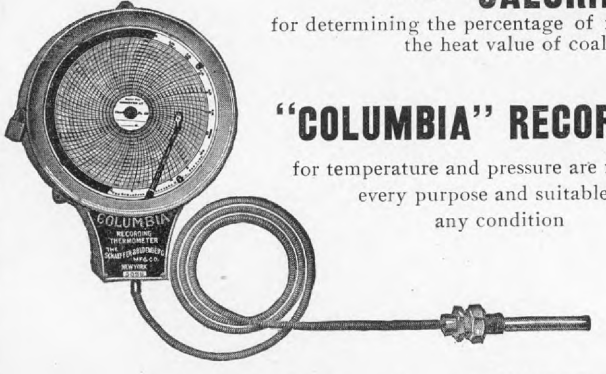
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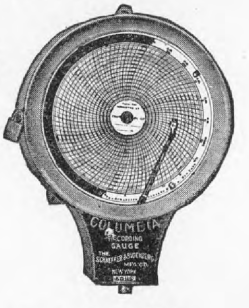
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# REGISTER

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Variety Mfg. Co., Chicago, Ill.

## 12039—Theatre Mechanical Equipment

**ELEVATOR SUPPLY & REPAIR CO.,** 561 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

## 12040— Theatre Seating

(See Opera Chairs & Assembly Seating)

## 12041— Theodolites

Bausch & Lomb Optical Co., Rochester, N. Y.

## 12042— Thermofans

Schutte & Koerting Co. (For Heating & Cooling Air), 1251 N 12th, Phila., Pa.

## 12043—Thermometer-Thermostat

**BRISTOL CO. ("Bristol's"),** Waterbury, Conn. (See adv. index & branch offices, end of book)

## 12044— Thermo Gauges

**MORSE THERMO GAGE CO.** ("Morse"), 208 E State, Ithaca, N. Y. (See adv. index, end of book)

## 12045— Thermometers

Aluminum Goods Mfg. Co. (Aluminum), Manitowoc, Wis.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Bogardus, Henry & Co. ("Trident"), 161 W Huron, Chicago, Ill.
**BRISTOL CO. ("Bristol's," Recording, etc.),** Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Bussey Bros., Phelps, N. Y.
Caloris Co., 2110 Allegheny av, Phila., Pa.
Carondale Instrument Co., Carbondale, Pa.
Dodge, Albert J., Peterboro, N. H.
Draper Mfg. Co., 152 Front, New York
Du Vivier, Ernest H. (Recording), 30 Church, New York
Eimer & Amend (Chemical), 205 3d av, New York
Electrical Appliance Co., Waterbury, Conn.
Greiner, Emil Co., 45 Cliff, New York
**INDUSTRIAL INSTRUMENT CO.** (Industrial), Foxboro, Mass. (See adv. index & branch offices, end of book)
Large, Chas. E., 35 Woodbine, Brooklyn, N. Y.
**LEEDS & NORTHRUP CO. (Resistance** Thermometer Only), Stenton av, Gtn., Phila., Pa. (See adv. index, end of book)
Marshall Mfg. Co., Coshocton, O.
Moreness, E. & Co., Cleveland, N. Y.
**NATIONAL GAUGE CO. ("National,"** for all Mechanical Purposes), 168 8th, B'klyn, N. Y. (See adv. index, end of book)
National Thermometer Co. (Clinical), 125 E 23d, New York
Phila. Thermometer Co., Phila., Pa.
**QUEEN & CO. (Inc.). (Technical),** 1211 Arch, Phila, Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. (Bath, Mechanical & Steam Pipe), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Standard Steam Specialty Co. ("Boston"), 542 W B'way, New York
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.
Wagner, Carl H., 1944 N Albany, Chicago, Ill.
Wagner Glass Works, 699 E 132d, New York
Weinhagen, Henry (For Laboratory, Factory, etc.), 22 N William, New York
Weiskoff, Abram, 16 S Clinton, Chicago, Ill.
Weiss, Albert A. & Co. (For Breweries), 572 Gates av, Brooklyn, N. Y.

## 12046—Thermometers (Advertising)

National Sheet Metal Co. (Stamped Nickelene, etc.), Peru, Ill.

## 12047—Thermometers (Chemical)

Caloris Co., 2110 Allegheny av, Phila., Pa.
Eimer & Amend, 205 3d av, New York
**NATIONAL GAUGE CO., 168 8th,** B'klyn, N. Y. (See adv. index, end of book)
National Thermometer Co., 123 E 23rd, New York
**SCHAEFFER & BUDENBERG MFG.** Co. ("Crescent"), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 12048—Thermometers (Dial)

**INDUSTRIAL INSTRUMENT CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Reform"), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 12049—Thermometers (Feed Water)

**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Columbia" Recording), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 12050—Thermometers (Heating)

American Steam Gauge & Valve Mfg. Co., Boston, Mass.
Ashton Valve Co., Boston, Mass.
Bogardus, H. A. & Co. (Hot Water), 159 W Huron, Chicago, Ill.
**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn. (See adv. index & branch offices, end of book)
Canton Brass & Machine Co. (Hot Water), Canton, Ohio
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO. ("National")** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
**QUEEN & CO. (Hot Water), 1211** Arch, Phila., Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Tagliaue, Chas. J. Mfg. Co., 396 B'way, New York
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.
U. S. Gauge Co. (Hot Water), 67 Wall, New York

## 12051—Thermometers (Hot Water)

(See Thermometers, Steam & Hot Water)

## 12052—Thermometers (Hot Well)

**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Columbia" Recording & "Crescent" Indicating), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 12053—Thermometers (Optical)

**MORSE THERMO GAGE CO., 208 E** State, Ithaca, N. Y. (See adv. index, end of book)

## 12054—Thermometers (Oven)

Cooper Oven Thermometer Co., Pequabuck, Conn.
Day Indicator Co. (Oven Door Indicators), Buffalo, N. Y.
Electrical Appliance Mfg. Co., Waterbury, Conn.
Evans Stamping & Plating Co. ("Acme"), Taunton, Mass.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.

## 12055—Thermometers (Recording)

**BRISTOL CO. ("Bristol's"),** Waterbury, Conn. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Columbia" for All Purposes & Temperatures up to 1,000 Deg. F., and Electric up to 2,900 Deg. F.), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.

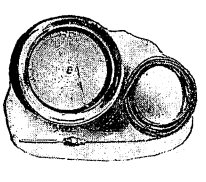
## 12056—Thermometers (Resistance)

Esterline Co. (Inc.) ("Esterline", Recording), Lafayette, Ind.
**LEEDS & NORTHRUP CO., Stenton** av, Gtn., Phila., Pa. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.

## 12057—Thermometers (Shower Bath)

Canton Brass & Machine Co., Canton, O.
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**SCHAEFFER & BUDENBERG MFG.** Co. ("Crescent"), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Taylor Instrument Co.'s ("Tycos"), Rochester, N. Y.


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## 12058—Thermometers (Steam & Hot Water)

(See also Thermometers, Heating)

**BRISTOL CO. ("Bristol's" Recording)**, Waterbury, Conn. (See adv. index & branch offices, end of book)

**INDUSTRIAL INSTRUMENT CO.**, Foxboro, Mass. (See adv. index & branch offices, end of book)

**SCHAEFFER & BUDENBERG MFG.** Co. ("Columbia" Recording), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## 12059—Thermometers (Steel Tube, Mercury Filled)

**SCHAEFFER & BUDENBERG MFG.** Co. ("Reform"), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)

## Thermos Bottles

(See Bottles, Vacuum)

## 12060— Thermostats

(See also Regulators, Heat)

Acton, John, 118 John, Brooklyn, N. Y.
American Electric Fire Alarm & Mfg. Co. (Automatic), Pittsburg, Pa.
American Thermostat Co. ("Marvel"), Elmira, N. Y.
Andrews Heating Co. ("Andrews" Self-Governing), Minneapolis, Minn.
Beers Bros., Rochester, N. Y.
Bunnell, J. H. & Co., 20 Park pl, New York
Crane, Wm. M. Co., 16 W 32d, New York
Edwards & Co., 140th & Exterior, New York
Howard Thermostat Co., Oswego, N. Y.
Johnson Service Co., Milwaukee, Wis.
Kieley & Mueller (For Hot Water Tanks, etc.), 34 W. 13th. New York
National Regulator Co. (For Control of Dampers & Valves in a Heating Apparatus), 540 W Harrison, Chicago, Ill.
Ostrander, W. R. & Co., 22 Dey, New York
Paul, H. M., Battle Creek, Mich.
**QUEEN & CO. (Inc.), 1211 Arch,** Phila., Pa. (See adv. index. end of book)
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Standard Steam Specialty Co. ("Boston" Boiler), 542 W B'way, New York
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York
Weiskopf, Abram, 16 S Clinton, Chicago, Ill.

## 12061—Thickeners (Continuous)

Colorado Iron Works Co. ("Rothwell"), Denver, Colo.
Dorr, John V. M. ("Dorr"), Equitable bldg, Denver, Colo.

## 12062—Thimbles (Chimney)

Seiner, Chas. F., Indianapolis, Ind.
Sterling Fdry. Co. ("The Best"), Sterling, Ill.
Weber-Kirch Mfg. Co., Keokuk, Iowa

## 12063—Thimbles (Fire-Place)

Indianapolis Corrugating Co., Indianapolis, Ind.

## 12064—Thimbles (Floor)

Grabler Mfg. Co., Cleveland, O.

## 12065—Thimbles (Sewing)

Ansonia Novelty Co. (Aluminum, Gold & Silver), Durand & Co., Newark, N. J. Ansonia, Conn.
Emrich, Phil ("Emrich" Tailors' Steel Faced), Cincinnati, O.
Goodyear India Rubber Glove Mfg. Co. (Rubber), 503 B'way, New York
Grote, Fred. & Co., 318 E. 23d, New York
Illinois Pure Aluminum Co. (Aluminum), Lemont, Ill.
Ketcham & McDougall (Gold & Silver), 37 Maiden Lane, New York
Simons Bros. & Co. (Gold & Silver), Phila., Pa.
Sloan & Co. (Inc.) (Gold), 21 Maiden la, New York
Stern Bros. & Co. (Gold & Silver), 68 Nassau, New York
Waite-Thrasher Co., Providence, R. I.
Whiting Co. (Gold & Silver), N. Attleboro, Mass.

## 12066—Thimbles (Stove Pipe)

Advance Mfg. Co., Racine, Wis.
Chapman, Geo. H. ("Logan"), Cedar Rapids, Iowa
Cheney, S. & Son, Manlius, N. Y.
City Forge & Iron Works, Dayton, O.
Deshler Mail Box Co., Deshler, O.
Eclipse Metal Mfg. Co., Buffalo, N. Y.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hemp & Co., St. Louis, Mo.
Hessler, H. E. A., Syracuse, N. Y.
Landers, W. H. Co., Syracuse, N. Y.
Larence-Bostwick Mfg. Co., Phelps, N. Y.
Niagara Metalware Co. ("O. K."), 45 N Division, Buffalo, N. Y.
Ohio Stove Pipe & Mfg. Co. (Adjustable), New Philadelphia, Ohio
Phillips & Buttorff Mfg. Co., Nashville, Tenn.
Rochester Radiator Co., Rochester, N. Y.
Stearns, E. C. & Co. ("McGuire," "Star"), Syracuse, N. Y.
Stuber & Kuck, Peoria, Ill.

## 12067—Thimbles (Wire Rope)

**AMERICAN HOIST & DERRICK CO.**, St. Paul, Minn. (See adv. index & branch offices, end of book)

**AMERICAN STEEL & WIRE CO.**, Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

**BRODERICK & BASCOM ROPE CO.** Steel), 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)

Bronson-Walton Co. (Galvanized), Cleveland, O.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Durable Wire Rope Co., Boston, Mass.
Hazard Mfg. Co., Wilkes-Barre, Pa.
Hubbard & Co., Pittsburg, Pa.
Jackson Mfg. Co. (Wire Rope, Bolt & Axle), Harrisburg, Pa.
Lanz, Matthew & Sons, Pittsburg, Pa.
Laughlin, Thos. Co. (Steel), Portland, Me.

**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)

Macomber-Whyte-Moon Co., 122 Centre, New York

**MACOMBER & WHYTE ROPE CO.**, 507 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)

**ROEBLING'S JOHN A. SONS CO.**, Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)

**TERRY & TENCH CO. (Inc.), Grand** Central Terminal, New York. (See adv. index. end of book)

Trenton Iron Co., Trenton, N. J.

**UNION ELEVATOR & MACHINE CO.**, 215 W Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Western Block Co. (Steel), Lockport, N. Y.
Wilcox, Crittenden & Co. (Also for Manila Rope), Middletown, Conn.
Williamsport Wire Rope Co., Williamsport, Pa.

**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 12068—Third Rail Block System

**WESTINGHOUSE ELECTRIC & MFG.** Co., Westinghouse bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12069—Third Rail System (Electric)

(See also Insulators, Third Rail)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12070— Thorium Nitrate

Lieber, H. & Co. ("Dr. Richard Sthamer's"), 1 Platt, New York
Pfaltz & Bauer ("Swan"), 300 Pearl, New York

## 12071— Thread (Linen)

Linen Thread Co., 96 Franklin, New York

## 12072—Thread (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

Mechanical Fabric Co., Providence, R. I.
Revere Rubber Co., Boston, Mass.

## 12073—Threaders (Wire Rod)

Goodell-Pratt Co. ("Peck's" Can Be Had in Any Vise), Greenfield, Mass.

## 12073a—Threads (Screw)

Jenckes, E. Mfg. Co. (Machine & Wood, Chased, Cut or Rolled, Gimlet Pointed), Worcester, Mass.

## 12074—Thresher Feeders & Blowers

Reeves & Co., Columbus, Ind.

## 12075— Threshers

Advance Thresher Co., Battle Creek, Mich.
Aultman & Taylor Machinery Co., Mansfield, O.
Avery Co. ("Avery"), Peoria, Ill.
Belle City Mfg. Co. ("Belle City"), Racine, Wis.
Bowen & Quick, Auburn, N. Y.
Buffalo Pitts Co., Buffalo, N. Y.
Cardwell Machine Co. (Rice, etc.), Richmond, Va.
Case, J. I., Threshing Machine Co., Racine, Wis.
Champion Thresher Co., Orrville, O.
Connor, J. W. & Son ("Favorite," Thresher & Cleaner), Orangeville, Pa.
Deats, Hiram, Jr. ("Little Wonder"), Pittston, N. J.
Ellis Keystone Agricultural Works, "Ellis-Champion" Thresher & Cleaner), Pottstown, Pa.
Fairbanks Steam Shovel Co., Marion, O.
Farquhar, A. B. Co. (Also Rice), York, Pa.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co. (Also Rice), Richmond, Ind.
Geiser Mfg. Co., Waynesboro, Pa.
Gill, W. E. (Corn & Oats Separators), Lake Geneva, Wis.
Gray's, A. W. Sons, Middletown, Vt.
Harder Mfg. Co., Cobleskill, N. Y.
Harrison Machine Works ("Great Western"), Belleville, Ill.
Heebner & Sons ("Little Giant", "Pennsylvania"), Lansdale, Pa.
Hellman Machine Works, Evansville, Ind.
Huber Mfg. Co., Marion, O.
Hunt, Gilbert Co., Walla Walla, Wash.
Keck-Gonnermann, Mount Vernon, Ind.
Keller Mfg. Co., Sauk Center, Minn.
Kelly, O. S. Mfg. Co., Iowa City, Ia.
Massillon Engine & Thresher Co., Massillon, O.
Messinger Mfg. Co. (Thresher, Separator & Cleaner), Tatamy, Pa.
Minneapolis Threshing Machine Co., Hopkins, Minn.
New Jersey Agricultural Works (Butterworth Bros.), Trenton, N. J.
Nichols & Shepard Co., Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Parlin & Orendorff Co., Canton, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Reeves & Co., Columbus, O.
Robinson & Co., Richmond, Ind.
Rumley, M. Co., Laporte, Ind.
Russell & Co., Massillon, O.
St. Albans Fdry. & Imp. Co., St. Albans, Vt.
St. Johnsville Agric'l Wks., St. Johnsville, N. Y.
Star Mfg. Co. (Corn), Carpentersville, Ill.
Westinghouse Co. (Combined Grain & Clover, etc.), Schenectady, N. Y.
Wood Bros. Thresher Co., Des Moines, Iowa

## 12076—Threshers (Bean & Pea)

Aultman & Taylor Machine Co., Mansfield, O.
Buffalo Pitts Co. (Threshers & Cleaners), Buffalo, N. Y.
Koger Pea & Bean Thresher Co., Morristown, Tenn.
Nancy Hanks Hay Press & Foundry Co. (Pea), Dalton, Ga.

## 12077—Threshers (Corn)

Appleton Mfg. Co., Batavia, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Star Mfg. Co., Carpentersville, Ill.
Whitman Agricultural Co., St. Louis, Mo.

## 12078—Threshers (Rice)

**Aultman & Taylor Mach'y Co.**, Mansfield, O.
**Harrison Machine Works ("Belleville"), Belleville, Ill.**
**Reeves & Co., Columbus, Ind.**
Robinson & Co. ("Money-Maker"), Richmond, Ind.

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## 12079—Threshers (Straw Preserving & Rye)

Eddy, W. Plow Co., Greenwich, N. Y.
Harder Mfg. Co. (Rye Thresher, Cleaner & Binder Combined), Cobleskill, N. Y.
New Jersey Agricultural Works (Butterworth Bros.), Trenton, N. J.
Port Huron Engine & Thresher Co., Port Huron,
Westinghouse Co., Schenectady, N. Y. Mich.

## 12080—Threshers & Cleaners (Peanut)

Ellis Keystone Agricultural Works, Pottstown, Pa.

## 12081—Throttles for Generator Valve

**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

## 12082—Ticket Choppers & Destroyers

(See also Boxes, Ticket Cancelling)

Globe Ticket Co., 112 N 12th, Phila., Pa.
Patten, Paul B., Salem, Mass.

## 12082a—Tickets (Metal Fare)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. (See adv. index, end of book)

## 12083— Tickets (Pin)

Eastern Pin Ticket & Tag Co., Perkasie, Pa.
Steinthal, H. & Co., 28 W 3d, New York
Salisbury Mfg. Co. (Self Fastening, Folding, etc.), Providence, R. I.

## 12084—Tickets & Transfers (Street Railway)

Globe Ticket Co., 112 N 12th, Phila., Pa.
Hamilton Bank Note Engraving & Printing Co., 88 Gold, New York
Keller Printing Co., 722 B'way, New York
Macdonald Ticket & Ticket Box Co., Cleveland,
National Ticket Co., Cleveland, O. Ohio
Ohmer Fare Register Co. (Transfers & Transfer Issuing Machines), Dayton, O.
Reyburn Mfg. Co. (Tickets Only), 22nd & Allegheny av, Phila., Pa.
Security Bank Note Co., 223 Chestnut, Phila.,
Stedman, J. H., Rochester, N. Y. Pa.
Stromberg, Allen & Co., 302 Clark, Chicago, Ill.

## 12085—Tie-Bars (Sub-Switch)

Morden Frog & Crossing Works, Commercial Bank bldg, Chicago, Ill.

## 12086— Ties (Bale)

**ACME STEEL GOODS CO., Archer** av & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Adams Steel & Wire Works, Joliet, Ill.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill.
Carnegie Steel Co. (Steel), Carnegie bldg, Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver, Colo.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
De Haven Mfg. Co., 50 Columbia Hgts, Brooklyn, N. Y.
Des Moines Bale Tie Co. (Hay, Straw & Excelsior), Des Moines, Ia.
Downey, W. C. & Co. (Hay & Straw, Excelsior, etc.), Springfield, O.
Ertel, Geo. Co., Quincy, Ill.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Griswold Co. (Steel), Sterling, Ill.
Griswold Wire Co., Braddock, Pa.
Independent Steel Co. of America, Kenova, W. Va.
Indiana Steel & Wire Co., Muncie, Ind.
Kokomo Bale Tie Co., Kokomo, Ind.
Manhattan Wire Bale Tie Co., 417 E 124th,
Sandwich Mfg. Co., Sandwich, Ill. New York
Western Steel & Wire Co., Kansas City, Kans.
Wilson, H. P. & H. F., 577 10th av, New York
Youngstown Sheet & Tube Co., Youngstown, O.

## 12087—Ties (Cattle & Horse)

Cooper, Otway (Rope), Urbana, O.
Coverts Saddlery Works, Interlaken, N. Y.
Frick, J. E. Co. ("Emory Brand"), Phila., Pa.
Newton, E. C. Co., Batavia, Ill.

## 12088—Ties (Concrete Steel, Railroad)

Kerlin Automatic Post Machine Co. ("Kerlin", Concrete Lineal), Delphi, Ind.
Whitehead, Jas., Farmington, Ill.

## 12089— Ties (Cotton)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlanta Steel Co. (Steel), Atlanta, Ga.
Carnegie Steel Co. (Steel), Carnegie bldg, Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver, Col.
Conners-Weyman Steel Co., Birmingham, Ala.
Heierman, Frank & Bro., Austin, Tex.
Pittsburg Steel Co., Pittsburg, Pa.
Sharon Steel Hoop Co., Sharon, Pa.

## 12090— Ties (Cow Tail)

Carroll Muzzle Co., Carroll, Ia.

## Ties (Creosoted)

(See Creosoting Works)

## 12091— Ties (Mine)

Fairmont Mining Machinery Co. ("Ross" Steel), Fairmont, W. Va.

## 12092—Ties, Poles & Posts

(See also Poles, Iron & Steel Trolley; also Lumber Manufacturers)

### ALABAMA.

CARNEY—Carney, J. A. (Ties)
COFFEE SPRINGS—Harris, L. E.
DOTHAN—Wilson, W. S. (Cross Ties)
FABIUS—Hauser & Wheeler (Cross Ties)
HUNTSVILLE—Meredith, J. P. Cedar Co. (Piling & Poles)

### ARKANSAS.

CROSSETT—Crossett Lumber Co.
PARAGOULD—Bertig Bros. (Ties)

### CALIFORNIA.

SAN FRANCISCO—Albion Lumber Co. (Ties), Crocker bldg
Byxbee & Clark, Balboa bldg
Caspar Lumber Co. (Ties), Kohl bldg
Hanify, J. R. & Co. (Ties), 24 Market
Hooper, C. A. & Co. (Ties), Balboa bldg
Nelson, Chas. Co., 112 Market
Pacific Lumber Co. (Inc.) (Ties, etc.), California & Drum
Pope & Talbot (Piles, Spars, etc.)
Richardson Co., 42 Market
Union Lumber Co. (Poles & Ties), Crocker bldg
White, L. E. Lumber Co. (Ties, etc.), Balboa bldg
Wood, E. K. Lumber Co., 5th & Channel

### COLORADO.

DENVER—Western Lumber & Pole Co. (Red Cedar & White Cedar Poles)

### DELAWARE.

MILTON—Conwell & Co. (Pine & Oak Piling, Mine Timbers, R. R. Ties, etc.)

### FLORIDA.

JACKSONVILLE—Hunter, Dexter (Ties)

### GEORGIA.

BINGHAM—Dorminey, Kirkland & Co.
BRUNSWICK—Aiken, Frank D. (Mfrs. Agt., Emanuel, N. & Co. (Ties) (Ties)
CORDELE—Scandrett, G. L. (Cross Ties)
CUTTING—Georgia Lumber & Turpentine Co.
FACEVILLE—Rogers, J. T. (Cross Ties)
DARIEN—Hilton & Dodge Lbr. Co.
SAVANNAH—Baxter, G. S. & Co. (Cross Ties)
Cooney, Eckstein & Co. (Cross Ties)
Craig, G. F., & Co. (Cross Ties)
Dixon Lumber Co., Liberty c Wheaton
Emanuel, N., & Co. (Cross Ties)
Granger & Lewis (Cross Ties)
Heard Lumber Co.
Hirsch Lumber Co. (R. R. Ties, etc.)
Southern Pine Co. (of Ga.) (Ties, etc.)
THOMASVILLE—Watt, Jas. Bro. & Co. (Ties)

### IDAHO.

CLARKS FORK—Pend Orielle Co. (Cedar Telephone Poles)
COEUR D'ALENE—Wright, M. D. (Cross Ties)
HAYDEN LAKE—Wright, M. D. (Ties Only)
SAND POINT—Humbird Lumber Co. (Ltd.) (Red Cedar Poles)
Sand Point Lumber & Pole Co. (Red Cedar Posts, Poles, Piling, etc.)

### ILLINOIS.

CHICAGO—Ayer & Lord Tie Co. (R. R. Ties), Railway Exch bldg
Beidler, Francis & Co. (Idaho Cedar & Michigan White Cedar Poles, 40 ft. & up), 115 Adams
Benton, Geo. P. Co. (Cedar Poles), Old Colony bldg
Chicago Car Lumber Co. (R. R. Ties), Pullman bldg, 6 Adams
Deeves, G. H. Lumber Co. (Ties), R'y Exch
Fowler, Jno. H. & Co. (Cedar Ties, Poles, etc.), 279 Dearborn
Gillis & Co. (Ties, Poles & Posts), 204 Dearborn
Kellogg Switchboard & Supply Co. (White Cedar Poles, etc.), W Congress c Green
Lake Superior Piling Co. (Poles, Posts & Piling), S. Morgan & W. 22d
Lindsley Bros. Co. (Idaho Cedar & Michigan White Cedar Poles), 98 Jackson
Lowe, Perley & Co. (Cedar Poles), Ry. Ex.
Marsh & Bingham Co. (Ties), Old Colony Bldg.
Naugle Pole & Tie Co. (Ties, Poles & Posts), 226 La Salle
Raber, P. W. (Cedar Ties, Poles & Posts), Old Colony bldg
Ripley, Wm., & Son (Ties), 36 Lasalle
Schultz Bros. & Cowen (Ties, Poles & Posts), Old Colony bldg
Stone, Frank B. (Ties, Poles & Posts), 9 Jackson boul
Valentine-Clark Co. (Cedar Poles, Telegraph Poles, Railroad Ties, etc.), McCormick bldg
Worcester, C. H. Co., 143 Dearborn
McLEANSBORO—Wilson, Jno. H. (Ties)

### INDIANA.

RICHMOND—Johnson, B., & Son (R. R. Ties, Piles, etc.)

### IOWA.

DAVENPORT—Kennett Cypress & Hardwood Lbr. Co. (Cypress Poles & Piling)
DES MOINES—Deal, L. K. Lumber Co. (White Cedar Telephone Poles)

### KENTUCKY.

LOUISVILLE—Hughes, W. J. & Sons Co.
Ohio Valley Tie Co. (R. R. Ties)
PADUCAH — Paducah Pole & Timber Co. (Chestnut Poles)
PANOLA—Madison-Jackson-Estill Lumber & Development Co. (Cross-Ties, Fence Posts, Telephone Poles)

### LOUISIANA.

DONNER—Dibert, Stark & Brown Cypress Co.
NEW ORLEANS—American Creosote Works (Creosoted Ties & Poles)
SLIDELL—Slidell Brick & Lmbr. Co. (Henso & Foundation Piling)

### MAINE.

PORTLAND — Berlin Mills Co. (Kyanized Spruce)

### MARYLAND.

BALTIMORE—Charshee, Thos. A. & Bro.
Culpepper & Co. (Pine & White Oak Piles, Ties, Poles, etc.)
Grube, Herman L. (Ties, Poles, Posts, Piling, Mine Props, Heavy Timber, etc.), Baltimore & South
Hoskins, J. S. Lumber Co. (Tees, Poles, Posts & Pine & Oak Piling)
BRANDYWINE—Robinson, A. T. (Ties)

### MASSACHUSETTS.

BOSTON—Stearns, A. T. Lumber Co. (Flag, Clothes, etc.)

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## MICHIGAN.

AU SABLE—Loud's, H. M. Sons Co. (Ties)
BAY CITY—Michigan Pipe Co. (Ties, Poles & Posts, Creosoted)
BOYNE CITY—White, Wm. H. & Co. (Cedar Ties & Posts)
DAGGETT—Perrizo & Sons (Poles & Posts)
DETROIT — Brownlee Kelly Co. (Poles & Posts), Telegraph bldg
Detroit Cedar & Lumber Co., Chamber of Commerce bldg
Detroit Lumber Co., 1311 Gratiot av
Grace Harbor Lumber Co. (Ties, Poles and Posts), ft of McKinstry av
ESCANABA—Erickson & Bissell (Cedar Ties, Poles, Posts & Tiling)
National Pole Co. (Red & White Cedar Poles)
GRAND RAPIDS—Dregge, Groover Lumber Co.
Union City Lumber Co.
Warner-Newton Lbr. Co. (Cedar Ties, oles
HARDWOOD—Anderson, P. J. & Posts)
HERMANSVILLE—Wisconsin Land & Lumber Co. (Cedar Ties, Poles & Posts)
HONOR—Guelph Patent Cask Co. (Ties)
INGALLS—Carley, Ira
MANISTIQUE—White-Marble Lime Co. (Hemlock, Cedar & Tamarack Ties & Cedar Poles & Posts)
MENOMINEE—Craford Cedar Co. (Cedar Telephone Poles)
Girard Lumber Co. (Ties, Poles & Posts)
Huebel, C. J., Co. (Idaho Cedar & Michigan White Cedar Poles 40 ft. & up)
MONROE—Sterling, W. C. & Son (Ties, Electric Light Poles, etc.)
NEWHALL—National Pole Co. (Whol Cedar Prods)
ONAWAY—Lobdell & Churchill Mfg. Co. (Ties, Poles & Posts)
OSCODA—Loud's, H. M. Sons Co. (Poles & Posts)
RAPID RIVER—Madden, Jerry Shingle Co.
SAGINAW—Porter Cedar Co. (Poles & Posts, Cedar)
ST. IGNACE—Connor & Bissell (Cedar Ties, Telegraph Poles, etc.)
WELLS—Ford River Lumber Co. (Ties, Poles & Posts)

## MINNESOTA.

CLOQUET—Cloquet Tie & Post Co.
DULUTH—Bradley Timber & Ry. Supply Co. (Telephone Poles)
Duluth Log Co. (White Cedar Poles, Ties & Posts)
Lake Superior Piling Co. (Poles & Posts), Torrey bldg
Martin Bros. (Ties, Cedar Poles, etc.)
National Pole Co. (Ties, Poles & Posts)
Zenith Cedar Co. (Cedar Ties, Poles & Posts)
MINNEAPOLIS — Backus-Judd Lumber & Cooperage Co. (White Cedar Poles), Lumber Exchange bldg
Bell Lumber Co. (White Cedar Telephone Poles)
Coolidge, Schussler Co. (Ties, Telegraph & Telephone Poles), Guaranty bldg
Kaye & Carter (Cedar Poles, Ties & Posts)
Kettle River Co. (Ties, Piling, Bridge Timbers, etc.)
Krueger, A. L. Lbr. Co. (Cedar Poles)
McCullough & Moss Lumber Co. (White Cedar Poles, Ties & Piling)
Minneapolis Cedar & Lumber Co., Lumber Exch.
Morrison, J. W. Lumber Co. (White Cedar Poles)
Page & Hill Co. (Cedar Poles & Posts)
Valentine-Clark Co.

## MISSISSIPPI.

GULFPORT—Naylor, S. E. Co. (R. R. Ties)

## MISSOURI.

CABOOL—Grant, Davis Lumber Co. (Posts, etc.)
CAMPBELL—S. E. Missouri Cypress Co.
KANSAS CITY—Sedgwick Tie Co. (Ties, Poles, etc.), Beals bldg
MONTGOMERY CITY—Ferguson, James (R. R. Ties)
ST. LOUIS—Abeles & Taussig (White Oak Ties & Cypress Poles), Commercial bldg
Bagnell Timber Co. (Ties), 706 Chestnut
Berthold & Jennings Lumber Co. (Piling Telegraph Poles, etc.), 207 N 8th
Chicago Lumber & Coal Co. (Poles & Posts)
Hearne Timber Co. (White & Red Oak Ties, Cypress Poles & Piling), 122 N 7th
Moss, T. J. Tie Co. (Oak, Cypress & Chestnut Ties & Cypress Trolley Poles), 319 N 4th
Western Tie & Timber Co. (Ties), Century bldg
SPRINGFIELD—Hobart-Lee Tie Co. (Railroad Ties & Lumber)

## NEW HAMPSHIRE.

MILFORD—Peirce, W. E. & Co. (Ties, Poles & Posts)

## NEW JERSEY.

CAMDEN—Baird, David & Co. (Poles & Posts, Trolley, etc.)
ERMA—Hand, Robt. E. (Ties, Posts & Piling)
FLEMINGTON—Broadhead, J. E. (Cross Ties Only)

## NEW YORK.

ALBANY—Hunter, Dexter (Ties), Water & Lawrence
BUFFALO—Curtiss, W. L. (Ties), Prudential
Elias, G. & Bro., 965 Elk bldg
Jackson & Tindale (Cedar Ties, Poles & Posts)
Wheeler-Holden Co., Erie Co., Bank bldg
NEW YORK—American Tie & Timber Co., 11 B'way
Baxter, G. S. & Co. (Yellow Pine & Cypress Ties), 17 William
Cheseboro, Whitman Co. (Flag & Clothes Poles), 1167 1st av
Cooney, Eckstein & Co. (R. R. Ties), 66 Broad
Corbett & Co., 429 E 109th
Florida Tie & Lbr. Co. (Yellow Pine Ties, Poles, etc.), 50 Church
Roper, John L. Lumber Co. (Ties), 18 B'way
Southern Exchange Co. (Southern White Cedar Poles), 97 Warren
Vanderbilt, Edw. W. (Ties), 126 Liberty
Wyckoff Pipe & Creosoting Co. (Creosoted Ties & Poles), 50 Church
OLEAN—McEachern, John (Cross Ties Only)
OSWEGO—Farwell, J. B. & Son (Cedar Poles)
WAVERLY—Baldwin, H. J. & Son (Ties)

## OHIO.

BAINBRIDGE—Baker, G. W. (Cross Ties)
BUENA VISTA—McCormick, W. T. (Cross Ties)
BYER—Stevenson Bros. (Ties & Poles)
CINCINNATI—Doran & Co., Bell blk
Doran & Co., Bell blk
Farrin-Korn Lumber Co. (Oak R. R. Ties, Posts, etc.), Winton pl
CLEVELAND—Advance Lumber Co., Rockefeller bldg
COLUMBUS—Dodson, E. (Ties & Piling)
IRONTON—Ironton Cross Tie Co. (Ties)
SCIOTOVILLE—Eckhart & Kent (Cross Ties)
TOLEDO—Bissell, F. Co. (Cedar, Chestnut & Cypress Poles & Wood Posts)

## OREGON.

PORTLAND—Broughton & Wiggins Co., 92 1st

## PENNSYLVANIA.

LANCASTER—Kalbach, A. M.
PHILADELPHIA—Hallowell, E. B. & Co. (Ties, Poles & Posts), Harrison bldg
Howard Supply Co. (Ties), Witherspoon bldg
Kirby & Hawkins Co. (Ties), Arcade bldg
Roper, Jno L. Lumber Co. (Ties), Franklin Bank bldg
Union Railway Supply Co. (Electric Railway Ties & Poles), Real Estate Trust Co. bldg
PITTSBURG—Enos, W. B. & Co. (Ties), Allegheny av
Gillespie, D. L. & Co. (Ties), 541 Wood
Mead & Speer Co. (Ties), Park bldg
Thompson, Dwight (Cross Ties), House bldg
ROCKWOOD—Wolf, Penrose (Ties)
THOMPSONTOWN—Thompson, Theo. S. (Estate of) (Ties)
TIONESTA—Forman, H. M. (Ties)
Kiffer, F. E. (Cross Ties)

## SOUTH CAROLINA.

ALCOLU—Alrerman, D. W. & Sons Co. (Octagonal or Square Poles)
CHARLESTON—Anderson Lumber Co. (Ties)
MAYESVILLE—Bland, Jas. F. (Cross Ties)

## TENNESSEE.

NASHVILLE—Ransom, Jno. B. & Co. (Red Cedar Posts & Poles)

## TEXAS.

BEAUMONT—Keith Lumber Co. (Ties)
Nona Mills Co. (Ties)
GALVESTON—Heiskell, Jas. M. (R. R. Ties)
Miller & Vidor Lumber Co.
HOUSTON—Bender, C. & Sons (Ties & Bridge Timbers)
Burkitt & Barnes (Ties & Timbers)
Carter Lumber Co. (Ties, etc.)
Houston & Liggett (Red Cedar Telephone Poles & Fence Posts)
Kirby Lumber Co. (Ties, etc.)
Sigler, Grey (Piling, Lumber, etc.)

## VIRGINIA.

NORFOLK—Roper, Jno. L. Lumber Co. (Ties), 3 Division
PORTSMOUTH—Wyckoff Pipe & Creosoting Co. (Creosoted Ties & Poles)
RICHMOND—Conquest, Pleasanton L. (Ties), 1001 E Main
Johnson & Briggs (Ties), 819 E Main
TALLEYSVILLE—Richardson, R. E. (Ties)

## WASHINGTON.

CENTRALIA—Central Lumber Co. (Piling, Posts & Poles)
EVERETT—National Pole Co. (Red & White Cedar Poles)
PORT BLAKELEY—Port Blakeley Mill Co. (Ties)
PORT LUDLOW—Puget Mill Co. (Poles & Telegraph & Telephone Poles)
SEATTLE—Folsom, F. H. (Ties, Poles, etc.), Colman Dock
Northwest Lumber Co. (Spars, Piles & Telegraph Poles)
Pacific Fir Co. (Ties), D. Horton B'k bldg
SPOKANE—Churchill Cedar Co.
Lindsley Bros. Co. (Cedar Poles)
Pacific Coast Pole Co.
TACOMA—St. Pall & Tacoma Lumber Co. (Piling & Poles), Tacoma, Wash.
Tacoma Mill Co. (Piles & Telephone Poles)

## WEST VIRGINIA.

CHARLESTON—Courtney, D. G. (R. R. Ties)
HUNTINGTON—Howard Supply Co. (Ties)
RICHMOND—Cherry River Boom & Lumber Co. (Telephone Poles, etc.)

## WISCONSIN.

CLINTONVILLE—Torrey Cedar Co. (Poles & Posts)
DUNBAR—Girard Lumber Co. (Ties, Poles & Posts)
GREEN BAY—Valentine-Clark Co. (Cedar Ties, Poles, etc.)
MARINETTE—Worcester, C. H. Co. (Cedar Wright Bros. Poles)
MARSHFIELD—Connor, R. Co. (Cedar Poles & Posts)
MILWAUKEE—Cooper & W. E. Lumber Co. (Cedar Poles & Posts)
TOMAHAWK—Hall Brooks Co. (Cedar Telephone Poles)
WAUSAUKEE—Bird & Wells Lumber Co. (Cedar Ties, Poles & Posts)
WITTENBERG — Glaubitz, R. B. (Posts & Poles)
Wittenberg Cedar Co. (Cedar Poles)

## 12093—Ties (Reinforced Concrete)

Blessing, Louis, Jackson, Mich.
Continental Portland Cement Co., St. Louis, Mo.

## 12094— Ties (Steel)

Fairmount Mining Machinery Co. (For Mines), Fairmount, W. Va.
Universal Metallic Tie Co., Salt Lake City, Utah
Valley Forging Co. Verona, Pa.

## 12095—Ties (Steel Railroad)

American Railway Steel Tie Co., Harrisburg, Pa.
Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Goldie, Wm., Wilkinsburg Station, Pittsburg, Pa.
Jones & Laughlin Steel Co. ("McCune"), Pittsburg, Pa.

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**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

**RAILROAD SPECIALISTS FOR ALL INDUSTRIES. ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12096– Ties (Veneer)
(See Ties, Wall)

## 12097– Ties (Wall)
**AMERICAN ROLLING MILL CO.** ("Miami," "Bull Dog" & "Veneer"), Middletown, O. (See adv. index & branch offices, end of book)
**BURTON, W. J. CO. (Brick & Cement)**, 161 W. Congress, Detroit, Mich. (See adv. index, end of book)
Bushnell Tank Works, Bushnell, Ill.
Cargill Mfg. Co. ("International"), Buttles av, Columbus, O.
Central Iron Works, Des Moines, Ia.
Church Appliance Mfg. Co. ("Excelsior" Wire, "Umpire" Sheet Steel), La Salle, Ill.
**CLASON ARCHITECTURAL METAL** Works, 428 Kinsley av, Providence, R. I. (See adv. index, end of book)
Dowman-Dozier Mfg. Co., Atlanta, Ga.
Duplex Hanger Co., Cleveland, O.
Galesburg Cornice Works, Galesburg, Ill.
**GENERAL FIREPROOFING CO.** ("Double Crimp"), Youngstown, O. (See adv. index & branch offices, end of book)
Hamblin & Russell Mfg. Co. ("Standard" Perforated Steel), Worcester, Mass.
Harry, O. K. Steel Works, Dallas, Texas
Hunt Metal Corner Co. ("Bull Dog," "Twin Wire," & "Never Split,"), Westboro, Mass.
Hurd & Haggin ("New Yorker"), 316 Hudson, New York
Levering, O. D. ("Hercules"), Columbus, O.
McDowell Mfg. Co. ("Pittsburg" Steel), Pittsburg, Pa.
McGill Mfg. Co. ("Crescent"), Valparaiso, Ind.
**MERRITT & CO. (Expanded Metal)**, 93 Arch, Camden, N. J. (See adv. index, end of book)
Merwin Mfg. Co. ("Herringbone" Galvanized), Erie, Pa.
Minnesota Tank Co., Minneapolis, Minn.
**NIAGARA FALLS METAL STAMPING** Works ("Niagara," also Veneer Ties, 12 in. Galvanized for Concrete Block Walls), Niagara Falls, N. Y. (See adv. index, end of book)
Page Woven Wire Fence Co. ("Page"), Adrian, Mich.
Patterson Coal & Supply Co. ("Leader," "Acme"), N S, Pittsburg, Pa.
Peters, Jas. & Son (Steel), 1934 N Front, Phila., Pa.
Prescott, J. B. & Son ("Morse" Ties & Bonds), Webster, Mass.
**RIESECK, P. (Wrought Steel)**, Allegheny av & Rebecca, N S, Pittsburg, Pa. (See adv. index, end of book)
**ST. PAUL ROOFING, CORNICE & ORNAMENT** Co. ("St. Paul" Brick Bonds), St. Paul, Minn. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON WORKS**, 100 Lake, Chicago, Ill. (See adv. index, end of book)
Souther, E. E. Iron Co. (Galvanized), St. Louis, Mo.
Taft's Eagle Claw Wall Tie Co. ("Taft's Eagle"), Topeka, Kan.
Union Building Material Co. ("Union"), 3 Old B'way, New York
Union Specialty Co. ("Union"), Arrot Power bldg, Pittsburg, Pa.
Willis Mfg. Co., Galeburg, Ill.
Wire Specialty Works (Wire), 551 Fulton, Chicago, Ill.
**WRIGHT WIRE CO. ("Clinch")**, Worcester, Mass. (See adv. index & branch offices, end of book)

## 12097a–Ties (Wall for Concrete Forms)
Andrews Wire & Iron Works ("Androck"), Rockford, Ill.

## 12098–Tile (Art & Decorative)
(See also Tile, Encaustic Floor)
Alhambra Tile Co., Newport, Ky.
American Encaustic Tiling Co., Zanesville, O.
Architectural Tile & Faience Co., Maurer, N. J.
Beaver Falls Art Tile Co., Beaver Falls, Pa.
Cambridge Tile Mfg. Co., Covington, Ky.
Grueby Faience & Tile Co., Boston, Mass.
**JACKSON, EDWIN A. & BRO. (Dealers in All Kinds)**, 50 Beekman, New York. (See adv. index, end of book)
**JACKSON, WM. H. COMPANY (Dealers in** All Kinds of Art & Decorative Tiles), 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)
Keyport Tile Co., Keyport, N. J.
Lage (Mrs.), Bernhard H., 484 Greenwich, New York. Factory, Menlopark, N. J.
Mosaic Tile Co. (Ceramic, Enameled & Glazed), Zanesville, O., & 109 W 26th, New York
Matawan Tile Co., Matawan, N. J.
National Tile Co., Anderson, Ind.
New Brunswick Tile Co., New Brunswick, N. J.
Old Bridge Enameled Brick & Tile Co., Old Bridge, N. J.
Pardee, C. Works, Perth Amboy, N. J.
Providential Tile Co., Trenton, N. J.
Robertson Art Tile Co., Morrisville, Pa.
Star Encaustic Tile Co., Pittsburg, Pa.
Trent Tile Co., Trenton, N. J.
U. S. Encaustic Tile Co., Indianapolis, Ind.

## 12099–Tile (Bake Oven)
La Clede-Christy Clay Products Co., St. Louis, Mo.
**MAURER, HENRY & SON, 420 E. 23d, N.** Y.; Penna. bldg, Phila., Pa. Works: Maurer, N. J. (See adv. Front Inside Cover)
Presbrey Stove Lining Co., Taunton, Mass.
St. Louis Vitrified & Fire Brick Co., St. Louis, Mo.

## 12100–Tile (Cement Floor)
Abingdon Cement Tile Works, Abingdon, Ill.
National Mosaic Flooring Co., Mobile, Ala.

## 12101– Tile (Cork)
Armstrong Cork Co., Pittsburg, Pa.
Nonpareil Cork Works, 50 Church, New York

## 12102– Tile (Drain)
Aiken Fire & Ornamental Brick, Co., Aiken, S. C.
Akron Vitrified Clay Mfg. Co., Akron, O.
Allen, Geo., Jeffersonville, O.
American Brick & Tile Co., Mason City, Ia.
American Clay Mfg. Co., Akron, O.
American Sewer Pipe Co., Akron, O.
Argillo Works, Rock Island, Ill.
Beaverton Clay Mfg. Co., Beaverton, Ore.
Bennett, M., Sidney, O.
Bennett, W. F. & Co., Galena, O.
Blanchester Brick & Tile Works, Blanchester, Ohio
Brandt Clay Product Co., Binghamton, N. Y. Works: Brandt, Pa.
Brown Brick & Tile Co., Houston, Tex.
Butte Sewer Pipe & Tile Co., Butte, Mont.
Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.
Clark, N. & Sons, 116 Natoma, San Francisco, Cal., & Alameda, Cal.
Clarke & Leacock, Keota, Ia.
Clearfield Clay Working Co., Clearfield, Pa.
Cooper, Jno., 496 Oakland, Brooklyn, N. Y.
Dawson Brick & Tile Co., Springfield, Ill.
Dee, Wm. S. Clay Mfg. Co., 108 La Salle, Chicago, Ill. Works: Mecca, Ind.
Delaware Clay Mfg. Co., Delaware, O.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
Diefethaler Co., Millbury, O.
Dorney & Harris, Finlay, O.
Duffy, J. P. Co., 440 E. 138th, New York
Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
Everal, J. W., Westerville, O.
First Av Brick & Tile Co., Evansville, Ind.
Fox, E. P., Sheffield, Ia.
Gerhard, Frank J., 110 Belmont av., Newark, N. J.
Goodell, Adison Tile W'ks, Loda, Ill.
Goodwin Tile & Brick Co., Grand Junction, Ia.
Gulf States Brick Co. (Farm), Beaumont, Tex.
Hickory Run Brick Co., Allentown, Pa.
Hillsboro Brick & Tile Co., Hillsboro, Ill.
Iowa Pipe & Tile Co., Des Moines, Ia.
Jackson, John H., Albany, N. Y.
Joliet Mound Drain Tile Co., Joliet, Ill.
Kankakee Tile & Brick Co., Kankakee, Ill.
Lancaster Brick & Tile Co., Builders' Exch, Buffalo, N. Y.
Lee, M. J. Drain Tile Co. (4 to 30 Inches), Colfax, Ind.
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Ia.
Little Falls Fire Clay Co., Tacoma, Wash. Works, Little Falls, Wash.
McCord, Seely, Benton Harbor, Mich.
Martin & Von Owen
Mason City Brick & Tile Co., Mason City, Ia.
Mason City Clay Works, Mason City, Ia.
Mason, F. H. & Son, Monroeville, O.
Mishler Bros., Ravenna, O.
Mitchell & Moore, Newberg, Ore.
Monmouth Mining & Mfg. Co., Monmouth, Ill.
National Drain Tile Co., Streator, Ill.
National Drain Tile Co., Terra Haute, Ind.
National Terra Cotta Works, 316 13th, N. W., Washington, D. C.
New York Pottery Co., 949 B'way, New York
Northwestern Clay Co., New Windsor, Ill.
Oconee Brick & Tile Co., Milledgeville, Ga.
Ohio Brick & Tile Works, Ottawa, O.
Onondaga Vitrified Brick Co., Syracuse, N. Y.
Pacific Clay Mfg. Co., Los Angeles, Cal.
Peck, Richard, East Bethany, N. Y.
Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
Pomona Terra Cotta Co., Pomona, N. C.
Prane, F. J., Shiloh, O.
Purcell, Geo. W., Union, O.
Richeson & Nelson, Greenville, O.
Robinson Clay Product Co., Akron, O.
Rochester Brick & Tile Mfg. Co., Powers blk, Rochester, N. Y.
Rochester Sewer Pipe Co., Rochester, N. Y.
Rocketts Brick & Tile Co., Richmond, Va.
St. Clair Tile Co., Eaton, O.
San Antonio Sewer & Pipe Mfg. Co.
Shaw, C. E., Iowa Falls, Ia.
Southern Brick & Tile Co., Louisville, Ky.
Standard Sewer Pipe Co., Rochester, N. Y.
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
Stevens', H. Sons Co., Macon, Ga.
Streator Clay Mfg. Co., Streator, Ill.
Summitville Drain Tile Co., Summitville, Ind.
Swift Terra Cotta Brick & Tile Co., Ottawa, Ill.
Terrell & Son, Newberg, Ore.
Troy Fireproofing Co., Troy, N. Y.
Union Sewer Pipe Co., McKeesport, Pa.
Utica Brick & Tile Co., Utica, N. Y.
Vigo Brick & Tile Co., Vigo, O.
Vigo Clay Co., Terre Haute, Ind.
Whipple & Hull, Leonardsbury, O.
White, S. C., Lapel, Ind.
Williams, N. A. Co., Chamber of Commerce bldg, Chicago, Ill.

## 12103– Tile (Effectile)
American Metal Stamping Co. (Porcelain Enameled on White Metal), 20 E Herman, Phila., Pa.

## 12104– Tile (Enameled)
American Encaustic Tiling Co., Zanesville, O.
Beaver Falls Art Tile Co., Beaver Falls, Pa.
Cambridge Tile Mfg. Co., Covington, Ky.
Mosaic Tile Co., Zanesville, O.
Old Bridge Enameled Brick & Tile Co., Old Bridge, N. J.
Providential Tile Co., Trenton, N. J.
Tiffany Enameled Brick Co., Momence, Ill.

## 12105–Tile (Enameled Metal)
American Locktile Co., Alexandria, Va.
American Metal Stamping Co. ("Effectile" is an Enameled Sheet Zinc, an Imitation of Clay Tile), 20 E Herman, Gt., Phila., Pa.
New York Metal Ceiling Co., 537 W 24th, New York
Sanitary Metal Tile Co. (For Walls & Ceilings), 137 Duffield, Brooklyn, N. Y.
Stengel Bros. Co. ("Metile"), Pittsburg, Pa.

## 12106–Tile (Encaustic Floor)
American Encaustic Tiling Co., Zanesville, O.
Art Mosaic & Tile Co., Toledo, O.
Cambridge Tile Mfg. Co., Covington, Ky.
Mosaic Tile Co., Zanesville, O.
National Tile Co., Anderson, Ind.
Robertson Art Tile Co., Morrisville, Pa.
Star Encaustic Tile Co., Pittsburg, Pa.
U. S. Encaustic Tile Works, Indianapolis, Ind.

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## 12107—Tile (Floor or Porch)

Corry Brick & Tile Co. (Vitrified Red), Corry, Pa.
New York Press Brick Co. (Vitrified Red Shale), Rochester, N. Y.
Oconee Brick & Tile Co., Milledgeville, Ga.
Rochester Sewer Pipe Co. (Unglazed Vitrified Red), Rochester, N. Y.

## 12108— Tile (Glass)

Federal Tile Co. (Wall), 131 W 24th, New York
Opalite Tile Co. ("Cosmos," "Opalite"), Monaca, Pa.

## 12108a—Tile (Green House)

**MAURER, HENRY & SON, 420 E.** 23d, New York, & Penna bldg, Phila., Pa. Works, Maurer, N. J. (See adv. front inside cover)

## 12109—Tile (Hydraulic Mosaics)

Raventos Tile Co., Pacific bldg, San Francisco, Cal.

## 12109a—Tile (Illuminating Wholesale Mfrs.)

**RODEFER GLASS CO., Bellaire, O.** (See adv. index, end of book)

## 12110—Tile (Imitation Wall)

**BERGER MFG. CO., Canton, O.** (See adv. index & branch offices, end of book)

## 12111— Tile Importers

Mart & Lawton (Milton Holling & Co.'s English Crazed Tile), 1123 B'way, New York

## 12112—Tile ("Moravian")

Moravian Pottery & Tile Works (Glazed & Unglazed, in Various Colors), Doylestown, Pa.

## 12113—Tile (Mosaic Ceramic Floor)

American Encaustic Tiling Co., Zanesville, O.
Art Mosaic & Tile Co., Toledo, O.
Bortoli Mosaic & Tile Co., Dallas, Texas
Cambridge Tile Mfg. Co., Covington, Ky.
Illinois Mosaic Tile Co., 36th & Ashland av, Chicago, Ill.
Lage (Mrs.), Bernhard H., 484 Greenwich, New York. Factory, Menlopark, N. J.
Lage, Otto C., 192 E 76th, New York
Matawan Tile Co., Matawan, N. J.
Mosaic Tile Co., Zanesville, O.
National Mosaic Flooring Co., Mobile, Ala.
National Tile Co., Anderson, Ind.
Robertson Art Tile Co., Morrisville, Pa.
Trent Tile Co. (Vitrified & Glazed), Trenton, N. J.
United States Encaustic Tile Co., Indianapolis, Ind.

## 12114—Tile (Non-absorbent Floor)

American Eucaustic Tiling Co., 1123 B'way, New York, & Zanesville, O.
Cambridge Tile Mfg. Co., Covington, Ky.
Trent Tile Co., Trenton, N. J.

## 12115—Tile (Pottery Kiln)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg. Phila., Pa.; Works: Maurer, N. J. (See adv. index, end of book)

## 12115a—Tile (Promenade)

**LUDOWICI-CELADON CO. ("Ludowici-Celadon"),** Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 12116— Tile (Quarry)

Rochester Sewer Pipe Co. (Unglazed for Floors, Walls, etc.), Rochester, N. Y.

## 12116a—Tile (Recuperator Flue)

**HARBISON-WALKER REFRACTORies** Co., Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Tile (Roofing)

(See Roofing Tile, Various Kinds)

## 12117— Tile (Rubber)

(See also Mats & Matting, Rubber)
American Hard Rubber Co. (Interlocking), 9 Mercer, New York
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works (Interlocking), Erie, Pa.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO. (Interlocking),** Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co. (Interlocking), Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., Passaic, N. J.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Mercer Rubber Co. ("Anchor"), Trenton, N. J.
New York Belting & Packing Co. (Ltd.) (Interlocking), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO.,** ("Pennsylvania" Interlocking), Jeannette, Pa. (See adv. index & branch offices, end of book)
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 12118— Tile (Sidewalks)

(See also Brick Manufacturers, Vitrified Paving)
Hocking Valley Fire Clay Co., Nelsonville, O.
Mason City Brick & Tile Co. (Vitrified), Mason City, Ia.
Nelsonville Brick Co., Nelsonvillie, Ohio
Soisson, Jos. Fire Brick Co., Connellsville, Pa.
Wabash Clay Co., Veedersburg, Ind.

## Tile (Slate)

(See Slate Floor Tile)

## 12119—Tile (Terra Vitrea)

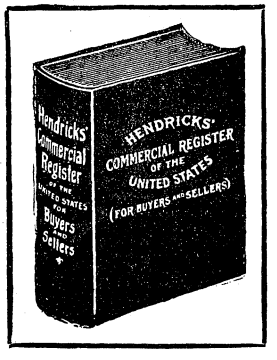
American Encaustic Tiling Co., Zanesville, O.
Hartford Faience Co., Hartford, Conn
Providential Tile Co., Trenton, N. J.

## 12120—Tile (Vitreous Floor)

**AKRON ROOFING TILE CO. (Quarries),** Akron, O. (See adv. index & branch offices, end of book)
Alexander & Reed Co., 127 E 23d, New York
Alhambra Tile Co., Newport, Ky.
American Encaustic Tiling Co., 1123 B'way, New York, & Zanesville, O.
Brooklyn Vitrified Tile Works, 79 4th, Brooklyn, N. Y.
Cambridge Tile Mfg. Co., Covington, Ky.
Fleming & Co. (Red, Buff & Black Quarries), 253 B'way, New York
**Lage (Mrs.), Bernhard H., 484 Greenwich,** New York. Factory, Menlopark, N. J.
Lage, Otto C., 192 E 16th, New York
Mosaic Tile Co. (also Semi-Vitreous or Ecaustic), Zanesville, O.
Perth Amboy Tile & Ceramic Co., Perth Amboy, N. J.
Robertson Art Tile Co., Morrisville, Pa.
Rossman, Robert, 149 W 24th, New York
Trent Tile Co. (White & Colored), Trenton, N. J.
United States Encaustic Tile Co., Indianapolis, Ind.

## 12120a— Tile Wall

(See Tile, Art & Decorative)


It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of trade that comes within the scope of the work. : : : : : : : : :


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# "Merchant's Old Method"

(Open Hearth Base)

High-Grade

# ROOFING PLATES

THIS ROOFING PLATE IS RECOGNIZED BY LEADING ARCHITECTS AND ENGINEERS AS BEING THE VERY BEST PROCURABLE.

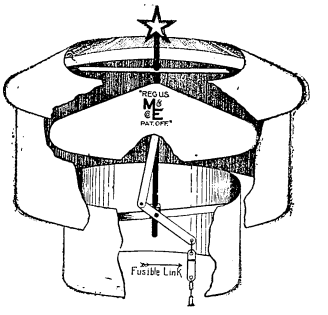
IT IS CONSIDERED SO BY THE U. S. GOVERNMENT IN THE VARIOUS ENGINEERING and CONSTRUCTION DEPARTMENTS.

**IT IS ABSOLUTELY RELIABLE AND OF UNIFORM QUALITY**

THE FIRE-RETARDING MODEL "A"

# "Star" Ventilator

## A Gravity Closing Device STORM PROOF EFFECTIVE




The top of this ventilator is movable vertically by a lever arrangement, controlled by a chain with FUSIBLE LINK, and the top closes by gravity.

The model "B" is a skylight and ventilator combined with automatic closing device operated with chain and fusible link.

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SEAMLESS DRAWN TUBES

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CORNICE ROOFING AND BRAZIERS' COPPER

## DRAWN COPPER BARS

FOR ELECTRICAL PURPOSES

## IRON SIZE BRASS PIPE

FOR PLUMBING, ETC.

*WE MAKE*

# Babbitt Metals

*FOR ALL PURPOSES*

**Linotype, Monotype,**

**Stereotype, Electrotype,**

**Composotype and Autoplate**

And all Special Alloys of Similar Nature

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# MERCHANT & EVANS CO.

Successor to MERCHANT & CO., Inc.

"Reg. U. S. M&E Pat. Off."

Manufacturers of **Merchant's Metal Spanish Tile and Gothic Shingles**

**PHILADELPHIA** **BROOKLYN** **CHICAGO**

**NEW YORK** **BALTIMORE** **KANSAS CITY** **DENVER**

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1891-1911

FOR TWENTY YEARS

Hendricks'
Commercial Register

has been acknowledged as the best of all similar publications. It is commended by the leading Trade Journals and is used by the largest firms and corporations in all lines of business. ::

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## 12121—Tiling (Acid Proof)
(For Chemical Works)

La Clede-Christy Clay Products Co., St. Louis, Mo.

## 12122—Tiling (Interlocking Rubber)
(See Firms in Tile, Rubber, with the word "Interlocking" following their Name)

## 12123— Tillers (Boot)
Wilcox, Crittenden & Co., Middletown, Conn.

## Tills (Alarm)
(See Drawers, Cash or Money)

## Time Detectors
(See Clocks, Watchman's)

## 12123a—Time Recorders
(See also Recorders, Time)

**HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass.** (See adv. index & branch offices, end of book)

## 12124— Timeometers
Automatic Time Stamp Co. (For Telephone Toll Line Switchboards), 160 Congress, Boston, Mass.

## 12125— Timers (Spark)
American Coil Co., Foxboro, Mass.
Byrne, Kingston & Co., Kokomo, Ind.
Champion, Albert Co. ("Nieuport" Sole Agents), 541 Tremont, Boston, Mass.
Connecticut Telephone & Electric Co., Meriden, Conn.
Continental Engine Co. ("C. E."), Fisher Bldg., Chicago, Ill.
Crouse-Hinds Co., Syracuse, N. Y.
Dayton Electrical Mfg. Co., Dayton, O.
Dow Portable Electric Co., Braintree, Mass.
Fulmer, C. F. ("Invincible"), Plainfield, N. J.
Herz & Co., 205 Lafayette, New York
Illinois Automobile & Parts Co. ("Holtz"), Peoria, Ill.
Kellogg Mfg. Co., Rochester, N. Y.
Kokomo Electric Co., Kokomo, Ind.
Milwaukee Auto Eng. & Supply Co., Milwaukee, Wis.
Mosler, A. R. & Co. (Inc.) ("Eccentric"), 163 W 29th, New York
New York Coil Co., 338 Pearl, New York
Pittsfield Spark Coil Co. (Secondary Distributors), Dalton, Mass.
Post & Lester Co. ("E. I. C."), Hartford, Conn.
Powell Muffler & Timer Mfg. Co. ("Twentieth Century"), Utica, N. Y.
Quad Mfg. Co., Columbus, Ohio
Schug El. Mfg. Co., Detroit, Mich.
Sintz, Wallin Co., Grand Rapids, Mich.
Splitdorf, C. F., Walton av & 138th, New York
Thurston, F. A., 1361 E 57th, Chicago, Ill.
Westerfield Motor Co., Anderson, Ind.

## 12126—Tin (Bar & Pig)
American Metal Co., 52 B'way, New York
Andrews Steel Co. (Tin Bars), Newport, Ky.
Baerwald, Emil (Pig Tin), 2 Rector, New York
Chadwick-Boston Lead Co., Boston, Mass.
Davol, Jno. & Sons, 100 John, New York
Genesee Metal Co., Rochester, N. Y.
Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.
Hayman, Mich'l & Co., Buffalo, N. Y.
Hendricks Bros., 49 Cliff, New York
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
**LEAVITT, C. W. & CO. (Pig Tin Only)**, 34 Church, New York. (See adv. index, end of book)
Lisberger, B. & Co., 739 E. 14th, New York
Los Angeles Smelting & Refining Co., Los Angeles, Cal.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Moers, Albert A. (Pig Tin), 24 Stone, New York
Nassau Smelting & Refining Works, 609 W 29th, New York
New York Metal Selling Co., 2 Rector, New
Peerless Alloy Co., Denver, Col. York
Selby Smelting & Lead Co., San Francisco, Cal.
United States Reduction Co., 410 S Clinton, Chicago, Ill.
Vernon Metal Co., 30 Church, New York
Vulcan Detinning Co. (Pig Tin), 114 Liberty,
Waite, Ranlet & Co., Boston, Mass. N. Y.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)
Woodfall Bros., 1105 Fairmount av, Phila., Pa.

## 12127— Tin (Block)
Toothill, John (Sheet), Rochelle Park, N. J.

## 12128— Tin Crystals
Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
General Chemical Co., 25 Broad, New York
Grasselli Chemical Co., The Arcade, Cleveland, O., & 60 Wall, New York
Merrimac Chemical Co., Boston, Mass.
Sholes, Chas. E. Co. (Also Tin Bichloride), 164 Front, New York

## 12129— Tin Foil
Budde & Westerman, 50 Vesey, New York
Cohn, Hugo & Co., 67 Murray, New York
Conley Tinfoil Co. (Wrapping Machine Foil), 521 W 25th, New York
Crooke, Jno. J. Co., 186 Grand, New York
Hutchinson, W. H. & Son, 319 S Desplaines, Chicago, Ill.
Johnston Tin Foil & Metal Co., St. Louis, Mo.
Lehmaier, Schwartz & Co., 207 E 23d, New York
Wittemann Bros., Wolcott & Ferris, Brooklyn, N. Y.

## 12130— Tin Plate Bars
(See also Black Plates for Trimming)

Andrews Steel Co. (Acid & Basic Open Hearth Steel), Newport, Ky.
Carnegie Steel Co. (Bessemer Steel), Pittsburg, Pa.
Dover Forge & Iron Co. (Charcoal Iron), Canal Dover, O.
Follansbee Bros. Co., Pittsburg, Pa.
Illinois Steel Co., 115 Adams, Chicago, Ill.
Job Iron & Steel Co., Ashland, Ky.
Republic Iron & Steel Co., Pittsburg, Pa.
Vulcan Charcoal Iron & Steel Co. (Charcoal Iron), Crum Lynne, Pa.

## 12131—Tin Plate Dipperies
(See Tin Plate Manufacturers)

## 12131a—Tin Plate Importers
**LEAVITT, C. W. & CO., 220 B'way, New York.** (See adv. index, end of book)

## 12132— Tin Plate Mfrs.
(See also Black Plates for Tinning; also Tin Plate Bars)

Alcania Co. (Tin & Terne Plate), Pittsburg, Pa.
American Sheet & Tin Plate Co. (Tin & Terne Plate), Pittsburg, Pa.
**BERGER MFG. CO. (Charcoal &** Open Hearth, etc., Bright & Terne), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Buhl Stamping Co. (Tin Plate for Their Own Consumption Only), Detroit, Mich.
Canonsburg Steel & Iron Works (Tin & Terne Plate), Canonsburg, Pa.
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Carnahan Tin Plate & Sheet Co. (Tin & Terne Plate), Canton, O.
De Forest Sheet & Tin Plate Co., Niles, O.
Ferguson Tin Plate Co. (Terne Plates, Buy Black Sheets), Pittsburg, Pa.
Follansbee Bros. Co. (Bright Charcoal, Tin & Terne Plate, "Banfield Best Bright", "Gilbert" & "Rosedale"), Pittsburg, Pa.
Granite City Tin Plate Plant (National Enameling & Stamping Co., Owners) (Tin Plate for Their Own Consumption Only), Granite City, Ill.
Griffiths Charcoal Iron Mills (Tin Plate Only), Washington, Pa.
Jones & Laughlin Steel Co. (Bright Coke Plates; also Black Plate), Pittsburg, Pa.
Lalance & Grosjean Mfg. Co. (Tin Plate for Their Own Consumption Only), 299 B'way, New York
McKeesport Tin Plate Co. (Tin Plate Only), McKeesport, Pa.
**MERCHANT & EVANS CO. (Inc.)** (Bright & Roofing), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Meurer Bros. Co. (Tin & Terne Plate, Buy Black Plates), Brooklyn, N. Y.
Osterberg Tin Plate Co. (Tin Plate Only), Waynesburg, Pa.

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103 State Street, Chicago, Ill.

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Phillips Sheet & Tin Plate Co. (Tin & Terne Plate, Cokes & Charcoal), Weirton, W. Va.
Pope Tin Plate Co. (Tin Plate Only), Pittsburg, Pa.
Standard Tin Plate Co. (Tin & Terne Plate), Cannonsburg, Pa.
Sturgis & Burn Mfg. Co. (Tin Plate for Their own Consumption Only), Harrison & Green Sts., Chicago, Ill.
Taylor, N. & G. Co. (Tin & Terne Plate), Mariner & Merchants' bldg, Phila., Pa.
Washington Tin Plate Co. (Tin & Terne Plate), Washington, Pa.
Wheeling Corrugating Co., Wheeling, W. Va.
Wilkes Rolling Mill Co. (Tin Plate), Sharon, Pa.

## 12133—Tin Plate, Metals, Etc.

(See also Roofing & Siding, Iron & Steel; also Tin Plate Manufacturers)

### ARKANSAS.

LITTLE ROCK—Fones Bros. Hdw. Co.

### CALIFORNIA.

LOS ANGELES—Boynton, H. R. Co.
Harper & Reynolds Co.
Holbrook, Merrill & Stetson
Montague, W. W. & Co., 124 N Los Angeles
SACRAMENTO—Schaw-Batcher Co.
Schaw-Batcher Co.
SAN FRANCISCO—Arnold Hardware Co.
Burnstine Bros. Co.
Dalziel-Moller Co., 543 Mission
Dunham, Carrigan & Hayden Co.
Garrett, W. T. & Co.
Holbrook, Merrill & Stetson
Montague, W. W. & Co., 557 Market
Pacific Hardware & Steel Co., 7th & Townsend
Pacific Metal Works, 153 1st
Speddy, T. H. & Co.
Tay, Geo. H. Co.

### COLORADO.

DENVER—Rowntree, Jno. T.

### CONNECTICUT.

BRIDGEPORT—Chapman & Bangs Co.
Hunter & Havens
HARTFORD—Blodget & Clapp Co.
Ensworth, L. L. & Son.
NEW HAVEN—Mersick, C. S. & Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Adler, M. J., 3148 M. N W
Kendall, J. B. Co., 485 Mo av, N W
Lambie, Jas. B. Co., 1415 N. Y. av, N W

### GEORGIA.

ATLANTA—Conklin Tin Plate & Metal Co.
SAVANNAH—Conklin Tin Plate & Metal Co.
Weed, J. D. & Co.

### ILLINOIS.

ALTON—Degenhardt, A. J.
CHICAGO—Allerton-Clarke Co., 118 Lake
Hibbard, Spencer, Bartlett & Co., 1 State St. Bridge
Johnston, Jno. & Co., 233 Lake
McVoy Sheet & Tin Plate Co., 25 Michigan
MERCHANT & EVANS CO. (Inc.), 113 N Sheldon. (See adv. index, end of book)
Scully Steel & Iron Co., Ashland av & 24th
Trench, Dan'l G. & Co., 5 Wabash ave
GALESBURG—Galesburg Cornice Works
OTTAWA—Jordan, R. C.
Refoir Hardware Co.
PEORIA—Clark-Smith Hardware Co.
Hunter & Strehlow
Walker, Isaac Hdw. Co.
QUINCY—Cottrell Hdw. Co.
Tenk Hdw. Co.

### INDIANA.

ANDERSON—Gedge Bros. Iron Roofing Co.
EVANSVILLE—Thiele, I. A.
FORT WAYNE—Ash, H. J.
Seavey Hdw. Co.
INDIANAPOLIS—Indianapolis Corrugating Co.
Indianapolis Stove Co., Roosevelt & Columbia av
Standard Metal Co., Illinois & South
Tanner & Co., 216 S Meridian
Van Camp Hdw. & Iron Co., 401 W Maryland
RICHMOND—Jones Hardware Co.
TERRE HAUTE—Smith, C. C. Sons Co.

### IOWA.

BURLINGTON—Donahue, Robt. Iron & Hardware Co.
DUBUQUE—Klauer Mfg. Co.
Tredway, A. & Sons Hdw. Co.

### KANSAS.

ATCHISON—Blish, Mize & Silliman Hdw. Co.
Harwi, A. J. Hardware Co.
LEAVENWORTH—Crancer Hardware Co.

### KENTUCKY.

LOUISVILLE—Belknap Hardware & Mfg. Co.
Bridgeford & Co., 501 W Main
Connor, Chas. H. & Co., 17th & Arbegust
Stratton & Terstegge Co., 728 W Main
Todd-Donigan Iron Co., 817 W Main

### LOUISIANA.

NEW ORLEANS—Stauffer, Eshleman & Co.

### MAINE.

EASTPORT—Milliken, R. F. & Son (Canners' Supplies)
LEWISTON—Stetson, J. H. Co.

### MARYLAND.

BALTIMORE—Ammidon & Co.
Baltimore Copper Smelting & Rolling Co. (Copper Only), Keyser bldg
Central Metal & Supply Co., 615 E Lombard
Clendenin Bros., 1417 Thames
Kahl-Holt Co., 111 S Charles
Lyon, Conklin & Co., 13 Balderston
MERCHANT & EVANS CO. (Inc.), 232 St. Paul. (See adv. index, end of book)
Parker, E. L. & Nimmo Co., 203 S Charles

### MASSACHUSETTS.

BOSTON—Austin & Doten, 102 North
Brown-Wales Co., 83 Purchase
Fitz, Dana & Co., 110 North
Foster, W. T. & Co., 9 Bowker
Gallagher, D. F. & Co., 37 Commercial wf.
Harvey, Arthur C. Co., 391 Congress
Herrick Co., 47 Broad
Lloyd, Geo. H., 131 State
Richards & Co., 200 Causeway
Waite, Ranlet & Co., 82 Broad
Wheeling Corrugating Co., 132 Pearl
SPRINGFIELD—Lewis, Chas. C. Co.
New England Plumbing Supply Co.
WORCESTER—McGuinness, J. F.

### MICHIGAN.

BATTLE CREEK—Bock, Walker Co.
Brockett, L. B. & Sons
DETROIT—Buhl Sons Co., 115 Woodbridge
BURTON, W. J. CO., 161 W. Congress. (See adv. index, end of book)
Fletcher Hardware Co., 61 W Woodbridge
Standart Bros., 155 W Woodbridge
Walker Mfg. & Supply Co., 136 W Larned
GRAND RAPIDS—Foster, Stevens & Co.
KALAMAZOO—Edwards & Chamberlin Hdw. Co.
SAGINAW—Valley Cornice & Slate Co.

### MINNESOTA.

DULUTH—Duluth Corrugating & Roofing Co.
MINNEAPOLIS—Janney, Semple, Hill & Co.
Morison, W. K. & Co., 249 Nicollet av
ST. PAUL—Decker, Adam Hardw. Co. (Est. of)
Farwell, Oxmun, Kirk & Co.
Hackett-Walther-Gates Hardware Co.
St. Paul Roofing, Cornice & Ornament Co.
WINONA—Cone, R. D. Co.

### MISSOURI.

KANSAS CITY—Gille Mfg. Co.
MERCHANT & EVANS CO. (Inc.), 2008 Baltimore av. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO., S Bay & Aldrich. (See adv. index, end of book)
Richards & Conover Hardware Co.
Twichell Iron Co.
ST. JOSEPH—Wyeth Hdw. & Mfg. Co.
ST. LOUIS—Norvell-Shapleigh Hdw. Co., Washington & 3rd
Rumsey, L. M. Mfg. Co.
Simmons Hdw. Co., Spruce & 9th
Souther, E. E. Iron Co.
Witte Hardware Co., 704 N 3d

### NEBRASKA.

OMAHA—Lee-Glass-Andreesen Hdw. Co., 9th & Harney
Lehmer, Jos. R., 1212 Farnam

### NEW HAMPSHIRE.

MANCHESTER—Pike & Heald Co., 972 Elm

### NEW JERSEY.

ELIZABETH—Elizabeth Hdw. Co., 202 Broad
JERSEY CITY—Letcher, R. J. & Son, 193 Morgan
N. Y. Iron Roofing & Corrugating Co., 1st & Wash'n
NEWARK—Coe-Faitoute Co., 62 Lawrence
Coe, Jas. A. & Co., 106 Mulberry
Egbert, W. V. & Co., 37 Mechanic
Macknet & Doremus, 796 Broad

### NEW YORK.

ALBANY—Hoy & Co.
AUBURN—Smith & Pearson
BINGHAMTON—Babcock, Hinds & Underwood
BUFFALO—Beals & Co.
Buffalo Wholesale Hdw. Co., 331 Wash'n
Hofeller, Theo. & Co.
Newman, W. H. H. & Co.
Republic Metalware Co.
Schmahl, Jacob
Walbridge & Co.
Weed & Co.
ELMIRA—Booth, Irving D.

### NEW YORK CITY.

#### Borough of Brooklyn.

BROOKLYN—Knight, Thos. G., 52 Myrtle av
MERCHANT & EVANS CO. (Inc.), 584 Flushing av. (See adv. index, end of book)
Meurer Bros. Co., 575 Flushing av

#### Boroughs of Manhattan & Bronx.

NEW YORK—Bruce & Cook, 190 Water
De Milt, H. R. & Co., 238 Water
Dickerson, Van Dusen & Co., 32 Cliff
Feld, Geo. A. Co., 162 E 129th
Fitz-Dana & Brown, 441 Pearl
Fox Bros. & Co., 126 Lafayette
Fuller Bros. & Co., 139 Greenwich
Hoffman & Scofield, 100 Beekman
HUNGERFORD, U. T. BRASS & Copper Co., 497 Pearl
LEAVITT, C. W. & CO., 220 B'way. (See adv. index, end of book)
MERCHANT & EVANS CO. (Inc.), 242 Water. (See adv. index, end of book)
Ogden & Wallace, 581 Greenwich
Phelps, Dodge & Co., 99 John
Roberts, F. K. Co., 196 Chambers
Sel, Benj. & Co., 59 Orchard
Trench, C. S. & Co., 81 Fulton

**(End of New York City)**

PORT JERVIS—Gordon & Malven Co.
SCHENECTADY—Case, Levi & Co.
SYRACUSE—Burhans & Black Co.
Syracuse Hdw. & Iron Co.
TROY—Warren, J. M. & Co.
UTICA—Millar, Chas. & Son Co.
WATERTOWN—Hunting Co.
Spratt, Corcoran & Foley Co.

### OHIO.

CANTON—CANTON MFG. CO. (See adv. index, end of book)
CINCINNATI—Cincinnati Tin & Japan Co.
EDWARDS MFG. CO., 545-565 Eggleton av. (See adv. index, end of book)
Huenefeld, E. H. Co., Inc.
Lawson, F. H. Co., Wateley, nr Evans
McDonald, J. & Sons Co.
Porter Iron Roofing & Corrugating Co., 522 Culvert
Robertson, W. F. Steel & Iron Co. (Sheet Iron & Steel, Tin & Terne Plates, etc.)
Scott Roofing & Mfg. Co., 408 Culvert
CLEVELAND—Bingham, W. Co., 1433 W 9th.
Lockwood-Luetkemeyer-Henry Co. N W
Osborn, J. M. & L. A. Co.
Worthington, Geo. Co., 814 St. Clair
COLUMBUS—Mithoff, H. & Co., 284 S High
Schoedinger, F. O.
DAYTON—Ach, Abraham & Son, 33 W 2d
Hartman-Franz Co., 116 N St. Clair
FOREST—Dickelman Mfg. Co.
LISBON—Armstrong, P. M. & Co.
MANSFIELD—Blymer Bros. Co.

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NILES—Garry Iron & Steel Co.
TIFFIN—Tiffin Art Metal Co.
TOLEDO—Bostwick-Braun Co.
Stollberg Hardware Co., 605 Cherry

### OREGON.

PORTLAND—Failing, McCalman Co.
Pacific Metal Works, 73 2d, N

### PENNSYLVANIA.

HAZLETON—Bright, J. C. & Co.
LANCASTER—Reilly Bros. & Raub
Sheet Metal & Supply Co.
Steinman Hdw. Co.
NEW CASTLE—Smith, Hutton & Kirk Co.
PHILADELPHIA—Baily, R. M. & Co., Arcade bldg
Berger Bros. Co. (Also Tinners' Tools & Supplies), 237 Arch
Berger, Leander D., 59 N. 2d,
Calvert & Holloway, 68 N 2d
Carter, Donlevy & Co., 1012 Cherry
Gummey, McFarland & Co., 147 N 10th
Hall & Carpenter, 518 Race
Jolley, J. H. & Co., 42 N 5th
Lukens, Thos. F., Metal Co., 238 N. 4th
Marshall Bros. & Co., 30 Girard av
**MERCHANT & EVANS CO. (Inc.),** 517 Arch. (See adv. index, end of book)
Potts, W. F. Son & Co., 1224 Cherry
Riter Bros. & Co., 1022 Race
Stelwagon Mfg. Co., 19th & Wash'n
Taylor, N. & G. Co., Mariners' & Merchants' bldg
Trotter, Nathan & Co., 36 N Front
Wilson, E. H. & Co., Arcade bldg
PITTSBURG—Bindley Hdw. & Mfg. Co.
Follansbee Bros. Co.
Demmler Bros. Co.
McClure Co., 14 4th av
POTTSVILLE—Bright & Co.
READING—Bard Hardware Co.
Stichter Hdw. Co. (Ltd.)
WILKES-BARRE—Bertels, W. B. & Son Co.
Eastern Penna. Supply Co.
WILLIAMSPORT—Kline & Co.
YORK—Small, P. A. & S. Co.

### RHODE ISLAND.

PROVIDENCE—Congdon & Carpenter Co.

### SOUTH CAROLINA.

CHARLESTON—Shepherd Supply Co.

### TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foundry Co.
Magill Hdw. Co.
MEMPHIS—Livermore Foundry & Mach. Co.
Pidgeon, Thomas, Iron Co.

### TEXAS.

AUSTIN—Tips, Walter
Webb, Taylor & Perry
FORT WORTH—Nash Hdw. Co.
GALVESTON—Parr, Wm. & Co.
HOUSTON—Girten-Russ Supply Co.
Heitmann, F. W. Co.
Peden Iron & Steel Co.
Rogers, W. H. & Co., Inc.
Schopmeyer Mfg. & Supply Co.
LAREDO—Deutz, A. & Bro.
WACO—Strauss, Edw.

### UTAH.

SALT LAKE CITY—Strevell-Paterson Hdw. Co.

### VERMONT.

BARRE—Phelps, N. D., Co.
MONTPELIER—Blanchard, Fred.

### VIRGINIA.

LYNCHBURG—Barker-Jennings Hdw. Co.
Handy, N. B. Co.
NORFOLK—Howard, John T. & Co.
RICHMOND—Gordon Metal Co.

### WASHINGTON.

SEATTLE—Hofius Steel & Equipment Co.
Waterhouse & Price Co., Alaska bldg

### WEST VIRGINIA.

WHEELING—Wheeling Corrugating Co.

### WISCONSIN.

MILWAUKEE—Franfurth, Wm. Hdw. Co.
Frankfurth, Wm. Hdw. Co., 119 W Water
**MILWAUKEE CORRUGATING CO.** (See adv. index, end of book)
Pritzlaff, Jno., Hardware Co., 33 W. Water
SHEBOYGAN—Geele, F. Hdw. Co.

## 12134— Tin Salts

Thomsen Chemical Co., Baltimore, Md.

## Tinners' Furnaces

(See Furnaces, Gasoline Blast)

## 12135—Tinners' Supplies Etc.

(See Index of Contents for Specific Article Wanted. If Not Found, Write Us)

## 12136—Tinners' Trimmings

Central Stamping Co., 174 Fulton, New York
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hero Mfg. Co., Gaul & Adams, Phila., Pa.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

## 12137—Tinning & Japanning

American Tube & Stamping Co., Bridgeport, Conn.
Buffalo Galvanizing & Tinning Works (Tinning Only), 79 Jackson, Buffalo, N. Y.
Canton Malleable Iron Co. (Japanning Only), Canton, O.
Cassady-Fairbank Mfg. Co. (Tinning Only), 6106 La Salle, Chicago, Ill.
Cincinnati Stamping Co., Cincinnati, O.
Devlin, Thos. Mfg. Co., 3d & Lehigh av, Phila., Pa.
Doering, C. & Son (Tinplating Only), 1373 W Lake, Chicago, Ill.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Elbel Co., Canton, Ohio
Frazer & Jones Co., Syracuse, N. Y.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Hopson & Chapin Mfg. Co. (Japanning Only), New London, Conn.
Grabler Mfg. Co., Cleveland, O.
Igoe Bros. (Tinning Only), 69 Metropolitan av, Brooklyn, N. Y.
Illinois Malleable Iron Co. (Tinning Only), 1801 Diversey boul, Chicago, Ill.
Lefferts Galvanizing & Tinning Works (Tinning Only), 508 E 20th, New York
Lynch, Peter (Japanning), Newark, N. J.
Malleable Iron Fittings Co., Branford, Conn.
Ohio Foundry Co. (Japanning Only), Cleveland, O.
Phila. Hardware & Malleable Iron Works (Inc.), 9th & Jeff'n, Phila., Pa.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Rockford Metal Specialty Co., Rockford, Ill.
Schatz Mfg. Co. (Japanning Only), Poughkeepsie, N. Y.
Sessions, J. H. & Son, Bristol, Conn.
Standard Galvanizing & Mfg. Co. (Tinning Only), Cleveland, O.
Vogel, Wm. & Bros. (Japanning Only), 37 S 9th, Brooklyn, N. Y.
Watrous, E. L. Co. ("Watrous", Process of Tinning), Des Moines, Iowa
White Mountain Freezer Co. (Tinning & Galvanizing), Nashua, N. H.
Wilcox, Crittenden & Co. (Tinning of Castings of All Kinds), Middletown, Conn.

## 12138— Tintometers

Eimer & Amend, 205 3rd av, New York

## 12139— Tinware Mfrs.

(See also Enameled Ware Mfrs.: also Aluminum Hollow Ware; also Stamping, Various Kinds)
Aldrich Mfg. Co., Buffalo, N. Y.
**AMERICAN CAN CO., 447 W 14th,** New York. (See adv. index & branch offices, end of book)
Central Stamping Co. ("Puritan"), 174 Fulton, New York
Chicago Tin Co., 1913 S State, Chicago, Ill.
Coonley Mfg. Co., Clyde, Ill.
Geisel, A. Mfg. Co., St. Louis, Mo.
Geuder, Paeschke & Frey Co. (Anti-Rust), also Enameled, Galvanized & Japanned Hollow Ware), Milwaukee, Wis.
Judd & Leland Mfg. Co. (Plain & Anti-Rust), Clifton Springs, N. Y.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Lisk Mfg. Co. (Ltd.) ("Lisk" Anti Rust), Canandaigua, N. Y.
National Enameling & Stamping Co., B'way & White, New York
Nichthauser & Levy, Provost & Java, Brooklyn, N. Y.
Reed Mfg. Co., Newark, N. J.
Stuber & Kuck, Peoria, Ill.
Wheeling Stamping Co., Wheeling, W. Va.

## 12140— Tipples (Coal)

(See Tipples, Mine)

## 12141— Tipples (Mine)

**ALLIS-CHALMERS CO. (Steel),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
**BARTLETT, C. O. & SNOW CO.** (Steel, Coal), French st, Cleveland, O. (See adv. index & branch offices, end of book)
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Eagle Foundry & Machine Co., Fort Scott, Kans.
**FAIRBANKS, MORSE & CO. (De**signers & Builders of Coal Tipples & Pockets), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairmont Mining Machinery Co. (Steel & Wood), Fairmont, W. Va.
Farris Bridge Co. (Steel Coal), Pittsburg, Pa.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Heyl & Patterson (Coal, Steel), Pittsburg, Pa.
**JEFFREY MFG. CO. (Steel, etc.),** Columbus, O. (See adv. index & branch offices, end of book)
**LINK BELT COMPANY (Steel or** Wood for Coal, etc.), Hunting Park av & Reading Ry., Phila., Pa. (See adv. index & branch offices, end of book)
McClintic-Marshall Construction Co. (Steel), Pittsburg, Pa.
McMyler-Interstate Co. (Steel, Coal), 1799 Columbus rd, Cleveland, O.
Mineral Ridge Mfg. Co., Mineral Ridge, O.
**MINNEAPOLIS STEEL & MACHIN**ery Co. (Steel), Minneapolis, Minn. (See adv. index & branch offices, end of book)
Mullen, John & Son (Coal), Shamokin, Pa.
Nelsonville Foundry & Machine Co. (Steel, Coal), Nelsonville, O.
Niles Mine & Mill Supply Co. (Steel, Coal), Cleveland, O., & Niles, O.
Ottumwa Box Car Loader Co. (Steel), Ottumwa, Ia.
Parker, Tatcher, A. Co. (Steel, Coal), Terre Haute, Ind.
Penn. Bridge Co. (Steel, Coal), Beaver Falls, Pa.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Pittsburg Coal Washer Co. (Coal), Pittsburg, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Roberts & Schaefer Co. (Engineers & Contractors), Old Colony bldg, Chicago, Ill.
**SCAIFE, WM. B. & SONS CO. (Steel), 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Scottdale Foundry & Machine Co., Scottdale, Pa.
**SULLIVAN MACHINERY CO. ("Wil**son & Mitchell"), Peoples Gas bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Virginia Bridge & Iron Co. (Steel, Coal), Roanoke, Va.
Wellman-Seaver-Morgan Co. (Steel), Cleveland, Ohio
What Cheer Tool Co. ("Walker" Revolving), What Cheer, Ia.
Wisconsin Bridge & Iron Co. (Steel), Milwaukee, Wis.

## 12142—Tips (Chair & Crutch, Rubber)

Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Elastic Tip Co., 370 Atlantic av, Boston, Mass.
Foster Rubber Co., Boston, Mass.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Laurel Rubber Co. (Rubber Gas Tubing Tips), Garfield, N. J.
Morgan & Wright (Inc.), Detroit, Mich.

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**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO.,** (Chair, Crutch, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 6529 Market, Phila., Pa.

## 12143—Tips (Chair & Crutch, Wool)

Syracuse Caster & Felt Co. ("Heron"), Utica, N. Y.

## 12144—Tips (Electric Cord)

Holland Electric Co., Boston, Mass.
McEvoy, C. H., Lowell, Mass.
**NATIONAL-ACME MFG. CO., Cleveland, O.**

## 12145—Tips (Gas Burner)

American Lava Co. (Lava), Chattanooga, Tenn.
Clough, Theo. (Steel), Dobbs Ferry, N. Y.
Cohutta Talc Co. (Lava), Dalton, Ga.
Colonial Mfg. Co. (Lava), Chattanooga, Tenn.
Crescent Burner Mfg. Co., 339 B'way, New York
Gas Tip & Self Lighter Co. (Aluminum), 149 Church, New York
Kirchberger, M. & Co. (Importers, Lava), 50 Warren, New York
North Carolina Talc & Mining Co. (Lava Acetylene & Coal Gas Burners), Hewitts, N. C.
Novelty Burner Co. ("E. H.," Lava Coal Gas), Chattanooga, Tenn.
State Line Mfg. Co. (Lava), Chattanooga, Tenn.
Steward, D. M. Mfg. Co. (Lava), Chattanooga, Tenn.
Sunlight Lava Mfg. Co. (Lava), Chattanooga, Tenn.
Thurnauer, G. M. & Bro. (Importers, Lava), 83 Worth, New York

## 12146—Tips (Mine Car)

Grant Iron W'ks ("Wren's"), Mahony City, Pa.

## 12147—Tips or Caps (Railway)

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

## 12148—Tips (Screw)

Elastic Tip Co. (Slotted Rubber Head), Boston, Mass.
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co. (Rubber Head), 629 Market, Phila., Pa.

## 12149—Tips (Shaft)

Buescher Band Instrument Co., Elkhart, Ind.
Cleveland Hdw. Co., Cleveland, O.
Covert Mfg. Co., Troy, N. Y.
Covert's Saddlery Works, Interlaken, N. Y.
Cowles, C. & Co., New Haven, Conn.
Crandal, Stone & Co., Binghamton, N. Y.
Racine General Mfg. Co., Racine, Wis.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Reno Mfg. Co., Erie, Pa.
Searls Mfg. Co., Newark, N. J.
Snarks, Withington Co., Jackson, Mich.
Woodruff, W. W. & Son, Mt. Carmel, Conn.

## 12150—Tire (Channel & Cushion)

Carnegie Steel Co. (Open Hearth Steel), Pittsburg, Pa.

## 12151—Tire Coolers

Gogel Mfg. Co., Toledo, O.
Wolfe, Matt L. & Son, Miamisburg, O.

## 12152—Tire Fluid

Buffalo Specialty Co. ("The Neverleak" & "Glines" Liquid Rubber & "Holdfast" Liquid Shellac Cement for Automobiles & Bicycles), 375 Ellicott, Buffalo, N. Y.

## 12152a—Tire Repair Kits

**ANDERSON FORGE & MACHINE CO.,** 271 Guoin, Detroit, Mich. (See adv. index, end of book)

## 12153—Tires (Aeroplane)

**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)

## 12154—Tires (Automobile)

(See Tires, Various Kinds)

## 12155—Tires (Baby Carriage)

Acme Rubber Mfg. Co., Trenton, N. J.
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Combination Rubber & Belting Co., Bloomfield,
Continental Rubber Works, Erie, Pa. **N. J.**
Federal Rubber Co., Cudahy, Wis.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)
Springfield Tire & Rubber Co., Springfield, O.

## 12156—Tires (Cushioned, Cellular, Etc.)

Acme Rubber Mfg. Co., Trenton, N. J.
Bailey, C. J. & Co. ("Bailey Won't Slip"), 22 Boylston, Boston, Mass.
Firestone Tire & Rubber Co., Akron, O.

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**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)
St. John Rubber Tire Co., 116 Broad, New York
Springfield Tire & Rubber Co., Springfield, O.
Voorhees Rubber Mfg. Co., 18 Bostwick av, Jersey City, N. J.

## 12157—Tires for Crushing Machinery

Standard Steel Works Co. ("Standard" Solid Weldless), Harrison bldg, Phila., Pa.

## 12157a—Tires (Motor Truck, Solid Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Polack Tire Co., 1741 B'way, New York

## 12158—Tires (Pneumatic, Double Tube)

Continental Caoutchoue Co., 1787 B'way, New York
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Firestone Tire & Rubber Co. ("Firestone"), Akron, O.
Fisk Rubber Co. ("Fisk" Mechanically Fastened), Chicopee Falls, Mass.
**GOODRICH, B. F. CO. ("Goodrich"),** Akron, O. (See adv. index & branch offices, end of book)
Goshen Rubber Works, Goshen, Ind.
Goodyear Tire & Rubber Co. (Detachable Clincher), Akron, O.
G. & J. Tire Co. ("G. & J.," "Dunlop"), Indianapolis, Ind.
Harburg Tire Co., 229 W 58th, New York
Hartford Rubber Works Co. ("Hartford," "Won't Slip," "Dunlop's Detachable"), Hartford, Conn.
Kokomo Rubber Co., Kokomo, Ind.
Mesinger, H. & F. Mfg. Co. (Leather), 1801 1st av, New York
Morgan & Wright, Detroit, Mich.
**PENNSYLVANIA RUBBER CO.,** ("Pennsylvania Clincher"), Jeannette, Pa. (See adv. index & branch offices, end of book)
Samson Leather Tire Co., B'way & 68th, New York
Western Rawhide Belting Co. (Leather), Milwaukee, Wis.

## 12159—Tires (Pneumatic, Single Tube)

Diamond Rubber Co., Akron, O.
Fisk Rubber Co., Chicopee Falls, Mass.
**GOODRICH, B. F. CO. ("Goodrich"),** Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Goshen Rubber Works Co., Goshen, Ind.
Hartford Rubber Works Co., Hartford, Conn.
Michelin Tire Co. (Clincher, Quick Detachable & Anti-Skid Types), Milltown, N. J.
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)

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## 12160– Tires (Rubber)

Acme Rubber Mfg. Co. (Automobile, Carriage), Trenton, N. J.
Ajax-Grieb Rubber Co. ("Ajax" Carriage), Trenton, N. J.
Batavia Rubber Co., Batavia, N. Y.
Broadway Rubber Tire Co., 243 W 47th, New York
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Consolidated Rubber Tire Co. ("Kelly-Springfield," Solid Vehicle), 20 Vesey, New York
Continental Rubber Co., Erie, Pa.
Dayton Rubber Mfg. Co., Dayton, O.
Diamond Rubber Co., Akron, O.
Dryden Rubber Tire Co., 447 Wabash av, Chicago, Ill.
Empire Rubber Mfg. Co. (Bicycle, etc.), Trenton, N. J.
Federal Rubber Co. (Auto, Baby Carriage, etc.), Cudahy, Wis.
Firestone Tire & Rubber Co. ("Firestone"), Akron, O.
Fisk Rubber Co. (Mechanically Fastened), Chicopee Falls, Mass.
G. & J. Tire Co., Indianapolis, Ind.
**GOORICH, B. F. CO. (Automobile,** Regular Clincher & Quick Detachable), Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co. (Carriage, Automobile Cushion & Bicycle), Akron, O.
Hamilton Rubber Co., Trenton, N. J.
Hartford Rubber Works Co. (Pneumatic & Solid Vehicle), Hartford, Conn.
Indianapolis Rubber Co., Indianapolis, Ind.
Kokomo Rubber Co. (Bicycle & Vehicle), Kokomo, Ind.
McGraw Tire & Rubber Co., East Palestine, O.
Mansfield Rubber Co., Mansfield, O.
Michelin Tire Co. (Clincher, Quick Detachable & Anti-Skid Types), Milltown, N. J.
Morgan & Wright (Inc.) (Automobile, Bicycle, etc.), Detroit, Mich.
Motz Clincher Tire & Rubber Co., Akron, O.
N. Y. Belting & Packing Co. (Ltd.) (Carriage & Automobile), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO.,** (Automobile, Bicycle, Vehicle, Baby Carriage, etc.), Jeannette, Pa. (See adv. Index & branch offices, end of book)
Republic Rubber Co., Youngstown, O.
St. John Rubber Tire Co., 116 Broad, New York
Springfield Tire & Rubber Co., Springfield, O.
Stein Double Cushion Tire Co. (Double Cushioned), Akron, O.
Stokes, Jos. Rubber Co. (Bicycle, etc.), Trenton, N. J.
Strobecker, J. A. & Co., Reading, Pa.
Swinehart Tire & Rubber Co., Akron, O.
Thermoid Rubber Co. (Carriage), Trenton.
Victor Rubber Tire Co., Springfield, O. N. J.

## 12161– Tires (Solid)

Acme Rubber Mfg. Co. (Automobile, Carriage), Trenton, N. J.
Ajax-Grieb Rubber Co. ("Ajax" Carriage), Trenton, N. J.
American Wood Tire Co., Monadnock bldg, Chicago, Ill.
Consolidated Rubber Tire Co. ("Kelly-Springfield"), 20 Vesey, New York
Diamond Rubber Co., Akron, O.
Everett, B. F., Detroit, Mich.
Federal Rubber Co., Cudahy, Wis.
Firestone Tire & Rubber Co., Akron, O.
**GOODRICH, B. F. CO. ("Goodrich,"** Solid Rubber Vehicle), Akron, O. (See adv. index & branch offices, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Hartford Rubber Works Co., Hartford, Conn.
Longdin & Brugger Co., Found du Lac, Wis.
Morgan & Wright, Detroit, Mich.
Motz Clincher Tire & Rubber Co., Akron, O.
New Jersey Car Spring & Rubber Co. ("Wemoka"), Jersey City, N. J.
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO.,** (Carriage & Metal-Base Truck), Jeannette, Pa. (See adv. index & branch offices, end of book)
Springfield Tire & Rubber Co., Springfield, O.
Swinehart Clincher Tire & Rubber Co., Akron, Ohio
Thermoid Rubber Co. (Solid & Cushion Carriage Tires), Trenton, N. J.

## 12162– Tires (Steel)

Chester Steel Castings Co., Chester, Pa.
Carnegie Steel Co., Pittsburg, Pa.
Illinois Steel Co., 115 Adams, Chicago, Ill.
Inter-Ocean Steel Co. (Locomotive, etc.), Railway Exchange, Chicago, Ill.
Interstate Iron & Steel Co. (Round & Square Edge, Grooved Steel, etc.), 1st Nat'l Bank bldg, Chicago, Ill.
Midvale Steel Co. (Car & Locomotive Wheel), Nicetown, Phila., Pa.
Prosser, Thos. & Co. ("The Krupp"), 15 Gold, New York
Railway Steel Spring Co. ("Flatroba" Weldless, Forged & Rolled Steel Flanged), 30 Church, New York
Republic Iron & Steel Co. (Half Oval, etc.), Pittsburg, Pa.
Standard Steel Works (Car & Locomotive), Harrison bldg, Phila., Pa.

## 12162a– Titanium

Goldschmidt Thermit Co., 90 West, New York
Sholes, Chas. E. Co. (Potassium Oxalate), 164 Front, New York

## 12163– Toasters

American Electrical Heater Co. (Electric), Detroit, Mich.
Andrews Wire & Iron Works ("Androck" Bread), Rockford, Ill.
Crane, W. M. Co. ("Crane's" Collapsible), 16 W 32d, New York
**CUTLER-HAMMER MFG. CO. (Elec-** tric), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Diamond Electric Co. ("Delco," Electric), Binghamton, N. Y.
Eclipse Gas Stove Co. ("Eclipse" Gas), Rockford, Ill.
Harkins & Willis (Bread), Ann Arbor, Mich.
**JOHNS, H. W.-MANVILLE CO. (As-** bestos), 100 William, New York. (See adv index & branch offices, end of book)
Pacific Electric Heating Co. ("Hotpoint"), 136 Liberty, New York
Phelps Mfg. Co. ("Cozy," Electric), Detroit, Mich.
Roseland Can & Specialty Co. ("Whitehouse." Bread), Rockford, Ill.
Simplex Electric Heating Co. ("Simplex"), Cambridge, Mass.
Standard Stamping Co. ("Standard"), Marysville, O.
Syracuse Stamping Co., Syracuse, N. Y.

## 12163a–Tobacco Dust & Stems

Kentucky Tobacco Product Co., Louisville, Ky.

## 12164–Tobacco Pouches (Rubber)

**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)

## 12165–Toboggan Slides

Ingersoll Construction Co., Pittsburg, Pa.
Morris, E. Joy, 902 Walnut, Phila., Pa.
Phila. Toboggan Co., 130 E Duval, Gtn., Phila., Pa.

## 12166–Toe-Calks (Steel)

Aetna Steel Toe Calk Co., Southington, Conn.
Always Sharp Horseshoe Calk Mfg. Co., Jersey City, N. J.
American Calk Co. ("Sure-Grip"), Detroit, Mich.
American Horse Shoe Co., Phillipsburg, N. J.
**AMERICAN STEEL & WIRE CO.** ("Junita"), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Burke, P. F. (And "Dooley" Toe Calk), Dorr & Dorchester av, S B, Boston, Mass.
Christman Bros., Eaton, O.
Franklin Steel Works ("Standard," "Climax," "Sweets"), Cambridge, Mass., & Joliet, Ill.
Gautier Dept. Cambria Steel Co., Arcade bldg., Phila., Pa.


# Pennsylvania Rubber Company

JEANNETTE, PA.

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Never Slip Mfg. Co. ("Neverslip" Red Tip, Screws In), New Brunswick, N. J.
Phoenix Horse Shoe Co. ("Phoenix Bull Dog"), Chicago, Ill.
Reynolds, James Mfg. Co. ("Acme," "Wont-Slip" Removable), New Haven, Conn.
Rhode Island Perkins Horse Shoe Co. ("Perkins"), Providence, R. I.
Rowe Calk Selling Co. ("Rowe," "H."), Hartford, Conn.
Sterling Mfg. Co., Hartford, Conn.
West'n Automatic Mach. Screw Co., Elyria, O.
Western Steel & Iron Co. ("Durkee"), Council Bluffs, Ia.
Williams Drop Forging Co. ("Williams Can't-Slip," "Black Diamond," Screw or Removable), Scranton, Pa.

## 12166a—Toggles (Cutter)

**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

## 12167— Tokens (Metal)

**AMERICAN RAILWAY SUPPLY CO.,** 26 Park pl, New York. **(See adv. index, end of book)**

## 12168— Tolanite

Philadelphia Clay Co. (Pulverized or Lump), 1201 Chestnut, Phila., Pa.

## 12169— Toluol

United Gas Improvement Co., Phila., Pa.

## 12170—Tongs (Blacksmiths')

Acme Truck & Tool Co., St. Louis, Mo.
Atha Tool Co., Newark, N. J.
Auer, John, Jr., 199 Middleton, Brooklyn, N. Y.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Champion Tool Co. ("Champion" Clinch & Common), Meadville, Pa.
**Evansville Tool Works, Evansville, Ind.**
Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.
**Heller Bros. Co., Newark, N. J.**
Krieger Tool & Mfg. Co., 83 W Randolph, Chicago, Ill.
**Moore Drop Forging Co., Springfield, Mass.**
Plumb, Fayette R. (Inc.), Fkd., Phila., Pa.
**Stearns, E. C. & Co. ("Stearns," Swivel Jaw), Syracuse, N. Y.**
**Vaughan & Bushnell Mfg. Co., 875 Carroll av., Chicago, Ill.**

## 12171— Tongs (Bull)

Harrow Spring Co., Kalamazoo, Mich.

## 12172— Tongs (Chain)

Dunne, Geo. W. & Co. ("Robbins"), 1943 Carroll av, Chicago, Ill.
Kroeschell Bros. Co. ("Ideal"), 440 W Erie, Chicago, Ill.
Robbins, Gamwell & Co. ("Robbins"), Pittsfield, Mass.
Rochester Drop Forge Co. ("Robbins" Pattern), Rochester, N. Y.
Stortz, John & Son (Hoisting), 210 Vine, Phila., Pa.

## 12173—Tongs (Charging)

Brass Founders Supply Co. (For Brass Fdrs.), Newark, N. J.

## 12174—Tongs (Crucible)

Anderson, W. H. Tool & Supply Co., Detroit, Mich.
**Barnett, Oscar Foundry Co., Newark, N. J.**
Byram & Co., Detroit, Mich.
**Dicke Tool Co., Downers Grove, Ill.**
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit Mich. **(See adv. index & branch offices, end of book)**
**OSBORN MFG. CO., 5401 Hamilton av.** N E, Cleveland, O. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)
**SMITH, J. D. FOUNDRY SUPPLY CO.,** 1846 Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 12175—Tongs (Die Makers')

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12176— Tongs (Hog)

Pratt, Wm. E. Mfg. Co. ("The Hill"), 91 Lake, Chicago, Ill.

## 12177— Tongs (Ice)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Gifford-Wood Co., Hudson, N. Y.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Louden Machinery Co. (Self Opening), Fairfield, Ia.
Morton, D. B., Croton, N. Y.
Oshkosh Mfg. Co., Oshkosh, Wis.
**Parks & Parks ("Little Giant" for Domestic Use), Troy, N. Y.**
**Sanford, A. Logging Tool Co., Oshkosh, Wis.**
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 2130 Carroll av, Chicago, Ill.
White, L. & I. J. Co., Buffalo, N. Y.

## 12178—Tongs (Joint or Timber)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Co., Evart, Mich.
Oshkosh Mfg. Co. (For Hoisting Timbers, etc., into High Buildings), Oshkosh, Wis.

## 12178a—Tongs (Log Skidding)

**CLYDE IRON WORKS, Duluth,** Minn. (See adv. index & branch offices, end of book)

## 12179—Tongs (Machinists')

Barnes Tool Co., New Haven, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12180—Tongs (Piano Hammer Shank)

Kraeuter & Co., Newark, N. J.

## 12181—Tongs (Pick-up Fire)

Atha Tool Co., Newark, N. J.
Krieger Tool & Mfg. Co., 564 W Randolph, Chicago, Ill.

## 12182— Tongs (Pipe)

Acme Truck & Tool Co., St. Louis, Mo.
**Ashcroft Mfg. Co. ("Brown's" Adustable, etc.), 85 Liberty, New York**
**Barnes Tool Co., New Haven, Conn.**
Case, W. A. & Son, Buffalo, N. Y.
Crane Co. (Est. 1855) ("Brown"), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. ("Darling"), Williamsport, Pa.
Diamond Power Specialty Co. ("Diamond"), Detroit, Mich.
Holland Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
**Jarecki Mfg. Co., Erie & Pittsburg, Pa.**
Jumbo Mfg. Co., Pittsburg, Pa.
Kilborn & Bishop Co., New Haven, Conn.
**Knapp, Jas. M., 12 Bowker, Boston, Mass.**
Kroeschell Bros. Co., 440 W Erie, Chicago, Ill.
Mueller, H. Mfg. Co. ("Mueller" Improved Derrick & Pipe Tongs for Water & Gas Mains), Decatur, Ill.
**OIL WELL SUPPLY CO. ("Klein").** 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Rochester Drop Forge Co. ("Robbins" Pattern Chain, Common & "Brown's" Adjustable), Rochester, N. Y.
Ross Gear & Tool Co. ("Headson"), Lafayette, Ind.
Saunders', D. Sons, Yonkers, N. Y.
**Stortz, Jno. & Son, 210 Vine, Phila., Pa.**
Union Drop Forge Co. (Parts Only), 358 W Indiana, Chicago, Ill.
Walworth Mfg. Co., Boston, Mass.

## 12183— Tongs (Rail)

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Byram & Co., Detroit, Mich.
Doble, Abner Co., San Francisco, Cal.
Evansville Tool Works, Evansville, Ind.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Vaughn & Bushnell Mfg. Co. ("B. & O." Drop Forged), Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.

## 12184— Tongs (Rod)

Love, M. A. Mfg. Co. ("Never Slip"), Rockford, Ill.

## 12185— Tongs (Roofing)

Emrich, Phil, Cincinnati, O.
Keene, Geo. C. & Co., Cincinnati, O.
**MILWAUKEE CORRUGATING CO.** Milwaukee, Wis. **(See adv. index & branch offices, end of book)**
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 12186—Tongs (Saw Brazing)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

## Tongs (Skidding)

(See Tools, Logging & Lumbermen's)

## 12187—Tongs (Stone Handling)

**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Lincoln Iron Works (For Handling Finished Work), Rutland, Vt.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 12188—Tongs (Tanners')

Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.

## 12189—Tongues (Buckle)

Campbell-Warner Co., Middletown, Conn.

## 12190— Tool Kits

Klein, Mathias & Sons (Electricians' Pocket), 562 W Van Buren, Chicago, Ill.
Zinn, Edward (Pocket), 670 Hudson, New York

## 12191— Tool Posts

Brown & Sharpe Mfg. Co. (Cutting-Off, etc.), Providence, R. I.
O. K. Tool Holder Co., Shelton, Conn.
Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.

## 12191a—Tool Room Equipment (Steel)

**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)

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## 12192— Tool Sets

Bonner, C. E. Mfg. Co. ("Victor"), Champaign, Ill.
Bridgeport Hardware Mfg. Co. ("B. H. M."), Bridgeport, Conn.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Fray, Jno. S. Co. (Inc.) (Hollow Handles), Bridgeport, Conn.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Reed Mfg. Co. (Pipe), Erie, Pa.
Robinson, M. W. Co. ("Rollis," "Buell's" Hollow Handle), 88 White, New York
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index, end of book)

## 12193—Tool Sets (Automobile)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12194—Tool Stands (Portable)

Western Tool & Mfg. Co. ("Champion" Movable Bench), Springfield, O.

## Tool Steel

(See Steel, Crucible; also Steel Bar Mills)

## Tools (Adjustable Milling)

(See Mills, Adjustable Hollow)

## Tools (Artesian Well Drilling)

(See Machinery, Well Drilling)

## 12195—Tools (Asphalt Paving)

Iroquois Iron Works, Buffalo, N. Y.
Phillips, F. & Son, Baltimore, Md.
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
Universal Road Machinery Co., Kingston, N. Y.

## 12196—Tools (Automobile)

Auto Spring Repairer Co. (Auto Spring Repairers, Cotter Setter & Extractor), 123 Liberty, New York
Blanchard, A. W. ("Blanchard" Tire Detacher), 342 Flatbush av, Brooklyn, N. Y.
Beckley-Ralston Co., 80 Michigan av, Chicago, Ill.
Clark, A. N. & Son, Plainville, Conn.
Crane Puller Co., Allston, Mass.
Duane, W. J. & Co. (Tire Irons), 40 W 60th, New York
Gay, E. L. (Gear, Cam & Flywheel Remover), Southbridge, Mass.
**HAMMACHER, SCHLEMMER & CO.** ("Tourist Autokit"), 133 4th av, New York. (See adv. index, end of book)
Handy Tool Co. (Metal Punch & Bolt Clipper Combined), Bellevue, O.
**HELWIG MFG. CO. ("Helwig" Pneu**matic Riveting Hammer, "Helwig" Pneumatic Clipping Hammer, "Helwig" Pneumatic Reversible Motors & Bolt & Rivet Clippers), St. Paul, Minn. (See adv. index, end of book)
Motor Car Supply Co. ("Husky" Chain Tools), 1453 Michigan av, Chicago, Ill.
Mound Tool & Scraper Co. ("Mounds," Polished Tool Sets), St. Louis, Mo.
Noonan, A. S. Tool & Machine Co., Rome, N. Y.
Rhodes Mfg. Co. (Tire Removers), Grand Rapids, Mich.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Shawver Co. (Tire Removers, "Springfield"), Springfield, O.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)

## 12197— Tools (Beading)

Atha Tool Co. (Flue Beaders), Newark, N. J.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CLEVELAND PUNCH & SHEAR** Works Co. (Flue Beaders), Cleveland, O. (See adv. index, end of book)
Faessler, J. Mfg. Co. (Rapid), Moberly, Mo.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Marshalltown Trowel Co., Marshalltown, Ia.
Wiedeke, Gustave Co. (Boilermakers), Dayton, O.

## 12198—Tools (Bell Centering)

Braunsdorf-Mueller Co., Elizabeth, N. J.

## 12199—Tools (Blacksmiths')

(See Index of Contents for Specific Article Wanted. If Not Found, Write Us)

## 12199a—Tools (Boiler Room)

**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 12200—Tools (Boilermakers')

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
Feruyak & Havenik Machine Co., Mansfield, O.
**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Thomson, Alex., Fitchburg, Mass.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Wickes Bros., Saginaw, Mich.
Wideke, Gustav & Co. (Tube Expanders, Rivet Hole Reamers, Beading Tools, Tube Cutters, Center Markers, Rivet Punches, Dies, etc.), Dayton, O.

## 12201— Tools (Boring)

Armstrong Bros. Tool Co., 339 N Francisco av, Chicago, Ill.
**CLEVELAND TWIST DRILL CO.** (Metal & Wood), Lakeside av & 49th, Cleveland, O. (See adv. index & branch offices, end of book)
Connecticut Valley Mfg. Co. ("Jennings" Wood), Chesterbrook, Conn.
Forest City Bit & Tool Co. (Wood Boring & Hollow Mortising), Rockford, Ill.
Fray, Jno. S. Co. (Inc.), Bridgeport, Conn.
Goodell Mfg. Co., Greenfield, Mass.
Lea, Thomas, New Brunswick, N. J.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Millers Falls Co. (Automatic), 28 Warren, New York. Works: Millers Falls, Mass.
National Mfg. Co., Worcester, Mass.
O. K. Tool Holder Co., Shelton, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Union Caliper Co. ("Hill"), Orange, Mass.
Wessman Tool Co. (Wood Boring & Hollow Mortising), Rockford, Ill.
Western Tool & Mfg. Co. ("Champion"), Springfield, O.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

## 12202—Tools (Bricklayers')

(See Tools, Masons')

## 12202a—Tools (Burring)

**WELLS BROS. CO. ("Little Giant"), Green**field, Mass. (See adv. index & branch offices, end of book)

## 12203—Tools (Butchers')

(See Index of Contents for Specific Article Required. If not Found, Write Us)

## 12204—Tools (Cabinetmakers')

(See Specific Article Required)

## 12205— Tools (Calking)

Anderson, W. H. Tool & Supply Co., Detroit, Mich.
Atha Tool Co., Newark, N. J.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Brewer Bros. (Plumbers), 614 Filbert, Phila., Pa.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Carver Tool Works, Spring Valley, N. Y.
Drew, C. & Co., Kingston, Mass.
Falls Mfg. Co., San Francisco, Cal.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Lovejoy Tool Works (Straight or Bent), 335 W Ohio, Chicago, Ill.
Mack & Co., Rochester, N. Y.
Mueller, H. Mfg. Co. (Combination Soil Pipe), Decatur, Ill.
Osborne, C. S. & Co., Harrison, N. J.
Phillips, F. & Son, Baltimore, Md.
Pollard, J. G., 141 Raymond, Brooklyn, N. Y.
S. & I. Co. ("Never Break," Plumbers'), Springfield, Mass.
Stortz, John & Son, 210 Vine, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.
Wiedeke, Gustav & Co. (Boilermakers'), Dayton, O.
Wilcox, Crittenden & Co., Middletown, Conn.

## 12205a—Tools (Can Capping)

Vulcan Electric Heating Co. ("Vulcan" Electric), Buffalo, N. Y.

## 12206—Tools (Carpenters')

(See Index of Contents for Specific Article Required. If Not Found, Write Us)

## 12207—Tools (Carving)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros., Millbury, Mass.
Buck, Chas. Edge Tool Co., Millbury, Mass.
Cassell, Fred, Grand Rapids, Mich.
**HAMMACHER, SCHLEMMER & CO., 133** 4th av, New York. (See adv. index, end of book)
Mack & Co. ("Addis" Style), Rochester, N. Y.
Millers Falls Co., 28 Warren, New York

## 12207a—Tools (Cement Block Laying)

Maddux Concrete Tool Co., Muncie, Ind.

## 12208—Tools (Cement Sidewalk)

(See Tools, Concrete Finishing)

## 12209—Tools (Cement Workers')

Stearns, E. C. & Co., Syracuse, N. Y.

## 12210— Tools (Comb)

Grimes & Harris, Leominster, Mass.

## 12211—Tools (Commutator Turning)

Bryant-Bery Steam Turbine Co., Detroit, Mich.
Fort Wayne Electric Works ("B. & B."), Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Imperial Electric Co. ("Carr"), Akron, O.
Jordan Bros., 74 Beekman, New York
Phillips Mfg. Co., 60 Wall, New York

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## 12212—Tools (Concrete Finishing)

Anderson, W. H. Tool & Supply Co. (Edgers, Groovers, Markers, Rollers, Framers, etc.), 14 Macomb, Detroit, Mich.
Arrowsmith Concrete Tool Co. ("Arrowsmith" Long Handle), Arrowsmith, Ill.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO.** (Steel or Bronze), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Duffy Mfg. Co., 214 W Indiana, Chicago, Ill.
Kewanee Foundry & Mfg. Co. ("Iowa"), Kewanee, Ill.
Kramer Bros. Foundry Co. ("Gem"), Dayton, O.
**MARSH-CAPRON MFG. CO. ("Miracle")**, 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH CO. ("Miracle"), 975 Old** Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Noble, Henry A., 203 Dock, Phila., Pa.
Ohio Tool Co., Columbus, O.
Sheldon, E. H. & Co., 312 N May, Chicago, Ill.
Smith & Holtun Co. ("S. & H." Aluminum), Clinton, Wis.
Stortz, John & Son, 210 Vine, Phila., Pa.
Waterloo Cement & Machinery Co., Waterloo, Iowa

## 12213—Tools (Coopers')

American Axe & Tool Co., Glassport, Pa.
Atha Tool Co., Newark, N. J.
Atkins, E. C. & Co., Indianapolis, Ind.
Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Chapin, Stephens Co., Pine Meadow, Conn.
Cincinnati Tool Co., Cincinnati, O.
Collins Co., Collinsville, Conn.
**CRESCENT NOVELTY MFG. CO.** ("Crescent" Punch), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Drew, C. & Co., Kingston, Mass.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Evansville Tool Works, Evansville, Ind.
Gregg, M. & Son, Rochester, N. Y.
Iron City Tool Works, Pittsburg, Pa.
Mack & Co. (Axes, Adzes, Anvils, Drawing Knives, Beck Horns, etc.), Rochester, N. Y.
Nagengast, Jos. & Co., Bayonne, N. J.
Ohio Tool Co., Columbus, O.
Piqua Handle & Mfg. Co., Piqua, O.
Sandusky Tool Co. (Wood Tools, etc.), Sandusky, O.
Stortz, John & Son, 210 Vine, Phila., Pa.
Swan, Jas. Co., Seymour, Conn.
Vaughn & Bushnell Mfg. Co., 877 Carroll av, Chicago, Ill.
White, L. & I. J. Co., Buffalo, N. Y.

## 12213a—Tools (Cotter Pin)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12214—Tools (Cupola Tenders')

Detroit Foundry Supply Co., Detroit, Mich.

## 12215—Tools (Cutting-Off)

Armstrong Bros. Tool Co., 339 N Francisco av, Chicago, Ill.
Billings & Spencer Co., Hartford, Conn.
Fitchburg Machine Works, Fitchburg, Mass.
Goodell Mfg. Co., Greenfield, Mass.
O. K. Tool Holder Co., Shelton, Conn.
Pratt & Whitney Co. ("Johnson" Cutting-Off Blades), Hartford, Conn.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slate, Dwight Machine Co., Hartford, Conn.
Union Caliper Co. ("Hill High Speed"), Orange, Mass.
Walworth Mfg. Co., 128 Federal, Boston, Mass.
Western Tool & Mfg. Co. ("Champion"), Springfield, O.

## 12216—Tools (Dentists')

American Oil & Supply Co., Newark, N. J.

## 12217—Tools (Diamond)

Baszanger, Jacques & Co., 108 Fulton, New York
Dessau, David & Bros., 180 B'way, New York
Dickinson, Thos. L., 64 Nassau, New York
Grant-Lees Machine Co. (Black Diamond & Bortz), Cleveland, O.
Mendes Cutting Factories (For All Mechanical Purposes), 12 John, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)

## 12218—Tools (Diamond Point Turning)

Dickinson, Thos. L., 64 Nassau, New York
**MEYERS, WILLARD F., 342 Vernon** av, Long Island City, N. Y., & Bedford, Ind. (See adv. index, end of book)
Union Caliper Co., Orange, Mass.

## 12219—Tools (Diamond Set)

Dessau, David & Bros. (For Truing & Turning, Grinding Wheels & All Other Mechanical Purposes), 180 B'way, New York

## 12220—Tools (Draftsman's)

**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 12221—Tools (Drill Sharpening)

Atha Tool Co. (Stone Cutters), Newark, N. J.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Plumb, Fayette R., Fkd., Phila., Pa.

## 12222—Tools (Drilling & Fishing, Oil Well)

**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Bovaird Supply Co., Independence, Kan.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Davin, J. J., Washington, Pa.
Finlayson, Jno., Sistersville, W. Va.
Golley & Finley Iron Works, Lima, O.
Kesselman & Co., Butler, Pa., & Parkersburg, W. Va.
Keystone Driller Co. (Oil Well), Beaver Falls, Pa.
Larkin Bros., Bartelsville, Okla.
Larkin & Co., Butler, Pa.
Leidecker Tool Co., Marietta, O.
Ley, John, Bradford, Pa.
Muirhead, John & Son, Pittston, Pa.
Muncie Gas Engine & Supply Co., Muncie, Ind
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Phillips, David Co., Bradford, Pa.
Robertson, D. W., Bradford, Pa.
Sheridan, John J. & Co., Mars, Pa.
Sinclair & Morrison Co., Lima, O.
Star Drilling Machine Co., Akron, O.
Union Tool Co., Los Angeles, Cal.

## 12223—Tools (Electricians')

(See Tools, Linemen's)

## 12223a—Tools (Emergency)

Universal Tool Co. ("Milla's"), Springfield, Mass.

## 12224—Tools (Emery Wheel Turning)

**BAY STATE STAMPING CO. ("Bennett," Turning & Shaping)**, 380 Chandler, Worcester, Mass. (See adv. index, end of book)

## 12225—Tools (Engine Room)

(See Tools, Packing)

## 12226—Tools (Engineers')

(See also Index of Contents for Specific Article Required)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12227—Tools (Expansion Boring)

Matthews-Davis Tool Co. ("Davis"), St. Louis, Mo.

## 12228—Tools (Farriers')

Atha Tool Co., Newark, N. J.
Champion Tool Co., Meadville, Pa.
Doble, Abner Co., San Francisco, Cal.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Heller Bros. Co., Newark, N. J.
Vaughn & Bushnell Mfg. Co., 2130 Carroll av, Chicago, Ill.
**WELLS BROS. CO. ("Little Giant")**, Greenfield, Mass. (See adv. index & branch offices, end of book)

## 12229— Tools (Firing)

Grabler Mfg. Co., Cleveland, O.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

## 12230—Tools (Gardners')

(See also Index of Contents for Specific Article Required)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12231— Tools (Grab)

Branch Saw Co., St. Louis, Mo.


# CRESCENT NOVELTY MFG. CO.

DIES | EXPERIMENTAL WORK | MODELS

HARDWARE, GRANITOID, CEMENT and CONCRETE TOOLS

"CRESCENT" "NON-RUST" TOOLS Are made of the highest grade materials and will not rust.

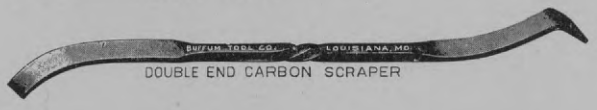
703 SOUTH BROADWAY, ST. LOUIS, MO.


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# BUFFUM TOOL COMPANY, LOUISIANA, MO.



AUTO CHAIN TONG



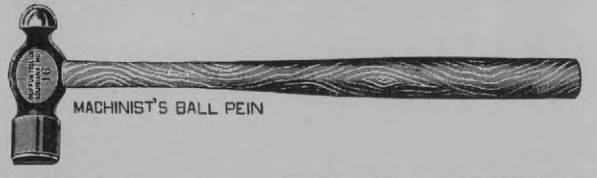
DOUBLE END CARBON SCRAPER



ROUND NOSE CAPE CHISEL



CAPE CHISEL


MACHINIST'S BALL PEIN



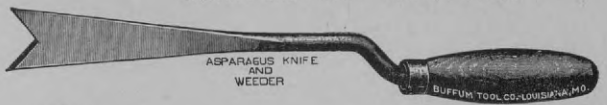
COLD CHISEL



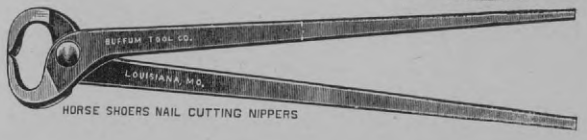
ALL STEEL SCREWDRIVER



SQUARE END PUNCH SQUARE STEEL.



ASPARAGUS KNIFE AND WEEDER



HORSE SHOERS NAIL CUTTING NIPPERS



KNURLED PIN PUNCH

## WE MANUFACTURE TOOLS FOR

MACHINISTS PLUMBERS AUTOMOBILISTS BRICK LAYERS GARDENERS
ENGINEERS CARPENTERS STEAM FITTERS WAREHOUSEMEN CEMENT WORKERS
BOILER MAKERS STONE MASONS



CEILING CAULKING IRON


BANANA KNIFE



LONG BRICK CHISEL
CHISEL POINT


STAR DRILL



ALL STEEL WOOD GOUGE



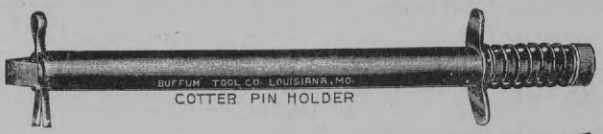
EUREKA HAMMER HEAD CRATE OPENER



SICKLE SECTION PUNCH
OR
PIN PUNCH



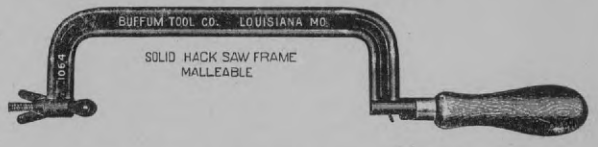
THREE CORNER AUTO SCRAPER



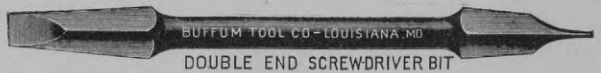
COTTER PIN HOLDER



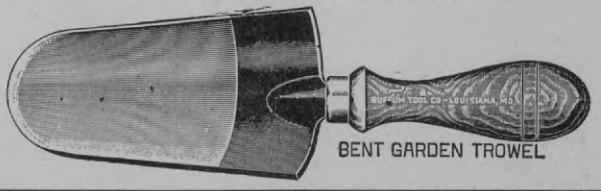
HOOF PARING NIPPERS



SOLID HACK SAW FRAME
MALLEABLE



DOUBLE END SCREWDRIVER BIT



BENT GARDEN TROWEL

## BUFFUM TOOL COMPANY, FACTORY—LOUISIANA, MISSOURI

*AGENCIES*

NEW YORK, 32 Warren Street CHICAGO, 40 Dearborn Street SAN FRANCISCO, 718 Mission Street

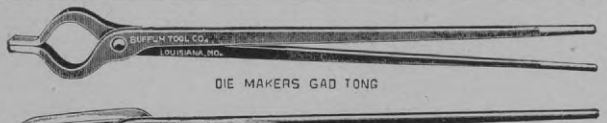
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# BUFFUM TOOL COMPANY

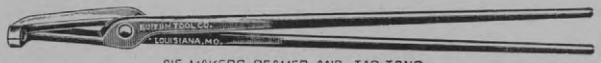
## LOUISIANA, MISSOURI

## Manufacturers for the Jobbing Trade

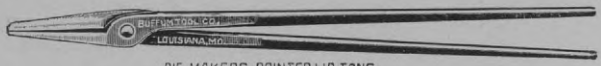
### "HIGH GRADE TOOLS FOR HIGH GRADE WORKMEN"




DIE MAKERS GAD TONG




DIE MAKERS REAMER AND TAP TONG




DIE MAKERS POINTED LIP TONG

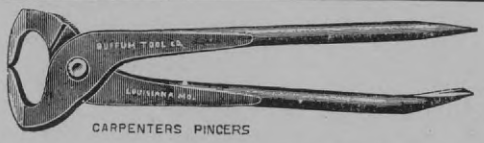



COMBINATION PLIERS

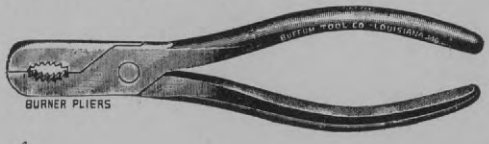



GAS PIPE PLIERS

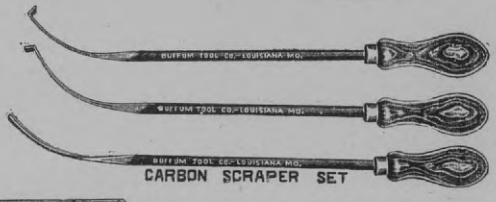



CARPENTERS PINCERS




BURNER PLIERS




CARBON SCRAPER SET




ALL STEEL FLOOR CHISEL

### HANDLE A LINE OF TOOLS THAT WILL PLEASE YOUR CUSTOMERS



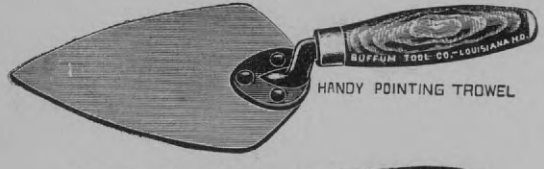

CANE SHAPED PINCH BAR



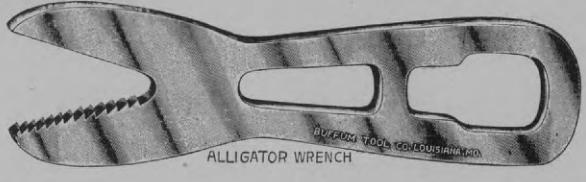

BEADING TOOL



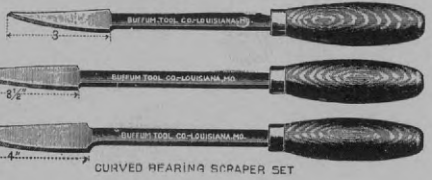

TINNERS RIVET SET




HANDY POINTING TROWEL




ALLIGATOR WRENCH




CURVED BEARING SCRAPER SET

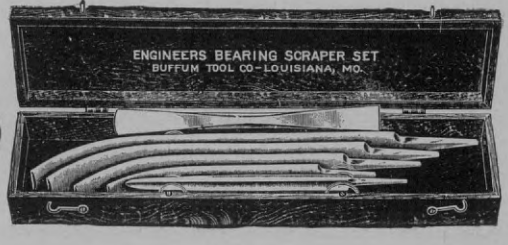









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*No One Ever Made a Reputation Selling Poor Tools—You Can't—We Can't*

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## 12232—Tools (Granite & Stone Cutters')

(See also Pneumatic Stone Cutting Tools)

Ahern, Jas., Barre, Vt.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brown, James H., 50 Beekman, New York
Brunner & Lay, 570 W Polk, Chicago, Ill.
**DALLETT, THOS. H. CO. (Pneumatic,** etc.), 2300 York, Phila., Pa. (See adv. index, end of book)
Davey, J. H., New London, Conn.
Drummond, D. T., Quincy, Mass.
Hauck, Wm. J., Kansas City, Mo.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
**HEARTLEY MACHINE, VARIETY IRON** & Tool Works, Toledo, O. (See adv. index, end of book)
Heathcote, Thos., North Side, Pittsburg, Pa.
Isele, A. W. & Son, 51 Pitts, Boston, Mass.
Kelley, Benj. & Co., Belfast, Me.
Kemp, J. F., Quincy, Mass.
Livingston Mfg. Co., Rockland, Me.
Mead, I. V. & Co., 418 E 110th, New York
Phillips, F. & Son, Baltimore, Md.
Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.
Schueddig, F. Son, St. Louis, Mo.
Spargo, Edw., 68 Commerce, New Haven, Conn.
Stubbs Steel Co., 47 N 5th, Phila., Pa.
Therien Tool Works, 116 1st, av, N Minneap-
Trimbach, Geo. & Son, Dayton, O. olis, Minn.
Trow & Holden, Barre, Vt.
Vogl Tool Co., Kansas City, Mo.
Vulcan Tool Mfg. Co., Quincy, Mass.
Willbas, Gustof, Quincy, Mass.

## 12233—Tools (Gun Cleaning & Reloading)

Faries Mfg. Co. ("C. M. Powers," Cleaners), Decatur, Ill.
King Mfg. Co. (Gun Cleaning Rods), Newark, N. J.
Lefever Arms Co. ("Ideal" Gun Barrel Cleaner), Syracuse, N. Y.
Marlin Fire Arms Co. (Reloading), New Haven, Conn.
Parker Bros. (Cleaning & Reloading), Meriden, Conn.
Remington Arms-Union Metallic Cartridge Co. (Reloading), 299 B'way, New York
Savage Arms Co. (Reloading), Utica, N. Y.
Stevens, J. Arms & Tool Co. (Reloading Cartridges), Chicopee Falls, Mass.
Union Hardware Co. (Cleaning & Reloading), Torrington, Conn.
U. S. Cartridge Co. ("Belcher's" Automatic Magazine Cartridge Loader), Lowell, Mass.
Waterbury Brass Co. (Reloading), Waterbury Conn.
Winchester Repeating Arms Co. (Reloading) New Haven, Conn
Worcester Brush & Scraper Co. ("Criss-Cross," Gun Cleaner & Gun Rod), Worcester, Mass.

## 12233a—Tools (Harness & Saddlery)

Horn, Wm. H. & Bros. ("Diamond," "Crown") 451 N 3d, Phila., Pa.

## 12234— Tools (Haying)

Akron Machine Co., Akron, O.
American Fork & Hoe Co., Cleveland, O.
Appleton Hay Tool Co., Appleton, Wis.
Eureka Mower Co., Utica, N. Y.
Hackney Mfg. Co., St. Paul, Minn.
Herschel, B. Mfg. Co., Peoria, Ill.
Hunt, Helm, Ferris Co., Harvard, Ill.
Iowa Farming Tool Co., Fort Madison, Ia.
Jenkins Hay Rake Stacker Co., Chillcothe, Mo.
Law Mfg. Co., Merriam Park, Minn.
Louden Machinery Co., Fairfield, Ia.
Milwaukee Hay Tool Co., Milwaukee, Wis.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, O.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Porter, J. E. Co., Ottawa, Ill.
Rock River Machine Co., Janesville, Wis.
Stowell Mfg. & Foundry Co., South Milwaukee,
Strickler Hay Tool Co., Janesville. Wis. Wis.
Swanson Mfg. Co., Marseilles, Ill.
Syracuse Chilled Plow Co., Syracuse, N. Y.
**WHITMAN & BARNES MFG. CO.,** ("Diamond"), Akron, O. (See adv. index & branch offices, end of book)

## 12235—Tools (Hollow Mortising)

Forest City Bit & Tool Co., Rockford, Ill.
Wessman Tool Co., Rockford, Ill.

## 12236—Tools (Hose Clamp)

Robson Mfg. Co. ("Lightning" for All Kinds of Hose), Galesburg, Ill.

## 12237— Tools (Ice)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Bodenstein, J. G. & Co., Staatsburgh, N. Y.
Dernell, H. F. & Co., Athens, N. Y.
Falls Mfg. Co., 360 Fremont, San Francisco,
Gerlach, Peter Co., Cleveland, O. Cal.
Gifford-Wood Co. (Knob & Ring Pipe Handle, etc.), Hudson, N. Y.
Gruman, Geo. B., Branchville, Conn.
Heartley Machine Variety Iron & Tool Works, Toledo, O.
Hiles, C. A. & Co. (Chisels, Bars, etc.), 14th & Western av, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
Norton Mfg. Co. (Awls, Chisels, Picks, etc.),
Ohio Brass Co., Mansfield, O. Chester, Conn.
Stevens, Benj. A. Co., Toledo, Ohio.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 12237a—Tools (Ivory Turning)

Dessau, David & Bros. (Diamond), 180 B'way, New York

## Tools (Jewelers')

(See Tools, Watchmakers' & Jewelers')

## 12238— Tools (Jointing)

**BUFFUM TOOL CO. (Cement, Ma**sons', etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)

## 12239—Tools (Key Seating)

National Machine Tool Co., Cincinnati, O.
Union Caliper Co. ("Hill"), Orange, Mass.

## 12240—Tools (Knurling)

Billings & Spencer Co., Hartford, Conn.
Goodell-Platt Co. (Hand), Greenfield, Mass.
Miller Tool Co., New Britain, Conn.
Wells, F. E. & Son Co., Greenfield, Mass.

## 12241—Tools (Lathe & Planer)

Almond, T. R. Mfg. Co. (Turret Head or Monitor Lathe Attachment), Ashburnham, Mass.
Armstrong Bros. Tool Co., 339 N Francisco av,
Atha Tool Co., Newark, N. J. Chicago, Ill.
Billings & Spencer Co. ("Beach's"), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth. N. J.
Fitchburg Machine Works, Fitchburg, Mass.
Meriden Machine Tool Co., Meriden, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
O. K. Tool Holder Co., Shelton, Conn.
Ready Tool Co. ("Red-E" Side Lathe), Bridgeport, Conn.
Reed, F. E. Co., 120 Gold, Worcester, Mass.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Slate, Dwight Machine Co., Hartford, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Superior Tap Co. (Thread Cutting), Springfield, Vt.
Union Caliper Co. ("Hill," "Eberhardt"), Orange, Mass.
Western Tool & Mfg. Co. ("Champion" Side Tool), Springfield, O.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
Young Machine & Tool Co., Worcester, Mass.

## 12242—Tools (Linemen's)

Columbus Handle & Tool Co., Columbus, O.
Dicke Tool Co., Downers Grove, Ill.
Hubbard & Co., Pittsburg, Pa.
Irvington Mfg. Co. ("Irvington"), Irvington, N. J.
Klein, Mathias & Son, 562 W Van Buren, Chicago, Ill.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## 12243—Tools (Logging & Lumberman's)

American Logging Tool Co., 150 Michigan av,
Avery & Co., Portland, Ore. Chicago, Ill.
Branch Saw Co., St. Louis, Mo.
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index. end of book)
Champion Tool & Handle Co., Evart, Mich.
**CLYDE IRON WORKS (Logging** Only), Duluth, Minn. (See adv. index & branch offices, end of book)
Columbus Handle & Tool Co., Columbus, O.
Evart Tool Co., Evart, Mich.
Gerlach, Peter Co., Cleveland, O.
Grays Harbor Iron & Steel Co., Hoquiam, Wash.
International Endless Chain Saw Co., 34 University pl, New York
Morley Bros. (Inc.) ("Blue Line"), Saginaw,
Northwestern Mfg. Co., Duluth, Minn. Mich.
Oshkosh Mfg. Co., Oshkosh, Wis.

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Remick, A. R., Kelso, Wash.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Simonds Mfg. Co., New Orleans, La.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Warren Axe & Tool Co. ("Bull Dog"), Warren, Pa.

## 12244—Tools (Machinists' Hand)
(See Specific Article Required; also Machinists' Tools & Supplies)

## 12245—Tools (Manual Training)
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)

## 12246—Tools (Marble Workers')
(See Tools, Granite & Stone Cutters')

## 12247— Tools (Masons')
Brunner & Lay, 570 W Polk, Chicago, Ill.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Phillips, F. & Son, Baltimore, Md.
Racky & Son Iron Works, 2718 Wentworth av, Chicago, Ill.

## 12248—Tools (Metal Workers')
(See Specific Article Required)

## 12249—Tools (Milling Machine)
Brown & Sharpe Mfg. Co., Providence, R. I.
Owen Machine Tool Co. (Tool Sets), Springfield, O.
Pratt & Whitney Co., Hartford, Conn.

## 12249a—Tools (Millwrights')
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 12250— Tools (Mining)
Beall Bros. (Inc.), ("Old Alton"), Alton, Ill.
Cyclone Machine Co., Pittston, Pa.
**FAIRBANKS, MORSE & CO., 4S1** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fulton Tool W'ks ("Fulton"), Canal Fulton, O.
Funk Bros. Mfg. Co. (Coal), Chicago Heights, Ill.
Hardsocg, Martin Co., N S, Pittsburg, Pa.
Iwan Bros., South Bend, Ind.
Leetonia Tool Co., Leetonia, O.
**PITTSBURG SHOVEL CO., Oliver** bldg, Pittsburg, Pa. Works, Leechburg, Pa. (See adv. index, end of book)
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Progressive Mercantile & Mfg. Co., Pana, Ill.
What Cheer Tool Co. ("What Cheer"), What Cheer, Ia.

## 12251—Tools (Mitreing)
Carver Tool Works, Spring Valley, N. Y.
Waverly Mfg. Co. ("Nolan"), Waverly, Minn.

## 12252—Tools (Molders')
Barnett, Oscar Foundry Co. ("Monk's"), Newark, N. J.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Dobson, Wm., Canastota, N. Y.
Federal Foundry Supply Co., Cleveland, O.
Monk, Chas., 83 18th, Brooklyn, N. Y.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)
Peninsular Tool & Specialty Co., Detroit, Mich.
Whitehead Bros. Co., 537 W 27th, New York

## 12253— Tools (Nailing)
Pearson Mfg. Co. ("Pearson" Hand Nailer), Robbinsdale, Minn.

## 12254— Tools (Packing)
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Matteson & Drake, 17 Battery pl, New York
Mound Tool & Scraper Co. (& Scraping), St. Louis, Mo.
**STRONG MACHINERY & SUPPLY CO.,** (Lightning & Improved Old Style), 48 Franklin, New York. (See adv. index, end of book)
Vaughn & Bushnell Mfg. Co. ("V. & B." Hook, or Screw Pattern), 2130 Carroll av, Chicago, Ill.

## 12255—Tools (Paper Hangers')
Ridgely Trimmer Co., Springfield, O.
Standard Trimmer Co., Springfield, O.

## 12256— Tools (Parting)
Swan, James Co. (For Wood Turners), Seymour, Conn.
White, L. & I. J. Co. ("Turner's"), Buffalo, N. Y.

## 12257— Tools (Paving)
(See also Tools, Concrete Finishing; also Tools, Asphalt Paving)
Ames Plow Co., Quincy Hall, Boston, Mass.
Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
**CRESCENT NOVELTY MFG. CO.** ("Crescent" & "Maurer's" Granitoid Sidewalk), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Hauck, Wm. J. (Concrete, etc.), Kansas City, Mo.
**Kramer Bros. Foundry Co., Dayton, O.**
Phillips, F. & Son, Baltimore, Md.
**Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.**
**Trow & Holden, Barre, Vt.**

## 12257a—Tools (Pearl Turning)
Dessau, David & Bros. (Diamond), 180 B'way, New York

## 12258— Tools (Pitching)
**Anderson, W. H. Tool Supply Co., 14 Macomb, Detroit, Mich.**
**Atha Tool Co., Newark, N. J.**
**CRESCENT NOVELTY MFG. CO., 703** S B'way, St. Louis, Mo. (See adv. index, end of book)
Evansville Tool Works, Evansville, Ind.
**Mack & Co., Rochester, N. Y.**
Phillips, F. & Son, Baltimore, Md.
Plumb, Fayette R. (Inc.), Fkd., Phila., Pa.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## Tools (Planer)
(See Tools, Lathe & Planer)

## 12259—Tools (Plasterers')
Braunsdorf-Mueller Co., Elizabeth, N. J.
Story, Herbert (Aluminum Plasterers' Hocks, etc.), 23 Duane, New York

## 12260—Tools (Plumbers' & Tinners')
Anderson, W. H. Tool Supply Co., 14 Macomb, Detroit, Mich.
Barnes Tool Co. (For Plumbers & Steam Fitters Only), New Haven, Conn.
Berger Bros Co. (Tinners, Roofers, etc.), 237 Arch, Phila. Pa
**BERNZ, OTTO, S 13th & S Orange av,** Newark, N. J. (See adv. index, end of
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
Carver Tool Works, Spring Valley, N. Y.
**Fleck Bros. Co. ("K. Korkers"), 50 N 5th,** Phila., Pa.
Johnson, W. (Hedenberg W'ks), Newark, N. J.
**MERCHANT & EVANS CO. (Inc.)** (Tinners' Tools & Machines), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mueller, H. Mfg. Co., Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**NIAGARA MACHINE & TOOL WKS.,** (Tinners' Only), Buffalo, N. Y. (See adv. index, end of book)
S. & I. Co. ("Never Break", Plumbers Calking Tools, etc.), Springfield, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

## Tools (Pneumatic)
(See Pneumatic Tools)

## 12261— Tools (Pump)
Brown, Harold J., 120 Liberty, New York
Mack & Co., Rochester, N. Y.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

## 12262—Tools (Rail Bonding)
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**FAIRBANKS, MORSE & CO., 4S1** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Lord Electric Co. ("Lord" Tools, Soldering Torches, etc.), 213 W 40th, New York

## 12263—Tools (Railroad Track)
Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Buda Co., Railway Exch bldg, Chicago, Ill.
Columbus Forge & Iron Co., Columbus, O.
**FAIRBANKS, MORSE & CO., 4S1** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co., 212 N 3d, St. Louis, Mo.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Isele, A. W. & Son, Boston, Mass.
Jones & Laughlin Steel Co. (Ltd.), Pittsburg, Pa.
Klein, Logan Co., Pittsburg, Pa.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Ohio Brass Co., Mansfield, O.
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Plumb, Fayette (Inc.), Fkd, Phila., Pa.
Sheffield Car Co., Three Rivers, Mich.
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
Union Drop Forge Co., 358 W Indiana, Chicago, Ill.
Verona Tool Works, Pittsburg, Pa., & Verona, Pa.
Western Tool & Forge Co., Brackenridge, Pa.

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## 12263a—Tools (Ranchman's)
Crescent Tool Co. (S Tools in One), Jamestown, N. Y.

## 12264— Tools (Rivet)
Cleveland Steel Tool Co. (Center-Cut, Side-Cut & Backing Out), Cleveland, O.

## 12265—Tools (Rock Drill Sharpening)
Evansville Tool Works, Evansville, Ind.
**FAIRBANKS, MORSE & CO., 4S1** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**INGERSOLL-RAND CO., 11 B'way, New** York. (See adv. index & branch offices, end of book)

## 12266—Tools (Roll Turners')
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**TRETHEWEY, SAM'L & CO. (Ltd.),** 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 12266a—Tools (Roofing)
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)

## 12267—Tools (Rubber Turning)
Dessau, David & Bros. (Diamond), 180 B'way, New York

## 12268—Tools (Sailmakers')
Stortz, John & Son (Peggers & Bodkins, etc.), 210 Vine, Phila., Pa.

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## 12269— Tools (Saw)
(See Specific Article Required)

## 12270— Tools (Scraping)
**BUFFUM TOOL CO. (Bearing),** Louisiana, Mo. (See adv. index & branch offices, end of book)
Osborne, C. S. & Co., Harrison, N. J.
**STRONG MACHINERY & SUPPLY Co.** (Hollow & Flat Ground for Scraping Valves, Journals, Bearings, etc.), 48 Franklin, New York. (See adv. index, end of book)

## 12271—Tools (Screw Machine)
Brown & Sharpe Mfg. Co., Providence, R. I.
Pratt & Whitney Co., Hartford, Conn.

## 12272—Tools (Ship Carpenters')
(See Adze Manufacturers; also Mallets; also Tools, Calking)

## 12273—Tools (Shoemakers')
**Harrington Cutlery Co., Southbridge, Mass.**
**Harrington, T. J., Southbridge, Mass.**
**Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.**
Hyde Mfg. Co., Southbridge, Mass.
Krieg, C. H. & Co., 110 Reade, New York
Krieg, J. K. & Co., 39 Warren, New York
Snell & Atherton, Brockton, Mass.
Richard, Stephen Co., Southbridge, Mass.

## 12274—Tools (Slaters')
Belden Machine Co., New Haven, Conn.
Emrich, Phil, Cincinnati, O.
Fulmer, J. H., Nazareth, Pa.
Galt, Jno. & Sons, 1133 B'way, New York
Isele, A. W. & Son (Hammers, Cutters, Stakes, Scratching Bars, etc.), 51 Pitts, Boston, Mass.
**NIAGARA MACHINE & TOOL WKS.,** Buffalo, N. Y. (See adv. index, end of book)
Stortz, Jno. & Son (Hammers, Rippers, Stakes, etc.), 210 Vine, Phila., Pa.

## 12275—Tools (Stone Carving, Electric)
Hanna Engineering Works ("Ajax"), 2059 Elston, Chicago, Ill.

## 12276—Tools (Stone Hand Surfacer & Cutter)
Hanna Engineering Works (Electric), 2059 Elston, Chicago, Ill.

## 12277—Tools (Tanners' & Curriers')
Baker, G. W. Machine Co., Wilmington, Del.
Emrich, Phil, Cincinnati, O.
Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.

## 12278—Tools (Thread Cutting)
Armstrong Bros. Tool Co., 339 N Francisco av, Chicago, Ill.
**ARMSTRONG MFG. CO. (Pipe & Bolt),** 278 Knowlton, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Avery, Wm. & Co. ("Universal"), Foxboro, Mass.
Billings & Spencer Co. (& Diamond Point), Hartford, Conn.
Conant & Donelson Co. ("Little David," Screw Cutting), Conway, Mass.
Hart Mfg. Co. ("Duplex"), Cleveland, O.
Kelly, P. J. ("Climax"), Elizabeth, N. J.
Modern Tool Co. (Spring), Erie, Pa.
O. K. Tool Holder Co., Shelton, Conn.
Pratt & Whitney Co., Hartford, Conn.
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
Rogers, John M. Works ("McCanna's" Patent), Gloucester City, N. J.
Tucker, W. W. & C. F., Hartford, Conn.
Union Caliper Co. ("Hill"), Orange, Mass.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Western Tool & Mfg. Co. (Spring & Solid Holder), Springfield, O.

## 12279— Tools (Toy)
**ARCADE MFG. CO. (Iron & Wood),** Freeport, Ill. (See adv. index, end of book)
Wrightsville Hardware Co., Wrightsville, Pa.

## Tools (Track)
(See Tools, Railroad Track)

## 12280—Tools (Turpentine)
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Evansville Tool Works, Evansville, Ind.
Warren Axe & Tool Co., Warren, Pa.

## 12281—Tools (Watchmakers' & Jewelers')
American Watch Tool Co., Waltham, Mass.
Bullock Mfg. Associates, Springfield, Mass.
Chicago Watch Tool Co., 1956 Grand av, Chicago, Ill.
Coats, Fred. R., Springfield, Ill.
Dixon, Wm. (Inc.), 39 John, New York
Hardinge Bros., 3135 N Lincoln av, Chicago, Ill.
Job, Frederick, Wilkes-Barre, Pa.
Kendrick & Davis, Lebanon, N. H.
Koch, Alfred S., Lancaster, Pa.
Langelier Mfg. Co., Providence, R. I.
Leiman Bros., 62 John, New York
McWilliams, Thos., Providence, R. I.
Mann, Chas. A., Providence, R. I.
Marsh, Frank G., Waltham, Mass.
Morgan, Edward, Newark, N. J.
Moseley Lathe Co., Elgin, Ill.
Oliver, W. W. Mfg. Co., 1483 Niagara, Buffalo, N. Y.
Rivett-Lathe Mfg. Co., Brighton, Boston, Mass.
Standard Machinery Co., Providence, R. I.
Stehman & Swan Mfg. Co., Lancaster, Pa.
**STARK TOOL CO., Waltham, Mass.** (See adv. index, end of book)
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Thurston Mfg. Co., Providence, R. I.
Waltham Watch Tool Co., Springfield, Mass.

## 12281a—Tools (Wire Splicing)
Smith, Otis A. (For Splicing Wire Fence, Telephone Wire, etc.), Rockfall, Conn.

## 12282—Tools (Wood Turning)
Carroll-Jamieson Mach. Tool Co., Batavia, O.
Oliver, W. W. Mfg. Co., Buffalo, N. Y.
Swan, Jas. Co. (Parting), Seymour, Conn.

## 12283—Tools (Woodworkers')
(See Specific Article Required)

## 12284— Tools (Yarning)
(See also Tools, Calking)
Atha Tool Co., Newark, N. J.
**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)
S. & I. Company ("Never-Break"), Springfield, Mass.

## 12285— Tooth Pick Mfrs.
Berst Mfg. Co., Saginaw, Mich.
Crunden-Martin Woodenware Mfg. Co. ("Maple Leaf"), St. Louis, Mo.
Cutter-Tower Co., 184 Summer, Boston, Mass.
Forster, Chas. (Est. of), Dixfield, Me.
Forster Mfg. Co., Dixfield, Me.
Gem Toothpick Co., Adrian, Mich.
National Toothpick Co., Delray, Mich.
Peirce, W. E. & Co., Milford, N. H.
Perfection Mfg. Co., River Rouge, Mich.

## 12286—Tops (Automobile & Vehicle)
American Top Co., Jackson, Mich.
Anderson, F. W. & Co., 1419 Montrose, Phila., Pa.
Aronoff, Jos. J., Trenton, N. J.
Automobile Equipment Co., Detroit, Mich.
Automobile Top & Trimming Works (Automobile), Columbus, Ohio
Baltimore Buggy Top Co., 700 Penna av, Baltimore, Md.
Barndt-Johnston Auto Supply Co., Columbus, O.
Bauer Bros. Mfg. Co., 939 W 8th, Cincinnati, O.
Bohnet, Jno. & Co., Lansing, Mich.
Buob & Schen, 410 E. Court, Cincinnati, O.
Cartier, Chapman & Co., Lexington, Mich.
Columbus Buggy Co., Columbus, O.
Detroit Carriage Co., Detroit, Mich.
Detroit Motor Supply Co., Detroit, Mich.
Duane, W. J. & Co., 40 W 60th, New York
Dunham, D. B. & Son, Rahway, N. J.
Dusenberg, Louis, 86 Worth, New York
Empire Gear & Top Co., 413 N 22d, Phila., Pa.
Everitt, B. F., Clay & Dequindre, Detroit, Mich.
Faeth Iron Co., Kansas City, Mo.
Flint Auto Top Co., Flint, Mich.
Halliday, C. A., Oneida, N. Y.
Hill Mfg. Co., 23 Fuller, Buffalo, N. Y.
Indianapolis Dash Co., 2116 S Meridian, Indianapolis, Ind.
Johnson & Johnson, 610 E Lombard, Baltimore, Md.
Kenyon Mfg. Co., Waukesha, Wis.
Keystone Wagon Works Co., Reading, Pa.
Kimball, C. P. & Co., 315 Michigan av, Chicago, Ill.
Kroh, C. Z. Mfg. Co., Toledo, O.
London Auto. Supply Co., 1229 Michigan av, Chicago, Ill.
McClellan, Chas. P., Fall River, Mass.
Manhattan Auto Top Co., 221 W 64th, New York
Meyer, C. G., Main & Ann, Tiffin, O.
Michigan Top Co., 17 Duffield, Detroit, Mich.
Morton, Rob't E., 26 South, New York
Myers Automobile Top Co., Dayton, O.
Rands Mfg. Co., Detroit, Mich.
Ratterman & Luth, 1911 W 5th, Cincinnati, O.
Roth, Jacob, Erie, Pa.
Schubert Bros. Gear Co., Oneida, N. Y.
Shelter Top Co., 1240 N Main, St. Louis, Mo.
Sprague Umbrella Co. ("Sprague"), Norwalk, Ohio
Springfield Auto Top & Upholstering Co., Springfield, Mass.
Springfield Metal Body Co., Springfield, Mass.
Teel, E. & Co., Medford, Mass.
Troy Carriage Sun Shade Co., Troy, O.
Vehicle Apron & Hood Co., Columbus, O.
Vehicle Top & Supply Co., 900 Case av, St. Louis, Mo.
Weiss, Charles & Son, 4800 Cottage Grove av, Chicago, Ill.

## 12287—Tops (Blast Furnace)
Brighton Fire Brick Co., New Brighton, Pa.

## 12288—Tops (Molasses Jug)
Ohio Lantern Co., Tiffin, O.

## 12289— Tops (Pole)
(For Arc Lamps & Electric Railway Poles)
Ajax Line Material Co. (Arc Lamp), So Milwaukee, Wis.
Anderson Albert & J. M. Mfg. Co. (Electric Railway), Boston, Mass.
**ANDERSON FORGE & MACHINE CO.** (Street Railway), Detroit, Mich. (See adv. index & branch offices, end of book)
Cutter, Geo. Co. (Arc Lamp), South Bend, Ind.
Electric R'y Equipment Co. (Arc Lamp & Elec. Railway), Cincinnati, O.
Fletcher Mfg. Co., Dayton, O.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Morris Iron Co. (Street Railway), 90 West, New York. Works: Frederick, Md.
Ohio Brass Co. (Street Railway), Mansfield, O.
Therien Tool Works, Minneapolis, Minn.

## 12290—Tops (Tin, Screw)
Ohio Lantern Co. (Sugar Shaker, Salt & Pepper, etc.), Tiffin, O.

## 12291—Torches (Alcohol)
(See also Furnaces, Gasoline Blast)
**BERNZ, OTTO ("Always Reliable"),** 21 Ashland av, Newark, N. J. (See adv. index, end of book)
Clayton & Lambert Mfg. Co., Detroit, Mich.
Knapp Mfg. Co. (Self Acting), 20 Warren, New York
Osborne, C. S. & Co., Harrison, N. J.
Roberts, H. C. Electric Supply Co., 905 Arch, Phila., Pa.
Turner Brass Works ("Wilson," "Gem"), Sycamore, Ill.

## Torches (Brazing)
(See Blow Pipes & Brazing Apparatus)

## 12291a—Torches (Car Inspectors')
**WILSON, F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)

## 12292—Torches (Cast Iron)
Forest City Foundry & Mfg. Co., Cleveland, O.

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## 12292a—Torches (Electric)

Bogart, A. L., 123 Liberty, New York

## 12293—Torches (Engine)

(See Torches, Hand)

## 12294—Torches (Factory, Acetylene)

**MACLEOD, WALTER & CO. (Oil or** Gasoline), 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 12295—Torches (Factory & Mine)

American Stove Co. ("Reliable" Oil & Vapor), St. Louis, Mo., & Cleveland, O.
Clayton & Lambert Mfg. Co. (Gasoline), Detroit, Mich.
Forest City Foundry & Mfg. Co., Cleveland, O.
Gem Mfg. Co. ("Gem", Heavy Brazed Steel), Pittsburg, Pa.
Hauck Mfg. Co., 140 Cedar, New York
Turner Brass Works, Sycamore, Ill.
Wall, P. Mfg. Supply Co. (Brazed Steel), N S, Pittsburg, Pa.

## 12296—Torches (Gas Lighting)

Houchin, Thos. W. Co., 318 B'way, New York

## Torches (Gasoline, Etc.)

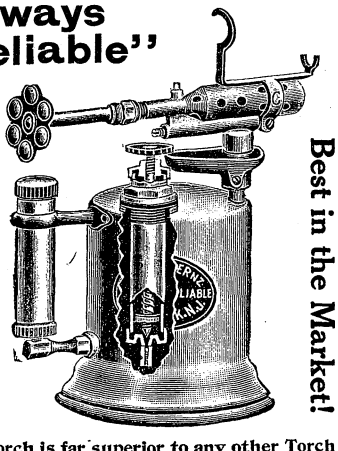
(See Torches, Gasoline Blow)

## 12297—Torches (Gasoline Blow)

(See also Furnaces, Gasoline Blast)

American Stove Co. ("Reliable," "Dangler," "Quick Meal," "Jewell"), St. Louis, Mo.
Ashton Mfg. Co. ("Red Hot"), Newark, N. J.
**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
**BERNZ, OTTO ("Always Reliable,"** "Vulcan" & "Galloway"), 21 Ashland av, Newark, N. J. (See adv. index, end of book)


"Always Reliable"



Our No. 25 Torch

Best in the Market!

This Torch is far superior to any other Torch with pump in body; having in addition to the regular automatic cork check a positive shut-off by screwing down pump plunger, which closes the needle valve in bottom of pump. Patented. Packed one in wooden box, properly labeled. Write for our Catalog No. 20, on Furnaces and Torches, also Catalog No. 5 on Plumbers' Tools, etc.

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Best Lamp Co., Canton, O.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Bridgeport Brass Co. ("Vulvan," "Queen"), Bridgeport, Conn.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Decker & Gries ("Phoenix"), Newark, N. J.
Diener, G. W. Mfg. Co. ("Torrid"), 400 Monticello av, Chicago, Ill.
Emmelmann Bros. Mfg. Co. (Gasoline Soldering Iron & Blow Torch), Indianapolis, Ind.
Gefrorer, C. & Son, 248 N 8th, Phila., Pa.
Globe Brass Works, Detroit, Mich.
Globe Light & Heat Co., Chicago, Ill.
Hauck Mfg. Co., 140 Cedar, New York
Hine-Watt Mfg. Co. ("Marion"), Chicago, Ill.
Hull, J. S. Mfg. Co., Baltimore, Md.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Johnson, Wm. ("Hedenberg Works") (Plumbers'). Newark, N. J.
Knapp Mfg. Co., 20 Warren, New York
**MACLEOD, WALTER & CO. ("Buck-**eye"), 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Mossberg, Frank Co. ("Diamond"), Attleboro, Mass.
National Cement Mfg. Co., Toledo, Ohio
Quadriga Mfg. Co. ("Walters"), 119 N Canal, Chicago, Ill.
Sun Vapor Street Light Co., Canton, O.
Turner Brass Works ("Hot Blast," "Bull Dog," "Franklin," "Kinzie," "Jewell," "Mogul," "Old Reliable," "Champion"), Sycamore, Ill.
Volcano Torch & Mfg. Co., Erie, Pa.

## 12298—Torches (Hand)

Dayton Malleable Iron Co. (Made Entirely of Malleable Iron), Dayton, O.
Deverell Perfection Mfg. Co., 36 Bridge, Brooklyn, N. Y.
Dressel Railway Lamp Works (Engineers' Track, Wipers', Boilermakers', Car Inspectors, etc.), 3860 Park av, New York
Forest City F'dry & Mfg. Co., Cleveland, O.
Gem Mfg. Co. ("Gem", Heavy Brazed Steel), Pittsburg, Pa.
Gray, Peter & Sons, Cambridge, Mass.
Hauck Mfg. Co., 140 Cedar, New York
Hero Mfg. Co. (Copper Plated Steel Inspectors & Locomotive), Gaul & Adams, Phila., Pa.
Johnson Mfg. Co. (Locomotive, etc.), Urbana, O.
Knapp Mfg. Co. (Locomotive, etc.), 20 Warren, New York
McClintock & Irvine Co. ("M. & I." Sheet & Brazed Steel), Pittsburg, Pa.
Noera Mfg. Co. (Inspectors' & Locomotive), Waterbury, Conn.
Wall, P. Mfg. Supply Co. (Brazed Steel, Pyramid Chain, Top Burner & Factory), Pittsburg, Pa.
**WILSON, F. CORTEZ & CO. (Loco-**motive, Railroad, etc.), 29 Lake. Chicago, Ill. (See adv. index, end of book)

## 12298a—Torches (Heavy Metal Heating)

**ROCKWELL FURNACE CO., 26 Cort-**landt, New York. (See adv. index, end of book)

## 12299—Torches (Kerosene Blow)

Barthel Blow Lamp Co., Boston, Mass.
**BERNZ, OTTO ("Always Reliable"),** Newark, N. J. (See adv. index, end of book)
Hauck Mfg. Co., 140 Cedar, New York
McClintock & Irvine, Pittsburg, Pa.
Turner Brass Works ("Hot Blast"), Sycamore, Ill.

## 12300—Torches (Locomotive)

(See Torches, Hand)

## 12301—Torches (Malleable Iron)

Dayton Malleable Iron Co., Dayton, O.
Hammer & Co., Branford, Conn.
Huebel Mfg. Co., Newark, N. J.
Tower & Lyon Co., 95 Chambers, New York

## 12302—Torches (Plumbers')

(See Torches, Various Kinds)

## 12303—Torches (Shop)

(See Torches, Hand)

## 12304—Torches (Wall)

Ashton Mfg. Co. ("Red Hot" Gasoline), Newark, N. J.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Turner Brass Works, Sycamore, Ill.

## 12305—Torpedoes

Backes, Michael Sons, Wallingford, Conn.
Clarendon Torpedo Co., Titusville, Pa.
Eagle Novelty Co. (Torpedoes & Caps), Gloucester, N. J.
Granite Railway Signal Co., Pittsburg, Pa.
Hall's, Ellis Sons Co., Knox, Pa.
Hunt, Edmund S. & Sons, Weymouth, Mass.
Kansas Torpedo Co., Chanute, Kans.
Kuhn, J. R. Torpedo Co., Parkersburg, W. Va.
Marietta Torpedo Co., Marietta, O.
Producers Torpedo Co., Marietta, O.
Western R'y Signal Co. ("Red-Fire"), Fostoria, O.

## 12306—Torpedoes (Toy)

Backes, Michael Sons, Wallingford, Conn.
Hunt, Edmund S. & Sons, Weymouth, Mass.

## 12307—Torpedoes & Fuses (Railway Signal)

Acme Railway Signal & Mfg. Co., Peoria, Ill.
Backes, Michael Sons, Wallingford, Conn.
Columbia Railway Signal Co., Fostoria, O.
Hopewell Railroad Signal Co., Boston, Mass.
Jackson's, Sam'l Sons, 1129 S 15th, Phila., Pa.
Sherbourne & Co., Boston, Mass.
United States Railway Signal Co., Fostoria, O.
Versailles Railway Signal Co. (Railway Signal), Pittsburg, Pa.
Western Railway Signal Co. (Red Fire), Fostoria, O.

## 12308—Tow

Ashland Flax Mill Co., Ashland, O.
Blehdon, V. R., Buffalo, N. Y.
Coleman, M. R., New London, O.
Keogh, John W. & Co., 29 W Kinzie, Chicago, Ill.
Minnesota Fibre Co., Heron Lake, Minn.
Wallace, J. I., Jackson, Minn.

## 12309—Towel Bars & Shelves (Plate Glass)

Anderson, Geo. H. & Co., 1458 W Kinzie, Chicago, Ill.

## Towers (Bell & Observation)

(See Tanks & Towers, Steel)

## 12310—Towers (Cement Cooling)

United Iron Works Co., Springfield, Mo.

## 12311—Towers (Chemical)

Bethlehem Foundry & Machine Co. (Grover & Gay Lussac & Broome Exhaust), South Bethlehem, Pa.

## 12312—Towers (Hoisting, for Coal & Ore)

(See also Coal & Ore Handling Machinery)
Conveying Machinery Co., 120 Liberty, New York
**HAYWARD CO., THE (Incline,** Steeple & Traveling), 50 Church, New York. (See adv. index, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Milholland, J. & J. B. Co., 718 5th av, Pittsburg, Pa.
Robbins Conveying Belt Co., 13 Park pl, New York

## Towers (Steel)

(See Tanks & Towers, Steel)

## 12313—Towers (Water Cooling)

Alberger Pump Co., 140 Cedar, New York
Baragwanath, Wm. & Son, 1260 W Division, Chicago, Ill.
Burhorn Edwin ("Burhorn," "Acme"), 71 Wall, New York
**CANTON BOILER & ENGINEERING** Co., Canton, O. (See adv. index, end of book)
Connery & Co., 9th & Master, Phila., Pa.
**GRAVER, WM. TANK WORKS, East Chi-**cago, Ind. (See adv. index & branch offices, end of book)
Hart, B. F., Jr. & Co., 143 Liberty, New York
International Steam Engineering Co. ("Jennison"), Atlanta, Ga.

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**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Ruemmel-Dawley Mfg. Co. ("Graders"), 3900 Choteau av, St. Louis, Mo.
Stocker, Geo. J. (Fanless), 2836 Victor, St. Louis, Mo.
Wheeler, C. H. Mfg. Co. ("Wheeler-Pratt"), Lehigh & N. 18th, Phila., Pa.
**WHEELER CONDENSER & ENGI-**neering Co. ("Wheeler-Barnard"), Carteret, N. J. (See adv. index & branch offices, end of book)
**WORTHINGTON, HENRY R., B'way** & Cedar, New York; Works: Harrison, N. J. (See adv. index & branch offices, end of book)
Zies, Chas. & Sons, Baltimore, Md.

## 12313a— Toy Banks

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Boston Pressed Metal Co. (Also Household Banks), Worcester, Mass.
Burdick-Corbin Co. (Cash Registering), Detroit, Mich.
Burns, W. F. Co., 164 Dearborn, Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Columbia Grey Iron Co., Columbia, Pa.
**GLOBE MACHINE & STAMPING CO.,** Cleveland, O. (See adv. index, end of book)
Grab, Victor M. & Co. ("Grab's" Keyless Basket & "Good Luck"), Ashland blk, Chicago, Ill.
Hubley Mfg. Co., Lancaster, Pa.
National Recording Safe Co. (Recording), 55 State, Chicago, Ill.
Nicol & Co., 218 N Jefferson, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Williams, A. C. Co., Ravenna, O.
**WORCESTER PRESSED STEEL CO.** (Pressed Steel), Worcester, Mass. (See adv. index & branch offices, end of book)

## 12314— Toys (Electric)

(See also Motors, Battery)

Carlisle & Finch Co., Cincinnati, O.
Diamond Electric Co., Warren, O.
Green Electrical Mfg. Co., Chicago, Ill.
Heinrich Electrical Novelty Co., 192 Fulton, Brooklyn, N. Y.
Howard Miniature Lamp Co., Newark, N. J.
Ithaca Electric Novelty Co., Ithaca, N. Y.
Kendrick & Davis, Lebanon, N. H.
Knapp Electric & Novelty Co. ("Electric Questioner"), 511 W 51st, New York
Lionel Mfg. Co., 4 White, New York
Ohio Electric Works, Cleveland, O.
Rhode Island Telephone & Electric Co. ("Baby Dynamo"), Providence, R. I.
Russell Electric Co. ("Memiphone"), Danbury, Conn.
Universal Novelty Co. (Magic Lanterns), 163 W 29th, New York
Voltamp Electric Mfg. Co., Baltimore, Md.

## 12315—Toys (Iron & Steel)

American Toy & Novelty Mfg. Co., 216 W Indiana, Chicago, Ill.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Central Stamping Co. (Tin, etc.), 174 Fulton, New York
Hardware & Woodenware Mfg. Co., 693 B'way,
Hubley Mfg. Co., Lancaster, Pa. New York
Ingersoll, Robt. H. & Bro., 45 John, New York
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Ives Mfg. Corp'n (Cars, Locomotives, Houses. Fire Engines, etc.), Bridgeport, Conn.
Kraus, Emil H., 140 B'way, Cleveland, O.
Lodge Mfg. Co., So Pittsburg, Tenn.
Rollman Mfg. Co., Mount Joy, Pa.
Stevens, J. & E. Co., Cromwell, Conn.
Weeden Mfg. Co., New Bedford, Mass.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hdw. Co., Wrightsville, Pa.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 12316— Toys (Rubber)

Faultless Rubber Co. (Balloons, Balls, etc.), Ashland, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)

## 12317—Toys & Novelties

American Doll & Toy Mfg. Co., 49 W 13th, New York
American Metal Wheel & Toy Co., Toledo, O.
American Toy & Novelty Mfg. Co., 216 W Indiana, Chicago, Ill.
Bevin Bros. Mfg. Co., Easthampton, Conn.
Bogert & Hopper Co. (Wooden), 162 William, New York
Borgfeldt, Geo. & Co., 16th & Irving pl, New
Bradley, Milton Co., Springfield, Mass. York
Bregwoodkro Stamping & Mfg. Co. ("Echo," Telephone), Lorain, O.
Butler, Otis P. (Wood), West Ridge, N. H.
California Notion & Top Co., San Francisco,
Carriage & Toy Co., Baltimore, Md. Cal.
Cincinnati Time Recorder Co. (Toy Printing Presses), Cincinnati, O.
Clark, D. P. & Co., Dayton, O.
Columbia Grey Iron Co., Columbia, Pa.
Converse & Co., Winchendon, Mass.
Craw, Wm. N., South Norwalk, Conn.
Dayton Pattern & Model Works, Dayton, O.
Denison Mfg. Co. (Electrical & Mechanical Toys), Warren, O.
Eliesac Mfg. Co., Castile, N. Y.
Elm City Mfg. Co., New Haven, Conn.
Estes, E. B. & Sons (Wooden), 74 Warren,
Fanner Mfg. Co., Cleveland, O. New York
Garton Toy Co., Sheboygan, Mich.
Gibbs Mfg. Co., Canton, O.
Gilbert, A. & Sons (Wood), Derby, Conn.
Gong Bell Mfg. Co., Easthampton, Conn.
Granite State Mfg. Co., Concord, N. H.
Hampden Toy Co., Westfield, Mass.
Hammond, J. T. & Son, 4334 Hedge, Phila., Pa.
Hardware & Woodenware Mfg. Co. (Iron), 693 B'way, New York
Hill Brass Co., Easthampton, Conn.
Horsman, E. & Co., 365 B'way, New York
Ingersoll, Rob't H. & Bro., 45 John, New York
Instructive Toy Co., 477 40th, Milwaukee, Wis.
Iowa Farming Tool Co., Fort Madison, Iowa
Kindenrgarten Toy Co., Indianapolis, Ind.
Kirby Mfg. Co., Middletown, Conn.
Kirk-Latty Mfg. Co. (Wheelbarrows, etc.), Cleveland, O.
Knapp Electric & Novelty Co., 511 W 51st, New York
Lionell Mfg. Co., 4 White, New York
Mace, L. H. & Co., 111 E Houston, New York
Meinecke, Adolp & Son (Wooden Hobby Horses, etc.), Milwaukee, Wis.
Murphy Mfg. Co., Stamford, Conn.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Nashau Novelty Works, Nashua, N. H.
National Advertising Co. (Wooden), Seneca Falls, N. Y.
Neinseke, Adolph & Son, Milwaukee, Wis.
New England Lock and Hinge Co. (Toy Hardware), Winchendon, Mass.
New Haven Toy & Game Co., New Haven,
Novelty Mfg. Co., Manchester, Conn. Conn.
Osgood Toy Co., Manchester, N H
Pidget Novelty Co., 265 B'way, New York
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Reading Hardware Co., Reading, Pa.
Rockwell, Jno. L., Monroeton, Pa.
Rollfsn Mfg. Co., Mount Joy, Pa.
Richmond Cedar Works, Richmond, Va.
Runnels, E. A. & Co., Boston, Mass.
Scheler, Geo., Dumont, N. J.
Schlesinger, Leo & Co., 372 South, New York
Schoenhut, A. Co. (Pianos, Guns, Sail Boats, Shooting Galleries, Soldier Equipments, Circus Toys, etc.), Adams & Sepolva, Phila., Pa.
Schultz Novelty Co., 132 Nassau, New York
Shanafelt Mfg. Co. (Mechanical), Canton, O.
South Bend Toy Mfg. Co. (Game Boards, Croquet, Baseball Bats, Doll Cabs, Gocarts, etc.). South Bend, Ind.
Schulze, Thos. Sons, Cleveland, O.
Shimer, Wm. Son & Co., Freemansburg, Pa.
Short Mfg. Co., North East, Pa.
Sidney Novelty Co. (Wooden), Sidney, N. Y.
Stowel Co., Putney, Vt.
Teischman, Richard, 85 Water, New York
Thomas-Peter Co. ("National, Indoor Base Ball Game"), Canton, O.
Toledo Metal Wheel Co. (Automobiles, Carriages & Tricycles), Toledo, O.
Toledo Carriage Woodwork Co., Toledo, O.
Travers, G. W., 10 Grand, New York
Wells Bros. & Co., Greenfield, Mass.
Whitney Reed Chair Co., Leominster, Mass.

## 12318—Tracing Cloth Powder

**ELLIOTT, B. K. CO., 108 6th, Pitts-**burg, Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi-**cago, Ill. (See adv. index, end of book)
San Francisco, Cal.
**SOLTMANN, E. G.**
(Also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 12319—Tracing Cloth & Paper

Cardinell-Vincent Co. (Vellum Tracing Paper), San Francisco, Cal.
**ELLIOTT, B. K. CO., 108 6th, Pitts-**burg, Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monad-**nock blk, Chicago, Ill. (See adv. index, end of book)
**HARDTMUTH, L. & C. ("Koh-I-**Noor"), 34 E 23d, New York. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing-**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi-**cago, Ill. (See adv. index, end of book)
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of Regina Mfg. Co., East Greenwich, R. I. book)
St. George, Henry V. (Inc.), 8 Grand, New York
**SOLTMANN, E. G.**
(Use "Trans-Printa" for increasing the Transparency of Old Tracings & Drawings to be Blue Printed), 134 W 29th, New York. (See adv. index, end of book)

## 12320—Track Movers (Railway)

Mann-McCann Co. ("Greese"), Fisher bldg, Chicago, Ill.

## Track Sanders

(See Locomotive Sanders)

## Track Sprinklers

(See Cars, Sprinkling, Street Railway)

## 12321—Tracking (Slaughter House)

Brecht, Gus. V. Butchers' Supply Co. (Overhead), 1201 Cass av, St. Louis, Mo.

## 12321a—Tracks (Cast Iron Plate)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12322—Tracks (Door Hanger)

McKinney Mfg. Co. (For Barn Doors), N S, Pittsburg, Pa.
**MYERS, F. E. & BRO. ("Myers O.** K.," "New-Way" & "Tubular Girder"), Ashland, O. (See adv. index & branch offices, end of book)
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
Porter, J. E. Co. (For Barn Doors), Ottawa, Ill.

## 12323—Tracks (Hay Carrier)

Hunt, Helm, Ferris & Co. ("Star" Steel & Wood), Harvard, Ill.
**MYERS, F. E. & BRO. (Double Rail** & Single Rail), Ashland, O. (See adv. index & branch offices, end of book)
Ney, V. L. Co., Canton, O.
Ohio Farmers' Hay Tool Co., Canton, O.
Strickler Hay Tool Co. ("Strickler" Steel), Janesville, Wis.

## Tracks (Portable)

(See Railways, Industrial & Portable)

## 12324— Trains (Roll)

Danville Fdry. & Mach. Co., Danville, Pa.
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
Lewis Foundry & Machine Co., Groveton, Pa.
Morgan Construction Co., Worcester, Mass.
United Engineering & Foundry Co., Pittsburg, Pa.

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## 12325— Trammels

Massachusetts Tool Co., Greenfield, Mass.
Huebel Mfg. Co., Newark, N. J.
Sawyer Tool Co., Fitchburg, Mass.
**STARRETT, L. S. CO. (Extension** Beam, etc.), Athol, Mass. (See adv. index & branch offices, end of book)

## Tramrails

(See Trolleys & Trolley Tracks, Overhead)

## 12326—Tramways (Gravity)

Hallidie Company (For Ore, etc.), Spokane, Wash.

## Tramways & Trolleys

(See Trolleys & Trolley Tracks, Overhead; also Wire Rope Tramways)

## 12327—Trans-Printa for Increasing the Transparency of Tracings

**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. (See adv. index, end of book)

**SOLTMANN, E. G**

(Prints Can be Made from Prints & Increase the Output of the Printing Apparatus), 134 W 29th, New York. (See adv. index, end of book)

## Transfer Scrolls

(See Ornaments, Transfer)

## 12328—Transfer Tables (Hand Power)

**CLEVELAND CRANE & ENGINEER**ing Co., Wickliffe, O. (See adv. index, end of book)
**GARRISON, A. FOUNDRY CO., 901** Bingham, Pittsburg, Pa. (See adv. index, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 12328a—Transfers (Endless)

**LINK BELT COMPANY ("Link** Belt"), Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)

## 12329— Transformers

Aaron Electric Co., 124 S Clinton, Chicago, Ill.
**ALLIS-CHALMERS CO., (Light &** Power), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Transformer Co. ("American," High & Low Frequency Type & Oil), Newark, N. J.
Campbell Electric Co. ("Lowvolt" for Tungsten Lamps, etc.), Lynn, Mass.
Condit Electrical Mfg. Co., Boston, Mass.
Crocker-Wheeler Co., Ampere, N. J.
Duncan Electric Mfg. Co. ("Duncan"), Lafayette, Ind.
Electric Appliance Co. ("Economy" Lamp Regulator), 701 W Jackson boul, Chicago, Ill.
Enterprise Electric Co. ("Peerless"), Warren, Ohio
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fort Wayne Electric W'ks ("Wood"), Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Hallberg, J. H., 36 E 23d av, New York
Hartman Circuit Breaker Co., Mansfield, O.
International Elec. Meter Co. (Used in Connection with Ammeters & Voltmeters), Chicago, Ill.
Kuhlman Electric Co., Elkhart, Ind.
Moloney Electric Co., 425 N 2d. St. Louis, Mo.
Packard Electric Co. ("Packard"), Warren, O.
Pittsburg Transformer Co., Pittsburg, Pa.
Richter, Eugene L., 1914 Columbia av, Phila., Pa.
Thordarson Elec. Mfg. Co., 216 S Jefferson, Chicago, Ill.
Triumph Electric Co., Cincinnati, O.
Vindex Electric Co., Aurora, Ill.
Wagner Elec. Mfg. Co. (Lighting & Motor), St. Louis, Mo.
Western Electric Co. ("Lighting," "Polential"), 500 S Clinton, Chicago, Ill., & 57 Bethune, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co. (Core & Shell Type, for Power & Light) Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12330—Transformers (Bell Ringing)

Campbell Electric Co., Lynn, Mass.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC &** Mfg. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12331—Transformers (Heat)

Central Station Steam Co. ("Detroit"), Detroit, Mich.

## 12332—Transformers (Static)

**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12333— Transits

Ainsworth, Wm. & Sons ("Brunton" Pocket), Denver, Colo.
Aloe, A. S. Co., St. Louis, Mo.
Bausch & Lomb Optical Co., Rochester, N. Y.
Beckmann, L. Co., Toledo, O.
Berger, C. L. & Sons, Boston, Mass.
**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
Iszard-Warren Co. (Inc.) ("Sterling"), 136 N 12th, Phila., Pa.
Lietz, A. Co., San Francisco, Cal.
**POST, FRED'K CO., 3635 N Hamlin** av, Chicago, Ill. (See adv. index, end of book)
Prince, L. M., Cincinnati, O.
**STARRETT, L. S. CO. (Leveling),** Athol, Mass. (See adv. index & branch offices, end of book)
Taylor Instrument Co. ("Verschoyle" Pocket, "Tycos"), Rochester, N. Y.
White, David Co. (Architects' Leveling, etc.), Milwaukee, Wis.

## 12334—Transits & Levels for Engineers

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**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washing**ton, Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)

**SOLTMANN, E. G**

(Also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 12335—Translucent Fabrics

Angier Mills, Quincy, Mass.

## 12336—Transmission (Automobile)

**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)

## 12337—Transom Adjusters

Boston Pressed Metal Co. ("Osborne" Adjuster & Lock), Worcester, Mass.

## 12338—Transplanters (Tobacco)

Case, J. I. Plow Works, Racine, Wis.
Fetzer, Wm. Co. (Also for Tomatoes, Cabbage, etc.), Springfield, Ill.
Fuller & Johnson Mfg. Co., Madison, Wis.
Garrison Bros. Co. (And Other Plants), Bridgeton, N. J.
Masters Planter Co. (Hand), 178 S Water, Chicago, Ill.
Nagley Mfg. Co. ("Onondaga" Automatic for All Kinds of Plants), Lyons, N. Y.
Ohio Rake Co. ("Tiger"), Dayton, O.
Stoddard Mfg. Co., Dayton, O.

## 12339— Trap Rock

(See also Stone, Crushed)

Ansonia Trap Rock Co., Ansonia, Conn.
Bouker Contracting Co., 21 State, New York
Boundbrook Crushed Stone Co., Boundbrook, N. J.
Clinton Point Stone Co., 115 B'way, New York
Connecticut Trap Rock Quarries, New Haven, Conn.
Cook Stone & Ice Co., Plainville, Conn.
Davis Trap Rock Quarry Co., 133 S 12th, Phila., Pa.
Delaware River Quarry & Construction Co., Jersey City, N. J.
Dyer, Jno. T. Quarry Co., Norristown, Pa., & 15th & Market, Phila., Pa.
Eureka Trap Rock Quarry Co., Richmond Hill, Boro. of Queens, N. Y.
General Crushed Stone Co., South Bethlehem, Pa., & Glen Mills, Pa.
Gray Bros. (Crushed), Hayward bldg, San Francisco, Cal.
Keenan. D. F., 721 Main, Hartford, Conn.
Lane Construction Corp'n, Meriden, Conn.
Larsen Trap Rock Co., Newark, N. J.
McKiernan & Bergin, Paterson, N. J.
Manhattan Trap Rock Co., 30 Church, New York
Middle Valley Trap Rock & Mining Co., Middle Valley, N. J.
Millburn Trap Rock Co., Millburn, N. Y.
Morris County Crushed Stone Co., Morristown, N. J.
Nyack Trap Rock Co., Nyack, N. Y.
Pierce, B. D., Jr., 122 Bank, Bridgeport, Conn.
Rockland Lake Trap Rock Co. (Crushed or Broken), 299 B'way, New York, & Rockland Lake, N. Y.
Spence Bros. Construction Co. ("Bruce"), Cleveland, O.
Storm King Stone Co., 90 West, New York
Waltham Trap Rock Co., Waltham, Mass.
West Roxbury Trap Rock Co., Grove c Centre, W R, Boston, Mass.

## 12340— Traps (Animal)

Abingdon Trap Co., Abingdon, Ill.
Animal Trap Co., Lititz, Pa.
E-Z Mfg. Co., Galesburg, Ill.
Hawkins Co., South Britain, Conn.
Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Morrison Specialty Co., Morrison, Ill.
**NIAGARA FALLS METAL STAMP**ing Works, Niagara Falls, N. Y. (See adv. index, end of book)
Oneida Community (Ltd.), Dept. G. (For All Kinds of Game), Oneida, N. Y.
Peck, Stow & Wilcox Co. ("Oneida" Pattern), Southington, Conn.
Sargent & Co. ("Oneida" Pattern), New Haven, Conn.

## 12341—Traps (Back Water)

Barrett, Jas., Mfg. Co., Boston, Mass.
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Crampton-Farley Brass Co. ("Sansealo"), Kansas City, Mo.
Edwardsville Brass Co., Edwardsville, Ill.
Miller Foundry & Specialty Co. (And Cellar Drains), North Tonawanda, N. Y.
Murphy Specialty Co. ("Murphy," Combined Catch Basin & Back Water Trap), Milwaukee, Wis.
Rolf-Martin Co. ("Martin"), Fort Wayne, Ind.
Swett, A. L. Iron Works, Medina, N. Y.

## 12342—Traps (Bath & Basin)

A. D. Mfg. Co. (Nickel Plated), Detroit, Mich.
American Pin Co., Waterbury, Conn.
American Sanitary Mfg. Co. ("American"), Abingdon, Ill.
**BLAKE SPECIALTY CO. (Iron, Lead** & Brass), 2412 3rd av, Rock Island, Ill. (See adv. index, end of book)
Autury Brass Mfg. Co., Cattaraugus, N. Y.
Bridgman Bros Co. (Brass Bennor Bath Traps), 1426 Wash'n av, Phila., Pa.
Climax Specialty Co., Ann Arbor, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Frost Mfg. Co. ("Femco"), Kenosha, Wis.
Haines, Jones & Cadbury Co. ("Hajoca" Bath), 1140 Ridge av, Phila., Pa.
Ideal Mfg. Co. (Laboratory). Detroit, Mich.
Imco Mfg. Co. (Plumbers' Brass Goods), 162 E 52d, New York
Ireland & Matthews Mfg. Co. ("Boss" & "S"), Detroit, Mich.
Kokomo Brass Works (Self-Scouring Brass Drum & Sanitary Basin), Kokomo, Ind.

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Kretschmer Mfg. Co., Dubuque, Ia.
McAuliffe Non-Syshoning Trap Co. ("McAuliffe"), Chelsea, Mass.
McCormick Mfg. Co. ("Upon Floor" Bath), Dayton, O.
Murphy Specialty Co. ("Murphy"), Milwaukee, Wis.
Scully, W. J. Ventilator & Mfg. Co. ("Scully" Self Cleaning Basin), Detroit, Mich.
Standard Brass & Iron Works ("Dale" Catch Basin), Milwaukee, Wis.
Wolverine Brass Works, Grand Rapids, Mich.

## 12343— Traps (Bear)

Independent Bridge Co., Pittsburg, Pa.

## 12344— Traps (Bell)

American Foundry & Mfg. Co., St. Louis, Mo.
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Barber Mfg. Co., Ashtabula, O.
Central Brass Mfg. Co., Cleveland, O.
Edwardsville Brass Co. (Brass), Edwardsville, Ill.
Fee & Mason, 81 Beekman, New York
Glenn Mfg. Co., St. Charles, Ill.
Haydenville Co., Haydenville, Miss.
Sanitary Co. ("Pargon"), Cleveland, O.

## 12345—Traps (Bi-Metallic Plated)

American Shot & Lead Co., St. Louis, Mo.
A. D. Mfg. Co., Detroit, Mich.

## 12346—Traps (Centrifugal)

Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

## 12347—Traps (Drainage)

**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kokomo Brass Works (Brass Floor Drain & Trap), Kokomo, Ind.
National Tube Co., Pittsburg, Pa.
Power Plant Specialty Co. ("Monarch" Vacuum), Monadnock blk, Chicago, Ill.

## 12347a—Traps (Drum)

**BLAKE SPECIALTY CO. (Iron, Lead** & Brass), 2412 3rd av, Rock Island, Ill. (See adv. index, end of book)

## 12348— Traps (Fly)

Bromwell Brush & Wire Goods Co., Cincinnati, Ohio
Cincinnati Mfg. Co., 1243 W 6th, New York
Dean, H. E. & Co., Worcester, Mass.
**MEYERS, FRED. J. MFG. CO.** "Champion," "Globe"), Hamilton, O. (See adv. index, end of book)
National Mfg. Co. ("Harper," "Peerless," "Balloon," "Eagle"), Dorcester, Mass.
Parker Wire Goods Co., Worcester, Mass.
Reynolds Wire Co., Dixon, Ill.
Wire Goods Co., Worcester, Mass.

## 12349— Traps (Game)

(See Traps, Animal)

## 12350— Traps (Gopher)

Abingdon Trap Co., Abingdon, Ill.
Falls Mfg. Co. ("Nox-All" Dead Shot & Double Grip), 360 Fremont, San Francisco, Cal.

## 12351— Traps (Grease)

Barrett, Jas. Mfg. Co., Boston, Mass.
Estabrook's, R. Sons ("Estabrook," "Boston"), 204 W 1st, S. B., Boston, Mass
Morrison-Kretschmer Mfg. Co., Dubuque, Ia.
Mott, J. L. Iron Works ("Tucker" & "Tobey"), 5th av & 17th, New York
Steam Appliance Co. ("Triumph"), Milwaukee, Wis.

## 12352—Traps (Ground Mole)

Heartley Machine, Variety Iron & Tool Works, Toledo, O.
Wherry, William N., Plymouth, Mich.

## 12353— Traps (Minnow)

Cuba Specialty Mfg. Co., Cuba, N. Y.

## 12354—Traps (Prairie Dog)

**NIAGARA FALLS METAL STAMP**ing Works ("Lightning"), Niagara Falls, N. Y. (See adv. index, end of book)

## 12355—Traps (Rat & Mouse)

Abingdon Trap Co. ("H.," "O. K."), Abingdon, Ill.
Animal Trap Co. ("Out-o-Sight," "Blizzard," "Easy Set," "Zip" & "Wizzard"), Lititz, Pa.
Chasse Mfg. Co. ("Acme" Mouse Trap), 57 Vesey, New York
Chicago Rat & Mouse Trap Co., Foster & Ashland avs, Chicago, Ill.
**DARBY, EDW. & SONS CO. ("French** American"), 239 Arch, Phila., Pa. (See adv. index, end of book)
Delphos Mfg. Co. ("Lightning Re-set"), Delphos, O.
Detroit Wire & Iron Works ("Smith's Never Escape" & Improved "Morty" Pattern), Detroit, Mich.
E-Z Mfg. Co. ("E-Z-Ketch"), Galeburg, Ill.
**ESTEY WIRE WORKS CO. (Wire),** 59 Fulton, New York. (See adv. index, end of book)
Hamblin & Russell Mfg. Co., Worcester, Mass.
Lovell Mfg. Co. ("Erie," "Star," "Grip," "Slayer," "Gem," "Yankee," "Rex," "Sure-Catch," "Delusion," "Mascotte," "Household," "Cyclone," "Easy-Setting, Wood Choker," "Lovell's Metallic Choker") Erie, Pa.
Morrison Specialty Co., Morrison, Ill.
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
National Mfg. Co. (Wire), Worcester, Mass.
**NIAGARA FALLS METAL STAMP**ing Works ("Enticer" Rat Trap), Niagara Falls, N. Y. (See adv. index, end of book)
Piggott Mfg. Co. ("Mirror Decoy"), 9 Woodward av, Detroit, Mich.
Reed, E. L. Mfg. Co. ("Fingersafe," "Presto"), Manistee, Mich.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Stansbury, H. O. Co., 415 Commerce, Phila., Pa.
**SUN MFG. CO., COLUMBUS, O. (See** adv. index, end of book)
Wire Goods Co. (Wire & Wood Bottom), Worcester, Mass.
Woolson, James B., Watertown, Conn.
Worcester Novelty & Wire Co. ("Hold-Em"), Canton, O.

## 12356—Traps (Refrigerator)

Central Brass Mfg. Co., Cleveland, O.

## 12357—Traps (Return, Vacuum & Steam)

**LYTTON MFG. CORP. ("Lytton"),** Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 12358—Traps (Sewer Gas)

Barrett, Jas. Mfg. Co., Boston, Mass.
Barry Mfg. Co., Muscatine, Iowa
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)
Boston Brass Co., 36 Oliver, Boston, Mass.
Central Foundry Co. ("Sure-Seal", etc.) 90 West, New York
Cudell, F. E., Cleveland, O.
Dececo Co., Boston, Mass.
Detroit Sanitary Supply Co. ("Clean Sweep" Non-Syphoning), Detroit, Mich.
Dubois, F. N. Co. (Anti-Syphon Trap Vent), 245 9th av, New York
Edwardsville Brass Co., Edwardsville, Ill.
Federal-Huber Co. ("Protector," Non-Syphoning), Halsted & Fulton, Chicago, Ill.
Humphreys, Mfg. Co., Mansfield, O.
Hydraulic Specialty Co., 427 Walnut, Phila., Pa.
Ideal Mfg. Co., Detroit, Mich.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jenkins Mfg. Co. ("Sanos"), Bloomfield, N. J.
Monarch Brass Co. ("Bower"), Cleveland, O.
Mott, J. L. Iron Works, 118 5th av, New York
Park & McKay Co., 55 Bagley, Detroit, Mich.
Providence Steam Trap Co. (Lead & Brass), 16 Diamond, Providence, R. I.
Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Sproul & McGurrin ("Excelsior" Grease Traps), Grand Rapids, Mich.
Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.

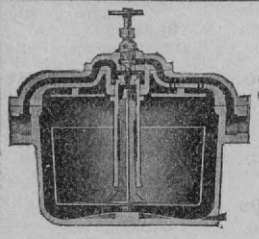
## 12359—Traps (Sewer, Tide & Back Water)

Barrett, Jas. Mfg. Co., 211 Franklin, Boston, Mass.
**BLAKE SPECIALTY CO., 2412 3rd** av, Rock Island, Ill. (See adv. index, end of book)

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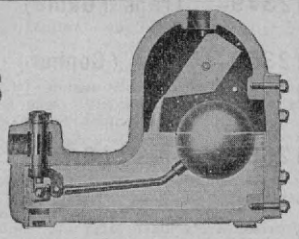
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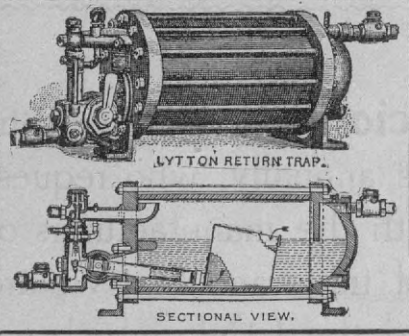
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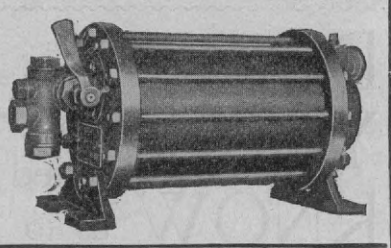
**Branch Office and Warehouse, Davis and Crane Sts., Long Island City, N. Y.**


## 12360— Traps (Steam)

Acton, Jno. ("Old Reliable"), 118 John, Brooklyn, N. Y.
Albany Steam Trap Co. ("Blessing"), Albany, N. Y.
Alert Pipe & Supply Co., Bay City, Mich.
American Blower Co. ("Detroit"), Detroit, Mich.
American District Steam Co. ("Star," "Holly," "Niagara" & "Empire"), North Tonawanda, N. Y.
Anderson, V. D. Co. ("Anderson"), Cleveland, Ohio
Ashcroft Mfg. Co. "McCracken," "Royle"), 85 Liberty, New York
Atwood & Morrill ("XXth Century"), Salem, Mass., & 136 Liberty, New York
Barton, John W. ("Barton" Expansion), 2707 Vestry av, Cleveland, O.
Bayley Mfg. Co., Milwaukee, Wis.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Berry Engineerng Co., Chester, Pa.
Boston Machine Works Co., Lynn, Mass.
Boston Steam Specialty Co. ("Ketcham"), 168 Congress, Boston, Mass.
Bourdon Co. ("Rex," "Twin Tube"), Burlington, Vt.
Buffalo Forge Co. (Automatic Pump & Receiver Type), Buffalo, N. Y.
Burrows Mfg. Co., York, Pa.
Central Station Steam Co., Detroit, Mich.
Chester Engineering & Machine Co. ("Walters"), Chester, Pa.
Consolidated Engineering Co. ("Van Auken"), 507 W Jackson boul, Chicago, Ill.
Consolidated Mfg. & Supply Co. ("Vance"), Pittsburg, Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.
D'Este, Juylian Co. ("Curtis"), Boston, Mass.
Dunham, C. A. Co. ("Dunham," Drain Valve & Steam Trap), Marshalltown, Ia.
Durable Steam Trap Co. ("Cannon", "Youngstown"), Youngstown, O.
Elliott Co. ("Elliott"), Pittsburg, Pa.
Eureka Iron Mfg. Co., 1451 W Harrison, Chicago, Ill.
Exeter Machine Works, Exeter, N. H.
Eynon-Evans Mfg. Co. ("Smurthwaite"), 1519 Clearfield, Philadelphia, Pa.
Flinn, R. J. ("Flinn" Differential), W Roxbury Station, Mass.
Ford, Thos. P. Co. (Compound), 407 Broome, New York
Fosket & Bishop Co. ("Fosket & Bishop"), New Haven, Conn.
French, A. L. ("French", "Harvard", "New Era"), Cambridge, Mass.
Garratt, W. T. & Co. ("McKellar"), San Francisco, Cal.
General Fire Extinguisher Co., Providence, R. I.
Glover Bros. ("John Glover," "Jones"), Paul & Vandike, Fkd., Phila., Pa.
Golden-Anderson Valve Specialty Co. ("Golden" Tilting), Fulton bldg, Pittsburg, Pa.
Haines, Wm. S. Co., ("Heintz"), 136 S 4th, Philadelphia, Pa.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Houghton, E. F. & Co. ("Marck," also Railway Traps), 240 W Somerset, Phila., Pa.
Hughson Steam Specialty Co. ("Eclipse"), 5021 S State, Chicago, Ill.
Hussey, McCann & Co. ("Peerless"), 87 Warren, New York
Illinois Malleable Iron Co., 1801 Diversity boul, Chicago, Ill.
Imperial Iron Works ("Imperial"), Duluth, Minn.
Johnston, Robt. C. & Co. ("Smith"), Cincinnati, O.
Johnston, Wm. T. Co. ("Johnston" Brand), Cincinnati, O.
Kelly & Jones Co., Pittsburg, Pa.
Kieley & Mueller ("Standard" & "Champion"), 7 W 13th, New York
Kitts Mfg Co., Oswego, N. Y.
Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.
Konold, M. J. Co., Pittsburg, Pa.
Lawler Regulator Co. ("Lawler's," "Empire" & Monitor," "Lawler's" Duplex & Return Trap), 473 W B'Way, New York
Lindstrom, Jno. T., Allentown, Pa.
Linton Machine Co. "Komo"), 26 Cortlandt, New York
Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
Locke Regulator Co., Salem, Mass.
Lonergan, J. E. & Co. ("Reliable"), 211 Race, Phila., Pa.
**LYTTON MFG. CORP. ("Lytton"** Separating, also Return & Vacuum), Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)
McAuley Automatic Trap Co. ("McAuley" Automatic), Pittsburg, Pa.
McCrea, Jas. & Co. ("H. H."), 558 W Wash'n, Chicago, Ill.
McMann, Thos. R. Co. ("Russell"), 58 Gold, New York
Marsh, Jas. P. & Co., Chicago, Ill.
Mechanics Supply Co. ("Kell"), Pittsburg, Pa.
Mitchell, W. K. & Co. ("Denny" High & Low Pressure), Schuylkill av & Ellsworth, Phila., Pa.
Monash-Younker Co. ("Mo-Yo-Co," "Fidelity" & "Monash"), 1407 W Jackson boul, Chicago, Ill.
Morehead Mfg. Co. ("Morehead" Return, Non-Return & Vacuum), Detroit, Mich.
Mott, J. L. Iron Works ("Tobey"), 118 5th av, New York
Murray Automatic Boiler Feed Co., 807 Scotten av. Detroit, Mich.
Nashua Machine Co. ("Bundy"), Nashua, N. H.
**NASON MFG. CO. ("Nason," "Nason-Vesuvius," "Nason - Sidelug." "Nason Class B" & "Nason Class C"),** 71 Fulton, New York. (See adv. index, end of book)
National Blower Works ("National"), Milwaukee, Wis.
National Dry Kiln Co. ("National"), Indianapolis, Ind
National Steam Specialty Co., 16 S Clinton,
National Supply Co., Toledo, O. Chicago, Ill.
National Tube Co., Pittsburg, Pa.
Nelson, Chas. ("Dinkel"), 439 E 10th, New York


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Nichols, E. M. ("Handy"), 212 W Wash'n sq, Phila., Pa.
Nicholson, W. H. & Co. ("Wyoming" Steam Trap & Separator Combined), Wilkes-Barre, Pa.
Oliver & Howland Co. ("Howland"), Springfield, Mass.
Open Coil Heater & Purifier Co. ("Stickle"), Indianapolis, Ind.
Osborne High Pressure Joint & Valve Co. ("Osborne" Hydrostatic), The Rookery, Chicago, Ill.
Pancoast, Henry B. & Co. ("Barr's"), 243 S 3d, Philadelphia, Pa.
Pittsburg Valve & Fittings Co. ("Pittsburg"), Barberton, O.
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh"), 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th st & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Platt, Jno. ("Geipels"), 97 Cedar, New York
Pratt & Cady Co., Hartford, Conn.
Prims, J. C. Machinery Co. ("Taylor"), Battle Creek, Mich.
Providence Steam Trap Co. ("Newton"), Providence, R. I.
Reams, O. M. Steam Economy Co., Cleveland, Ohio
Reliance Gauge Column Co. ("Reliance"), Cleveland, O
**ROGERS, H. A. CO. ("Heintz"),** 19 John, New York. (See adv. index, end of book)
Rutzler, E. Co. (Automatic), 404 E 49th, New York
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Sarco Fuel Saving & Engineering Co., 90 West, New York
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Squires, C. E. Co. ("Squires"), Cleveland, O.
Standard Steam Specialty Co. ("Sirius"), 542 W B'way, New York
Steam Appliance Co. ("Triumph" Steam Actuated, "Peters" Corliss Valve), Milwaukee, Wis.
**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), Cleveland, O. (See adv. index, end of book)
**STURTEVANT, B. F. CO. ("Flynn,"** "Sturtevant"), Hyde Park, Mass. (See adv. index & branch offices, end of book)
Taylor Steam Specialty Co., Battle Creek, Mich.
Templeton Mfg. Co. ("Sterling"), Boston, Mass.
Vaile & Kimes ("V. & K."), Dayton, O.
Walworth Mfg. Co., Boston, Mass.
Watson & McDaniel Co. ("McDaniel," "Reliable," "Chapman," "Columbia"), 146 N 7th, Philadelphia, Pa.
Watts Regulator Co., Lawrence, Mass.
Williams, D. T. Valve Co. ("Cookson"), Cincinnati, O.
Williams Gauge Co. ("Williams" Bucket & Steam Operated), Pittsburg, Pa.
Wolf, Fred W. Co. ("Acme"), 827 Rees, Chicago, Ill.
Wright Mfg. Co. ("Wright Emergency" & "Victor" Low Pressure), Detroit, Mich.

## 12361—Traps (Steam, Railway)

**CHICAGO CAR HEATING CO., Railway** Exchange bldg, Chicago, Ill. & 170 B'way, New York (See adv index, end of book)
Houghton, E. F. & Co. ("Marck"), 240 W Somerset, Phila., Pa.
Williams, D. T. Valve Co., Cincinnati, O.

## 12362—Traps (Vacuum)

Konold, M. J. Co., Pittsburg, Pa.
**LYTTON MFG. CORP. ("Lytton"),** Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)
Newman Mfg. Co., 172 Fulton, New York
**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 12362a— Traps (Waste)

Sure Seal Trap Co. (Inc.) (Non-Syphon), 95 Pine, Providence, R. I.

## 12363—Travelers (Ferry)

**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 12364—Traveling Bags & Suit Cases

(See also Trunk Manufacturers)

Abel & Bach Co., Milwaukee, Wis.
Aronoff, Jos. J., Trenton, N. J.
Atlas Suit Case Co., 32 Howard st, New York
Barnum Trunk Co., Minneapolis, Minn.
Belber Trunk & Bag Co., Columbia av & Macher, Phila., Pa.
Boyle, John & Co., 112 Duane, New York
Co-operative Mfg. Co., West Somerville, Mass.
Crane Bros., Westfield, Mass.
Crouch & Fitzgerald, 161 B'way, New York
Duguid Bros., Toledo, O.
Ellas, Charles, 253 Bowery, New York
Enterprise Bag Co., 14 Thomas, New York
Excelsior Trunk Co., Kansas City, Mo.
Fabric Leather Co., Defiance, O.
Fibre Specialty Co., Kennett Square, Pa.
Galewski, S., 321 B'way, New York
Gerding, Geo. W., 405 Commerce, Phila., Pa.
Gibb & Harris, Los Angeles, Cal.
Hahn & Aberg, 569 B'way, New York
Hartmann Trunk Co., Chicago, Ill.
Haskell Bros., Wabash av & Wash'n st, Chicago, Ill.
Headley & Farmer Co., Harrison, N. J.
Kuester, August, 417 Market, Phila., Pa.
Lanz, Owen & Co., 70 W. Jackson Blvd, Chicago, Ill.
Leatheroid Mfg. Co., Kennebunk, Me.
Likly, Henry & Co., Rochester, N. Y.
Lowy, A., 6 Wooster, New York
Lowy & Co., 29 Lispenard, New York
Malm, C. A. & Bro., San Francisco, Cal.
Mayer, Max, 131 N 10th, Phila., Pa.
Meier, Jacob F. Co., Detroit, Mich.
New England Trunk Co., Boston, Mass.
Peddie, T. B. & Co., 368 B'way, New York
Rippe & Fine, 68 Thomas, New York
Rubenstein, A., 25 White, New York
Schmickl, F. & Co., 553 B'way, New York
Schmit Bros. Trunk Co., Oshkosh, Wis.
Secor, M. M. Trunk Co., Racine, Wis.
Seward Trunk & Bag Co., Petersburg, Va.
Warren Leather Goods Co., Worcester, N. Y.
Weingarten & Geberer, 46 Howard, New York
White, E. H. Co., 443 N 10th, Phila., Pa.
Wilt, Chas. T., 180 Wabash av, Chicago, Ill.
Zick, Joseph, Rochester, N. Y.

## 12364a—Trays (Barrow)

**JACKSON MFG. CO., 50 Church,** New York, & Harrisburg, Pa. (See adv. index, end of book)

## 12365— Trays (Brass)

Knapp Mfg. Co. (Bar, Candy, etc.), 20 Warren New York
New York Stamping Co. ("Empress" Table), N 11th & Berry, Brooklyn, N. Y
Sweeney, W. H. Mfg. Co. (All Styles), 30 Main, Brooklyn, N. Y.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index, end of book)

## 12366— Trays (Letter)

Andrews Wire & Iron Works ("Corner Post" Wire), Rockford, Ill.
Barbee Wire & Iron Works ("Acme" Wire), 44 Dearborn, Chicago, Ill.
National Mfg. Co. (Wire), Worcester, Mass.
Progressive Wire Goods Co. (Wire), 529 Commerce, Phila., Pa.
Standard Wire Co. ("Standard" Wire), New Castle, Pa.
Tatum, Sam'l C. C. (Wire), Cincinnati, O.

## 12367—Trays (Litho. Metal)

Shonk, Chas. W. Co., Maywood, Ill.

## 12368—Treadles (Foot Power)

Slotkin Mayer Mfg. Co. (For Light Machinery, etc.), 210 Canal, New York

## Treads (Car Step)

(See Car Steps & Treads)

## 12369—Treads (Dog Power)

(See also Horse Powers)

Dobson Mfg. Co., Rockford, Ill.
Gowanda Agricultural Works, Gowanda, N. Y.
McDermaid, J., Rockford, Ill.

## 12370—Treads (Push Button Floor)

Ansonia Electrical Co. ("Daisy"), Ansonia, Conn.
Renim Specialty Co. ("Ideal"), Brighton Station, Boston, Mass.

## Treads (Rubber)

(See Mats & Matting, Rubber)

## 12371— Treads (Safety)

(See Stair Treads, Various Kinds; also Car Steps & Treads; also Steps, Safety Tread; also Steps, Sliding Ladder)

## Tree Guards

(See Wire Fence & Gates; also Iron Railings & Fences)

## 12372— Treenails

Hoskins, J. S. Lumber Co. ("Locust," for Ship Purposes), Baltimore, Md.

## 12373—Trestles (Painters' & Masons')

Burroughs, W. B. ("Pease"), Mt. Vernon, N. Y.
Frizell Ladder Co., 135 Granite av, Dor., Boston, Mass.
Moulton, C. W. & Co., Somerville, Mass.

## 12374—Trestles (Shaft Hanging)

Portland Extension Ladder Co. ("Excelsior" Folding Extension Trestle or Scaffold Horse), 130 Orange, Newark, N. J.

## 12374a—Trestles (Steel, Folding)

**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)

## 12375—Trestles (Steel Frame)

**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)

## 12376— Triangles

Brown & Sharpe Mfg. Co. (Steel), Providence, R. I.
Disston, Henry & Sons (Inc.) (Steel), Tacony, Phila., Pa.
**ELLIOTT, B. K. CO., 108 6th, Pitts**burg, Pa. (See adv. index, end of book)
**ENGINEERING AGENCY, Monad**nock blk, Chicago, Ill. (See adv. index, end of book)
Humason & Beckley Mfg. Co., New Britain, Conn.
Kalamazoo Railway Supply Co. ("Safety"), Kalamazoo, Mich.
Smith, E. G. Co. (German Silver), Columbia, Pa.

**SOLTMANN, E. G.**
(Wood with Transparent Edges; also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## Triers

(See Tryers)

## 12377—Trimmers (Blue Print)

Ridgely Trimmer Co., Springfield, O.

## 12378—Trimmers (Bolt Head)

**BLISS, E. W. CO., 19 Adams, Brooklyn,** New York. (See adv. index & branch offices, end of book)
Manville, E. J. Machine Co., Waterbury, Conn.
National Machinery Co., Tiffin, Ohio.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

## 12379—Trimmers (Hedge)

American Axe & Tool Co., Glassport, Pa.
Disston, Hy. & Sons, Inc., Tacony, Phila., Pa.
Stearns, E. C. & Co. (Or Lawn), Syracuse, N. Y.

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## 12380—Trimmers (Hoof)

Bliss Mfg. Co., South Egremont, Mass.
Muncie Wheel Co. ("Easy" for Trimming Horse Hoofs), Muncie, Ind.
Stearns, E. C. & Co., Syracuse, N. Y.

## 12381—Trimmers (Lamp)

Acme Shear Co., Bridgeport, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Challenge Cutlery Co., Bridgeport, Conn.
Ives, H. B. Co. ("Barnard"), New Haven, Conn.

## 12382—Trimmers (Lawn)

Coldwell Lawn Mower Co., Newburgh, N. Y.
Granite State Mowing Machine Co. ("Capitol"), Hinsdale, N. H.
Imperial Bit & Snap Co. ("Hide Imperial"), Racine, Wis.
Northwestern Consolidated Iron & Steel Mfg. Co. ("Pierce"), Burlington, Ia.
Phila. Lawn Mower Co. ("Philadelphia"), 3107 Chestnut, Phila., Pa.
Supplee Hardware Co. ("Pennsylvania" Ball Bearing), 503 Market, Phila., Pa.
Sweet-Clarke Co. ("Universal"), Jamestown, N. Y.
Townsend, S. P. & Co., Orange, N. J.
Utica Lawn Trimmer Co., Utica, N. Y.

## 12383—Trimmers (Lead Pipe)

Emond, Louis, Lowell, Mass.

## 12384—Trimmers (Lumber)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American"), Hackettstown, N. J.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Clark Bros. Co., Belmont, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Wilkinson." "Diamond" & "Harmon"), Minneapolis, Minn.
Enterprise Mfg. Co., Columbiana, O.
Filer & Stowell Co., Milwaukee, Wis.
Fox Machine Co. ("Universal"), Grand Rapids, Mich.
Garland, M. Co. (Two Saw), Bay City, Mich.
Gordon Hollow Blast Grate Co. (The "Tower"), Greenville, Mich.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
Howell, R. R. & Co., Minneapolis, Minn.
Lane Mfg. Co., Montpelier, Vt.
**LINK BELT COMPANY, Hunting Park av & Reading, Pa., Phila., Pa.** (See adv. index & branch offices, end of book)
Murray, J. D. Mfg. Co., Wausau, Wis.
Oliver Machinery Co. ("The Oliver"), Grand Rapids, Mich.
Phoenix Mfg. Co., Eau Claire, Wis.
Smith, Myers & Schnier Co., Cincinnati, O.
Southern Engine & Boiler Works, Jackson, Tenn.
Standard Saw Mill Machinery Co., Erie, Pa.
Stearns Co., Erie, Pa.
Stellman, L. H. & Son, Brattleboro, Vt.
Tomahawk Iron Works, Tomahawk, Wis.
Union Iron Works, Bangor, Me.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

## 12385—Trimmers (Paper Hangers')

(See also Tools, Paper Hangers')
Allen, A. & Co. (Hand & Power), 2001 Carpenter, Phila., Pa.
Ridgeley Trimmer Co., Springfield, O.
Standard Trimmer Co., Springfield, O.

## 12385a—Trimmers (Sheet Metal)

**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index & branch offices, end of book)

## 12386—Trimmers (Slate)

Ruggles Machine Co., Poultney, Vt.

## 12387—Trimmers (Spoke)

Bonney Vise & Tool Works (Inc.), Allentown, Pa.
Millers Falls Co., 28 Warren, New York
**SMITH & HEMENWAY CO., 150** Chambers, New York. (See adv. index, end of book)

## 12387a—Trimmers (Standing Seam)

Danzer Metal Works, Hagerstown, Md.

## 12388—Trimmers (Tree)

(See also Shears, Pruning)
Klein, Mathias & Sons ("Klein's"), 562 W Van Buren, Chicago, Ill.
Oshkosh Mfg. Co. ("Excelsior"), Oshkosh, Wis.

## 12389—Trimmers (Wall Paper)

(See Trimmers, Paper Hangers')

## 12390—Trimmings (Bedstead)

American Ring Co., Waterbury, Conn.
Scovill Mfg. Co., Waterbury, Conn.

## 12391—Trimmings (Boat & Launch)

Detroit Arch'l Iron Works Co., Detroit, Mich.
Laughlin, Thos. Co., Portland, Me.
Liberty Brass Works, 303 W Lombard, Baltimore, Md.
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
Simpson, Thos. J., 94 John, New York
Twentieth Century Brass Mfg. Co., Minneapolis, Minn.

## Trimmings (Car)

(See Car Trimmings)

## 12392—Trimmings (Curtain Pole)

**TURNER & SEYMOUR MFG. CO., Torrington, Conn.** (See adv. index, end of book)

## 12393—Trimmings (Fancy Box)

Hassall, John (Hinges, Catches, etc.), 45 Lafayette, New York

## 12394—Trimmings (Furniture)

American Ring Co. (Brass), Waterbury, Conn.
Artistic Bronze Co., South Norwalk, Conn.
Burns & Bassick Co. (Brass & Bronze), Bridgeport, Conn.
Grand Rapids Brass Co. (Metal Escutcheons. Knobs, Pulls, Locks, Hinges, etc.), Grand Rapids, Mich.
National Lock Co. (Brass & Plate), Rockford, Ill.
Novelty Mfg. Co. (Metal), Waterbury, Conn.

## 12395—Trimmings (Refrigerator)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Brass Goods Mfg. Co., Brooklyn, N. Y.
Dent Hardware Co., Fullerton, Pa.

## 12396—Trimmings (Smoking Pipe)

Novelty Mfg. Co. (Brass), Waterbury, Conn.

## 12397—Trimmings (Table Cutlery)

Novelty Mfg. Co., Waterbury, Conn.

## 12397a—Tripods (Drill)

**INGERSOLL-RAND CO., 11 B'way,** New York. (See adv. index & branch offices, end of book)

## 12398—Tripoli

American Tripoli Co., Seneca, Mo.
Callery, W. W. & Co., Pittsburg, Pa.
Cohutta Talc Co., (Miners' & Refiners'), Dalton, Ga.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
National Tripoli Co. (Stone & Flour, also Floor Polish), Columbus, O.
Oxford Tripoli Co., 11 B'way, New York

## 12399—Trippers (Belt)

**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

## 12400—Trolley Ears

Allen Fire Department Supply Co., Providence, R. I.
American General Engineering Co., 253 B'way, New York
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Aurora Specialty Mfg. Co. (Of All Kinds), Aurora, Ill.
Chester Railway Supply Co. ("Dyer"), Chester, Pa.
Columbia Machine Works & Malleable Iron Co., 169 Chestnut, Brooklyn, N. Y.
Creaghead Engineering Co., Cincinnati, O.
Electric Service Supply Co., 1024 Filbert, Phila., Pa.
Electric Traction Supply Co., St. Louis, Mo.
Eureka Tempered Copper Works, North East, Pa.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Indianapolis Brass Co., Indianapolis, Ind.
Morris Iron Co., 90 West, New York. Works: Ohio Brass Co., Mansfield, O. Frederick, Md.
**WESTINGHOUSE ELECTRIC & Mfg. Co. ("Westinghouse"), Pittsburg, Pa.** (See adv. index & branch offices, end of book)

## 12401—Trolley Harps or Forks

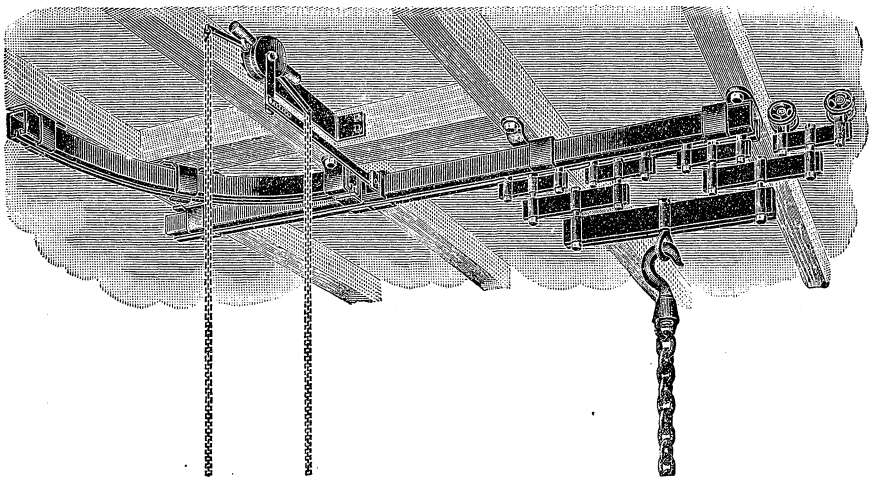
(See Forks, Trolley; also Trolley Line Materials)

## 12402—Trolley Line Materials

(See also Railway Supplies, Electric)
Ajax Line Material Co., So Milwaukee, Wis.
American General Engineering Co. ("A-G-E"), 253 B'way, New York
American Shovel & Stamping Co., Lorain, O.
Anderson, Albert & J. M. Mfg. Co. (Overhead), 289 A S, Boston, Mass.
Archbold-Brady Co., Syracuse, N. Y.
Archer Trolley Harp Co. ("Archer" Swivel Trolley Harp), Marquette bldg, Chicago,
Aurora Specialty Mfg. Co., Aurora, Ill. Ill.
Bayonet Trolley Harp Co. (Detachable Trolley Harp & Butterfly Sleet Cutter), Springfield, O.
Bissell, F. Co., Toledo, O.
Chester Railway Supply Co. ("Dyer" Trolley Ears, etc.), Chester, Pa.
Clark Elec. & Mfg. Co. ("Clark"), 149 B'way, New York
Columbia Machine Works & Malleable Iron Co. (Strain Line Anchor, etc.), 269 Chestnut, Brooklyn, N. Y.
Creaghead Engineering Co. ("Bourbon"), Cincinnati, O.
Eccles & Smith Co., San Francisco, Cal.
Electric Railway Equipment Co. (Electric Cable, "Sure-Grip" Catenavy Hangers), Cincinnati, O.
Electric Service Supplies Co. ("Keystone"), 1024 Filbert, Phila., Pa.
Electric Traction Supply Co. (Bronze Ears, Splicing Sleeves, etc.), St. Louis, Mo.
Elyria Trolley Supply Co. (Trolley Wheels & Harps), Elyria, O.
Eureka Tempered Copper Works (Trolley Ears, Splicers, etc.), North East, Pa.
Garton, W. R. & Co. (Flexo & Semi-Flexo Trolley Ears; Mabir & Hivol Pins, etc.), 118 W Jackson boul, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hall, Wm. & Co., 7 Dock sq., Boston, Mass.
Indianapolis Brass Co., Indianapolis, Ind.
**JOHNS, H. W.-MANVILLE CO. ("J. M." Overhead & Subway), 100 William,** New York. (See adv. index & branch offices, end of book)
Keystone Drop Forge Works (Harps, etc.), Chester, Pa.
Lang, J. Electric Co., 423 N Lincoln, Chicago,
Macallen Co., Boston, Mass. Ill.
More-Jones Brass & Metal Co., St. Louis, Mo.
Morris Iron Co., 90 West, New York. Works: Frederick, Md.
National Brass Mfg. Co. (Harps, etc.), Rochester, N. Y.
New Departure Mfg. Co. (Harps, etc.), Bristol, Conn.
**NUTTALL, R. D. CO. ("Union" Trolley Harp), Fayette & Garrison pl, Pittsburg, Pa.** (See adv. index, end of book)
Ohio Brass Co. (Overhead), Mansfield, O.
Phila. Electrical & Mfg. Co. ("Pemco" Feeder Arms, etc.), 1232 N 31st, Phila., Pa.
Post-Glover Electric Co., 314 W 4th, Cincinnati, O.
Recording Register & Fare Box Co. (Multi-Ampere Trolley Harps & Other Specialties), New Haven, Conn.
Ridlon, Frank Co., 251 A, Boston, Mass.
Star Brass Works ("Kalamazoo" Harps), Kalamazoo, Mich.
Sterling-Meaker Co., 420 Ogden, Newark, N. J.
Stuart-Howland Co., Boston, Mass.
Traction Material Co., 50 Church, New York
Wallace Supply Co., 120 S Jefferson, Chicago,
Wesco Supply Co., St. Louis, Mo. Ill.
**WESTINGHOUSE ELEC. & MFG. CO., Union Bank bldg, Pittsburg, Pa.** (See adv. index & branch offices, end of book)

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## 12402a– Trolley Poles

(See Poles, Various Kinds; also Ties, Poles & Posts)

## 12403–Trolleys (Electric Conveying)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 12404– Trolleys (Mine)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

**NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa.** (See adv. index, end of book)

## 12405–Trolleys & Chairs (Cable Stringing)

Bissell, F. Co. ("Security"), Toledo, O.
Central Telephone & Elec. Co. ("Arrow"), St. Louis, Mo.
Matthews, W. N. & Bro. ("Callahan"), St. Louis, Mo.
Oshkosh Logging Tool Co., Oshkosh, Wis.

## 12406–Trolleys & Trolley Tracks (Overhead)

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O.** (See adv. index, end of book)

Box, Alfred & Co., 813 N Front, Phila., Pa.

**BROWN HOISTING MACHINERY CO., 4403 St. Clair, N. E., Cleveland, O.** (See adv. index & branch offices, end of book)

Case Crane Co. (I Beam), Columbus, O.

**CHISHOLM & MOORE MFG. CO.** (Geared & Plain Yoke Trolleys), 49th & Lake, Cleveland, O. (See adv. index, end of book)

Climax Hoist Co. ("Climax," Single I Beam, etc.), 2227 Wood, Phila., Pa.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.

Curtis & Co., Mfg. Co. (Air Motor, Beam Trolleys, & Tunnison Beam Trolley Hoists, etc.), St. Louis, Mo.

Dake Engine Co. (Pneumatic & Steam), Grand Haven, Mich.

**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)

**FREVERT MACHINERY CO., 18 Dey, New York.** (See adv. index, end of book)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)

Gregg Company (Ltd.), Lodi, N. J.

**GUERRLICH, FRED'K C., 156 West** av, Long Island City, N. Y. (See adv. index, end of book)

Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.

**HOISTING MACHINERY CO., 50** Church, New York. (See adv. index & branch offices, end of book)

Hunt, C. W. Co. (Hand), West New Brighton, S. I., N. Y.

**McCABE HANGER MFG. CO. (Eye Beam), 425 W 25th, New York.** (See adv. index, end of book)

Maris Bros., 56th & Grays Ferry rd. Phila., Moore, Franklin Co., Winsted, Conn. Pa.

**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)

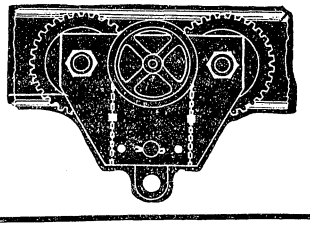
**NEW JERSEY FOUNDRY & MA**chinery Co., 90 West, New York

**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Pawling & Harnischfeger Co. (I Beam Electric), Milwaukee, Wis.

Philadelphia Tram-Rail Co., Front & Tusculum, Phila., Pa.

**PITTSBURG CONVEYING MACHIN**ery Co., Pittsburg, Pa. (See adv. index, end of book)

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Randall, R. T. & Co., 333 N 2d, Phila., Pa.
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
**RICHARDS - WILCOX MFG. CO.** ("Richards" Trolley Overhead Carriers), 3rd & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Ricker Mfg. Co., Rochester, N. Y.
**ROCKWELL FURNACE CO.** ("Moyer"), 26 Cortlandt, New York. (See adv. index, end of book)
Round, David & Son, Cleveland, O.
**SHEPARD ELECTRIC CRANE &** Hoist Co. (Electric & Pneumatic, Plain & Geared, I-Beam), Montour Falls, N. Y. (See adv. index & branch offices, end of book)
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
Stuebner, G. L., Long Island City, N. Y.
Toledo Bridge & Crane Co. (I-Beam), Toledo, Ohio
Treadwell M. H. Co., 90 West, New York
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Whitehead & Kales Iron Works, Detroit, Mich.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co. (Crane-C-I-Beam & Plain Rail), 9 Murray, New York

## 12407– Troughs (Hog)

Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Dutton, E. Q. & Co., Cato, N. Y.
Martin, J. D. & Co., Oskaloosa, Ia.
Munnsville Plow Co. (Cast Iron), Munnsville, N. Y.

## 12408– Troughs (Meat)

Sterling Wheelbarrow Co. ("Sterling" Sanitary), Milwaukee, Wis.

## 12409–Troughs (Watering)

Bushnell Tank Works, Bushnell, Ill.
Casey-Hedges Co. (Cast Iron Horse), Chattanooga, Tenn.
Central Foundry Co. (Cast Iron), 90 West, New York
Chicago Steel Tank Co., 733 S Halsted, Chicago, Ill.
Columbian Steel Tank Co. (Galvanized Steel), Kansas City, Mo.
Comstock, Geo. S. (Steel), Mechanicsburg, Pa.
Gedge Bros. Iron Roofing Co. (Galvanized Steel), Anderson, Ind.
Harry Bros. Co. ("Harry's," Corrugated Galvanized Steel), Newport, Ky., New Orleans, La.
Harry, O. K. Steel Co. (Galvanized Steel), St. Louis, Mo.
Harry, O. K. Steel Works (Feed), Dallas, Tex.
Honhorst, Joseph Co., Cincinnati, O.
Kelly Mfg. Co., Waterloo, Ia.
Niles Steel Tank Co. (Galvanized Steel), Niles, Mich.
Perkins Wind Mill Co., Mishawaka, Ind.
Sprecher Mfg. Co. (Cast Iron, Portable Line), Ephrata, Pa.
Wells, Owen & Stambach Co. (Soapstone), 11th & Ridge av, Phila, Pa.
Weaver, Frank L. (Steel), New Oxford, Pa.

## 12410– Trowels

**ARCADE MFG. CO. (Steel Garden,** etc.), Freeport, Ill. (See adv. index, end of book)
Atkins, E. C. & Co. (Plastering, etc.), Indianapolis, Ind.
Avery Stamping Co. ("Never-Break" Garden), Cleveland, O.
Billings, Jas. E., Irvington, N. J.
Billings, Spencer Co. (Drop Forged), Hartford, Conn.
Bishop, Geo. H. & Co. (Plasterers'), Lawrenceburg, Ind.
Browne & Dowd Mfg. Co. (Plastering), Meriden, Conn.
**BUFFUM TOOL CO. (Plastering,** Brick, Bent Blade Garden Transplanting, Handy Pointing, etc.), Louisiana, Mo. (See adv. index & branch offices, end of book)
Clark, W. J. Co. (Garden, Brick, Plastering, etc.), Salem, O.
**CRESCENT NOVELTY MFG. CO.** (Handle, Handle Edge, Outside Corner or Angle), 703 S B'way, St. Louis, Mo. (See adv. index, end of book)
Disston, Henry & Sons (Inc.) (Garden, Brick, Plastering, Edging, Cementing, etc.), Tacony, Phila., Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hills, Edwin (Garden), Plainville, Conn.
Humphrey, H. W. (Garden, etc.), Unionville, Conn.
Jackson Shovel & Tool Co. ("Gem," Garden, etc.), Montpelier, Ind.
Johnson, Wm. (Hedenberg Works), (Handy, Garden, Transplanting, Brick Plastering, Pointing Corners, etc.), Newark, N. J.
Kohler, F. E. & Co. (Garden, etc.), Canton, O.
Landers, Frary & Clark (Garden), New Britain, Conn.
Lothrop, H. A. & Co., Sharon, Mass.
Marshalltown Trowel Co. (Plasterers' Brick, etc.), Marshalltown, Ia.
Maynard, C. A. ("C. A. Maynard" Garden, Brick), Northampton, Mass.
National Saw Co. ("Woodrough & McParlin," "Cincinnati" Brick & Plastering), Newark, N. J.
New York Stamping Co. ("Primrose" Garden), N 11th & Berry, Brooklyn, N. Y.
Niagara Handle & Ferrule Co., Baltimore, Md.
Nicholls Mfg. Co. (Plasterers'), Ottumwa, Ia.
Peck, Stow & Wilcox Co., Southington, Conn.
Rose, Wm. & Bros., Sharon Hill, Pa.
Sayre, L. A. & Son, Newark, N. J.
Smith, H. D. & Co. ("Perfect Tandle" Drop Forged), Plantsville, Conn.
Stortz, Jno. & Son (Brick, Plastering, Pointing, Putty, Paint, etc.), 210 Vine, Phila., Pa.
Union Furnace Mfg. Co., Union Furnace, Pa.
Western Steel & Iron Works (Garden), De Pere, Wis.

## 12411–Trowels (Butter)

**AMERICAN TAP & DIE CO. ("Nichols Bros."),** Greenfield, Mass. (See adv. index, end of book)
Landers, Frary & Clark (Inc.) (Also Butter Spades etc.), New Britain, Conn.

## 12413–Trowels (Concrete Finishing)

Twentieth Century Mfg. Co. ("20th Century"), 1704 Lowe, Chicago, Ill.

## Trowels (Molders')

(See Tools, Molders')

## 12416–Trowels (Plastering)

**BUFFUM TOOL CO., Louisiana, Mo.** (See adv. index & branch offices, end of book)

## 12418–Truck Bands (Rubber)

**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Empire Rubber Mfg. Co., Trenton, N. J.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Hamilton Rubber Mfg. Co., Trenton, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York.
Morgan & Wright (Inc.), Detroit, Mich.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., (Ltd.), 91 Chambers, New York
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
United & Globe Rubber Mfg. Co., Trenton, N. J
Whitehead Bros. Rubber Co., Trenton, N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 12419–Truck Haulers (Electric)

**MEAD-MORRISON MFG. CO. (Use on** Docks for Hauling Cargo from Vessels). Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

## 12420– Trucks (Aerial)

American-La France Fire Engine Co., Elmira, N. Y.
Seagrave Co., Columbus, O.
Webb Motor Fire Apparatus Co. (Combination Wagon & Truck), St. Louis, Mo.

## 12421–Trucks (Armature)

Device Improvement Co. ("Peerless"). Han-over, Pa.
Ridlon, Frank Co., Boston, Mass.
Smith & Wallace, Woburn, Mass.

## 12422–Trucks (Ash Can)

Browne, W. G. Mfg. Co., Kingston, N. Y.
Clark, Geo. P. Co., Windsor Locks, Conn.

## 12423–Trucks (Assembling)

Towsley, J. T. Mfg. Co., Cincinnati, O.

## 12424–Trucks (Bag & Barrel)

Adams Co. (Iron), Dubuque, Ia.
Armstrong Truck Co. (2 & 4 Wheel), North Wales, Pa.
**ATLAS CAR & MFG. CO., 1289 Mar-**quette rd, N E, Cleveland, O. (See adv. index, end of book)
Barnard & Leas Mfg. Co., Moline, Ill.
Bancroft & Co., Harrison bldg, Phila., Pa.
Bateman Mfg. Co., Grenloch, N. J.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Boston & Lockport Block Co., Boston, Mass.
Buch's, A. Sons Co., Elizabethtown, N. J.
Buffalo Scale Co., Buffalo, N. Y.
Case Mfg. Co., Columbus, Ohio
Chase Foundry & Mfg. Co., Columbus, Ohio
Chicago Scale Co., 1021 W Jackson blvd, Chicago, Ill.
Clark, Geo. P. Co., Windsor Locks, Conn.
Comstock, Geo. S. (Bag), Mechanicsburg, Pa.
Enterprise Mfg. Co., 3d, cor. Dauphin, Phila., Pa.
Fairbanks Co., Lafayette, cor. Broome, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd), York, Pa.
Howe Scale Co., Rutland, Vt.
Illinois Iron & Bolt Co. ("Hercules" All Steel) Carpentersville, Ill.
Keighley, S. Metal Ceiling & Mfg. Co. (Barrel Only), 824 Locust, Pittsburg, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Knowles Scale Works (Ash Barrel Cans), Lowell, Mass.
Lansing Wheelbarrow Co., Lansing, Mich.
Lehr Agricultural Co., Fremont, O.
**LYON METALLIC MFG. CO., Aurora,** Ill. (See adv. index & branch offices, end of book)
McKinney Mfg. Co., Pittsburg, Pa.
Messinger Mfg. Co., Tatamy, Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Nutting Truck Co. (2, 3, 4 & 6 Wheeled), Faribault, Minn.
Ohio Ceramic Engineering Co., Cleveland, O.
Peck-Hamre Mfg. Co. (Automatic Barrel), Berlin, Wis.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Phoenix Hardware Mfg. Co. (Barrel Only), Homer, N. Y.
Rieble Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
**SPROUT, WALDRON & CO. (Bag),** Muncy, Pa. (See adv. index, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Tatum, Samuel C. Co., Cincinnati, O.
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
United States Truck & Supply Co. ("Hercules" Self Loading Barrel), Land Title bldg, Phila., Pa.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitehurst, E. W. Co., Norfolk, Va.
Wrightsville Hardware Co. (Bag), Wrightsville, Pa.
Zering, H. Mfg. Co., Cincinnati, O.

## 12425–Trucks (Baggage)

Ames Plow Co., Boston, Mass.
Boston & Lockport Block Co., Boston, Mass.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 1021 W Jackson, blvd, Chicago, Ill.
Chase Foundry & Mfg. Co., Columbus, O.
Clark, Geo. P. Co., Windsor Locks, Conn.
Elwell-Parker Electric Co. ("Buckwalter" Electric), Cleveland, O.
Fairbanks Co., Lafayette, cor. Broome, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co., York, Pa.
Howe Scale Co., Rutland, Vt.
Kalamazoo Railway Supply Co. (Also Railroad Warehouse), Kalamazoo, Mich.
Lansing Wheelbarrow Co., Lansing, Mich.
Nutting Truck Co., Faribault, Minn.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.

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Syracuse Chilled Plow Co., Syracuse, N. Y.
Standard Scale & Supply Co., Pittsburg, Pa.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitman Agricultural Co., St. Louis, Mo.
Zering, H. Mfg. Co., Cincinnati, O.

## 12426– Trucks (Basket)

Bancroft & Co., Harrison bldg, Phila., Pa.
Fairbanks Co., 416 Broome, New York
Kilbourne & Jacobs Mfg. Co., Columbus, Ohio
Nutting Truck Co., Faribault, Minn.
Peru Basket Co. (Bamboo Truck, Rubber Tired Wheels), Peru, Ind.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitehurst, R. W. & Co., Norfolk, Va.
Zering, H. Mfg. Co., Cincinnati, O.

## 12427–Trucks (Binder & Header)

Adriance, Platt & Co. (Binder), Poughkeepsie N. Y.
Burg Wagon Co. (Header), Burlington, Ia.
Fish Bros. Mfg. Co. (Header), Clinton, Ia.
Johnson Harvester Co. (Binder), Batavia, N. Y.
Moline Wagon Co. (Header), Moline, Ill.
Winona Wagon Co. (Header), Winona, Minn.

## 12428– Trucks (Book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Western Wheelbarrow & Mfg. Co. (Ball Bearing Rubber Tired), Kansas City, Kans.
Zering, H. Mfg. Co., Cincinnati, O.

## 12429–Trucks (Bottlers')

Chase Foundry & Mfg. Co., Columbus, O.
Clark, Geo. P. Co., Windsor Locks, Conn.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Ohio Ceramic Engineering Co., Cleveland, O.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.

## 12430– Trucks (Box)

Armstrong Truck Co., North Wales, Pa.
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
City Forge & Iron Works ("Gem" & Steel Timber or Contractors' Dolly made of Steel & Cast Iron Roller Bearings with or without Rubber Tires), Dayton, O.
Clark, Geo. P. Co., Windsor Locks, Conn.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.), York, Pa.
Gillette Roller Bearing Co., Grand Rapids, Mich.
Globe Vise & Truck Co., Grand Rapids, Mich.
Howe Scale Co., Rutland, Vt.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
**LYON METALLIC MFG. CO. (Steel).** Aurora, Ill. (See adv. index & branch offices, end of book)
McKinney Mfg. Co., N S, Pittsburg, Pa.
Nutting Truck Co., Faribault, Minn.
Ohio Ceramic Engineering Co., Cleveland, O.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Zering, H. Mfg. Co., Cincinnati, O.

## 12431– Trucks (Brick)

American Clay Machinery Co., Bucyrus, O.
Anderson Foundry & Machine Works, Anderson, Ind.
Arnold-Creager Co., New London, O.
**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)**
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 416 Broome, New York
Fernholtz Brick Machinery Co., Boyle & Old Manchester avs, St. Louis, Mo.
Gillette Roller Bearing Co., Grand Rapids, Mich.
Gregg Company (Ltd.), Lodi, N. J.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Means Engineering & Foundry Co., Toronto, O.
Northern Engineering Works, Detroit, Mich.
Peteler Car Co., Minneapolis, Minn.
Potts, C. & A. & Co., Indianapolis, Ind.
Raymond, C. W. Co., Dayton, O.
Steele, J. C. & Son, Statesville, N. C.
Wellington Machine Co., Wellington, O.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

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ERNST WIENER COMPANY
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12432–Trucks (Canning Factory)

Chase Foundry & Mfg. Co., Columbus, O.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

## 12433– Trucks (Canvas)

Lane, W. T. & Bro. (Canvas with Steel Frame), Poughkeepsie, N. Y.

## 12434–Trucks (Car, Steam & Electric)

American Steel Foundries (Steam), Commercial Nat. Bank bldg, Chicago, Ill.
Baldwin Locomotive Works (Steam & Electric), 500 N Broad, Phila., Pa.
Baltimore Car-Wheel Co. ("Lord Baltimore"), Baltimore, Md.
Barney & Smith Car Co. (Steam & Electric), Dayton, O.
Bemis Car Truck Co., Springfield, Mass.
Bettendorf Axle Co. (All Steel for Steam Roads Only), Davenport, Ia.
Bloomsberg Car Mfg. Co., Bloomsburg, Pa.
Brill, J. G. Co. ("Perfect," "Universal," "Ideal," "Eureka"), 62d & Woodland av, Phila., Pa.
Cambria Steel Co. (Tender & Engine), Johnstown, Pa.
Cincinnati Car Co., Cincinnati, O. town,
Commonwealth Steel Co. (Cast Steel, Four or Six-Wheel Truck Frame In One Piece), 112 N 4th, St. Louis, Mo. Works, Granite City, Ill.
Couple Gear Freight Wheel Co. (Electric & Gasoline Only), Grand Rapids, Mich.
Curtis Motor Truck Co. ("Curtis" All Forged Elevated & Subway, etc.), Decatur, Ill.
Danville Car Co., Danville, Ill.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Hammond, J. & Co. (Car, Electric Railway), San Francisco, Cal.
Kuhlman, G. C. Car Co., Cleveland, O.
Laconia Car Works Co. (Electric), 100 Boylston, Boston, Mass. Works: Laconia, N. H.
Long, E. G. Co. ("Peckham"), 50 Church, New York
McGuire-Cummings Mfg. Co. ("Columbian," Electric, etc.), 400 N Sangamon, Chicago, Ill.
Pressed Steel Car Co. (Pressed Steel, Freight & Engine Tender, etc.), Pittsburg, Pa.
**RUSSEL WHEEL & FOUNDRY CO.** (Steam Only, Industrial), Detroit, Mich. (See adv. index, end of book)
St. Louis Car Co., St. Louis, Mo.
Sheffield Car Co. (Electric Motor), Three Rivers, Mich.
Standard Car Truck Co. ("Barber" Roller-Bearing Passenger, Electric & Freight Car, Locomotive Tender, etc.), McCormick bldg, Chicago, Ill.
Standard Steel Car Co. (Steel Frames & Steel Underframes for Wooden Cars), Frick bldg., Pittsburg, Pa.
Stevenson, Jno. Co., Elizabeth, N. J.
Taylor Electric Truck Co. ("Empire State"), Troy, N. Y.
Valley Forging Co. ("Forsyth" Expanded Rolled Steel), Verona, Pa.
Wason Mfg. Co., Springfield, Mass.
**WESTINGHOUSE MACHINE CO.,** Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)

## 12434a–Trucks (Concrete)

Burness Concrete Truck Co. ("Burness" All Steel), Omaha, Neb.

## 12435–Trucks (Concrete Mixer)

**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**ELECTRIC WHEEL CO. Quincy, Ill.** (See adv. index, end of book)

## 12436–Trucks (Core Oven)

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO.** (Steel), New Britain, Conn. (See adv. index, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt, New York. (See adv. index, end of book)**
Sterling Wheelbarrow Co. ("Sterling"), Milwaukee, Wis.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 12437–Trucks (Dry Kiln)

American Blower Co., Detroit, Mich.
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)**
Bancroft & Co., 5th and Chestnut, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 416 Broome, New York.
Gillette Roller Bearing Co. ("Everlasting"), Grand Rapids, Mich.
Glascock Stove & Mfg. Co., Greensboro, N. C.
Gregg Company (Ltd.), Lodi, N. J.
Michigan Mfg. & Lumber Co. ("Michigan"), Holly, Mich.
North Coast Dry Kiln Co., Seattle, Wash.
Ohio Ceramic Engineering Co., Cleveland, O.
Peteler Car Co., Minneapolis, Minn.
**STURTEVANT, B. F. CO., Hyde** Park, Mass. (See adv. index & branch offices, end of book)
Union Iron Works Co., Salem, Ala.
Western Wheelbarrow & Mfg. Co., Kansas
Wickes Bros., Saginaw, Mich. City, Kans.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 12438–Trucks (Dye House)

Clark, Geo. P., Co., Windsor Locks, Conn.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Zering, H., Mfg. Co., Cincinnati, O.

## 12439– Trucks (Farm)

Ben-Hur Truck Co. ("Ben-Hur", Body & Handle, One Piece for Barn, House, Store, etc.), 21 Quincy, Chicago, Ill.
**ELECTRIC WHEEL CO., (Traction), Quincy, Ill. (See adv. index, end of book)**
Farmers Handy Wagon Co. (Metal Wheel), Saginaw, Mich.
Havana Metal Wheel Co., Havana, Ill.
**INTERNATIONAL HARVESTER CO.** of America ("Columbus," "Sterling," "Buckeye," "Bettendorf"), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
King & Hamilton Co., Ottawa, Ill.
**LITTLE, J. R. METAL WHEEL CO.,** Quincy, Ill. (See adv. index, end of book)
Peru Plow & Wheel Co., Peru, Ill.
Racine-Sattley Co. ("Racine"). Racine, Wis., & Springfield, Ill.

## 12440–Trucks (Foundry)

**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)**
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Buda Co., Railway Exch. bldg, Chicago, Ill.
Byram & Co., Detroit, Mich.
Chase Foundry & Mfg. Co., Columbus, Ohio.
Gregg Company (Ltd.), Lodi, N. J.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO.** (Steel), New Britain, Conn. (See adv. index, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

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Ohio Ceramic Engineering Co., Cleveland, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Peteler Car Co., Minneapolis, Minn.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Wis.
**SMITH, J. D. FOUNDRY SUPPLY CO.,** Cleveland, O. (See adv. index, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Sterling Wheelbarrow Co. ("Sterling" Foundry & Pig Iron), Milmaukee, Wis.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitehurst, R. W & Co., Norfolk, Va.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices. end of book)

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## Trucks (Freight)
(See Wagons, Freight, Teaming, etc.)

### 12441—Trucks (Galvanized Iron Tank)
Armstrong Truck Co., North Wales, Pa.

### 12442—Trucks (Gasoline Engine)
**ELECTRIC WHEEL CO. ("Electric"),** Quincy, Ill. (See adv. index, end of book)
Peerless Cream Separator Co., Waterloo, Ia.

### 12443—Trucks (Gasoline Motor)
(See also Automobile Builders)
**ABENDROTH & ROOT MFG. CO.** (For Commercial Use up to 5 tons), Newburgh, N. Y. (See adv. index & branch offices, end of book)
American Motor Truck Co. (Commercial), Kalamazoo, Mich.
Avery Co., Peoria, Ill.
Lockport, N. Y.
Kelly Motor Truck Co. (Air Cooled), Springfield, O.
Megow, C. F. Co. ("Champion," Commercial Trucks), Milwaukee, Wis.
Owosso Motor Co., Owosso, Mich.
**Packard Motor Car Co. ("Packard"), Detroit, Mich.**
Plymouth Motor Truck Co. ("Plymouth," Commercial), Plymouth, O.
Reliance Motor Truck Co., Owosso, Mich.

### 12444— Trucks (Hand)
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)

### 12445—Trucks (Hook & Ladder)
American-La France Fire Engine Co. (Extension, etc.), Elmira, N. Y.
Howe Engine Co., **Indianapolis, Ind.**
Perkins, C. N. Co., Lawrence, Mass.
Portland Extension Ladder Co., 130 Orange,
Seagrave Co., Columbus, O. Newark, N. J.
Stewart, A. F. & S. C., Rochester, N. Y.

### 12446— Trucks (Ingot)
(See also Trucks, Rolling Mill)
Gregg Company (Ltd.), Lodi, N. J.
Jones & Laughlin Steel Co., Pittsburg, Pa.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Weimer Machine Works Co., Lebanon, Pa.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices. end of book)

### 12446a—Trucks (Laundry)
Armstrong Truck Co. (Canvas or Wood), North Wales, Pa.

### 12447—Trucks (Logging & Lumber)
American Sawmill Machinery Co. (Lumber), Hackettstown, N. J.
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
Atkins, E. C. & Co., Indianapolis, Ind.
**ATLAS CAR & MFG. CO., 1289 Marquette** rd, N E, Cleveland, O. (See adv. index & branch offices, end of book)
Bain Wagon Co., Kenosha, Wis.
**Bancroft & Co., 5th & Chestnut, Phila., Pa.**
Benson, A. W. Mfg. Co. ("Benson" Three-Wheel, Rail-less Trains), Minneapolis, Minn.
**Boston & Lockport Block Co., Boston, Mass.**
Buffalo Forge Co., Buffalo, N. Y.
Chase Foundry & Mfg. Co., Columbus, O.
**City Forge & Iron Works, Dayton, Ohio**
**Clark, Geo. P. Co., Windsor Locks, Conn.**
Diamond Iron Works, Minneapolis, Minn.
**ELECTRIC WHEEL CO. ("Electric")** Quincy, Ill. (See adv. index, end of book)
Fairbanks Co., 46 Broome, New York
Fish Bros. Wagon Co., **Racine, Wis.**
Glascock Stove & Mfg. Co., Greensboro, N. C.
Gillette Roller Bearing Co. (Ball Bearing), **Grand Rapids, Mich.**
Gregg Company (Ltd.), Lodi, N. J.
Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala
**INTERNATIONAL HARVESTER CO.** of America, 230 Harvester bldg. Chicago, Ill. (See adv. index & branch offices, end of book)
Kanawha Mine Car Co., **Charleston, W. Va.**
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Kramer Wagon Co., Oil City, Pa.
Lane Mfg. Co., Montpelier, Vt.
Lansing Wagon Works, **Lansing, Mich.**
Luedinghaus-Espenschier Wagon Co., St. Louis,
Lyon Iron Works, Greene, N. Y. Mo.
Merry Machine Works (All Kinds), **Memphis, Tenn.**
Michigan Mfg. & Lumber Co. (Roller Bearing Yard Truck), Holly, Mich
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
National Dry Kiln Co. (Steel Rolling Bearing Stave Bolt, Heading & Stave Trucks), Indianapolis, Ind.
North Coast Dry Kiln Co., Seattle, Wash.
Ohio Ceramic Engineering Co., Cleveland, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Peteler Car Co., Minneapolis, Minn.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Seattle Car Mfg. Co., Seattle, Wash.
Sheffield Car Co., Three Rivers, Mich.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Standard Saw Mill Machinery Co., Erie, Pa.
Strait, H. N. Mfg. Co., Kansas City, Kans.
Streich, A. & Bro. Co., **Oshkosh, Wis.**
Towsley, John T. Mfg. Co. (Lumber), Cincinnati, O.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

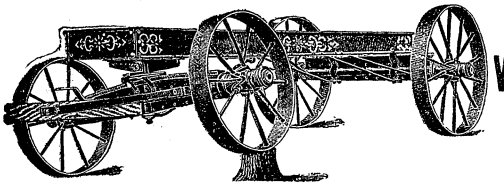
Zering, H. Mfg. Co. (Lumber), Cincinnati, O.

### 12448— Trucks (Mill)
**AMERICAN VULCANIZED FIBRE CO,** ("Laminar" Dept.), Wilmington, Del. (See adv. index, end of book)
Burlington Basket Co., Burlington, Ia.
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (Hard** Fibre). Elsmere, Del. (See adv. index,
Morris & Co., Groveville, N. J. end of book)
Spaulding-Perkins Co., No. Rochester, N. H.
United States Truck & Supply Co. ("Hercules" Self Loading, Monolithic Cloth, Monolithic Dye, House, Spool & Bobbin & Special Factory Trucks), Land Title bldg, Phila., Pa.

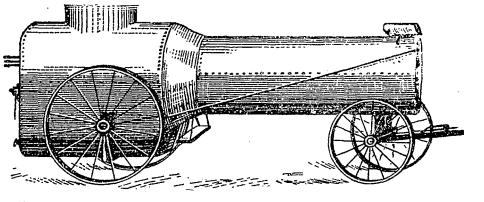
### 12449— Trucks (Motor)
Chase Foundry & Mfg. Co., Columbus, O.
Chester Engineering & Machine Co. (Gasoline), Chester, Pa.
**WESTINGHOUSE MACHINE CO.,** Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)

### 12450—Trucks (Nail Keg)
**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)

### 12451—Trucks (Packers')
Armstrong Truck Co., North Wales, Pa.
**BALTIMORE COOPERAGE CO., THE** (For Butchers' & Packers'), cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)



**BUILDERS OF WOOD and STEEL TRUCKS FOR**



Mounting Engines of all kinds, Concrete Mixers, Portable Steam Boilers and Machinery of all kinds. Also complete line of Farm and Handy Wagons, Contractors' Dump Carts, Timber Carts and Heavy Freighting Cars for team or traction power.

GASOLINE TRACTION TRUCKS---Complete or Any Parts. Write for Catalog.
Mention line you are interested in.

**ELECTRIC WHEEL CO.,** Station D, QUINCY, ILL., U. S. A.

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Chase Foundry & Mfg. Co., Columbus, O.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices. end of book)
Kilbourne & Jacobs Mfg. Co. (Steel or Wood), Columbus, O.
**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., Pittsburg, Pa.
Sterling Wheelbarrow Co. ("Sterling" Sanitary), Milwaukee, Wis.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Zering, H. Mfg. Co., Cincinnati, O.

## 12451a—Trucks (Paper Mill)

Armstrong Truck Co., North Wales. Pa.

## 12452— Trucks (Pipe)

Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gannett Electrical Co. ("Gannett." Handy), Providence, R. I.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Phillips, Doup & Co., 56 Pearl. Brooklyn, N. Y.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12453—Trucks (Plate Glass)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
National Roll & Foundry Co. (Transfer), Avonmore, Pa.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Zering, H. Mfg. Co., Cincinnati, O.

## 12454—Trucks (Printers' Form)

Armstrong Truck Co., North Wales, Pa.
**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.

## 12454a—Trucks (Publishers' Packing)

Armstrong Truck Co., North Wales, Pa.

## 12455—Trucks (Radiator)

Detroit Injector & Brass Mfg. Co. ("Armstrong"), Detroit, Mich.

## 12456—Trucks (Roll Paper)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
Clark, Geo. P. Co., Windsor Locks, Conn.
Illinois Iron & Bolt Co. ("Hercules" All Steel) Carpentersville, Ill.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Northern Engineering Works, Detroit, Mich.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Zering, H. Mfg. Co., Cincinnati, O.

## 12457—Trucks (Rolling Mill)

(See also Trucks, Foundry)
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 186 Lafayette, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Company (Ltd.), Lodi, N. J.
Hockensmith Wheel & Mine Car Co., Penn Station, Pa.
Jones & Laughlin Steel Co. (Ltd.), Pittsburg, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Morgan Construction Co., Worcester, Mass.
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices. end of book)

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
Spicer Mfg. Co., New Philadelphia, O.
Weimer Machine Works Co., Lebanon, Pa.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Zering, H. Mfg. Co. (Bar Iron, etc.), Cincinnati, O.

## 12458—Trucks (Scoop, Self-Loading)

Stephens-Adamson Mfg. Co. ("S-A"), Aurora, Ill.

## 12459—Trucks (Sheet Iron)

(See Trucks, Rolling Mill)

## 12460— Trucks (Slag)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Power & Mining Machinery Co. (Cast or Steel Plate Bow), Cudahy, Wis.
Traylor Engineering Co. ("Traylor," Elliptical Bowl), Allentown, Pa., & 30 Church, New York

## 12461—Trucks (Slate Quarry)

**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)

## 12462—Trucks (Steel Factory, Etc.)

Angle Steel Stool Co., Otsego, Mich.
Gillette Roller Bearing Co., Grand Rapids, Mich
Globe Vise & Truck Co., Grand Rapids, Mich.
Illinois Iron & Steel Co. ("Hercules" All Steel for Railroad, Mill, etc.), Carpentersville, Ill.
Library Bureau (Office), 530 Atlantic av, Boston, Mass.
**NEW BRITAIN MACHINE CO.** (2 & 3 Tray), New Britain, Conn. (See adv. index, end of book)
Ohio Galvanizing & Mfg. Co., Niles, O.
Van Dorn Iron Works Co. (Steel Drying & Bread Trucks), Cleveland, O.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.

## 12463—Trucks (Steel, Gasoline Engine)

**ELECTRIC WHEEL CO. ("Electric"),** Quincy, Ill. (See adv. index, end of book)

## 12464—Trucks (Steel, Office & Vault)

**FIRE-PROOF FURNITURE & CON**struction Co., Miamisburg, O. (See adv. index, end of book)

## 12465—Trucks (Store, Warehouse & Factory)

Akron Cultivator Co., Akron, O.
**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
**ARCHER IRON WORKS CO., 34th** pl & Western av, Chicago, Ill. (See adv. index, end of book)
Armstrong Truck Co. (Ball Bearing), North Wales, Pa.
**ATLAS CAR & MFG. CO., 1289 Mar**quette rd, N E, Cleveland, O. (See adv. index, end of book)
**BALTIMORE COOPERAGE CO., THE,** cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Belcher & Taylor Agl. Tool Co., Chicopee Falls, Mass.
Boston & Lockport Block Co., Boston, Mass.
Buffalo Scale Co., Buffalo, N. Y.
Chaffee Bros. Co., Oxford, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
City Forge & Iron Works. Dayton, O.
Chicago Scale Co., 1021 W Jackson boul, Chicago, Ill.
Clark, Geo. P. Co., Windsor Locks, Conn.
Columbian Mail Crane Co. ("Columbian" Steel), 898 Factory, Columbus, O.
Day, J. H. & Co., Cincinnati, O.
Defiance Box Co., Defiance, Ohio
Dietz, Fred Co., 1102 Madison av, Indianapolis, Ind.
Fairbanks Co., Lafayette cor Broome, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.), York, Pa.
Gannett Electrical Co. ("Gannett." Handy for Almost Any Purpose), Providence, R. I.
Gillette Roller Bearing Co., Grand Rapids, Mich.
Glascock Stove & Mfg. Co., Greensboro, N. C.
Globe Vise & Truck Co., Grand Rapids, Mich.
**GRAMMES, L. F. & SONS, Allentown, Pa.** (See adv. index, end of book)
Grand Rapids Hand Screw Co., Grand Rapids, Mich.
Howe Scale Co., Rutland, Vt.
Illinois Iron & Bolt Co. ("Hercules" All Steel) Carpentersville, Ill.
Johnson & Hibbard, Westfield, Mass.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Leatheroid Mfg. Co. (Leatheroid), Kennebunk, Me.
**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
Messinger Mfg. Co., Tatamy, Pa.
Michigan Mfg. & Lumber Co., Holly, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Nutting Truck Co., Faribault, Minn.
Ohio Ceramic Engineering Co. (Steel Frame), Cleveland, O.
Packer, Thos. ("Bristol's"), Union City, Conn.
Peck-Hamre Mfg. Co. (Automatic), Berlin, Wis.
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Putnam & Co., 244 Water, New York
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
Sheffield Car Co., Three Rivers, Mich.
Schriver, O. P. & Co. ("I. X. L."), Cincinnati, O.
Sidney Steel Scraper Co., Sidney, O.
Spicer Mfg. Co., New Philadelphia, O.
Standard Scale & Supply Co., Pittsburg, Pa.
Streich, A. & Bro. Co., Oshkosh, Wis.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Tanner, D. F., Holland, N. Y.
Towsley, John T. Mfg. Co., Cincinnati, O.
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
United States Truck & Supply Co. ("Hercules" Self Loading), Land Title bldg, Phila., Pa.
Westbrooks Elevator Co., Danville. Va.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.
Zering, H. Mfg. Co., Cincinnati, O.

## 12466— Trucks (Stove)

**ARCADE MFG. CO. ("Baltzy" Steel,** "Standard" Adjustable & "Perfect" Steel), Freeport, Ill. (See adv. index, end of book)
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Barnes Mfg. Co., Mansfield, Ohio
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, Ohio
Clark, George P. Co., Windsor Locks, Conn.
Fairbanks Co., 416 Broome, New York
Hill, C. V. & Co., Trenton, N. J.
Howes, S. M. Co., 40 Union, Boston, Mass.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Kramer Bros. Foundry Co., Dayton, Ohio.
Mersick, C. S. & Co., New Haven, Conn.
Schriver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.

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Tucker & Dorsey Mfg. Co. ("Daisy"), Indianapolis, Ind.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Whitehurst. R. W. Co., Norfolk, Va.

## 12467—Trucks (Tote Box)

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)
**NEW BRITAIN MACHINE CO.** (Steel), New Britain, Conn. (See adv. index, end of book)

## 12468—Trucks (Tramway)

**WESTINGHOUSE MACHINE CO.,** Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)

## 12469—Trucks (Triangular)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
**OSBORN MFG. CO., 5401 Hamilton** av, N E, Cleveland, O. (See adv. index, end of book)

## 12470—Trucks (Varnish Kettle)

Frelinger, J. G. Iron Works (Roller Bearing), Cincinnati, O.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York; Works: Newburgh, N. Y.

## 12471—Trucks (Wall Paper)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Zering, H. Mfg. Co., Cincinnati, O.

## 12472— Trucks (Waste)

**LYON METALLIC MFG. CO. (Steel),** Aurora, Ill. (See adv. index & branch offices, end of book)

## 12473—Trucks (Wire Mill)

**ATLAS CAR & MFG. CO., 1289 Marquette** rd, Cleveland, O. (See adv. index, end of book)
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Bates Machine Co., Joliet, Ill.
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., Lafayette cor Broome, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Industrial Car Co., West Park, Ohio
Morgan Construction Co., Worcester, Mass.
Ohio Ceramic Engineering Co., Cleveland, O.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
**WRIGHT WIRE CO. (Iron Dry** House), Worcester, Mass.

## 12474— Trumpets (Fire)

**Braxmar, C. G. Co., 10 Maiden la, New York**
**Cairns & Bro., 186 Lafayette, New York**
**International Silver Co., Meriden, Conn.**
**Mechanical Rubber Co., 73 Reade, New York**

## 12475— Trunk Mfrs.

### ALABAMA.

BIRMINGHAM—Gilbert Trunk Factory

### CALIFORNIA.

LOS ANGELES—Cunningham, J. C.
Herbert & Lindsey
Whitney, F. J.
Whitney, G. U.
SAN DIEGO—Phillips, G. A.
San Diego Trunk Co.
SAN FRANCISCO—Hirschfelder & Meaney
Malm, C. A. & Co., 1215 Sutter
Pacific Trunk & Bag Co.

### COLORADO.

DENVER—Meek Trunk & Bag Co.
Schwayder Trunk Mfg. Co.
PUEBLO—Pueblo Trunk Co.

### DELAWARE.

WILMINGTON—Delaware Hard Fibre Co.

### DISTRICT OF COLUMBIA.

WASHINGTON—Langlotz, G. G. & Co.

### FLORIDA.

JACKSONVILLE—Florida Trunk Mfg. Co.

### GEORGIA.

ATLANTA—Hightower Box & Tank Co.
Pinnacle Trunk Mfg. Co.
AUGUSTA—Augusta Trunk Factory
Wilson-Rigsby Trunk Co.
SAVANNAH—Chatham Trunk Factory
Mayle, E.

### ILLINOIS.

CHICAGO—American Trunk & Case Co., 155 Becker, P. & Co., 254 Monroe 5th av
Billburg & Co., 574 N Wells
Fitzgerald Trunk Co. (Sample, Sole Leather), 407 N Wells
Hartmann Trunk Co., 200 Jackson boul
Haskell Bros. (Sample), Wabash av cor Washington
Herron-Bentz Mfg. Co., 98 Market
Kretchmar, A. & Co., 154 5th av
Lynch Wall Trunk Co., 46 Jackson boul
McNamara, J. H. Trunk Co., 298 W Madison
Schulman Bros. Trunk Co., 298 W Madison
Secor, M. M. Trunk Co., 208 Van Buren
Stone Bros. & Co., 261 S Desplaines
Taylor, C. A. Trunk Works, 130 W Madison
Weick, Martin Mfg. Co., 1051 N 41st
Wilt, Chas. T., 180 Wabash av
DECATUR—Moore, J. R. & Co.
QUINCY—Gem City Trunk Mfg. Co.

### INDIANA.

EVANSVILLE—Evansville Trunk Co.
KOKOMO—Kokomo Trunk Co.

### IOWA.

DES MOINES—Des Moines Trunk Factory
DUBUQUE—Enzler, Jos. A.
SIOUX CITY—Anthony, D. S.

### KANSAS.

ATCHINSON—Rose Trunk Co.
TOPEKA—Hossfeld, Geo. V.

### KENTUCKY.

LOUISVILLE—Botts, P. J. & Co.
Duffey, Thos. & Co.
Laub Bros.

### LOUISIANA.

NEW ORLEANS—Mack Trunk Co., Ltd.
New Orleans Trunk Co.

### MAINE.

BANGOR—Parkhurst, J. F. & Son Co.
KENNEBUNK—Leatheroid Mfg. Co. (Sample)

### MARYLAND.

BALTIMORE—Dunn, C. J. & Co., 27 W Baltimore
Jones & Schwarzkopf
McGee, John, 108 N Howard
Pragel, Geo. (Fibre Sample Trunks)
Richards Trunk Co.
Tuerke, Wm. A.
Weishert Trunk Co.

### MASSACHUSETTS.

BOSTON—Cummings', Josiah Son & Co. (Rawhide, Vulcanized Fibre), 657 Atlantic av
Cutter & Cutter, 22 Chauncy
New England Trunk Co., 125 Summer
Winship, W. W., 71 Summer
SALEM—Maude, Wm. H.
SOMMERVILLE—Horton & Hubbard Mfg. Co.
WESTFIELD—Crame Brothers (Linenoid)

### MICHIGAN.

DETROIT—Maier, Martin & Co., 102 Woodward av
Meier, Jacob F. Co., Milwaukee av & Grand Trunk Ry
Standard Trunk Co., 143 Jefferson av
Theisen, M. J. Co., 982 Scotten av
Wedell & Boers, 123 Jefferson av
GRAND RAPIDS—Groskopf Brothers
SAGINAW—Lieberman Trunk Co.
WYANDOTTE—Beals & Selkirk Trunk Co. (Leather)

### MINNESOTA.

MINNEAPOLIS—Barnum Trunk Co.
Flour City Trunk Co.
Lorenz, Wm. Trunk Co.
Northwestern Trunk Co.

### MISSOURI.

JOPLIN—Sanders Trunk Mfg. & Merc. Co.
KANSAS CITY—Excelsior Trunk Co.
ST. JOSEPH—Herbold, A. E.
Heumader, C. & Son
ST. LOUIS—George, W. F. & Co.
Hamburger, Leo.
Horn, T. L. Trunk Co.
Murphy, P. C. Trunk Co., 504 N 3rd
Quirk, James A., 114 S 4th
Rosenfeld, Morris
St. Louis Basket & Box Co.
Story, F. E.
Stromberg, Kraus & Co., 620 Washington av
Wallis & Zimmerly

### NEW JERSEY.

HARRISON—Headley & Farmer Co. (Sole, Leather & Toy)
NEWARK—Caille, P. Co. (Sole Leather)
Goldsmith, L. & Son (Wardrobe)
Peddie, T. B. & Co. Inc. (Sample, Sole Leather, Toy)
Steiger Trunk & Bag Co.

### NEW YORK.

BUFFALO—Bingham Trunk Co.
Buffalo Trunk Mfg. Co., 127 Cherry
NEW YORK—Ajax Trunk & Sample Case Co., 91 Mercer
Beals & Selkirk Trunk Co., 558 B'way
Berner & Freedman, 34 Howard
Boyle, John & Co., 112 Duane
Co-Operative Trunk & Bag Co., 1 Beaver
Crouch & Fitzgerald, 177 B'way (Sample, Sole Leather)
Drucker, N. & Co., 558 B'way
Emergency Trunk & Bag Co., 25 E 14th
Empire Trunk Mfg. Co., 824 B'way
Fiberide Sample Trunk Co., 43 Mercer
Globe Trunk Co., 66 W 125th
Hahn & Amberg, 569 Broadway
Innovation Trunk Co., 313 W 15th
Leatheroid Mfg. Co., 532 Broadway
Lercher, A., 101 Bowery
Lissa, Hy. & Co., 595 B'way
Manhattan Trunk Box Factory, 505 E 18th
Manhattan Trunk Co., 206 Spring
Manhattan Trunk & Leather Goods Co., 2271 3rd av
New York Trunk Box Factory, 317 E 22nd
New York Trunk & Bag Co., 268 Bowery
Newark Trunk Co., 15 W 42nd
Peddie, T. B. & Co., 368 Broadway
Standard Trunk Mfg. Co., 599 B'way
Taylor, C. A. Trunk Works, Inc., 131 W
Union Trunk & Bag Co., 156 5th av 38th
Utility Trunk Co., 409 W 14th
Wolff, Chas. W., 72 Cortlandt
ROCHESTER—Likly, Henry & Co. (Wardrobe, Zelter-Blum Co. Sample, etc.)
SYRACUSE—Syracuse Trunk Works
UTICA—Faber, H. C. & Son Co. (Combination)

### OHIO.

CINCINNATI—American Trunk Co.
Drucker, N. & Co. (Sample)
McGuire, M. A. & Son
Mendel & Co., 113 W Pearl
CLEVELAND—Cleveland Trunk Co.
Englehart Trunk Co.
Feigenbaum Trunk Co.
Likly & Rocket Trunk Co.
COLUMBUS—Hughes, Jno. R. & Co., 40 N High
Stallman, F. A. (Dresser)
DEFIANCE—Fabric Leather Co.
TOLEDO—Duguid, Jno. B., Prospect av & M C R R
Wilmington & Co.

### OREGON.

PORTLAND—Multnomah Trunk & Bag Co.
Portland Trunk Mfg. Co. (Leather)

### PENNSYLVANIA.

KENNETT SQUARE — Fibre Specialty Co. (Fibre Sample Trunks)
PHILADELPHIA—Belber Trunk & Bag Co., 1641 N Hancock
Copeland, Thos. W. & Co., 3904 Market
Deveney, J. B. & J., 411 Cherry
Leatheroid Mfg. Co., 922 Arch
Orenstein, Mayer, 1802 N 5th
Rangrow & Hall, Inc., 59 Laurel
Rhode Brothers, 1102 Passyunk av
Seafried Bros., 2811 Girard av
Seitz, J. H. & Sons, 414 Brown
Simons & Co. (Carpet)
PITTSBURG—Boyd, Boyd & Boyd Trunk Co.
Haines, Geo. S. Co.

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## RHODE ISLAND.

PROVIDENCE—Providence Trunk Co.

## TENNESSEE.

CHATTANOOGA—McKenney, G. E. Trunk Co.
KNOXVILLE—Southern Trunk Co.
Whittle Trunk & Bag Co.
NASHVILLE—Hill Trunk Co.
Nashville Trunk & Mfg. Co.
White Trunk & Bag Co.

## TEXAS.

AUSTIN—Austin Trunk Factory
DALLAS—Pollack, Henry Trunk Co.
Wilkins Trunk Mfg. Co.
EL PASO—Flanagan, J. J.
FORTH WORTH—Hoover, Wm. Trunk Co.
GALVESTON—John, R. H.

## UTAH.

SALT LAKE CITY—Gallacher, Jas. I.
Hulbere Bros.

## VIRGINIA.

PETERSBURG—Petersburg Trunk & Bag Co., Inc.
Seward Trunk & Bag Co.
Virginia Trunk & Bag Co.
Watson, Bernard & Rogers
RICHMOND—Richmond Trunk Mfg. Co., Inc.
Rountree & Bro. Trunk & Bag Co.
Union Trunk & Bag Co.

## WASHINGTON.

EVERETT—Everett Trunk Mfg. Co.

## WISCONSIN.

EAU CLAIRE—Eau Claire Trunk Co.
MADISON—Curtis-Dexter Co.
MILWAUKEE—Abel & Bach Co. (Sole Leather)
Burroughs, Geo. & Sons
Meincke, A. & Son (Toy)
Romadka & Brothers Co.
Schoen & Walter Co.
OSHKOSH—Bauer Trunk & Bag Co.
Oshkosh Trunk Co.
RACINE—Racine Trunk Co.
Secor, M. M. Trunk Co. (Sample, Toy, Sole Leather)

## 12476—Trunk & Bag Trimmings

(See also Hardware Manufacturers, Trunk & Bag)

Graton & Knight Mfg. Co. (Leather Handles, Straps, Corners, Loops, etc.), Worcester, Mass.
Jenkinson, R. C. & Co., Newark, N. J.
Keim, Jno. R. Mills (Inc.), Buffalo, N. Y.

## 12476a—"Trussit" Steel for Reinforcing Concrete

**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)

## 12477—Tryers (Butter & Cheese)

Humason & Beckley Mfg. Co. (Cast Steel), New Britain, Conn.

## 12478— Tryers (Ham)

American Cutlery Co., 193 Mather, Chicago, Ill.
Johnson, Wm. (Hedenberg W'ks), Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.
Stortz, Jno. & Son. 210 Vine, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.

## 12478a—Tube Mill Linings

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 12479—Tubes (Arch & Stay)

National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

## 12480—Tubes (Asbestos)

(See Tubing, Asbestos Braided)

## 12481— Tubes (Boiler)

(See also Pipe & Tube Mills)

**ALLEGHENY STEEL CO.** ("Reliance", Charcoal Iron & Steel), Farmers' Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Coatesville Rolling Mill Co. (Lap Welded Charcoal Iron 1¼ to 8 in. Diameter), Coatesville, Pa.
Delaware Seamless Tube Co. (Seamless Steel), Auburn, Pa.
Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless Steel), Detroit, Mich.
Globe Seamless Steel Tube Co. (Seamless Cold Drawn Steel), Milwaukee, Wis.
Mark Mfg. Co. (Lap Welded), Evanston, Ill.; Works: Zanesville, O.
Monongahela Tube Co., Pittsburg, Pa.
**NASON MFG. CO. (Jobbers), 71 Fulton,** New York. (See adv. index, end of book)
National Tube Co. (Spellerized Lap Welded & "Shelby" Seamless Steel Tubes), Pittsburg, Pa.
New Jersey Tube Co. (Spirally Corrugated), Harrison, N. J.
Ohio Seamless Tube Co. (Seamless Steel), Shelby, O.
Parkesburg Iron Company (Charcoal Iron), Parkesburg, Pa.
Reading Iron Co. (Wrought Iron), Reading, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Seamless Tube Co. of America (Seamless Drawn Steel), Pittsburg, Pa.
Spang, Chalfant & Co. (Inc.) (Butt & Lap Welded Wrought Iron & Steel), Pittsburg, Pa.
Tyler Tube & Pipe Co. (Lap Welded, Knobled Charcoal Iron & Algerite Iron Special), Washington, Pa.

## 12482— Tubes (Bonding)

Ristine Co. ("Acme"), The Rookery, Chicago, Ill.

## 12482a— Tubes (Bottle)

Aldrich Mfg. Co., Buffalo, N. Y.

## 12483— Tubes (Carbon)

National Carbon Co., Cleveland, O.

## 12484— Tubes (Carrier)

National Tube Co. (Gravity Carriers), Pittsburg, Pa.

## 12485—Tubes (Collapsible)

Consolidated Fruit Jar Co., New Brunswick, N. J.
National Can Co., Detroit, Mich.
Raymond Lead Co. (Tin or Composition), Lexington & Washtenaw, Chicago, Ill.
Standard Specialty & Tube Co., New Brighton, Pa.
Wirz, A. H., 917 Cherry, Phila., Pa.

## 12485a—Tubes (Drawing & Blue Print)

**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)

## 12486—Tubes (Flexible Threaded Seamless Refill)

S. & I. Co. (For Plumbers), Springfield, Mass.

## 12487— Tubes (Fuse)

**DELAWARE HARD FIBRE CO.** (Hard Fibre for Enclosed Fuses), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)

## 12488—Tubes (Grain Drill)

Akron Machine Co., Akron, O.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cincinnati Rubber Mfg. Co., Cincinnati, O.
**GOODRICH, B. F. CO. (Rubber), Akron,** O. (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Manhattan Rubber Mfg. Co., Passaic, N. J.
Morgan Spring Co. (Wire), Worcester, Mass.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)

## 12489—Tubes (Graphite)

International Acheson Graphite Co., Niagara Falls, N. Y.

## 12490— Tubes (Hinge)

U. S. Chaplet & Supply Co. (For Foundries), 140 Cedar, New York

## 12491—Tubes (Inner Automobile)

Continental Rubber Works, Erie, Pa.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Mansfield Rubber Co., Mansfield, O.
Mattson Rubber Co., Lodi, N. J.
Michelin Tire Co., Milltown, N. J.
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)

## 12491a—Tubes (Inner Bicycle)

**PENNSYLVANIA RUBBER CO.,** Jeanette, Pa. (See adv. index & branch offices, end of book)

## 12492—Tubes (Insulating)

(See Insulators; also Conduits)

## Tubes (Iron Lined)

(See Tubing, Iron Lined)

## 12493—Tubes (Locomotive, Spellerized)

National Tube Co., Pittsburg, Pa.

## 12494—Tubes (Mailing, Etc.)

American Paper Tube Co., Woonsocket, R. I.
Bibb Mfg. Co. (Paper), Macon, Ga.
Brown, Jas, Jr. (Paper & Worsted Tubes & Cones), Manayunk, Phila., Pa.
Chicago Mailing Tube Co., 425 S Hoyne av, Chicago, Ill.
Chicago Paper Tube & Can Co. (Paper for Mailing, Electrical Purposes, etc.), 20 N May, Chicago, Ill.
Detroit Paper Tube & Can Co. (Mailing, Tin End Cans, etc.), Detroit, Mich.
**ELLIOTT, B. K. CO., 108 6th, Pittsburg,** Pa. (See adv. index, end of book)
**MAKEPEACE, B. L., 387 Washington,** Boston, Mass. (See adv. index, end of book)
**PEASE, C. F. CO. (For Holding or** Mailing Plans), 167 Adams, Chicago, Ill. (See adv. index, end of book)
**ST. LOUIS PAPER CAN & TUBE CO.,** 3115 N B'way, St. Louis, Mo. (See adv. index, end of book)
**SOLIMANNEG**
(For Mailing, Drawing Prints, etc.; also everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)
Thompson & Norris Co., Prince & Concord, Brooklyn, N. Y.
Union Paper Co. (Also Cans. Boxes, etc.), 844 Washington, New York
United States Mailing Tube Co., 844 Washington, New York
Ware, R. F. Mailing Tube Co., 108 Park row, New York
Wilson, Wyle T., 1151 N 3d, Phila., Pa.

## 12494a— Tubes (Map)

**WILSON, F. CORTEZ & CO., 239** Lake, Chicago, Ill. (See adv. index, end of book)

## 12495—Tubes (Oil, Portable)

Ellison, Lewis M., 6238 Princeton av, Chicago, Ill.

## 12496— Tubes (Paper)

(See Tubes, Mailing, Etc.)

## 12497—Tubes (Porcelain)

Brunt, G. F. Porcelain Works (Glazed or Unglazed), East Liverpool, O.
Diamond Porcelain Co., Trenton, N. J.
Pass & Seymour, Solvay, N. Y.

## 12498— Tubes (Ribbon)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

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## 12499—Tubes (Weldless Steel)

Justice, Phillip & Co., 621 Chestnut, Phila., Pa.

## 12500— Tubes (Wire)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 12501— Tubes (Wiring)

(See Insulators; also Conduits)

## 12502—Tubes & Shapes (Resistance)

Electrical Alloy Co. ("Ideal" Lavite), Morristown, N. J.

## 12503—Tubing (Aluminum)

Aluminum Co. of America (Seamless), Pittsburg, Pa.
Ivins, Elwood Tube Works (Seamless), Oak Lane, Phila., Pa.

## 12504—Tubing (Asbestos Braided)

American Asbestos Co., Norristown, Pa.
Asbestos Fibre Spinning Co., North Wales, Pa.
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Keasby & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
Oil City Asbestos Co., Oil City, Pa.
**WATSON, H. F. CO., Erie, Pa. (See adv.** index & branch offices, end of book)

## 12505—Tubing (Bedstead)

Hart Steel Co. (High Carbon Steel, Butted & Brazed), Elyria, O.
Keystone Tube Works (Round & Square, Welded, etc.), Pittsburg, Pa.
National Tube Co. (Iron, "Shelby" Seamless Steel, Round, Square, Rectangular, etc.), Pittsburg, Pa.
Newark Tube & Metal Works, Newark, N. J.
New Jersey Tube Co. (Brass), Harrison, N. J.
Ohio Seamless Tube Co. (Seamless Steel), Shelby, O.
Phenix Tube Co. (Inc.) (Brass & Bronze Iron Lined), 182 N 11th, Brooklyn, N. Y.
Winelander & Jackson (Iron Lined Brass), 65 Clymer, Brooklyn, N. Y.

## 12506— Tubing (Beer)

**BOSTON BELTING CO., 256 Devonshire,** Boston, Mass. (See adv. index & branch offices, end of book)

## 12507— Tubing (Bicycle)

American Tube & Stamping Co., Bridgeport, Conn.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.
Standard Steel Tube Co. (Brazed, etc.), Toledo, O.

## 12508—Tubing (Brass Lined)

American Tube & Stamping Co. (Clincher), Bridgeport, Conn.

## 12509—Tubing (Brass & Copper)

American Brass Co., Waterbury, Conn.
American Tube Works (Seamless), 95 Broad, Boston, Mass.
Ansonia Brass & Copper Co., Ansonia, Conn.
Benedict & Burnham Mfg. Co. (Seamless Drawn), Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bridgeport Metal Goods Mfg. Co. (Pressed Drawn), Bridgeport, Conn.
Bristol Brass Co. (Brass Brazed Only), Bristol, Conn.
Buffalo Tube Co. ("Small"), Buffalo, N. Y.
Chicago Brass Co. (Seamless & Brazed), Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Cornelis, Gustave (Small Brass), Wolcott. Conn.
Croton Mfg. Co. (Brass), Croton on Hudson, N. Y.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
French Mfg. Co. (Seamless, Small Sizes Only), Waterbury, Conn.
**HUNGERFORD, U. T. BRASS & COP-** per Co. (Seamless), 497 Pearl, New York
Ivins, Elwood Tube Works (Small Seamless), Oak Lane Station., Phila., Pa.
Manhattan Brass Co., 338 E 28th, New York
**MERCHANT & EVANS CO. (Inc.) (Jobbers),** 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Michigan Copper & Brass Co. (Brazed & Seamless), Detroit, Mich.
New Jersey Tube Co. (Bent Brass, etc.), Harrison, N. J.
Randolph-Clowes Co. (Seamless), Waterbury, Conn.
Rome Brass & Copper Co. (Seamless or Brazed, also Bronze), Rome, N. Y.
Scovill Mfg. Co. (Brass Only), Waterbury,
Seymour Mfg. Co., Seymour, Conn. Conn.
Slade Tubing Co. (Seamless), Rome, N. Y.
Standard Brass & Copper Tube Co. (Seamless), New London, Conn.
**UNITED WIRE & SUPPLY CO.** (Seamless, also Brazed Brass & Copper Tubing), 109 Summer, Providence, R. I. (See adv. index, end of book)
Waterbury Brass Co. (Seamless Drawn), Waterbury, Conn.
Waterbury Mfg. Co. (Brass Brazed Only), Waterbury, Conn.
Wells, A. H. & Co. (Seamless), Waterbury, Conn.

## 12510—Tubing (Brazed Steel)

Newark Tube & Metal Works, Newaark, N. J.
Phenix Tube Co., Driggs av & 10th, Brooklyn,
Standard Steel Tube Co., Toledo, O. N. Y.

## 12511—Tubing (Bronze)

Ansonia Brass & Copper Co., Ansonia, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
French Mfg. Co. (Seamless, Small Sizes Only), Waterbury, Conn.
Manhattan Brass Co., 334 E 28th, New York
**MERCHANT & EVANS CO. (Inc.)** (Brazed), 517 Arch, Phila., Pa. (See adv. index and branch offices, end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Randolph-Clowes Co., Waterbury, Conn.
Rome Tube Co., Rome, N. Y.
Wells, A. H. & Co. (Seamless), Waterbury, Conn.

## Tubing (Celluloid)

(See Celluloid, Fibreloid & Pyrolin Manufacturers)

## 12512—Tubing (Cold Drawn Seamless Steel)

Detroit Seamless Steel Tubes Co., Detroit, Mich.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Globe Seamless Steel Tube Co., Milwaukee, Wis.
National Tube Co. ("Shelby"), Pittsburg, Pa.
Ohio Seamless Tube Co., Shelby, O.
Williams & Co., Pittsburg, Pa.

## 12513—Tubing (Condenser)

Benedict & Burnham Mfg. Co. ("Benedict" Nickel, Brass & Copper), Waterbury, Conn
**HUNGERFORD, U. T. BRASS & COP-** per Co. (Brass, Plain & Tinned), 497 Pearl, New York

## Tubing (Conduit)

(See Conduits)

## 12514— Tubing (Cotton)

Blakesley Novelty Co. (Cotton Knit), Bristol Conn.
Buffalo Weaving & Belting Co. (For Carrying Electric Wires Under Heat), Buffalo, N. Y.
Empire Mfg. Co., Lockport, N. Y.
Niedner, Chas. H. (Electric), Malden, Mass.

## 12515—Tubing (Flexible Fabric)

Atlantic Tubing Co. (Gas Pipe Tubing), Providence, R. I.
Automobile Supply Mfg. Co. (Brass & Copper, Airtight, for Light Pressure), 220 Taaffe pl, Brooklyn, N. Y.
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Caldwell Mfg. Co. (For Gas Stoves, Portable Lamps, etc.). Providence, R. I.
James Mfg. Co. ("Klingtite" Gas), Cleveland, Ohio
New York Belting & Packing Co., 91 Chambers, New York
New York Gas Tubing Co., 97 Bank, New York
Nicholls Tubing Co. (Gas Tubing), 477 10th av, New York
Voorhees Rubber Mfg. Co., Jersey City, N. J.

## 12516—Tubing (Flexible Metallic)

Almond, T. R. Mfg. Co. ("Almond," for Electric Light Brackets, Portables, etc), Ashburnham, Mass.
American Metal Hose Co., Waterbury, Conn.
Atlas Stamping & Flexible Tube Co. (High Pressure), 554 W 25th, New York
Automobile Supply Mfg. Co. (Brass & Copper, Light Pressure for Auto Horns, etc.), 220 Taaffe pl, Brooklyn, N. Y.
**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)
Kaufman, A. G. Mfg. Co., 133 Reade, New York
Manhattan Screw & Stamping W'ks, West End av & 67th, New York


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New York Metal Hose Co., 42 B'way, New York
Penna Flexible Metallic Tubing Co. (Copper or Steel High Pressure, etc.), 1305 Arch, Phila., Pa.
Schoen-Jackson Co., Media, Pa.
Sprague Electric Co., 547 W 34th, New York
U. S. Flexible Metallic Tubing Co., Los Angeles, Cal.

## 12517—Tubing (German Silver)

Ansonia Brass & Copper Co., Ansonia, Conn.
Bamford & Smith Co., Providence, R. I.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
French Mfg. Co. (Seamless, Small Sizes Only), Waterbury, Conn.
Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Summerill Tubing Co. (Seamless, Cold Drawn), 114 S 2nd, Phila., Pa.
**UNITED WIRE & SUPPLY CO.** (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)
Waterbury Brass Co., Waterbury, Conn.

## 12518— Tubing (Glass)

Bache, Semon & Co., West & Hubert, New York
Corning Glass Works (Electrical, Clinical, Thermometer, etc.), Corning, N. Y.
Durand, Victor, Jr., Vineland, N. J.
Fostoria Glass Specialty Co., Fostoria, O.
Gove, Hartley (Thermo), Vineland, N. J.
Libbey Glass Co., Toledo, O.
Pairpoint Corp'n (For Electrical Use), New Bedford, Mass.
Wagner Glass Works, 697 E 132d, New York

## 12518a—Tubing (Gold)

**UNITED WIRE & SUPPLY CO., 109 Summer**, Providence, R. I. (See adv. index, end of book

## 12519—Tubing (Gold & Silver Plated)

**UNITED WIRE & SUPPLY CO.** (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

## 12520—Tubing (Hard Fibre)

**AMERICAN VULCANIZED FIBRE** Co. (Vulcanized), Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.,** Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere**, Del. (See adv. index, end of book)
Empire Mfg. Co., Wilmington, Del.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
**MORRIS ELECTRIC CO. (Vulcanized)**, Wilmington, Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
Spaulding, J. & Sons Co., North Rochester, N.H.
**WILMINGTON FIBRE SPECIALTY** Co. (Vulcanized), Wilmington, Del. (See adv. index & branch offices, end of book)

## 12521—Tubing (Hard Rubber)

American Hard Rubber Co., 111 Mercer, New York
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Morgan & Wright, Inc., Detroit, Mich.
**MORRIS ELECTRIC CO., Wilmington, Del.**
Vulcanized Rubber Co., 488 B'way, New York
Wilkie Rubber Mfg. Co., Saugus, Mass.

## 12521a—Tubing (Hot Rolled Seamless Steel)

**FRASSE, PETER A. & CO., Canal & Sullivan, New York.** (See adv. index & branch offices, end of book)

## 12522—Tubing (Iron Lined)

Ansonia Brass & Copper Co., Ansonia, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Manhattan Brass Co., 334 E 28th, New York
Phoenix Tube Co. (Inc.) (Brazed, Lock Joint, Close Joint & Bent, Brass & Bronze), 182 N 11th, Brooklyn, N. Y.
Waterbury Brass Co., Waterbury, Conn.
Western Brass Mfg. Works, 21st & Campbell av, Chicago, Ill.
Winelander & Jackson (Brass), 65 Clymer, Brooklyn, N. Y.

## 12524—Tubing (Nickel Silver)

**UNITED WIRE & SUPPLY CO.** (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)
Wells, A. H. & Co. (Seamless), Waterbury, Conn.

## 12525— Tubing (Organ)

Chadwick-Boston Lead Co. (Composition), Boston, Mass.
National Lead Co., 111 B'way, New York

## 12525a—Tubing (Platinum)

**AMERICAN PLATINUM WORKS,** Chestnut st & N. J. R. R. av, Newark, N. J. (See adv. index, end of book)
Baker & Co., Newark, N. J.
Croselmire & Ackor Co., 42 Walnut, Newark, N. J.
Ivins, Elwood Tube Works, Oak Lane, Phila., Pa., & 487 B'way, New York

## 12526—Tubing (Porcelain)

Pittsburg High Voltage Insulator Co., Derry, Pa.

## 12528—Tubing (Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
B. & R. Rubber Co., North Brookfield, Mass.
**BOSTON BELTING CO., 260 Devonshire.** Boston, Mass., & 100 Reade. New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Canfield, H. O. Co., Bridgeport, Conn.
Combination Rubber & Belting Co., Bloomfield,
Continental Rubber Works, Erie, Pa. N. J.
Crescent Belting & Packing Co. (Corrugated & Plain), Trenton, N. J
Davol Rubber Co., Providence, R. I.
Diamond Rubber Co., Akron, Ohio
Empire Rubber Mfg. Co., Trenton, N. J.
Faultless Rubber Co., Ashland, O.
Federal Rubber Co., Cudahy, Wis.
Good Year India-Rubber Glove Mfg. Co., 503 B'way, New York
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book
Hamilton Rubber Mfg. Co., Trenton, N. J.
Hartford Rubber Works Co., Hartford, Conn.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York
Miller Rubber Mfg. Co., Akron, O.
Morgan & Wright (Inc.) (Hard Rubber), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.) ("Pure & C. I."), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO. (Acid,** High Pressure, Cloth Insertion, Steam, Gas, Oil, Fire Extinguisher, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co. (Chas. A. Daniel, Prop.), 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Republic Rubber Co., Youngstown, O.
Rubber Products Co., Barberton, O.
Sayen Rubber Co., Hamilton Sq., N. J.
Seamless Rubber Mfg. Co., New Haven, Conn.
Thermoid Rubber Co., Trenton, N. J.
Tyer Rubber Co., Andover, Mass.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 12529—Tubing (Rubber, Cloth Insertion)

**BOSTON BELTING CO., 260 Devonshire**, Boston, Mass. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)

## 12530—Tubing (Seamless Steel)

Delaware Seamless Tube Co., Auburn, Pa.
Detroit Seamless Steel Tubes Co. (Cold Drawn), Detroit, Mich.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Globe Seamless Steel Tube Co. (Cold Drawn), Milwaukee, Wis.
Ivins, Elwood Tube Works (Low Carbon Steel), Oak Lane, Phila., Pa.
Justice, Philip S. & Co. (Weldless Imported), 421 Chestnut, Phila., Pa.
National Tube Co. ("Shelby" Rounds, Squares, Octagonal, Oval, Hexagonal, D & Special Shapes & Sizes, Made Hard, Medium or Soft), Pittsburg, Pa.
Ohio Seamless Tube Co., Shelby, Ohio.
Pittsburg Seamless Tube Co., Beaver Falls, Pa.
Pittsburg Shafting Co. of Detroit, Detroit, Mich.
Standard Welding Co. (Electrically Welded), Cleveland, O.
Summerill Tubing Co. (Cold Drawn, Round & Square), 114 S 2nd, Phila., Pa.

## 12531— Tubing (Silver)

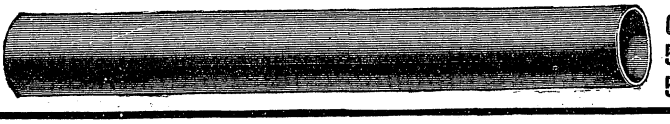
Ivins, Elwood Tube Works (Seamless), Oak Lane, Phila., Pa.
**UNITED WIRE & SUPPLY CO.** (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

## 12532—Tubing (Soft Steel)

Ivins, Ellwood Tube Works (Small Seamless), Oak Lane Sta., Phila., Pa.

## 12533—Tubing (Square)

Keystone Tube Works (Welded Agricultural, Bedstead, etc.), Pittsburg, Pa.
National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

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50 Exchange St., Buffalo, N. Y.

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## 12533a—Tubing (Square, Seamless Steel)

**BRAUN, J. G., 615 S Paulina, Chicago, Ill., & 537 W 35th, New York.** (See adv. index, end of book)

## 12534— Tubing (Steel)

(See also Tubing, Seamless Steel; also Pipe & Tube Mills)

American Steel & Tube Co., Lorain, O.
**American Tube Co., 37th & Rockwell, Chicago, Ill.**
American Tube & Stamping Co., Bridgeport, Conn.
Central Tube Co., Pittsburg, Pa.
Delaware Seamless Tube Co. (Seamless), Auburn, Pa.
Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless), Detroit, Mich.
**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Globe Seamless Steel Tube Co. (Cold Drawn Seamless Steel), Milwaukee, Wis.
Hazleton Steel Tube Co. (Butt Welded & Lap Welded), Hazleton, Pa.
Ivins, Ellwood Tube Works (Seamless), Oak Lane, Phila., Pa.
Keystone Tube Works (Round & Square Welded, Agricultural, Bedstead, etc.), Pittsburg, Pa.
National Tube Co. ("Shelby" Seamless for all Purposes), Pittsburg, Pa.
Newark Tube & Metal Works (Butt Joint), Newark, N. J.
Ohio Seamless Tube Co. (Seamless), Shelby, O.
Phenix Tube Co. (Brazed, Butted, Square & Twisted), Driggs av & 10th, Brooklyn, N.Y.
Pittsburg Seamless Tube Co., Beaver Falls, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
**Standard Steel Tube Co. (Brazed for Automobile, Bicycle, Baby Carriage, etc.),** Toledo, O.
Standard Welding Co., Cleveland, O.

## 12535—Tubing (Structural)

**Central Tube Co., Pittsburg, Pa.**
**Danville Structural Tubing Co., Danville, Pa.**
Hart Steel Co. (High Carbon Steel, Butted & Brazed), Elyria, O.
Keystole Tube Works, Pittsburg, Pa.

## 12536—Tubing (Tapered Seamless)

**UNITED WIRE & SUPPLY CO. (Gold, Silver, Brass & Copper),** 109 Summer, Providence, R. I. (See adv. index, end of book)

## 12537—Tubing (Tool Steel)

**FRASSE, PETER A. & CO., Canal &** Sullivan, New York. (See adv. index & branch offices, end of book)
Ivins, Ellwood Tube Works, Oak Lane Sta., Phila., Pa., & 487 B'way, New York

## 12538—Tubing (Wood Pipe, "Wyckoff")

**WYCKOFF, A. & SON CO., Elmira,** N. Y., & Alexandria, La. (See adv. index, end of book)

## 12539— Tubing (Zinc)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
**HUNGERFORD, U. T. BRASS & COP-**per Co., 497 Pearl, New York
Manhattan Brass Co., 338 E 28th, New York
**MERCHANT & EVANS CO. (Inc.)** (Brazed), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Scovill Mfg. Co., Waterbury, Conn.
**Waterbury Brass Co., Waterbury, Conn.**

## 12539a—Tubing & Nipples (Gas Lamp)

**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)

## 12540—Tubs (Galvanized Iron)

(See also Pails, Galvanized Iron)

Pritchard Stamping Co., Rochester, N. Y.
Wheeling Corrugating Co. (Wash Tubs), Wheeling, W. Va.

## 12541—Tubs (Hoisting & Dumping)

(See also Buckets, Various Kinds)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
**BROWN HOISTING MACHINERY CO.,** 4403 St. Clair, N. E., Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)
Clark, W. J. Co., Salem, O.
Coatesville Boiler Works, Coatesville, Pa.
Conveying Machinery Co. (Automatic Coal), 120 Liberty, New York
Dedrick's, P. K. Sons, Albany, N. Y.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
**FLORY, S. MFG. CO., Bangor, Pa.** (See adv. index, end of book)
Focht's, George Sons, Hoboken, N. J.
Frankford Foundry & Machine Works, Frankford, Phila., Pa.
Gregg Company (Ltd.), Lodi, N. J.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**INSLEY MFG. CO. (Automatic Con-**crete), Indianapolis, Ind. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
Littleford Bros., 453 E Pearl, Cincinnati, O.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Magor Car Co., 50 Church, New York
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
**NATIONAL IRON CO., Duluth, Minn.** (See adv. index & branch offices, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Phillips, Doup & Co. ("National"), 56 Pearl, Brooklyn, N. Y.
Sharon Boiler Works, Sharon, Pa.
Steubner, G. L. Iron Works, Long Island City, N. Y.
Turl's, John Sons (Inc.), 26 Cortlandt, New York: Works: Newburgh, N. Y.
Union Iron Works, Hoboken, N. J.

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Williams, G. H. Co., Rockefeller bldg, Cleveland, O.

## 12542— Tubs (Mash)

Honhorst, Joseph Co., Cincinnati, O.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Meyers, Otto C. & Co., 30 Franklin, Brooklyn, N. Y.
Novelty Steam Boiler Works (Triplett & Jenninge), 917 S Howard, Baltimore, Md.
Smith, Samuel & Son Co., Paterson, N. J.

## 12543— Tubs (Plant)

American Wooden Ware Mfg. Co. (Wooden), Toledo, O.
**BALTIMORE COOPERAGE CO., THE.** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 12544—Tubs (Self-Dumping)

(See also Tubs, Hoisting & Dumping)

Akron Cultivator Co., Akron, O.
**CARLIN'S, THOMAS SONS CO.,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
Focht's, Geo. Sons, Hoboken, N. J.
McMyler-Interstate Co., 1799 Columbus rd, Cleveland, O.

## 12545—Tubs (Wire Cleaning)

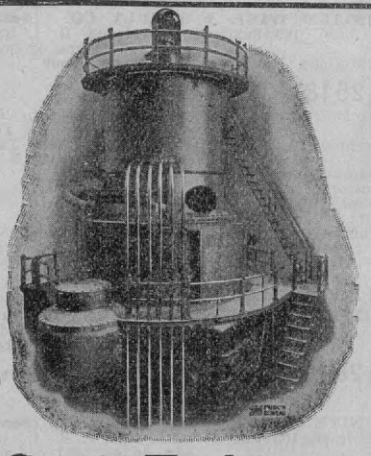
Morgan Construction Co., Worcester, Mass.
**WRIGHT WIRE CO., Worcester,** Mass.

## 12546—Tubs (Wooden Hoisting & Dumping)

**BALTIMORE COOPERAGE CO., THE.** cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

## 12547—Tumblers (Glass)

Cambridge Glass Co., Cambrige, O.
Canton Glass Co., Marion, Ind.
Central Glass Works, Wheeling, W. Va.
Consolidated Lamp & Glass Co., Coraopolis, Pa.
Crystal Glass Co., Bridgeport, O.
Dorflinger, C. & Sons, White Mills, Pa., & 36 Murray, New York
Duncan & Miller Glass Co., Washington, Pa.
Federal Glass Co., Columbus, O.
Fostoria Glass Co., Moundsville, W. Va.
Hawkes, T. G. & Co., Corning, N. Y.
Hazel-Atlas Glass Co., Wheeling, W. Va.
Heisey, A. H. & Co., Newark, O.

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Hermetic Closure Co., Chicago, Ill.
Huntington Tumbler Co., Huntington, W. Va.
Lancaster Glass Co., Lancaster, O.
U. S. Glass Co., Pittsburgh, Pa.

## 12548— Tumeric

Fuller & Fuller Co., 220 Randolph, Chicago, Ill.
Mortimer & Wissner, 68 Beaver, New York
Ransom, L. E. Co., 279 Pearl, New York

## 12549—Tungstate of Ammonia

Mineral Products Mfg. Co., Wilmington, Del.

## 12550—Tungstate of Soda

Mineral Products Mfg. Co., Wilmington, Del.
Primos Chemical Co., Primos, Pa.

## Tungsten

(See Ferro-Tungsten)

## 12551—Tungsten (Aluminum)

Mineral Products Mfg. Co., Wilmington, Del.

## 12552—Tungsten (Nickel)

Mineral Products Mfg. Co., Wilmington, Del.

## 12553—Turbine Water Wheels

(See also Water Wheels)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Barnard & Leas Mfg. Co., Moline, Ill.
Bartley, Wm. & Son ("The Watertight"), Bartley, N. J.
Blake, H. & Son, East Pepperell, Mass.
Camden Water Wheel Works (United States), Camden, N. Y.
Chase Turbine Mfg. Co., Orange, Mass.
Christiana Machine Co., Christiana, Pa.
Davis Foundry & Machine Works, Rome, Ga.
Dayton Globe Iron Works Co. ("New American" Vertical & Horizontal), Dayton, O.
Eyster, Weiser & Co. (Ltd.), York, Pa.
Fitz Water Wheel Co., Hanover, Pa.
Genesee Valley Mfg. Co., Mount Morris, N. Y.
Hendy, Joshua Mach. W'ks, San Francisco, Cal.
Holyoke Machine Co. ("Hercules"), Holyoke, Mass.
Humphrey Machine Co. ("I. X. L." & X-L-C-R"), Keene, N. H.
Hunt, Rodney Machine Co. ("Hunt-McCormick"), Orange, Mass.
Jolly, J. & W., Holyoke, Mass.
Kingsford Fdry. & Mach. W'ks, Oswego, N. Y.
Lane Mfg. Co. ("Monitor"), Montpelior, Vt.
Leffel, Jas. & Co. ("Samson"), Springfield, O.
Mine & Smelter Supply Co. ("De Remer"), 42 B'way, New York, & Denver, Colo.
Morris, I. P. Co. ("Francis" & "Girard" Type), Beach & Ball, Phila., Pa.
Munson Bros. Co. ("Little Giant"), Utica, N. Y.
Norrish, Burnham & Co., Glen Rock, Pa.
Pelton Water Wheel Co., San Francisco, Cal.
Platt Iron Works Co. ("Victor," "Frances"), Dayton, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Risdon-Alcott Turbine Co. ("Risdon," 'Alcott" High Duty & "Taylor" Sleeve Gate), Mount Holly, N. J.
Robinson, A. J., Brentwood, N. H.
Sergeant Mfg. Co., Greensboro, N. C.
Smith, S. Morgan Co. ("McCormack" & "Smith"), York, Pa.
Trump Mfg. Co. ("Trump"), Springfield, Ohio
United Iron Works ("Tutthell"), San Francisco, Cal.
Valley Iron Works Co., Appleton, Wis.
Wellman-Seaver-Morgan Co., Cleveland, O.
Wolf Co., Chambersburg, Pa.
Wood, R. D. & Co. ("Geylein-Jonval"), 400 Chestnut, Phila.

## 12554— Turbines (Air)

Aurora Automatic Mach'y Co. ("Thor"), Aurora, Ill.

## 12555—Turbines (Hydraulic)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Morris, I. P. Co., Beach & Ball, Phila., Pa.

## 12556— Turbines (Oil)

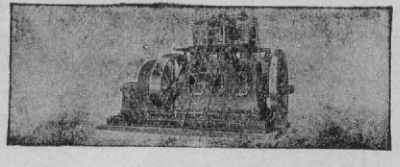
Elliott Co. ("Elliott"), Pittsburg, Pa.

## 12557—Turbines (Steam)

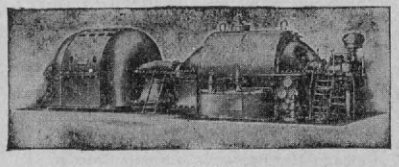
Alberger Pump Co., 95 Liberty, New York
**ALLIS-CHALMERS CO. ("Escher-Wyss"),** Milwaukee, Wis. (See adv. index & branch offices, end of book)
American & British Mfg. Co. ("Wilkinson"), Providence, R. I.
Bryant-Bery Co., Detroit, Mich.
Dake Engine Co., Grand Haven, Mich.
De Laval Steam Turbine Co., Trenton, N. J.
**GENERAL ELECTRIC CO. ("Curtis"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Kerr Turbine Co. (Non Condensing), Wellsville, N. Y.
Lathbury-D'Olier Co., Morris bldg, Phila., Pa.
Morris, I. P. Co., Beach & Ball, Phila., Pa.
Parsons' Marine Steam Turbine Co. (Ltd.), 97 Cedar, New York
Providence Engineering Works, Providence, R. I.
Southwark Foundry & Machine Co. ("Rateau"), Phila., Pa.
**STURTEVANT, B. F. CO., Hyde** Park, Mass. (See adv. index & branch offices, end of book)
Terry Steam Turbine Co. (Direct Connected to Dynamos, Pump, Blowers, etc.), Hartford, Conn.
**WESTINGHOUSE MACHINE CO., THE** ("Westinghouse" Type), Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)
Wilkinson Turbine Co., Birmingham, Ala.


# WESTINGHOUSE

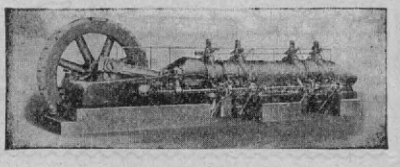
## Prime Movers and Auxiliary Apparatus



Vertical Gas Engines



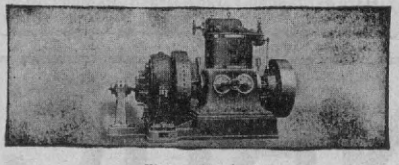
Steam Turbines



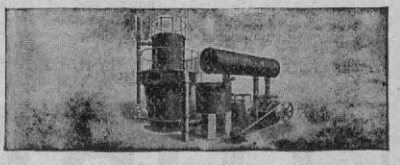
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Steam Engines



Gas Producers

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Chicago, 171 LaSalle Street
Cincinnati, 1103 Traction Bldg.

Philadelphia, North American Building
Denver, 512 McPhee Bldg.
San Francisco, Hunt, Mirk & Co.

Mexico: Compania Ingeniera, Importadora y Contratista, S. A. (Successors to G. & O. Braniff & Company), City of Mexico.


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## 12558– Tureens (Soup)

International Silver Co., Meriden, Conn.
Lalance & Grosjean Mfg. Co., 299 B'way, New York
Manning, Bowman & Co., Meriden, Conn.
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.

## 12559–Turnbuckles (Blind)

Reading Hdw. Co. (Also Rim), Reading, Pa

## 12560–Turnbuckles (Brass)

Wilcox, Crittenden & Co., Middletown, Conn.

## 12561–Turnbuckles (Insulated)

Monroe Electrical Mfg. Co., Monroe, Mich.

## 12562–Turnbuckles (Pipe)

Wilcox, Crittenden & Co., Middletown, Conn.

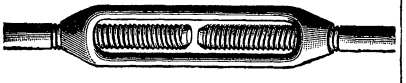
## 12563–Turnbuckles (Screen Door)

National Mfg. Co., Sterling, Ill.

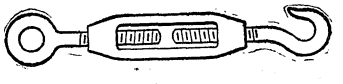
## 12564–Turnbuckles (Wrought Iron)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
American Iron & Steel Mfg. Co., Lebanon, Pa.


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**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hubbard & Co. (With Welded Eye Bolts), Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
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**MERRILL BROS. (Drop Forged),** 5 William, Maspeth (Borough of Queens), New York. (See adv. index, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.
**NEWHALL CHAIN, FORGE & IRON Co., 90 West, New York**
O'Leary, Arthur J. & Son Co., 652 W Lake, Chicago, Ill.
Republic Iron & Steel Co. ("Brazil" Hexagonal), Pittsburg, Pa.
Rhode Island Tool Co. (Drop Forged Plain & Eye & Hook & Eye), Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y., & Rock Falls, Ill.
**UNION ELEVATOR & MACHINE CO.,** 215 W Ontario, Chicago, Ill. (See adv. index, end of book)
Wilcox, Crittenden & Co. (Light), Middletown, Conn.

## 12564a–Turnbuckles (Wrought Iron Truss)

**MERRILL BROS. (Drop Forged),** 5 William, Maspeth (Borough of Queens), New York. (See adv. index, end of book)

## 12565– Turners (Cake)

**ARCADE MFG. CO. (Steel Blade,** Wood Handle), Freeport, Ill. (See adv. index, end of book)
Bridgeport Hardware Mfg. Corp., Bridgeport, Conn.
Browne & Dowd Mfg. Co., Meriden, Conn.
**BUFFUM TOOL CO. (For Griddle** Cakes), Louisiana, Mo. (See adv. index & branch offices, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Kilbourn Mfg. Co., Troy, N. Y.
Knickerbocker Mfg. Co., Belleville, N. J.
Lalanche & Grosjean Mfg. Co., 299 Broadway, New York
Landers, Frary & Clark, New Britain, Conn.
Lasher Mfg. Co., Davenport, Ia.
National Enameling & Stamping Co., 374 Broadway, New York
Parks & Parks, Troy, N. Y.
Potter Mfg. Co. ("Potter"), Geneva, O.
Republic Metalware Co., Buffalo, N. Y.
Richards, T. C. Hardware Co., Winsted, Conn.

## 12566–Turns (Cupboard)

Barrows Lock Co., Lockport, Ill.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Chicago Hardware Co., North Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Edwards, O. M. Co., Syracuse, N. Y.
Hardware Supply Co., Grand Rapids, Mich.
Lawrence Bros. (All Steel), Sterling, Ill.
National Mfg. Co. (Pressed Steel or Brass), Sterling, Ill.
Peck, Stow & Wilcox, Southampton, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.
Shelby Spring Hinge Co., Shelby, O.
Taylor & Boggis Foundry Co., Clevelaad, O.

## 12567– Turnstiles

American Passimeter Co., 290 B'way, New York
**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end of book)
Bright, H. V. (Registering), Cleveland, O.
Fiske, J. W., 39 Park pl, New York
Gray's Ferry Machine Co., 3105 Gray's Ferry rd, Phila., Pa.
Moore, Edgar M. & Co. (Exit), Farmers' Bank bldg, Pittsburg, Pa.
**SMITH, F. P. WIRE & IRON WKS.,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)

## 12568–Turntable Equipments

Nichols, Geo. P. & Bro. (Electric, Gasoline & Air), Old Colony bldg, Chicago, Ill.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 12569–Turntable Tractors (Electric & Air)

**DETROIT HOIST & MACHINE CO.,** Detroit, Mich. (See adv. index, end of book)


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Weir & Craig Mfg. Co. ("J. L. Pilling" Patents), Chicago, Ill.
**WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill.** (See adv. index & branch offices, end of book)

## 12570–Turntables (Automobile)

Bicycle Step Ladder Co., 65 Randolph, Chicago, Ill.
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Pitless Turntable Co., Kansas City, Mo.
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Smith, H. Lund Co., Paterson, N. J.
Thomas Mfg. Co., Franklin, Pa.
Weber Cycle & Supply Co. ("Weber"), Colorado Springs, Col.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 12570a—Turntables (Automobile Washstand)

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## 12571—Turntables (Industrial Railway)

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**CARLIN'S, THOMAS SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
Chambers Bros. Co. (For Brick Yards, etc.), 52d bel Lancaster av, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Eagle Foundry & Machine Co., Fort Scott, Kans.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Gregg Company (Ltd.), Lodi, N. J.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**LINK BELT COMPANY (Ball Bearing),** Hunting Park av & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Lobdell Car Wheel Co., Wilmington, Del.
McMyler-Interstate Co. (Hand & Electric), 1709 Columbus rd, Cleveland, O.
Magor Car Co., 50 Church, New York
**MINNEAPOLIS STEEL & MACHINE** ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**NORTHERN ENGINEERING WORKS,** 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Peteler Car Co., Minneapolis, Minn.
Power & Mining Machinery Co. (For Mines, etc.), Cudahy, Wis.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Stuebner, G. L. Iron Works, Long Island City, N. Y.
Turl's, John Sons (Inc.) (Ball Bearing), 26 Cortlandt, N. Y.; Works: Newburgh, N. Y.
Virginia Bridge & Iron Co., Roanoke, Va.
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12572—Turntables (Locomotive, Air, Electric & Hand Power)

**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)

## 12573—Turntables (Overhead)

Atlas Bolt & Screw Co., Cleveland, O.
**FREVERT MACHINERY CO., 18 Dey,** New York. (See adv. index, end of book)
Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.
**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)
**RICHARDS-WILCOX MFG. CO., 3rd** & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
**WHITING FOUNDRY EQUIPMENT** Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

## 12574—Turntables (Pressed Steel)

Steacey-Schmidt Mfg. Co., York, Pa.

## 12575—Turntables (Show Case)

Pearce, Fred'k Co., 20 Rose, New York

## 12576—Turntables (Standard Gauge)

(See also Turntables, Industrial Railway; also Tables, Transfer; also Tables, Transfer, Electric)
American Bridge Co., 30 Church, New York, & Pittsburg, Pa.
Boston Bridge Works (Railroad Turntables, etc.), 47 Winter, Boston, Mass.
Buda Co., Railway Exch bldg, Chicago, Ill.
Chicago Bridge & Iron Works, 105 & Throop, Chicago, Ill.
Clinton Bridge Co., Clinton, Iowa
Columbia Bridge Co., Pittsburg, Pa.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fulton Foundry Co. (Turn Tables Only), Cleveland, O.
King Bridge Co., Cleveland, O.
McClintic-Marshall Construction Co., Pittsburg, Pa.
Mount Vernon Bridge Co., Mount Vernon, O.
Missouri Valley Bridge & Iron Works (A. J. Thullock, Prop.), Leavenworth, Kan.
N. Y. Switch & Crossing Co., Hoboken, N. J.
Nichols, Geo. P. & Bro. (Electric, etc.), Old Colony bldg, Chicago, Ill.
Penna. Bridge Co., Beaver Falls, Pa.
Pennsylvania Steel Co., 1421 Chestnut, Phila., Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Sellers, Wm. & Co. (Inc.) (Locomotive), 1600 Hamilton, Phila., Pa.
**STROBEL STEEL CONSTRUCTION** Co., Monadnock blk, Chicago, Ill.
Toledo Bridge & Crane Co., Toledo, O.
Virginia Bridge & Iron Co., Roanoke, Va.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
(Transfer, etc.), 475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12577— Turpentine

### ALABAMA.

ANDALUSIA—Ashe-Carson Co.
Morrison & Carlton
COFFEE SPRINGS—Brigman, Sellers & Co.
DOTHAM—Carmichael, D. C.
FLOMATON—Pace & Morgan
FLORALA—Elliott, Henry

### CALIFORNIA.

SAN FRANCISCO—Noble Electric Steel Co., San Francisco, Cal.

### FLORIDA.

ABBOTT—Greer, J. L.
BELLEVIEW—McGehee & Mayo
CARTERS—Carter Mfg. Co.
CENTER PARK—Moore, R. O. & Co.
DUVAL—Duval Turpentine Co.
JACKSONVILLE—Hillman, W. J.
Peninsular Naval Stores Co.
MONTICELLO—Bryant, N. C.
McClellan, James A.
Malloy, Cannon & Co.
PERRY—Blair & Hinely
Holmes, Jas. & Son
RAIFORD—Padgett, P. M. & Co.
ROCKBLUFF—Rockbluff Co.
STARKE—Powell-Smith Co.
TAMPA—Peninsular Naval Stores Co.
WEBSTER—Getzen, J. C.
WOODVILLE—Williamson & Co.
YORK—Horne, Louis L.

### GEORGIA.

AILEY—Riddle, J. A.
ALBANY—Cook, I.
ALTAMAHA—Tippins, John U.
Widincamp, E.
ARLINGTON—Isaac, Newberry
AUTRYVILLE—Autry, D. A.
BAINBRIDGE—Autrey & Son
BLADEN—Ward, J. A.
CUTTING—Georgia Lumber & Turpentine Co. (Wood Spirits of Turpentine)
EDEN—Fetzer, G. W.
FALES—Tanner, B. H.
HAGAN—Smith, S. A. & Co.
HARTSFIELD—Spivey & Mathews
HOMERVILLE—Peagler, H. M. & Co.
IRWINVILLE—Barber, A. T. & Co.
LEARY—Williams, B. B.
LEXSY—Youmans Bros.
LONG POND—McArthur, J. H.
McDONALD—Benett, D. H.
MEIGS—Carter, J. N.
MOULTRIE—Holmes-Harsfield Co.
Spivey, J. F.
NASHVILLE—Brown, W. P.
NIELLY—Smith, T. J.
OLYMPIA—West Yellow Pine Co.
PFEIFFER—Pfeiffer, C. B. (Est. of)
ROCKY FORD—Finch, D. C. & Bro. (Saw Mill)
SAVANNAH—American Naval Stores Co.
Atlantic Turpentine Co. (Prime Steam Refined)
SHEPHERD—Smith, J. D.
STATESBORO—McDongald Bros. & Co.
Williams, Outland & Co.
THOMASVILLE—Floyd, Howell & Co.
VALDOSTA—Rose, E. P.
VIENNA—Kelly, R. E.
WHITE OAK—McKinnon, L. T.

### ILLINOIS.

CHICAGO—Adams, Fred. C. (Mfrs' Agt.), 702 W Division

### LOUISIANA.

COVINGTON—Jones & Pickett

### MICHIGAN.

CADILLAC—Cadillac Turpentine Co.

### NEW YORK.

NEW YORK—Baxter, Geo. S. & Co., 15 William
Georgia Pine Turpentine Co. (of New York)
Sholes, Chas. E. Co., 164 Front
158 Perry
Standard Turpentine Co., 100 William

### NORTH CAROLINA.

ANGIER—Williams, J. C. & B. F.
CLINTON—McPhail, J. R.
MANLEY—Buchan, P. F.
NEWBERN—Ellis, Mrs. E. B.

### PENNSYLVANIA.

GLENSHAW—Brazilian Turpentine Co.
PITTSBURG—Ball Chemical Co. (Norway)

### SOUTH CAROLINA.

GEORGETOWN—Georgetown Chemical Works

### TEXAS.

BEAUMONT—Producers Turpentine Co.

## 12578—Turpentine (Mineral)

Waverly Oil Works Co. ("Tur-Min-Tine"), Pittsburg, Pa.

## 12579—Turpentine Substitute

Canfield Oil Co., Cleveland, O.
Cromwell-Walker Co., Harrison, N. J.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)

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Patton Paint Co. ("Leptyne"), Milwaukee, Wis.
Terabentine Co. (Inc.), ("Diamond T. Turpalin"), Phila., Pa.
Turpsene Mfg. Co. ("Turpsene"), 1901 Callowhill, Phila., Pa.
United States Compound Co., Flint, Mich.

## 12580—Turret Attachments

Bradford Machine Tool Co., Cincinnati, O.

## 12581—Tuyeres & Coolers

Ajax Metal Co., 46 Richmond, Phila., Pa.
Best Mfg. Co. (Bronze), Pittsburg, Pa.
Brighton Brass & Bronze Co., Pittsburg, Pa.
Connersville Blower Co., Connersville, Ind.
Eastwood Wire Mfg. Co., Belleville, N. J.
Falcon Bronze Co., Youngstown, O.
Gilb, V. & Son (Copper), Birmingham, Ala.
Hartman Co., 1231 N. Front, Phila., Pa.
Keystone Bronze Co., Pittsburg, Pa.
LAWRENCEVILLE BRONZE CO. (Also Notches), 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)
MacKenzie's, Duncan & Son, Trenton, N. J.
More-Jones Brass & Metal Co. (Copper), St. Louis, Mo.
Roots, P. H. & F. M. (Tuyeres Only), Connersville, Ind.
Smeeth-Harwood Co., 2201 W 22nd, Chicago, Ill.

## 12582—Tweezers (Piano Makers')

Kraeuter & Co., Newark, N. J.

## 12583— Twine (Binder)

American Grass Twine Co., St. Paul, Minn.
American Mfg. Co. (Sisal & Manila & Jute), 63 Wall, New York
Fitler, Edwin H. Co., 23 N Delaware av, Phila. Pa.
Groendyke, J. C. Co., 140 Dearborn, Chicago, Ill.
Hooven & Allison Co. ("Star-A. H."), Xenia, Ohio
International Flax Twine Co. (Flax, Sisal & Manilla), 234 Michigan, Chicago, Ill.
INTERNATIONAL HARVESTER CO. of America ("Champion," "Deering," "Milwaukee," "McCormick," "Osborne," "Plano" & "International"), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Jackson, Thos. & Son (Manila & Sisal), Reading, Pa.
Kelly, R. A. Co., Xenia, O.
Kentucky River Mills (Hemp & Flax), Frankfort, Ky.
Ludlow Mfg. Associates (Manila & Sisal), Boston, Mass.
New Bedford Cordage Co. (Jute), New Bedford, Mass.
Peoria Cordage Co. (Sisal & Manila), Peoria, Ill.
Plymouth Cordage Co., Plymouth, Mass.
Portland Cordage Co. (Flat), Portland, Ore.
Rivek Cordage Co., Easton, Pa.
Standard Cordage Co. ("Crown" & "Sewell & Day" Brands), 45 South, New York
State Penitentiary, Bismarck, N. Dak.
Tubbs Cordage Co., San Francisco, Cal.
Tucker & Carter Rope Co., 76 South, New York
Waterbury Co. (Inc.) (Sisal & Manila), 69 South, New York
Whitlock Cordage Co., 46 South, New York
Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

## 12584—Twine (Box & Shook)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord" Sisal & Jute), 85 Wall, New York. (See adv. index, end of book)

## 12585— Twine (Broom)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

## Twine (Cotton)

(See Cordage & Twine Manufacturers)

## 12586— Twine (Flax)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
INTERNATIONAL HARVESTER CO. of America ("International" Binder), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Linen Thread Co., 96 Franklin, New York
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12586a— Twine (Ham)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12587— Twine (Hemp)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
Linen Thread Co., 96 Franklin, New York
Ludlow Mfg. Associates, Boston, Mass.
Malden Mills, Inc., Malden, Mass.
NEW YORK CORDAGE CO. ("Nycord" Russia, Tarred or Untarred), 85 Wall, New York. (See adv. index, end of book)
Tucker & Carter Rope Co., 76 South, New York

## 12588— Twine (Jute)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
Linen Thread Co., 96 Franklin, New York
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12588a— Twine (Papermakers')

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12589— Twine (Sail)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12590— Twine (Seine)

American Net & Twine Co., Boston, Mass.
Bibb Mfg. Co., Macon, Ga.
Brownell & Co., Moodus, Conn.
Fowler Net & Twine Co., 107 S 2nd, Phila., Pa.
Gloucester Net & Twine Co., Gloucester, Mass.
Greene & Daniels Mfg. Co., Pawtucket, R. I.
Lees Mfg. Co., Westport, Conn.
Manchester Mfg. Co., Macon, Ga.
Neptune Twine & Cord Mills, Moodus, Conn.
New York Net & Twine Co., Moodus, Conn.
Purple, A. E., Moodus, Conn.
Tucker & Carter Rope Co., 76 South, New York

## 12591—Twine (Tarred Hoop)

American Mfg. Co., 63 Wall, New York
Bibb Mfg. Co., Macon, Ga.
COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12592— Twine (Wool)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12592a—Twine (Wrapping)

COLUMBIAN ROPE CO., Auburn, N. Y., & 62 South, New York. (See adv. index, end of book)
NEW YORK CORDAGE CO. ("Nycord"), 85 Wall, New York. (See adv. index, end of book)

## 12593— Type (Rubber)

Consolidated Stamp Mfg. Co. (Solid), 87 Maiden la, New York
Fulton Rubber Type Co., Elizabeth, N. J.
Gibson, A. C. Co., Buffalo, N. Y.
Matthews, Jas. H. & Co. (Solid), 306 Wood, Pittsburg, Pa.
Smith, R. H. Mfg. Co. (Metal Body), Springfield, Mass.
Superior Rubber Type Co., 260 5th av, Chicago, Ill.
Swisher, R. D. Mfg. Co. (Solid, etc., also Type for All Can Stamping Machines), 411 S Clinton, Chicago, Ill.

## 12594— Type (Wood)

Empire Wood Type Co., 31 Ferry, New York
Hamilton Mfg. Co., Two Rivers, Wis.
Tubbs Mfg. Co. ("Tubbs" Point Line & Printers' Wood Furniture), Ludington, Mich.

## Typewriter Carbon Papers

(See Paper, Carbon)

## 12595—Typewriter Parts

Waltham Screw Co., Waltham, Mass.

## 12595a—Typewriter Ribbon Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

## 12596—Typewriter Ribbons

Allen, John & Co., 480 Pearl, New York
American Multigraph Sales Co., Cleveland, O.
American Ribbon & Carbon Co. ("Eagle"), Rochester, N. Y.
Ault & Wiborg Co., Cincinnati, O.
Bayer, Frank Co. ("Markwell"), 88 Center, New York
Black Diamond Ribbon & Carbon Co. ("Black Diamond"), Rochester, N. Y.
Brecher, E. A. & Co. ("Unxled," "Sterling"), 88 Centre, New York
Buckeye Ribbon & Carbon Co., Cleveland, O.
Carter's Ink Co. ("Ideal"), Cambridge, Mass.
Columbia Ribbon & Carbon Mfg. Co. ("Columbia"), 111 W B'way, New York
Corona Supply Co. ("Corona"), Rochester, N. Y.
Crown Ribbon & Carbon Mfg. Co. ("Crown," "Globe"), Rochester, N. Y.
De-Fi Mfg. Co. ("De-Fi Polychrome"), 150 Nassau, New York
Dodge Co. ("Du-Ra-Bul"), Syracuse, N. Y.
Downes & Co. ("So Klean"), 102 Fulton, New York
Foyer, Chas. A. & Co. ("Foyer"), 1120 Prospect av, Cleveland, O.
Heale, J. A. & Co. ("H.-B."), 96 John, New York
Indeliba Mfg. Co. (Inc.), Rochester, N. Y.
International Carbon Paper Co. ("I. C. P. Co."), 241 Centre, New York
Kee Lox Mfg. Co. ("Kee Lox"), Rochester, N. Y.
Keystone Carbon Paper Co. ("Keystone"), Franklin, Pa.
Kruse Printing Ink Co., 437 Pearl, New York
Little, A. P., Rochester, N. Y.
Manifold Supplies Co., 188 3rd av, Brooklyn, N. Y.
Miller-Bryant-Pierce Co. ("Carnation"), Aurora, Ill.
Mittag & Volger (Inc.), ("Eureka"), Park Ridge, N. J.
Neidick Process Co. ("Neidick"), Burlington, N. J.
Newark Ribbon & Carbon Mfg. Co., Newark, N. J.
Pen-Carbon Manifold Co. ("Cotton King," Mercerized Silk), New Brunswick, N. J.
Republic Carbon & Ribbon Mfg. Co. ("Republic"), 46 W B'way, New York
Republic-Dodge Mfg. Co. ("Du-Ra-Bul"), Pearl & Prospect, Brooklyn, N. Y.
Rothschild, M. M., 417 Dearborn, Chicago, Ill.
Snelling & Son, 225 34th, Brooklyn, N. Y.
Stambaugh, Wm. B., Metropoltan Life Bldg., New York
Storms, H. M. Co. ("American," "Cameo"), 11 Vandewater, New York
Three B-B-B-Co., Detroit, Mich.

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# It's Printype!

**"What a beautiful typewritten letter--as plain as print--as easy to read as a primer! It must be the new Oliver PRINTYPE! I wish all our correspondents used The Printype Oliver Typewriter!"**
***--A composite quotation from ten thousand business and professional men on being introduced to Printype.***

ALL eyes are watching Printype. Its attraction is irresistible. Its beauty and grace, in a typewritten letter, are alluring, attention-compelling. Although absolutely new to **typewriting,** its counterpart—Book Type—has been used on all the world's presses since the printing art had its inception. It is the Oliver ideal of perfect typography applied to typewriter uses.

We had brought the machine to its maximum of efficiency. We had added, one by one, a score of great innovations. There remained but one point—that was **the type itself.**

Then came the inspiration which meant **a revolution in typewriter type.** We would design and produce a new typewriter type face, conforming to the type used in newspapers, magazines and books.

We did! It's here! It's PRINTYPE!

Printype is not an experiment. It is, in all essentials, the type that meets your eye when you read your morning paper, your magazine or your favorite novel. Now that Printype is an accomplished fact, the thought occurs to thousands, why didn't typewriter manufacturers think of it years ago? The same question was asked when, over ten years ago, we introduced **visible writing.**

## A Long Step in Advance

The change from the old-style thin outline letters known as Pica Type, universally used up to now on all standard typewriters, to the new, beautiful, readable Printype, is one of vast significance. It means relief from the harmful effect on eyesight of the "outline" typewriter type. For Printype is as easy to read as a child's primer.

The OLIVER Typewriter
*The Standard Visible Writer*

It means less liability of mis-reading, due to blurring of outline letters, whose sameness frequently makes the words run together. Printype letters are **shaded,** just as Book Type is shaded.

It means less danger of costly errors, due to confusing the numerals. No possible chance of mistaking 3 for 8 or 5 for 3—each figure is distinct. It means a degree of typographic beauty never before known in typewriting.

And now, because of its **newness,** it has the enhanced charm of **novelty.**

## Printype Now Famous

The reception of **Printype** by the business public has been most enthusiastic. We withheld any formal announcement until the machine had been on the market for one year. Personal demonstrations were its only advertising. The resulting sales were stupendous. Printype letters soon began to appear among commonplace old-style correspondence. Wherever received, these mysterious, distinctive, beautiful letters awakened immediate interest. Business men began asking each other, **"What's that new kind of typewriter that writes like real print?"** Thus the fame of Printype grows as its beauty and utility dawn on the business world.

## Printype Aids Eyes

The manifold merits of Printype are a constant source of surprise. Printype is restful to eyesight. It delivers its message in the most easily readable form.

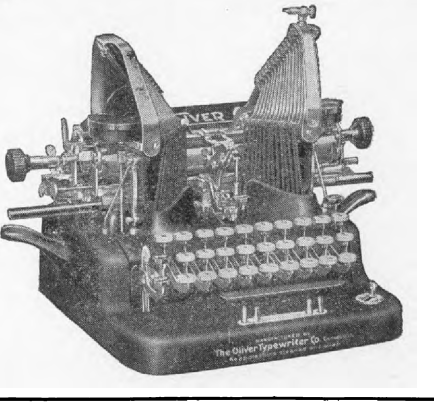
The constant reading of thin outline letter typewriting plays havoc with the eyes. It sends thousands to oculists and opticians.

A comparative test of Printype and ordinary typewriting will win you to **the type that reads like print.**

## We Have Not Raised Our Price

We do not ask a premium for The Printype Oliver Typewriter. We have declared a big dividend in favor of typewriter users by supplying this wonderful type, when desired, on the new model Oliver Typewriter.

Our price is $100, the same as our regular model with Pica Typewriter Type.



## Ask for Book, Specimen Letter and Demonstration

We will gladly send you a Printype Book, together with **a letter written** on The Printype Oliver Typewriter. This letter will be a revelation.

Our great sales organization enables us to make an improvement of this character **immediately and simultaneously available to the public.** Press the button and see how quickly an Oliver Agent will appear with a "Printyper," ready to tell you all about it and write several Printype letters for you. Address Sales Department

**The Oliver Typewriter Company**
**310 Broadway, New York, N. Y.**

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# DO YOU KNOW

that we are consulted by thousands of Buyers annually, who request us to *"put them in touch"* with the manufacturers of the best products in all lines of trade and that we are frequently asked to recommend the ONE which we consider to be *the best* in a particular line ... ...

?

## Hendricks' Commercial Register


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Union Ribbon & Carbon Co. ("Apex," "Summit," "Cyclo"), 9th & Thompson, Phila., Pa.
United States Typewriter Ribbon Mfg. Co. ("U. S."), 8th & Sansom, Phila., Pa.
Vacuo-Static Carbon Co. ("Wearebest"), Rochester, N. Y.
Webster, F. S. & Co. ("Star"), Boston, Mass.

## 12597—Typewriter Stands

Broome Mfg. Co. (Swinging), Peru, Ind.
Tatum, Samuel C. Co., Cincinnati, O.
Welty, Wm. A. Co. (Revolving), Waterloo, Ia.

## 12598— Typewriters

American Typewriter Co., 265 B'way, New York
American Writing Machine Co., 343 B'way, New York
Bennett, C. N. B. Typewriter Co. ("Bennett," Small Portable), 366 B'way, New York
Blickensderfer Mfg. Co., Stamford, Conn.
Chicago Writing Machiie Co. ("Chicago"), Galesburg, Ill.
Columbia Typewriter Mfg. Co., 62 Reade, New York
Elliott-Fisher Co., 366 B'way, New York
Emerson Typewriter Co. ("Emerson"), McCormick bldg, Chicago, Ill.
Fay-Scholes Co., Chicago, Ill.
Felt & Tarrant Mfg. Co. (Adding & Billing Comptometer), 1735 N Paulina, Chicago, Ill.
Fox Machine Co., Grand Rapids, Mich.
Hammond Typewriter Co. ("Hammond" Visible), 69th & East River, New York
Ithaca Gun Co., Ithaca, N. Y.
Junior Typewriter Co. ("Junior"), 366 B'way, New York
Monarch Typewriter Co. ("Monarch" Visible), Syracuse, N. Y
Noiseless Typewriter Co., Middletown, Conn.
**OLIVER TYPEWRITER CO., 47-55** Dearborn, Chicago, Ill. (See adv. index & branch offices, end of book)
R. & G. Typewriter Co., 229 B'way, New York
Remington Typewriter Co., 327 B'way, New York
Royal Typewriter Co. ("Royal"), 364 B'way, New York
Secor Typewriter Co. ("Secor" Visible), Derby, Conn.
Simplex Typewriter Co., 644 1st av, New York
Smith, L. C. & Bros. Typewriter Co., Syracuse, N. Y.
Smith Premier Typewriter Co., Syracuse, N. Y.
Standard Folding Typewriter Sales Co. ("Folding"), 309 B'way, New York
Standard Typewriter Co., Groton, N. Y.
Stearns, E. C. & Co. (Folding, "Stearns," Visible), Syracuse, N. Y.
Sun Typewriter Co., 317 B'way, New York
Triumph Visible Typewriter Co., 13 Park row, New York
Underwood Typewriter Co., 241 B'way, New York
Union Typewriter Co., Bridgeport, Conn.
Victor Typewriter Co. ("Victor," Writes Two Colors, one at a time), 812 Greenwich, New York
Williams Mfg. Co., Plattsburg, Pa.
Yost Writing Machine Co., 343 B'way, New York

## 12599—Typewriters (Adding & Billing)

Elliott-Fisher Typewriter Co., Harrisburg, Pa.
Felt & Tarrant Mfg. Co. (Comptometer), 856 N Paulina, Chicago, Ill.
Moon-Hopkins Billing Machine Co., 19th & Pine, St. Louis, Mo.

## 12600—Typewriters (Multiple)

American Multigraph Sales Co. ("Grammeter Multigraph" for Printing Office Forms, Fac-Simile Letters, etc.), Case av & Kelly, Cleveland, O.

When writing to firms whose names appear in this book please mention
HENDRICKS' COMMERCIAL REGISTER.

## 12601—Typewriting Specifications Reproduced in Inkograf Fac-Similes

**SOLTMANN, E. C.** (Also Everything for the Architect, Engineer & Draughting Room), 134 W 29th, New York. (See adv. index, end of book)

## 12602— Umbrella Mfrs.

Ades Bros., Baltimore, Md.
Altshuler Bros., 42 White, New York
Arnold, Schiff & Co. (Cotton, Silk & Parasols), 111 Franklin, New York
Atlantic Umbrella Co., Atlantic, Ia.
Ballin Bros., 455 B'way, New York
Bamberger, Herman, 20 White, New York
Bauer Bros. Mfg. Co. (Wagon Sunshades), Cincinnati, O.
Becker & Thomas Co., Cleveland, O.
Burgin Bros. (Wagon), Springfield, Mass.
Cappel, A., Dayton, O.
Connor, Wallace & Co., 42 Lispenard, New York
Dougherty Bros. Tent & Awning Co. (Wagon), St. Louis, Mo.
Elkus Co., 861 Folsom, San Francisco, Cal.
Excelsior Umbrella Mfg. Co., 73 Summer, Boston, Mass.
Follmer, Clogg & Co., 395 B'way, New York, & Lancaster, Pa.
Fretz, Gross & Co., Phila., Pa.
Gans Bros., 467 B'way, New York, & Baltimore, Md.
Guerney Ball Joint Umbrella Co., Portsmouth, N. H.
Harding, Jno. W. R., 1528 Gillingham, Phila., Pa.
Hettrick Bros. Co. (Wagon), Toledo, O.
Henryson, L. P. & Co., 82 Franklin, New York
Hull Bros. Umbrella Co., Toledo, O.
Hulse Bros. & Daniel Co., 253 Church, New York
Kiel & Arthe Co., 309 Canal, New York
Kraut & Finver Bros., 40 White, New York
Kreis & Hubbard, 253 Franklin, Chicago, Ill.
Kromiller, Geo. & Son, Baltimore, Md.
Kuhn, E. C. W. & R., Cincinnati, O.
Lazarus, J. & Co., 74 Franklin, New York
Lemmers Umbrella Mfg. Co., Cleveland, O.
Lycoming Wireless Umbrella Co., Williamsport, Pa.
Miller Bros. & Co., 362 B'way, New York
Moulton Wireless Umbrella Co., Plain City, O.
Moxey( Howlett Co., Boston, Mass., & Phila., Pa.
National Umbrella Co., Cleveland, O.
Newland Hat Co., Detroit, Mich.
Patton, R. J. Co. (Wagon), Cincinnati, O.
Polan, Katz & Co., Baltimore, Md.
Quier, C. D. Top Co. (Wagon Sunshades), Kansas City, Mo.
Rainshine Umbrella Co., Kansas City, Mo.
Rich, Wm. H. & Son, 416 B'way, New York
Rose Bros. & Co., Lancaster, Pa.
Siegel, Rothschild & Co., Baltimore, Md.
Simons & McGill, 58 White, New York
Sprague Umbrella Co. (Advertising, Campaign, Society, Carriage, Wagon), Norwalk, O.
Stokley, Jas. & Co., 728 Cherry, Phila., Pa.
Stoopack & Garbat, 60 Walker, New York
Storer, Chas. N., Rochester, N. Y.
Tim, Jno. W. & Son, Pittsburg, Pa.
Troy Carriage Sunshade Co. (Buggy, Plain & Advertising, Wagon), Troy, O.
Zittlosen Mfg. Co. (Wagon), St. Louis, Mo.

## 12603—Umbrella Parts (Steel)

Newark Rivet Works, Newark, N. J.

## 12604—Umbrellas (Wagon, Truck & Advertising)

Perfection Mfg. Co., St. Louis, Mo.
Zittlosen Mfg. Co., St. Louis, Mo.

## 12605—Underframes (Steel Car)

Bettendorf Axle Co. (For Freight Cars), Davenport, Iowa
Cambria Steel Co., Johnstown, Pa.
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Chicago Steel Car Co., 164 Dearborn, Chicago, Ill.
Commonwealth Steel Co., St. Louis, Mo.
Crawford Locomotive & Car Co., Streator, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Peteler Car Co., Minneapolis, Minn.
Pressed Steel Car Co., Pittsburg, Pa.
Ralston Steel Car Co. (For All Kinds of Freight & Passenger Cars), Columbus, O.
Standard Steel Car Co., Pittsburg, Pa.
Virginia Bridge & Iron Co., Roanoke, Va.
Western Steel Car & Foundry Co., Old Colony bldg, Chicago, Ill.

## 12606—Uniforms (Employees')

Lilley, M. C. & Co., Columbus, O.
Newcomb, F. H., 136 Flatbush av, Brooklyn, N. Y.
Olhm & Co., Baltimore, Md.
Orr, C. F. & Co., 164 Dearborn, Chicago, Ill.
Pettibone Bros. Mfg. Co., Cincinnati, O.
Royalton Woolen Co., 70 Worth, New York
Shapiro, Wm., 587 5th av, Brooklyn, N. Y.
Singer, A. L. & Co., 173 Adams, Chicago, Ill.
Wendell, Fay & Co., 82 Worth, New York

## 12607— Unions

American Brake Shoe & Foundry Co. (Drop Forged, Flanged), Mahwah, N. J.
Bard Union Co. (Inc.) ("Bard"), Norwich, Conn.
Belfield, H. & Co. (Flanger Malleable Iron), 453 N Broad, Phila, Pa.
Best Mfg. Co. ("Universal"), Pittsburg, Pa.
Bridgman Bros. Co. ("Bridgman" Brass & Brass Screwed), 1422 Washington av, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Clum & Atkinson (Brass, also Ground Joint Soldering), Rochester, N. Y.
Crane Valve Co. (Brass), Bridgeport, Conn.
Crawford & Tyler, North Dana, Mass.
Darling Pump & Mfg. Co., Williamsport, Pa.
Dart, E. M. Mfg. Co. ("Peerless"), Providence, R. I.
Devlin, Thos. & Co. ("National"), Phila., Pa.
Eastwood Wire Mfg. Co. (Bronze, End Flanged, etc.), Belleville, N. J.
Eureka Brass Works, Cincinnati, O.
Flagg, Stanley G. & Co. ("Keystone", Soft Metal Seat), Morris bldg, Phila., Pa.
General Fire Extinguisher Co. (Flanged Cast Iron, etc.), Providence, R. I.
Grabler Mfg. Co. (Malleable Iron), Cleveland, Ohio
Hamlin & Emery Brass Co. (Brass), 26 Island, Boston, Mass.
Hancock Mfg. Co., Charlotte, Mich.
Hays Mfg. Co. (Brass), Erie, Pa.
Illinois Malleable Iron Co. ("Nokoros"), 1801 Diversey boul, Chicago, Ill.
Jefferson Union Co. (For High & Low Pressure), Lexington, Mass.
Kelly & Jones Co. (Norustocta" & "Standard", Malleable, Brass & Cast Iron), Pittsburg, Pa.
**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices,** end of book)
Monash-Younker Co. ("Star"), 1407 W Jackson blvd, Chicago, Ill.
National Tube Co. ("Kewanee" Octagon, Hexagon, Round, "M. & F." Extra Heavy, Hydraulic, Air Pump, Air Drill, Hose, Eccentric & Flange, all Brass), Pittsburg, Pa.
Newbury Mfg. Co. (Grey Iron), Monroe, N. Y.
Nichol, Thos. J. & Co. (Brass), Cincinnati, O.
Nolte Brass Co. (Brass & Soldering), Springfield, O.
Pancoast, Henry B. & Co. ("American"), 243 S 3d, Philadelphia, Pa.
Pittsburg Brass Mfg. Co. (Brass, Extra Heavy), Penn av & 32d, Pittsburg, Pa.
Powell, Wm. Co. (Brass), Cincinnati, O.
Queen City Brass & Iron Works (Brass, Soldering, etc.), Cincinnati, O.
Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.
Richardson, Edro Brass Co. (Brass), Baltimore, Md.
**STEIN, HENRY (Brass), 48 Cliff,** New York. (See adv. index, end of book)
Tight Joint Co. ("Tight-Joint" Flanged, for High Pressure), 306 E 47th, New York
Williams, D. T. Valve Co., Cincinnati, O.
Williams, Franklin ("Tuxedo," Bronze for High Pressure), 39 Cortlandt, New York

## 12608—Unions (Brass, Brazing & Flange)

**LUNKENHEIMER CO., General Offices &** Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

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## 12609—Unions (Flanged)

Bard Union Co. ("Bard"), Norwich, Conn.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Dame & Townsend Co. ("Dame & Townsend Co.'s"), Cliff & Fulton, New York
Jefferson Union Co. (Malleable Iron Bronze or Brass Seat), Lexington, Mass.
Kelly & Jones Co. (Cast Iron), Pittsburg, Pa.
Kokomo Brass Works (Steam Metal), Kokomo, Ind.
National Tube Co. ("Kewanee," Cast & Malleable), Pittsburg, Pa.
Newbury, J. H., Goshen, N. Y.
Osborne High Pressure Joint & Valve Co. ("Osborne"), The Rookery, Chicago, Ill.

## 12610—Unions (Furnace)

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

## 12611—Unions (Universal)

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

## 12612—Unions & Nipples (Soldering)

Blatchford, E. W. Co., 230 N Clinton, Chicago, Ill.
Buckeye Iron & Brass Wks., Dayton, O.
Burlington Brass Works, Burlington, Wis.
Campbell, J. B. Brass Works, Erie, Pa.
Cleveland Bronze & Brass Works (Brass), Cleveland, O.
Clum & Atkinson, Rochester, N. Y.
Elkhart Brass Mfg. Co., Elkhart, Ind.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury, 1136 Ridge av, Phila, Pa.
Hays Mfg. Co., Erie, Pa.
Jefferson Union Co., Lexington. Mass.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
Kokomo Brass Works, Kokomo, Ind.
Mueller, H. Mfg. Co., Decatur, Ill.
National Tube Co., Pittsburg, Pa.
Nolte Brass Co., Springfield, O.
Queen City Brass & Iron Works, Cincinnati, O.
Sanitary Co., Cleveland, O.
Savill, Thos. &Sons, 11th & Wood, Phila, Pa.
Springfield Brass Co., Springfield, O.
**UNION WATER METER CO., (Combination Soldering Nipple), Worcester, Mass. (See adv. index, end of book)**
Williams, D. T. Valve Co., Cincinnati, O.
Wolverine Brass Works, Grand Rapids, Mich.

## 12613—Unit Group System of Multiple Control

**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## Unloaders (Ballast)

(See Ballast Loaders & Unloaders)

## 12614—Unloaders (Coal Car)

**LINK BELT CO., Hunting Park av** & Reading Ry, Phila., Pa. (See adv. index & branch offices, end of book)
Stephens-Adamson Mfg. Co. ("S-A"), Aurora, Ill.

## 12615—Unloaders (Sling)

**MYERS, F. E. & BRO. ("Myers Sure Grip" Triple Hoist, Right Angle Elevator & "Sure Grip" 2-Fork Unloader),** Ashland, O. (See adv. index & branch offices, end of book)

## 12616—Unloaders (Sugar Cane Car)

Gregg Company (Ltd.), Lodi, N. J.

## 12617— Upsetters (Tire)

(See also Upsetting & Forging Machines)

Brooks Tire Machine Co. (Hand Power for Upsetting Tires Cold while on Wheels), Wichita, Kans.
Buffalo Forge Co., Buffalo, N. Y.
Butts & Ordway ("B. & O." Sure Grip), Boston, Mass.
Comstock, Geo. S. ("Comstock" Fire & Axle Shrinker), Mechanicsburg, Pa.
Illinois Iren & Bolt Co., Carpentersville, Ill.
Luther Mfg. Co. (Upset Punch & Shear Combined), Olean, N. Y.
Wiley & Russel Mfg. Co. (Green River Stile), Greenfield, Mass.

## 12618— Urinal Stalls

Mott, J. L. Iron Works ("Imperial," Porcelain), 118 5th av, New York
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Walls, Owen & Stambach Co. (Soapstone), 11th & Ridge av, Phila., Pa.

## 12619— Urinometers

Tagliabue, Chas. J. Mfg. Co, 396 B'way, New York

## 12620—Urns (Tea & Coffee)

Aldrich Mfg. Co., Buffalo, N. Y.
American Electrical Heater Co., Detroit, Mich.
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index & branch offices, end of book)
Boesch Lamp Co., San Francisco, Cal.
Bramhall-Deane Co., 266 Water, New York
Buffalo Mfg. Co., Buffalo, N. Y.
Castle, Wilmot Co., Rochester, N. Y.
Clad, V. & Sons, Philadelphia, Pa.
**DUPARQUET, HUOT & MONEUSE CO.,** 43 Wooster, New York. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York.** (See adv. index & branch offices, end of book)
Globe Stove & Range Co., Kokomo, Ind.
International Silver Co., Meriden, Conn.
Kreamer, A., 307 Kent av, Brooklyn, N. Y.
Kronman, E., 40 Catherine, New York
Landers, Frary & Clark, New Britain, Conn.
Manning, Bowman & Co., Meriden, Conn.
Miller, A. G., 106 Centre, New York
Strater, Herman & Son, Boston, Mass.
Silver & Co. (Inc.), 304 Hewes, Brooklyn, N. Y.
Simplex Electric Heating Co. ("Simplex," Electric), Cambridge, Mass.
Williams & Poore, 29 Haverhill, Boston, Mass.

## 12621—Urns & Vases (Terra Cotta)

Carnegie Brick & Terra Cotta Co., San Francisco, Cal.
Clark, N. & Sons, 116 Natoma, San Francisco, Cal.
Steiger Terra Cotta & Pottery Works, San Francisco, Cal.

## 12622—Vacuum Cleaners (Hand & Power)

Atwood Vacuum Co. ("Atwood," Hand & Power Stationery & Portable), Rockford, Ill.
Automatic Vacuum Cleaner Co. (Portable), Bloomington, Ill.
Backus Co. (Power, Electric Gas & Water), Newark, N. J.
Banner Machine Co. ("Banner" Hand), Columbiana, O.
Blaisdell Machinery Co. (Power). Bradford. Pa.
Cyclone Vacuum Cleaner Co. ("Cyclone" Hand). Bradford, Pa.
Domestic Vacuum Cleaner Co. (Hand), Worcester, Mass.
Duntley Mfg. Co. ("Duntley" Electric Portable), 234 Michigan av, Chicago, Ill.
Electric Cleaner Co. (Electric Portable), 98 Jackson boul., Chicago, Ill.
Electric Renovator Mfg. Co. ("Invincible"), Pittsburg, Pa.
Empire Vacuum Co. ("Imperial" Portable), 112 W 30th, New York
Everson Mfg. Co. (Portable Electric). 34 Oliver, Boston, Mass.
Garden City Fan Co. (Portable & Stationary), Fisher bldg, Chicago, Ill.
General Compressed Air & Vacuum Machinery
Glidden, Wilmot & Son, Oak Park, Ill.
Mo. Co. ("Thurman"), 4469 Olive, St. Louis,
Gray Iron Foundry Co. ("Crown" Hand), Reading, Pa.
Hoover Suction Sweeper Co. (Electro-Pneumatic Portable), New Berlin, O.
Houston Mfg. Co. (Stationery Power), Rockford, Ill.
Hugro Mfg. Co. ("Victor," Hand House), 166 Adams, Chicago, Ill.
Hutchinson Mfg. Co. ("Success" Hand Power), Wilkinsburg, Pa.
Keller Mfg. Co. ("Santo"), 21st & Allegheny av, Phila., Pa.
Kendall, O. S. & Son ("Pneu-Simplex" Hand), Worcester, Mass.
Kotten, H. G. & Co. (Hand), 30 Church, New York
Leasure Vacuum Cleaner Co. (Hand), Bradford, Pa.
McCrum-Howell Co. ("Richmond" Stationary & Portable), 103 Park av, New York
National Vacuum Cleaning Co. ("Green"), Dayton, O.
Nohe Electric Renovator Co. ("Nohe" Electric), 723 Fulton, Chicago, Ill.
P. & W. Vacuum Cleaner Co., 523 W 45th, New York
O'Neill, James Co. ("Quickwork," Hand), 256 Madison, Chicago, Ill.
P. & M. Co. ("Green"), Railway Exchange bldg, Chicago, Ill.
Palm Vacuum Cleaner Co. (Stationary), Detroit, Mich.
Perfection Vacuum Cleaner Co. (Portable), 35 So Clark, Chicago, Ill.
Rapida Specialty Co. ("Regent" Hand), Carnegie, Pa.
Regina Company ("Regina", Pneumatic), B'way & 17th, New York
Spencer Turbine Cleaner Co. (Stationary), Hartford, Conn.
Standard Electric Works ("Arnold" Electric Cleaners), Racine, Wis.
**STURTEVANT, B. F. CO. (Electric** Power), Hyde Park, Mass. (See adv. index & branch offices, end of book)
Twentieth Century Vacuum Cleaner Co. ("Banjo" Hand), 551 W 42d, New York
United Electric Co. ("Tuec" Stationary), Canton, O.
United Vacuum Appliance Co., Connellsville, O., & 114 Liberty, New York
U. S. Vacuum Cleaner Co. ("New Maid" Hand), Bradford, Pa.
Vacuum Engineering Co. ("Rotary" System), 114 Liberty, New York
Webb, Baxter Co. (Power), Anderson, Ind.

## 12623—Vacuum Drying & Impregnating Apparatus

(See also Dryers, Vacuum)

**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
Devine, J. P. Co. ("Emil Passburg"), Buffalo, N. Y.
Hubbard's, Norman Sons, 265 Water, Brooklyn, N. Y.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.
Van Loan, I. S. Co. (Inc.), Reading, Pa.

## 12624—Vacuum Jacketed Receptacle

Vacuum Insulating Co. ("Vac-Jack" Carrier, in Metal for Retaining Heat or Cold), 1647 Carroll av, Chicago, Ill.

## 12624a—Vacuum Pan Appliances

**NATIONAL GAUGE CO., 168 Sth,** Brooklyn, N. Y. (See adv. index, end of book)

## 12625—Valleys (Roll Tin)

**BERGER MFG. CO., Canton, O. (See** adv. index, end of book)

## 12626—Valve Balls (Rubber)

**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Cleveland Rubber Works, Cleveland, O.
Combination Rubber & Belting Co., Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., Passaic, N. J.
Mattson Rubber Co., Lodi, N. J.
Mechanical Rubber Co., Chicago, Ill.
Mechanical Rubber Co., 73 Reade, New York
Morgan & Wright (Inc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York

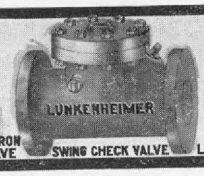
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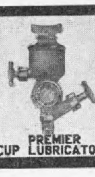






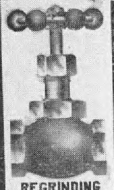






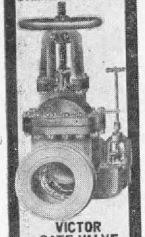


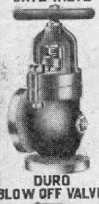


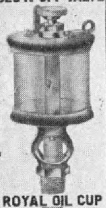











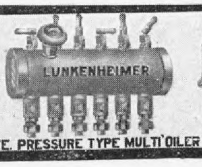


















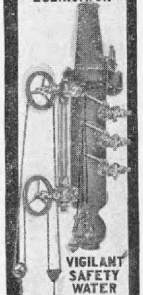






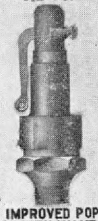
















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| SAN FRANCISCO OFFICE | Call Building |
| BOSTON OFFICE | 138 High Street |
| NEW ORLEANS OFFICE | Tulane-Newcomb Building |
| PITTSBURG OFFICE | Park Building |
| LONDON STORE | 35 Great Dover Street |
| AUSTRALIA BRANCH | A. Asher Smith, 56 Market Street, Sydney |

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# INDUSTRIAL INFORMATION

¶ We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine, tool or specialty which they may require. :: :: :: :: ::

## Hendricks' Commercial Register

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**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.

## 12627– Valve Bodies

Bethlehem Foundry & Machine Co. (Large Cast Iron Rough or Finished), South Bethlehem, Pa.

## 12627a–Valve Cups (Leather)

Kelly & Jones Co., Pittsburg, Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Whittlesey, H. E. & Sons, Corry, Pa.

## Valve Grinding Materials

(See Steel, Emery)

## 12628–Valve Mfrs. for Steam, Gas & Water

(For Jobbers of these Goods see Plumbers' Supplies, Jobbers; also Steam Fitters' Supplies Jobbers)
(For Various Kinds of Valves see Sub-classications following this list)
Acton, John, 118 John, Brooklyn, N. Y.
Ajax Valve Co. ("Ajax"), 1115 W Lake, Chicago, Ill.
Albany Steam Trap Co., Albany, N. Y.
All Metal Valve Co., 136 Liberty, New York
Alpena Industrial Works (Lewis T. Cline, Prop.), Alpena, Mich.
American Balance Valve Co., Jersey Shore, Pa.
American District Steam Co., North Tonawanda. N. Y.
American Radiator Co. (Radiator), 282 Michigan, Chicago, Ill.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
American Valve Co., Coxsackie, N. Y.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Atwood & Morrill, Salem, Mass., & 136 Liberty, New York
Bashlin Co., Warren, Pa.
Beaumont Valve & Hydrant Works, Kankakee, Ill.
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Best Mfg. Co., Pittsburg, Pa.
Bordo, L. J. Co. (Inc.), 12th & Thompson, Phila., Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Bourbon Copper & Brass Works, Cincinnati, O.
Buckeye Iron & Brass Works, Dayton, O.
Burlington Brass Works ("Kant"), Burlington, Wis.
Burrows Mfg. Co., York, Pa.
Cadman, A. W. Mfg. Co., Pittsburg, Pa.
Canton Brass & Machine Co., Canton, O.
Capital Brass Works, Detroit, Mich.
Cayuta Mfg. Co., Sayre, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Coal Fuffler & Safety Valve Co., 26 S Charles, Baltimore, Md.
Cockburn Co. (Piston), Jersey City, N. J.
Coffin Valve Co., Neponset, Boston, Mass.
Coldwell-Wilcox Co., Newburgh, N. Y.
Columbus Brass Co., Columbus, O.
Consolidated Safety Valve Co., 85 Liberty, New York
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Davis, Geo. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.
Davis, Louis N. Co., West Chester, Pa.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Dorn & Marcellus Co., York & Mascher, Philadelphia. Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eddy Valve Co., Waterford, N. Y.
Edwards, O. M. Co., Syracuse, N. Y.
Engberg's Electrical & Mechanical Works (Electro Hydraulic Valve), St. Joseph, Mich
Evans Mfg. Co., Butler, Pa.
Exeter Machine Works, Exeter, N. H.
Eynon-Evans Mfg. Co., 1519 Clearfield, Philadelphia, Pa.
Fewlass-Leen Brass & Iron Co., Cincinnati, O.
Fisher Governor Co., Marshalltown, Ia.
Ford, Thos. P. Co., 407 Broome, New York
Foster Engineering Co., 119 Monroe, Newark, N. J.
Foster, F. W. Mfg. Co., 6 Portland, Boston, Mass.
French Oil Mill Machinery Co., Piqua, O.
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
General Fire Extinguisher Co., Providence, R. I.
Georgian Mfg. Co. (Brass & Iron), Binghamton, N. Y.
Glenn, C. C., 1906 N Halsted, Chicago, Ill.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
**GORTON & LIDGERWOOD CO., 96** Liberty, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Hancock Inspirator Co., 85 Liberty, New York
Hardie-Tynes Foundry & Machine Co., Birmingham, Ala.
Harvey's, A. Sons Mfg. Co., Detroit, Mich.
Hayden, N. L. Mfg. Co. ("Tippett" Compact), Columbus, O.
Hayden & Derby Mfg. Co., 85 Liberty, New York
Haydenville Co., Haydenville, Mass.
Hills, Robt. E. & Co., 153 W Kinzie, Chicago, Ill.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Homestead Valve Mfg. Co., Homestead, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa.
Jenkins Bros., 82 White, New York
Kelly & Jones Co., Pittsburg, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Keystone Brass Co. (Special), Erie, Pa.
Kieley & Mueller, 34 W 13th, New York
Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.
Kirkup, Robt. & Co., Cincinnati, O.
Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.
Kunkle, E. B. & Co., Fort Wayne, Ind.
Lang, J. Electric Co., 423 N Lincoln, Chicago, Ill.
Lavinge Mfg. Co. ("Packless"), Detroit, Mich.
Lead Lined Iron Pipe Co., Wakefield, Mass.
Liberty Mfg. Co., Pittsburg, Pa.
Locke Regulator Co., Salem, Mass.
Loetzer Valve & Mfg. Co., Monroeton, Pa.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
**LUNKENHEIMER CO. (Also for Oil),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McCambridge & Cooper Co., Phila., Pa.
McGowan, Jno. H. Co., Cincinnati, O.
McNab & Harlin Mfg. Co., 56 John, New York
**McRAE & ROBERTS CO., 227 Camp-** bell av, Detroit, Mich. (See adv. index, end of book)
Marquette, John N. (Lead-Lined Acid), 509 S. Eden, Baltimore, Md.
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
Mason Regulator Co., 158 Summer, Boston, Mass.
Milwaukee Valve Co., Milwaukee, Wis.
Monarch Machine Works, Altoona, Pa.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Monash-Younker Co. (Steam & Water Only), 1407 W Jackson boul, Chicago, Ill.
Mueller, H. Mfg. Co., Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Tube Co., Pittsburg, Pa.
National Valve & Mfg. Co., Pittsburg, Pa.
Nelson, Chas., 439 E 10th, New York
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Nelson Valve Co., Wyndmoor, Pa.
New Bedford Boiler & Machine Co., New Bedford, Mass.
Newman Mfg. Co., 172 Fulton, New York
Nolte Brass Co. (A. B. Nolte, Prop.), Springfield, O.
Ohio Brass Co., Mansfield, O.
Ohio Injector Co., Wadsworth, O.
**OIL WELL SUPPLY CO. (Iron &** Brass), 215 Water, Pittsburg, Pa. (See adv index, end of book)
O'Meara Valve Co., 82 Center, New York
Osborne High Pressure Joint & Valve Co., Rookery bldg, Chicago. Ill.
Patterson-Allen Engineering Co., 2 Rector, New York
Perkes, Chas. (Est. of), 623 Arch, Phila., Pa.
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Pioneer Brass Works, Indianapolis, Ind.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book.)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Powell, Wm. Co., Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W. Va.
Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works, Cincinnati, O.
Rennsselaer Valve Co., Troy, N. Y.
Ross Valve Mfg. Co., Troy, N. Y.
Rundle, Spence Mfg. Co., Milwaukee, Wis.
Safety Cylinder Valve Co., Mansfield, O.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Smith, A. P. Mfg. Co., East Orange, N. J.
Smith, H. B. Co., Westfield, Mass.
South Park Foundry & Machine Co., St. Paul, Minn.
Standard Steam Specialty Co., 542 W B'way, New York
Star Brass Mfg. Co., 103 Dedham, Boston, Mass.
Stephens, Roe Mfg. Co., Detroit, Mich.
Sweet & Doyle Valve Co., Green Island, N. Y.
Swift Lubricator Co., Elmira, N. Y.
Syracuse Faucet & Valve Co. (No Packing), Syracuse, N. Y.
Thompson, J. & Co., cor Van Horn & Sophia, Phila., Pa.
Tranter Mfg. Co., Pittsburg, Pa.
United Brass Mfg. Co., Cleveland, O.
Utica Steam Gauge Mfg. Co., Frankfort, N. Y.
Walch & Wyeth ("Erwood"), 87 Lake, Chicago, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Watson & McDaniels Co., 146 N 7th, Phila., Pa.
Whitcomb, Geo. D. Co., Rochelle, Ill.
Williams, D. T. Valve Co., Cincinnati, O.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Woods Valve & Machine Co., Steubenville, O.
Wright Specialty Mfg. Co., Youngwood, Pa.

## 12629–Valve Seats (Ball)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Darling Pump & Mfg. Co., Williamsport, Pa.

## 12630– Valve Stems

Bliss Supply Co., Cleveland, O.
Electric Welding Products Co., Cleveland, O.
Erie Forge Co., Erie, Pa.
Page-Storms Drop Forge Co., Youngwood, Pa.
Union Drop Forge Co. (Drop Forged), 358 W Indiana, Chicago, Ill.

## 12631–Valve Testing Device

**WESTINGHOUSE AIR BRAKE CO.** ("Westinghouse" Portable, Triple), Pittsburg, Pa.

## 12632–Valves (Accumulator)

**PITTSBURGH VALVE FOUNDRY &** Construction Co., 26th & A V Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12633– Valves (Acid)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Cleveland Bronze & Brass Works ("Acimet"), Cleveland, O.
Darling Pump & Mfg. Co., Williamsport, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Graham, Chas. Chemical Pottery Works (Stoneware), 986 Metropolitan av, Brooklyn, N. Y.
Homestead Valve Mfg. Co., Homestead, Pa.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co., Pittsburg, Pa.
Marquette, John N. (Lead-Lined), 509 S Eden, Baltimore, Md.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

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**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)
Pratt Engineering & Machine Co. (Straightway or Angle), Atlanta, Ga.
Rensselaer Valve Co., Troy, N. Y.
Robertson, Jas. Lead Co., Baltimore, Md.
**SHAW, BENJ. F. CO., Wilmington,** Del. (See adv. index, end of book)
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
United States Stoneware Co. (Glazed Stoneware), Akron, O.

## 12634—Valves (Acid Egg)

Hancock-Holmes Fdry. & Machine Works, Atlanta, Ga.
Robertson, Jas. Lead Co., Baltimore, Mr.

## 12635—Valves (Adams or Y)

Crane Valve Co., Bridgeport, Conn.
Portland Co. (Bronze Y), Portland, Me.
Williams, D. T. Valve Co., Cincinnati, O.

## 12635a— Valves (Air)

All Metal Valve Co., 136 Liberty, New York
American Foundry & Construction Co., Pittsburg, Pa.
American Pin Co., Waterbury, Conn.
American Radiator Co. (Automatic, "Libra," "Norwall" & "Sylphon"), 282 Michigan av, Chicago, Ill.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila.. Pa.
Belknap Mfg. Co. (Automatic), Bridgeport, Conn.
Best Mfg. Co., Pittsburg, Pa.
Bogardus, H. A. & Co. ("Trident" Automatic), 159 W Huron, Chicago, Ill.
Buckeye Iron & Brass Works, Dayton, O.
Canton Brass & Machine Co. (Radiator), Canton, O.
Caskey Valve Co. (High Pressure), 99 John, New York
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Coffin Valve Co., Neponset, Boston, Mass.
Consolidated Engineering Co. ("Van Auken" Water Seal, Automatic), 507 W Jackson boul, Chicago, Ill.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Davis, Geo. M. Regulator Co. ("Victor"), 422 Milwaukee av, Chicago, Ill.
Dole Valve Co. (Automatic), 22 5th av, Chicago, Ill.
Eddy Valve Co., Waterford, N. Y.
Exeter Machine Works, Exeter, N. H.
Foster Engineering Co. (Air Reducing & Relief), 119 Monroe, Newark, N. J.
General Fire Extinguisher Co., Providence, R. I.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
Harlem Mfg. Co. ("Omega," Automatic, etc.), 42 W 67th, New York
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co. (Automatic, etc.), 1801 Diversey boul, Chicago, Ill.
**INDUSTRIAL INSTRUMENT CO.** (And Automatic Radiator Air). Foxboro, Mass. (See adv. index & branch offices, end of book)
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Jenkins Bros. (Automatic, etc.), 82 White, New York
Kelly & Jones Co. (Radiator), Pittsburg, Pa.
Lawler Regulator Co. ("Lawler" Automatic Floatless for Hot Water Radiators), 473 W Broadway, New York
Leyner, J. Geo. Engineering Works Co., Littleton, Col.
Loetzer Valve & Mfg. Co. (For Water Mains). Monroeton, Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
**LUNKENHEIMER CO. General Offices & Works.** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)
Magee, Alonzo H. ("Jumbo'"), 106 Beekman, New York
Marsh, James P. Co. ("Acme," "Paul," "S. & H. Special," "Illinois"), 32 W Washington, Chicago, Ill.
**MERRITT & CO. (Automatic, for** Opening & Closing Inlets & Outlets of Sewage Disposal Plants), 93 Arch, Camden, N. J. (See adv. index, end of book)
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Monash-Younker Co. ("Perfected Duplex Monash"), 1407 W Jackson boul, Chicago. Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Steam Specialty Co. ("National," "Economy" Radiator), 16 S Clinton, Chicago, Ill.
Penna. Engineering Co. ("Penn"), 1119 N Howard, Phila., Pa.
Pierce, Butler & Pierce Mfg. Co. ("American," "Pneu-Vent," "Royal"), Syracuse, N. Y.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh. Pa. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Q. M. S. Co., Plainfield, N. J.
Rensselaer Valve Co., Troy, N. Y.
Roberts Brass Mfg. Co., Detroit, Mich.
Russell, W. A. & Co. ("Imperial" Automatic), 63 W 37th, New York
**SIMMONS, JOHN CO. (For Radiators),** 104 Centre, New York. (See adv. index, end of book)
Simplex Valve & Meter Co. (Automatic for Water Main), 112 N Broad, Phila., Pa.
Smith, H. B. Co. ("Breckenridge" Automatic), Westfield, Mass.
Sterling & Skinner Mfg. Co. (Radiator Air), Detroit, Mich.
Thompson, J. & Co. (Poppet), c Van Horn & Sophia, Phila., Pa.
United States Gauge Co. ("U. S." Automatic for Low Pressure Heating), 67 Wall, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Whitcomb, Geo. D. Co., Rochelle, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Woods Valve & Machine Co., Steubenville, O.

## 12636—Valves (Air Discharge, Pressed Steel)

**PRESSED STEEL TANK CO. (For** Blowing Engines & Compressors), Milwaukee, Wis. (See adv. index, end of book)

## 12637—Valves (Air, for Coal Mines)

Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Woods Valve & Machine Co., Steubenville, O.

## 12638—Valves (Air Regulating)

**STRONG, CARLISLE & HAMMOND Co., 336 Frankfort av, N W, Cleveland, O.** (See adv. index, end of book)

## 12639—Valves (Altitude Controlling)

Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg, Pittsburg, Pa.
Simplex Valve & Meter Co. (For Controlling the Level of Water in Reservoirs, Stand Pipes & Railroad Tanks), 112 N Broad, Phila., Pa.

## 12640—Valves (Ammonia)

American Valve Co., Coxsackie, N. Y.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Brunswick Refrigerating Co., New Brunswick, N. J.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Foster Engineering Co. (Pressure), 119 Monroe, Newark, N. J.
Great Lakes Engineering Works, Detroit, Mich.
Kelly & Jones Co., Pittsburg, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Ludlow Valve Mfg. Co., Troy, N. Y.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Triumph Ice Machine Co., Cincinnati, O.
Vogt, Henry Machine Co., Louisville. Ky.
Wolf, Fred W. Co. (Angle, Check, Globe, Plug, Expansion Gate & Steep Tank), 827 Rees, Chicago, Ill.
Woods Valve & Machine Co., Steubenville, O.
Wright Specialty Mfg. Co. (Iron & Steel Body), Youngwood, Pa.

## Valves (Angle)

(See Valves, Globe & Angle)

## 12641—Valves (Anti-Freezing)

Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

## 12642—Valves (Asbestos Packed)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Pratt & Cady Co., Hartford, Conn.

## 12643—Valves (Automatic Air)

(See Valves, Air)

## 12644—Valves (Back Pressure)

Acton, John, 118 John, Brooklyn, N. Y.
American District Steam Co., North Tonawanda, N. Y.
Atwood & Morrill ("XX" Century), Salem, Mass., & 136 Liberty, New York
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Buckeye Iron & Brass Works, Dayton, O.
Burrows Mfg. Co., York, Pa.
Coldwell-Wilcox Co., Newburgh, N. Y.
Consolidated Engineering Co. ("Van Auken"), 507 W Jackson boul, Chicago, Ill.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Davis, Geo. M. Regulator Co., 422 Milwaukee av, Chicago, Ill.
Eastwood Wire Mfg. Co., Belleville, N. J.
Edwardsville Brass Co., Edwardsville. Ill.
Ford, Thomas P. Co., 407 Broome, New York
Foster Engineering Co. (For Heating Systems), 119 Monroe, Newark, N. J.
Garrett, W. D. & Co., 136 Liberty, New York
General Fire Extinguisher Co., Providence, R. I.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Hughson Steam Specialty Co. ("Eclipse"), 5021 S State, Chicago, Ill.
Hussey, McCann & Co., 87 Warren, New York
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Imperial Iron Works, Duluth, Minn.
Jenkins Bros. ("Excelsior"), 82 White, New York
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kieley & Mueller, 34 W 13th, New York
Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices. end of book)
Konold, M. J. Co., Pittsburg, Pa.
Locke Regulator Co., Salem, Mass.
McGowan, John H. Co., Cincinnati, O.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa.** (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Pratt & Cady Co., Hartford, Conn.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Stephens, Roe Mfg. Co. ("Scott"), 1072 McKinley av, Detroit, Mich.
Williams, D. T. Valve Co., New York

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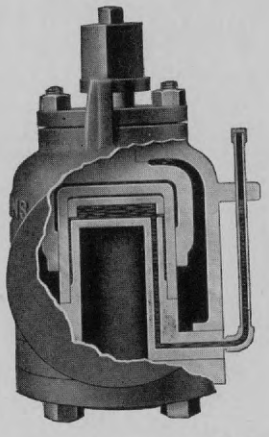
# Rothchild

# Rotary Gate Blow-off Valve

**The specification of Plumbing, Steam Fitting and Engineering Supplies that bear the "Simmons Mark" is an insurance against dissatisfaction, a guarantee of efficiency and highest standard of quality.**

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is a marked improvement over any other class of Blow-Off Valve in use. It is guaranteed to be the **only valve ever made** that will positively hold steam, water, ammonia, gas, oil or other fluids, **hot** or **cold.** It is specified for use on all big installations where only highly dependable fittings are required.



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has been subjected to severe tests---tests that have proven conclusively their complete efficiency and dependability. It is recognized as the **"Standard of the Valve World"** by the most eminent engineers of the century.

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## SIMMONS LOCKNUT PLATES

are made of **cast iron** and brass and designed for use in either concrete or wood flooring. On every installation they have met with the greatest satisfaction. The extended sleeve makes an absolutely water-tight joint and prevents water from dripping to floor below when concret flooring is flushed.



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ESTABLISHED 1891

## For Buyers and Sellers

PUBLISHED ANNUALLY BY

**S. E. Hendricks Co., 74 Lafayette Street, New York City**


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## 12645—Valves (Back Water & Sewer Gas)

Barrett, Jas. Mfg. Co., Boston, Mass.
Edwardsville Brass Co., Edwardsville, Ill.
Kennedy Valve Mfg. Co. ("Pennie"), Elmira, N. Y.
Robertson, John & Co. ("Pennies"), 133 Water, Brooklyn, N. Y.

## 12646—Valves (Balance)

Acton, John, 118 John, Brooklyn, N. Y.
American Balance Valve Co. **("American" Balanced & "Jack Wilson" High Pressure), Jersey Shore, Pa.**
American Foundry & Construction Co., Pittsburg, Pa.
Atwood & Morrill **("Lever"), Salem, Mass., & 136 Liberty, New York**
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Bridgman Bros Co. ("Quick Opening" Balanced Regulating), 1422 Washington av, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, G. M. Regulator Co. (Steam, Air & Water), 422 Milwaukee av, Chicago, Ill.
Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
Foster Engineering Co. (Leer), 119 Monroe, Newark, N. J.
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
Glenn, C. C., 1906 N Halsted, Chicago, Ill.
Gould Balance Valve Co., Kellogg, Ia.
Hammett, H. G. ("Richardson" & "Allen-Richardson" Slide Locomotive), Troy, N. Y.
Harris, Arthur & Co. ("Harris"), 212 N Curtis, Chicago, Ill.
Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.
Locke Regulator Co., Salem, Mass.
Mason Regulator Co., 158 Summer, Boston, Mass.
**NASON MFG. CO. (Balance & Quick** Opening), 71 Fulton, New York. **(See adv. index, end of book)**
Newton Balance Valve Co., Newton, Ia.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Pittsburg, Pa.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Spencer Regulator Co. ("Spencer"), Salem, Mass.
Stephens, Roe Mfg. Co., Detroit, Mich.
Waters Governor Co., Everett, Mass.
Woods Valve & Machine Co., (Non-Leather), Steubenville, O.

## 12647—Valves (Balance Lever)

**GARDNER GOVERNOR CO. (For** Steam Pumps), Quincy, Ill. (See adv. index & branch offices end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry. Pittsburgh, Pa. (See adv. index, end of book)

## 12648— Valves (Ball)

Darling Pump & Mfg. Co., Williamsport, Pa.
Williams, D. T. Valve Co., Cincinnati, O.

## 12649—Valves (Bell End)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12649a—Valves (Bicycle Tire)

(See also Valves, Motor Tire)

Schrader's, A. Son (Inc.) ("Schrader"), 30 Rose, New York

## 12650—Valves (Blast Furnace)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Hartman Co., 1231 N Front, Phila., Pa.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. **(See adv. index & branch offices, end of book)**

## 12651—Valves (Blast & Gas)

American Foundry & Construction Co., Pittsburg, Pa.
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Best Mfg. Co., Pittsburg, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Connersville Blower Co., Connersville, Ind.
Crane Co. (Est. 1855), 1214 S Canal, Chicago Ill. (See adv. index & branch offices, end of book)
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Morgan Construction Co., Worcester, Mass.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Roots, P. H. & F. M. Co., Connersville, Ind.
Weimer Machine Works Co., Lebanon, Pa.

## 12652— Valves (Blind)

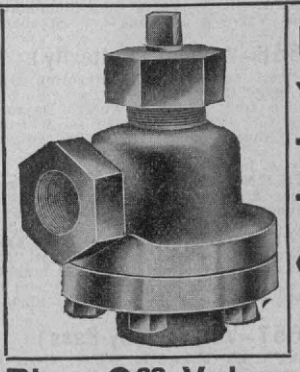
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)

## 12653—Valves (Blow-off)

Ajax Valve Co. ("Ajax"), 1115 W Lake, Chicago, Ill.
Bashlin Co., Warren, Pa.
Belfield, M. & Co., 435 N. Broad, Phila., Pa.
Best Mfg. Co. ("Myers," "Heston"), Pittsburg, Pa.
Bordo, L. J. Co. (Inc.) (For Locomotives, also Blower), 12th & Thompson, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Cadman, A. W. Mfg. Co. (High Pressure, etc.), 2814 Smallman, Pittsburg, Pa.
Caskey Valve Co. (High Pressure), 99 John, New York
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Chester Engineering & Machine Co., Chester, Pa.
Crane Co. (Est. 1855), 1214 S Canal. Chicago Ill. (See adv. index & branch offices. end of book)
**CROSBY STEAM GAGE & VALVE** Co. ("Johnstone"), 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. C. (Ltd.), Williamsport, Pa.
Eastwood Wire Mfg. Co. (For Digesters, etc.), Belleville, N. J.
Elliott Co. ("Faber"), Pittsburg, Pa.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa.
Golden-Anderson Valve Specialty Co. ("Golden"), Fulton bldg, Pittsburg, Pa.
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Homestead Valve Mfg. Co., Homestead, Pa.
Huxley, C. E. & Co. ("Huxley" Ball), 566 W Randolph, Chicago, Ill.
Jenkins Bros., 82 White, New York
Jerguson Mfg. Co. ("Freeport"), 221 Columbus av, Boston, Mass.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Konold, M. J. Co. (Locomotive), Pittsburg, Pa.
Liberty Mfg. Co. ("Faber," Self-Cleaning), 6907 Susquehanna, Pittsburg, Pa.

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HENDRICKS' COMMERCIAL REGISTER.

**LUNKENHEIMER CO. ("Duro" Locomotive,** Angle & Straightway), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**LYTTON MFG. CORP. ("Lytton"),** Hudson Terminal, New York; Works: Franklin, Va. (See adv. index & branch offices, end of book)



Blow-Off Valves
Lytton M'f'g. Corp.
SALES OFFICE,
1159 HUDSON TERMINAL,
NEW YORK, N. Y.
WORKS, FRANKLIN, VA.

Monarch Machine Works ("Riggin"), Altoona, Pa.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**National Supply Co. ("Shaw"), Toledo, O.**
National Tube Co. (Iron Body), Pittsburg, Pa.
Osborne High Pressure Joint & Valve Co. ("Osborne, Protected Seat" Flanged & Screw Ends), The Rookery, Chicago, Ill.
Patterson-Allen Engineering Co. ("Everlasting"), 2 Rector, New York
**PITTSBURGH GAGE & SUPPLY CO.,** ("Clean Seat"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Powell, Wm. Co. ("Cyclone"), Cincinnati, O.
Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.
Scully Steel & Iron Co. ("Everlasting"), Ashland av & 24th, Chicago, Ill.
**SIMMONS, JOHN CO. ("Rothschild"),** 104-110 Centre, New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
Tranter Mfg. Co. ("Robertson"), Pittsburg, Pa.
Watson & McDaniel Co. ("W. & McD.," Straightway), 146 N 7th, Philadelphia, Pa.
Wickes Bros., Saginaw, Mich.
Williams, D. T. Valve Co., Cincinnati, O.
Williams Gauge Co., Pittsburg, Pa.
Yarnall-Waring Co. ("Simplex"), 1109 Locust, Phila., Pa.

## 12654—Valves (Boiler Feed)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Golden-Anderson Valve Specialty Co. ("Anderson" Cushioned Check), Fulton bldg, Pittsburg, Pa.
Knapp Bros. Mfg. Co. ("Knapp's" Automatic), 2419 W 14th, Chicago, Ill.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry. Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Williams, D. T. Valve Co., Cincinnati, O.

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## 12655—Valves (Boiler Stop)

Darling Pump & Mfg. Co., Williamsport, Pa.
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg, Pittsburg, Pa.
New Bedford Boiler & Machine Co., New Bedford, Mass.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry. Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Williams, D. T. Valve Co., Cincinnati, O.
Woods Valve & Machine Co., Steubenville, O.

## 12656—Valves (Butterfly)

American Foundry & Construction Co., Pittsburg, Pa.
Best Mfg. Co., Pittsburg, Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855) (Brass & Iron), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co., Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry. Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.

## 12657—Valves (By-Pass)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Ford, Thos. P. Co., 407 Broome, New York
Pittsburg Valve & Fittings Co., Barberton, O.

## 12658—Valves (Check)

Acton, Jno. (Boiler Automatic Stop-off), 118 John, Brooklyn, N. Y.
Ajax Valve Co. ("Ajax," Swing), 1115 W Lake, Chicago, Ill.
Albany Steam Trap Co., Albany, N. Y.
American Foundry & Construction Co., Pittsburg, Pa.
**American Valve Co., Coxsackie, N. Y.**
Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Best Mfg. Co. ("Climax"), Pittsburg, Pa.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
Buckeye Iron & Brass Works, Dayton, O.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Coffin Valve Co., Neponset, Boston, Mass.
Coldwell-Wilcox Co., Newburg, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Davis, G. M. Regulator Co. (Auto), 422 Milwaukee av, Chicago, Ill.
**DEANE STEAM PUMP CO., B'way &** Cedar, New York. (See adv. index & branch offices, end of book)
Detroit Brass Works, Detroit, Mich.
Draper Mfg. Co. (Ball Check), Port Huron, Mich.
Eastwood Wire Mfg. Co. (Regrindng), Belleville, N. J.
Eddy Valve Co., Waterford, N. Y.
Evans Mfg. Co., Butler, Pa.
Everhart Brass Works (Heavy Brass), Scranton, Pa.
Eynon-Evans Mfg. Co. (Extra Heavy), 1509 Clearfield, Phila., Pa.
Fewlass-Leen Brass & Iron Co., Cincinnati, O.
Foster Engineering Co. (Automatic Non-Returning), 119 Monroe, Newark, N. J.
French Oil Mill Machinery Co., Piqua, O.
General Fire Extinguisher Co., Providence, R. I.
Glenn, C. C., 1906 N Halstead, Chicago, Ill.
Golden-Anderson Valve Specialty Co., Fulton bldg., Pittsburg, Pa.
Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.
Hancock Inspirator Co., 85 Liberty, New York
Hayden & Derby Mfg. Co. (Swing), 85 Liberty, New York
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Hennebohle, Frank (Automatic), Chicago & Erie avs, So. Chicago, Ill.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Illinois Malleable Iron Co., 1801 Diversey boul. Chicago, Ill
Jarecki Mfg. Co., Erie & Pittsburg, Pa.

When writing to firms whose names appear in this book please mention HENDRICKS' COMMERCIAL REGISTER.

Jenkins Bros., 82 White, New York
Kelly & Jones Co. (Brass, Iron Body, etc.), Pittsburg, Pa.
Kennedy Valve Mfg. Co. ("Swinging"), Elmira, N. Y.
Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
Lagonda Mfg. Co. (Automatic Cut-Off), Springfield, O.
Locke Regulator Co., Salem, Mass.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
**LUNKENHEIMER CO. (Ball &** Swing), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
McMann & Taylor ("Acorn"), 104 John, New York
McNab & Harlan Mfg. Co., 56 John, New York
Milwaukee Valve Co. ("M" Disc), Milwaukee, Wis.
Mueller H. Mfg. Co., Decatur, Ill.
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
National Tube Co. (High Duty, Steam, Metal, "Kewanee" Union), Pittsburg, Pa.
**Nelson, Chas., 439 E 10th, New York**
Nelson, N. O. Mfg. Co. ("Reid"), St. Louis, Mo.
Nelson Valve Co. (Brass & Iron), Wyndmoor, Pa.
New Bedford Boiler & Machine Co., New Bedford, Mass.
Nolte Brass Co., Springfield, O.
Ohio Brass Co., Mansfield, O.
Ohio Injector Co. ("O. I. Co."), Wadsworth, Ohio
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Osborne High Pressure Joint & Valve Co. ("Osborne" Protected Seat), The Rookery, Chicago, Ill.
Peck Bros. Co., New Haven, Conn.
Pittsburg Valve & Fittings Co., Barberton, O.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Powell, Wm. Co. ("Star"), Cincinnati, O.
Pratt & Cady Co., Hartford, Conn.
**Queen City Brass & Iron Works, Spring Grove & Garrard avs, Cincinnati, O.**
Rensselaer Valve Co., Troy, N. Y.
Rundle-Spencer Mfg. Co., Milwaukee, Wis.
Schutte & Koerting Co. (& Auto Stop Check), 1251 N 12th. Phila., Pa.
Star Brass Mfg. Co., Boston, Mass.
**Stephens, Roe Mfg. Co.** ("Flower," "Scott," "Rouse"), Detroit, Mich.
Thompson, J. & Co., cor Van Horn & Sophia, Philadelphia, Pa.
United Brass Mfg. Co., Cleveland, O.
Walch & Wyeth, 87 Lake, Chicago, Ill.
Walworth Mfg. Co., Boston, Mass.
Williams, D. T. Valve Co., Cincinnati, O.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

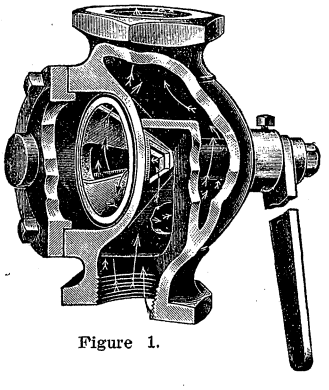



Figure 1.

# UNION WATER METER CO.,

Worcester, :: Mass.

**Chronometer Valves,** Indispensable where sensitiveness and quick action are required.

**Steam Fire Alarm Gongs,**

**Water Meters.**

CATALOG H. 45.


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## 12659—Valves (Chimney)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Hartman Co. (For Blast Furnace), 1231 N Front, Phila., Pa.

## 12660—Valves (Chronometer)

Kelly & Jones Co. ("Empire" Automatic), Pittsburg, Pa.
**UNION WATER METER CO. (For** Water, Steam, Gas & Pump Regulation), Worcester, Mass. (See adv. index, end of book)

## 12661—Valves (Closet Flushing)

(See Valves, Flushing)

## Valves (Coke Oven)

(See Valves, Gas & Coke Oven)

## 12662—Valves (Corner)

Buckeye Iron & Brass Wks. (With or Without Jenkins Disc), Dayton, O.
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Kennedy Valve Mfg. Co. (Renewable Disc), Elmira, N. Y.
**LUNKENHEIMER CO., General Offices &** Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 12663—Valves (Critchlow)

**MORGAN ENGINEERING CO., Alliance,** O. (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co. (Operating), 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12664— Valves (Cross)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co. ("Excelsior," Regrinding), Pittsburg, Pa.
Milwaukee Valve Co. ("M.," Brass), Milwaukee, Wis.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.

## 12665—Valves (Cut-off)

Lagonda Mfg. Co. ("Weinland" Automatic), Springfield, O.

## 12666—Valves (Cylinder Operated)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12667—Valves (Diaphragm Reducing)

Watson & McDaniel Co. ("Watson"), 146 N 7th, Phila., Pa.

## 12668—Valves (Electrically Operated)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Nelson Valve Co., Wyndmoor, Pa.

## 12669—Valves (Emergency)

Garrett, W. D. & Co. (Boiler Shut-Off), 136 Liberty, New York
**NATIONAL BRAKE & ELECTRIC** Co. (And Variable Release; "National" for Electric Cars), Larkin & Belleview pl, Milwaukee, Wis. (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12670—Valves (Eurema "Y")

National Tube Co. (Iron Body), Pittsburg, Pa.

## 12671—Valves (Exhaust)

**BARCO BRASS & JOINT CO. (Auto-**mobile), 226 N Jefferson, Chicago, Ill. (See adv. index, end of book)
Best Mfg. Co., Pittsburg, Pa.
**BLAKE, GEO. F. MFG. CO. (Exhaust** Relief), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster Engineering Co. (Free Exhaust), 119 Monroe, Newark, N. J.
**KNOWLES STEAM PUMP WORKS** (Exhaust Relief), B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO. ("Three-**Way"), Cambridge, Boston, Mass. (See adv. index & branch offices, end of book)
Nelson Valve Co., Wyndmoor, Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12671a—Valves (Expansion)

Osborne High Pressure Joint & Valve Co. ("Osborne" Globe & Angle for Ammonia, Carbon-Dioxide, etc.), The Rookery, Chicago, Ill.

## 12672—Valves (Fibre)

(See also Fibre Manufacturers, Hard)

**AMERICAN VULCANIZED FIBRE** Co. (Vulcanized), Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wil-**mington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Els-**mere, Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY** Co. (Vulcanized), Wilmington, Del. (See adv. index & branch offices, end of book)

## 12673—Valves (Fire Extinguisher)

**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.

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## 12674— Valves (Float)

Best Mfg. Co., Pittsburg, Pa.
Bushnell Tank Works, Bushnell, Ill.
Butler Co., Butler, Ind.
**CALDWELL, W. E. CO. ("Caldwell"** for Tanks, Cisterns, etc.), Brook & O, Louisville, Ky. (See adv. index, end of book)
Davis, G. M. Regulator Co. ("Davis"), 422 Milwaukee av, Chicago, Ill.
Eddy Valve Co. (Automatic Balance), Waterford, N. Y.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Foster Engineering Co. (Auxiliary & Direct Acting Type), 119 Monroe, Newark, N. J.
Foster, F. W. Mfg. Co. ("Nev-R-Lek"), Boston, Mass.
Golden-Anderson Valve Specialty Co. ("Anderson" Automatic), Fulton bldg, Pittsburg, Pa.
Hayes Pump & Planter Co. ("The Enterprise"), Galva, Ill.
Kettler Brass Mfg. Co., Houston, Tex.
Klipfel Mfg. Co. ("K. & T.," Tank), 214 N Carpenter, Chicago, Ill.
Lavigne Mfg. Co. (Gasoline), Detroit, Mich.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26 & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, Pittsburg Valve & Fittings Co., Barberton, O.
**SIMMONS, JOHN CO., 104 Centre,** New York (See adv. index, end of book)

## 12675—Valves (Flushing)

American Pin Co, (Syphon), Waterbury, Conn.
Ansonia Mfg. Co., 30 Church, New York
Boston Brass Co., 36 Oliver, Boston, Mass.
Boston Tool Co. ("Tarleton" Tank Supply Valve), Boston, Mass.
Central Brass Works, Cincinnati, O.
Columbus Brass Co., Columbus, O.
Crown Valve & Supply Co. ("Crown"), 558 W 158th, New York
Dalton-Ingersoll Co., 169 High, Boston, Mass.
Dececo Co. ("Carson N-B, "D-C"), Boston, Mass.
Detroit Bath Tub & Brass Co., Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Eljer Co. ("Eljer"), Cameron, W. Va.
Excelovalve Co. ("Excel-O-Valve"), 25 W 42d, New York
Federal-Huber Co., Halsted & Fulton, Chicago, Ill.
Flush-O-Valve Co. ("Flush-O-Valve"), 45 W 34th, New York
Foster, F. W. Mfg. Co. ("Nev-R-Lek"). 6 Portland, Boston, Mass.
Frost Mfg. Co. ("Frost" Low-down Closet, etc.), Kenosha, Wis.
Haines, Jones & Cadbury Co., 1136 Ridge av, Philadelphia, Pa.
Haydenville Co., Haydenville, Mass.
Heap, Wm. & Sons (Syphon), Grand Haven, Mich.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
**Humphreys Mfg. Co., Mansfield, O.**
Ideal Mfg. Co., Detroit, Mich.
Jenkins Mfg. Co. ("Novio"), 20 Vesey, New York
Keystone Sanitary Supply Co. ("Dr. Isago's"), Pittsburg, Pa.
Lipp, Louis Co., Cincinnati, O.
McDonald, A. V. Mfg. Co., Dubuque, Ia.
**MERRITT & CO. (For Flushing** Sewers), 93 Arch, Camden, N. J. (See adv. index, end of book)
Monarch Brass Co. ("Monarch" Gravity), Cleveland, O.
Monarch Closet Valve Co., Indianapolis, Ind.
Mott, J. L. Iron Works, 118 5th av, New York
Murphy Specialty Co. ("Murphy"), Milwaukee, Wis.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Park & McKay Co., Detroit, Mich.
Pasman, A. N. ("Crest"), Jersey City, N. J.
Pfau Mfg. Co., Cincinnati, O.
Phillips Flushing Tank Co. ("Boston"), 66 Batterymarch, Boston, Mass.
**PITTSBURG GAGE & SUPPLY CO.** ("Gaco"), 30th & Liberty av, Pittsburg, Pa. (See adv. index, end of book)
Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.
Republic Mfg. Co. ("Republic" Oil Regulated "Brooks' Patent"). Chicago, Ill.
Sanitas Mfg. Co. ("Sanitas"), 54 Union, Boston, Mass.
**SIMMONS, JOHN CO. ("Rothschild"),** 104-110 Centre, New York. (See adv. index, end of book)

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Standard Sanitary Mfg. Co., Pittsburg, Pa.
**STEIN, HENRY ("N. H. Syphon" & "Cage")**, 48 Cliff, New York. (See adv. index, end of book)
Street & Kent Mfg. Co., 549 Fulton, Chicago, Ill.

## 12676– Valves (Foot)

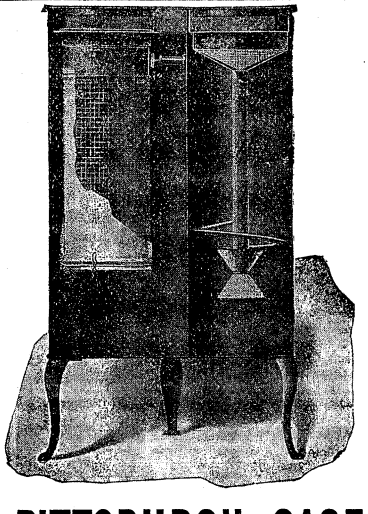
**ABENDROTH & ROOT MFG. CO.** (Galvanized Flanged), Newburgh, N. Y. (See adv. index & branch offices, end of book)
American Foundry & Construction Co., Pittsburg, Pa.
**AMERICAN SPIRAL PIPE WORKS** (Also Valve & Strainer Combined), W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
**AMERICAN WELL WORKS, Aurora,** Ill. (See adv. index & branch offices, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
**BLAKE, GEO. F. MFG. CO., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., (Newman** Patent Continuous Service), 172 Fulton, New York. (See adv. index, end of book)
Buckeye Iron & Brass Works, Dayton, O.
Butler Co., Butler, Ind.
**Coffin Valve Co., Neponset, Boston, Mass.**
**Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)**
Crane Valve Co., Bridgeport, Conn.
**Darling Pump & Mfg. Co., Williamsport, Pa.**
**Eastwood Wire Mfg. Co., Belleville, N. J.**
**Eddy Valve Co., Waterford, N. Y.**
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffman-Billings Mfg. Co., Milwaukee, Wis.
**Illinois Malleable Iron Co., 1801 Diversey boul,** Chicago, Ill.
Kelly & Jones Co. (Brass, Iron & Iron Body), Pittsburg, Pa.
**KNOWLES STEAM PUMP WORKS,** B'way & Cedar, New York. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Tube Co. (Iron Body), Pittsburg, Pa.
Newbury, J. H., Goshen, N. Y.
**Newman Mfg. Co. ("Newman" Continuous** Service), 172 Fulton, New York
**Pancoast, H. B. & Co. (Combined Foot Valve & Strainer), 243 S 3d, Phila., Pa.**
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)**
Pittsburg Valve & Fittings Co., Barberton, O.
**Stephens-Roe Mfg. Co. ("Flower"), Detroit, Mich.**
**Thompson, J. & Co., cor Van Horn & Sophia,** Philadelphia, Pa.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
**WORTHINGTON, HENRY R., B'way** & Cedar, New York. (See adv. index & branch offices, end of book)

## 12677–Valves (Gas Log)

Crane Valve Co. (Brass), Bridgeport, Conn.
Hays Mfg. Co., Erie, Pa.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)

## 12678–Valves (Gas Main)

Bate, Wm. T. & Son, Conshohocken, Pa.
Beaumont, Richard (Est. of), Kankakee, Ill.
Bowler Foundry Co., Cleveland, O.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855) (Iron & Brass), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williams-
Eddy Valve Co., Waterford, N. Y. port, Pa.
Gas Machinery Co., Cleveland, O.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Loetzer Valve & Mfg. Co. ("Loetzer Dual"), Monroeton, Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Nelson Valve Co., Wyndmoor, Pa.
**PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)**
Rensselaer Valve Co., Troy, N. Y.
Roberts Brass Mfg. Co., Detroit, Mich.
Stephens, Roe Mfg. Co., Detroit, Mich.
Thompson, J. & Co., Van Horn & Sophia, Phila., Pa.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

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## 12679–Valves (Gas or Coke Oven)

Best Mfg. Co., Pittsburg, Pa.
Bowler Foundry Co. ("Higgs," Water Cooled), Cleveland, O.
Crane Valve Co., Bridgeport, Conn.
Crane Co. (Est. 1855) (Brass), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Hays Mfg. Co., Erie, Pa.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
Kennedy Valve Mfg. Co. (Light All Iron Gate with Steel Stem), Elmira, N. Y.
McNab & Harlin Mfg. Co., 56 John, New York
Pittsburg Brass Mfg. Co. (Coke Oven), Penna av & 32d, Pittsburg, Pa.
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Swindell, Wm. & Bros., Pittsburg, Pa.
Williams, D. T. Valve Co., Cincinnati, O.
Woods Valve & Machine Co., Steubenville, O.

## 12679a–Valves (Gas Producer Plant)

Osborne High Pressure Joint & Valve Co. ("Osborne" Iron Bodies), The Rookery, Chicago, Ill.

## 12680–Valves (Gas, Siemen)

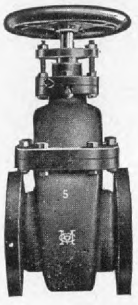
**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Velte Foundry & Machine Co., Pittsburg, Pa.

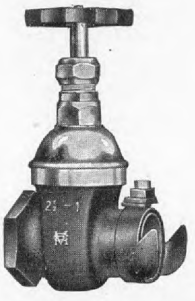
## 12681– Valves (Gate)

Albany Steam Trap Co., Albany, N. Y.
American District Steam Co. (Packless Iron & Brass Body), North Tonawanda, N. Y.
American Foundry & Construction Co., Pittsburg, Pa.
American Foundry & Mfg. Co., St. Louis, Mo.
American Valve Co., Coxsackie, N. Y.
Belfield, H. & Co. (Brass or Iron), 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Buckeye Iron & Brass Works, Dayton, O.
Capitol Brass Works ("Standard"), Detroit, Mich.
Cayuta Mfg. Co. (For Steam, Gas & Oil), Sayre, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Coldwell-Wilcox Co. ("Wilcox"), Newburgh, N. Y.
**Crane Co. (Est. 1855) (Iron & Brass), 1214 S Canal, Chicago, Ill. (See adv. index and branch offices, end of book)**
Crane Valve Co., Bridgeport, Conn.
**Darling Pump & Mfg. Co., Williamsport, Pa.**
**Detroit Brass Works, Detroit, Mich.**
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eddy Valve Co. ("Eddy" Parallel & Taper Seat), Waterford, N. Y.
Exeter Machine Works, Exeter, N. Y.
General Fire Extinguisher Co., Providence, R. I
Harvey's, A. Sons Mfg. Co., Detroit, Mich.
Haydenville Co., Haydenville, Mass.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Homestead Valve Mfg. Co. (Straightway), Homestead, Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Jenkins Bros., 82 White, New York
Kelly & Jones Co. (Brass & Iron), Pittsburg, Pa.
Kennedy Valve Mfg. Co. (Iron, Brass & Bronze), Elmira, N. Y.
Loetzer Valve & Mfg. Co. ("Loetzer" Double), Monroeton, Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
**LUNKENHEIMER CO. ("Clip," "Victor"** "Double Disc" & "Handy"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McLean, John ("Ayers"), 440 Water, New York
McMann's, Thos. R. Co. ("Russell"), 58 Gold, New York
McNab & Harlin Mfg. Co. (Brass & Iron Body), 56 John, New York
Milwaukee Valve Co., Milwaukee, Wis.

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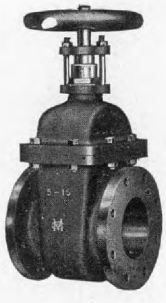
# MONARCH VALVES

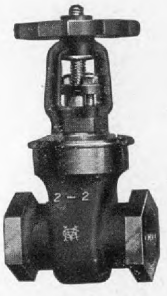







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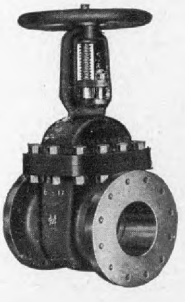










# Monarch Valve & Mfg. Co.

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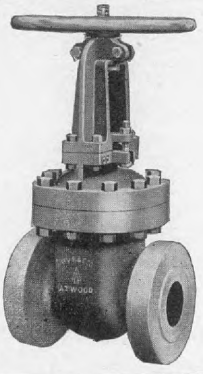
Warren, Mass. 39 Cortlandt St., New York. 55 Batterymarch St., Boston, Mass.

Frick Bldg. Annex, Pittsburg, Pa. 419 W. 18th St., Chicago, Ill.

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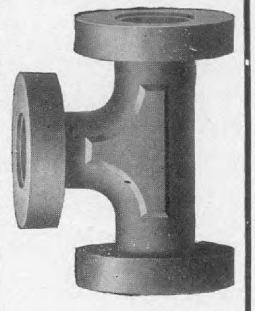
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**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Tube Co. (High-Duty & Steam, Metal, "Kewanee" Union), Pittsburg, Pa.
National Valve & Mfg. Co., Pittsburg, Pa.
Nelson Valve Co. (Brass & Iron), Wyndmoor, Pa.
Ohio Brass Co. ("Ohio" Bronze), Mansfield, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Patterson-Allen Engineering Co. ("Patterson-Allen," "Bull Dog," Self Cleaning), 2 Rector, New York
**PITTSBURGH GAGE & SUPPLY CO.** ("Gaco" & "Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
**Pittsburg Valve & Fittings Co. ("Pittsburg"), Barberton, O.**
Powell, Wm. Co. ("U. S.," "Pilot," "Star," "White Star"), Cincinnati, O.
Pratt & Cady Co., Hartford, Conn.
**Queen City Brass & Iron Works ("Hesterberg," Brass & Iron Body), Cincinnati, O.**
Rensselaer Valve Co., Troy, N. Y.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
**Stephens, Roe Mfg. Co. (Scott's High Pressure, etc.), Detroit, Mich.**
**STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)**
**Thompson, J. & Co., Van Horn & Sophia, Phila., Pa.**
**United Brass Mfg. Co. (Brass), Cleveland, O.**
**Walch & Wyeth ("Erwood" Non-Return), 87 Lake, Chicago, Ill.**
Walworth Mfg. Co., 132 Federal, Boston. Mass.
Williams, D. T. Valve Co., Cincinnati, O.
**Wood, R. D. & Co. (For Water, Gas, Oil & Steam), 400 Chestnut, Phila., Pa.**
Woods Valve & Machine Co., Steubenville, O.

## 12682—Valves (Gate, for Water Mains)

American Foundry & Construction Co., Pittsburg, Pa.
Beaumont, Richard (Est. of). Kankakee, Ill.
Bourbon Copper & Brass Works, 618 E Front, Cincinnati, O.
Cayuta Mfg. Co., Sayre, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Coldwell-Wilcox Co., Newburgh, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Drummond, M. J. & Co., 182 B'way, New York
Eddy Valve Co., Waterford, N. Y.
Iowa Mfg. Co., Oskaloosa, Ia.
Kennedy Valve Mfg. Co., Elmira, N. Y.
**Ludlow Valve Mfg. Co., Troy, N. Y.**
McLean, Jno., 440 Water, New York.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
Nelson Valve Co., Wyndmoor, Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Rennselaer Valve Co., Troy, N. Y.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Smith, A. P. Mfg. Co., East Orange, N. J.
South Park Foundry & Machine Co., St. Paul, Minn.
Stephens, Roe Mfg. Co. ("Scott's" High Pressure, etc.), Detroit, Mich.
Walworth Mfg. Co., Boston, Mass.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Woods Valve & Machine Co., Steubenville, O.

## 12683—Valves (Geared)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12684—Valves (Generator)

Lavigne Mfg. Co. (For Gasoline Engines), Detroit, Mich.
**LUNKENHEIMER CO. ("Nonpareil"),** General offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Williams, D. T. Valve Co., Cincinnati, O.

## 12685—Valves (Globe & Angle)

Ajax Valve Co. ("Ajax," Elastic Metal Disc), 1115 W Lake, Chicago, Ill.
American Foundry & Construction Co., Pittsburg, Pa.
**American Foundry & Mfg. Co., St. Louis, Mo.**
American Valve Co., Coxsackie, N. Y.
Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Best Mfg. Co. ("Climax"), Pittsburg, Pa.
Buckeye Iron & Brass Works (With or Without Jenkins Disc), Dayton, O
Burlington Brass Works ("Kant Leek"), Burlington, Wis.
Campbell, J. B. Brass Works, Erie, Pa.
Coldwell-Wilcox Co., Newburgh, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Angle Only), Williamsport, Pa.
Detroit Brass Works, Detroit, Mich.
Detroit Lubricator Co., Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Edna Brass Mfg. Co., Cincinnati, O.
Everhart Brass Works (Heavy Brass), Scranton, Pa.
Eynon-Evans Mfg. Co. (Extra Heavy), 1519 Clearfield, Phila., Pa.
Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York
**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)
General Fire Extinguisher Co., Providence, R. I.
Glenn, C. C., 1906 N Halsted, Chicago, Ill.
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton Bldg., Pittsburg, Pa.
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Hancock Inspector Co., 85 Liberty, New York
Hayden & Derby Mfg. Co. (Extra Heavy), 85 Liberty, New York
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Homer Brass Works, Inc., 231 Race, Phila., Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Jenkins Bros. (Brass & Iron Body), 82 White, New York
Kelly & Jones Co. (Brass & Iron), Pittsburg, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Keystone Brass Co., Erie, Pa.
Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.
Konold, M. J. Co., Pittsburg, Pa.
Locke Regulator Co., Salem, Mass.
Loetzer Valve & Mfg. Co. ("Loetzer Dual"), Monroeton, Pa.
**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**
McDonald, A. Y. Mfg. Co., Dubuque, Ia.
McMann, Thos. R. Co. ("Russell"), 58 Gold, New York
McNab & Harlin Mfg. Co. (Brass & Iron Body), 56 John, New York, & Paterson, N. J.

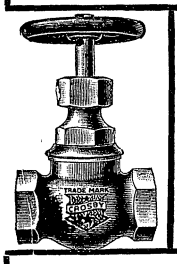

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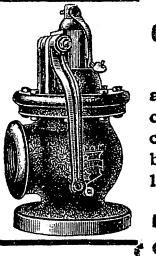
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**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Tube Co. (High Duty & Steam Metal, "Kewanee" Union), Pittsburg, Pa.
Nelson Valve Co., Wyndmoor, Pa.
New Bedford Boiler & Machine Co., New Bedford, Mass.
New York Valve Co. (Brass), 140 Liberty,
Ohio Brass Co., Mansfield, O. New York
Ohio Injector Co. ("O. I. Co."), Wadsworth, Ohio
Ohio Pump & Brass Co. (Gas), Columbus, O.
**OIL WELL SUPPLY CO. (Brass &** Iron), 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Osborne High Pressure Joint & Valve Co. ("Osborne-Nokut" Brass Protected Seat), The Rookery, Chicago, Ill.
**Parr Regrinding Valve Mfg. Co. (Regrinding),** Cleveland, O.
Patterson-Allen Engineering Co. ("Ajax"), 2 Rector, New York
Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.
Pioneer Brass Works, Indianapolis, Ind.
Pittsburg Valve & Fittings Co. ("Standard" Brass), Barberton, O.
**PITTSBURGH GAGE & SUPPLY CO.** ("Clean Seat"), 30th and Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Queen City Brass & Iron Works ("Hesterberg" Brass), Cincinnati, O.
Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
Stephens, Roe Mfg. Co. ("Scott," "J. D."), Detroit, Mich.
**STRONG, CARLISLE & HAMMOND** Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
United Brass Mfg. Co. (Brass), Cleveland, O.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Williams, D. T. Valve Co., Cincinnati, O.
Woods Valve & Machine Co., Steubenville, O.

## 12686—Valves (Globe & Angle & Cross)

**LUNKENHEIMER CO., General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 12687—Valves (Greenhouse)

Coldwell-Wilcox Co., Newburgh, N. Y.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Glenn, Fred E. ("Globe"), St. Charles, Ill.

## 12688—Valves (Gulland Tank)

Best Mfg. Co., Pittsburg, Pa.

## 12689—Valves (High Pressure)

Ajax Valve Co. ("Ajax," Elastic Metal Disc), 1115 W Lake, Chicago, Ill.
American Balance Valve Co. ("Jack Wilson" Balanced), Jersey Shore, Pa.
American Foundry & Const. Co. (Steam), Pittsburg, Pa.
Best Mfg. Co., Pittsburg, Pa.
Caskey Valve Co., 99 John, New York
Collins Mfg. Co., 612 Chestnut, Phila., Pa.
Eddy Valve Co., Waterford, N. Y.
Ford, Thos. P. Co. (Balance Ball Cock), 407 Broome, New York
Kennedy Valve Mfg. Co. (For Steam Service), Elmira, N. Y.
National Valve & Mfg. Co., Pittsburg, Pa.
Osborne High Pressure Joint & Valve Co. ("Osborne" Protected Seat), The Rookery, Chicago, Ill.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Stephens, Roe Mfg. Co., Detroit, Mich.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
Woods Valve & Machine Co. ("Non-Leather"), Steubenville, O.

## 12689a—Valves (High Pressure, Natural Gas)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12690—Valves (Hopper)

Cooper Sanitary Mfg. Co. (Self-Closing), 17th & Cuthbest, Phila, Pa.
Crampton-Farley Brass Co. ("Star"), Kansas City, Mo.
Edwardsville Brass Co., Edwardsville, Ill.
Savill, Thos. & Sons, 11th & Wood, Phila.,
Sawyer, W. H. & Son, Americus, Ga. Pa.

## 12691—Valves (Hose)

American Foundry & Mfg. Co., St. Louis, Mo.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass, (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Elkhart Brass Mfg. Co. (Chicago Pattern), Elkhart, Ind.
Hays Mfg. Co., Erie, Pa.
Kelly & Jones Co., Pittsburg, Pa.
Kennedy Valve Co., Elmira, N. Y.
**LUNKENHEIMER CO., General Offices &** Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Milwaukee Brass Mfg. Co. (For Fire Escape Stand Pipe), Milwaukee, Wis.
Nelson Valve Co., Wyndmoor, Pa.
Rensselaer Valve Co., Troy, N. Y.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
**SIMMONS, JOHN CO., 104 Centre,** New York (See adv. index, end of book)
Stephens, Roe Mfg. Co., Detroit, Mich.
Woods Valve & Machine Co., Steubenville, O.

## 12692—Valves (Hot & Cold Blast)

**AMSLER, WALTER O., Wabash** bldg, Pittsburg, Pa. (See adv. index, end of book)
Hartman Co., 1231 N Front, Phila., Pa.

## 12693—Valves (Hydraulic)

American Foundry & Construction Co., Pittsburg, Pa.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co. ("Climax"), Pittsburg, Pa.
Bordo, L. J. Co., Inc. (Stop, Three Way & Four Way), 12th & Thompson, Phila., Pa.
Buckeye Iron & Brass Wks., Dayton, O.
Burroughs Chas. Co., Newark, N. J.
Caskey Valve Co. (High Pressure), 99 John, New York
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
**CONSOLIDATED SAFETY VALVE** Co., 85 Liberty, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Davidson, M. T. ("Davidson," Three-Way Balanced), 43 Keap, Brooklyn, N. Y
Desper, H. A. Mfg. Co., Worcester, Mass.
Eastwood Wire Mfg. Co. ("Eastwood"), Belleville, N. J
Eddy Valve Co., Waterford, N. Y.
**ELMES, CHAS. F. ENGINEERING** Works, cor Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book
Engberg's Electrical & Mechanical Works (Electro-Hydraulic, for Stand Pipes, etc.), St Joseph, Mich.
Foster Engineering Co. (Reducing & Relief) 119 Monroe, Newark, N. J.
French Oil Mill Machinery Co., Piqua, O.
Homestead Valve Mfg. Co., Homestead, Pa.
Kelly & Jones Co. (Straightway, etc.), Pittsburg, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.
McNab & Harlin Mfg. Co., 56 John, New York
**MORGAN ENGINEERING CO., Alli-** ance, O. (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York (See adv. index, end of book)
**NATIONAL GAUGE CO. (Relief), 168** 8th, Brooklyn, N. Y. (See adv. index, end of book)
Nelson Valve Co., Wyndmoor. Pa.
**OIL WELL SUPPLY CO., 215 Water** Pittsburg, Pa. (See adv. index, end of book)
Osborne High Pressure Joint & Valve Co. ("Osborne" Protected Seat), The Rookery, Chicago, Ill.
**PITTSBURGH GAGE & SUPPLY CO.** ("Clean Seat"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Powell, Wm. Co., Cincinnati, O.
Rensselaer Mfg. Co., Troy, N. Y.
Robertson, Jno. & Co., 127 Water, Brooklyn, N. Y.
**SCHAEFFER & BUDENBERG MFG.** Co. (Check), 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Schutte & Koerting, 1251 N 12th, Phila., Pa.
Simplex Valve & Meter Co. ("Simplex" Regulating for Controlling the Elevation of Water in Reservoirs & Stand Pipes), 112 N Broad, Phila., Pa.
**WATSON-STILLMAN CO., 38 Church,** New York. (See adv. index, end of book)
Watson & McDaniel Co. ("Biggins," Hydraulic Stop Balance Rotating), 146 N 7th, Philadelphia, Pa.
Wood, R. D. & Co. (Operating Shern, etc.), 400 Chestnut, Phila., Pa.
Woods Valve & Machine Co. ("Non-Leather"), Steubenville, O.

## 12694—Valves (Hydraulic Operating)

Best Mfg. Co., Pittsburg, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See advfl. index & branch offices, end of book)
Logemann Bros. Co., Milwaukee, Wis.
Morgan Construction Co., Worcester, Mass.
Nelson Valve Co., Wyndmoor, Pa.
Woods Valve & Machine Co. ("Non-Leather"), Steubenville, O.

## 12695—Valves (Hydraulic Pulpit)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
**Wood, R. D. & Co., 400 Chestnut, Phila., Pa.**
Woods Valve & Machine Co. ("Non-Leather"), Steubenville, O.

## 12696—Valves (Indicator)

Bourbon Copper & Brass Works Co. (Open & Shut Indicator Post Valves), Cincinnati, O.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co. (Straightway), Pittsburg, Pa.
Kennedy Valve Mfg. Co. (For Fire, Gate & Indicator Post Valves), Elmira, N. Y.
Milwaukee Valve Co. ("M," Brass), Milwaukee, Wis.
Pittsburg Valve & Fittings Co., Barberton, O.
Rensselaer Valve Co., Troy, N. Y.
**Wood, R. D. & Co., 400 Chestnut, Phila., Pa.**

## 12696a—Valves (Inlet & Exhaust Automobile)

**DETROIT SCREW WORKS, 348** Franklin, Detroit, Mich. (See adv. index, end of book)

## 12697—Valves (Lavatory)

**American Fdry. & Mfg. Co., St. Louis, Mo.**
Hays Mfg. Co., Erie, Pa.
Haydenville Co., Haydenville, Mass.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Kelly & Jones Co. (Brass), Pittsburg, Pa.
Sanitas Mfg. Co., Boston, Mass.

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## 12698—Valves (Lead Lined)

Lead Lined Iron Pipe Co., Wakefield, Mass.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Schutte & Koerting Co. (Check & Stop), 1251 N 12th, Phila., Pa.

## 12699—Valves (Leather)

**DETROIT LEATHER SPECIALTY** Co. (Inc.), Detroit, Mich. (See adv. index, end of book)
Graton & Knight Mfg. Co., Worcester, Mass.
Houghton, E. F. & Co. ("Vim" Pump, etc.), 240 W Somerset, Phila., Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
Nott, W. S. Co., Minneapolis, Minn.
Page Belting Co., Concord, N. H.

## 12700— Valves (Lever)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Foster Engineering Co. (Balance), 119 Monroe, Newark, N. J.
**LUNKENHEIMER CO., ("Handy"),** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Nelson Valve Co., Wyndmoor, Pa.

## 12701— Valves (Lock)

Emory, P. P. Mfg. Co. (For Rag Engines), Springfield, Mass.
Whitcomb, Geo. O. Co. ("Whitcomb," for Air Compressors, etc.), Rochelle, Ill.

## 12702—Valves (Lock Shield)

Detroit Brass Works, Detroit, Mich.
**Glauber Brass Mfg. Co., Cleveland, O.**
Hays Mfg. Co., Erie, Pa.
Kelly & Jones Co., Pittsburg, Pa.
Marsh, Jas. P. & Co., 321 W Washington, Chicago, Ill.
**PITTSBURGH GAGE & SUPPLY CO.,** Pittsburgh, Pa. (See adv. index, end of book)
United Brass Mfg. Co. ("Corset," "United"), Cleveland, O.
Walworth Mfg. Co., Boston, Mass.

## 12703—Valves (Locomotive)

American Balance Valve Co. ("American" Balanced & "Jack Wilson" High Pressure Balanced), Jersey Shore, Pa.
American Steam Gauge & Valve Mfg. Co. (Pop, Plain & Muffled), Boston, Mass.
Ashton Valve Co., Boston, Mass.
Belfield, H. & Co. (Cylinder), 435 N Broad, Phila., Pa.
Best, W. N. & Son, 11 B'way, New York
Bordo, L. J. Co. ("B. O." Plug Blow-Off, also Blower), 12th & Thompson, Phila., Pa.
Cadman, A. W. Mfg. Co. (Blow-Off), Pittsburg, Pa.
Coal Muffler & Safety Valve Co., 26 S Charles, Baltimore, Md.
Consolidated Safety Valve Co., The ("Consolidated" Pop Safety; also with Muffler Attached), 85 Liberty, New York
Crane Co. (Est. 1855) (Pop Safety, etc.), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Hammett, H. G. ("Richardson & "Allen-Richardson" Balance Slide), Troy, N. Y.
Hobart-Allfree Co. ("Allfree" System of Steam Distribution), 84 Van Buren, Chicago, Ill.
Homestead Valve Mfg. Co. (Blow-Off), Homestead, Pa.
Konold, M. J. Co. (Blow-Off), Pittsburg, Pa.
Kunkle, E. B. & Co. Fort Wayne, Ind.
Lonergan, J. E. & Co. ("Glace" Triple-Seat Check; also Safety Valves), 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works:** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**LYTTON MFG. CO. ("Lytton" Blow-Off),** Hudson Terminal, New York. Works: Franklin, Va. (See adv. index & branch offices, end of book)
Ohio Brass Co., Mansfield, O.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
**WATSON-STILLMAN CO. (Throttle),** 38 Church, New York. (See adv. index, end of book)
Williams, D. T. Valve Co., Cincinnati, O.

## 12704—Valves (Lubricating)

Western Lubricating Valve Co. ("Western," Both Valve and Lubricator), Denver, Colo.

## 12705—Valves (Motor Operated)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12705a—Valves (Motor Tire)

Schrader's, A. Son (Inc.), 30 Rose, New York

## 12706—Valves (Motorman's)

**NATIONAL BRAKE & ELECTRIC** Co. ("National," for Electric Cars), Larkin Belleview pl, Milwaukee, Wis. (See adv. index & branch offices, end of book)

## 12707— Valves (Mud)

Golden-Anderson Valve Specialty Co. ("Golden"), Fulton bldg, Pittsburg, Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12708—Valves (Muffler)

**BARCO BRASS & JOINT CO. (Automobile),** 226 N Jefferson, Chicago, Ill. (See adv. index, end of book)
Coal Muffler & Safety Valve Co., 26 S Charles, Baltimore, Md.
Consolidated Safety Valve Co., The (Portable Muffler Pop Safety), 85 Liberty, New York
Lonergan, J. E. & Co., 211 Race, Phila., Pa.

## 12709—Valves (Natural Gas)

Farnan Brass Works, Cleveland, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Glauber Brass Mfg. Co., Cleveland, O.
Hays Mfg. Co., Erie, Pa.
Kelly & Jones Co., Pittsburg, Pa.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
United Brass Mfg. Co., Cleveland, O.

## 12710—Valves (Needle)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**McRAE & ROBERTS CO., 227 Campbell av,** Detroit, Mich. (See adv. index, end of book)

## 12711—Valves (Non-Return)

Garrett, W. D. & Co., 136 Liberty, New York
Golden-Anderson Valve Specialty Co., Fulton bldg, Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of obok)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
**Schutte & Koerting Co., 1251 N 12th, Phila., Pa.**
Stephens, Roe Mfg. Co., Detroit, Mich.

## 12712— Valves (Oil)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
**ROCKWELL FURNACE CO., 26 Cortlandt,** New York. (See adv. index, end of book)

## 12712a—Valves (Oil Burner Needle)

Osborne High Pressure Joint & Valve Co. ("Osborne"), The Rookery, Chicago, Ill.

## 12712b— Valves (Oiler)

Knox Mfg. Co. (Ford Drills), 704 Arch, Phila., Pa.

## 12713—Valves (Open-Hearth Furnace)

Blair Engineering Co., 6 Sherman, Chicago, Ill.

## 12714— Valves (Organ)

**Homer Brass Works, 231 Race, Phila., Pa.**

## 12715— Valves (Piston)

American Balance Valve Co. ("American" Semi-Plug), Jersey Shore, Pa.
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Baker Valve Co. ("Baker", Balanced), Minneapolis, Minn.
Cockburn Co. ("Stayman" Self-Expanding), Jersey City, N. J.
**TRETHEWEY, SAMUEL & CO.,** (Ltd.), 47th st, Pittsburg, Pa. (See adv. index, end of book)

## 12716— Valves (Plug)

American Foundry & Construction Co., Pittsburg, Pa.
**Cadman, A. W. Mfg. Co. (Split), Pittsburg, Pa.**
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg., Pittsburg, Pa.
Homestead Valve Mfg. Co., Homestead, Pa.
Konold, M. J. Co. (For Air), Pittsburg, Pa.
Loetzer Valve & Mfg. Co. (Steam, Gas, Air, Oil & Ammonia), Monroeton, Pa.
Robertson, Jas. Lead Co. (Plug & Seat), Baltimore, Md.
**SIMMONS, JOHN CO., 104 Centre,** New, York. (See adv. index, end of book)
Woods Valve & Machine Co., Steubenville, O.

## 12717—Valves (Pop Safety)

Acton, Jno., 118 John, Brooklyn, N. Y.
**American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.**
**Ashton Valve Co., 271 Franklin, Boston, Mass.**
Bridgman Bros. Co., 1426 Wash'n av, Phila., Pa.
Coal Muffler & Safety Valve Co., 26 S Charles, Baltimore, Md.
Consolidated Safety Valve Co., The ("Consolidated"), 85 Liberty, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Detroit Lubricator Co. ("Detroit", Low Pressure), Detroit, Mich.
Edna Brass Mfg. Co., Cincinnati, O.
**INDUSTRIAL INSTRUMENT CO.,** Foxboro, Mass. (See adv. index & branch offices, end of book)

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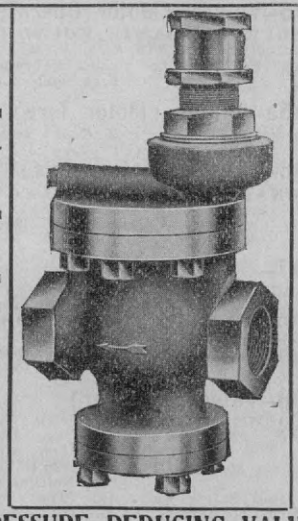
Kunkle, E. B. & Co. ("Kunkle" Lock-Up), Ft. Wayne, Ind.
Lonergan, J. E. & Co. ("Linde's" & U. S. Government, Marine & Stationery Boilers), 211 Race, Phila., Pa.
**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan"), Detroit, Mich.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Scott Valve Co., 231 Randolph, Chicago, Ill.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
Stephens, Roe Mfg. Co., Detroit, Mich.
Swift Lubricator Co., Elmira, N. Y.
U. S. Gauge Co., 67 Wall, New York
Walworth Mfg. Co., Boston, Mass.

## 12718—Valves (Power House)

Golden-Anderson Valve Specialty Co., Fulton bldg., Pittsburg, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book.)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12719—Valves (Pressure Reducing)

Acton, John (Waterworks, Heavy Duty & Household Service, etc.), 118 John, Brooklyn, N. Y.
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Atwood & Morrill ("XXth Century"), Salem, Mass., & 136 Liberty, New York
Best Mfg. Co., Pittsburg, Pa.
Consolidated Engineering Co. ("Van Auken"), 507 W Jackson boul, Chicago, Ill.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co. (Reducing, Steam, Air & Water), 422 Milwaukee av, Chicago, Ill.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Eastwood Wire Mfg. Co., Belleville, N. J.
Elliott Co. ("Elliott"), Pittsburg, Pa.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa.
Fisher Governor Co., Marshalltown, Ia.
Ford, Thos. P. Co. (Steam & Water), 407 Broome, New York
Foster Engineering Co. (For High & Low Pressure), 119 Monroe, Newark, N. J.
Garrett, W. D. & Co., 136 Liberty, New York
Golden-Anderson Valve Specialty Co. ("Anderson", For Steam, Water, etc.), Fulton ldg, Pittsburg, Pa.
Harlem Mfg. Co., 42 W 67th, New York
Johnson Service Co. (Steam, Water, Air & Gas), Milwaukee, Wis.
Kelly & Jones Co. (Vacuum, etc.), Pittsburg, Pa.
Kieley & Mueller, 34 W 13th, New York
Knapp Bros. Mfg. Co. ("Knapp's" Automatic), 2419 W 14th, Chicago, Ill.
Leslie Co. (Inc.). ("Leslie"), Lyndhurst N. J.
Locke Regulator Co. ("New Era" "Beats All"), Salem, Mass.
Lonergan, J. E. & Co. (Pressure), 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)


PRESSURE REDUCING VALVES

**Lytton M'f'g. Corp.**

SALES OFFICE,
1159 HUDSON TERMINAL,
NEW YORK, N. Y.

WORKS, FRANKLIN, VA.


**LYTTON MFG. CO. ("Lytton" for** High & Low Pressure), Hudson Terminal, New York. Works: Franklin, Va. (See adv. index & branch offices, end of book)
Mason Regulator Co., Boston, Mass.
Monash-Younker Co. (Steam), 1407 W Jackson boul, Chicago, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
New Bedford Boiler & Machine Co., New Bedford, Mass
Ohio Brass Co. ("Ohio" Regulating for Steam), Mansfield, O.
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th and A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Pittsburg Valve & Fittings Co., Barberton, O.
Ross Valve Co., Troy, N. Y.
Squires, C. E. ("Squires"), Cleveland, O.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Steam Appliance Co. ("Root"), Milwaukee, Wis.
Stephens-Roe Mfg. Co., Detroit, Mich.
**STRONG, CARLISLE & HAMMOND** Co. ("Strong"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
Waters Governor Co., Everett, Mass.
Watson & McDaniel Co. ("Watson," also "Watson" Spring Reducing, Low Pressure, Water & Atmospheric Reducing), 146 N 7th, Phila., Pa.

## 12720—Valves (Pump)

(See also Valves, Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
**AMERICAN VULCANIZED FIBRE** Co., Wilmington, Del. (See adv. index, end of book)
**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)
Athol Pump Co., Athol, Mass.
Berger Bros. Co., 231 Arch, Phila., Pa.
**BOSTON BELTING CO. (Rubber), 260** Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index, end of book)
Brandt, Randolph, 70 Cortlandt, New York
Buckeye Iron & Brass Works, Dayton, O.
Combination Rubber & Belting Co. (Rubber), Bloomfield, N. J.
**CONTINENTAL FIBRE CO. (Vulcanized Fibre),** Newark Centre, Del. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
Cortay Packing Co. ("New Idea"), Trenton, N. J.
**CROSBY STEAM GAGE & VALVE** Co. ("Branden," Rubber), 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Hard Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO.** (Fibre), Elsmere, Del. (See adv. index, end of book)
Dixie Packing Co. ("Dixie"), Atlanta, Ga.
Evans, John E., Nutley, N. J.
Excelsior Valve Co., 108 Fulton, New York
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Jenkins Bros., 82 White, New York
**JOHNS-PRATT CO., THE ("Vulcabeston").** Hartford, Conn.
Lake Erie Boiler Compound Co. ("Ideal"), Buffalo, N. Y.
Mulconroy Co. (Rubber), 722 Arch, Phila., Pa.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
National Fibre & Insulation Co. (Fibre), Yorklyn, Del.
O'Crowley, J. J. ("O'Crowley" Patent Detachable), 45 Hudson, Jersey City, N. J.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO.** ("Keystone," "Columbia," "Century," "Pennsylvania," Hard & Soft Rubber), Jeannette, Pa. (See adv. index & branch offices, end of book)
Power Specialty Co. (Armored), 111 B'way, New York
Sayen, Osgood (Rubber), Arcade bldg, Phila., Pa.
Schacht Rubber Mfg. Co. (Rubber), Huntington, Ind.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's I. O. P." Oil Proof Pump Valves), 48 Franklin, New York. (See adv. index, end of book)
Whittlesey's, H. E. Sons (Leather), Corry, Pa.
**WILMINGTON FIBRE SPECIALTY** Co. (Hard Fibre), Wilmington. Del. (See adv. index & branch offices, end of book)

## 12721—Valves (Quick-Opening)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Kelly & Jones Co. ("Jewel" Radiator & Straightway), Pittsburg, Pa.
Osborne High Pressure Joint & Valve Co. ("Osborne" Screw Lock), The Rookery, Chicago, Ill.
**PITTSBURGH VALVE FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
**STRONG, CARLISLE & HAMMOND** ("Strong"). 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)


**If You Are In Doubt**

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

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## 12722—Valves (Radiator)

Albany Steam Trap Co., Albany, N. Y.
American Valve Co., Coxsackie, N. Y.
American Radiator Co. ("Norwall" & "Sylphon", "Ideal Unique"), 282 Michigan av, Chicago, Ill.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Bashlin Co., Warren, Pa.
Belfield, H. & Co. (Iron & Brass), 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Buckeye Iron & Brass Works (With or Without "Jenkins Disc"), Dayton, O.
Capitol Brass Works ("Jenkins," "Disc," Male & Female), Detroit, Mich
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end
Crane Valve Co., Bridgeport, Conn. of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Davis, Louis N. Co. ("Davis" Graduated), West Chester, Pa.
Detroit Brass Works, Detroit, Mich.
Detroit Lubricator Co. (Quick Opening & Interlocking Steam "Detroit"), Detroit, Mich.
Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.
Exeter Machine Works, Exeter, N. H.
Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York
Frankfort Brass Mfg. Co., Frankfort, Ind.
Fulton Co. ("Sylphon Thermometer"), Knoxville, Tenn.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Gurney Heater Mfg. Co., 188 Franklin, Boston,
Haydenville Co., Haydenville, Mass. Mass.
Haynes-Thompson Co. ("Precise"), 1705 Chestnut, Phila., Pa.
Hoffman, B. Mfg. Co. ("Judge"), Milwaukee,
Jarecki Mfg. Co., Erie & Pittsburg, Pa. Wis.
Jenkins Bros., 82 White, New York
Kelly & Jones Co. ("Universal"), Pittsburg, Pa.
Kennedy Valve Mfg. Co. (With Wood Wheels, etc.), Elmira, N. Y.
Lavigne Mfg. Co. (Packless Steam), Detroit,
Locke Regulator Co., Salem, Mass. Mich.
McNab & Harlin Mfg. Co., 56 John, New York
Marsh Valve Co. (Quick Opening Double Seat), Dunkirk, N. Y.
Milwaukee Valve Co. ("M"), Milwaukee, Wis.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
National Steam Specialty Co., 16 S Clinton, Chicago, Ill.
National Tube Co., Pittsburg, Pa.
Ohio Brass Co. ("Ohio" Wood Wheel), Mansfield, O.
Osborne High Pressure Joint & Valve Co. ("Osborne" Metal Seats), The Rookery, Chicago, Ill.
Penn Engineering Co., 312 Cherry, Phila., Pa.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Powell, Wm. Co. ("Union Disc"), Cincinnati, O.
Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.
Rensselaer Mfg. Co., Troy, N. Y.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
**STEIN, HENRY, 46 Cliff, New York.** (See adv. index, end of book)
Stephens, Roe Mfg. Co. ("Scott" "Chicago"), Detroit, Mich.
Syracuse Faucet & Valve Co., Syracuse, N. Y.
Thermograde Valve Co. (Heat Regulating), 247 Atlantic av, Boston, Mass.
Utica Steam Gauge Co. ("Pedal" "Woods"), Frankfort, N. Y.
Walworth Mfg. Co., Boston, Mass.
Williams, D. T. Valve Co., Cincinnati, O.

## 12723—Valves (Radiator, Automatic Air)

(See Valves, Air)

## 12724—Valves (Radiator, Back-Offset)

Ohio Brass Co. ("Ohio" Wood Wheel), Mansfield, O.

## 12725—Valves (Radiator, Corner)

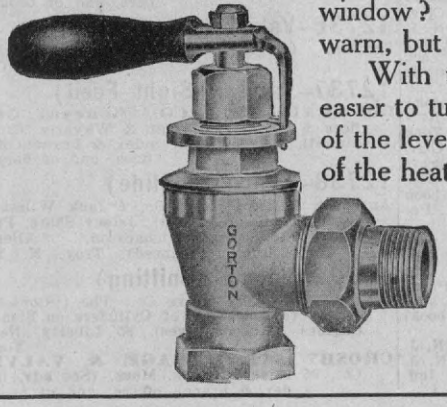
Bashlin Co., Warren, Pa.
Buckeye Iron & Brass Works (With or Without "Jenkins Disc"), Dayton, O.
Capitol Brass Works ("Jenkins Disc," Male & Female), Detroit, Mich.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Kelly & Jones Co. (Offset, Brass), Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
Milwaukee Valve Co. ("M"), Milwaukee, Wis.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
National Tube Co., Pittsburg, Pa.
Ohio Brass Co. ("Ohio" Wood Wheel), Mansfield, O.
Osborne High Pressure Joint & Valve Co. ("Osborne"), The Rookery, Chicago, Ill.
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron W'ks, Cincinnati, O.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Stephens, Roe Mfg. Co. ("Scott"), Detroit, Mich.
Thermograde Valve Co. (Heat Regulating), 247 Atlantic av, Boston, Mass.

## 12726—Valves (Radiator, Hot Water)

American Radiator Co. ("Ideal Unique"), 282 Michigan av, Chicago, Ill.
Buckeye Iron & Brass Works (With or Without "Jenkins Disc"), Dayton, O.
Capitol Brass Works (Male & Female), Detroit, Mich.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end
Detroit Brass Works, Detroit, Mich. of book)
**Detroit Lubricator Co. ("Detroit"), Detroit, Mich.**
Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.
Exeter Machine Co., Exeter, N. H.
Frankfort Brass Mfg. Co., Frankfort, Ind.
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)
Honeywell Heating Specialty Co., Wabash, Ind.
Kelly & Jones Co. ("Jewel", Quick Opening with Union), Pittsburg, Pa.
Lavigne Mfg. Co., Detroit, Mich.
**LUNKENHEIMER CO., General Offices &** Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Milwaukee Valve Co. ("M"), Milwaukee, Wis.
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)
National Tube Co., Pittsburg, Pa.
Ohio Brass Co. ("Ohio" Wood), Mansfield, O.
Penn Engineering Co., 312 Cherry, Phila., Pa.
Queen City Brass & Iron Works, Cincinnati, O.
**SIMMONS, JOHN CO., 104 Centre,** New York (See adv. index, end of book)
**STEIN, HENRY, 48 Cliff, New York.** (See adv. index, end of book)
Stephens, Ro Mfg. Co. ("Chicago" Quick Opening), Detroit, Mich.
Syracuse Faucet & Valve Co., Syracuse, N. Y.
Thermograde Valve Co. (Heat Regulating), 247 Atlantic av, Boston, Mass.


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Did you ever stop to consider the cost of wasted heat—the heat that goes out through the open window? It is easy to open the window when the room becomes too warm, but it costs money—you pay for it in your coal bills.




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## 12727—Valves (Radiator, Steam & Hot Water)

American Radiator Co. ("Ideal Unique", "Norwall" & "Sylphon"), 282 Michigan av, Chicago, Ill.
**GORTON & LIDGERWOOD CO., 96** Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)

## 12728—Valves (Regrinding)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Kelly & Jones Co. ("Excelsior", Brass), Pittsburg, Pa.
**LUNKENHEIMER CO. General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
National Tube Co. (Angle, Globe, Check & Gate), Pittsburg, Pa.
Nelson Valve Co., Wyndmoor, Pa.
Parr Regrinding Valve Mfg. Co., Cleveland, O.
Pittsburg Valve & Fittings Co., Barberton, O.
Queen City Brass & Iron Works, Cincinnati, O.
Williams, D. T. Valve Co., Cincinnati, O.

## Valves (Regulating)

(See Governors, Pump)

## 12729— Valves (Relief)

**Acton, John** (Atmospheric Exhaust, also Sensitive), 118 John, Brooklyn, N. Y.
All Metal Valve Co. (Automatic), 136 Liberty, New York
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
American Valve & Meter Co., Cincinnati, O.
Atwood & Morrill ("XXth Century"), Salem, Mass., & 136 Liberty, New York
Best Mfg. Co., Pittsburg, Pa.
Consolidated Safety Valve Co. ("Blackall" for Locomotives), 85 Liberty, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co. (Automatic), Bridgeport, Conn.
**Davidson, M. T.** ("Davidson" Automatic Exhaust for Condensing Engines), 43 Keap, Brooklyn, N. Y.
Davis, Geo. M. Regulating Co. (Open Air), 422 Milwaukee av, Chicago, Ill.
Foster Engineering Co. (Air, Water, Steam & Atmospheric), 119 Monroe, Newark, N. J.
Garrett, W. D. & Co. (Atmospheric), 136 Liberty, New York
Golden-Anderson Valve Specialty Co. ("Anderson", Water Pressure, etc.), Pittsburg, Pa.
Hammett, H. G. ("Richardson," Also Combined Pressure & Vacuum Relief), Troy, New York
Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.
Konold, M. J. Co. (Automatic), Pittsburg, Pa.
Locke Regulator Co. (Or Vacuum Breaker), Salem, Mass.
**LUNKENHEIMER CO., General Offices &** Works, Cincinnati, O. (See adv. index & branch offices, end of book)
Mowell, Augustus ("Mowell" Automatic), Paterson, N. J.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Osborne High Pressure Joint & Valve Co. ("Osborne" Re-Grinding for Ammonia, Carbon-Dioxide, etc.), The Rookery, Chicago, Ill.
**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
**Ross Valve Mfg. Co, (For Water Mains), Troy, N. Y.**
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
**Sturgess Engineering Dept. of Ludlow Valve Mfg. Co. ("Sturgess" Automatic), Troy, N. Y.**
**Wood, R. D. & Co., 400 Chestnut, Phila., Pa.**

## 12730—Valves (Renewable Seat)

Albany Steam Trap Co., Albany, N. Y.
Bashlin Co., Warren, Pa.
**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co. (Also Disc), Belleville, N. J.
**LUNKENHEIMER CO. ("Renewo"** & "Ferrenewo"), General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

## 12731—Valves (Reversing)

**AMSLER, WALTER O. ("Amsler"),** Wabash bldg, Pittsburg, Pa. (See adv. index, end of book)
Gas Machinery Co. (Gas), Cleveland, O.
**Mesta Machine Co., Pittsburg, Pa.**
Morgan Construction Co. ("Dylie", Air or Gas), Worcester, Mass.
**Sterrit-Thomas Foundry Co. ("Sieman"), 32nd** & Smallman, Pittsburg, Pa.
Wellman-Seaver-Morgan Co. ("Forter" Water Sealed), Cleveland, O.

## 12731a—Valves (Rotary Gate)

**SIMMONS, JOHN CO. ("Rothschild"),** 104-110 Centre, New York. (See adv. index, end of book)

## 12732—Valves (Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devon-**shire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Canfield, H. O. Co., Bridgeport, Conn.
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
**CROSBY STEAM GAGE & VALVE** Co. ("Branden"), 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Diamond Rubber Co., Akron, Ohio
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J.
Excelsior Valve Co. ("Excelsior"), 106 Fulton, New York
Federal Rubber Co., Cudahy, Wis.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Jenkins Bros., 82 White, New York
**JOHNS, H. W.-MANVILLE CO. ("J-**M"), 100 William, New York. (See adv. index & branch offices, end of book)
Johns-Pratt Co., Hartford, Conn.
Manhattan Rubber Mfg. Co., Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York.
Morgan & Wright (Inc.) (Marine, Pump, etc.), Detroit, Mich.
**MYERS, F. E. & BRO., Ashland, O.** (See adv. index & branch offices, end of book)
**N. J. Car Spring & Rubber Co., Jersey City, N. J.**
New York Belting & Packing Co. (Ltd.) (Pump & Ball), 91 Chambers, New York
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New York
**PENNSYLVANIA RUBBER CO.,** ("Keystone," "Columbia," "Century," "Pennsylvania," etc.), Jeannette, Pa. (See adv. index & branch offices, end of book
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Sayen Rubber Co., Hamilton Sq, N. J.
Springfield Tire & Rubber Co., Springfield, O.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's" I. O. P. Oil Proof Pump Valves), 48 Franklin, New York. (See adv. index, end of book)
Thermoid Rubber Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Western Rubber Works (Pump), Goshen, Ind.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 12733—Valves (Sacking)

Sackett, A. J., Baltimore, Md.

## 12734—Valves (Safety)

Am. Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Andrews Heating Co. ("Andrews" Regulating), Minneapolis, Minn.
Ashton Valve Co., Boston, Mass.
Belfield, H. & Co. (Brass or Iron), 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Canton Brass & Machine Co., Canton, O.
Coale Muffler & Safety Valve Co., Baltimore, Md.
Crane Co. (Est. 1855), 1214 S Canal, Chicago Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co. (Cross Safety), Belleville, N. J.
Foster Engineering Co. (Automatic), 119 Monroe, Newark, N. J.
Haydenville Co. (Boiler), Haydenville, Mass.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Jenkins Bros., 82 White, New York
Kelly & Jones Co., Pittsburg, Pa.
Kunkle, E. B. & Co., Fort Wayne, Ind.
Locke Regulator Co., Salem, Mass.
Lonergan, J. E. & Co. (Spring Loaded), 211 Race, Philadelphia, Pa.
**LUNKENHEIMER CO. General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co. (Brass Iron Body), 56 John, New York
Michigan Lubricator Co., Detroit, Mich.
Milwaukee Valve Co. ("M", Brass), Milwaukee, Wis.
**NATIONAL GAUGE CO. ("National"),** 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Tube Co., Pittsburg, Pa.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.
Safety Cylinder Valve Co., Mansfield, O.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Simplex Mfg. Co. ("Simplex" Range & Boiler), 90 West, New York
Stephens, Roe Mfg. Co. ("Orme," "Scott"), Detroit, Mich.
Springfield Brass Co., Springfield, O.
Walworth Mfg. Co., Boston, Mass.

## 12735—Valves (Screw Down Check)

**LUNKENHEIMER CO. General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12736—Valves (Shower Bath)

Sanitary Co. ("Paragon" Anti-Scalding), Cleveland, O.

## 12737—Valves (Sight Feed)

**LUNKENHEIMER CO. General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 12738— Valves (Slide)

American Balance Valve Co. ("Jack Wilson" High Pressure Balanced), Jersey Shore, Pa.
Hammett, H. G. ("Richardson," "Allen-Richardson," Balanced), Troy, N. Y.

## 12739—Valves (Snifting)

Consolidated Safety Valve Co., The ("Consolidated" for the Ends of Cylinders on Steam Engines & Locomotives), 85 Liberty, New York
**CROSBY STEAM GAGE & VALVE** Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

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## 12740—Valves (Solenoid Operated)

**CUTLER-HAMMOND MFG. CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

## 12741—Valves (Special Designs)

**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12742—Valves (Sprinkler Service)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)

## 12743—Valves (Stand Pipe)

Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton Bldg., Pittsburg, Pa.

Simplex Valve & Meter Co. (Controlling Valves for Stand Pipes or Reservoirs), 112 N Broad, Phila., Pa.

## 12744—Valves (Steam Air)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)

Kelly & Jones Co., Pittsburg, Pa.

**LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

Marsh, J. P. & Co. 321 W Wash'n, Chicago, Ill.

**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

Nelson Valve Co., Wyndmoor, Pa.

Stephens, Roe Mfg. Co., Detroit, Mich.

## 12745—Valves (Steam Feed)

**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

Lufkin Foundry & Machine Co. ("Trout's"), Lufkin, Tex.

## 12746— Valves (Steel)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)

Crane Co. (Est. 1855), 1214 S Canal, Chicago Ill. (See adv. index & branch offices, end

Nelson Valve Co., Wyndmoor, Pa. of book)

## 12747— Valves (Stop)

Acton, John (Safety). 118 John, Brooklyn, N. Y.

**Albany Steam Trap Co., Albany, N. Y.**

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Bordo, L. J. Co. (Inc.) ("Bordo", Locomotive), 12th & Thompson, Phila., Pa.

Bourbon Copper & Brass Works, Cincinnati, O.

Central Brass Mfg. Co. (Compression Stop & Waste), Cleveland, O.

Coldwell-Wilcox Co., Newburgh, N. Y.

Coffin Valve Co., Neponset, Boston, Mass.

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Davis, G. M. Regulator Co. (Auto), 422 Milwaukee av, Chicago, Ill.

Eddy Valve Co., Waterford, N. Y.

Foster Engineering Co. (Automatic Non-Return, etc.), 119 Monroe, Newark, N. J.

French Oil Mill Machinery Co., Piqua, O.

**GARDNER GOVERNOR CO., Quincy,** Ill. (See adv. index & branch offices, end of book)

Golden-Anderson Valve Specialty Co. (Automatic), Fulton Bldg., Pittsburg, Pa.

Hoffmann, B. Mfg. Co., Milwaukee, Wis.

Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Ludlow Valve Mfg. Co., Troy, N. Y.

**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

New Bedford Boiler & Machine Co. (Also Automatic Stop), New Bedford, Mass.

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Pratt & Cady Co., Hartford, Conn.

Rensselaer Valve Co., Troy, N. Y.

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)

Stephens, Roe Mfg. Co., Detroit, Mich.

Thompson, J. & Co., c Van Horn & Sophia, Philadelphia, Pa.

Walworth Mfg. Co. (Automatic), Boston, Mass.

Whitcomb, Geo. D. Co. ("Whitcomb," For Copper & Other Mines), Rochelle, Ill.

Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Woods Valve & Machine Co., Steubenville, O.

## 12748—Valves (Superheated Steam)

**CHAPMAN VALVE MFG. CO., Indian** Orchard, Mass. (See adv. index & branch offices, end of book)

Osborne High Pressure Joint & Valve Co. ("Osborne"), The Rookery, Chicago, Ill.

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A V Ry, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12749—Valves (Syphon)

**American Pin Co., Waterbury, Conn.**

**Frost Mfg. Co. (Brass), Kenosha, Wis.**

Lipp, Louis Co. ("Boss" Double), Cincinnati, O.

## 12750— Valves (Tank)

American Valve & Meter Co., Cincinnati, O.

Boston Brass Co., 36 Oliver, Boston, Mass.

Crane Co. (Est. 1855) (Float), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Edwardsville Brass Co., Edwardsville, Ill.

Exeter Brass Works, Exeter, N. H.

**FAIRBANKS, MORSE & CO. (Railroad, Flush & Float), 481 Wabash av,** Chicago, Ill. (See adv. index & branch offices, end of book)

Ford, Thomas P. Co. ("Ford" High Pressure), 407 Broome, New York

Foster Engineering Co. (Steam & Water), 119 Monroe, Newark, N. J.

Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg, Pittsburg, Pa.

Nelson Valve Co., Wyndmoor, Pa.

**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)

Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.

Trenton Brass & Machine Co., Trenton, N. J.

Waters Governor Co., Everett, Mass.

## 12751—Valves (Tanner Operating)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12752—Valves (Thermostat)

National Steam Specialty Co. ("National"), 14 S Clinton, Chicago, Ill.

Pittsburg Brass Mfg. Co., Pittsburg, Pa.

Rolf-Martin Co. ("Romarco"), Fort Wayne, Ind.

Standard Heating & Radiator Co., Pittsburg, Pa.

## 12753—Valves (Throttle)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.

Detroit Lubricator Co. ("Detroit Pendry"), Detroit, Mich.

Eastward Wire Mfg. Co., Belleville, N. J.

Glenn, C. C., 1906 N Halsted, Chicago, Ill.

Hoffmann, B. Mfg. Co., Milwaukee, Wis.

Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Ide, A. L. & Sons ("Ideal"), Springfield, Ill.

Imperial Iron Works ("Imperial", for Hoisting Engines), Duluth, Minn.

Kelly & Jones Co., Pittsburg, Pa.

**LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)

Jarecki Mfg. Co., Erie & Pittsburg, Pa.

Knox Mfg. Co. (For Drills), 704 Arch, Phila, Pa.

McNab & Harlin Mfg. Co. (Brass & Iron Body), 56 John, New York

**MEAD-MORRISON MFG. CO. (Straightway & Balance),** Cambridge, Boston, Mass. (See adv. index & branch offices, end of book)

Mesta Machine Co., Pittsburg, Pa.

Michigan Lubricator Co. ("Michigan" Quick Opening), Detroit, Mich.

**MONARCH VALVE & MFG. CO.,** Springfield, Mass. (See adv. index & branch offices, end of book)

New Bedford Boiler & Machine Co., New Bedford, Mass.

**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

**PITTSBURGH VALVE, FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Powell, Wm. Co. ("Ready", "Titan"), Cincinnati, O.

Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)

Stephens, Roe Mfg. Co. ("Goldsmith"), Detroit, Mich.

**WATSON-STILLMAN CO. (Locomotive),** 38 Church, New York. (See adv. index, end of book)

Woods Valve & Machine Co., Steubenville, O.

## 12753a— Valves (Tire)

Schrader's, A. Son (Inc.) ("Schrader" for Bicycles, Automobiles, etc.), 30 Rose, New York

## 12754—Valves (Transfer)

**PITTSBURGH VALVE FOUNDRY &** Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

## 12755—Valves (Tubular Well)

**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)

Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end

Mark Mfg. Co., Evanston, Ill. of book)

National Tube Co., Pittsburg, Pa.

**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)

## 12756—Valves (Tuyere)

Best Mfg. Co., Pittsburg, Pa.

**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av. Pittsburgh, Pa. (See adv. index, end of book)

Woods Valve & Machine Co., Steubenville, O.

## 12757—Valves (Underwriters' Water Relief)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

## 12758—Valves (Universal)

Schrader's, A. Son, Inc. ("Schrader"), 30 Rose, New York

## 12759—Valves (Unloading)

Jarecki Mfg. Co., Erie, Pa.

## 12760—Valves (Vacuum, Automatic Air)

All Metal Valve Co., 136 Liberty, New York

Atwood & Morrill ("XX," "Century"), Salem, Mass, & 136 Liberty, N. Y.

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Bridgman Bros. Co. ("Bridgman" D for Vacuum Heating), 1426 Wash'n av, Phila., Pa.

Consolidated Engineering Co. ("Van Auken"), 507 W Jackson blvd, Chicago, Ill.

Klipfel Mfg. Co. ("K. & T."), 214 N Carpenter, Chicago, Ill.

Loetzer Valve Mfg. Co. (For Water Mains), Monroeton, Pa.

Morgan Vacuum Valve Co., Rochester, N. Y.

National Steam Specialty Co. ("National"), 14 S Clinton, Chicago, Ill.

Simonds Heating & Specialty Co. ("Simonds") Grand Rapids, Mich.

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## 12760a—Valves (Vault)

Meerhoff, Herman H. (For Outdoor Closets with Sewer Connections), Richmond, Ind.

## 12761—Valves (Vulcabeston)

**JOHNS-PRATT CO., THE, Hartford, Conn.**

## 12762—Valves (Water Relief)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Consolidate Safety Valve Co.. The ("Consolidated" for Fire Pumps, Pumping Stations & Hydraulic Elevators, etc.), 85 Liberty, New York
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co. (Also Semi-Balanced Seated), 422 Milwaukee av, Chicago, Ill.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Fairbanks Co. ("Pratt-Cady"), 416 Broome, New York
Kunkle, E. B. & Co., Fort Wayne, Ind.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
Stephens, Roe Mfg. Co. ("Scot"), 1072 McKinley av, Detroit, Mich.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Watson & McDaniel Co., 144 N 7th, Phila., Pa.

## 12763—Valves (Water Sealed)

**Wellman-Seaver-Morgan Co. ("Forter"), Cleveland, O.**

## 12764— Valves (Whistle)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
**INDUSTRIAL INSTRUMENT CO.** (Electric), Foxboro. Mass. (See adv. index & branch offices, end of book)
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
**NASON MFG. CO., 71 Fulton, New York.** (See adv. index, end of book)
**NATIONAL GAUGE CO., 168 8th,** Brooklyn, N. Y. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron Works, Cincinnati, O.
**SIMMONS, JOHN CO., 104 Centre,** New York. (See adv. index, end of book)
Star Brass Mfg. Co., Boston, Mass.
Williams, D. T. Valve Co., Cincinnati, O.

## 12765—Valves & Bands (Water Pipe Tapping)

**UNION WATER METER CO., Worcester, Mass.** (See adv. index, end of book)

## Vanadium

(See Ferro, Vanadium)

## 12766—Vanadium-Copper

**LEAVITT, C. W. & CO., 34 Church,** New York. (See adv. index, end of book)

## 12767— Vanners (Frue)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
Chalmers & Williams, Chicago Heights, Ill.
Hallidie Company (Iron Frame), Spokane, Wash.

## 12768— Vans (Moving)

Streich, A. & Bro. Co., Oshkosh, Wis.

## 12769—Variable Speed Transmission

(See also Gears, Reduction, for Motors)

**EVANS FRICTION CONE CO.** ("Evans"), Newton Center, Mass. (See adv. index, end of book)
James, D. & O. Mfg. Co. (Speed Reducing Gears), 1120 W Monroe, Chicago, Ill.
Moore & White Co., 15th & Lehigh av., Phila., Pa.
Reeves Pulley Co. ("Reeves" System), Columbus, Ind.

## 12770— Variators

American District Steam Co. (Single & Double Expansion), North Tonawanda, N. Y.

## 12771—Varnish (Armature & Field Coil)

(See Varnishes, Insulating)

## 12772— Varnish Cloth

American Mica Co., Newton Lower Falls, Mass.
Imperial Varnish Works, Newark, N. J.

## 12773— Varnish Gums

Anderson, Geo. & Co. (East India Gums), 100 William, New York
Bauer, Philip Co. (Damar Gum), 68 Broad, New York
Gillespie, L. C. & Sons (Importers), 8 Fletcher, New York
Gravenhorst & Co., 90 Wall, New York
Klipstein, A. & Co. (Also Varnish Colors), 82 Beaver, New York
Paterson, Boardman & Co., 10 Bridge, New York
Peabody, Henry W. & Co., 17 State, New York
Scheel, Wm. H. (Importer), 159 Maiden la, New York
Winterbourne, S. & Co., 94 Pine, New York

## 12774— Varnish Mfrs.

### CALIFORNIA.

ALAMEDA—Worden-Mecker Varnish Co.
OAKLAND—Worden-Meeker Varnish Co.
SAN FRANCISCO—Bass-Hueter Paint Co.
New Era Pain & Varnish Co.
Tamm & Nolan Co., 151 Potrero av
Yates & Co., 762 Folsom

### COLORADO.

DENVER—McMurtry Mfg. Co.

### CONNECTICUT.

BRIDGEPORT—Crockett, D. B. Co.
Parrott Varnish Co.
MIDDLETOWN—Smith, J. O. Mfg. Co.
NEW MILFORD—Bridgeport Wood Finishing Co.
NEW HAVEN—Booth & Law Varnish Co.
STAMFORD—Celluloid Zapon Co. (Richards & Co., Prop.)

### DELAWARE.

WILMINGTON—Bradford, James Co., 6 E 3d

### ILLINOIS.

CHICAGO — American Varnish Co. (Railway Carriage & Cabinet), 1140 N Branch
Armstrong Paint & Varnish Works, 2522 S Paulina
Atlantic Drier & Varnish Co., 4040 Evanston av
Bereda Mfg. Co., 317 W Michigan
Chicago Varnish Co., 2090 Elston av
Chicago Wood Finishing Co., 1216 Elston av
Cleveland Varnish Co., 214 S Canal
Crown Varnish & Enamel Co., 117 Wash'n
Day, James B. & Co., 20 E Illinois
Egyptian Laquer Co., 225 S Clinton
Elliott Varnish Co. ("Roof Leak"), 711 S
Elmendorf Varnish Co., 841 Larrabee 45th
Franche, C. E. & Co., 440 Orleans
Glidden Varnish Co., 718 W Wash'n
Goldschmidt, Chas., 17 W Illinois
Grace Varnish Co., 1014 Larrabee
Graves, N. Z. & Co., 346 N Ada
Lion Varnish & Shellac Works, 3560 Vinc av
Martin, Senour Co., 2520 Quarry
Moller & Schumann Co., 52 W Washington
Murphy Varnish Co., 45 W 22nd
Nikolas, G. J. & Co., 1227 W Van Buren
Nubian Paint & Varnish Co., 1856 N 51st av
Patterson-Sargent Co. ("Nisoron"), 2026 Lumber
Rogers-Pyatt Shellac Co., 124 W Kinzie
Standard Varnish Works (Railroad, Marine, House, etc.), 2620 Armour av.
Stewart, Mowry Co., 3218 Shields av
Sullivan Varnish Co., 410 Hart
Thurston, F. W. & Co., 1832 Clark
Tousey Varnish Co., 193 Michigan av
Twin City Varnish Co., 135 Lake
Unkefer. Geo. R.. Co., 91 Dearborn
Valentine & Co., 279 Dearborn
Vilas Bros., 227 5th av
Washburn, Thos. F., 2213 Lister av
Watson, Geo. E. Co., 108 Lake
Wheeler-Clough Co., 246 E Illinois
Zion Varnish Co., 1030 W Div
ROCKFORD—Rockford Varnish Co.
SPRINGFIELD—Surrey Varnish Co.

### INDIANA.

EVANSVILLE—Indiana Color & Varnish Co.
INDIANAPOLIS—Indianapolis Varnish Co.
Lilly Varnish Co.
SOUTH BEND—O'Brien Varnish Co.
VALPARAISO—Parker, Chas. H. Co.

### KENTUCKY.

LOUISVILLE—Louisville Varnish Co.

### LOUISIANA.

NEW ORLEANS—Union Varnish Co. (A. Riggs & Bro., Props.)

### MAINE.

PORTLAND—Fuller, August P., Co.

### MARYLAND.

BALTIMORE—Chesapeake Oil Co.
Davis, H. B. Co., Keyser bldg
Macneal, Jas. B. & Co., Warner & Wooster
Popplein, G. & N., Jr., 220 North

### MASSACHUSETTS.

BOSTON—Babcock, J. & Co., 86 Western av,
Babcock Varnish Co., 60 Pearl Alls.
Burbank & Ryder Co., 62 Alford, Chsn.
Farrington, C. E., 177 High
**GILMAN, CHAS. H., 103 Merrimac**
King, E. & F. & Co., 171 Milk
Massachusetts Chemical Co., 185 Summer
Stickney, J. W. & Co., 31 Milk
Tremont Paint & Varnish Co.
Wadsworth, Howland & Co. (Inc.), 82 Washington
Wiley, I. H. & Co., 69 Sudbury
CHELSEA—Miller, Lyman M. (Estate of)
EVERETT—Boston Varnish Co.
MIDDLEBORO—Shaw, Geo. H. & Co.
SPRINGFIELD—Hampden Paint & Chemical Co.
Wadsworth, Howland & Co.
WALPOLE—Massachusetts Chemical Co.

### MICHIGAN.

DETROIT—Acme White Lead & Color Works
Berry Bros.
Cadillac Varnish Co.
Detroit Varnish Co.
McNamara, Michael
Peninsular Paint & Varnish Co.
Star Varnish Works
FLINT—Flint Varnish Works
PONTIAC—Price Varnish Co.

### MINNESOTA.

ST. PAUL—Twin City Varnish Co.

### MISSOURI.

KANSAS CITY—Continental Varnish & Color Co.
ST. LOUIS—American Insulating Material Mfg. Co., 9 S. 3d
Borden Varnish Co.
Gregg Varnish Co., 813 N 6th
Mound City Paint & Color Co.
Robbins, A. Varnish Co., 1537 N 8th
Vane-Calvert Paint Co., 1601 N B'way
Wellpott, Chas. H. W. Varnish Wks., 3220 N B'way

### NEW JERSEY.

CAMDEN—Graves, N. Z. Co.
Schrack, C. & Co.
GIBBSBORO—Lucas. John & Co.
HARRISON—Cromwell-Walker Co.
HOBOKEN—Hotopp Varnish Co.

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JERSEY CITY—Empire Paint Varnish Co.
Gillespie, Chas. H. & Sons, 125 Dey
New Jersey Paint Works (Louderbough Hy., Prop.)
NEWARK—Anglo-American Varnish Co., 55 Johnson
Armitage, Jno. L. & Co., Thomas & Dawson
Beckwith-Chandler Co.
Bigelow Varnish Co., 81 Oliver
Brooks, Clarence & Co., 249 Chestnut
Devoe, F. W. & C. T. Reynolds Co.
Essex & Conklin Co., 136 Chestnut
Flood & Conklin Co., 136 Chestnut
Huri Mfg. Co., 350 Ogden.
Imperial Varnish Works
Mitchell-Mallon Co.
Murphy Varnish Co.
Newark Varnish Works, Delancy c Adams
Palmer Price Co., 270 Chestnut
Patton Paint Co.
Pitcairn Varnish Co.
Rice, S. E. M. Filler Co., 21 Abel
Stiles, Charles H., 139 E. Kinney
PLAINFIELD—Price-Bond Woolston Co.

## NEW YORK.

AUBURN—Messenger, F. H. Co.
BINGHAMTON—Collier, H. C. & Sons
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Buffalo Oil, Paint & Varnish Co., 1317 Elk
Century Mfg. Co., 272 W. Genesee
Century Varnish Co., 272 W Genesee
Columbia Paint & Varnish Co., 12 Sanford
McDougal Varnish o., 1317 Elk
Metz, P. A. Paint Co., 769 Clinton
Pratt & Lambert. 79 Tonowanda
LONG ISLAND CITY—(See New York City, Borough of Queens)

## NEW YORK CITY.

### Borough of Brooklyn.

BROOKLYN—American Varnish Works, 425 Greenpoint av
Bohner's, Jos. Sons, 1093 Met. av
Booden's, P. Son, 243 N 9th
Brooklyn Varnish Mfg. Co., 35 Nostrand av
Carter, C. W. (Firm of), 19 Sigourney
Federal Varnish Co., 295 G'point av
Hildreth Varnish Co., 77 N 12th
Keystone Varnish Co., Otsego
Howe Varnish Co., 253 Norman av
King Paint Mfg. Co., 21 Dunham pl
Masury, John W. & Son, 50 Jay
Moller & Schumann Co., Marcy & Flushing avs
Oriental Varnish Works, 143 Sandford
Pierce, F. O. Co., 30 Tiffany pl
Valentine & Co., 364 Mhtn av
Wood & Shepard Varnish Co., 33 Wythe av

### Boroughs of Manhattan & Bronx.

NEW YORK—Alden, Geo. A. & Co. (Importers), 290 B'way
Anchor Varnish Works, 12 Fulton
Anderson, Geo. & Co., 100 William
Anderson, T. P., Jr., 39 E 42nd
Atlantic Drier & Varnish Co., 1 Madison av
Aurora Paint & Varnish Co., 41 Union sq
Beckwith-Chandler Co., 5th av & 32d
Behlen, Herman & Bro., 371 Pearl
Berry Bros., 258 Pearl
Billings, King & Co., 438 Pearl
Bridgeport Wood Finishing Co., 55 Fulton
Buffalo Specialty Co., 101 Reade
Calman, Emil & Co., 100 William
Carter, Chas. W. H., S Ferry
Celluloid Zapon Co., 310 4th av
Chicago Varnish Co., 36 Vesey
Chicago Wood Finishing Co., 949 Bway
Cleveland Varnish Co., 30 Church
Congress Varnish Works, 239 Front
Devoe, F. W. & C. T. Reynolds Co., 101 Fulton
Dunham, Thos. C., 68 Murray
Egyptian Lacquer Mfg. Co., 152 Front
Excelsior Varnish Works, 261 B'way
Federal Varnish Co., 1328 B'way
Feigel, M. & Bro., 80 Houston
Fisher, Wm. P., 71 3rd av
Glidden Varnish Co., 636 W 34th
Graves, N. Z. & Co., 161 Water
Haeuser, A. R. Co., 163 William
Hildreth Varnish Co., 77 N 12th
Kasebier, E. & Co., 175 Pearl
Laubenheimer Bros., 239 Front
London Varnish & Japan Co., 334 W 44th
Longman & Martinez, 207 Pearl
Louderback, A. E. (Importer), 118 Hudson
McNamara, Michael, 153 Maiden la
Marx & Rawolle, 100 William
Mayer & Lowenstein, 164 Water
Maynz & Co. (Brewers' Varnish), 13 Water
Mitchell Varnish Works, 949 B'way
Payson Varnish Co., 141 1st & Walnut av
Pierce, F. O. Co., 12 W B'way
Pitcairn Varnish Co., 50 Church
Pomeroy & Fischer (Importers), 30 Frankfort
Pratt & Lambert, 100 William, New York
Reliance Varnish Works (S. S. Rosenbaum, Prop.), 41 Union Sq
Rogers & Pyatt, 129 Front
Schlegel, Oscar Mfg. Co., 111 E 12th
Slee, J. Noah H., 42 B'way
Standard Varnish Works (Railroad, Marine, House, etc.), 29 B'way
Stoeckel, Rudolph E., 2048 Bronx
Thuebel, S. H., 130 Pearl
Toch Bros. (Est. 1848), 320 5th av
Valentine & Co., 257 B'way
Victorson Varnish Co., 100 Williams
Walpole Varnish Works, 30 Church
Whitehead, Jas. W.
Winterbourne, S. & Co., 94 Pine
Zinsser, Wm. & Co., 197 William

### Borough of Queens.

GLENDALE STATION—Lion Varnish Co.
Liszka, Irma, Glendale, L. I.
LONG ISLAND CITY—Calman, Emil & Co.
Chase, Roberts & Co.
Dolph, Jno. C.
Fenner, Geo. L.
First Am. Alcohol Varnish Co.
Mayer & Lowenstein
Molchan, Jno., 194 9th av
National Varnish Co.
Pratt & Lambert
Smith, Edw. & Co. (Inc.)
Thibaut, E. A. & Co.
Varnisol Co.
Victorson Varnish Co.

### Borough of Richmond.

ELM PARK—Standard Varnish Works
**(End of New York City)**
SCHENECTADY—Schenectady Varnish Co.
TROY—DeGolyer Varnish Co.

## OHIO.

AKRON—Akron Varnish Co.
CANTON—Canton Paint & Varnish Co.
CINCINNATI—Ault & Wiborg Co. (Finishing Varnishes & Japans)
Becker, R. A. Varnish Co.
Bird Varnish & Glue Co.
Blackburn Varnish Co.
Cincinnati Color Co.
Cincinnati Varnish Co., Erie & South sts
Griffin Mfg. Co., 1263 Budd
Pfaff, Jno., Varnish & Stain Co.
Queen City Varnish Co.
United States Varnish Co., 2618 Colerain
Wolf, Herman & Co.
CLEVELAND—Banner Varnish Co.
Billings-Chapin Co.
Cleveland Varnish Co.
Day Varnish & Dryer Co.
Empire Varnish Co., 2638 E 76th, S. E.
Excelsior Varnish Works, 1242 W 74th
Forest City Paint & Varnish Co., 3334 Lake-side av
Glidden Varnish Co. N. W.
National Paint & Varnish Co.
Ohio Varnish Co. ("Chi-Namel"), 8604 Kinsman rd, S E
Patterson-Sargent Co. ("Nisoron")
Peerless Paint & Varnish Co.
Sherwin-Williams Co.
Star Paint & Varnish Co.
Western Reserve Varnish Co.
COLUMBUS—Columbus Varnish Co.
DAYTON—Kay & Ess Co.
Lowe Bros. Co.
Thresher Varnish Co.
Tower Varnish & Dryer Co.
TOLEDO—Buckeye Paint & Varnish Co.
Royal Varnish Co.

## PENNSYLVANIA.

BENNETT—Ball Chemical Co.
HANOVER—Acme Extract & Chemical Works (E. G. Eckert, Prop.)
JAMESTOWN—Jamestown Paint & Varnish Co.
JOHNSTOWN—Cambria Paint & Color Co. (Ltd.)
LANCASTER—Lancaster Paint & Glass Co. (Shellac)
NORRISTOWN—Norristown Varnish Co.
PHILADELPHIA—Adams, Thos. J. & Co., 3605 N 4th
Atlantic Drier & Varnish Co., Meadow & Wolf
Brooklyn Varnish Mfg. Co., 262 N 4th
Coyne Bros. Varnish Co., N 2d c Pike
Denny, Hilborn & Rosenbach, 305 Florist
Felton, Sibley & Co., 136 N 4th
Flexible Compound Co., 3607 Haverford
**FRENCH, SAMUEL H. & CO., 4th & Callowhill.** (See adv. index, end of book)
Graves, N. Z. Co., 63 N 3rd
Harrison Bros. & Co., 35th c Gray's Ferry rd
Howell, C. H. & Co., 212 Race
Keystone Varnish Co., 923 Spg Garden
Lawrence-McFadden Co., 1400 Fkd. av
Lucas, John & Co., 322 Race
McCloskey, L. J. & Co., S 30th c Locust
Metropolitan Paint & Varnish Co., 322 Race
Nice, Eugene E. ("Nice"), 272 S Second
Rau, Conrad F., 2821 Germantown av
Schrack, C. & Co., 152 N 4th
Shoemaker, Robt. & Co., 201 N 4th
Spruance-Gilbert Co., 312 N 3rd
**THOMSON WOOD FINISHING CO.,** Bulletin bldg. (See adv. index, end of book)
Trainer, Walter L., 923 Spg Garden
Wocher, H. M. & Son, 1218 W College av
Woodhouse, Samuel F. ("Dull Eine"), Unity & Franklin
PITTSBURG—Eagle Paint & Varnish Co., North Side
Globe Varnish Co., 61st & Butler
Iron City Oil & Varnish Co., Inwood & Frankstown av
Lawrence, W. W. & Co. ("Hi-Lustre-Spar" etc.), W. Carson nr Point Bridge
McClintock & Irvine Co.
**NEVIN, T. H. CO. North Side,** Pittsburg, Pa. (See adv. index, end of book)
Sterling Varnish Co.
Suydam, M. B. Co., 61st & Butler
Thompson & Co., North Side
READING—Ruth, B. F. & Co.
Wilhelm, A. Co.
TULLYTOWN—Tulley Paint & Varnish Co.

## TEXAS.

HOUSTON—Houston Varnish & Paint Works (W. S. Scott, Prop.)
Rogers, W. H. & Co.
Texas Varnish & Specialty Works

## VIRGINIA.

RICHMOND—Atlantic Varnish Works.

## WASHINGTON.

SEATTLE—Seattle Paint Co.

## WISCONSIN.

KENOSHA—Simmons Mfg. Co.
MILWAUKEE—Pitcairn Varnish Co.

# Varnish Removers

(See Paint & Varnish Removers)

# 12775—Varnish Renovator

Aquart Mfg. Co. (Cleaning & Polishing), Chemical bldg, St. Louis, Mo.

# 12776—Varnishes (Asphaltum)

Akron Varnish Co., Akron, O.
Allentown Mfg. Co., Allentown, Pa.
Atlantic Drier & Varnish Co., Drexel bldg, Phila., Pa.
Armitage Mfg. Co., Richmond, Va.
Canton Paint & Varnish Co., Canton, O.
Chicago Varnish Co. (Black), 2090 Elston av, Chicago, Ill.
Continental Varnish & Color Co., Kansas City, Mo.
Cromwell-Walker Co. (Black), Harrison, N. J.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Eagle Paint & Varnish Co., N. S., Pittsburg, Pa.
Forest City Paint & Varnish Co., 3334 Lake-side av, Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill,** Phila., Pa. (See adv. index, end of book)
Harrison Bros. & Co. (Inc.), 35th c Gray's Ferry rd, Phila., Pa.
Hommel, O. Co., Pittsburg, Pa.
**INDIAN REFINING CO. (Black), 17** Battery pl, New York. (See adv. index & branch offices, end of book)
Kay & Ess Co., Dayton, O.
Lucas, Jno. & Co., 322 Race, Phila, Pa.

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McClintock & Irvine Co., Pittsburg, Pa.
McCloskey, L. J. & Co., 30th & Locust, Phila., Pa.
Macneal, Jas. B. &. Co., Baltimore, Md.
Mound City Paint & Color Co., St. Louis, Mo.
National Varnish Co., Long Island City, N. Y.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
O'Brien Varnish Co., South Bend, Ind.
Parker, Chas. H. Co. (Baking & Air Drying), Valparaiso, Ind.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co. (Black), Long Island City, N. Y.
Standard Varnish Works, 29 B'way, New York
Stickney, J. W. & Co., Boston, Mass.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila, Pa. (See adv. index, end of book)
Warren Bros. Co., Boston, Mass.
**WATSON, H. F. CO., Erie, Pa.** (See adv. index & branch offices, end of book)
Wilhelm, A. Co., Reading, Pa.

## 12777—Varnishes (Automobile)

(See Varnishes, Railway & Carriage)

## 12778—Varnishes (Cotton Tie)

McClintock & Irvine Co., Pittsburg, Pa.
Mound City Paint & Color Co., St. Louis, Mo.

## Varnishes (Floor)

(See Floor Finish)

## 12779—Varnishes (Insulating)

(See also Compounds, Insulating; also Paints, Insulating)

Berry Bros., Detroit, Mich.
Calman, Emil & Co. ("Ohmlac"), 100 William, New York
Central Paint & Supply Co. ("Gilselgloss"), St. Louis, Mo.
Devoe, F. W. & C. T. Reynolds Co., c Fulton & William, New York
Dielectric Mfg. Co., St. Louis, Mo.
Dolph, John C. Co. ("Wayahead," "Jayseedee"), Newark, N. J.
Eagle Paint & Varnish Co., Pittsburg, Pa.
Grothwell, Armand ("Mogul"), 350 W 25th, New York
Imperial Varnish Works, Newark, N. J.
Irvington Varnish & Insulator Co., Irvington, N. J.
Massachusetts Chemical Co. ("Armalac"), Walpole, Mass.
Moller & Schumann Co., Marcy av, Brooklyn,
Murphy Varnish Co., Newark, N. J. N. Y.
Packard Electric Co., Warren, O.
Schenectady Varnish Co., Schenectady, N. Y.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., Long Island City, N. Y.
Standard Paint Co. ("P. & B."), 100 William, New York
Standard Varnish Works ("Impregnite"), 29 B'way, New York
Sterling Varnish Co., Pittsburg, Pa.
Van Dorn & Dutton Co., Cleveland, O.

## 12780—Varnishes (Marine)

Berry Bros. (Ltd.), Detroit, Mich.
Canton Paint & Varnish Co., Canton, O.
Chesapeake Oil Co., Baltimore, O.
Chicago Varnish Co., 2090 Elston av, Chicago, Ill.
Devoe, F. W. & C. T. Raynolds, 101 Fulton, New York
**FRENCH, SAMUEL H, & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Kahle, H. B. Fred ("Elastic" Deck Varnish), 719 3rd av, Brooklyn, N. Y.
Lucas, John & Co., 322 Race, Phila., Pa.
McCloskey, L. J. & Co., 30th & Locust, Phila., Pa.
Masury, John W. & Son, 50 Jay, Brooklyn, N. Y.
Mound City Paint & Color Co., St. Louis, Mo.
National Varnish Co., Long Island City, N. Y.
**NEVIN, T. H. CO., North Side, Pittsburg, Pa.** (See adv. index, end of book)
O'Brien Varnish Co., South Bend, Ind.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., Long Island City, N. Y.
Standard Varnish Works, 29 B'way, New York.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila, Pa. (See adv. index, end of book)
Tech Bros. (Est. 1848) (Spar, etc.), 320 5th av, New York
Valentine & Co., 257 B'way, New York
Winn, Wm. R. (Spar, etc.), 143 Maiden Lane, New York

## 12781—Varnishes (Railway & Carriage)

American Varnish Co., 1140 N Branch, Chicago, Ill.
Babcock, John & Co. (Ltd.), Boston, Mass.
Beckwith-Chandler Co., Newark, N. J.
Berry Bros. (Ltd.), Detroit, Mich.
Cayne Bros. Varnish Co., 2d & Pike, Phila., Pa.
Flint Varnish Co., Flint, Mich.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Lawrence, W. W. & Co., Pittsburg, Pa.
Lowe Bros. Co., Dayton, Ohio
Lucas, John & Co., 322 Race, Phila., Pa.
Martin-Senour Mfg. Co., 2514 Quarry, Chicago, Ill.
Masury, John W. & Son, 50 Jay, Brooklyn, N. Y.
Mound City Paint & Color Co., St. Louis, Mo.
Murphy Varnish Co., Newark, N. J.
National Varnish Co., Long Island City, N. Y.
O'Brien Varnish Co., South Bend, Ind.
Schenectady Varnish Co., Schenectady, N. Y.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., Long Island City, N. Y.
Standard Varnish Works, 29 B'way, New York.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila, Pa. (See adv. index, end of book)
Valentine & Co., 257 B'way, New York.

## 12782—Varnishes (Shellac)

Rogers-Pyat Shellac Co. (For Brewers), 79 Water, New York

## 12783—Varnishes & Japans (Asphalt)

Akron Varnish Co., Akron, Ohio
Barrett Mfg. Co., 17 Battery pl, New York
Canton Paint & Varnish Co., Canton, O.
Chattanooga Roof & Paving Co., Chattanooga, Tenn.
Chesapeake Oil Co., Baltimore, Md.
Chicago Wood Finishing Co., 1216 Elston av, Chicago, Ill.
Densmore-Stabler Refining Co., Los Angeles, Cal.
**DOGGETT, STANLEY, 101 Beekman,** New York. (See adv. index, end of book)
Ford Mfg. Co., 2339 La Salle, Chicago, Ill.
**FRENCH, SAMUEL H. & CO., 4th &** Callowhill, Phila., Pa. (See adv. index, end of book)
Globe Asphalt Co., Bakewell bldg, Pittsburg, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
Lowe Bros. Co., Dayton, Ohio
Mound City Paint & Color Co., St. Louis, Mo.
Smith, Edw. & Co., Long Island City, N. Y.
Southern Refining Co., Los Angeles, Cal.
Southern Roofing Co., Atlanta, Ga.
**THOMSON WOOD FINISHING CO.,** Bulletin bldg, Phila., Pa. (See adv. index, end of book)
Trinidad Asphalt Mfg. Co. ("The Epure"), St. Louis, Mo.

## 12784— Vats (Cypress)

(See also Tanks, Wood)

Bushnell Tank Works, Bushnell, Ill.
Cypress Lumber Co., 88 Broad, Boston, Mass., & Apalachicola, Fla.
Stevens Tank & Tower Co. (Also Pine), Auburn, Me.

## 12785— Vats (Die)

Casey-Hedges Co., Chattanooga, Tenn.

## 12785a—Vault Fronts & Doors

**HALL'S SAFE CO., Main Office &** Factory, 3253 Spring Grove av, Cincinnati, Ohio. (See adv. index & branch offices, end of book)

## Vault & Office Furniture (Metallic)

(See Bank & Office Fixtures, Metallic)

## 12786—Vault & Sidewalk Lights (Plain & Prismatic)

**AMERICAN BAR LOCK CO.** ("Bar Lock" System), 26th & Penna av, Phila. Pa. (See adv. index & branch offices, end of book)
**AMERICAN LUXFER PRISM CO.,** General Office & Factory, Heyworth bldg, cor Wabash av & Madison, Chicago, Ill.; 507 W B'way, New York. (See adv. index & branch offices, end of book)
**AMERICAN MASON SAFETY TREAD Co.,** 702 Old South Bldg., Boston, Mass. (See adv. index & branch offices, end of book)
**AMERICAN 3-WAY PRISM CO. (3-Way Prisms),** 3633 Ashland av, Chicago, Ill. (See adv. index & branch offices, end
Amos, Chas. & Co., Detroit, Mich. of book)
Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
Bartlett, Harwood & Co., Baltimore, Md.
**BERGER MFG. CO., THE ("Berger Raydiant"),** Canton, O. (See adv. index & branch offices, end of book)
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
Brooklyn Vault Light Co. (Plain & Prismatic), Norman av & Henry, Brooklyn, N. Y.
Brooks, T. H. & Co., Cleveland, O.
**BROWN BROS. MFG. CO., 22d & Campbell av,** Chicago, Ill. (See adv. index & branch offices, end of book)
Bruner, P. M. Granitoid Co., St. Louis, Mo.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
**CHAMPION IRON CO., Kenton, O.** (See adv. index, end of book)
Chelmsford Foundry Co., Medford, Mass.
Chesapeake Iron Works, Baltimore, Md.
**CHICAGO SIDEWALK LIGHT CO.** Shields av & 33d, Chicago, Ill. (See adv. index, end of book)
Christopher & Simpson Arch'l Iron & Foundry Co., 811 Park av, St. Louis, Mo.
Columbia Iron & Wire Works Co., Canton, O.
Creswell, S. J. Iron Works, 23d & Cherry, Phila., Pa.
Crown Iron Works Co., Minneapolis, Minn.
Dauchy Iron Works (Plain & Prismatic), 223 W Illinois, Chicago, Ill.
Dauphin, Wm., 141 W 33d, New York
**DONOVAN WIRE & IRON CO., Chicago & W. & L. E. Ry., Toledo, O.** (See adv. index, end of book)
Ernst's, Chas. F. Sons, Buffalo, N. Y.
Fletcher & Crowell Co., Portland, Me.
Grauer, A. & Co. ("Bruner" System), Pittsburg, Pa.
Grossman Bros. & Rosenbaum, Willow av & 133d, New York
Ham, L. M. & Co., Boston, Mass.
Hetherington & Berner Co., Indianapolis, Ind.
Heughes, F. L., Rochester, N. Y.
Jackson, P. H. & Co., San Francisco, Cal.
Johnson Engineering & Cons. Co., Battle Creek, Mich.
Love Bros. (Inc.), Aurora, Ill.
Lucas, A. & Sons (Plain & Prismatic), Peoria, Ill.
McGuigan, Jno. & Co., San Francisco, Cal.
Madison Foundry Co., Cleveland, O.
Mark, Jacob Sons (Mfr.), 1233 2nd av, New York
Megquier & Jones Co., Portland, Me.
**MERRITT & CO., 93 Arch, Camden,** N. J. (See adv. index, end of book)
Mesker, Geo. L. Co., Evansville, Ind.
**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)

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# LUXFER SIDEWALK LIGHTS

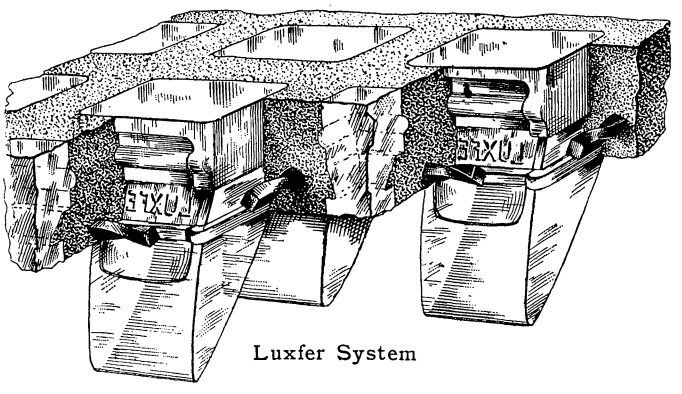
IN REINFORCED CONCRETE SETTING — BEST FOR BASEMENT LIGHTING

**LUXFER PRISM TILE** No Iron Frames No Rusting

**Great Strength and Durability**

**Waterproof and Free From Condensation**

Note the twisted **TENSION RODS** shown in illustration



Luxfer System

**LUXFER BLANK TILE** All Steel Imbedded in Cement

**LUXFER PRISMS in reinforced Concrete Setting Have No Equal**

Architects and Engineers are agreed upon the EXCELLENCE of this work.

ALL WORK INSTALLED AT THE BUILDING BY OUR OWN SKILLED WORKMEN

## AMERICAN LUXFER PRISM COMPANY

CHICAGO—Heyworth Building.
BOSTON—49 Federal Street.
BALTIMORE—812 Equitable Building.
CLEVELAND—406 Garfield Building.
CINCINNATI—Builders' Exchange.
DULUTH—106 West Michigan Street.
INDIANAPOLIS—7 East Market Street.
KANSAS CITY—948 New York Life Building.
LOS ANGELES—513 Higgins Building.
MILWAUKEE—1300 Majestic Building.
NEW YORK—507 West Broadway.
NEW ORLEANS—904 Hennen Building.
PITTSBURG—1222 Fulton Building.
PHILADELPHIA—807 Chestnut Street.
ROCHESTER—38 Exchange Street.
ST. PAUL—615 Ryan Building.
SAN FRANCISCO—151 Tehama Street.
DALLAS—Builders' Exchange.
MINNEAPOLIS—415 Kasota Building.

# Hendricks' Commercial Register

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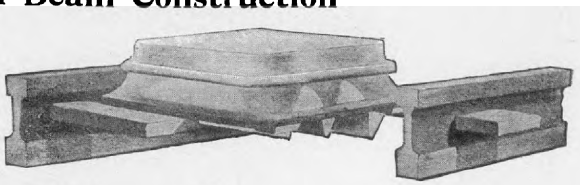
EFFECTIVE SIMPLICITY IN SIDEWALK LIGHTS

# PASCHALL INTERLOCKING SYSTEM

**Galvanized Wrought Steel Beam Construction**



with 3-WAY PRISMS give Maximum Strength



**Maximum Light Area Minimum Cost**

PAVEMENT LIGHTS FLOOR LIGHTS SKYLIGHTS

Manufacturers of SHEET PRISM, WIRE PRISM and PRISMATIC TILES

## AMERICAN 3-WAY PRISM CO.

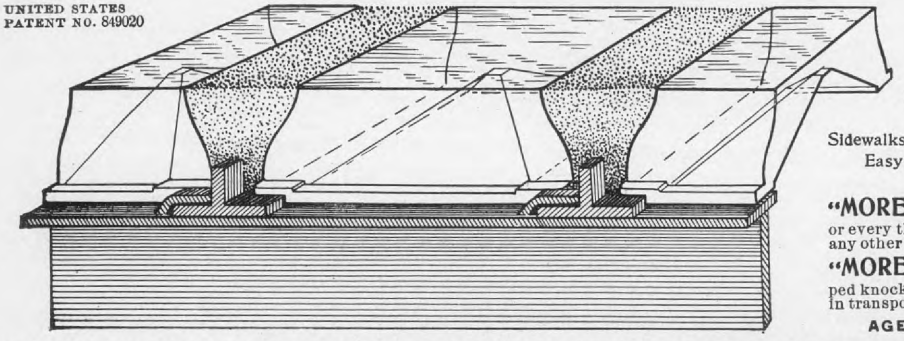
Main Office and Western Factory CHICAGO, ILL.

REPRESENTATIVES IN ALL LARGE CITIES Eastern Office, NEW YORK, N.Y. Eastern Factory, PHILA., PA.

## THE "MORE LIGHT" SIDEWALK CONSTRUCTION CO.

TWENTY-NINTH STREET, Local and Long Distance Phone. WHEELING, W. VA.

UNITED STATES PATENT NO. 849020



E. A. REICH, Manager

Manufacturers and Distributors of

**"More Light", Plain "Pyramid" or Prismatic Construction**

FOR

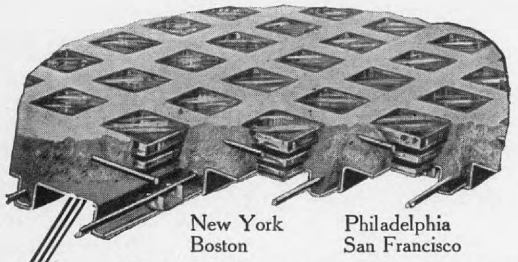
Sidewalks, Vaults, Floors, Ceilings and Skylights

Easy to Place — A Knock Down Frame — Low Freight Rates

**"MORE LIGHT"** Because the carrying bars are spaced at every other or every third glass and shades the light less than any other construction.

**"MORE LIGHT"** Has the ADVANTAGE over others, because it is shipped knocked down. Cannot get twisted or damaged in transportation. Write for Booklet.

AGENTS WANTED EVERYWHERE



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comprise the strongest, simplest and most economical system made. They combine minimum dead load with maximum live load strength and light surface.

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We also make **Ferro-Lithic, Rib-Trus and Multiplex Plates, Sidewalk Forms, Metal Lath, Studs and Furring, etc.**

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**Hendricks' Commercial Register**

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Mills, W. J., 423 Kent av, Brooklyn, N. Y.
**MINNEAPOLIS STEEL & MACHINERY** Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
**MORE LIGHT SIDEWALK CONSTRUCTION** Co., 29th st, Wheeling, W. Va. (See adv. index, end of book)
New York Glass Co., 393 Canal, New York
New York Prism Co., 497 W B'way, New York
Northwestern Foundry (Inc.), Minneapolis, Minn.
Pacific Iron Works, Portland, Ore.
Queen City Iron & Wire Works Co., Denver, Colo.
Richards & Kelly Mfg. Co. (Mfrs.), 309 W 23d, Chicago, Ill.
**RIESECK, P., c Allegheny av & Rebecca, N S Pittsburg, Pa.** (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
**ST. PAUL FOUNDRY CO., Como av & Mackubin, St. Paul, Minn.** (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
Smith, G. W. & F. Iron Co. (Mfrs.), Island & Gerard, Rox, Boston, Mass.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Smith & Lovett Co., 125 Albany, Boston, Mass.
Smith's, Albert Sons, Newark, N. J.
Snead Arch'l Iron Works, Louisville, Ky.
Sommerville Iron & Bronze Co. ("Baker" Patent), Pittsburg, Pa.
Southern Foundry Co., Owensboro, Ky.
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
Stewart & Stevens Iron Works, 9th c Montg'y av, Phila., Pa
Sun-Burst Prism Co. ("Sun-Burst Prismatic"), Phila., Pa.
Taylor, E. R. & Co. ("Bar-Lock" System). Boston, Mass
Toledo Wire & Iron Works, Toledo, O. York
Tucker & Vinton (Inc.), (Steel Concrete), 103 Park av, New York
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
Union Building & Cons. Co., Passaic, N. J.
Union Iron & Foundry Co., St. Louis, Mo.
Universal Iron Foundry ("Schwickart's Sunburst"), 283 Scholes, Brooklyn, N. Y.
Van Dorn Iron Works Co., Cleveland, O.
**VULCAN CO., Detroit, Mich. (See adv. index, end of book**
Wallace Machine & Foundry Co., Lafayette, Ind.
Ward, Wm. E. & Co., Cincinnati, O.
West Side Structural Co., Troy, N. Y.
Wisconsin Iron & Wire Works, 190 E Water, Milwaukee, Wis.

## 12786a—Vehicles (Children's)

Kirk-Latty Mfg. Co. (Express Wagons, All Steel), Cleveland, O

## 12787—Velour ("Tiffany")

Tiffany Studios, 347 Madison av, New York

## 12788—Veneer Built-Up Woods

Ahnapee Veneer & Seating Co., Algoma, Wis.
American Veneer Co., Kenilworth, N. J.
Frost's Veneer Seating Co., Sheboygan, Wis.

## 12789—Veneer (Liquid)

Buffalo Specialty Co., 375 Ellicott, Buffalo, N. Y.

## 12790— Veneer Mfrs.

Adams & Raymond, Indianapolis, Ind.
Advance Veneer & Lumber Co., Indianapolis, Ind.
Ahnapee Veneer & Seating Co., Algoma, Wis.
Ainslie, Geo. & Co., Portland, Ore.
Albree Veneer Co., Cincinnati, O.
American Mahogany Co., 225 Fifth av, New York
American Veneer Co. (Furniture Panels & Interior House Panels), Kenilworth, N. J.
Anderson-Tully Co., Memphis, Tenn.
Astoria Veneer Mills, Long Island City, N. Y.
Bacon, K. S. Veneer Co., 213 N Ann, Chicago, Ill.
Beach Lumber Co., Batavia, Ill.
Beach & Fuller Co., Evansville, Ind.
Beaver-Jackson Lumber & Veneer Co., Evergreen, Ala.
Beeson, Fred C. (Importer), 1032 Fulton, Chicago, Ill.
Burton Veneer Co., Montgomery, Ala.
Cadillac Veneer Co., Cadillac, Mich.
Boyd, C. C. & Co., Glenn bldg, Cincinnati, O.
Carrier Lumber & Mfg. Co. (Rotary Cut), Sardis, Miss.
Central Veneer Co. (Sliced), Indianapolis, Ind.
Chicago Veneer Co., Burnside, Ky.
Cincinnati Veneer Co., 128 W 6th, Cincinnati, O
Crocker Chair Co., Sheboygan, Wis.
Colby-Hinkle Co., Benton Harbor, Mich.
Dann Bros. & Co. (Veneers & Panels), New Haven, Conn.
Diamond Veneer Co., Edinburg, Ind.
Dwight Lumber Co., Rouge River & M C R R, Detroit, Mich.
Eastern Basket & Veneer Co., Buffalo, N. Y.
Eggers, Fred Veneer Seating Co., Two Rivers, Wis.
Elmore Veneer Co., Elmore, O.
Emery, George D. Co., Chelsea, Mass.
Evansville Veneer Co., Evansville, Ind.
Frost Veneer Seating Co., Sheboygan, Wis.
Gorham Bros. Co., Mount Pleasant, Mich.
Goshen Veneer Co., Goshen, Ind.
Grand Rapids Veneer Works (& Panels), Grand Rapids, Mich.
Great Lakes Veneer Co., Munsing, Mich.
Hall, Fessenden (Mahogany Lumber & Veneers), 218 S 2d, Phila., Pa.
Harper, G. H. Co., Orange, N. J.
Hanson-Ward Veneer Co., Bay City, Mich.
Hermansville Veneer Co., Hermansville, Mich.
Hoffman Bros. Co., Fort Wayne, Ind.
Holden, H. M. Veneer Co., Grand Rapids, Mich.
Hood & Wright, Big Rapids, Mich.
Indiana Veneer & Lumber Co. (Quartered Oak Sawed & Sliced), 1101 E 23d, Indianapolis, Ind.
Indiana Veneer & Panel Co., New Albany, Ind.
Indianapolis Sawed Veneer Co., Indianapolis, Ind.
Jamestown Panel & Veneer Co., Jamestown, N. Y.
Jarrell & Co. (Rotary Cut Gum), Humboldt, Tenn.
Jasper Veneer Mills, Jasper, Ind.
Johnson, L. S. & Co., 414 Albany, Boston, Mass.
Kentucky Veneer Works (Quartered, Sawed Oak Veneer), 13th & Magnolia, Louisville, Ky.
King, C. L. & Co., Holland, Mich.
Louisville Veneer Mills, 948 Fulton, Louisville, Ky.
McLeod, H. R., Baton Rouge, La.
Maley, Thompson & Moffett, 8th & McLean av, Cincinnati, O.
Mancelona Hoop Co., Manchester, Mich.
Markley & Filbert, Eaton, Ohio
Markley & Miller, 277 Dearborn, Chicago, Ill.
Memphis Veneer & Lumber Co., Memphis, Tenn.
Mengel, C. C. & Bro. Co., Louisville, Ky.
Michigan Veneer Co., Alpena, Mich.
Morris Mfg. Co., Oshkosh, Wis.
National Veneer Co., Charleston, W. Va.
New Albany Veneering Co. (Build-Up Or Veneered Tops, Panels, etc.), New Albany, Ind.
Ohio Veneer Co. (Mahogany, Oak, etc.), 2620 Colerain av, Cincinnati, O.
Paducah Box & Basket Co., Paducah, Ky.
Paducah Veneer & Lbr. Co., Paducah, Ky.
Palmer, Parker & Co., 103 Medford, Charleston, Mass.
Park Falls Mfg. Co., Park Falls, Wis.
Pearl City Veneer Co., Jamestown, N. Y.
Perfection Mfg. Co., Detroit, Mich.
Phila. Veneer & Lumber Co. (Imitation & Veneered Cedar), Knoxville, Tenn.
Portsmouth Veneer & Panel Co., Portsmouth, O.
Rhinelander Veneer Co., Rhinelander, Wis.
Rice Veneer & Lumber Co., Grand Rapids, Mich.
Roddis Veneer & Lumber Co., Marshfield, Wis.
St. Louis Basket & Box Co., St. Louis, Mo.
Setter Bros. & Co., Cattaraugus, N. Y.
Shiels, Chas. F. & Co., 923 Carr, Cincinnati, O.
Strong Veneer Co., Gerry, N. Y.
Sturn, Adolph Co. (Importer & Dealer), 552 W Wash, Chicago, Ill.
Superior Veneer & Cooperage Co. (For Cheese Boxes, Baskets, etc.), Buffalo, N. Y.
Thomasville Veneer & Panel Co., Thomasville, N. C.
Uiderwood Veneer Co., Wausau, Wis.
Uptegrove & Beckwith, 405 E 10th, New York
Vossnack Lumber & Veneer Co., Long Island City, N. Y.
Walker, J. C. & Sons, Alpena, Mich.
Walker Veneer & Lumber Co., Mound City, Ill.
Ward-Kent Co., Greenfield, Tenn.
Warren Veneer & Panel Co., Warren, Pa.
Webb, David R., Edinburg, Ind.
Whisler, Chas. F., Hillsboro, O.
White Veneer Co. (Hardwood), Boyne City, Mich.
Willey, C. L., 2564 S Robey, Chicago, Ill.
Williams, Ichabod T. & Sons, 549 Wabash av, Chicago, Ill.
Williamson-Kuny Mill & Lbr. Co., Mound City, Ill.
Williamson Veneer Co. (Furniture, Piano, etc.), Baltimore, Md.
Winterville Veneer Co., Winterville, Me.
Wisconsin Veneer Co., Rhinelander, Wis.
Wishler, C. F., Hillsboro, O.

## 12790a—Veneers (Quartered Sawed Oak)

**WOOD MOSAIC CO.; Office & Factory:** Rochester, N. Y. (See adv. index & branch offices, end of book)

## 12791—Ventilating ("Aero" System)

Aero Ventilator Mfg. Co., Rochester, N. Y.
Standard Ventilating Co., 149 Broadway, N. Y.

## 12792—Ventilating Apparatus for Power Plants, Factories, Buildings, Greenhouses, Etc.

(See also Blower Manufacturers; also Fans, Various Kinds)

Carmody, J. D. (Automatic), Evansville, Ind.
Dearborn Hardware Mfg. Co. ("Triumph" Roller Bearing), 2911 Carroll av, Chicago, Ill.
Devlin, Thos. Mfg. Co. (Self-Locking for Factories, Buildings, etc.), 3d & Lehigh av, Phila., Pa.
**DROUVE, G. CO., 40 Tulip, Bridgeport, Conn., & 40 Dearborn, Chicago, Ill.** (See adv. index, end of book)
Enterprise Mfg. Co. (Automatic), Newburgh, N. Y.
Hitchings & Co., 1170 B'way, New York
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
Kauffman Heating & Eng. Co., St. Louis, Mo.
Lord & Burnham Co., 1133 B'way, New York
Lupton's, David Sons Co. ("Pond"), Allegheny av & Tulip, Phila., Pa.
Payson Mfg. Co. ("Harris"), 2918 W Jackson boul, Chicago, Ill.
Quaker City Machine Co. (Evans' Roller Bearing), Richmond, Ind.
Thorn, J. S. Co. ("Brand"), 20th & Allegheny av, Phila., Pa.

## 12793—Ventilating Apparatus (Mechanical)

(See Fans, Exhaust or Ventilating; also Blower Manufacturers)

## 12794—Ventilating Apparatus (Ship)

Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
**HOWARD & MORSE ("Blackman" & "Duplex Cone"),** 46 Fulton, New York. (See adv. index, end of book)

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## 12794a–Ventilating Sets (Portable)

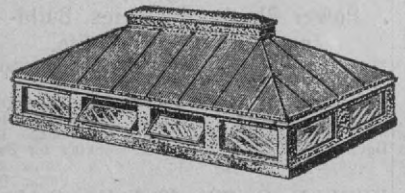
**STURTEVANT, B. F. CO., Hyde** Park, Mass. (See adv. index & branch offices, end of book)

## 12795–Ventilating & Humidifying Systems

**GRISCOM-SPENCER CO., 90 West,** New York. (See adv. index & branch offices, end of book)

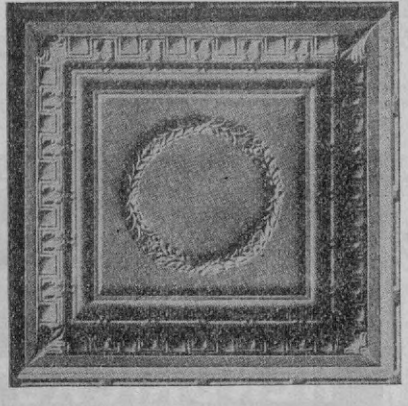
## 12796– Ventilator Mfrs.

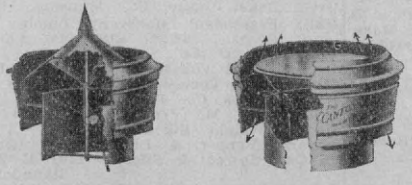
Aero Ventilator Mfg. Co., Rochester, N. Y.
**AMERICAN ROLLING MILL CO.** ("American"), Middletown, O. (See adv. index & branch offices, end of book)
American Ventilator Co. (Window), 86 Federal, Chicago, Ill.
Autoforce Ventilating System ("Autoforce"), 53 Devonshire, Boston, Mass.
Automatic Ventilating Co. ("Automatic"), 120 Liberty, New York
**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)
Basman, A. M. & Co., Detroit, Mich.
Berger Bros. Co. ("Perfection," "Earle's" Revolving), 231 Arch, Phila., Pa.
**BERGER MFG. CO., THE ("Buckeye" & "World"),** Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Bicalky Fan Co. ("Bi-cal-ky plus"), Buffalo,
Buckeye Mfg. Co., Canton, O. N. Y.
Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.
Burt Mfg. Co. ("Burt"), 32 Main, Akron, O.
Rochester, N. Y.
**BURTON, W. J. CO., 161 W Congress,** Detroit, Mich. (See adv. index, end of book)
Caldwell Mfg. Co. ("Caldwell" Window), Rochester, N. Y.
Calvert & Haloway (Nash), 68 N 2d, Phila., Pa.
Cambridge Roofing Co. (Eureka), Cambridge, O.
Canton Art Metal Co., Canton, O.
**CANTON MFG. CO. ("Canton"),** Canton, O. (See adv. index, end of book)
**CLASON ARCHITECTURAL METAL** Works (Revolving), 428 Kingsley av, Providence, R. I. (See adv. index, end of book)
Crooks-Kries & Co. (Copper & Galv. Iron), Baltimore, Md.
Crown Ventilator Co. ("Crown"), Milwaukee,
Cushing, D. & Co., Lowell, Mass. Wis.
Dowman-Dozier Mfg. Co. (Dixie), Atlanta, Ga.
**DROUVE. G. CO. ("Drouve"), 40 Tu**lip, Bridgeport, Conn., & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)
**EDWARDS MFG. CO., (Building &** Skylight), 545-565 Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Ekstrom, J. P. ("Ekstrom" Kitchen Chimney) Boyne City, Mich.
Eller Mfg. Co. ("Konical"), Canton, O.

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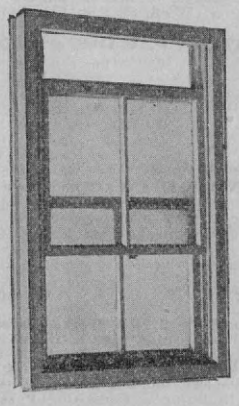
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Penn Ventilator Co. ("Penn's Rotary"), 94 Blackstone, Boston, Mass.
Follansbee Bros. Co. ("Keystone"), Pittsburg, Pa.
**FRIEDLEY-VOSHARDT CO. (Inc.)** ("Crescent"), 733 S Halsted, Chicago, Ill. (See adv. index, end of book)
**GLOBE VENTILATOR CO. ("Globe"),** Troy, N. Y. (See adv. index, end of book)
Garner Ventilating Co. (Mechanical), 140 Liberty, New York
**GOFF, HORNER & CO., Ltd., Offices,** Oliver bldg, Pittsburg, Pa. (See adv. index, end of book)
**Hall & Carpenter ("Buckeye & Moore"), 518 Race, Phila., Pa.**
Hewitt, Thos. J. (Rotary Screw), 51 Dey, New York
Hoffman & Baur ("Columbia"), 279 Blake, Milwaukee, Wis.
Hungerford, U. T. Brass & Copper Co. ("Royal," Copper & Galvanized Iron), 497 Pearl, New York
Independent Register & Mfg. Co., Cleveland, O.
Indianapolis Corrugating Co. ("Peerless"), Indianapolis, Ind.
Iona Ventilator Co. ("Iona"), 2327 No. 29th, Phila, Pa.
Jersey City Galvanizing Co., 112 John, New York, & Jersey City, N. J.
Keichler Mfg. Co., Cincinnati, O.
Kernchen Ventilator Co. ("Kernchen"), McCormick bldg, Chicago, Ill.
**Lee, Thos. ("Lee's Improved"), 132 W 2d, Cincinnati, O.**
Mack, W. A. & Co., Lowell, Mass.
**MERCHANT & EVANS CO. (Inc.)** ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Metallic Mfg. Co. (Metallic), Camden, N. J.
**Meurer Bros. Co. ("Anchor"), 575 Flushing av, Brooklyn, N. Y.**
**MILWAUKEE CORRUGATING CO.,** ("Milwaukee"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
**National Skylight & Ventilator Co. ("National" Revolving), Rochester, N. Y.**
**National Ventilating Co. ("National," "Mobile," "Victor," "Climax" & "Reliance"),** 337 E 26th, New York
**New England Steel Roofing Co., Worcester, Mass.**
**Ohio Blower Co. ("Swartout" Gravity Closing), Cleveland, O.**
Porter Iron Roofing & Corrugating Co. (Building & Skylight), 522 Culvert, Cincinnati, O.
Protective Ventilator Co., 110 W 32d, New York
Riter Bros. & Co. ("Earle's"), Phila., Pa.
Royal Ventilator & Mfg. Co. ("Royal"), 415 Locust, Phila., Pa.
**Saginaw Sheet Metal Works, Saginaw, Mich.**
**ST. PAUL ROOFING, CORNICE & Ornament Co., St. Paul, Minn. (See adv. index, end of book)**
Schoedinger, F. G. (Galvanized Iron, "Columbus"), Columbus, Ohio
Schuesseler, Jno., Covington, Ky.
Scott Roofing & Mfg. Co. (Building & Skylight), 408 Culvert, Cincinati, O.
Souther, E. E. Iron Co. ("Columbia"), St. Louis, Mo.
Uno Ventilator Co. ("Uno"), Lynn, Mass.
**Washburne, Edw. G. (Rotary Screw), 207 Fulton, New York**
Webb, E. & Son, 136 S Front, Phila., Pa.
Weimer, C. A. ("Imperial"), Lorain, O.
**Willcox Engineering Co., Saginaw, Mich.**

## 12797—Ventilator & Skylight Combined

Burt Mfg. Co., Akron, O.
Eller Mfg. Co., Canton, Ohio
Kanneberg Roofing & Ceiling Co., Canton, O.
**MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)**
National Ventilating Co., 337 E 26th, New York
Weis, Henry Cornice Co., Kansas City, Mo.

## 12798—Ventilators ("Badger's" Patent)

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## 12799—Ventilators (Brick Wall)

National Ventilating Co., 337 E 26th, New York
Pullman Automatic Ventilator Mfg. Co., York, Pa.
Tuttle & Bailey Mfg. Co., 76 Madison av, New York

## 12800—Ventilators (Car)

Autoforce Ventilating System ("Autoforce"), 53 Devonshire, Boston, Mass.
**Automatic Ventilator Co., 120 Liberty, New York**
**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
Creamer, W. G. & Co., 96 John, New York
Enterprise Mfg. Co. ("Chadborn's" Automatic Ventilator & Heat Control), Newburgh, N. Y.
**GLOBE VENTILATOR CO. ("Globe"),** Troy, N. Y. (See adv. index, end of book)
Gold Car Heating & Lighting Co. ("Gold's Cyclone" for Passenger & Refrigerator Cars), 17 Battery pl, New York
**Indianapolis Corrugating Co., Indianapolis, Ind.**
**MERCHANT & EVANS CO. (Inc.)** ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mudge, Burton W. & Co. ("Garland"), Peoples Gas bldg, Chicago, Ill.
National Ventilating Co., 337 E 26th, New York
**Perry Ventilator Co., New Bedford, Mass.**
Pullman Automatic Ventilator Mfg. Co. (Also for Depots, Offices, etc.), York, Pa.
**Royal Ventilator & Mfg. Co. ("Royal"), 415 Locust, Phila., Pa.**
Safety Car Heating & Lighting Co., 2 Rector, New York
**Vacuum Car Ventilating Co. ("Cooke" System), Fisher bldg, Chicago, Ill.**

## 12801—Ventilators (Closet)

Miller Foundry & Specialty Co., North Tonawanda, N. Y.
Pullman Automatic Ventilating Mfg. Co., York, Pa.

## 12802—Ventilators (Fire Retarding Model)

**CANTON MFG. CO., Canton, O. (See** adv. index, end of book)
**MERCHANT & EVANS (Inc.) ("A" & "B."), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)**

## 12803—Ventilators (Mine)

Schutte & Koerting Co. ("Koerting"), 12th & Thompson, Phila., Pa.

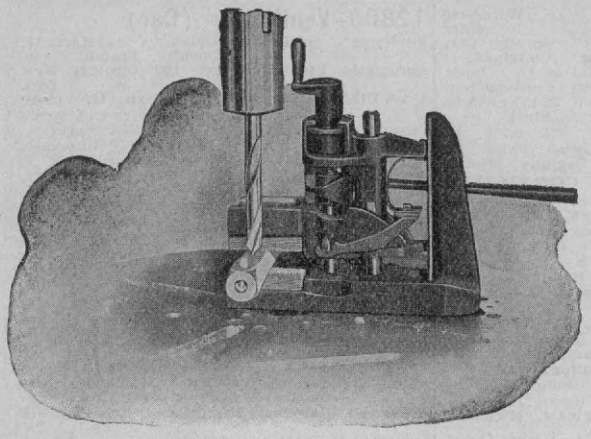

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**Deissler, P. & Bro. ("Deissler" Pivoted), 249 S 6th, Phila., Pa.**
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Acorn Brass Mfg. Co. ("Acorn"), Aurora, Ill.
**Autoforce Ventilating System ("Autoforce"), 55 Devonshire, Boston, Mass.**
**Automatic Ventilator Co. ("Automatic"), 120 Liberty, New York**
**Caldwell Mfg. Co. ("Caldwell"), Rochester, N. Y.**
Economy Ventilator Co. ("Economy"), Metropolitan Tower, New York
**Field's, Chas. J. Sons, 633 Market, Phila., Pa.**
**Ideal Mfg. Co. ("Ideal"), Erie, Pa.**
**Manhattan Perfected Ventilator Co., 11 Baxter, New York**
**Monarch Ventilator Co. ("Monarch," Power), 30 Church, New York**
**Morse, L. & Sons ("Morse" Adjustable), Athol, Mass.**
National Ventilating Co., 337 E 26th, New York
**Protective Ventilator Co. (Revolving, etc.), 110 W 32nd, New York**
Pullman Automatic Ventilating Mfg. Co. (For Either Top or Bottom), York, Pa.
**Roebuck Weather Strip & Wire Screen Co., 419 Hamilton av, Brooklyn, N. Y.**
Tuttle & Bailey Mfg. Co., 76 Madison av, New York

## 12807— Vermillion

**Acme White Lead & Color Works, Detroit, Mich.**
**Century Mfg. Co., Buffalo, N. Y.**
**Moser, Chas. Co., Cincinnati, O.**
**Tieman, D. F. & Co., 44 Duane, New York**

## 12808—Vestibules (Car)

Brill, J. G. Co., Phila., Pa.
Gould Coupler Co., 345 5th av, New York
McConway & Torley Co., Pittsburg, Pa.
Sjoberg, J. P. & Co. (Portable & Stationary, Principally for Street or Surface Cars), Av A & 78th, New York

## 12809— Vibrator Mfrs.

**Allison, W. D. Co., Indianapolis, Ind.**
**Barker, James ("Barker"), 6th & Cayuga, Phila., Pa.**
**Betz, Frank S., Hammond, Ind.**
Birtman Electric Co., 12 S Clinton, Chicago, Ill.
**COATES CLIPPER MFG. CO., Worcester, Mass.** (See adv. index, end of book)
**Electric Mfg. Co., San Francisco, Cal.**
**Eureka Vibrator Co., Majestic bldg, Detroit, Mich.**
**Eureka Vibrator Co. ("Vibro-Life" Hand Power), 1269 B'way, New York**
**Gen. Compressed Air & Vacuum Machy. Co. ("Thurman"), St. Louis, Mo.**
Globe Manufacturing Co. (Compressed Air, etc.), Battle Creek, Mich.
**Gorman, Samuel J. Co., 3225 Fullerton av, Chicago, Ill.**
**Hass, R. Electric & Mfg. Co. ("Ideal"), Springfield, Ill.**
Jacobson-Brandow Co., Pittsfield, Mass.
Keystone Electric Co., 135 S 10th, Phila., Pa.
Lindstrom-Smith Co. ("Red-Cross"), 253 La Salle, Chicago, Ill.
Magno Vibrator Co., 98 Market, Chicago, Ill.
**Marshall Vibrator Co., 205 W 56th, New York**
**Massette Co., Burlington, N. J.**
Shelton Electric Co. ("Wayne"), 35 Randolph, Chicago, Ill.
Standard Electric Works ("Arnold" Massage), Racine, Wis.
Stolz Electrophone Co., 92 State, Chicago, Ill.
**Swedish Electric Vibrator Co., 5285 E Ravenswood Park, Chicago, Ill.**
**Vibrassage Co., 679 Wells, Chicago, Ill.**
Victor Electric Co., 56 Market, Chicago, Ill.

## 12810—Vibrators (Foundry)

Hanna Engineering Works ("Jack" Electric), 2059 Elston, Chicago, Ill.

## 12811— Viscosimeters

**Bausch & Lomb Optical Co., Rochester, N. Y.**
Eimer & Amend ("Engler's", "Doolittle's", Improved, etc.), 205 3d av, New York
Feidt, Geo. D. & Co. ("Doolittle's" Torsion), 29 N 7th, Phila., Pa.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Tagliabue, Chas. J. Mfg. Co., 396 B'way, New York

## 12812—Vise Drilling Attachments

Goodell-Pratt Co., Greenfield, Mass.
**Prentiss Vise Co., 106 Lafayette, New York**

## 12813— Vise Pipe Grip

Athol Machine Co. ("Standard" to be Attached or Inserted to Jaws of a Vise for Making Pipe Vise), Athol, Mass.

## 12814—Vise Stands (Portable)

**NEW BRITAIN MACHINE CO., New Britain, Conn.** (See adv. index, end of book)
**Western Tool & Mfg. Co. ("Champion"), Springfield, O.**

## 12815—Vises (Amateur)

Athol Machine Co. ("Little Giant"), Athol, Mass.
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)

## 12816— Vises (Anvil)

Athol Machine Co., Athol, Mass.
**Bonney Vise & Tool Works, Allentown, Pa.**
**Fulton Iron & Engine Works, Detroit, Mich.**
**Millers Falls Co., 28 Warren, New York**
Prentiss Vise Co., 106 Lafayette, New York
Phoenix Hardware Mfg. Co., Homer, N. Y.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)
Sargent & Co., New Haven, Conn.
Stowell Mfg. & F'dry Co., S. Milwaukee, Wis.

## 12817—Vises (Automobile)

Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)

## 12818—Vises (Band Saw)

Atkins, E. C. & Co., Indianapolis, Ind.
**NEW BRITAIN MACHINE CO., New Britain, Conn.** (See adv. index, end of book)
**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

## 12819— Vises (Bench)

Abernathy Vise & Tool Co., 229 W 62d pl, Chicago, Ill.
**Athol Machine Co. ("Simpson's" Standard), Athol, Mass.**
Barrett Machine Tool Co. ("Barrett"), Meadville, Pa.
**Barbour-Stockwell Co. (Screw, the "Chandler" & "Washburn"), Cambridge, Mass.**
**Blissfield Motor Works ("Davenport" Tilting), Blissfield, Mich.**
**Bonney Vise & Tool Works (Inc.) ("Bonney" & "Champion"), Allentown, Pa.**
**Columbian Hardware Co. (Machinists, "Columbian," etc.), Cleveland, O.**
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Du Charme Co. (Quick Adjusting), Cambridge, Ohio
Emmert Mfg. Co. ("Presto", "Tiger"), Waynesboro, Pa.
Erie Tool Works, Erie, Pa.
Fisher & Norris ("Fisher"), Trenton, N. J.
Fulton Machine & Vise Co. (Swivel), Lowville, N. Y.
Globe Vise & Truck Co., Grand Rapids, Mich.
**HAMMACHER, SCHLEMMER & CO., 133 4th av, New York.** (See adv. index, end of book)
Hanna Engineering Works (Automatic, Quick Acting), 2059 Elston av, Chicago, Ill.
Hollands Mfg. Co., Erie, Pa.
Howard Iron Works (Fixed & Swivel), Buffalo, N. Y.
Ideal Machine Works, 257 39th, Brooklyn, N. Y.
Illinois Iron & Bolt Co. (Machinists, etc.), Carpentersville, Ill.
**INGERSOLL-RAND CO., 11 B'way, New York.** (See adv. index & branch offices, end of book)
Irving Mfg. & Tool Co., 157 Chambers, New York
Jones & Laughlin Steel Co. ("The Howard"), Pittsburg, Pa.
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
Massey Vise Co., 9 W Michigan, Chicago, Ill.

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Millers Falls Co., 28 Warren, New York
Parker, Chas. Co., Meriden, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pittsburg Automatic Vise & Tool Co. (Motor Boat & Automobile), Pittsburg, Pa.
Prentiss Vise Co., 106 Lafayette, New York
Reed Mfg. Co., Erie, Pa.
**RICHARDS - WILCOX MFG. CO.** ("Wilcox"), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
**ROCK ISLAND MFG. CO. ("Rock Island",** Automatic Swivel, Lock Jaw), Rock Island, Ill. (See adv. index & branch offices, end of book)
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
**ST. LOUIS SALES CO. ("Quick Action"),** 1224 Chemical bldg, St. Louis, Mo. (See adv. index, end of book)
Sheldon, E. H. & Co., 312 N May, Chicago, Ill.
Stearns, E. C. & Co. ("Stearns" Gypsy Pattern & Oval Slide), Syracuse, N. Y.
Toles, W. C. Co., 4034 N 43d av, Chicago, Ill.
Tower & Lyon Co. ("Stephens'" Patent & "XL"), 95 Chambers, New York
Walker, G. A. Machine Co. ("Best"), 51 Chardon st., Boston, Mass.
Walworth Mfg. Co., Boston, Mass.
Ware, J. L. & Co. ("Wares," Steel Yoke), St. Paul, Minn.
**Yost, G. M. Mfg. Co. ("Yost"), Meadville, Pa.**

## 12820– Vises (Bicycle)

Massey Vise Co., 9 W Michigan, Chicago, Ill.
Prentiss Vise Co., 106 Lafayette, New York

## 12821–Vises (Blacksmiths')

Columbian Hardware Co., Cleveland, O.
Columbus Forge & Iron Co., Columbus, O.
Eagle Anvil Works, Trenton, N. J.
New London Vise Works, New London, Conn.
**ROCK ISLAND MFG. CO. ("Rock Island"** Automatic Swivel), Rock Island, Ill. (See adv. index & branch offices, end of book)
Russ, A. E. Mfg. Co., Cleveland, O.
Tower & Lyon Co., 95 Chambers, New York
Wiley & Russell Mfg. Co., Greenfield, Mass.
Yost, G. M. Mfg. Co. ("Yost" Quick Acting Leg), Meadville, Pa.

## 12822–Vises (Cabinet Makers')

(See Vises, Coach Makers' or Wood Workers')

## 12823– Vises (Carpet)

Kraeuter & Co., Newark, N. J.
Osborne, C. S. & Co. ("Kelly"), Harrison, N. J.

## 12823a–Vises (Chain Pipe)

Ellis & Ford Mfg. Co. ("Ellis"), Detroit.
Erie Tool Works, Erie, Pa. Mich.
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 12824– Vises (Clamp)

Miller's Falls Co. (Oval Slide), 28 Warren, New York
Prentiss Vise Co., 106 Lafayette, New York
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
Phoenix Hardware Mfg. Co., Homer, N. Y.
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)
**Sheldon, E. H. & Co. ("Sheldon's" Mitre** Clamping), 312 N May, Chicago, Ill.
**Stearns, E. C. & Co., Syracuse, N. Y.**

## 12825–Vises (Coach Makers' or Wood-Workers')

Athol Machine Co. ("Simpson's"), Athol, Mass.
Barrett Machine Tool Co. ("Barrett"), Meadville, Pa.
Billings & Spencer Co., Hartford, Conn.
Bliss, R. Mfg. Co. (Carpenters), Pawtucket, R. I.
Bonney Vise & Tool Works, Allentown, Pa.
Columbian Hardware Co., Cleveland, O.
Emmert Mfg. Co. ("Presto"), Waynsboro, O.
General Machine Works, York, Pa.
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New London Vise Works ("Hyde's"), New London, Mass.
Oliver Machinery Co., Grand Rapids, Mich.
Parker, Chas. Co., Meriden, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
Prentiss Vise Co., 106 Lafayette, New York
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)
Sheldon, E. H. & Co. ("Sheldon" Rapid Acting), 312 N May, Chicago, Ill.
Timmis & Clissold, Boundbrook, N. J.
Toles, W. C. Co., 4034 N 43d av, Chicago, Ill.
Wyman & Gordon (Quick Action Wood Worker), Worcester, Mass.
Yost, G. M. Mfg. Co. ("Yost"), Meadville, Pa.

## 12826–Vises (Cutters')

New London Vise Works, New London, Conn.

## 12827– Vises (Drill)

Adams Co. ("The Diamond"), Dubuque, Ia.
Armstrong Bros. Tool Co. ("Armstrong" Quick Action), 337 N Francisco av, Chicago, Ill.
Blissfield Motor Works ("Davenport" Tilting for Drill Presses), Blissfield, Mich.
Bonney Vise & Tool Co., Allentown, Pa.
Fulton Machine & Forging Co. (Drill-Press), Fulton, Ohio
Graham Mfg. Co., Providence, R. I.
Hoggson & Pettis Mfg. Co. (Drill Press), New Haven, Conn.
Hopkinson Machine Works ("Hopkinson"), Springfield, Mass.
Jackson Vise & Tool Co. ("Utility" Drill Press), 5 Beekman, New York
Massey Vise Co., 9 W Michigan, Chicago, Ill.
Millers' Falls Co. ("Alford"), 28 Warren, New York
Modern Machine Tool Co., Cincinnati, O.
Patterson Tool & Supply Co. ("Patterson"), Dayton, O.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh" Drill Press), Pittsburg, Pa.
Plunket, J. E. ("Plunket" Drill Press), 1342 W. Lake, Chicago, Ill.
Prentiss Vise Co., 106 Lafayette, New York
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)
St. Louis Sales Co. ("Quick Action"), St. Louis, Mo.
Skinner Chuck Co. ("Skinner" Drill Press), New Britain, Conn.
Union Caliper Co. ("Hill for Drill Press"), Orange, Mass.

## 12828–Vises (Farmers')

Athol Machine Co., Athol, Mass.
Columbian Hardware Company ("Columbian"), Cleveland, O.
Parker, Chas. Co., Meriden, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)

## 12829– Vises (Foot)

Illinois Iron & Bolt Co. ("Rice"), Carpentersville, Ill.
New London Vise Works, ("Hyde's" Horse Shoers'), New London, Conn.
Noyes, B. B. & Co. ("Little Giant", Vise & Bolt Header Combined), Greenfield, Mass.

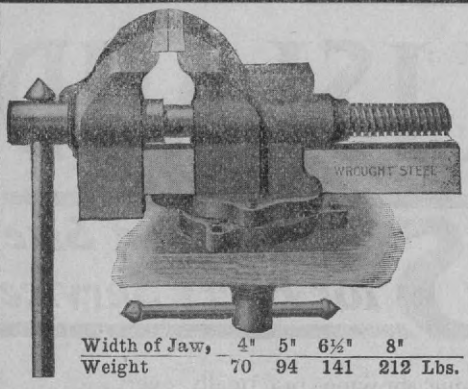
## 12830– Vises (Hand)

Athol Machine Co. ("Boss," "Standard"), Athol Mass.
Billings & Spencer Co. ("Brighton"), Hartford, Conn.
Bonney Vise & Tool Works (Swivel Bench & Hand Vise Combined), Allentown, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Goodell-Pratt Co., Greenfield, Mass.
Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York
Illinois Iron & Bolt Co., Carpentersville, Ill.
Irving Mfg. & Tool Co., 157 Chambers, New
Lowell Wrench Co., Worcester, Mass. York
Millers' Falls Co. ("Alford"), 28 Warren, New York
Phoenix Hardware Mfg. Co., Homer, N. Y.
Robinson, M. W. Co. ("Rollis"), 88 White, New York
**ROCK ISLAND MFG. CO., Rock Island,** Ill. (See adv. index & branch offices, end of book)
Secor, A. W., 65 Fulton, New York
Smith, Otis A. (Hand, with Parallel Jaw), Rockfall, Conn.
Universal Tool Co. (Also with Combination Wrench), Springfield, Mass.

## 12831–Vises (Horseshoers')

Burke, P. F., Dorr & Dorchester av, Boston, Mass.
Butts & Ordway Co. ("Sure Grip"), 33 Purchase, Boston, Mass.
Champion Tool Co. ("Champion" Foot), Meadville, Pa.

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Width of Jaw, 4" 5" 6½" 8"
Weight 70 94 141 212 Lbs.

# STEEL BAR —VISE—

**Combination Swivel and Stationary Base**

Manufactured by present firm for over 30 years. Noted for DURABILITY, SOLIDITY and STRENGTH OF GRIP. Recommended for Automobile Manufactories, and wherever an extra quality vise is wanted. Trial order solicited.

**MERRILL BROS.,** 5 WILLIAM STREET MASPETH, NEW YORK, N. Y.


Columbian Hardware Co., Cleveland, O.
Wells Bros. Co., Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Green River" Shoeing Vise & Bolt Header), Greenfield, Mass.

## 12832—Vises (Jewelers')

Athol Machine Co., Athol, Mass.
Emmert Mfg. Co., Waynesboro, Pa.
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
Lowell Wrench Co. (Pin), Worcester, Mass.
Parker, Chas. Co., Meriden, Conn.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
Prentiss Vise Co., 106 Lafayette, New York
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)
Secor, A. W., 65 Fulton, New York
Tower & Lyon Co., 95 Chambers, New York
Yost, G. M. Mfg. Co., Meadville, Pa.

## 12833—Vises (Linemen's)

**Billings & Spencer Co.** (Drop Forged), Hartford, Conn.
Dicke Tool Co., Downers Grove, Ill.
Utica Drop Forge & Tool Co., Utica, N. Y.

## 12834—Vises (Machinists')

**Adams Company** ("Diamond," Parallel Jaw), Dubuque, Iowa
**Athol Machine Co.** (Parallel Jaw), Athol, Mass.
**Barrett Machine Tool Co.** ("Barrett," Parallel Jaw, also Swivelling Jaw), Meadville, Pa.
Bonney Vise & Tool Works (Parallel "A-Jax," "Hercules"), Allentown, Pa.
**Columbian Hardware Co.** (Parallel Jaw), Cleveland, O.
Emmert Mfg. Co. ("Emmert" Universal Parallel Jaw), Waynesboro, Pa.
Erie Tool Works, Erie, Pa.
Fulton Machine & Vise Co., Lowville, N. Y.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Hanna Engineering Works (Parallel Jaw), 2059 Elston av, Chicago, Ill.
Herriman, C. A., 1338 N Halsted, Chicago, Ill.
**Hollands Mfg. Co.** (Parallel & Swivelling Jaw), Erie, Pa.
Howard Iron Works (Parallel Jaw), Buffalo, N. Y.
Illinois Iron & Bolt Co. (Swivel Self-Adjusting & Parallel), Carpentersville, Ill
Jackson Vise & Tool Co., Vineland, N. J.
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
Massey Vise Co., 9 W Michigan, Chicago, Ill.
**MERRILL BROS. (Parallel Jaw),** 5 William, Maspeth (Borough of Queens), New York. (See adv. index, end of book)
Miller's Falls Co., 28 Warren, New York
**NEW BRITAIN MACHINE CO., New** Britain, Conn. (See adv. index, end of book)
Parker, Chas. Co. ("Victor" Parallel & Swivelling Jaw), Meriden, Conn.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
Plunket, James E., 1342 W Lake, Chicago, Ill.
Prentiss Vise Co. ("Bulldog," Parallel & Swivelling Jaw), 106 Lafayette, New York
Reed Mfg. Co. (Parallel & Swivelling Jaw), Erie, Pa.
**ROCK ISLAND MFG. CO. ("Rock Island" Automatic Swivel), Rock Island, Ill.** (See adv. index & branch offices, end of book)
Tower & Lyon Co. (Parallel Jaw), 95 Chambers, New York
Union Caliper Co. ("Hill" Parallel Jaw), Orange, Mass.
Yost, G. M. Mfg. Co. ("Yost"), Meadville, Pa.

## 12835—Vises (Manual Training)

Emmert Mfg. Co. ("Eureka"), Waynesboro, Pa.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)
Yost, G. M. Mfg. Co. ("Yost"), Meadville, Pa.

## 12836—Vises (Milling Machine)

Atlas Machine Co. ("Atlas" Swivel), Providence, R. I.
Aurora Tool Works, Aurora, Ill.
Becker Milling Machine Co. ("Aetna"), Hyde Park, Mass.
Blissfield Motor Works ("Davenport" Tilting), Blissfield, Mich.
Brown & Sharpe Mfg. Co., Providence, R. I.
Carter & Hakes Machine Co. (Screw), Winsted, Conn.
**Cincinnati Milling Machine Co., Cincinnati, O.**
Clough, R. M., Tolland, Conn.
**Fox Machine Co., Grand Rapids, Mich.**
**Garvin Machine Co., 137 Varick, New York**
**Hendey Machine Co., Torrington, Conn.**
Jackson Vise & Tool Co. ("Utility"), 5 Beekman, New York
Kearney & Trecker, Milwaukee, Wis.
Kempsmith Mfg. Co., Milwaukee, Wis.
Le Blond, R. K. Mach. Tool Co., Cincinnati, O.
Massey Vise Co., 9 W Michigan, Chicago, Ill.
Oesterlein Machine Co., Cincinnati, O.
Owen Machine Tool Co. (Swivel), Springfield, Ohio
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
Plunket, J. E. ("Plunket"), 1342 W Lake, Chicago, Ill.
Pratt & Whitney Co., Hartford, Conn.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)
Union Caliper Co. ("Hill"), Orange, Mass.
Vanderbeck Tool Works, Hartford, Conn.
Whitney Mfg. Co., Hartford, Conn.

## 12837—Vises (Oval Slide)

Athol Machine Co., Athol, Mass.
Parker, Chas. Co., Meriden, Conn.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)

## 12838—Vises (Parallel)

(See also Vises, Bench)

**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
**MERRILL BROS. (Steel Bar,) 5 William,** Maspeth (Borough of Queens), New York. (See adv. index, end of book)
Parker, Chas. Co., Meriden, Conn.
**ROCK ISLAND MFG. CO., Rock Island, Ill.** (See adv. index & branch offices, end of book)

## 12839—Vises (Pattern Makers')

(See Vises, Coach Makers' or Wood Workers'; also Vises, Bench)

## 12840—Vises (Picture Frame)

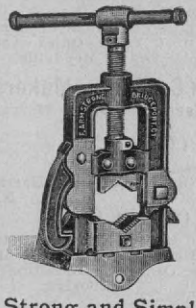
Marsh, H. C. Co. ("Marsh"), Rockford, Ill.
Rockford Mitre Box Co. ("Star"), Rockford, Ill.

## 12841— Vises (Pin)

Bergman Tool Mfg. Co. (Also Tool Handle), Buffalo, N. Y.
Billings & Spencer Co. ("Billings"), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Fray, John S. Co. (Inc.), Bridgeport, Conn.
Goodell-Pratt Co., Greenfield, Mass.
Kendrick & Davis, Lebanon, N. H.
Lowell Wrench Co. (Jewelers, etc.), Worcester, Mass.
Robinson, M. W. Co. ("Rollis", "Robinson"), 88 White, New York
**STARRETT, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

## 12842— Vises (Pipe)

Adams Co. ("Diamond"), Dubuque, Ia.
**ARMSTRONG MFG. CO. (Hinged** Pipe Vises), 278 Knowlton, Bridgeport, Conn. (See adv. index & branch offices, end of book)

**Armstrong's Hinged Pipe Vise**

Strong and Simple. Made of the best malleable iron with interchangeable crucible steel jaws. Four sizes up to six inch pipe. Ask your dealer or write us direct.

**The Armstrong Mfg. Co.**

*278 Knowlton Street.*
*BRIDGEPORT, CONN.*


Barrett Machine Tool Co. ("The Barrett" Combination), Meadville, Pa.
Bonney Vise & Tool Works (Indispensable, etc.), Allentown, Pa.
Butler Co., Butler, Ind.
Butterfield & Co., Derby Line, Vt.
Clark Bros. Co., Belmont, N. Y.
Cox & Sons Co., 215 Race, Phila., Pa.
Connecticut Tool Co. (Hinged), Bridgeport, Conn.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

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Crane Valve Co. (Malleable Iron), Bridgeport,
Curtis & Curtis Co., Bridgeport, Conn. Conn.
Du Charme Co. (Quick Adjusting, Open Top), Cambridge, O.
Eagle Anvil Works ("Fisher"), Trenton, N. J.
Emmert Mfg. Co. ("Presto"), Waynesboro, Pa.
Enterprise Windmill Co. ("Enterprise"), Sandwich, Ill.
Erie Mfg. & Supply Co. (Sectional Jaw), Erie, Pa.
Erie Tool Works (Chain, etc.), Erie, Pa.
Fulton Machine & Vise Co. ("F. & R.," "Star" Solid Jaw & Combination Pipe), Lowville, N. Y.
General Fire Extinguisher Co., Providence, R. I.
Henderer, E. & Co., Wilmington, Del.
Hilts Wrench & Mfg. Co. ("Vulcan" Chain), Richford, N. Y.
Howard Iron Works, Buffalo, N. Y.
Illinois Iron & Bolt Co. ("I. I. & B. Co."), Carpentersville, Ill.
Irving Mfg. & Tool Co., 157 Chambers, New York
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
**KEMP, C. M. CO. ("Climax"), 401 E** Oliver, Baltimore, Md. (See adv. index, end of book)
Mark Mfg. Co. ("Roller"), Evanston, Ill.
Massey Vise Co. ("Clinches." Lightning Grip), 9 W Michigan, Chicago, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Nye Tool & Machine Works ("Nye"), 108 S Jefferson, Chicago, Ill.
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
Oswego Tool Co. ("Walworth," "Armstrong" & "Smith" Patterns), Oswego, N. Y.
Parker, Chas. Co. (Combination), Meriden, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
Prentiss Vise Co. ("Rex," "New Blake," "Prentiss," Combination "Prentiss," Open Side & 20th Century "Shepard"), 106 Lafayette, New York
Reed Mfg. Co., Erie, Pa.
**ROCK ISLAND MFG. CO. ("Rock Isl**and" Automatic Swivel & Hinged), Rock Island, Ill. (See adv. index & branch offices, end of book)
**ST. LOUIS SALES CO. ("Quick Ac**tion"), 1224 Chemical bldg, St. Louis, Mo. (See adv. index, end of book)
Saunders, D. Sons Co., Yonkers, N. Y.
**SIMMONS, JOHN CO., 110 Centre** New York. (See adv. index, end of book)
Spencer Regulator Co. ("Spencer"), Salem, Mass.
Toledo Pipe Threading Machine Co., Toledo, O.
Vandeman Mfg. Co. (Combination & Self-Locking), Willimantic, Conn.
Walworth Mfg. Co. ("Klingfast"), Boston, Mass.
Warnock Mfg. Co. ("Warnock" Smooth & Nickel Pipe), Worcester, Mass.
Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.
Williams, J. H. & Co. (Chain), 150 Hamilton av, Brooklyn, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York
Yost, G. M. Mfg. Co., Meadville, Pa.

## 12843—Vises (Pipe, Combination)

Barrett Machine Tool Co. ("Barrett") Meadville, Pa.
Bonney Vise & Tool Works, Allentown, Pa.
Fulton Machine & Vise Co., Lowville, N. Y.
Hollands Mfg. Co. ("Hough"), Erie, Pa.
Howard Iron Wks., Buffalo, N. Y.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
Prentiss Vise Co. ("Prentiss"), 106 Lafayette, New York
Reed Mfg. Co., Erie, Pa.
**ROCK ISLAND MFG. CO., Rock Isl**and, Ill. (See adv. index & branch offices, end of book)
St. Louis Sales Co. ("Quick Action"), St. Louis, Mo.
Secor, A. W., 65 Fulton, New York.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
Yost, G. M. Mfg. Co., Meadville, Pa.

## 12844—Vises (Planer & Shaper)

American Tool Works Co., Cincinnati, O.
Blissfield Motor Works ("Davenport" Tilting), Blissfield, Mich.
Carter & Hakes Machine Co., Winsted, Conn.
Fulton Machine Co., Canal Fulton, O.
Hendey Machine Co., Torrington, Conn.
Massey Vise Co., 9 W Michigan, Chicago, Ill.
Pratt & Whitney Co., Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Pittsburg Automatic Vise & Tool Co., Pittsburg, Pa.
**ROCK ISLAND MFG. CO., Rock Isl**and, Ill. (See adv. index & branch offices, end of book)
Union Caliper Co. ("Hill"), Orange, Mass.
Vanderbeck Tool Works, Hartford, Conn.

## 12845—Vises (Plush Nipple Radiator)

Peterson, H. L. E., Elgin, Ill.

## 12846— Vises (Saw)

Atkins, E. C. & Co., Indianapolis, Ind.
Baldwin, Tuthill & Bolton (For Band Saws), Grand Rapids, Mich.
Bonney Vise & Tool Works (Saw Filers), Allentown, Pa.
Buckeye Saw Vise Co., Cleveland, O.
Cincinnati Tool Co. ("Hargrave"), Cincinnati, Ohio
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Filer & Stowell Co. ("Cunningham", for Band & Gang Saws), Milwaukee, Wis.
Foote, J. B. Foundry Co. (Folding, Saw Filers' Vises), Fredericktown, O.
**GRAMMES, L. F. & SONS, Allentown,** Pa. (See adv. index, end of book)
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Jennings, C. E. & Co., 42 Murray, New York
**NEW BRITAIN MACHINE CO. (Band** & Circular Saw Vises), New Britain, Conn. (See adv. index, end of book)
Parker, Chas. Co. (Adjustable Saw Filers), Meriden, Conn.
Phoenix Hardware Mfg. Co. ("Wentworth" Pattern, "Phoenix"), Homer, N. Y.
Stearns, E. C. & Co. ("Stearns," "Wentworth"), Syracuse, N. Y.
Stover Mfg. Co., Freeport, Ill.
Weber Mfg. Co. (Folding Saw Filing Vises), West Allis, Wis.

## 12847—Vises (Shoe & Harness)

Stover Mfg. Co. ("Ideal"), Freeport, Ill.

## 12848—Vises (Solid Box)

Columbian Hardware Company, Cleveland, O.
Columbus Forge & Iron Co., Columbus, O.
Fisher & Norris ("Fisher"), Trenton, N. J.
**HAMMACHER, SCHLEMMER & CO.,** 133 4th av, New York. (See adv. index, end of book)
Iron City Tool Works (Ltd.), Pittsburg, Pa.
**MERRILL BROS. (Steel Bar, Parallel** Jaws, Swivel Base), 5 William, Maspeth (Borough of Queens), New York. (See adv. index, end of book)
New London Vise Works, New London, Conn.
Prentiss Vise Co., 106 Lafayette, New York
**ROCK ISLAND MFG. CO., Rock Isl**and, Ill. (See adv. index & branch offices, end of book)

## 12849—Vises (Tool Makers')

Atlas Machine Co. ("Atlas"), Providence, R. I.
Brown & Sharpe Mfg. Co., Providence, R. I.
Emmert Mfg. Co. ("University"), Waynesboro, Pa.
Leavens Mfg. Co. ("Jersey"), Vineland, N. J.
**MERRILL BROS. (Steel Bar), 5 Wil**liam, Maspeth (Boro. of Queens), New York. (See adv. index, end of book)
Parker, Chas. Co., Meriden, Conn.
Pittsburg Automatic Vise & Tool Co. ("Pittsburgh"), Pittsburg, Pa.
**ROCK ISLAND MFG. CO., Rock Isl**and, Ill. (See adv. index & branch offices, end of book)

## 12850— Vitreosil

Wilson-Maeulen Co., 1 E 42d, New York

## 12851—Voltmeters (Milli)

**BRISTOL CO ("Bristol's" Record**ing), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12852—Voltmeters & Frequency Indicator Combined

Wagner Electric Mfg. Co., St. Louis, Mo.

## 12853— Vulcabeston

**JOHNS-PRATT CO., THE. (For Elec**tric Insulation & Steam Packing, etc.), Hartford, Conn.

## 12854—Vulcanizers (Rubber)

Biggs Boiler Works Co., Akron, O.
Birmingham Iron Foundry, Derby, Conn.
**CROSSLEY MACHINE CO., State &** Monmouth, Trenton, N. J. (See adv. index, end of book)
Farrel Fdry. & Machine Co., Ansonia, Conn.
**KOVEN, L. O. & BRO., 50 Cliff, New** York. Works: Jersey City, N. J. (See adv. index, end of book)
Leslie, Elliott & Co., Paterson, N. J.
McNeil Boiler Co., Akron, O.
Manitowoc Engineering Works, Manitowoc, Wis.
Miller, Chas. E., Anderson, Ind.
Smith, Samuel & Son Co., Paterson, N. J.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Thropp, Wm. R., Trenton, N. J.

## 12855—Vulcanizers (Tire & Tube)

Auto-Tire Vulcanizing Co., Lowell, Mass.
Biggs Boiler Works, Akron, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Leslie, Elliott & Co., Paterson, N. J.
Miller, Chas. E. ("Miller's" Steam for Repairing Auto Inner Tubes), Anderson, Ind.
Rice & Dayton Mfg. Co., Cedar Falls, Ia.
Shaler, C. A. Co. ("Shaler" Electric), Waupun, Wis.
**THROPP'S, JNO. E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Throop, Wm. R., Trenton, N. J.
Wishart-Burge Machine Works, 218 N Jefferson, Chicago, Ill.

## 12856—Wagon Dump Boxes

Black Mfg. Co. ("Chicago" Quick Dumper), 219 W Ohio, Chicago, Ill.
Cator Dump Wagon Co., Palmyra, N. Y.
Eagle Wagon Works, Auburn, N. Y.
Everett Mfg. Co. ("Everett," Portable), New-
Flower, Albert, Camden, O. ark, N. Y.
Galion Iron Works Co., Galion, O.
Glen Wagon Co. ("Star"), Seneca Falls, N. Y.
**JACKSON MFG. CO., 50 Church,** New York. (See adv. index & branch offices, end of book)
Koob Dumping Wagon Co., Moline, Ill.
Marion Dump Wagon Co., Marion, O.
Ohio Road Machinery Co. ("Ohio"), Oberlin, Ohio
Studebaker Corp., South Bend, Ind.
Tiffin Wagon Co., Tiffin, Ohio
**TROY WAGON WORKS CO.** ("Troy"), 100 E Race, Troy, O. (See adv. index, end of book)
Turnbull Wagon Co., Defiance, O.

## 12856a—Wagon Ends (Reversible)

**TROY WAGON WORKS CO., 100 E.** Race, Troy, O. (See adv. index, end of book)

## 12857—Wagon Tops (Three-Bow)

Troy Carriage Sun Shade Co. (For Wagons, Trucks, etc.), Troy, O.

## 12858—Wagons (Asphalt, Dump)

Briggs Labor Saving Specialty Co., Waterloo, Iowa
Columbia Wagon Co., Columbia, Pa.
Eagle Wagon Works, Auburn, N. Y.
Glen Wagon Co. ("Star"), Seneca Falls, N. Y.
Haywood Wagon Co. (Self-Dumping, Steel or Wooden), Newark, N. Y.
**JACKSON MFG. CO., 50 Church,** New York. (See adv. index & branch offices, end of book)
McNeil Boiler Co., Akron, O.
Milburn Wagon Co., Toledo, O.
Shadbolt Mfg. Co., 68 Flushing av, Brooklyn, N. Y.
Studebaker Corp., South Bend, Ind.
**TROY WAGON WORKS CO. ("Troy"),** 100 East Race, Troy, O. (See adv. index, end of book)
Watson Wagon Co., Canastota, N. Y.

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## Wagons (Baggage & Express)

(See Barrows, Baggage & Express)

## 12859—Wagons (Bakers')

American Wagon Co., Cincinnati, O.
Armleder, O. Co., Cincinnati, Ohio
Parsons Wagon Co., Earlville, N. Y.

## 12860—Wagons (Bottom Dump, Reversible)

**TROY WAGON WORKS CO., 100 E.** Race, Troy, O. (See adv. index, end of book)

## 12861—Wagons (Brewery)

Akron-Selle Co., Akron, Ohio

## 12862—Wagons (Builders')

Akron-Selle Co., Akron, Ohio
Millburn Wagon Co., Toledo, O.
Studebaker Corp., South Bend, Ind.
Watson Wagon Co., Canastota, N. Y.

## 12863—Wagons (Coal Charging)

**JACKSON MFG. CO., 50 Church,** New York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.

## 12864—Wagons (Coal & Coke)

Akron-Selle Co. (Spring), Akron, Ohio
Haywood Wagon Co. (For Coal Yards, Steel or Wooden), Newark, N. Y.
**JACKSON MFG. CO., 50 Church,** New York, & Harrisburg, Pa. (See adv. index, end of book)
Streich, A. & Bro. Co. (Spring & Dead Axle), Oshkosh, Wis.

## 12865—Wagons (Coaster)

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Wabash Mfg. Co. ("Wabash Express"), Terre Haute, Ind.

## 12866—Wagons (Contractors')

(See Wagons, Dumping)

## 12866a—Wagon's (Contractors' Reversible Road Building)

**TROY WAGON WORKS CO. ("Troy"),** 100 E Race, Troy, O. (See adv. index, end of book)

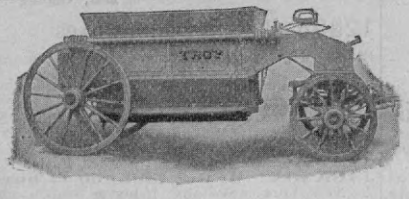
## 12867—Wagons (Delivery)

Akron-Selle Co., Akron, Ohio
Racine-Sattley Co., Racine, Wis., & Springfield, Ill.

## 12868—Wagons (Dumping)

Acme Wagon Co., Emigsville, Pa.
Austin-Western Co., Ltd. ("Austin"), Manhattan bldg, Chicago, Ill.
Beckert, Wm., North Side, Pittsburg, Pa.
Blake, J. M. & Son, 54 Indiana, Buffalo, N. Y.
Black Mfg. Co. ("Chicago" Quick Dumper), 219 W Ohio, New York
Briggs Labor Saving Specialty Co. (Rear End), Waterloo, Iowa
Cator Dump Wagon Co., Palmyra, N. Y.
Climax Road Machine Co., Marathon, N. Y.
Columbia Wagon Co. ("Day's" Columbian Dump Bottom), Columbia, Pa.
Connellsville Iron Works (Steel Body), Connellsville, Pa.
Eagle Wagon Works, Auburn, N. Y.
Galion Iron Works Co., Galion, O.
Glen Wagon Co. ("Star"), Seneca Falls, N. Y.
Haywood Wagon Co. (Steel & Wooden, Self-Dumping, also Bottom & Rear End Dump), Newark, N. Y.
Hill, Thos. (Steel), Jersey City, N .J.
Indiana Road Machine Co. ("National"), Fort Wayne, Ind.
**JACKSON MFG. CO., 50 Church,** New York. (See adv. index & branch offices, end of book)
Keystone Vehicle Co. ("Keystone" Patent for Coal Only), Reading, Pa.
Koob Dumping Wagon Co. ("Koob" Bottom Dump), Moline, Ill.
Kramer Wagon Co. ("Oil City"), Oil City, Pa.
MacKinnon Mfg. Co. ("Steel King" Bottom Dump), Grand Rapids, Wis.
Marion Dump Wagon Co., Marion, O.
Milburn Wagon Co. ("Greater Pittsburg"), Toledo, O.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Racine-Sattley Co. ("Racine"), Racine, Wis., & Springfield, Ill.
Schuttler, Peter Co., 2509 W 23d, Chicago, Ill.
Shadbolt Mfg. Co., 68 Flushing av, Brooklyn, N. Y.
Smith & Sons Mfg. Co. ("Royal"), Kansas City, Mo
Streich, A. & Bro. Co., Oshkosh, Wis.
Stroud, T. F. & Co. ("Little Red" Bottom Dump), Omaha, Neb.
Studebaker Corp., South Bend, Ind.
Thompson-Breese Co. (Steel), Wapakoneta, O.
Tiffin Wagon Co., Tiffin, O.
**TROY WAGON WORKS CO. ("Troy"** Bottom Dump). 100 E Race, Troy, O. (See adv. index, end of book)
Universal Road Machinery Co. ("Reliance"), Kingston, N. Y.
Watson Wagon Co., Canastota, N. Y.
Western Wheeled Scraper Co. ("Aurora"), Aurora, Ill.

**When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER**

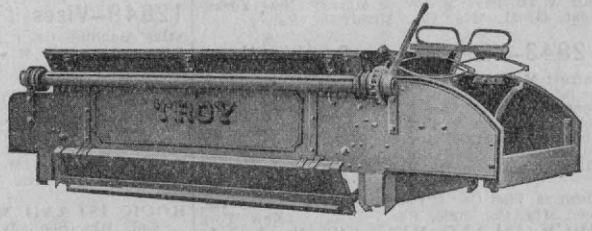

## THE WAGON WITH THE CHUCKLE

Every teamster listens for the chuckle—it tells him the story of a dump wagon's running qualities. The louder the chuckle the easier it runs.

Every TROY has the tell-tale chuckle. We build TROYS in every size and capacity—we have a model exactly suited to your needs. No matter which one you buy, you'll find it the easiest running wagon on the market. It's also right in every other way, including price. Get Catalog H.

## THE BOX WITH STEEL DOORS

A dump box with wood doors can't be absolutely satisfactory. Wet weather or wet loads are sure to shrink or swell the wood—then the box leaks. TROY Boxes have four sheet steel doors— they can't split, wear out or warp.




TROYS fit—they seem a part of the gear. And they always work quickly and smoothly. We can make a dump wagon out of your gear—let us tell you all about our Boxes.

Get Bulletin H.

# THE TROY WAGON WORKS COMPANY

**100 East Race Street, TROY, OHIO**


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## 12869— Wagons (Farm)

### ALABAMA.

FLORENCE—Florence Wagon Works ("Florence")

### ARKANSAS.

FORT SMITH—Fort Smith Wagon Co. ("Fort Smith")
JONESBORO — Jonesboro Wagon Mfg. Co. ("Jonesboro")

### COLORADO.

DENVER—Plattner Implement Co.

### GEORGIA.

ATLANTA—White Hickory Wagon Mfg. Co. ("White Hickory")
AUGUSTA—Lowey Wagon Works
COLUMBUS—Davis Wagon Co. ("Davis")

### ILLINOIS.

ABINGDON — Abingdon Wagon Co. ("Abingdon," "Clinton," "Sterling")
ALBION — Painter & Franklin ("Painter & Frank")
BATAVIA—Newton Wagon Co. ("Newton")
CHICAGO—**INTERNATIONAL HARVESTER** Co. of America ("Bettendorf," "Columbus," "Weber," "Steel King," "Sterling," "Buckeye"), 230 Harvester bldg. (See adv. index, end of book)
Schuttler, Peter Co. ("Schuttler")
DIXON—Grand Detour Plow Co.
MOLINE—Moline Plow Co.
Moline Wagon Co.
Pekin Wagon Co.
OTTAWA—King & Hamilton Co. ("Ottawa")
PEORIA—Avery Co. ("Peoria", "Avery")
QUINCY—Electric Wheel Co. ("Electric")
Knapheide Wagon Co. ("Knapheide")
SPRINGFIELD—Fetzer, Wm. Co.
Racine-Sattley Co. (Racine)
STERLING—Bassett, E. C.

### INDIANA.

ANDERSON—Rhoads, Samuel H. ("Rhoads")
CORYDON—Keller Mfg. Co. ("Corydon")
EVANSVILLE—Karges Wagon Co. ("Karges")
FORT WAYNE—Olds Wagon Works ("Olds")
HUNTINGBURG — Huntingburg Wagon Works ("Huntingburg")
LAFAYETTE—Indiana Wagon Co. ("Indiana," "O'Brien")
SOUTH BEND—Birdsell Mfg. Co. ("Birdsell")
Hunt Bros. Mfg. Co.
Studebaker Corp. ("Studebaker")
TERRE HAUTE—Wabash Mfg. Co.

### IOWA.

BURLINGTON—Burg Wagon Co. ("Burg")
Orchard City Wagon Co. ("Orchard City")
CLINTON—Fish Bros. Mfg. Co. ("Fish Bros.," "La Belle")
DAVENPORT—Davenport Wagon Co.
DUBUQUE—Cooper, A. A. Wagon & Buggy Co. ("Columbus," "Cooper")
FAIRFIELD—Turney, Joel & Co. ("Charter Oak")
LANSING—Rud, L. O. & Co. ("Rud")
PELLA—Buerkens Mfg. Co. ("Buerkens")
SHENANDOAH—Iowa Wagon Co. ("Iowa")

### KENTUCKY.

HICKMAN—Hickman Wagon Co.
HOPKINSVILLE—Mogul Wagon Co.
LOUISVILLE — Kentucky Wagon Mfg. Co. ("Kentucky," "Old Hickory," "Tennessee")
OWENSBORO—Owensboro Wagon Co. ("Owensboro")

### MICHIGAN.

FLINT—Flint Wagon Works ("Flint")
GRAND RAPIDS—Belknap Wagon Co. ("Belknap")
HILLSDALE—Hillsdale Truck & Wagon Co.
HOLLY—Patterson Mfg. Co. ("Holly")
LANSING—Lansing Wagon Works
MOUNT CLEMENS—Donaldson Bros. ("Donaldson")
SAGINAW—Farmers' Handy Wagon Co. ("Original" Low-Down)

### MINNESOTA.

LAKE CITY—Neal, Johns & Co. ("Lake City")
MINNEAPOLIS—Keller Mfg. Co. ("Keller")
Lenhart Wagon Co. ("Lenhart")
WINONA — Winona Wagon Co. ("Rushford," "Winona")

### MISSISSIPPI.

DURANT—Love Wagon Co.
LAUREL—Lindsey Wagon Co. ("Lindsey")

### MISSOURI.

CARROLLTON — Brocksmith Bros. ("Brocksmith")
EDINA—Miller Wagon Co. ("Miller")
FARMINGTON—Lang & Bro. Mfg. & Merc. Co.
HANNIBAL—Hannibal Wagon Co. ("Lang")
KANSAS CITY—Beggs Wagon Co. ("Beggs")
ST. LOUIS—Gestring Wagon Co.
Linstroth Wagon Co. ("Linstroth")
Luedinghaus-Espenschied Wagon Co. ("Luedinghaus")
Luking, John F.
Weber & Damme Wagon Co.
SPRINGFIELD — Springfield Wagon Co. ("Springfield")

### NEW YORK.

CANASTOTA—Watson Wagon Co.
HOLLAND—Tanner, D. F.
HOOSICK FALLS—Wood, Walter A. Mowing & Reaping Machine Co.
ITHACA—Williams Bros. ("Ithaca")
MORAVIA—Cady, Geo. S. & Co. ("Walker")
OLEAN—New Conklin Wagon Co. ("New Conklin")
OSWEGO—Champion Wagon Co.

### NORTH CAROLINA.

HICKORY—Piedmont Wagon Co. ("Hickory")
WINSTON SALEM — Nissen, Geo. E. & Co. ("Nissen")

### OHIO.

CINCINNATI—Bode Wagon Co. ("Bode")
DEFIANCE—Turnbull Wagon Co. ("Turnbull")
MARIETTA—Ohio Valley Wagon Co. ("Marietta")
TIFFIN—Tiffin Wagon Co. ("Tiffin")
TOLEDO—Milburn Wagon Co. ("Milburn")
TROY—**TROY WAGON WORKS CO.** ("Troy"), 100 East Race. (See adv. index, end of book)
ZANESVILLE—Brown Mfg. Co. ("Brown")

### PENNSYLVANIA.

BROOKVILLE—Brookville Mfg. Co. ("Brookville")
COLUMBIA — Columbia Wagon Co. ("Columbian")
ELIZABETHVILLE — Swab Wagon Co. ("Swab")
EMIGSVILLE—Acme Wagon Co. ("Acme")
OIL CITY—Kramer Wagon Co. ("Oil City")

### TENNESSEE.

CHATTANOOGA — Chattanooga Wagon Co. ("Chattanooga")
MEMPHIS — James & Graham Wagon Co. ("James & Graham")

### TEXAS.

BRENHAM — Schuerenberg, F. W. (Est. of) ("Schuerenberg")

### VIRGINIA.

LYNCHBURG—Thornhill Wagon Co. ("Thornhill")
MARION—Look & Lincoln ("Look & Lincoln")
SOUTH BOSTON—Virginia Wagon Co.

### WEST VIRGINIA.

MARTINSBURG — Auburn Wagon Co. ("Auburn")

### WISCONSIN.

FOND DU LAC—Sweet, B. F. & H. L. Co.
FORT ATKINSON — Northwestern Mfg. Co. ("Northwestern")
GRAND RAPIDS — MacKinnon, F. Mfg. Co. ("MacKinnon")
JEFFERSON—Vaughn Mfg. Co. ("Jefferson")
KENOSHA—Bain Wagon Co. (Ltd.) ("Bain")
LA CROSSE—Smith Mfg. Co. ("La Crosse," "Smith")
MADISON—Fuller & Johnson Mfg. Co. ("Badger," Fuller & Johnson," "Madison")
OSHKOSH—Streich, A. & Bro. Co. ("Streich")
RACINE—Fish Bros. Wagon Co. ("Fish Bros.")
Mitchell & Lewis Motor Co. (Ltd.) ("Mitchell")
Racine-Sattley Co. ("Racine")
RANDOLPH—Randolph Wagon Works ("Randolph")
STOUGHTON—Mandt Wagon Co. ("Mandt")
Stoughton Wagon Co. ("Stoughton")

## 12869a—Wagons (Farm, Electric)

**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)

## 12870—Wagons (Freight, Teaming, Etc.)

Akron-Selle Co., Akron, Ohio
Auburn Wagon Co., Martinsburg, W. Va.
Bain Wagon Co. (Heavy), Kenosha, Wis.
Fish Bros., Wagon Co., Racine, Wis.
Haywood Wagon Co. (Heavy Machinery), Newark, N. Y.
Hillsdale Truck & Wagon Co., Hillsdale, Mich.
**INTERNATIONAL HARVESTER CO.** of America, 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Knapheide, Henry Wagon Co., Quincy, Ill.
Leonhardt Wagon Mfg. Co., Baltimore, Md.
Milburn Wagon Co., Toledo, O.
Racine-Sattley Co. (Depot Drays), Racine, Wis., & Springfield, Ill.
Schuttler, Peter Co., 2509 W 22d, Chicago, Ill.
Streich, A. & Bro. Co., Oshkosh, Wis.
Studebaker Corp., South Bend, Ind.
**TROY WAGON WORKS ("Troy"),** 100 East Race, Troy, O. (See adv. index, end of book)
Watson Wagon Co., Canastota, N. Y.

## 12871—Wagons (Garbage)

Briggs Labor Saving Specialty Co., Waterloo, Iowa
Columbia Wagon Co., Columbia, Pa.
Glen Wagon Co. ("Star"), Seneca Falls, N. Y.
Haywood Wagon Co. (Steel & Wooden), Newark, N. Y.
Holzbog, Geo. H. & Bro. (Oderless, all Steel), Jeffersonville, Ind.
Leonhardt Wagon Mfg. Co., Baltimore, Md.
Shadbolt Mfg. Co. (Dumping), 68 Flushing av, Brooklyn, N. Y.
Streich, A. & Bro. Co., Oshkosh, Wis.
Studebaker Corp., South Bend, Ind.
**TROY WAGON WORKS CO. ("Troy"),** 100 East Race, Troy, Ohio. (See adv. index, end of book)
Watson Wagon Co., Canastota, N. Y.

## 12872—Wagons (Grading)

Briggs Labor Saving Specialty Co. (Rear End), Waterloo, Iowa
Glen Wagon Co. ("Star"). Seneca Falls, N. Y.
**JACKSON MFG. CO., 50 Church,** New York. (See adv. index & branch offices, end of book)
Watson Wagon Co., Canastota, N. Y.

## 12872a—Wagons (Handy)

**TROY WAGON WORKS CO. ("Troy"),** 100 East Race, Troy, O. (See adv. index, end of book)

## 12873— Wagons (Hose)

Akron-Selle Co., Akron, Ohio
Seagrave Co., Columbus, O.
Stewart, A. F. & S. C., Rochester, N. Y.
Webb Motor Fire Apparatus Co. (Automobile), Vincennes, Ind.

## 12874— Wagons (Ice)

Akron-Selle Co., Akron, O.
Hillsdale Truck & Wagon Co., Hillsdale, Mich.
Keystone Vehicle Co., Reading, Pa.
Leonhardt Wagon Mfg. Co., Baltimore, Md.
Milburn Wagon Co., Toledo, O.
Streich, A. & Bro. Co., Oshkosh, Wis.
Studebaker Corp., South Bend, Ind.

## 12875—Wagons (Larry Coke)

Niles Mine & Mill Supply Co., Cleveland, O.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.

## 12876—Wagons (Laundry)

Akron-Selle Co., Akron, Ohio
Armleder, O. Co., Cincinnati, O.
Koenig & Luhrs Wagon Co., Quincy, Ill.
Leonhardt Wagon Co., 412 E Saratoga, Baltimore, Md.
Milburn Wagon Co., Toledo, O.

## 12877—Wagons (Logging)

Diamond Iron Works ("Diamond" Roll-Off), Minneapolis, Minn.
**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)
Fish Bros. Wagon Co., Racine, Wis.
Florence Wagon Works, Florence, Ala.
Haywood Wagon Co. (Heavy), Newark, N. Y.
Hillsdale Truck & Wagon Co., Hillsdale, Mich.
**INTERNATIONAL HARVESTER CO.** of America, 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Leonhardt Wagon Mfg. Co., Baltimore, Md.

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Lindsey Wagon Co. (Eight Wheels, etc.), Laural, Miss.
Luedinghous-Espenschied Wagon Co., 1715 N B'way, St. Louis, Mo.
Meriden Wagon Factory, Meriden, Miss.
Milburn Wagon Co., Toledo, O.
Phoenix Mfg. Co., Eau Claire, Wis.
Racine-Sattely Co., Racine, Wis., & Springfield, Ill.
Roesch, Fred, Little Rock, Ark.
Schuttler, Peter Co., 2509 W 22d, Chicago, Ill.
Schwartz, Jos. Co. (Ltd.), New Orleans, La.
Studebaker Corp., South Bend, Ind.
**TROY WAGON WORKS CO. ("Troy")**, 100 E Race, Troy, O. (See adv. index, end of book)
White Hickory Wagon Mfg. Co., East Point, Ga.

## 12878—Wagons (Lumber)

Curtis & Co. Mfg. Co. (Steel Wheel Short Turn), St. Louis, Mo.
Florence Wagon Works, Florence, Ala.
Fort Smith Wagon Co., Fort Smith, Ark.
Leonhardt Wagon Mfg. Co., 412 E Saratoga, Baltimore, Md.
Milburn Wagon Co., Toledo, O.
Streich, A. & Bro. Co. (Also Roll-Off Lumber Wagons), Oshkosh, Wis.
Sweet, B. F. & H. L. ("Sweet's" Patent), Fond du Lac, Wis.
Williams Bros., Ithaca, N. Y.

## 12879—Wagons (Lunch)

Akron-Selle Co., Akron, Ohio
Racine-Sattley Co., Racine Wis., & Springfield, Ill.

## 12880—Wagons (Milk)

Racine-Sattley Co., Racine Wis., & Springfield, Ill.
Tierney, Patrick Co., New Rochelle, N. Y.

## 12881—Wagons (Oil & Pipe)

**INTERNATIONAL HARVESTER CO.** of Amerkica ("Weber"), 230 Harvester bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 12881a—Wagons (One-Horse)

**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
**TROY WAGON WORKS CO. ("Troy")**, 100 E Race, Troy, O. (See adv. index, end of book)

## 12882—Wagons (Ore, Coal & Mining)

Akron Cultivator Co. (Steel), Akron, O.
Bettendorf Axle Co. (Steel Gear, Coal, Farm, etc.), Davenport, Iowa
Briggs Labor Saving Specialty Co. (Coal), Waterloo, Iowa
Connellsville Machine & Car Co. (Pit), Connellsville, Pa.
Hillsdale Truck & Wagon Co. (Coal Only), Hillsdale, Mich.
Honhorst, Joseph Co. (Coal), Cincinnati, O.
**JACKSON MFG. CO. (Steel), 50** Church, New York, & Harrisburg, Pa. (See adv. index, end of book)
Leonhardt Wagon Mfg. Co., Baltimore, Md.
Milburn Wagon Co., Toledo, O.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Schuttler, Peter Co., 2509 W 22d, Chicago, Ill.
Studebaker Corp., South Bend, Ind.
Turl's, John Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Watson Wagon Co., Canastota, N. Y.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12883—Wagons (Police & Fire Patrol)

Akron-Selle Co., Akron, Ohio
Fulton & Walker Co., 20th & Filbert, Phila., Pa.
Leonhardt Wagon Mfg. Co., Baltimore, Md.
Seagrave Co., Columbus, Ohio
Stewart, A. F. & S. C., Rochester, N. Y.
Studebaker Bros. Mfg. Co., South Bend, Ind.

## Wagons (Road Oiling)

(See Road Oilers or Distributers)

## 12884—Wagons (Scavenger)

Streich, A. & Bro. Co., Oshkosh, Wis.

## 12885—Wagons (School)

Akron-Selle Co., Akron, Ohio

## 12886—Wagons (Self-Dumping)

Glen Wagon Co. ("Star"), Seneca Falls, N. Y.
Haywood Wagon Co. (Steel or Wooden), Newark, N. Y.
Indiana Road Machine Co., Fort Wayne, Ind.
**JACKSON MFG. CO., 50 Church,** New York. (See adv. index & branch offices, end of book)
Watson Wagon Co., Canastota, N. Y.

## 12886a—Wagons (Spreading, Road Building)

**TROY WAGON WORKS CO., 100 E** Race, Troy, N. Y. (See adv. index, end of book)

## 12887— Wagons (Stave)

Strait, H. N. Mfg. Co., Kansas City, Kans.

## 12888— Wagons (Steel)

**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)
**JACKSON MFG. CO., 50 Church,** New York, & Harrisburg, Pa. (See adv. index, end of book)
McCallum Steel Wagon Co., Plymouth, Ind.
MacKinnon, F. Mfg. Co. ("Steel King" Bottom Dump), Grand Rapids, Wis.
Shunk Plow Co. (Farm Wagons), Bucyrus, O.
Thompson-Breese Co. ("Bruner" Pressed Steel), Wapakometa, O.

## 12889—Wagons (Stone)

Steam Stone Cutter Co. (For Quarries or Heavy Stone Hauling), Rutland, Vt.
Watson Wagon Co., Canastota, N. Y.

## 12890—Wagons (Stone Spreading)

Haywood Wagon Co. (Steel or Wooden), Newark, N. Y.

## 12891—Wagons (Sugar)

**ELECTRIC WHEEL CO. (Also Sugar Cane** Carts), Quincy, Ill. (See adv. index, end of book)
Leonhardt Wagon Mfg. Co., Baltimore, Md.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Sheffield Car Co., Three Rivers, Mich.
Turl's, John Sons (Inc.), 26 Courtlandt, New York. Works, Newburgh, N. Y.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
**ERNST WIENER COMPANY**
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 12892— Wagons (Tank)

Bollwerk, H. & Bro. (Square Tank), St. Louis, Mo.

## 12893—Wagons (Trolley)

(See also Wagons, Trouble)

Anderson, W. H. Tool & Supply Co. (Pole Rising), Detroit, Mich.
Briggs Carriage Co., Amesbury, Mass.
Leonhardt Wagon Mfg. Co., 412 E Saratoga, Baltimore, Md.
McCardell, J. R. & Co. ("Trenton"), Trenton, N. J.
Milburn Wagon Co., Toledo, O.
Winona Wagon Co., Winona, Minn.

## 12894—Wagons (Trouble)

(See also Wagons, Trolley)

Chase Motor Truck Co. ("Chase" Gasoline), Syracuse, N. Y.
McIntyre, W. A. Co. ("McIntyre" Gasoline), Auburn, N. Y.
Randolph Motor Co. ("Randolph" Gasoline), Chicago, Ill.
Schacht Motor Car Co. ("Schacht" Gasoline), Cincinnati, O.

## 12894a—Wagons (Undertakers')

Akron-Selle Co., Akron, Ohio

## 12895—Wagons (Wire Nail)

Howe Scale Co., Rutland, Vt.

## 12896— Wall Boards

(See also Plaster Boards, Slabs, Etc.)

Beaver Co. ("Beaver" Finished, Indurated & Fireproof), Buffalo, N. Y.
Heppes Co. ("Utility" Firous, Waterproof), 4503 Fillmore, Chicago, Ill.
Mastic Wall Board & Roofing Mfg. Co. ("Bishopric"), Cincinnati, O.
Sackett Plaster Board Co. ("Sackett's"), 17 Battery pl, New York
Van Dyck Panel Co. (Wood Pulp), 50 Church, New York

## 12897a—Wall Burlaps & Canvas

(See Wall Coverings)

## 12897b—Wall Coping Mfrs.

(See Sewer Pipe Manufacturers; also Terra Cotta, Architectural)

## 12898— Wall Coverings

**BERGER MFG. CO. (Ferro-Tile),** Canton, O. (See adv. index & branch offices, end of book)
Chase, L. C. &o Co. ("Standard" Leather Substitute), 89 Franklin, Boston, Mass.
Cot-A-Lap Co. (Burlaps & Canvas), New Haven, Conn.
Grimond, J. & A. D., Ltd. (H. N. Gildea, Agent) (Burlaps), 309 B'way, New York
Lloyd, W. H. S. Co. ("Salamander"), Fire Proof), 105 W 40th, New York
Richter Mfg. Co. ("Tapestrolea" Burlaps & Canvas), Tenafly, N. J.
Sanitile Co. ("Washable"), 316 Broadway, New York, N. Y.
Standard Oil Cloth Co. ("Sanitas" Washable), 320 B'way, New York
Trenton Oil Cloth & Linoleum Co., Trenton, N. J.
Turner, J. Spencer Co. (Burlaps & Canvas), 86 Worth, New York
Wemple, Jay O. Co. ("Royel" Burlaps & Canvas), 35 E 20th, New York
Wiggins, H. B. Sons Co. ("Fab-Ri-Ko-Na"), Bloomfield, N. J.

## 12899— Wall Finish

Alabastine Co. ("Alabastine"), Grand Rapids, Mich.
American Soapstone Finish Co. (Soapstone), Chester Depot, Vt.
Anti-Kalsomine Co., Grand Rapids, Mich.
Boydell Bros. White Lead & Color Co. ("Sotone", "Washable", For Walls, Radiators, Ceilings, Wood, Metal, etc.), Detroit, Mich.
Cardiff Gypsum Plaster Co. ("Kallolite"), Fort Dodge, Iowa
Casein Co. of America ("Indurine"), 5 Nassau, New York
**FOX, M. EWING & CO. ("Calcimines", "Muralite", "Calcitine", Hot & Cold Water)**, 240 E 136th, New York. (See adv. index, end of book)
Keystone Plaster Co. (Hard White & Sand Finish), Sales Office, Perry bldg, Phila, Pa.
Lawrence, W. W. & Co. ("Law-Re-Mo" Cold Water & Dresden Flat Finish), Pittsburg, Pa.
Manhattan Color Works ("Fres-Ko-Kote"), 197 Amsterdam av, New York
Moore Benjamin & Co. ("Muresco"), 231 Front, Brooklyn, N. Y.
Muralo Company ("Calcimo"), New Brighton, Boro. of Richmond, N. Y.
National Mortar & Supply Co., Pittsburg, Pa.
Ohio & Western Lime Co. ("Lion" Brand Rock Wall Finish), Toledo, O.
Pierce, F. O. Co. ("Sancota"), 12 W B'way, New York
St. Paul White Lead & Oil Co. ("Lion"), St. Paul, Minn.
Shoemaker, Robert & Co. (Encaustic Compound), 4th & Race, Phila., Pa.
Troy Cold Water Kalsomine Co., Troy, N. Y.

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**TRUSSED CONCRETE STEEL CO.** (Kahn System), Detroit, Mich. (See adv. index for branch offices, end of book)
United States Gypsum Co. (Lime & Cementus), 200 Monroe, Chicago, Ill., & Cleveland, O.
Whittaker, W. H. ("Continental"), 245 Front, New York
Woodville Lime & Cement Co. (White Enamel, Toledo, O.
Wotherspoon Plaster Mills, 1170 B'way, New York
Yarnall Paint Co. ("Marbloid," Washable), Frankford, Phila, Pa.

## 12900—Wall Paper (Fire-Proof)

Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa. Works, Valley Forge, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York

## 12901—Wall Paper Mfrs.

**Allen-Higgins Co., Worcester, Mass.**
**Art Wall Paper Mills, 1005 W 21st, Chicago, Ill.**
**Audebert Wall Paper Mills, 218 Lasalle, Chicago, Ill.**
**Bailey Wall Paper Co., Cleveland, O.**
**Beck, F. & Co., 206 W 29th, New York**
**Becker, Smith & Page (Inc.), Snyder av & S Water, Phila., Pa.**
**Birge, M. H. & Sons Co., Buffalo, N. Y.**
**Bosch, Henry Co., 892 B'way, New York**
**Campbell, Wm. Wall Paper Co., Hackensack, N. J.**
Carey Bros. Co., 1023 Filbert, Phila., Pa.
**Cecil Paper Co. (Hanging Papers), York, Pa.**
**Chicago Wall Paper Mills, 47 S Jefferson, Chicago, Ill.**
**Emerson-Remsen Co., Hoboken, N. J.**
**Geneva Wall Paper Co., Geneva, N. Y.**
**Gledhill Wall Paper Co., 543 W 34th, New York**
**Graves, Robert Co., 483 5th av, New York**
**Hobbs, Benton & Heath, Hoboken, N. J.**
**Illinois Wall Paper Co., Chicago, Ill.**
**Imperial Wall Paper Co., Glens Falls, N. Y.**
**Kayser & Allman, Phila., Pa.**
Janeway & Carpenter, New Brunswick, N. J.
**Janeway & Co., New Brunswick, N. J.**
**Mairs, W. H. & Co., 68 Sackett, Brooklyn, N. Y.**
**Maxwell, S. A. & Co., 121 Crosby, New York**
**Peats, Alfred Co., 41 E 14th, New York**
**Pittsburg Wall Paper Co., New Brighton, Pa.**
**Potter Wall Paper Mills, Hoboken, N. J.**
**Rose, Richard, Beverly, N. J.**
**Quaker City Wall Paper Co., E Thompson & E Westmoreland, Phila., Pa.**
**Standard Wall Paper Co., Sandy Hill, N. Y.**
**Star Wall Paper Mills, Joliet, Ill.**
**Strahan, Thos. Co., Chelsea, Mass.**
Sun Wall Paper Co., Reading, Pa.
Standard Wall Paper Co., Hudson Falls, N. Y.
**Thibaut, Richard E. (Inc.), 48 E 13th, New York**
**Thomas, Jacob Co., Newark, Del.**
**Trudgen, Wm. H., Bristol, Pa.**
Vornhold Wall Paper Co., Phila., Pa.
**Wallace Wall Paper Co., Cortland, N. Y.**
**York Card & Paper Co., York, Pa.**
**York Wall Paper Co., York, Pa.**

## 12902—Wardrobes (Office)

**Hofman, John Co., Rochester, N. Y.**
**Sargent Mfg. Co., Muskegon, Mich.**

## 12902a—Wardrobes (Steel, Fireproof)

**DAHLSTROM METALLIC DOOR CO.** (Hollow Metal), Jamestown, N. Y. (See adv. index & branch offices, end of book)
**TERRELL'S EQUIPMENT CO., Grand** Rapids, Mich. (See adv. index, end of book)

## 12903—Wardrobes (Ventilated, School & Hotel)

**BERGER MFG. CO., THE, Main Office & Works, Canton, O.** (See adv. index & branch offices, end of book)
**BOLLES, J. E. IRON & WIRE** Works, Detroit, Mich. (See adv. index, end of book)
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
Grant Pulley & Hardware Co. ("Flexifold"), 3 W 29th, New York
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**MERRITT & CO., 94 Arch, Camden,** N. J. (See adv. index, end of book)
Pirkl, John Iron Works (Inc.) (Steel), 240 N 10th, Brooklyn, N. Y.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**WILSON, JAS. G. MFG. CO. Chief** Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

## Wash Trays (Porcelain)

(See Bath Tubs, Porcelain)

## 12904—Washboards Mfrs.

**Acme Washboard Mfg. Co., Indianapolis, Ind.**
American Mfg. & Novelty Co. ("Warren"), Erie, Pa.
Buckman-Wilson Co. ("Capitol", Line), 97 Warren, New York
Globe Mfg. Co., Tiffin, O.
Hooper, J. H., Biddeford, Me.
**Kanneberg Roofing & Ceiling Co. ("Sani-Steel" Sheet Steel), Canton, O.**
Saginaw Mfg. Co., Saginaw, Mich.
**National Washboard Co. (Glass, Metal & Wood), 115 Adams, Chicago, Ill.**
Wabash Screen Door Co., 115 Adams, Chicago, Ill.
Wheeler Screen Co., Geneva, Ill.

## 12905—Washers (Air)

**ARGUTO OILLESS BEARING CO.** ("Arguto"), 149 Berkley, Philadelphia, Pa. (See adv. index, end of book)
Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.
**Carrier Air Conditioning Co. ("Carrier"), 39 Cortlandt, New York**
Kauffman Heating & Eng. Co., St. Louis, Mo.
Narowetz, Louis ("Little Niagara"), 18 W Kinzie, Chicago, Ill.
New York Blower Co. ("Peerless"), 25th pl. & Stewart av, Chicago, Ill.; Works, Bucyrus, O.
**THOMAS & SMITH (Inc.), 116 N Carpenter, Chicago, Ill., & 432 Hudson, New York.** (See adv. index, end of book)
Webster, Warren & Co. ("Webster"), Camden, N. J.
**Zellweger, J. & Sons ("Zellweger"), St. Louis, Mo.**

## 12906—Washers (Air Brake)

**ARGUTO OILLESS BEARING CO.** ("Arguto"), 149 Berkley, Philadelphia, Pa. (See adv. index, end of book)
**BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.** (See adv. index & branch offices, end of book)
Combination Rubber & Belting Co., **Bloomfield,**
Continental Rubber Works, Erie, Pa. **N. J.**
Darling Pump & Mfg. Co., Williamsport, Pa.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
**PENNSYLVANIA RUBBER CO.,** Jeannette, Pa. (See adv. index & branch offices, end of book)
U. S. Indestructible Gasket Co., 50 Church, New York

## 12907— Washers (Axle)

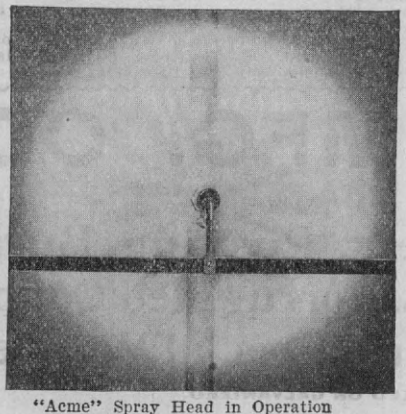
**ARGUTO OILLESS BEARING CO.** ("Arguto"), 149 Berkley, Philadelphia, Pa. (See adv. index, end of book)
Fernold Mfg. Co., North East, Pa.
Sovereign, C. E. Co. (Leather), Rockford, Ill.
Whittlesey's, H. E. Sons ("Keystone" Leather), Corry, Pa.

## 12908—Washers (Basket)

Tower Mfg. Co., Cincinnati, O.

## 12909—Washers (Brass & Copper)

American Iron & Steel Mfg. Co., Lebanon, Pa.
**BARNES, WALLACE CO. (Spring),** Bristol, Conn. (See adv. index, end of book)
Benedict & Burnham Mfg. Co., Waterbury, Conn.
**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
Brass Goods Mfg. Co., cor. Nevin & Union, Brooklyn, N. Y.)
Bridgeport Brass Co., Bridgeport, Conn.
**CHANDLER CO. (Accurate, from** 2-1000 Thickness), Springfield, Mass. (See adv. index, end of book)
Chicago Nut Co., 671 W Jackson boul, Chicago, Ill.
Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hill, Geo. Q. Co. (Brass), 32 Dorchester av, Boston, Mass.
Hobbs Mfg. Co., Worcester, Mass.
**Humphrey, H. W., Unionville, Conn.** York
**HUNGERFORD, U. T. BRASS & COP**per Co. (Mfrs.' Agts.), 497 Pearl, New

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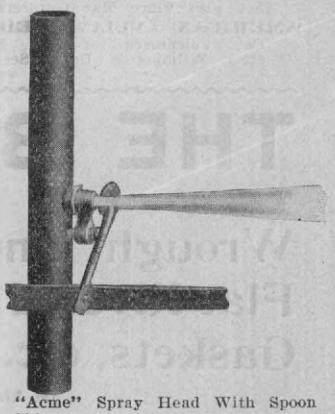
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Hussey, C. G. & Co. (Copper Only), Pittsburg, Pa.
Nicetown Plate Washer Co. (Brass), Nicetown, Phila., Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Rome Brass & Copper Co., Rome, N. Y.
Steele & Johnson Mfg. Co., Waterbury, Conn.
U. S. Indestructible Gasket Co., 50 Church, New York
**VOELKNER & HARRY MANUFAC**turing Co., 282 Woodbridge, E. Detroit, Mich. (See adv. index, end of book)
Waterbury Brass Co., Waterbury, Conn.
Waterbury Mfg. Co. (Brass Only), Waterbury, Conn.

## 12910—Washers (Car Box)

(See Washers, Fibre, Etc.)

## 12911—Washers (Cast Iron)

American Iron & Steel Mfg. Co. (& Spools), Lebanon, Pa.
**BUFFALO FOUNDRY & MACHINE** Co., Buffalo, N. Y. (See adv. index, end of book)
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Cheney, S. & Son, Manlius, N. Y.
Columbus Bolt Works, Columbus, O.
Haskell, W. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Keagy & Lear Machine Co., Coshocton, O.
King & Andrews Co. (Cast Iron), Chicago Heights, Ill.
Lang, M. & Sons, Pittsburg, Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
National Supply Co., 7 W. Lombard, Baltimore, Md.
Nicetown Plate Washer Co., Nicetown, Phila., Pa.
Nordyke & Marmon Co., Indianapolis, Ind.
Payne's Bolt Works, San Francisco, Cal.
Price-Evans Foundry Co., Chattanooga, Tenn.
Richmond Iron Works, Richmond, Va.
South Bend Foundry Co., South Bend, Ind.
South Baltimore Steel Car & Foundry Co., Baltimore, Md.
Stover Mfg. Co., Freeport, Ill.
Upson Nut Co., Cleveland, Ohio
Western Foundry & Sash Weight Co., St. Louis, Mo.

## 12911a—Washers (Draft Pin)

**ALLEGHENY STEEL CO., Farmers'** Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12912—Washers (Elastic)

**AMERICAN VULCANIZED FIBRE Co. (Fibre), Wilmington, Del. (See adv. index, end of book)**

## 12913—Washers (Fibre)

(See also Fibre Manufacturers, Hard)
**AMERICAN VULCANIZED FIBRE** Co. (Vulcanized for Cock, Spigot, Tap, etc.), Wilmington, Del. (See adv. index, end of book)
**ARGUTO OILLESS BEARING CO.** ("Arguto"), 149 Berkley, Philadelphia, Pa. (See adv. index, end of book)
Barwood, L. J. Co., 387 Albany, Boston, Mass.
**CONTINENTAL FIBRE CO. (Cock,** Spigot, Tap, etc.), Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.** (Cock, Spigot, Tap, etc.), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO. (For** All Purposes), Elsmere, Del. (See adv. index, end of book)
Leatheroid Mfg. Co., Kennebunk, Me.
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
Qadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Spaulding, J. & Sons Co. (Hard Fibre), North Rochester, N. H
**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index, & branch offices, end of book)

## 12914—Washers (Friction)

**ARGUTO OILLESS BEARING CO.,** ("Arguto"), 149 Berkley, Philadelphia, Pa. (See adv. index, end of book)
Morgan Spring Co., Worcester, Mass.

## 12915—Washers (Galvanized)

**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
Hubbard & Co., Pittsburg, Pa.
Keystone Nail Co., Pittsburg, Pa.
**NATIONAL BOLT & NUT CO., Pitts**burg, Pa. (See adv. index & branch offices, end of book)
Nicetown Plate Washer Co., Nicetown, Phila., Pa.

## Washers (Gas)

(See Purifiers & Scrubbers, Gas)

## 12916—Washers (Graphite)

Graphite Lubricating Co., Boundbrook, N. J.
International Acheson Graphite Co., Niagara Falls, N. Y.

## 12917—Washers (Insulating)

**AMERICAN VULCANIZED FIBRE** Co., Wilmington, Del. (See adv. index, end of book)
**ARGUTO OILLESS BEARING CO.** ("Arguto"), 149 Berkley, Philadelphia, Pa. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wil**mington, Del. Works, Marshalltown, Del (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Els**mere, Del. (See adv. index, end of book)
Eureka Supply Co. (Fibre Insulators), Camden, N. J.
Fox, Jno. M. & Co. ("Fibrine"), Portland, Me.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)
Leatheroid Mfg. Co., Kennebunk, Me.
Mica Insulator Co., 68 Church, New York
Morley Mfg. Co. ("Milonite," "Perfection," Nails), Boston, Mass.
National Fibre & Insulation Co., Yorklyn, Del.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Parker & Hafner, Williamsport, Pa.
Rhode Island Washer Co., Valley Falls, R. I.
Salem Leather Co., Salem, Mass.
Schoonmaker, Adrian O., 66 Park pl, New York
U. S. Indestructible Gasket Co. (Asbestos), 50 Church, New York
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 12918—Washers (Iron & Steel)

**ACME STEEL GOODS CO., Archer av** & Farrell, Chicago, Ill. (See adv. index & branch offices, end of book)
Aetna Nut Co. (Wrought Iron), Southington, Conn.
**ALLEGHENY STEEL CO. (Round &** Square Steel Plate Washers for Axle, Draft Pin, etc.), Farmers' Bank bldg, Pittsburg, Pa. Works: Brackenridge, Pa. (See adv. index & branch offices, end of book)
American Bolt Co., Birmingham, Ala.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Armstrong & Parker, 361 North, Baltimore, Md.
Avery Stamping Co. (Wrought Steel), Cleveland, O.
**BARNES, WALLACE CO. (Tempered** Spring), Bristol, Conn. (See adv. index, end of book)
Beall Bros. (Inc.) (Wrought), Alton, Ill.
**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
**CHANDLER CO. (Accurate from** 2-1000 Thickness), Springfield, Mass. (See adv. index & branch offices, end of book)
Chisholm Steel Shovel Works (Steel Plate), Cleveland, O.
Cincinnati Screw & Tap Co., Twightwee, O.
Clark Bros. Bolt Co., Milldale, Conn.
Clark, A. N. & Son, Plainville, Conn.
Cleveland Wrought Washer Co. ("Standard", Tire-Bolt, Special, etc.), Cleveland, O.
Cobb & Drew (Small), Plymouth, Mass.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Dietrich Bros., Baltimore, Md.
Eastern Bolt & Nut Co., Providence, R. I.
Falls Clutch & Mach'y Co., Cuyahoga Falls, O.
Graham Nut Co., Pittsburg, Pa.
Greenlie, Wyatt & Co., 499 Water, New York
Griffin Mfg. Co. (Wrought), Erie, Pa.
Hager, C. & Sons Hings Mfg. Co., St. Louis, Mo.
Hall's, Sam'l Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hill, Geo. Q. Co., 32 Dorchester av, Boston, Mass.
Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
Humphrey, H. W., Unionville, Conn.


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Lamson & Sessions Co. (Plate, etc.), Cleveland, O.
Lanman, E. B. Co. (Wrought Iron), Columbus, Ohio
Lanz, Mathew & Sons (Square & Round), Pittsburg, Pa.
McKinney Mfg. Co. (Steel), N S, Pittsburg, Pa.
Meyer & Co., Auburn, N. Y.
**Michigan Bolt & Nut Works, Detroit, Mich.**
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL BOLT & NUT CO.** (Wrought), Pittsburg, Pa. (See adv. index & branch offices, end of book)
**National Mfg. Co. (Wrought Steel), Sterling, Ill.**
**National Supply Co., Baltimore, Md.**
Neely Nut & Bolt Co., Pittsburg, Pa.
New Castle Forge & Bolt Co. (Wrought), New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.
Nicetown Plate Washer Co. (Round or Square), Nicetown, Phila., Pa.
Ohio Shovel & Stamping Co. (Wrought), Canal Dover, O.
**Old Dominion Iron & Nail Works Co., Richmond, Va.**
Oliver Iron & Steel Co. (Wrought), Pittsburg, Pa.
**Parkesburg Iron Co. (Wrought Iron Stamped Washers ¼ to 2½ inches), Parkersburg, Pa.**
**Pawtucket Mfg. Co., Pawtucket, R. I.**
**Payne's Bolt Works (Wrought), San Francisco, Cal.**
Philadelphia Machine Screw Works (Special Size, Any Material), Race & Sheridan, Phila., Pa.
Pittsburg Rivet Co., 38th & R. R., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
**PITTSBURG SHOVEL CO. (Steel),** Oliver bldg, Pittsburg, Pa. Works: Leechburg, Pa. (See adv. index, end of book)
Plymouth Mills (Small), Plymouth, Mass.
Quadriga Mfg. Co., 119 N Canal, Chicago, Ill.
Reed & Prince Mfg. Co., Worcester, Mass.
**Republic Iron & Steel Co., Pittsburg, Pa.**
**Rhode Island Tool Co., Providence, R. I.**
Richards, T. C. Hdw. Co., Winsted, Conn.
**RICHARDS - WILCOX MFG. CO.** (Steel), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y., & Rock Falls, Ill.
**RYERSON, JOS T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
Scranton Bolt & Nut Co., Scranton, Pa.
Sessions, J. H. & Son (Steel), Bristol, Conn.
Smith, Thos. & Co., Worcester, Mass.
Sparks. Withington Co. (Steel), Jackson, Mich.
**STANLEY WORKS (Wrought Steel),** New Britain, Conn. (See adv. index & branch offices, end of book)
Stover Mfg. Co., Freeport, Ill.
Taunton Rivet Co. (Steel), Taunton, Mass.
Union Iron Works, Houston, Texas
Upson Nut Co., Cleveland, O.
**VOELKNER & HARRY MANUFACturing Co.** (Steel Only), 282 Woodbridge E., Detroit, Mich. (See adv. index, end of book)
W. & S. Mfg. Co., Worcester, Mass.
Wilcox, Crittenden & Co., Middletown, Conn.
Wilmington Malleable Iron Co. (Malleable Iron), Wilmington, Del.
Wrought Washer Mfg. Co. (Wrought & Steel Plate of all Kinds), Milwaukee, Wis.

## 12919—Washers (Lead)

**EDWARDS MFG. CO., 545-565 Eggleston av,** Cincinnati, O. (See adv. index & branch offices, end of book)
Emrich, Phil (For Roofers), Cincinnati, O.
Littleford Bros., Cincinnati, O.
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Selby Smelting & Lead Co., San Francisco, Cal.
Tatham & Bros., 261 Water, New York
U. S. Indestructible Gasket Co. (And Alloys), 50 Church, New York
**VOELKNER & HARRY MANUFACturning Co.,** 282 Woodbridge E., Detroit, Mich. (See adv. index, end of book)

## 12920—Washers (Leather)

Auburn Leather Goods Co., Auburn, N. Y.
Barwood, L. J. Co. ("Barwood", Pumps, etc.), Boston, Mass.
Bay State Leather Axle Washer Co., 80 High, Boston, Mass.
Bell, Andrew ("Boss"), Newark, N. J.
Chicago Rawhide Mfg. Co. (Rawhide), 1301 Elston av, Chicago, Ill.
Climax Specialty Co., Ann Arbor, Mich.
Darling Pump & Mfg. Co., Williamsport, Pa.
**DETROIT LEATHER SPECIALTY** Co. (Inc.), Detroit, Mich. (See adv. index, end of book)
Glauber, M. & Co., 10 Christephor, New York
Glauber, Samuel S., 242 E 79th, New York
**Graton & Knight Mfg. Co., Worcester, Mass.**
Goodsell Packing Co. ("New Century"), 117 N Canal, Chicago, Ill.
Hoffeld, R. & Co. (For Axles), 61 Carroll, Buffalo, N. Y.
Houghton, E. F. & Co. ("Vim"), 240 W Somerset, Phila., Pa.
Jenkins Bros., 71 John, New York
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
Kendrick Valve & Washer Co., Syracuse, N. Y.
Marston, I. G. & Co., Boston, Mass.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
National Leather Mfg. Co., Niles, Mich.
New Process Raw Hide Co., Syracuse, N. Y.
New York Washer Works, 98 Morton, New York
Nott, W. S. Co., Minneapolis, Minn.
**Page Belting Co., Concord, N. H.**
**Providence Belting Co.,** ("Champion" Sole Leather), Providence, R. I.
Rockford Leather Washer Co., Rockford, Ill.
Solid Leather Washer Mfg. Co. (Axle & Mechanical), Newark, N. J.
Sovereign, C. E. Co., (All kinds, up to 10 in. Diameter), Rockford, Ill.
**VOELKNER & HARRY MANUFACturing Co.,** 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)
Whittlesey's, H. E. Sons, Corry, Pa.

## 12921—Washers (Lock)

**Boston Bolt & Iron Co., 40 Farnsworth, Bos-**
Hobbs Mfg. Co., Worcester, Mass. **ton, Mass.**
National Lock Washer Co., 65 Johnson, Newark, N. J.
Positive Lock Washer Co., Newark, N. J.
Riverside Steel Spring Co. ("Risco," "National," "Positive," "Verona"), **Riverside, N. J.**
United States Whip Co., Westfield, Mass.
**Verona Tool Works, Pittsburg, Pa., & Verona,** Whittlesey's, H. E. & Sons, Corry, Pa. Pa.

## Washers (Milk Can)

(See Machines, Milk Can Washing)

## 12922—Washers (Name Plate)

Volverine Brass Works, Grand Rapids, Mich.

## 12923—Washers (Nickle Plated)

**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
Springfield Machine Screw Co., Springfield, Mass.
U. S. Indestructible Gasket Co., 50 Church, New York

## 12924—Washers (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2200 Wash'n av., Phila., Pa.

## 12925—Washers (Plumbers')

**AMERICAN VULCANIZED FIBRE** Co. (Vulcanized Fibre), Wilmington, Del. (See adv. index, end of book)
**BERNZ, OTTO, 21 Ashland av, Newark, N. J.** (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.,** Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere, Del.** (See adv. index, end of book)
Frost Mfg. Co. (Brass), Kenosha, Wis.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Grabler Mfg. Co. (Basin Cock, etc.), Cleveland, O.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
National Fibre & Insulation Co., Yorklyn, Del.
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)
Plume & Atwood Mfg. Co. (Brass, etc.), Waterbury, Conn.
**PENNSYLVANIA RUBBER CO.** (Rubber Bibb, Waste, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)
Rhode Island Washer Co., Valley Falls, R. I.
Smith, E. L. & Co., Boston, Mass.
U. S. Indestructible Gasket Co., 50 Church, New York
Wolverine Brass Works (Nickel Plated), Grand Rapids, Mich.
Woodward & Wanger ("Flexo" Bibb), 625 Cherry, Phila., Pa.

## 12926—Washers (Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
**BOSTON BELTING CO., 260 Devonshire,** Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co. Cambridge,
**Canfield, H. O. Co., Bridgeport, Conn. Mass.**
Combination Rubber & Belting Co. ("Boss"), Bloomfield, N. J.
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Goodyear Rubber Co., 787 B'way, New York
Gutta Percha Rubber & Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Hartford Rubber Works Co., Hartford, Conn.
**HOME RUBBER CO., Trenton, N. J.** (See adv. index & branch offices, end of book)
Manhattan Rubber Mfg. Co., Passaic, N. J.
Marston, I. G. & Co. (Machine Cut), Boston, Mass.
Mechanical Rubber Co., 73 Reade, New York.
Morgan & Wright (Inc.), Detroit, Mich.
Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.
**N. J. Car Spring & Rubber Co., Jersey City, N. J.**
**New York Belting & Packing Co. (Ltd.), 91 Chambers, New York**
**NEW YORK RUBBER CO., Reade &** Church, New York. (See adv. index, end of book)
**PENNSYLVANIA RUBBER CO., Jeannette, Pa.** (See adv. index & branch offices, end of book)
Quaker City Rubber Co., 629 Market, Phila., Pa.
Revere Rubber Co., Boston, Mass.
Schacht Rubber Mfg. Co., Huntington, Ind.
Thermoid Rubber Co., Trenton, N. J.
Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

## 12927—Washers (Special Sizes, Any Material)

**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
**PHILADELPHIA MACHINE SCREW** Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)

## 12927a—Washers (Spring)

**BARNES, WALLACE CO., Bristol,** Conn. (See adv. index, end of book)

## 12928—Washers (Square)

**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
**PITTSBURGH RIVET CO., 38th &** R. R., Pittsburg, Pa.

## 12929—Washers (Street & Hydrant)

Hays Mfg. Co., Erie, Pa.
Kupferle, John C. Foundry Co., St. Louis, Mo.
McCormick Mfg. Co., Dayton, O.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

## 12930—Washers (Tin)

**BETTCHER MFG. CO., Clark av. at** C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
**Humphreys, H. W. (Carpet, etc.), Unionville, Conn.**

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National Sheet Metal Co. (Also Brass & Nickel Tin & Zinc), Peru, Ill.
U. S. Indestructible Gasket Co., 50 Church, New York
**VOELKNER & HARRY MANUFACturing Co., 282 Woodbridge E, Detroit, Mich. (See adv. index, end of book)**

## 12931—Washers (Tumbler)

Bishop - Babcock - Becker Co. ("Canton" & "Lightning"), Cleveland, O.
Rowe, L. L., 72 Portland, Boston, Mass.
Whiteman Mfg. Co. ("Lightning"), Canton, O.

## 12932—Washers (Vehicle)

Ardrey Vehicle Washer Co., Rochester, N. Y.
**BETTCHER MFG. CO., Clark av. at C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)**
Ideal Carriage Washer Co. ("Ideal" Overhead Revolving Hose Arms & Nozzle), Rochester, N. Y.
Nunn Brass Works ("Ford"), Rochester, N. Y.
Ryan & Long ("Perfection," Overhead), Appleton, Wis.
Smith, I. J. Mfg. Co. ("Irving," Overhead), 4283 Park av, New York
Star Brass Works ("Star"), 1911 Fulton, Chicago, Ill.
Vehicle Specialty Co. ("Excelsior," Revolving Overhead, "No. 2 Superior," Illuminating Overhead), Hartford, Conn.

## 12933—Washers (Wire)

Raymond Mfg. Co., Corry, Pa.

## 12934—Washers (Wooden)

Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York

## 12935—Washers (Wool Felt)

Booth, N. E., 642 Pacific, Brooklyn, N. Y.

## 12936—Washers (Wrought Iron & Steel)

(See Washers, Iron & Steel)

## Washers & Burrs (Brass & Copper)

(See Washers, Brass & Copper)

## 12937—Washing Machines

Adams Laundry Machinery Co., Troy, N. Y.
Adams Washer Co. (Hand & Motor), Kansas City, Mo.
American Laundry Machinery Mfg. Co., 80 Franklin, Chicago, Ill.
American Mfg. Co., Arlington Heights, Cincinnati, O.
American Motor Washer Co. ("American", Motor Driven), Detroit, Mich.
American Washer Co. ("Jewel" Electric), 128 Sidney, St. Loius, Mo.
American Wooden Ware Mfg. Co. ("Everybody's" Rotary, "Toledo" Rotary, "American" Rotary, "Western", "Run-Easy", "Monarch" Rotary & Electric Motor), Toledo, O.
At Last Washer Co. ("At Last"), Perry, Ia.
Automatic Electric Washer Co. (Electric), Newton, Ia.
Barlow & Seeling Mfg. Co., Ripon, Wis.
Bates, D. L. & Bro. Co. ("Ladies Friend," Water Power), Dayton, O.
Baughman, N. C. ("New Miller"), York, Pa.
Blackstone Mfg. Co. ("American", "Union", 'Blackstone", "Challenge", "Chautauqua", "Sun", "Western", "Pan American", "Western-Defender"), Jamestown, N. Y.
Boss Washing Machine Co. ("Banner", "Banner Rotary", "Boss Rotary", "Champion", "Cincinnati Western", "Dietz", "Improved Globe", "New Standard", "Uneeda American", "X-L"), Cincinnati, O.
Brammer, H. F. Mfg. Co. ("B. B." "Brammer" "Columbia," "Columbia Toy," "Great Western," "O. J. C.," "Original Brammer," "Peacemaker," "Snow E. White," "Schroeder," "Flyer," "Speedy"), Davenport, Ia.
Brown, M. & Co. ("United States"), Wapakoneta, O.
Buckeye Churn Co. ("Buckeye", "Hero", "Queen"), Sidney, O.
Conkling Co. (Motor Driven), 96th & Erie av, Chicago, Ill.
Dexter Mfg. Co., Dexter, Ia.
Dietz, Jno. Mfg. Co. ("Dietz" Rubbard, Electric & Water Power), Cincinnati, O.
Drumm, Manuel ("Champion," "Drumm's Best"), Tipton, Mo.
Galesburg Cornice Works ("Rapid"), Galesburg, Ill.
**GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)**
Glascock Bros. Mfg. Co. ("Handy," "New Era"), Muncie, Ind.
Globe Mfg. Co. ("Quicker Yet"), Perry, Ia.
Harvey, W. W. & Son, Constantine, Mich.
Hiawatha Mfg. Co. ("Steel King" Ball Bearing), Hiawatha, Kan.
Horton Mfg. Co. ("American," "Globe," "Horton," "Spinner," "Wayne," "Western"), Fort Wayne, Ind.
Howe, A. D. Machine Co. (Water Power), Wheeling, W. Va.
Huelfeld, E. H. Co. (Inc.), ("Royal"), Cincinati, O.
Hurley Machine Co. ("Thor Electric" Washer & Wringer), 39 S Clinton, Chicago, Ill.
Illinois Pump & Brass Co. ("Monday Morning," Motor Power), Peoria, Ill.
Irwin, H. R. Mfg. Co. (Springless), Cincinnati, O.
Jensen Mfg. Co., Palmyra, N. J.
Keller Mfg. Co. ("Santo" Electric & Hand), 21st & Allegheny av, Phila., Pa.
Maytag Co. ("Pastime"), Newton, Ia.
Michigan Washing Machine Co. ("Guarantee," "Peerless"), Muskegon, Mich.
Nineteen Hundred Washer Co. ("Nineteen Hundred," Hand & Electric), Binghamton, N. Y.
One Minute Mfg. Co. ("One Minute"), Newton, Iowa
Paragon Mfg. Co. ("Paragon" Revolving Cylinder Motor Driven), 3609 S Ashland av, Chicago, Ill.
Portland Mfg. Co., Portland, Mich.
Princess Mfg. Co. ("Princess" Water Power), Cincinnati, O.
Richmond Cedar Wks. ("F. F. V." "Typhoon"), Richmond, Pa.
Rochester Rotary Washer Co. ("Rochester" Rotary), Rochester, N. Y.
Ross, C. E. ("World," "Star"), Lincoln, Ill.
Rotary Washing Machine Co. (Hand & Water Power), St. Louis, Mo.


# Hendricks' Commercial Register

IS USED FOR

# Purchasing Purposes

BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED


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Standard Churn Co. ("Standard"), Wapakoneta, Ohio
Standard Mfg. Co. ("Leader"), Shelby, Ohio.
Steel Roll Machine Co. (Hand or Belt Power), 254 Madison, Chicago, Ill.
Steiner Mfg. Co. ("Steiner," Motor Driven), St. Louis, Mo.
Superior Mfg. Co., Sterling, Ill.
Tolhurst Machine Works, Troy, N. Y.
Trappe, Chas. H. ("Sucker State"), Mascoutah, Ill.
Troy Laundry Machinery Co. ("Troy", Hand & Power, Wood & Metal), 33 Warren, New York, & 23d & La Salle, Chicago, Ill.
Twentieth Century Mfg. Co. ("Twentieth Century"), Mansfield, O.
Universal Motor Co. ("Universal" Water Motor), Chicago, Ill.
Valley City Machine Works ("Valley City" Motor Washer), Grand Rapids, Mich.
Victor Mfg. Co. ("Wonder"), Leavenworth, Kan.
Voss Bros. Mfg. Co. ("Eagle High Speed," "High Speed," "Pendulum," "Sunshine," "Rotary," "Ocean Wave"), Davenport, Ia.
Wahle Foundry & Machine Co. ("Snow Ball", "Fast Time", "Quick Action"), Davenport, Iowa
Warren Mfg. Co. ("Fountain"), Dayton, O.
Wayne Mfg. Co. ("Excelsior" Cylinder, "Wayne"), St. Louis, Mo.
White Lily Washer Co. ("White Lily," "White Rose," "White Daisy," "White Washer."), Davenport, Ia.
Wiard Mfg. Co. ("Wiard's Standard"), East Avon, N. Y.
Yorst Gearless Motor Co., Springfield, O.

## 12938—Waste (Cotton & Wool)

Adams Bros., 571 Atlantic av, Boston, Mass.
Ajax Mills, Dallas, Tex.
Albany Waste & Metal Co., Albany, N. Y.
Andres, Fr. Jac. (Inc.), 127 Federal, Boston.
Bishop, Robt. Mfg. Co., Boston, Mass. Mass.
Blaisdell, S. Jr. Co., Chicopee, Mass.
Blakeley, Jno. & Son (Cotton lb Wool), 1085 Gtn av, Philadelphia, Pa.
Bowman, D. F. (Wool Waste for Packing Car Boxes), New Albany, Ind.
Briggs, H. A. & Co. (Cotton), Pawtucket, R. I.
**BRODERICK & BASCOM ROPE CO.** (All Grades), 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
Brooks, Geo. B. (Wiping), Providence, R. I.
**CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill.** (See adv. index, end of book)
Charles, Wm. B., Amsterdam, N. Y.
Cligg, Alfred (Wiping, etc.), 132 S 4th, Philadelphia, Pa.
Coburn, Walter Co., Lowell, Mass.
Collins, E. F. & Son, Springfield, Mass.
Corr, Peter H., Taunton, Mass.
Crefeld Waste & Batting Co., Saylesville, R. I.
Dallas Waste Mills (Cotton Only), Dallas, Tex.
Detroit Waste Works, Detroit, Mich.
Devlin, Chas. (Cotton & Wool), Hilton & Kensington, Phila. Pa.
Dixon, Wm. F. & Son (Cotton & Wool), Mana-Yunk, Philadelphia, Pa.
Egan, K. & Co. Baltimore Waste Co., Baltimore, Md.
Estes Mills (Inc.) (Cotton Machy. Wiping), Fall River, Mass.
Frankford Waste Co., Fkd., Phila., Pa.
Franklin Mfg. Co. (Wool Waste), Franklin, Pa.
Friedlander, Julius & Co. (Cotton Waste & Linters), Columbus, Ga.
Gallagher, D. J. Mfg. Co., 513 S Clinton, Chicago, Ill.
Galveston Waste Mills, Galveston, Texas
Glick, Harris (Wool, etc.), Worcester, Mass.
Gordan Bros. Co., Hazardville, Conn.
Graves, Frank B. (Wool), Albany, N. Y.
Hagy, Clayton L. & Son, 433 Spruce, Phila., Pa.
Hagy, J. Milton, Waste Works (Inc.), 433 Spruce, Phila., Pa.
Hill & Cutler, 567 Atlantic av, Boston, Mass.
Hirsch, I. C. Iron, Steel & Rail Co. ("I. C. H.") Wiping Waste), Cincinnati, O.
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
Houghton, E. F. & Co. (Cotton), 240 W Somerset, Phila., Pa.
**LESCHEN, A. & SONS ROPE CO.** (Cotton Only), 920 N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Lewis Mfg. Co. (Cotton Wiping Waste), Wal-pole, Mass.
Lowell Waste Co., Lowell, Mass.
McGrath, Jno. J. (Also Packing, Wiping, etc.), 1338 N Front, Phila., Pa.
Massasoit Mfg. Co., Fall River, Mass.
Moore, Geo. C. (Wool), N Chelmsford, Mass.
**NEW YORK CORDAGE CO. ("Ny-cord Cotton & Wool), 85 Wall, New York.** (See adv. index, end of book)
Olmstead & Tuttle Co. (For R. R. & Machinery, etc.), Chicopee, Mass.
O'Neill Bros. (For R. R. Purposes, etc.), Oxford & Howard, Phila., Pa.
Peck, Asa & Co. (Cotton & Wool), Providence, R. I.
Ray, Edgar K. (Est. of), Woonsocket, R. I.
Railway Supply & Mfg. Co. (Inc.), 1242 Harrison av, Cincinnati, O.
Richards, Fred J., Springfield, Mass.
Riverside Mills (White & Colored Machined Cotton), Augusta, Ga.
Royal Mfg. Co., 2 Rector, New York. Works: Rahway, N. J.
Springfield Waste Co. (Cotton Packing & Wiping Waste), Springfield, Mass.
**STRONG COTTON WASTE & MFG. Co. ("Strong's Specialty," White & Colored), 48 Franklin, New York.** (See adv. index, end of book)
Sykes, David (Also Wool & Wool Waste for Railroads), Dauphin & Amber, Phila., Pa.
Troy Waste Mfg. Co., Troy, N. Y.
Union Wadding Co. (Wiping), Pawtucket, R. I.
United Waste Mfg. Co., Troy, N. Y.
Wallace, Rodney, Fitchburg, Mass.
**WALSH'S SONS & CO., Harrison, N. J.** (See adv. index, end of book)
Westport Mfg. Co., Westport, Mass.

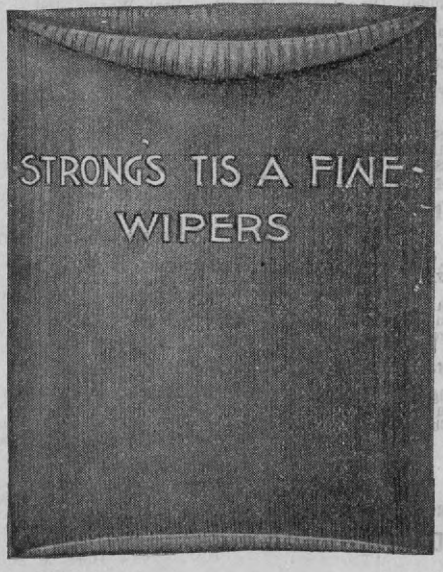
## Waste Heat Utilizers

(See Fuel Economizers)

## 12939—Waste & Overflows (Bath)

A. D. Mfg. Co. ("Romeyn" Connected), Detroit, Mich.
American Pin Co. (Connected), Waterbury, Conn.
Century Brass Mfg. Co. ("Century" "Tit-All"), Cattaraugus, N. Y.
Climax Specialty Co., Ann Arbor, Mich.


# When you Think of Cotton Waste, Think of Strong of New York




WHITE COP WASTE—MACHINED AND UNMACHINED

EXTRA WHITE — No. 1 WHITE — B WHITE

Try a bale of our B White Machined Waste at 11¾ cents per lb. We believe you will find it better value for your money than any other waste on the market.

COLORED WASTE — FANCY COLORED — No. 1 COLORED AND PARTLY COLORED

WOOL WASTE — All Grades

STRONG'S COTTON WIPER TOWELS

Strong's Tisafine Wiper Towels, 12 x 18 inches . 4 cts. each
" Lightning " " 12 x 13 " . 3¼ cts. each
" Magic " " 12 x 12 " . 3 cts. each
" Regular Wipers—Hosiery Remnants, as they run, 1 square foot up . . . 15 cts. per lb.
" Silk Wiper Towels, 12 x 14 inches . $7.00 per gross

# Strong Cotton Waste & Mfg. Co.

48 FRANKLIN STREET, N. Y. C.

Telephones, 5530-5531 Franklin


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D. C. Mfg. Co. ("D. C." Supply & Waste), Canton, Ohio
**Edwardsville Brass Co., Edwardsville, Ill.**
Findeisen & Kropf Mfg. Co. ("F. & K.") By-Pass), 2100 S Rockwell, Chicago, Ill.
**Frost Mfg. Co. ("Femco"), Kenosha, Wis.**
Hoffmann & Billings Mfg. Co. ("H. & B."), Milwaukee, Wis.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
**Morrison-Kretschmer Mfg. Co. ("Morrison"), Dubuque, Iowa**
Wolverine Brass Works (With Trap), Grand Rapids, Mich.

## 12940—Watch Case Mfrs.

American Watch Case Co., 15 Maiden la, New
Bates & Bacon, Attleboro, Mass. York
Crescent Watch Case Co., Newark, N. J.
Dubois Watch Case Co., 316 Herkimer, Brooklyn, N. Y.
Dueber Water Case Mfg. Co., Canton, O.
Fahys, Joseph & Co., 54 Maiden la, New York, & Sag Harbor, N. Y.
Illinois Watch Case Co., Elgin, Ill.
Keystone Watch Case Co., 19th & Parrish, Phila., Pa.
Leon Watch Case Co., 37 Maiden la, New York
Phila. Watch Case Co., Riverside, N. J.
Roy Watch Case Co., 79 Washington, Brooklyn, N. Y.
Solidarity Watch Case Co., 242 Chestnut, Brooklyn, N. Y.
Star Watch Case Co., Ludington, Mich.
Wadsworth Watch Case Co., Dayton, Ky.
Western Watch Case Mfg. Co., 103 State, Chicago, Ill.

## 12940a—Watch Case Materials

**UNITED WIRE & SUPPLY CO. (Gold & Silver, Sheet, Flat Plate, Wire, Plated Wire, Solder, etc.), 109 Summer, Providence, R. I. (See adv. index, end of book)**

## 12941— Watch Crystals

Bache, Semon & Co., West & Hubert, New York

## 12941a—Watches (Control)

**SCHAEFFER & BUDENBERG MFG. Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)**

## Watchman's Time Detectors

(See Clocks, Watchman's; also Recorders, Time)

## 12942—Water Bottles (Rubber)

Faultless Rubber Co., Ashland, O.
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
Imperial Rubber Co., Canton, O.

## 12943—Water Closet Mfrs.

Adee, Fred. & Co., 44 Cliff, New York
Aird-Don Co., 411 River, Troy, N. Y.
**Bailey-Farrell Mfg. Co., Pittsburg, Pa.**
Barrett, Jas. Mfg. Co., Boston, Mass.
**Blessing, C. A., 515 Montgomery av., Phila., Pa.**
Central Brass Works Co. ("Standard"), Kansas City, Mo.
Climax Sanitary Co. ("Maxco" Seat Operated), Detroit, Mich.
**Clow, Jas. B. & Sons, 344 Franklin, Chicago, Columbus Brass Co., Columbus, O.** Ill.
Colwell Lead Co., 109 Lafayette, New York
Dalton-Ingersoll Mfg. Co., 169 High, Boston,
Dececo Co., 155 High, Boston, Mass. Mass.
Detroit Bath Tub & Brass Co., Detroit, Mich.
Douglas, John Co., Cincinnati, O.
Federal-Huber Co., Halsted & Fulton, Chicago,
Fisher, E. W. Co., Cleveland, O. Ill.
Fleck Bros., 44 N 5th, Phila., Pa.
Fort Pitt Supply Co., 332 2d av, Pittsburg, Pa.
Froelich Bros., 142 N 7th, Phila., Pa.
Great Western Pottery Co. ("Venice" Extension Back Outlet Vitreous China, Washdown), Kokomo, Ind.
Haas, Philip Co. ("Haas" Frost Proof), Dayton, O.
Haines Jones & Cadbury Co. ("Frosto," "Pit-No," Frost Proof), 1140 Ridge av, Phila.,
Hamilton, Jno. H., Detroit, Mich. Pa.
Hercules Iron & Supply Co., Boston, Mass.
**Hess, Chas. Co. ("Hess" for Export), 129 Front, New York**
Humphryes Mfg. Co. ("Clipper" Low Down Syphen Jet & Syphon Washdown), Mansfield, O.
Hussey, Wm. H. & Son, 150 W 35th, New York
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Kelly, Thos. & Bros. (Self-Acting & "Kelly" Seat Action), 422 S 45th ct, Chicago, Ill.
Kenney Mfg. Co. ("Flushometer"), 36 E 22d, New York
Kohler's, J. M. Sons Co. (Enameled Iron), Sheboygan, Wis.
Lipp, Louis Co., Cincinnati, O.
Maddock, Thos. Sons Co., Trenton, N. J.
Merkel Bros., Canal & Jackson, Cincinnati, O.
Meyer-Sniffen Co. (Ltd.), 11 W 36th, New York
**Morrison-Kretschmer Mfg. Co., Dubuque, Ia.**
Mott, J. L. Iron Works, 118 5th av, New York
Mowry & Phillips, Boston, Mass.
**NASON MFG. CO., 71 Fulton, New York. (See adv. index, end of book)**
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Nunn Brass Works ("Genesee," Automatic), Rochester, N. Y.
Park & McKay Co., Detroit, Mich.
Peck Bros. & Co. (Combination), New Haven, Conn.
**Pierce, Butler & Pierce Mfg. Co. (Combinations, "Silent," "Comfort," "Monarch," "Victor," "Perfect," "Automatic"), Syracuse, N. Y.**
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Pittsburg Supply Co., Pittsburg, Pa.
Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.
**Rolf-Martin Co. ("Unique"), Fort Wayne, Ind.**
**Rumsey, L. M. Mfg. Co., St. Louis, Mo.**
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Sanitary Mfg. Co., Hamilton, O.
**SIMMONS, JOHN CO., 106 Centre, New York. (See adv. index, end of book)**
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Van Arnam Mfg. Co., Fort Wayne, Ind.
Vannevar, Edmund B. & Co. (Yacht), Boston, Mass.
**Walker Mfg. & Supply Co., Detroit, Mich.**
Walls, Owen & Stambach Co. ("Naturo"), 1041 Ridge av, Phila., Pa.
Wheeling Sanitary Mfg. Co. ("Clean-Out"), Wheeling, W. Va.
**Wolff, L. Mfg. Co., 601 W Lake, Chicago, Ill.**
Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

## 12944—Water Closet Plunger & Waste Pipe Cleaner

Lord, L. L. Co. ("Lord"), Meadville, Pa.
Young, Joseph H., 80 High, Boston, Mass.

## 12945—Water Closet Range

**(See also Water Closets, School, Institution, Etc.)**

Clow, Jas. B. & Sons (Syphon Jet), 344 Franklin, Chicago, Ill.
Haines, Jones & Cadbury Co. ("Syphon," "Education," "Brighton"), Open Range and Washout), 1136 Ridge av, Phila., Pa.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Lewis & Kitchen, Kansas City, Mo.
**Millar, Chas. & Son Co. (Washout & Syphon), Utica, N. Y.**
**Mott, J. L. Iron Works, 118 5th av, New York**
**Nelson, N. O. Mfg. Co. (Pneumatic Syphon Hopper Latunes), St. Louis, Mo.**
Standard Sanitary Mfg. Co. (Automatic Syphon Jet), Pittsburg, Pa.

## 12946—Water Closets (Anti-Freezing)

Central Brass Works Co. ("Standard"), Kan-
Haas, Philip Co., Dayton. ( sas City, Mo.
I. X. L. Pump & Mfg. Co. ("I. X. L. Automatic Low Down), 957 N 9th, Phila., Pa.
Kelly, Thos. & Bro. ("Kelly" Seat Action after Flush), 422 S 45th ct, Chicago, Ill.
Pittsburg Brass Mfg. Co. ("Pittsburg"), Pittsburg, Pa.
Vogel, Jos. A. Co., Wilmington, Del.
Walls, Owen & Stambach Co., 1041 Ridge av, Phila., Pa.
Zero Valve & Brass Mfg. Co., 417 Chicago, Buffalo, N. Y.

## 12947—Water Closets (Car)

Duner Co. ("Duner" Enameled Iron), 116 S Clinton, Chicago, Ill.

## 12948—Water Closets (Low-Down Combination)

Abingdon Seat & Tank Co. ("Princess"), Ab-
Becker Mills Co., Marietta, O. bington, Ill.
Climax Sanitary Co. ("Maxco" Seat Operated), Detroit, Mich.
Columbus Brass Co. ("San-Dur"), Columbus, Ohio
Colwell Lead Co., 109 Lafayette, New York
Cooper Sanitary Mfg. Co., 17th & Cuthbert, Phila., Pa.
Dalton-Ingersoll Co., 175 High, Boston, Mass.
Detroit Bath Tub & Brass Co., Detroit, Mich.
Douglas, Jno. Co., Cincinnati, O.
Fleck Bros. Co., Phila., Pa.
Fort Pitt Supply Co. ("Morus"), 332 2d av, Pittsburg, Pa.
Humphreys Mfg. Co. ("Clipper" Syphon Jet & Syphon Washdown), Mansfield, O.
I. X. L. Pump & Mfg. Co. ("I. X. L." Anti-Freezing), 957 N 9th, Phila., Pa.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Kelly, Thos. & Bros., 422 S 45th ct, Chicago, Ill.
Kretschmer Mfg. Co. (Double Flush Closet), Merkel Bros., Cincinnati, O. Dubuque, Ia.
Morrison-Kretschmer Mfg. Co. ("Morrison" Syphon Double Flush), Dubuque, Ia.
Peerless Selling Co., Evansville, Ind.
Pittsburg Brass Mfg. Co. ("Bak-Push"), 3153 Penn av, Pittsburg, Pa.
Quinn Mfg. Co., Kalamazoo, Mich.
Reading Foundry & Supply Co., 1423 Walnut, Phila., Pa.
**Sanitary Mfg. Co., Hamilton, O.**
Van Arnam Mfg. Co., Fort Wayne, Ind.

## 12949—Water Closets (Park)

American Steel House Co., 796 11th av, New York

## 12950—Water Closets (School, Institution, Etc.)

**(See also Water Closet Range)**

Adee, Fred & Co., 44 Cliff, New York
Aird-Don Co., Troy, N. Y.
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Douglas, Jno. Co., Cincinnati. Ill.
Federal-Huber Co., Halsted & Fulton, Chicago, Ill.
Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.
Kelly, Thos. & Bros. ("Kelly" Seat Action), 422 S 45th ct, Chicago, Ill.
Kenney Mfg. Co., 36 E 22d, New York
Meyer Sniffen Co., 11 W 36th, New York
Morrison-Kretschmer Mfg. Co. ("Morrison" Automatic), Dubuque, Ia.
Mott, J. L. Iron Works, 118 5th av, New
Nelson, N. O. Mfg. Co., St. Louis, Mo. York
Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburg, Pa.
Van Arnam Mfg. Co., Fort Wayne, Ind.

## 12951—Water Closets (Ship)

Bishop's, Wm. Sons, 18 James, New York
Curtiss Co., 20 Fulton, New York
Goblet-Dolan Co., 30 Old Slip, New York
Jenkins Mfg. Co., 20 Vesey, New York
Kelly, Thos. & Bro., 422 S 45th ct, Chicago, Ill.
Mott, J. L. Iron Works, 118 5th av, New York
Sands, Alfred B. & Son Co., 20 Vesey, New
Webb, F. W. Mfg. Co., Boston, Mass. York

## 12952—Water Columns or Stations (Railroad)

(See also Tanks & Towers, Steel; also Cranes, Locomotive Water)

American Valve & Meter Co. ("Poage's"), Cincinnati, O.
Best Mfg. Co. (Gulland's Valve & Water Column), Pittsburg, Pa.
**DES MOINES BRIDGE & IRON CO.,** 4th & Ross, Pittsburg, Pa. (See adv. indes & branch offices, end of book)
**FAIRBANKS, MORSE & CO. ("Sheffield," Automatic), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)**
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Otto Gas Engine Works, 33d & Walnut, Phila.,
Sheffield Car Co., Three Rivers, Mich. Pa.
Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
**WARREN CITY TANK & BOILER Co., Warren, O. (See adv. index, end of book)**
**U. S. Wind Engine & Pump Co., Batavia, Ill.**

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## 12953—Water Columns (Plain)

American Steam Gauge & Valve Mfg. Co., Bos-
Ashton Valve Co., Boston, Mass. ton, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bordo, L. J. Co., Inc. ("Bordo"), 12th & Thompson, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE** Co., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
Haydenville Co., Haydenville, Mass.
Illinois Malleable Iron Co., 1801 Diversey boul,
Jarecki Mfg. Co., Erie, Pa. Chicago, Ill.
Kelly & Jones Co., Pittsburg, Pa.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O.** (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co., 56 John, New York
Michigan Lubricator Co., Detroit, Mich.
National Tube Co. ("Kewanee," for House Heating Boilers, etc.), Pittsburg, Pa.
Pittsburg Valve & Fittings Co., Barberton, O.
Queen City Brass & Iron Works, Cincinnati, O.
Ross Steam Specialty Co., 140 Cedar, New
Steigert, Leopold, Cincinnati, O. York
Walworth Mfg. Co., Boston, Mass.

## 12954—Water Columns (Safety)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Berry Engineering Co. ("Berry"), Chester, Pa.
Binghamton Machine Works ("Turner"), Binghamton, N. Y.
Bordo, L. J. Co., Inc. ("Bordo"), 12th & Thompson, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Collins Mfg. Co., 612 Chestnut, Phila., Pa.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Jarvis Engine & Machine Works ("Jarvis," "Our Pet"), Lansing, Mich.
Kelly & Jones Co. (Combination), Pittsburg,
Kitts Mfg. Co., Oswego, N. Y. Pa.
Lawler Regulator Co., 473 W B'way, New York
**LUNKENHEIMER CO. ("Vigilant"** Combination), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Murray Automatic Boiler Feed Co., Detroit, Mich.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**PITTSBURGH GAGE & SUPPLY CO.** ("Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Reliance Gauge Column Co. ("Reliance"), Cleve-
Sims Co., Erie, Pa. land, O.
Steigert, Leopold ("U. S." Water Indicator), Cincinnati, O.
Williams, D. T. Valve Co., Cincinnati, O.
Williams Gauge Co. ("Williams" High & Low Alarm), Pittsburg, Pa.
Wright Mfg. Co. ("Wright"), Detroit, Mich.

## 12955—Water Cooling Apparatus

Wheeler, C. H. Mfg. Co., Phila., Pa.

## Water Gates

(See Valves, Gate, for Water Mains)

## 12956—Water Ozonating & Purifying Plants

United Water Improvement Co., Penna bldg, Phila., Pa.

## 12957—Water Purification Apparatus

Walworth Mfg. Co. ("Glover," for Cities, Families, etc.), Boston, Mass.

## 12958—Waterproof Wrapping (Cloth Lined)

Angier Mills ("Keepdry"), Quincy, Mass.

## 12958a—Waterproofing Cloth

Lehon Co., W 43d & Lincoln, Chicago, Ill.

## 12959—Waterproofing Compounds

(See Waterproofing Materials)

## 12960—Waterproofing Materials

(See also Paints, Damp Resisting)

Abbey Brooks Co. ("Novoid"), Newark, N. J.
Alaska Waterproofing Co., Ashland, Ky.
American Asphaltum & Rubber Co. ("Pioneer"), Harvester bldg, Chicago, Ill.
American Diamond Blast Co. ("Anto-Hydro" Cement), 716 Greenwich, New York.
Anhydrous Pressed Stone Co. ("Anhydrd"), 138 Washington, Chicago, Ill.
Anti-Stick Co. ("Anti-Damp"), Westerville, O.
Aquabar Co. ("Aquabar"), 1228 Locust, Phila.,
Arlington Mfg. Co., Canton, O. Pa.
Barber Asphalt Paving Co. ("Genasco," "Positive," Seal Cement), Land Title bldg, Phila., Pa.
Billings-Chapin Co. ("Drieval"), Cleveland, O.
Bird, F. W. & Son ("Neponset Hydrodyke" Felt, etc.), E Walpole, Mass.
Bird, J. A. & W. Co. ("Tunaloid" Wood Felt), Boston, Mass.
Borden Varnish Co. ("Shed Water"), St. Louis, Mo.
**CABOT, SAML. (Brick, Stone & Cement),** 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)
Ceresit Waterproofing Co. ("Ceresit"), 115 Adams, Chicago, Ill.
Chicago Ironite Waterproofing Co. ("Ironite"), 84 Lasalle, Chicago, Ill.
Concrete Coating Co. ("Champion" Dampproofing), Springfield, O.
**CONCRETE WATERPROOF PAINT** Co., of America, 115 N 4th, Phila., Pa.
De Smet, Geo. W. ("Dehydratine" & "Symentrex" Liquid Concrete), 138 Washington, Chicago, Ill.
Devoe, F. W. & C. T. Raynolds Co. ("Devoe"), 101 Fulton, New York
Dexter Bros. Co. ("Petrifax" Damp Resisting Coating), Boston, Mass.
**DOGGETT, STANLEY (For Cement** Work), 101 Beekman, New York. (See adv. index, end of book)
Elaterite Paint & Mfg. Co. ("Des Moines Elaterite" Cement), Des Moines, Ia.
Flexible Compound Co., 3607 Haverford av, Phila., Pa.
Glidden Varnish Co. ("Glidden's" Liquid Cement for Concrete Cement & Plaster), Cleveland, O.
Gould Gibralter Paint Co. ("Gibralter), 32 Union Sq., New York.
**GROSCHE, BRUNO & CO. (Cement,** Concrete, etc.), 13 Jones La., New York. (See adv. index, end of book)
Grote, Geo. W. & Co., 432 E 102d, New York
Harrison Waterproof Materials Co. ("Harrison," Compounds), 30 Church, New York
Heath & Milligan Mfg. Co. (Cement Coating), Chicago, Ill.
Horn, A. C. Co. (Symentrex & Dehydrating), 8 Burling sl, New York
Hydrex Felt & Engineering Co. ("Hydrex" Compound & Felt), 120 Liberty, New York. Factory: East Walpole, Mass.
Hydrolithic Cement Co. ("Hydrolithic" Cement), 138 Jackson boul, Chicago, Ill.
Illinois Dampproofing Co. ("I. D. P." Compound), 145 La Salle, Chicago, Ill.
Insulite Chemical Co. ("Insulite"), Aurora, Ill.
International "All-Proof" Bldg. Material Co. ("All-Proof), 5 Beekman, New York
Ironite Co. ("Ironite" for Concrete, Brick & Stone), 84 La Salle, Chicago, Ill.
**JOHNS, H. W.-MANVILLE CO. ("J-**M Insulite" Felt & Cement Coating), 100 William, New York. (See adv. index & branch offices, end of book)
Kessler, Fluats Co. ("Kessler"), 43 W 27th, New York
Koch, Theo. F. & Co. ("Wunner's" Bitumen-Emulsion for Cement or Concrete), 79 Dearborn, Chicago, Ill.
Lithium Chemical Co. (Inc.) ("Cementol," Liquid, Paste & Powder), 101 Beekman, New York
Maumee Chemical Co. ("Maumee" Compound), Toledo, O.
McCormick Waterproof Portland Cement Co. ("McCormick," for Reservoirs, etc.), St. Louis, Mo.
Minwax Co. ("Minwax"), 1123 B'way, New York
National Insulite Co. ("Insulite"), Aurora, Ill.
National Waterproof Co. ("Te Pe Co"), Harvester bldg, Chicago, Ill.
Neuchatel Asphalt Co. (Ltd.), 265 Broadway, New York
North Jersey Paint Co. ("Edison" Paint), 1133 B'way, New York
Patton Paint Co. ("Cementhide"), Milwaukee, Wis.
Pitts, Chas. L. Co., 58 E Park, Newark, N. J., & 210 16th, Jersey City, N. J.
Preservative Products Co. ("Esco," "Impervo"), 1133 B'way, New York
Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.
Semet-Solvay Co. ("Solvay," Concrete Coating), Syracuse, N. Y.
Sicilian Asphalt Paving Co. ("Siastex," An Asphalted Textile), 41 Park row, New York
Sonneborn, L. Sons ("Hydrocide," Damp-Proofing), 262 Pearl, New York
Stocker, F. William & Co., Inc. ("Lapadas"), 34 W 33d, New York
Texas Company ("Texaco"), 17 Battery pl, New York
Toch Bros. (Est. 1848), ("Toxement," Powder), 320 5th av, New York
Tropical Oil Co. ("Cementkote" Damp-proofing), Cleveland, O.
**TRUSSED CONCRETE STEEL CO.** (Kahn System) (For Brick Cement, etc.), Detroit, Mich. (See adv. index for branch offices, end of book)

DO YOU KNOW

that **Hendricks' Commercial Register** is consulted by thousands of Buyers annually, who request us to "put them in touch" with the manufacturers of the best products in all lines of trade and that we are frequently asked to recommend the ONE which we consider to be the best in a particular line? : : :

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Union Construction & Waterproof Co., 1133 Broadway, New York
Union Fibre Co. ("Antiaqua," Cement for Waterproofing Walls or Insulation) Winona, Minn.
Universal Compound Co., 245 W 26th, New York
Virginia Waterproofing Co. ("Coleman's" Transparent Filler), Norfolk, Va.
Viscol Co., Cambridge, Mass.
Wadsworth, Howland & Co. ("Bay Side," Brick & Cement Coating), Boston, Mass.
Waterproofing Co. (For Cellar, Subways, Reservoirs, Tunnels, etc.), 150 E 36th, New York
Vibell Damp Resisting Paint Co. ("Alkacene" Waterproof Portland Cement, Liquid Concrete, Lime, Mortar & Plaster), 273 Water, New York

## 12961–Water Softening & Purifying Apparatus

American Water Softener Co. ("Brunn-Lowener"), 1009 Chestnut, Phila., Pa.
Booth, L. M. Co. ("Booth" Water Softener), 136 Liberty, New York
Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**GEM CITY BOILER CO. ("Russell"),** Dayton, O. (See adv. index, end of book)
**GRAVER, WM. TANK WORKS** ("Bartlett Graver"), East Chicago, Ind. (See adv. index & branch offices, end of book)
Greer Filter Mfg. Co. (Inc.), Pittsburg, Pa.
Harrison Safety Boiler Works, 17th below Allegheny av, Phila., Pa.
Hungerford & Terry ("Hungerford"), Penna. bldg, Phila., Pa.
Jewell Engineering Co., Monadnock blk, Chicago, Ill.
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**NEW YORK CONTINENTAL JEWELL** Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
Northern Water Softener Co. ("Bartlett," "Northern"), Madison, Wis.
Patterson, D. W. ("Bachman"), 1502 Market, Phila., Pa.
Pittsburg Filter Mfg. Co., Pittsburg, Pa.
Power Plant Specialty Co. ("Vater" Hot Process), Monadanock Blk., Chicago, Ill.
Reisert Water Purifying Co., 30 Church, New York
**SCAIFE, WM. B. & SONS CO.,** ("Scaife" & "We-Fu-Go" Systems), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Steam Appliance Mfg. Co., Batavia, N. Y.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York, Works, Newburgh, N. Y.
United States Wind Engine & Pump Co., Batavia, Ill.

## Water Stations (Railroad)

(See Water Columns or Stations, Railroad)

## 12962–Water Supply (Air Pressure)

(See Lifts, Air; also Pneumatic Water Supply Systems)

## 12963–Water Supply for Suburban & Country Homes

**BALTIMORE COOPERAGE CO. ("Simplex"),** cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)

## 12964–Water Supply Systems

Chicago Pump Co. (Automatic Electric Compression, For Domestic Water Supply), 1055 Fulton, Chicago, Ill.
Foos Gas Engine Co., Springfield, O.
**LEADER IRON WORKS, Decatur,** Ill. (See adv. index & branch offices, end of book)
Sanitary Pump Co. (Operated by Electric Motor, Hand or Gasoline Engine), Dayton, Ohio

## 12965–Water Towers (Fire Boat)

**Woodhouse Mfg. Co. ("Woodhouse"), 50 W B'way, New York**

## 12966– Water Wheels

(See also Turbine Water Wheels)

Blymer Iron Works Co. (Overhead), Spring Grove & Terrace pl, Cincinnati, O.
Doble, Abner Co. ("Taugential"), San Francisco, Cal.
Fitz Water Wheel Co., Hanover, Pa.
Hallidie Company, Spokane, Wash.
Hug Water Wheel Co., Denver, Colo.
Knight & Co. (100 to 2,500 h. p.), Sutter Creek, Cal.
Leffel, Jas. & Co., Springfield, O.
Pelton Water Wheel Co. (Also Direct Connected), San Francisco, Cal., & 90 West, New York
Mine & Smelter Supply Co., Denver, Colo.
Trump Mfg. Co., Springfield, O.
United Iron Works ("Tuthill"), Oakland, Cal.

## 12967– Wattmeters

**BRISTOL CO. ("Bristol's" Recording),** Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Duncan Electric Mfg. Co. ("Duncan"), Lafayette, Ind
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York
Esterline Co. ("Esterline", Recording), Lafayette, Ind.
Electrical Accessories Co. (Importers), 1133 B'way, New York
Federal Electric Co. ("Willis"), 640 W Lake, Chicago, Ill
Fort Wayne Electric Works (Induction), Fort Wayne, Ind
**GENERAL ELECTRIC CO. ("Thomson", "Wright"),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Helios Mfg. Co. ("Bastian," Electrolytic Meter), Bridesburg, Phila., Pa.
International Elec. Meter Co., Chicago, Ill.
Keystone Electrical Instrument Co., 9th & Montgomery ave., Phila., Pa.
Roller-Smith Co. ("Hoyt's"), 203 B'way, New York. Works: Bethlehem, Pa.
Wagner Electric Mfg. Co., St. Louis, Mo.
**WESTINGHOUSE ELECTRIC & MFG.** Co. ("Westinghouse" Portable Lamp Testing Volt-Wattmeter, etc), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

## 12968–Wattmeters (Prepayment, Recording)

**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
**WESTINGHOUSE ELECTRIC & Mfg. Co.,** Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

## 12969–Wax (Bayberry)

Bromund, E. A. Co., 253 Church, New York

## 12970–Wax (Cabinet)

Bowdlear, W. H. Co. (Waxes from all countries), 220 Devonshire, Boston, Mass.
Brown, D. P. & Co., 262 N 4th, Phila., Pa.
Smith & Nichols (Imported), 48 South, New York
Stevenson Bros. & Co., 110 Race, Phila., Pa.
Stevenson, Oliver K., 108 Front, Phila., Pa.
Walton, F. S. & Co., 136 S Front, Phila., Pa.

## 12971–Wax Heads & Fixtures

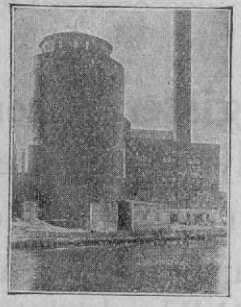
(See names in Window Display Fixtures with the words Wax-figures following their name)

## 12972–Wax (Paraffine)

American Petroleum Products Co., 196 Water, New York
Baker & Adamson Chemical Co., Easton, Pa.
Borne, Scrymser Co., 80 South, New York
Crew-Levick Co., Land Title bldg., Phila., Pa.
Emery Mfg. Co., Bradford, Pa.
Freedom Oil Works, Freedom, Pa.
Germania Refining Co., Oil City, Pa.
Great Western Oil Co., Cleveland, O.
**INDIAN REFINING CO. (Purest Refined),** 17 Battery pl, New York. (See adv. index & branch offices, end of book)
Kendall Refining Co., Bradford, Pa.
Loos & Dilworth, 134 S Front, Phila., Pa.
Manufacturers' Paraffine Co., Chester, Pa.
Monitor Oil Co., Cleveland, O.
National Refining Co., Cleveland, O.
Pennsylvania Paraffine Works, Titusville, Pa.
Smith & Nichols, 48 South, New York
Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York.

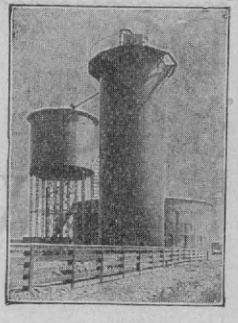
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K 150,000-Gallon per hour Softener 70 Ft. Dia. x 80 Ft. High

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Works: Chicago Heights Illinois, U. S. A.

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Standard Oil Co. (Refined), 555 W. 25th, New York
Standard Oil Co. of Ohio, Cincinnati, O.
Sun Oil Co., Toledo, Ohio
Tidewater Oil Co. (Refined), 11 B'way, New York
Union Petroleum Co. (White & Yellow), 135 S 2d, Phila., Pa.
Waverly Oil Works (Refined), Pittsburg, Pa.

## Wax Polish (Floor Finish)

(See Floor Polish, Hard Wax)

## 12973— Wax (Sealing)

Apel, Herman, Milwaukee, Wis.
Bowdlear, W. H. Co., 220 Devonshire, Boston, Mass.
British-American Sealing Wax Co., Cincinnati, Ohio
Browne, M. C., Holyoke, Mass.
Dennison Mfg. Co., 26 Franklin, Boston, Mass.
Dicks & Wiggin ("Zubian," "Pontius Pure" for Fruit Jars, etc.), Dayton, O.
Edwards Bros., Milton, Mass.
Harrison Mfg. Co., Rahway, N. J.
Princeton Sealing Wax Co., Princeton, Ill.
Propfe, August, 2941 N 22d, Phila., Pa.
Sanford Mfg. Co., Congress & Peoria, Chicago, Ill.
Scheel, Wm. H., 159 Maiden la., New York.
Zinsser, Wm. & Co., 197 William, New York

## 12974—Wax Tailings & Scale Wax

Craig Oil Co., Toledo, Ohio
Emery Mfg. Co., Bradford, Pa.
Independent Refining Co., Oil City, Pa.
**INDIAN REFINING CO., 17 Battery** pl, New York. (See adv. index & branch offices, end of book)
National Refining Co., Cleveland, O.
Penn Refining Co., Oil City, Pa.
Standard Oil Co., 555 W. 25th, New York.
Tidewater Oil Co., 11 B'way, New York

## 12975— Wax Tapers

Cathedral Candle Co., Syracuse, N. Y.
Columbia Wax Works, 749 E 137th, New York
Houchin, Thos. W. Co. ("Houchin's", Gas Lighters), 318 B'way, New York
Marty, F. & Co., Syracuse, N. Y.
Will & Baumer Co., Syracuse, N. Y.

## 12976— Weaners (Calf)

Andrews Wire & Iron Works ("Sure Thing," "Hoosier"), Rockford, Ill.
Barbee Wire & Iron Works ("Hoozier", "Shaw Improved" Wire), 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Carroll Muzzle Co. ("Shaw's" & "Swender" Calf & Cow, "Hawkeys" Pronged Calf), Carroll, Ia.
Cooley Mfg. Co., 551 W Monroe, Chicago, Ill.
Daggett Mfg. Co., Hastings, Neb.
Hamlin & Russell Mfg. Co., Worcester, Mass.
Pratt, Wm. E. Mfg. Co. ("Tylers"), 91 Lake, Chicago, Ill.
Quaker City Rubber Co., 629 Market, Phila., Pa.

## 12977—Weather Strip Rubber

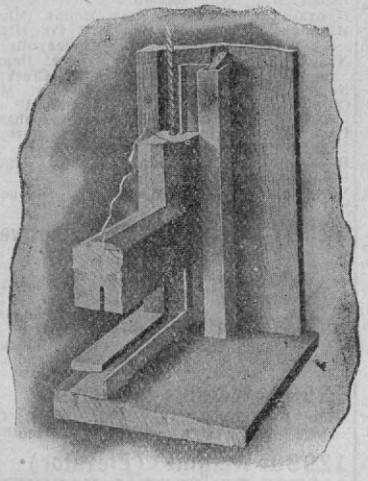
**BOSTON BELTING CO., 256 Devonshire**, Boston, Mass. (See adv. index & branch offices, end of book)
**GOODRICH, B. F. CO., Akron, O.** (See adv. index & branch offices, end of book)
**NEW YORK RUBBER CO., Reade & Church**, New York. (See adv. index, end of book)

## 12978— Weather Strips

Acme Supply Co. ("Acme", Metallic for Cars), 39 Jackson blvd, Chicago, Ill.
Anderson, Wm. G. & Co. (Combined Felt & Rubber Invisible), Sudbury bldg, Boston, Mass.
Athey Sanitary Equipment Co. (Cloth Lined Metal), 1907 Michigan av, Chicago, Ill.
Bosley, D. W. Co. ("Bosley's" Felt, Rubber, Metallic Rubber, Metallic Railway, etc.), 1123 Fulton, Chicago, Ill.
Brown, A. B. Co., 514 W 46th, New York
Chamberlin Metal Weather Strip Co. (Metallic), Detroit, Mich.
**"CHAMPION" METAL WEATHER** Strip & Parting Bead Co. (Metallic), 179 Summer, Boston, Mass. (See adv. index & branch offices, end of book)
Chicago Metal Weather Strip Co. (Metal), 1617 N Troy, Chicago, Ill.
Dennis, W. J. & Co., 2224 W Lake, Chicago, Ill.
Freeman, Chas. A. Mfg. Co. ("Invisible"), 178 Devonshire, Boston, Mass.
Frost Railway Supply Co. ("Detroit", Metal for Cars, etc.), Detroit, Mich.
Golden, Geo. W. ("Golden" Metallic), 15 Gilman, Detroit, Mich.
Harsha, L. R. Mfg. Co., 2010 Carroll av, Chicago, Ill.
Heaton & Wood, 1706 Chestnut, Phila., Pa.
Introstyle & Novelty Mfg. Co. (Metal O. K.), Marietta, O.
Metal Plated Car & Lumber Co. (For Cars Only), 30 Church, New York
Metallic Weatherstrip Co. (Metallic), Los Angeles, Cal.
Mineralized Rubber Co., 18 Cliff, New York
Monarch Metal Weather Strip Co. (Metal), St. Louis, Mo.
Motley, Peter (Rubber), 750 S Broad, Phila., Pa.
National Metal Weather Strip Co. ("National," All Metal), Pittsburg, Pa.
National Supply & Mfg. Co. (Metallic), St. Louis, Mo.
Osgood, H. H. & Co., 4 Wash'n, N, Boston, Mass.
Paragon Metal Weather Strip Co. ("Paragon," All Metal), 511 W 21st, New York
Peace Metal Weather Strip Co. (Metal), Niagara Falls, N. Y.
Perfection Metallic Weather Strip Co., 267 Lafayette boul, Detroit, Mich.
Pittsburg Air Tight Metal Door Sill Co. (Metal Air Tight), Pittsburg, Pa.
Prince, W. O., 26 Edinboro, Boston, Mass.
Protective Ventilator Co., 110 W 32nd, New York
Pullman Automatic Ventilator Mfg. Co. (Metal Door & Window), York, Pa.
Reeves Mfg. Co. (Automatic), New Haven, Conn.
Robbins Mfg. Co. (All Metal), 1801 N Central Park av, Chicago, Ill.
Roebuck Weather Strip & Wire Screen Co., 419 Hamilton av., Brooklyn, N. Y.
Solomon, M., Fly Screen Co. (Solid Metal Interlocking), Baltimore, Md.
Stanfield Patent Weather Strip Co., Cincinnati, O.


# "CHAMPION" METAL WEATHER STRIP & PARTING BEAD COMPANY

*179 Summer Street, Boston, Mass.*



**The "Champion" is distinct from every other metal weather strip in that it is a practical combination of a metal weather strip and parting bead, both being formed from the same piece of metal.**

**EFFECTIVE; AUTOMATIC; PERMANENT;**

**and in its various forms adapted to every style and detail of window.**

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**INVISIBLE AND PERMANENT.**

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PORTLAND, Me.....Roscoe S. Davis, 121 Exchange Street
DALLAS, Tex.....B. Blankenship, 603 Scollard Bldg.
ALBANY, N. Y.....C. M. Ward, 33-34 Tweddle Bldg.
BUFFALO, N. Y.....Hyde & Mueller, 72 Carlton Street
WASHINGTON, D. C.....General House Repair Co., 2013 14th Street, N. W.
CHICAGO, Ill.....United Ornamental Iron Works, 703 Security Bldg.


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Tabor Sash Fixture Co. ("Tabor", Metallic), 69 Polk, Newark, N. J.
**TAYLOR & DEAN (Metal), Penn av.** & 25th, Pittsburg, Pa. (See adv. index, end of book)
**Union Novelty Works (Felt Cushion Edge), Putnam, Conn.**

## 12979– Weather Vanes

**Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.**
Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.
Broad Gauge Iron Stall Works, Boston, Mass.
**BURTON, W. J. CO., 161 W Congress, Detroit, Mich. (See adv. index, end Canton Art Metal Co., Canton, O. of book)**
**CANTON MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index** & branch offices, end of book)
**Eller Mfg. Co., Canton, O.**
Fiske, J. W. Iron Works, 56 Park pl., New York.
Foy, Edw. A. & Co., Cincinnati, O.
Gerock Bros. Mfg. Co., St. Louis, Mo.
Goodwin, Frederick O., 5556 Arch, Phila., Pa.
**Henis, Wm. G., 1347 Ridge av, Phila., Pa.**
**Hum & Leatherman, Pittsburg, Pa.**
Jones, Thomas W. (Also Dial), 22 Burling sl, New York
**MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)**
**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index, & branch offices, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
National Cable & Mfg. Co. ("National"), Niles, Mich.
**NATIONAL SHEET METAL ROOFING** Co., 339 Grand, Jersey City, N. J. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
**Sheet Metal & Supply Co., Lancaster, Pa.**
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**SNOW, W. A. IRON WORKS (Copper), 19 Portland, Boston, Mass.**
**TAYLOR & DEAN, Penn av. & 25th,** Pittsburg, Pa. (See adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.
Washbourne, Edw. G. & Co., 207 Fulton, New York
Wastervelt, A. B. & W. T., 102 Chambers, New York

## 12980–Webbing (Cotton)

Atkins & Pearce Mfg. Co., Cincinnati, O.
**Buffalo Weaving & Belting Co. (Belting, Halters, Girths, Bridles, Back Bands, Trunk Straps, etc.), Buffalo, N. Y.**
**Consolidated Cotton Duck Co. (Back Band, etc.), Baltimore, Md.**
**Empire Mfg. Co., Lockport, N. Y.**
**Fletcher Mfg. Co., Providence, R. I.**
Hoffman-Corr Mfg. Co., 413 Market, Phila., Pa.
**Hope Webbing Co. (Narrow Woven Fabrics), Providence, R. I.**
Narrow Fabric Corp., New Haven, Conn.
Russell Mfg. Co., Middletown, Conn.
**Vogt Mfg. & Coach Lace Co., Rochester, N. Y.**

## 12981–Webbing (Elastic)

**American Mills Co., Waterbury, Conn.**
**Ansonia O. & C. Co., Ansonia, Conn.**
**Bridgeport Elastic Fabric Co., Bridgeport, Conn.**
Colton, Geo. S., Easthampton, Mass. Conn.
Connecticut Web & Buckle Co., Bridgeport,
Harriman, Josiah, Lowell, Mass. Conn.
Mansfield Electric Works Co., Mansfield, O.
Martin, T. & Bro. Mfg. Co., Chelsea, Mass.
Narrow Fabric Corp., New Haven, Conn.
Russell Mfg. Co., Middletown, Conn.
Smith Webbing Co., Pawtucket, R. I.

## 12982–Webbing (Upholsterers')

Ludlow Mfg. Associates, Boston, Mass.

## 12983–Wedges (Anchor Tool Handle)

Neverslip Anchor Wedge Co. ("Neverslip", for Hammers, Hatchets, Axes, etc.), Auburn, N. Y.

## 12984–Wedges (Equalizing)

McCord & Co. ("National"), 150 Michigan av, Chicago, Ill.

## 12985–Wedges (Foundry)

Sterling Wheelbarrow Co., Milwaukee, Wis.
Stevens, Frederic B., Detroit, Mich.

## 12986–Wedges (Handle)

Syracuse Twist Drill Co. ("Syracuse"), Syracuse, N. Y.

## 12987–Wedges (Journal Bearing)

Transue & Williams Co. (Drop Forged), Alliance, O.

## 12988–Wedges (Journal Box)

Western Tool & Forge Co., Brackenridge, Pa.

## 12989–Wedges (Socket)

Black, Jno. B. ("Brady's," with Ring), Chester, Pa.

## 12990– Wedges (Steel)

**Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.**
Atha Tool Co. (Wood Choppers, Frost, Falling Tie, Stave, Saw, Coal, Stone, etc.), New-
Beall Bros. (Inc.), Alton, Ill ark, N. J.
Collins Co., Collinsville, Conn.
Doble, Abner Co., San Francisco, Cal.
**Evansville Tool Works (Coal, Wood Choppers, Falling Stone, etc.), Evansville, Ind.**
Falls Mfg. Co. (Splitting), 360 Fremont, San Francisco, Cal.
**Fulton Tool Works (Miners, Wood Choppers, etc.), Canal Fulton, O.**
Hardsocg, Martin Co., Pittsburg, Pa.
Harvey, H. H. (Steel for Quarry Work and Woodman), 606 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
McInnes Steel Co. (Ltd.) (Woodman's), Corry, Pa.
Oliver Iron & Steel Co. (All Kinds), Pitts-
Phillips, F. & Son, Baltimore, Md. burg, Pa.
Plumb, Fayette R. (Inc.), Tucker & P. R. R., Fkd., Phila., Pa.
Trow & Holden (For Quarry Work), Barre,
Warwood Tool Co., Wheeling, W. Va. Vt.
What Cheer Tool Co., What Cheer, Ia.
Woodruff, Walter W. & Sons Co. (Axe), Mount Carmel, Conn.

## 12991–Wedges (Tool Post)

Page-Storms Drop Forge Co. (Drop Forged), Chicopee, Mass.

## 12992–Wedges (Treenail)

**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Hoskins, J. S. Lumber Co. (Locust), Baltimore, Md.
Palmer, Robert & Son, Ship bldg & Marine Ry. Co., Noank, Conn.
United States Bung Mfg. Co., 50 S 2d, Brooklyn, N. Y. Factory, Cincinnati, O.

## 12993– Weeders

American Drill Co., Springfield, O.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Aspinwall Mfg. Co., Jackson, Mich.
Babcock Mfg. Co., Leonardsville, N. Y.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Brown Manly Plow Co., Malta, O.
Burch Plow Works Co., Crestline, O.
Champion Potato Machinery Co., Hammond, Ind.
Cutaway Harrow Co., Higganum, Conn.
Dunham, J. W. & Son, Berea, O.
Eureka Mower Co., Utica, N. Y.
Fuller & Johnson Mfg. Co., Madison, Wis.
Greenville Implement Co., Greenville, Mich.
Janesville Machine Co., Janesville, Wis.
Keystone Farm Machine Co. (Straight Bar or Adjustable, Walking or Sulky), York, Pa.
Lean, Roderick Mfg. Co., Mansfield, O.
Lovejoy, H. H. & Son, Cambridge, N. Y.
Munnsville Plow Co., Munnsville, N. Y.
National Drill Co., Cambridge, Ind.
North Wayne Tool Co., Hallowell, Me.
Denckla bldg, Phila., Pa.
Ohio Implement Co., Bowling Green, O.
Spangler Mfg. Co., York, Pa.
Toledo Plow Co., Toledo, O.
Washington Weeder Works, Walla Walla Wash.
Wiard Plow Co. (Adjustable), Batavia, N. Y.

## 12994–Weeders (Garden)

Allen, S. L. & Co. ("Firefly" & "Farmer"), Denckla bldg, Phila., Pa.
Anchor Bolt & Nut Co., Poughkeepsie, N. Y.
Bateman Mfg. Co. ("Iron Age"), Grenloch, N. J.
**BUFFUM TOOL CO. (Weeders &** Transplanters), Louisiana, Mo. (See adv. index & branch offices, end of book)
Clark, W. J. Co. ("Rapid-Easy"), Salem, O.
Donaldson Bros. (Beet), Mount Clemens, Mich.
Fletcher, Terry & Co. (Hand), Forestville, Conn.
Fuller Mfg. Co. ("Daisy" Hand), Danvers,
Genung, C. W., Madison, O. Mass.
Jeliff, C. O. Mfg. Corp. ("Universal"), Southport, Conn.
Keystone Farm Machine Co. (Adjustable), York,
Mason, F. C. & Co., St. Johns, Mich. Pa.
North Wayne Tool Co. ("Lefavour's Favorite"), Hallowell, Me.
Ohio Implement Co., Bowling Green, O.
Thornburgh Mfg. Co. ("Toledo"), Bowling Green, O.
Union Fork & Hoe Co. (Hand), Columbus, O.
Western Steel & Iron Works, (Beet Weeders), De Pere, Wis.
Wrightsville Hardware Co., Wrightsville, Pa.

## 12995–Weighers (Feed Water)

Willcox Engineering Co. ("Willcox" Automatic), Saginaw, Mich.
**WORTHINGTON, HENRY R.** ("Worthington" Recording for Liquids), B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 12996–Weighers, Loaders & Baggers (Grain)

Advance Thresher Co. ("Illinois", "Himes", "Herald", "Handy", "Heyran", "Dakota"), Battle Creek, Mich.
Advance Thresher Co., Battle Creek, Mich.
American Mfg. Co., Racine, Wis.
Berg, E. O. & Son (Automatic Weighers), Madison, Minn.
Buffalo Pitts Co., Buffalo, N. Y.
**Case, J. I. Threshing Machine Co. (Weighers), Racine, Wis.**
Climax Machinery Co. ("Avalanche," Pneumatic; "Star," Centrifugal; "Climax," Drag; Grain Elevating & Handling), Indianapolis, Ind.
Gaar, Scott Co. (Weighers & Baggers), Richmond, Ind.
Geiser Mfg. Co. (Weighers & Baggers). Waynesboro. Pa.
Hart Grain Weigher Co. (Weighers), Peoria, Ill.
Hartley, C. J. Co. (Weighers), Decatur, Ill.
Huber Mfg. Co., Marion, O.
Hydraulic Press Mfg. Co., Mount Gilead, O.
**Minneapolis Threshing Machine Co. (Baggers), Minneapolis, Minn.**
Nichols & Shepard Co. (Weighers, Baggers & Loaders), Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Ohio Road Machinery Co. ("Standard" Adjustable Baggers), Oberlin, O.
**Port Huron Engine & Thresher Co., Port Huron, Mich.**
Reeves & Co. (Weighers), Columbus, Ind,
Robinson & Co., Richmond, Ind.
Westinghouse Co. (Weighers), Schenectady., N. Y.

## 12997–Weighers (Locomotive, Portable)

**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**KENNICOTT CO., Sales Office: Corn** Exchange Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 12998–Weights (Counter)

King & Andrews Co. (Cast Iron), Chicago Heights, Ill.

## 12999–Weights (Elevator)

**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Central Foundry Co., Fort Wayne, Ind.
De Ved & Sons Sash Weight Co. (Lead, also Dumb Waiter), Baltimore, Md.
King & Andrews Co., Chicago Heights, Ill.
Kings County Iron Foundry, N 13th & Berry, Brooklyn, N. Y.
Levering Bros. (Also Bridge), 230 Hughes av, Baltimore, Md.

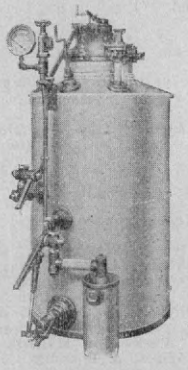
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## 13000—Weights (Hitching)

Barber Mfg. Co., Ashtabula, O.
Cheney, S. & Son, Manilus, N. Y.
Donaldson Bros., Mount Clemens, Mich.
Gowanda Agricultural Wks., Gowanda, N. Y.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
South Bend Foundry Co., South Bend, Ind.
Weller Hardware & Foundry Co., Horseheads, N. Y.
Western Foundry & Sash Weight Co., St. Louis, Mo.

## 13001—Welding (Autogenous)

American Oxygen Co. ("Oxy-Acetylene), Perry bldg, Phila., Pa. Works: Camden, N. J.

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This equipment is high grade—refined to perfect simplicity, strong in construction and reliable in operation. Action is entirely automatic. The Acetylene is generated by feeding Carbide in limited quantities into a relatively large body of water. Thus generation is cool and the breaking down of the Acetylene into other Hydro-Carbons requiring more Oxygen than pure Acetylene, is avoided.

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**Autogenous Welding Equipment Co. (Oxy-Acetylene), Springfield, Mass.**
Best Mfg. Co. (Oxy-Acetylene), Pittsburg, Pa.
**BRAUN, J. G. (Oxygen Acetylene), 615 S Paulina, Chicago, Ill., & 537 W 35th, New York.** (See adv. index, end of book)
Breck, Geo. (Oxy-Acetylene), 70 Turk, San Francisco, Cal.
Brown, Will H. (Apparatus), Schofield bldg, Cleveland, O.
Chicago Welding Co. (Oxy-Acetylene), 515 Laflin, Chicago, Ill.
Davis Acetylene Co. (Oxy-Acetylene), Elkhart, Ind.
Davis-Bournonville Co. (The Oxy-Acetylene Process for Welding & Cutting), 90 West, New York.
Delcampe Welding Co. (Portable Welding & Cutting Machines), Bridgeport, Conn.
Delcampe Welding Co., Astoria, Boro. of Queens, New York
Fore River Ship Building Co., Quincy, Mass.
General Welding Co. ("Beltzer", Oxy-Acetylene, Oxy-Benzine), Hoboken, N. J.
**GOODYEAR, NELSON (Inc.) ("Goodyear" Oxy-Acetylene Blow Pipe), 50 Church, New York.** (See adv. index, end of book)
Indutsrial Oxygen Co. ("Oxy-Acetylene" Oxygenite Process), Hanover B'k Bldg., New York.
Industrial Supply & Equipment Co. (Oxy-Acetylene), 407 Sansom, Phila., Pa.
Linde Air Products Co. (Oxy-Acetylene), Buffalo, N. Y.
**MACLEOD, WALTER & CO. (Plant** Mfrs.), 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Morgan, B. ("Morgan," Portable Oxy-Acetylene Outfit), Newport, R. I.
**PETROLEUM IRON WORKS CO.** (Oxy-Acetylene Process), Sharon, Pa. (See adv. index & branch offices, end of book)
Pollard Engineering Co. (Oxy-Acetylene Machines), 165 N Jefferson, Chicago, Ill.
Portland Co. (Oxy-Acetylene), Portland, Me.
Prentiss Tool & Supply Co. (Oxy-Acetylene), 145 Oliver, Boston, Mass.
Sanford, F. C., Mfg. Co. (Portable Oxy-Acetylene), Bridgeport, Conn.
**SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburg, Pa. (See adv. index, end of book)
Schaap Flaming Utilities Co., 344 Cumberland, Brooklyn, N. Y.
Whiteside Wheel Co. (Oxy-Acetylene), Indianapolis, Ind.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 13001a—Welding (Boiler Tube)

**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)

## 13002—Welding (Electric)

American Electric Welding Co., 752 B'way, New York
American Tube & Stamping Co., Bridgeport, Conn.
American Welding Co., Carbondale, Pa.
Columbiana Boiler Co., Columbiana, O.
Electric Welding Mfg. Co., McKees Rocks, Pa.
Electric Welding Products Co., Cleveland, O.
Lorain Steel Co. (Street Railway Track), Johnstown, Pa.
Michigan Welding Co., Jackson, Mich.
Standard Welding Co. (Iron & Steel, Thomson Process), Cleveland, O.
Thomson Electric Welding Co., Lynn, Mass.
Toledo Electric Welder Co. ("Spot Welding"), Cincinnati, O.
Universal Electric Welding Co., L. I. C., Welded Steel Barrel Corp., Detroit, Mich.

## 13003—Welding (Homogenous)

Miller Metal Work Co., Jersey City, N. J.

## 13004—Welding (Oxhydric Process)

American Oxhydric Co., Milwaukee, Wis.

## 13005—Welding (Oxy-Acetylene)

**GOODYEAR, NELSON (Inc.), 50 Church, New York.** (See adv. index, end of book)
**MACLEOD, WALTER & CO., 213 E** Pearl, Cincinnati, O. (See adv. index, end of book)

## 13005a—Welding (Steam Flue)

Fix's, S. Sons, Leonard c Winter, Cleveland, O.

## 13006—Welding (Thermit Process)

Goldschmidt Thermit Co., 90 West, New York

## Well Supplies (Artesian & Tubular)

(See Machinery, Well Drilling)

## Wharf Builders

(See Dock Builders)

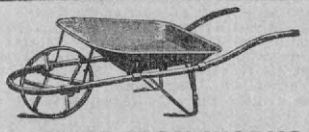
## 13007—Wheel Truing Device

Whitney Mfg. Co. (For Water Tool Grinders), Hartford, Conn.

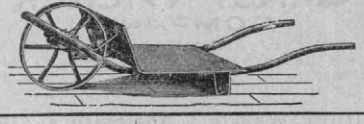
## 13008—Wheelbarrow Mfrs.

(See also Barrows, Various Kinds)

**ACME EQUIPMENT & ENGINEER**ing Co., Garfield bldg, Cleveland, O. (See adv. index, end of book)
Akron Cultivator Co. (Steel Gray), **Akron, O.**
American Fork & Hoe Co., Cleveland, O.
American Steel Scraper Co. (Wood & Steel), **Sidney, O.**
Ames Plow Co., Quincy Hall, Boston, Mass.
**ARCHER IRON WORKS CO. (Steel,** All Kinds), 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)

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CHICAGO, ILL.
Wheelbarrows and Industrial Cars
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Babcock Mfg. Co. ("Otsego"), Leonardsville, N. Y.
Biggs Boiler Works Co., Akron, O.
Bryan Mfg. Co. (Steel, etc.), Bryan, O.
Buch's, A. Sons (Wood), Elizabethtown, Pa.
Buffalo Scale Co., Buffalo, N. Y.
Chattanooga Wheelbarrow Co., **Chattanooga, Tenn.**
Cockburn Co. (Steel), Jersey City, N. J.
Dederick's, P. K. Sons, Albany, N. Y.
Defiance Box Co. (Wood), **Defiance, O.**
Eagle Machine Co., Lancaster, O.
**FAIRBANKS, MORSE & CO. (Jobbers, Railroad, Canal, etc.), 481 Wabash av, Chicago, Ill.** (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.), **York, Pa.**
Focht, George Sons (Steel), Hoboken, N. J.
Havana Metal Wheel Co. (Steel), Havana, Ill.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
**JACKSON MFG. CO. (Steel), 50** Church, New York; Works: Harrisburg, Pa. (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Jordan Wheelbarrow Co. (Wood), Jordan, N. Y.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Keystone Farm Machine Co. (Garden), York, Pa.
Kilbourne & Jacobs Mfg. Co. (For all Purposes), Columbus, O.
Lansing Wheelbarrow Co. (Steel & Wood), Lansing, Mich.

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McWhinnie, Thomas (Wooden), Poughkeepsie, New York
**MARSH-CAPRON MFG. CO. (All** Sizes & Kinds), 480 Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MARSH CO. (All Sizes & Kinds), 975** Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**MILWAUKEE CONCRETE MIXER &** Machinery Co. (Concrete & Contractors'), Milwaukee, Wis. (See adv. index & branch offices, end of book)
New York Wheelbarrow Co., 180 West, New York
**OIL WELL SUPPLY CO., 215 Water,** Pittsburg, Pa. (See adv. index, end of book)
**OSBORN MFG. CO. (Tubular Foun-**dry), 5401 Hamilton av, N E, Cleveland, Ohio. (See adv. index, end of book)
Portsmouth Machine & Casting Co., Portsmouth, O.
Prescott, Frank R. (Wood), Meredith, N. H.
Puffer-Hubbard Mfg. Co. (Steel & Wooden), Minneapolis, Minn.
Pugsley & Chapman, 180 West, New York.
**RANSOME CONCRETE MACHINERY** Co. (Steel & Wood"), Dunellen, N. J. (See adv. index & branch offices, end of book)
Sackett, H. B., Screen & Chute Co., 4210 State, Chicago, Ill.
Schalkenbach & Budke, Jersey City, N. J.
Sidney Steel Scraper Co. (Wood & Steel Frame), Sidney, O.
Simon, A. & Son, French, O.
**SMITH, T. L. CO., Majestic Bldg.,** Milwaukee, Wis. (See adv. index and branch offices, end of book)
Standard Mfg. Co., 41 Cortlandt, New York
Sterling Wheelbarrow Co. (Roller Bearing, Wood, Steel & Tubular Frame, Mortar, Concrete & Contractors, etc.), Milwaukee, Wis.
Stuebner, G. L. Iron Works (Steel, etc.), 12th & Vernon av, Long Island City, New York
Syracuse Chilled Plow Co. (Steel & Wood), Syracuse, N. Y.
Tanner, D. F. (Garden, etc.), Holland, N. Y.
Toledo Wheelbarrow Co. ("Bull Frog" Steel Tray & Wooden, etc.), Toledo, O.
Union Mfg. & Lumber Co. (Wood), Northville, Mich.
Western Wheelbarrow & Mfg. Co., Kansas City, Kan.

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Zering, H. Mfg. Co., 218 Charles, Cincinnati, O.

## 13009—Wheels (Agricultural Implement)

(See also Wheels, Metal)

**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
**LITTLE, J. R. METAL WHEEL** Co., Quincy, Ill. (See adv. index, end of book)

## 13010—Wheels (Automobile Steering)

(See also Gears, Automobile Steering)

Automobile Wheel Co., Lansing, Mich.
Barnes Tool Co. (For Yachts, etc.), New Haven, Conn.
Byrne, Kingston & Co. ("Kingston"), Kokomo,
Cambria Forge Co., Johnstown, Pa. Ind.
Centaur Motor Co., 59 Franklin, Buffalo, N. Y.
Columbus Brass Co., Columbus, O.
Cramp, Wm. & Sons, Beach & Wall sts., Philadelphia, Pa.
Hussey Drop Forge & Mfg. Co. (Slide, Tilting, Solid, etc.), Cleveland, O
Jamesville Mfg. Co., Jamesville, N. Y.
Mesinger, H. & P. Mfg. Co., 1807 1st av., New
Muncie Auto. Parts Co., Muncie, Ind. York
Rastetter, L. & Sons, Fort Wayne, Ind.
Smith, A. O. Co., Milwaukee, Wis.
Standard Welding Co., Cleveland, O.
Standard Wheel Co., Terre Haute, Ind.
Steam Carriage Boiler Co., Oswego, N. Y.
Tucker Wood Work Co., Muncie, Ind.
Warner Gear Co., Muncie, Ind.
Wayne Cabinet Co., Detroit, Mich.

## 13011—Wheels (Baby Carriage)

Erie Wheel Co., Cleveland, O.

## 13012—Wheels (Ball Bearing)

Gardner Sash Balance Co. (For All Purposes), 164 Dearborn, Chicago, Ill.
**McCABE HANGER MFG. CO., 425 W** 25th, New York. (See adv. index, end of book)
Pressed Steel Mfg. Co. ("Knipe" Small), Land Title bldg, Phila., Pa.

## 13013—Wheels (Barrow)

(See also Wheels, Metal)

**ELECTRIC WHEEL CO. (Steel),** Quincy, Ill. (See adv. index, end of book)
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
**JACKSON MFG. CO., 50 Church,** New York, & Harrisburg, Pa. (See adv. index, end of book)
**LITTLE, J. R. METAL WHEEL CO.,** Quincy, Ill. (See adv. index, end of book)

## 13014— Wheels (Brake)

Dayton Malleable Iron Co. ("Perfect"), Dayton, O.

## 13015—Wheels (Buffing & Polishing)

(See also Buffing & Polishing Machines)

Bacon Felt Co. (Felt), Winchester, Mass.
Bennett-O'Connell Co. (Canvas-Felt, Bull-Neck, etc.), 15 S Clinton, Chicago, Ill.
Builders' Iron Foundry, Providence, R. I.
Chicago Wheel & Mfg. Co. ("Chicago," Leather, Sheepskin, Canvas, Muslin, etc.), 1101 W. Monroe, Chicago, Ill.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Diamond Machine Co., Providence, R. I.
Divine Bros. Co. (The Compress), Utica, N. Y.
Dow Chemical Mfg. Co., Mansfield, O.
Eastern Felt Co., Winchester, Mass.
Easton Polishing Supply Co. (Wood Leather Covered, Sheepskin, Walrus, Canvas, Felt, Paper Wheels, Buffs, etc.), Easton, Pa.
Foot Mfg. Co. (Sheepskin, Solid Bull Neck Leather, Challenge Canvas, etc.), Jersey City, N. J.
Hanson & Van Winkle Co., Newark, N. J.
L'Hommedieu, Chas. F. & Sons Co. ("Reliance," Canvas, Sheepskin, etc.), 24 S Clinton, Chicago, Ill.
Logemann Bros. Co. ("Logemann" For Tanners, Glove Makers, etc.), Milwaukee, Wis.
Levett Mfg. Co. (Wood, Leather, etc.), Matawan, N. J.
Miller & Co. ("Walrine" Leather), Newark, N. J.
Nickel, Adolph Mfg. Co., Cincinnati, O.
Northampton Emery Wheel Co., Leeds, Mass.
Page Belting Co. (Leather Polishing), Concord, N. H.
Pfleghar Hardware Specialty Co. ("Peerless" Leather), New Haven, Conn.
Rockwood Mfg. Co. (Paper), Indianapolis, Ind.
Springfield Mfg. Co., Bridgeport, Conn.
Springfield Tire & Rubber Co. ("Springfield Abrasive Polishing Wheels & Blocks), Springfield, O.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Superior Corundum Wheel Co., Waltham, Mass.
Thayer, P. E. Co., Pawtucket, R. I.
Tingue, Brown & Co., 64 Reade, New York
**UNION ELEVATOR & MACHINE CO.,** (Muslin, Flannel, Woolen, etc.), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 13016— Wheels (Car)

(See also Wheels, Mine Car)

Albany Car Wheel Co., Albany, N. Y.
Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
American Car & Foundry Co. (Chilled, etc.), 915 Olive, St. Louis, Mo. and 165 B'way, New York.
American Steel Foundries ("Davis" Cast Steel), Commercial Bank bldg, Chicago, Ill.
Atlanta Car Wheel & Mfg. Co. (Chilled), Atlanta, Ga.
**ATLAS CAR & MFG. CO., 1289 Mar-**quette rd, N E, Cleveland, O. (See adv. index, end of book)
Baltimore Car-Wheel Co., Fulton Station, Baltimore, Md.
Barney & Smith Car Co., Dayton, O.
Barnum-Richardson Co., Lime Rock, Conn.
Bass Foundry & Machine Co., Fort Wayne, Ind.
Bloomsburg Car Mfg. Co., Bloomsburg, Pa.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Brown Car Wheel Works, Buffalo, N. Y.
Buda Co., Railway Exch bldg, Chicago, Ill.
Buffalo Car Wheel Foundry Co., Buffalo, N. Y.
Carnegie Steel Co. (Steel), Pittsburg, Pa.
Cayuta Mfg. Co., Sayre, Pa.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Chase Foundry & Mfg. Co., Columbus, O.
Chester Steel Castings Co., Chester, Pa.
Connellsville Machine & Car Co., Connellsville, Pa.
Decatur Car Wheel Co. of Georgia, Atlanta, Ga.
Dickson Car Wheel Co. (Chilled Car & Engine), Houston, Tex.
Eagle Iron Works., Terra Haute, Ind.
Ferguson & Lange Foundry Co. (Chilled), Clybourn av & Will av, Chicago, Ill.
Ford & Kimball, Concord, N. H.
Fort Wayne Foundry & Machine Co. (Car, Engine, Truck, Tender & Driving), Fort Wayne, Ind.
Griffin Wheel Co. (Chilled Iron Wheels of All Kinds), Main Office, McCormick bldg, Chicago, Ill.
Haskell & Barker Car Co., Michigan City, Ind.
Houston Car Wheel & Machine Co., Houston, Texas
Kilbourne & Jacobs Mfg. Co. (For Industrial Cars), Columbus, Ohio
Laconia Car Co., Works, 100 Boylston, Boston, Mass. Works: Laconia, N. H.
Lansing Wheelbarrow Co. (For Industrial Cars), Lansing, Mich.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Lima Locomotive & Machine Co., Lima, O.
Lobdell Car Wheel Co., Wilmington, Del.
Louisville Car Wheel & Railway Supply Co., Louisville, Ky.
**McCOY, HENRY J. CO., 65 & 67 Dey,** New York. (See adv. index, end of book)
Manistee Iron Works Co., Manistee, Mich.
Marshall Car Wheel & Foundry Co., Marshall, Tex.
Mount Vernon Car Mfg. Co., Mt. Vernon, Ill.
Mesta Machine Co. (Steel), Pittsburg, Pa.
National Car Wheel Co. (Chilled Iron), Pittsburg, Pa.
New York Car Wheel Co. (All Kinds), Buffalo, N. Y.
Ohio Ceramic Engineering Co. (For Industrial Cars), Cleveland, O.

ORENSTEIN-ARTHUR KOPPEL
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Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Penna. Car Wheel Co., Pittsburg, Pa.
Pennsylvania Casting & Machine Co. (For Mine Locomotives, Street Cars, etc.), N S, Pittsburg, Pa.
Portage Lake Foundry & Machinery Co. (Chilled), Hancock, Mich.
Ramapo Foundry & Wheel Works, Ramapo, N. Y.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
St. Louis Car Wheel Co. (Chilled), St. Louis,
St. Paul Foundry Co., St. Paul, Minn. Mo.
Sanford-Day Iron Works ("Whitney"), Knoxville, Tenn.
Sheffield Car Co. (Wrought, Steel & Cast), Three Rivers, Mich.
Standard Car Wheel Co. (Chilled), Cleveland, O.
Steiger & Kerr Stove & Foundry Co., San Francisco, Cal.
Taylor Iron & Steel Co., High Bridge, N. J.
Tredegar Co., Richmond, Va.
Watt Mining Car Wheel Co., Barnesville, O.

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## 13017—Wheels (Car, Ball or Roller Bearing)

Buda Co., Railway Exch bldg, Chicago, Ill.
Chase Foundry & Mfg. Co., Columbus, O.

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## 13018—Wheels (Carborundum Grinding)

Carborundum Co., Niagara Falls, N. Y.

## 13019—Wheels (Caster)

(See also Caster Manufacturers)

American Wood Working Co. (Wood), 19 Warren, New York
Bogert & Hopper Co. (Wooden), 162 William, New York
Estes. E. B. & Sons (Wooden), 74 Warren, New York
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Peters', Jno. M. Sons (Wood Caster Rolls), Bleecker, N. Y.
Rockford Leather Washer Co. (Leather), Rockford, Ill.
Sommer, Jno. Faucet Co. (Wooden), Newark, N. J.
Union Porcelain Works (Porcelain), 300 Eckford, Brooklyn, N. Y.
Williams & Marvin Mfg. Co. (Wood), Deep River, Conn.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 13020—Wheels (Chilled Bridge)

**ATLAS CAR & MFG. CO., 1289 Marquette rd,** N. E, Cleveland, O. (See adv. index, end of book)
Lobdell Car Wheel Co., Wilmington, Del.

## 13021—Wheels (Concrete Mixer)

(See Wheels, Metal)

## 13022—Wheels (Counting & Printing)

Franklin, H. H. Mfg. Co., Syracuse, N. Y.

## 13022a—Wheels (Derrick Bull)

**UNION ELEVATOR & MACHINE CO.** (For Swinging Booms on Derricks), 215 W Ontario, Chicago, Ill. (See adv. index, end of book)

## 13023— Wheels (Disc)

Buffalo Forge Co., Buffalo, N. Y.

## 13024—Wheels (Driving)

American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
Baltimore Car Wheel Co., Fulton Station, Baltimore, Md.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Chester Steel Castings Co., Chester, Pa.
Commonwealth Steel Co. ("Davis" Steel), St. Louis, Mo.
**FAIRBANKS, MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Falk Co., Milwaukee, Wis.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)
**Lehigh Car Wheel & Axle Works, Catasauqua,** Pa.
Nagle Corliss Engine Works (For Power Drive), Erie, Pa.
National Car Wheel Co., Pittsburg, Pa.
New York Car Wheel Co., Buffalo, N. Y.
Ramapo Iron Works, Hillburn, N. Y.
Wason Mfg. Co., Brightwood, Springfield, Mass.

## 13025—Wheels (Driving, Steel Tired)

(See Wheels, Steel Tired Car)

## 13026—Wheels (Dry Kiln)

(See also Wheels, Metal)

Bates Forge Co., Indianapolis, Ind.
Chase Foundry & Mfg. Co., Columbus, O.
**ELECTRIC WHEEL CO., Quincy, Ill.** (See adv. index, end of book)
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

## 13027— Wheels (Felt)

Eastern Felt Co. (For Polishing, etc.), Winchester, Mass.

## 13028— Wheels (Fifth)

Akron-Selle Co., Akron, Ohio
American Roller Bearing Fifth Wheel Co., 745 3d av, Brooklyn, N. Y.
Bradley, C. C. & Son, Syracuse, N. Y.
Columbus Bolt Works, Columbus, O.
Dayton Malleable Iron Co., Dayton, O.
Empire Roller Fifth Wheel Works, Quincy, Ill.
Gogel Mfg. Co. (Center & Rear King Bolt), Toledo, O.
Keystone Forging Co., Northumberland, Pa.
Millersburg Fifth Wheel Co., Millersburg, Pa.
National Safety Fifth Wheel Co., Lancaster, Pa.
Weston-Mott Co., Flint, Mich.
Wilcox, D., Mfg. Co. (Full Line), Mechanicsburg, Pa.

## 13029—Wheels (Flange)

Avery Stamping Co. ("Never Break" Steel), Cleveland, O.
Bates Forge Co. (Drop Forged), Indianapolis, Ind.

## 13030— Wheels (Fly)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO.** (Small & Large), 17th & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
Cooper, C. & G. Co., Mount Vernon, O.
Cresson, Geo. V. Co. (Up to 30 ft.), Allegheny av. W. of 17th, Phila., Pa.
Danville Foundry & Machine Co., Danville, Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eyster, Weiser & Co. (Ltd.), York, Pa.
Fairbanks Co. (Specialty. Automatic, Gas & Steam Engine Wheels), Springfield, O.
Filer & Stowell Co., Milwaukee, Wis.
Goodnow, L. H. Fdy. Co. (Finished Ready for Engine), Fitchburg, Mass.
Great Lakes Engineering Works, Detroit, Mich.
Hill Clutch Co., Cleveland, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lehigh Foundry Co. (To Any Size), Fullerton, Pa.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Medart Patent Pulley Co., St. Louis, Mo.
Nagle Corliss Engine Works (Extra Heavy. etc.), Erie, Pa.
Nordberg Mfg. Co., Milwaukee, Wis.
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa
Platt Iron Works Co., Dayton, O.
Poole Engineering & Machine Co. (Up to 50 ft. Diameter & 12 ft. Face), Woodberry Station, Baltimore, Md.
Porter Foundry & Machine Co., Pittsburg, Pa.
Southwark Foundry & Machine Co., Phila., Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. (See adv. index & branch offices, end of book)
Wood's, T. B. Sons Co., Chambersburg, Pa.

## 13031—Wheels (Gear, Hard Fibre)

**AMERICAN VULCANIZED FIBRE** Co., Wilmington, Del. (See adv. index, end of book)
**CONTINENTAL FIBRE CO., Newark** Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO., Wilmington,** Del. Works: Marshalltown, Del (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Del. (See adv. index, end of book)
**PARKER, J. C. & SONS FIBRE CO.,** New Castle, Del. (See adv. index, end of book)
**WILMINGTON FIBRE SPECIALTY** Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## 13032—Wheels (Gliding)

Coe, W. H. Mfg. Co. ("Coe's" & "Coe's" Ribbon Gold Leaf for Car Shops, etc.), Providence, R. I.

## 13033—Wheels (Hand Chain)

**READING CRANE & HOIST WORKS,** Reading, Pa. (See adv. index, end of book)

## 13034—Wheels (Hand & Push Car)

Atlas Bolt & Screw Co., Cleveland, O.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
Eyster, Weiser & Co. (Ltd.), York, Pa.
**FAIRBANKS, MORSE & CO. (Pressed** Steel, etc.), 481 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Franklin, H. H. Mfg. Co. (Finished Castings), Syracuse, N. Y.
Kalamazoo Railway Supply Co. (Pressed Steel), Kalamazoo, Mich.
Lansing Wheelbarrow Co., Lansing, Mich.
**LITTLE, J. R. METAL WHEEL CO.,** Quincy, Ill. (See adv. index, end of book)
Lobdell Car Wheel Co., Wilmington, Del.
New York Car Wheel Co., Buffalo, N. Y.
Peteler Car Co., Minneapolis, Minn.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.

## 13035—Wheels (Logging)

Streich, A. & Bro. Co. (10 to 12 Feet), Oshkosh, Wis.

## 13036—Wheels (Logging Car)

American Car & Foundry Co. (Self-Oiling), 915 Olive, St. Louis, Mo. & 165 B'way, New York.
Buda Co., Railway Exch bldg, Pittsburg, Pa.
Butterworth & Lowe, Grand Rapids, Mich.
**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
Helmick Foundry & Machine Co., Fairmont, W. Va.
Holt Mfg. Co., Stockton, Cal.
Kilby Locomotive & Machine Works, Anniston, Ala.
Lansing Wheelbarrow Co., Lansing, Mich.
**LITTLE, J. R. METAL WHEEL CO.** (Steel), Quincy, Ill. (See adv. index, end of book)
Lobdell Car Wheel Co., Wilmington, Del.
Medart Patent Pulley Co. (Lumber Truck). St. Louis, Mo.

**ORENSTEIN-ARTHUR KOPPEL COMPANY**
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Peteler Car Co., Minneapolis, Minn.
Ramapo Fdry. & Machine Wks., Ramapo, N. Y.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
St. Louis Car Wheel Co. (Chilled), St. Louis, Mo.
Sheffield Car Co., Three Rivers, Mich.

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## 13036a—Wheels (Marble & Granite Polishing)

Harrison Supply Co., 5 & 7 Dorchester av Extension, Boston, Mass.

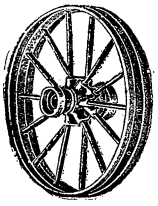
## 13037—Wheels (Marine Steering)

(See also Gears, Marine Steering)

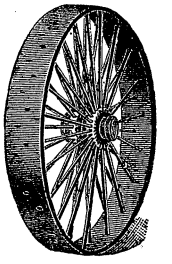
Barnes Tool Co., New Haven, Conn.
Byrne, Kingston & Co. ("Kingston"), Kokomo, Ind.
Edson Mfg. Co., 255 Atlantic av, Boston, Mass.
Laughlin, Thomas Co., Portland, Me.
Turner Brass Works, Sycamore, Ill.

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**For any purpose, any size or width of Tire. To fit any kind or size of Axle.**

**WHEELS** for Truck Wagons, Contractors' Wagons and Carts, Farm Implements, CONCRETE MIXERS, Road Machinery, Log Wagons, Portable Mounts, TRACTION ENGINES, Heavy Trucks of all kinds.

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## ELECTRIC WHEEL CO., Station D, QUINCY, ILL., U. S. A.


## 13038– Wheels (Metal)

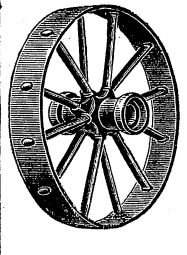
American Steel Wheel Co., Alexandria, Ind.
Bay State Metal Wheel Co., East Templeton, Mass.
Bush, Clement, Quincy, Ill.
**ELECTRIC WHEEL CO. (Steel** Wagon, Carts, etc.), Quincy, Ill. (See adv. index, end of book)
Empire Mfg. Co., Quincy, Ill.
Empire State Metal Wheel Co., Fort Plain, N. Y.
Farmers' Handy Wagon Co., Saginaw, Mich.
French & Hecht, Davenport, Ia.
Fuller & Johnson Mfg. Co., Racine, Wis.
Geneva Metal Wheel Co., Geneva, O.
Heartley Machine, Variety Iron & Tool Works (Children's Carriage, Wheelbarrow, Implements, etc.), Toledo, O.
Havana Metal Wheel Co., Havana, Ill.
**JACKSON MFG. CO., 50 Church,** New York, & Harrisburg, Pa. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co. ("Lewis" Steel Spoke), Columbus, O.
Knox Metal Wheel Co., Knox, Ind.
Lansing Wheelbarrow Co., Lansing, Mich.
**LITTLE, J. R. METAL WHEEL CO.** (For All Purposes), Quincy, Ill. (See adv. index, end of book)
Mott Wheel Works (Wire), Utica, N. Y.
Niles & Scott Co., Laporte, Ind.
Peru Plow & Wheel Co., Peru, Ill.
Prudden, W. K. & Co., Lansing, Mich.
Quincy Corn Planter Co., Quincy, Ill.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
Shunk Plow Co. (Steel for Farm Wagons), Bucyrus, O.
Sidney Steel Scraper Co. ("Haslup's" Steel), Sidney, O.
Toledo Metal Wheel Co. (Small Wheels for Toy Automobiles, Baby Carriages, etc.), Toledo, Ohio.
Western Wheelbarrow & Mfg. Co., Kansas City, Kans.
Weston-Mott Co. (Steel Wire), Flint, Mich.
Whiteside Wheel Co. ("Ste-El-Astic"), Indianapolis, Ind.
**WORCESTER PRESSED STEEL CO.** (Steel), Worcester, Mass. (See adv. index & branch offices, end of book)

## 13039–Wheels (Mine Car)

Adams, S. Jarvis Co., Pittsburg, Pa.
Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
American Car & Foundry Co. (Self-Oiling), 915 Olive, St. Louis, Mo. & 165 B'way, New York.
American Steel Foundries, Chester, Pa.
American Steel Foundries, Commercial Nat'l Bank bldg, Chicago, Ill.
**ARCHER IRON WORKS CO. (Self-**Oiling), 34th pl & Western av, Chicago, Ill. (See adv. index, end of book)
Atlanta Car Wheel & Mfg. Co., Atlanta, Ga.
**ATLAS CAR & MFG. CO., 1289 Mar-**quette rd, N E, Cleveland, O. (See adv. index, end of book)
Bartlett & Co., Saginaw, Mich.
Bowler Fdy. Co. (Chilled), Cleveland, O.
Buda Co., Railway Exch bldg, Chicago, Ill.
**CANTON FOUNDRY & MACHINE C.,** Canton, O. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Connellsville Machine & Car Co., Connellsville, Pa.
Danville Foundry & Machine Co., Danville, Ill.
Eagle Foundry & Machine Co., Fort Scott, Kan.
Enterprise Foundry & Machine Works (A. W. Whitney's" Self-Oiling), Bristol, Tenn.
Eyster, Weiser & Co. (Ltd.), York, Pa.
**FAIRBANKS MORSE & CO., 481** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairmont Mining Machinery Co. (Self-Oiling), Fairmont, W. Va.
Fulton Pit Car Co. (Semi-Steel), Canal Fulton, Ohio
Griffin Wheel Co., McCormick bldg, Chicago, Ill.
Gustafson Mfg. Co. ("Gustafson" Self-Oiling Roller Bearing), Chattanooga, Tenn.
Harman & Hassert, Bloomsburg, Pa.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hempfield Foundry Co., Greensburg, Pa.
Herzler & Henninger Machine Works, Belleville, Ill.
Hockensmith Wheel & Mine Car Co. ("Eureka" Waste Packed), Penn Station, Pa.
Irwin Foundry & Mine Car Co. ("Eureka" Waste Packed), Irwin, Pa.
Kanawha Mine Car Co. (Wheels & Axles), Charleston, W. Va.
Kilby Locomotive & Machine Works, Anniston, Ala.
Lansing Wheelbarrow Co., Lansing, Mich.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Litchfield Fdry. & Mach. Co., Litchfield, Ill.
Lobdell Car Wheel Co. ("Faught's", Closed Hub, Self-Oiling Chilled Wheels), Wilmington, Del.
**MacKINNON BOILER & MACHINE** Co., Bay City, Mich. (See adv. index, end of book)
Massillon Foundry & Machine Co., Massillon, Ohio
Mineral Ridge Mfg. Co., Mineral Ridge, O.
Nelsonville Foundry & Machine Co. (Self-Oiling Capless), Nelsonville, O.
New York Car Wheel Co., Buffalo, N. Y.
Niles Mine & Supply Co., Niles, O., & Williamson bldg, Cleveland, O.


## ORENSTEIN-ARTHUR KOPPEL COMPANY


Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Pennsylvania Casting & Machine Co. (Wheels & Axles), N S, Pittsburg, Pa.
Peteler Car Co. (Chilled Iron, etc.), Minneapolis, Minn.

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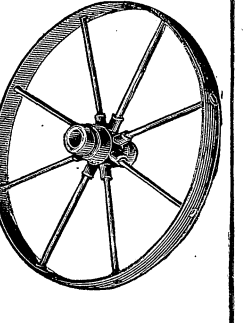
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SOLID STEEL AXLES FOR TRUCKS

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Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Ramapo Fdry. & Wheel Works, Ramapo, N.Y.
Reliance Steel Casting Co., Pittsburg, Pa.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)
St. Louis Car Wheel Co. (Chilled), St. Louis, Mo.
Sanford-Day Iron Works ("Whitney" Roller Bearing), Knoxville, Tenn.
Sheffield Car Co., Three Rivers, Mich.
Star Mfg. Co., New Lexington, O.
Stine, S. B., Osceola Mills, Pa.
Taylor Iron & Steel Co., High Bridge, N. J.
Union Iron Works (Inc.), Spokane. Wash.
Vulcan Iron Works, Wilkes-Barre, Pa.
Watt Mining Car Wheel Co. (Self-Oiling), Barnesville, Ohio.

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## 13040—Wheels (Pipe Cutter)

**NATIONAL-ACME MFG. CO., 7500** Stanton av., S. E., Cleveland, O. (See adv. index & branch offices, end of book)
Reed Mfg. Co., Erie, Pa.

## Wheels (Polishing)

(See Wheels, Buffing & Polishing)

## 13041—Wheels (Polishing, Compressed Linen)

Kortum Mfg. Co. ("Kortum"), Buffalo, N. Y.

## 13042—Wheels (Pressed Steel)

Buda Co., Railway Exch bldg, Chicago, Ill.
Clark, W. J., Salem, Ohio
**FAIRBANKS, MORSE & CO., 4S1** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co. ("Kalamazoo" for Hand & Push Cars), Kalamazoo, Mich.
Oneida Steel Pulley Co., Oneida, N. Y.
**WORCESTER PRESSED STEEL CO.,** Worcester, Mass. (See adv. index & branch offices, end of book)

## 13043—Wheels (Propeller)

(See also Ship Builders)

Barber Bros. (Reversing), Syracuse, N. Y.
Bay City Iron Co., Bay City, Mich.
Bayonne Casting Co. (Monel Metal), Bayonne, N. J.
Cahill, W. S. Co., Baltimore, Md.
Case Machine Co., Highland Park, Conn.
Chester Steel Casting Co., Chester, Pa.
Cramp, Wm. & Sons Ship & Engine Building Co., Phila., Pa.
Cross Gear Engine Co., Detroit, Mich.
Duluth Gas Engine Works ("Crescent"), Duluth, Minn.
Ferguson, F. & Son, Hoboken, N. J.
Gibson & Kirk Co. (Brass for Launches, etc.), 517 E Montgomery, Baltimore, Md.
Great Lakes Engineering Works, Detroit, Mich.
Lacy, Jas. J. Co., Baltimore, Md.
Lake Shore Engine Works ("New Superior" Reversible), Marquette, Mich.
Lockwood Mfg. Co., Boston, Mass.
McFarland Foundry & Machine Works ("Harthan"), Trenton, N. J.
**MacKINNON BOILER & MACHINE** Co. (Specialty, Small Yacht Wheels), Bay City, Mich. (See adv. index, end of book)
Marine Hardware Co. ("Geyer" Reversible), Peabody, Mass.
Michigan Wheel Co., Grand Rapids, Mich.
Montague Iron Works Co., Montague, Mich.
**MORRIS MACHINE WORKS, Baldwinsville,** N. Y. (See adv. index & branch offices, end of book)
New London Marine Iron Works, New London, Conn.
New York Gear Works, 56 Greenpoint av., Brooklyn, N. Y.
Norwalk Brass Co., Norwalk, Conn.
Penn Steel Casting & Machine Co., Chester, Pa.
Pusey & Jones Co. (Also Gearing Wheels), Wilmington, Del.
Reeves, Paul & Son ("Reeves" Tubal Manganese Bronze, also Brass, Bronze & Phosphor Bronze), 1415 Cathrine, Phila., Pa.
Roper, C. F. & Co. ("Roper"), Hopedale, Mass.
Seaboard Steel Casting Co., Chester, Pa.
Sheriff's Mfg. Co., Milwaukee, Wis.
Shriver, T. & Co., Harrison, N. J.
Sterling Engine Co. ("Sterling" Reversible Blade for Motor Boats), Buffalo, N. Y.
Sullivan, Jno. W. Co., 827 E 9th, New York
**THROPP'S, JOHN E. SONS CO., ft. of** Lewis, Trenton, N. J. (See adv. index, end of book)
Trout, H. G., Buffalo, N. Y.
Truscott Boat Mfg. Co. (For Pleasure Crafts), St. Joseph, Mich.
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
**WILMARTH & MORMAN CO.** ("Sintz"), 585 Canal, Grand Rapids, Mich. (See adv. index, end of book)

## 13044—Wheels (Radiator Valve, Wood)

(See also Wheels, Valve)

Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York.
Novelty Turning Co., Norway, Me.
Thayer, Geo. A., Spruce Corner, Mass.

## 13045—Wheels (Ratchet Brake)

**AMERICAN VULCANIZED FIBRE** Co., (Fibre), Wilmington, Del. (See adv. index, end of book)
Baker, John S. ("Beverly" Ratchet Clutch Vertical, for Vestibuled Street Cars), Beverly, Mass.

## 13046—Wheels (Reducing)

(See also Indicators; also Planimeters)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashcroft Mfg. Co., 85 Liberty, New York
Bushnell, John S. & Co. ("Ideal"), 174 Fulton, New York
**CROSBY STEAM GAGE & VALVE CO.,** 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Dean, H. C. Machine Co. ("Tolman"), Fitchburg, Mass.
Hall Mfg. Co. ("Hall's" Improved), John & Cliff, New York
Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
Mallery-Maschke Co. (Indicator), 123 Liberty, New York
Robertson, Jas. L. & Sons Co. ("The Victor"), 204 Fulton, New York
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Thompson, Richard & Co. ("Ideal"), 126 Liberty, New York
Trill Indicator Co. ("Faultless"), Corry, Pa.
Watts Regulator Co., Lawrence, Mass.
Webster & Perks Tool Co. (Aluminum), Springfield, O.

## Wheels (Roller Bearing)

(See Wheels & Axles, Ball & Roller Bearing)

## 13047—Wheels (Roller Skate)

**AMERICAN VULCANIZED FIBRE** Co. (Fibre), Wilmington, Del. (See adv. index, end of book)
Bogert & Hopper Co., 162 William, New York
**CONTINENTAL FIBRE CO. (Vulcanized** Fibre), Newark Centre, Del. (See adv. index & branch offices, end of book)
**DELAWARE HARD FIBRE CO.,** (Fibre), Wilmington, Del., Works: Marshalltown, Del. (See adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,** Ill. (See adv. index, end of book)
Estes, E. B. & Sons (Wooden), 74 Warren, New York
**PARKER, J. C. & SONS FIBRE CO.** (Fibre), New Castle, Del. (See adv. index, end of book)

## 13048—Wheels (Rubber Tired)

Clark, Geo. P. Co., Windsor Locks, Conn.
Lansing Wheelbarrow Co. (Truck), Lansing, Mich.
Meeker Mfg. Co., Dayton, O.

## 13049— Wheels (Self-Oiling)

(For Mine & Other Light Cars)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
American Car & Foundry Co., 915 Olive. St. Louis, Mo. & 165 B'way, New York.
**ATLAS CAR & MFG. CO. ("Wright"),** 1289 Marquette rd, Cleveland, O. (See adv. index, end of book)
**CENTRAL IRON WORKS (For Coal** Cars), Quincy, Ill. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Chrome Steel Works (Mine Car, Canada Patent), Chrome, N. J.
Davis, F. M. Iron Works Co., Denver, Col.
Denver Engineering Works Co., Denver, Col.
**FAIRBANKS, MORSE & CO., 4S1** Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairmount Mining Machinery Co. (Mine Car), Fairmount, W. Va.
Gustafson Mfg. Co. ("Gustafson," for Mine Cars), Chattanooga, Tenn.
Helmick Foundry & Machine Co. (Chilled), Fairmont, W. Va.
Lansing Wheelbarrow Co., Lansing, Mich.
Lehigh Car Wheel & Axle Wks., Catasauqua, Pa.
Lobdell Car Wheel Co. ("Faught's, Closed Hub), Wilmington, Del.
Mine & Smelter Supply Co., 42 B'way, New York, & Denver, Col.

ORENSTEIN-ARTHUR KOPPEL
COMPANY
Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Peteler Car Co., Minneapolis, Minn.
Phillip's Mine Supply Co., Pittsburg, Pa.
Ralston Steel Car Co., Columbus, O.
Stine, S. B., Osceola Mills, Pa.
Truax Mfg. Co., 1725 Wazee, Denver, Coy.
Union Iron Works, Spokane, Wash.
Watt Mining Car Wheel Co. (Mine Car), Barnesville, O.

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

## 13050— Wheels (Skip)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.

## 13050a—Wheels (Solid Rubber)

**HOME RUBBER CO. (Brewers', etc.),** Trenton, N. J. (See adv. index & branch offices, end of book)

## 13051—Wheels (Sprocket)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
**BARTLETT, C. O. & SNOW CO.,** French, Cleveland, O. (See adv. index & branch offices, end of book)
Blount & Lovell, Boston, Mass.
**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**CALDWELL, H. W. & SON CO., 17th** & Western av, Chicago, Ill. (See adv. index & branch offices, end of book)
**CHAIN BELT CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**CHISHOLM & MOORE MFG. CO.,** (Chain), 49th & Lake, Cleveland, O. (See adv. index, end of book)
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Cullman Wheel Co., 1346 Greenwood ter., Chicago, Ill.
**DAVIS, RODNEY, 626 Race, Phila.,** Pa. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Diamond Iron Works (For Saw Mills, etc.), Minneapolis, Minn.
Dodge Mfg. Co., Mishawaka, Ind.
Filer & Stowell Co., Milwaukee, Wis.
**FOOTE BROS. GEAR & MACHINE** Co. (Plain or Hub), 210 N Carpenter, Chicago, Ill. (See adv. index, end of book)
**GANSCHOW, WM. CO. (Plain or** Hub), 1011 Washington boul., Chicago, Ill. (See adv. index, end of book)
Garland, M. Co., Bay City, Mich.
Great Western Mfg. Co., Leavenworth, Kan.
Greenwald, I. & E. Co., Cincinnati, O.
Indianapolis Drop Forging Co., Indianapolis, Ind.
James, D. O. Mfg. Co. (Plain or Hub), 1129 W Monroe, Chicago, Ill.

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**JEFFREY MFG. CO., Columbus, O.;** (See adv. index & branch offices, end of book)
Jones, W. A. Fdry. & Machine Co. (For Chain Drives, Gearing), 1401 W North av, Chicago, Ill.
**LINK BELT COMPANY, Hunting** Park av. & Reading Ry., Phila, Pa. (See adv. index & branch offices, end of book)
**MEAD-MORRISON MFG. CO., Cam-**bridge (Boston), Mass. (See adv. index & branch offices, end of book)
Medart Patent Pulley Co., St. Louis, Mo.
New England Gear Works, Boston, Mass.
Michigan Sprocket Chain Co., Detroit, Mich.
**MINNEAPOLIS STEEL & MACHIN-**ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moline Malleable Iron Co., St. Charles, Ill.
Muncie Gear Works, Muncie, Ind.
Nordyke & Marmon Co., Indianapolis, Ind.
Parish & Bingham Co. (Motorcycle), Cleveland, O.
Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
**PITTSBURG CONVEYING MACHIN-**ery Co. (For All Styles of Chain), Pittsburg, Pa. (See adv. index, end of book)
Port Huron Engine & Thresher Co., Port Huron, Mich.
Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.
Portland Iron Works, Portland, Ore.
Pyott Co., 945 Carroll av, Chicago, Ill.
**READING CRANE & HOIST WORKS,** Reading Pa. (See adv. index, end of book)
Skillin & Richards Mfg. Co., 46th av & Courtland, Chicago, Ill.
Spacke, F. W. Machine Co., Indianapolis, Ind.
**STANDARD SAND & MACHINE CO.** 5157 St. Clair, Cleveland, O. (See adv. index, end of book)
Stephens-Adamson Mfg. Co., Aurora, Ill.
Taylor Iron & Steel Co., High Bridge, N. J.
Tioga Foundry Co., 22nd & Allegheny av., Phila., Pa.
**WEBSTER MFG. CO., 2410 W 15th,** Chicago, Ill. & 88 Reade, New York. (See adv. index & branch offices, end of book)
Wolf Co., Chambersburg, Pa.

## 13052—Wheels (Steel Tired Car)

**GENERAL ELECTRIC CO., Schenec-**tady, N. Y. (See adv. index & branch offices, end of book)
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Lobdell Car Wheel Co., Wilmington, Del.
Prosser, Thos. & Son (the Krupp), 15 Gold, New York.
Railway Steel Spring Co. (For Electric Railway Cars), ("Paige" Spoke & Plate Engine Truck, "Paige," "Allen," "Boies" Spoke Engine & Coach or Tender, etc.), 30 Church, New York.
Standard Steel Works Co. (Car & Locomotive), Harrison Bldg., Phila., Pa.
Taylor Electric Truck Co., Troy, N. Y.
Taylor Iron & Steel Co., High Bridge, N. J.

## 13053—Wheels (Steel Truck)

(See also Wheels, Metal)

Allen, Edgar American Manganese Steel Co., 193 Michigan av, Chicago, Ill.
Buda Co., Railway Exch. bldg., Chicago, Ill.
Chase Foundry & Mfg. Co., Columbus, O.
**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kilburne & Jacobs Mfg. Co., Columbus, O.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
**LITTLE, J. R. METAL WHEEL CO.,** Quincy, Ill. (See adv. index, end of book)
Niles & Scott Co., La Porte, Ind.
Pratt Engineering & Machine Co., Atlanta, Ga.
Prosser, Thos. & Son ("The Krupp"), 15 Gold, New York
Railway Steel Spring Co., 30 Church, New York
Sheffield Car Co., Three Rivers, Mich.

## 13054—Wheels (Steel Vehicle)

(See also Wheels, Metal)

American Steel Wheel Co., Alexandria, Ind.
Bryant Steel Wheel & Rim Co., Columbus, O.
**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
Geneva Metal Wheel Co., Geneva, O.
Newton Steel Wheel Co., Kalamazoo, Mich.

## Wheels (Steering)

(See Wheels, Automobile Steering; also Wheels, Marine Steering)

## 13055—Wheels (Street Car)

American Car & Foundry Co., St. Louis, Mo., & 165 B'way, New York
Atlanta Car Wheel & Mfg. Co. (Reinforced Spoke), Atlanta, Ga.
Baltimore Car Wheel Co., Fulton Station, Baltimore, Md.
Brill, J. G. Co., Phila., Pa.
Carnegie Steel Co. ("Schoen," Solid Forged & Rolled Steel), Pittsburg, Pa.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Chrome Steel Works, Chrome, N. J.
Griffin Wheel Co., McCormick bldg, Chicago, Ill.
Laconia Car Co. Works, 100 Boylston, Boston, Mass. Works, Laconia, N. H.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Lobdell Car Wheel Co., Wilmington, Del.
National Car Wheel Co. (Chilled Iron), Pittsburg, Pa.
New York Car Wheel Co., Buffalo, N. Y.
Phila. Car Wheel Co., Betz bldg, Phila., Pa. Works, Black Rock, Buffalo, N. Y.
Railway Steel Spring Co. (Steel Tired Motor), 30 Church, New York.
St. Louis Car Wheel Co. (Reinforced Spoke), St. Louis, Mo.
Standard Car Wheel Co. (Chilled), Cleveland, Ohio
Standard Steel Works C. (Rolled Steel), Harrison Bldg., Phila., Pa.
Taylor Iron & Steel Co., High Bridge, N. J.

## 13056—Wheels (Tire Measuring)

**WELLS BROS. & CO., Greenfield,** Mass. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

## 13057—Wheels (Tracing)

**ARCADE MFG. CO., Freeport, Ill.** (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co., Harrison, N. J.

## 13058—Wheels (Traveling Crane)

Allen, Edgar American Manganese Steel Co. (Manganese Steel), 193 Michigan av, Chicago, Ill.
Lobdell Car Wheel Co. (Chilled Double Flange), Wilmington, Del.
New York Car Wheel Co., Buffalo, N. Y.
**RUSSEL WHEEL & FOUNDRY CO.,** Detroit, Mich. (See adv. index, end of book)

## 13059—Wheels (Trolley)

Ajax Metal Co., 46 Richmond, Phila., Pa., & Birmingham, Ala.
Anderson, Albert & J. M. Mfg. Co. ("West End," Made of Special Metal), 287a, S B, Boston, Mass.
Archer Trolley Harp Co., Marquette bldg, Chicago, Ill.
Bayonet Trolley Harp Co. ("Bayonet," Pure Copper, Self-Lubricating), Springfield, O.
Benedict & Burnham Mfg. Co. ("Franklin"), Waterbury, Conn.
Brady Brass Co. ("Cyprus"), Jersey City, N. J.
Buckeye Iron & Brass Works (Bronze), Dayton, Ohio
Central Union Brass Co., St. Louis, Mo.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Copper Roller Bearing Trolley Wheel Co., Cox-Dayton Mfg. Co., Dayton, O. sackie, N. Y.
Detroit Trolley Wheel & Elec. Equipment Co. ("Feltoyler"), Detroit, Mich.
Edna Brass Mfg. Co., Cincinnati, O.
Electric Ry. Equipment Co., Cincinnati, O.
Electric Traction Supply Co. (Pure Copper), St.
Erie Malleable Iron Co., Erie, Pa. Louis, Mo.
Eureka Tempered Copper Works (Bronze), North East, Pa.
Garton, W. R. Co. ("Garton," "Urban," "Interurban"), 118 W Jackson boul, Chicago, Ill.
**GENERAL ELECTRIC CO. (Composed** of a Copper Alloy. Self-Lubricating), Schenectady, N. Y. (See adv. index & branch offices, end of book)
Graham, Jas. & Co., New Haven, Conn.
Hercules Metal Works (Bronze), Catasauqua, Pa.
Holland Trolley Supply Co., Cleveland, O.
International Register Co. ("Excelsior"), 625 W Jackson boul, Chicago, Ill.
Ives, H. B. Co. ("New Haven"), New Haven, Conn.
**JOHNS, H. W.-MANVILLE CO. ("J-**M"), 100 William, New York. (See adv. index & branch offices, end of book)
**LUMEN BEARING CO. ("Ideal,"** Wearing Part is Made of Drop Forged Copper), Buffalo, N. Y. (See adv. index, end of book)
Magnus Metal Co., Buffalo, N. Y.
More-Jones Brass & Metal Co., St. Louis, Mo.
National Brass Mfg. Co., Rochester, N. Y.
New Departure Mfg. Co., Bristol, Conn.
**NUTTALL, R. D. CO., Fayette &** Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
Ridlon, Frank Co. ("Ridlon," U Grooved Copper), Boston, Mass.
Standard Brass Foundry Co. (Copper), Cleveland, O.
Star Brass Works ("Kalamazoo," Pure Copper), Kalamazoo, Mich.
Stuart, Howland Co. ("Amesbury"), Boston, Mass.
United Copper Foundry Co., Boston, Mass.
Vaile & Kimes, Dayton, O.
Wesco Supply Co. ("Wesco," Pure Copper), St. Louis, Mo.
**WESTINGHOUSE ELECTRIC & MFG.** Co., Union Bank Bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Williams, E. A. & Son, Jersey City, N. J.

## 13060—Wheels (Valve)

(See also Wheels, Radiator Valve)

Bogert & Hopper Co. (Wooden), 162 William, New York
Estes, E. B. & Sons (Wooden), 74 Warren, New York
Kelly & Jones Co. (Iron, Brass & Wood), Cleveland, O.
Lord, L. L. Co. ("Lord-Noburn"), Meadville, Pa.
Ohio Brass Co. (Wood Radiator), Mansfield, O.
**STILES, H. A. & CO. (Wood), 161** High, Boston, Mass. (See adv. index, end of book)
Sawyer Tool Mfg. Co. ("Prouty" Wire), Fitchburg, Mass.

## Wheels (Vehicle)

(See Wheels, Metal; also Wheels, Steel Vehicle)

## 13061—Wheels (Well)

American Foundry & Mfg. Co., St. Louis, Mo.
Colebrookdale Iron Co. (Or Gin Wheels), Pottstown, Pa.
Laughlin, Thos., Co. (Anti-Friction), Portland, Me.
New Lonron Vise Works (Roller Bushed), New London, Conn.
**Penn Hardware Co., Reading, Pa.**
**Reading Hardware Co., Reading, Pa.**
**Susquehanna Casting Co., Wrightsville, Pa.**
**Weller Hardware & Foundry Co., Horseheads, N. Y.**
**Wilcox, Crittenden & Co., Middletown, Conn.**
**Wrightsville Hardware Co., Wrightsville, Pa.**

## 13062—Wheels (Wheelbarrow)

(See Wheels, Barrow; also Wheels, Metal)

## 13063—Wheels (Wire)

Jamesville Mfg. Co., Jamesville, N. Y.
Kirk-Laty Mfg. Co., Cleveland, O.
Lee & Porter (With Channel Irons for Cushion Rubber Tires), Buchanan, Mich.
Light Mfg. & Foundry Co., Pottstown, Pa.
Mott Wheel Works, Utica, N. Y.
Rastetter, Louis & Son, Fort Wayne, Ind.
Reed & Curtis Machine Screw Co., Worcester, Mass.
Weston-Mott Co. (Steel Rims), Flint, Mich.

## 13064—Wheels (Wood)

Anchor Bolt & Nut Co. (For Implements), Poughkeepsie, N. Y.
Archibald Wheel Co., Lawrence, Mass.
Avoca Wheel Co., Avoca, N. Y.
Biddle & Smart Co., Amesbury, Mass.
Buffington Wheel Co., Burlington, Ia.
Crane & MacMahon, S Bridge, New York
Dickinson Ball Bearing Wheel & Vehicle Co. (With Ball Bearing Boxes), Little Rock, Ark.
Eames, A. M. & Co., South Framingham, Mass.
Eberly & Orris, Mechanicsburg, Pa.
**ELECTRIC WHEEL CO., Quincy,** Ill. (See adv. index, end of book)
Hayes Wheel Co. (For Automobiles & Motor Trucks), Jackson, Mich.
Hoopes Bro. & Darlington, West Chester, Pa.
**Imperial Wheel Co. ("Imperial," "Whalebone"), Flint, Mich.**

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Jamesville Mfg. Co., Jamesville, N. Y.
Jones, Phineas & Co., Newark, N. J.
Madison Wheel Co., Madison, O.
Meeker Mfg. Co., Dayton, O.
Muncie Wheel Co. ("Bann" Auto), Muncie, Ind.
New Haven Carriage Co., New Haven, Conn.
Prudden, W. K. & Co., Lansing, Mich.
Royer Wheel Co. ("Sarven" "Warner"), Cincinnati, O.
Salisbury Wheel & Mfg. Co., Jamestown, N. Y.
Schwarz Wheel Co., 135 N 12th, Phila, Pa.
Standard Wheel Co., Terre Haute, Ind.
Weston-Mott Co., Flint, Mich.
Wilmington Wheel Mfg. Co., Wilmington, Del.
Zwick & Greenwald Wheel Co., Dayton, O.

## 13065—Wheels (Wood Polishing)

Diamond Machine Co., Providence, R. I.

## Wheels (Worm)

(See Gears, Worm)

## 13066—Wheels & Axles (Ball or Roller Bearing)

Adams, S. Jarvis Co. (Roller Bearing Wheels), Pittsburg, Pa.
American Ball Bearing Co. (Ball & Roller), Cleveland, O.
Archibald Wheel Co., Lawrence, Mass.
**ATLAS CAR & MFG. CO., 1289 Marquette rd, N E, Cleveland, O.** (See adv. index, end of book)
Buda Co., Railway Exch. bldg, Chicago, Ill.
Case Mfg. Co., Columbus, O.
Chase Foundry & Mfg. Co., Columbus, O.
Concord Axle Co. ("Brown's" Roller Bearing), Penacook, N. H.
Consolidated Mfg. Co., Toledo, O.
Evans, Coppins & Stark Co. (Ball), Princeton, Ill.
Hutchison, Jno. Mfg. Co. (Roller Bearings), Jackson, Mich.
Lee & Porter Mfg. Co. ("Porter" Vehicle), Buchanan, Mich.
Meeker Mfg. Co. (Ball Bearing), Dayton, O.
Muncie Wheel Co., Muncie, Ind.
Peteler Car Co. (Brass or Roller Bearing, No Ball Bearing), Minneapolis, Minn.
Pressed Steel Mfg. Co. (Ball), Land Title bldg Phila., Pa.
Sheldon Axle Co. (Ball Bearing Axles), Wilkes-Barre, Pa.
Smith, A. O. Co., Milwaukee, Wis.
Suspension Roller Bearing Co. (For Automobile, etc.), Sandusky, O.
Timken Roller Bearing Co. (Roller Bearing only), Canton, O.
Weston-Mott Co. (Automobile, Carriage, etc.), Flint, Mich.

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## 13067— Whetstones

Deerlick Oil Stone Co., Chagrin Falls, O.. & 7 Warren, New York
Pike Mfg. Co., Pike Station, N. H.
Scranton Whetstone & Abrassive Wheel Co. ("Ideal"), Scranton, Pa.

## 13068— Whims (Horse)

**ALLIS-CHALMERS CO., Milwaukee,** Wis. (See adv. index & branch offices, end of book)

## 13069 Whip Mfrs.

Chicora Whip Co., Chicora, Pa.
U. S. Whip Co., Westfield, Mass.

## 13070— Whip Stocks

Harris Mfg. Co. (Wood), Johnson City, Tenn.

## 13071— Whistles (Air)

Buckeye Iron & Brass Works, Dayton, O.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., General Offices** & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 Sth,** Brooklyn, N. Y. (See adv. index, end of book)
Trimount Rotary Power Co. ("Trimount" Rotary for Motor Boats, etc.), 144 Pearl, New York

## 13072—Whistles (Automobile & Motor Boat)

(See also Horns, Automobile; also Horns, Fog)

Chase Machine Co., Cleveland, O.
City Machine & Mfg. Co., 90 Orchard, Detroit, Mich.
**Durkee, C. D. & Co. (Motor Boat), 2 South, New York**
Edmonds & Jones Mfg. Co. (Motor Boat), 313 Riopelle, Detroit, Mich.
Gray-Hawley Co., Detroit, Mich.
Mossberg Wrench Co., Central Falls, R. I.
Sibbley & Pitman ("Tritone"), 26 Warren, New York
Wilcox, Crittenden & Co. ("Ereful"), Middletown, Conn.

## 13073—Whistles (Chime)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co. ("Eastwood" Single Bell), Belleville, N. J.
Fewlass Leen Brass & Iron Works, Cincinnati, Ohio
Kelly & Jones Co. ("K. & J."), Pittsburg, Pa.
Kinsley Mfg. Co., Bridgeport, Conn.
Lonergan, J. E. Co. (Single & Three Bell, etc.), 211 Race, Phila., Pa.
**LUNKENHEIMER CO. (Single Bell,** Three Whistles, etc.), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
**NATIONAL GAUGE CO., 168 Sth,** Brooklyn, N. Y. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Queen City Brass & Iron Works (Single Bell), Cincinnati, O.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
**STANDARD GAUGE MFG. CO., Foxboro,** Mass. (See adv. index & branch
Star Brass Mfg. Co., Boston, Mass.

## 13074—Whistles (Conductors' & Starters')

Woodman, R. Railway Supply Co., 63 Oliver, Boston, Mass.

Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

## 13075— Whistles (Electrically Operated)

**LUNKENHEIMER CO., General Offices,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 13076—Whistles for Fog, Factory & Fire Signals

(See also Sirens, Steam)

**BROWN, A. & F. CO., 172 Fulton,** New York. Works, Elizabethport, N. J. (See adv. index, end of book)
**LUNKENHEIMER CO., Gen'l Offices** & Works Cincinnati, O. (See adv. index & branch offices, end of book)

## 13077—Whistles (Low Pressure)

**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
**LUNKENHEIMER CO., General Offices,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

## 13078—Whistles (Organ)

Star Brass Mfg. Co., Boston, Mass.

## 13079—Whistles (Speaking Tube)

**BERGER MFG. CO., Canton, O. (See** adv. index & branch offices, end of book)
Everhart Brass Works (Heavy for Miners, etc.), Scranton, Pa.

## 13080—Whistles (Steam)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
**Ashton Valve Co., 271 Franklin, Boston, Mass.**
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Central Brass Works, Cincinnati, O.
Crane Co. (Est. 1855), 1214 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
**CROSBY STEAM GAGE & VALVE CO., 95** Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
Eastwood Wire Mfg. Co. ("Eastwood" Plain & Single Bell), Belleville, N. J.
Edna Brass Mfg. Co., Cincinnati, O.
Farnan Brass Works, Cleveland, O.
Garratt, W. T. & Co., San Francisco, Cal.
Haydenville Co., Haydenville, Mass.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co., Pittsburg, Pa.
Kinsley Mfg. Co., Bridgeport, Conn.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Mockingbird"),** General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co., 56 John, New York
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
**NATIONAL GAUGE CO., 168 Sth,** Brooklyn, N. Y. (See adv. index, end of book)
Nelson, Chas., 439 E 10th, New York
Ohio Brass Co., Mansfield, O.
Pittsburg Brass Mfg. Co., 107 Wood, Pittsburg, Pa.
Powell, Wm. Co., Cincinnati, O.
Queens City Brass & Iron Works, Spring Grove av & Gerard, Cincinnati, O.
**SCHAEFFER & BUDENBERG MFG.** Co., 963 Kent av, Brooklyn, N. Y. (See adv. index & branch offices, end of book)
Sherwood Mfg. Co., Buffalo, N. Y.
**STANDARD GAUGE MFG. CO., Foxboro,** Mass. (See adv. index & branch offices, end of book)
Star Brass Mfg. Co., Boston, Mass.
Swift Lubricator Co., Elmira, N. Y.
U. S. Gauge Co., 67 Wall, New York.
**UNION WATER METER CO., Worcester,** Mass. (See adv. index, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Williams, D. T. Valve Co., Cincinnati, O.

## White Metal

(See Castings, White Metal)

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## 13081—White Metal (Rolled Sheet)

Seymour Mfg. Co. (A Nickel Alloy Similar to German Silver), Seymour, Conn.
Waterbury Brass Co. ("Pope's Island), Waterbury, Conn.

## 13081a—White Print Paper

**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)

## 13081b—White Prints (Direct from Tracing, No Negative)

**PEASE, C. F. CO., 167 Adams, Chi**cago, Ill. (See adv. index, end of book)

## 13082—White & Red Lead Mfrs.

Acme White Lead & Color Works, Detroit, Mich.
Butterworth, C. H. Co. ("American"), Camden, N. J.
Carter White Lead Co., W. 121st c S Peoria, Chicago, Ill.
Chadwick-Boston Lead Co. (Dry & in Oil), Boston, Mass.
Davis, H. B. Co., Keyser bldg, Baltimore, Md.
Detroit White Lead Works, Detroit, Mich.
Eagle White Lead Co., Cincinnati, O.
Enterprise Paint Mfg. Co. ("Iron Clad" White Lead), 848 W Van Buren, Chicago, Ill.
**FRENCH, SAMUEL H. & CO. (Dealers** & Grinders), 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Hammar Bros. White Lead Co. (White Lead Only), St. Louis, Mo.
Harrison Bros. & Co., 35th c Gray's Ferry rd, Phila., Pa.
Hazard Lead Works, Hazardville, Conn.
Inland White Lead Co., 820 S Clinton, Chicago, Ill.
Lawrence, W. W. & Co. ("Lawrence" Strictly Pure "Yellow Seal" Lead & Zinc, Combination Radium & Combination "White Star"), Pittsburg, Pa.
Lead Products Co., St. Louis, Mo.
Matheson Lead Co., 182 Front, New York
National Lead Co. ("Dutch Boy"), 11 B'way, New York
National Lead & Oil Co. (Of Pennsylvania), Pittsburg, Pa.
**NEVIN, T. H. CO., North Side, Pitts**burgh, Pa. (See adv. index, end of book)
Pflugh, A. & Co., Hoboken, N. J.
Picher Lead Co., Joplin, Mo.
Shoemaker, Robert & Co. ("Imperial" White Lead), 4th & Race, Phila., Pa.
Tatham & Bros., 223 S 5th, Phila., Pa., & 82 Beekman, New York.
Wetherill & Bro., 126 S 30th, Phila., Pa.

## 13082a—Whitewash (Anti-Septic)

**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)

## 13083—Whiting (Gilders')

Taintor, H. F. Mfg. Co. ("Taintor's" Air Dry), 2 Rector, New York

## 13084—Whiting & Paris White Mfrs.

Cliffton Whiting Works, Quincy, Ill.
Dunham, Thos. C., 68 Murray, New York.
Excelsior Whiting Works (E. T. Grafly, Prop.), York & Almond, Phila., Pa.
**FOX, M. EWING & CO. (In Bulk or** Package), 240 E 136th, New York. (See adv. index, end of book)
Fuller's, Geo. Sons, Hallowell, Me.
Grote, Geo. W. & Co., 432 E 102d, New York, & East St. Louis, Ill.
Hammill & Gillespie, 240 Front, New York.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Higginson Mfg. Co., Newburgh, N. Y.
Kelley Bros. & Spielman (Inc.), Swanson & Moore, Phila., Pa.
Knappmann, Wm. & Co., 165 B'way, New York
Manufacturers' Whiting Co., Phila. Bourse, Phila., Pa.
National Whiting Co., Barberton, O.
Nevins, Sam'l Co., 109 S. 2nd., Phila., Pa.
Newbold Whiting Co., Wilmington, Del.
Philadelphia Whiting Works, 2609 E. York, Phila., Pa.
Taintor, H. F. Mfg. Co., 2 Rector, New York.
Tremont Paint & Varnish Co., Boston, Mass.
Wetherill, Geo. D. & Co., Phila., Pa.
Whittaker, W. H. (Importer), 245 Front, New York.

## 13085— Wickets

**ARCHITECTURAL IRON & WIRE** Works, Wheeling, W. Va. (See adv. index, end of book)
**BOLLES, J. E. IRON & WIRE** Works, 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
**BROWN BROS. MFG. CO. (Iron &** Bronze), 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of book)
**HANKE IRON & WIRE WORKS,** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
**SCHREIBER, L. & SONS CO., 5th &** Eggleston av., Cincinnati, O. & 1133 B'way, New York. (See adv. index & branch offices, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**STANDARD CO. (Ornamental), Rail**way Exchange Bldg., Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av. & 25th,** Pittsburg, Pa. (See adv. index, end of book)
**TYLER, W. S. CO. (Ornamental),** Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO. (All Metals &** Finishes), Worcester, Mass. (See adv. index & branch offices, end of book)

## 13086—Wicks (Lamp, Etc.)

Ansonia, O. & C. Co. (Lamp), Ansonia, Conn.
Bowden Bros., Cedar Grove, N. J.
Cleveland Mill & Power Co., Lawndale, N. C.
Consolidated Cotton Duck Co. (& Stove, etc.), Baltimore, Md.
Eagle Cotton Mills Co. (Candle Wick), Madison, Ind.
Estes Mills (Inc.), Fall River, Mass.
Fletcher Mfg. Co. (Lamp, Cotton Ball, Miners', Stove, etc.), 72 Leonard, New York. Factory, Providence, R. I.
Hooper, Wm. E. & Sons Co. (Lamp, Cotton Ball, Candle, etc.), Baltimore, Md.
January & Wood Co. (Cotton Wicks, etc.), Maysville, Ky.
Lees Mfg. Co. (Lamp, Candle, Miners', Cotton Ball, etc.), Westport, Conn.
McClintock & Irvine Co. (Torch), Pittsburg, Pa.
Malden Mills, Malden, Mass.
Massasoit Mfg. Co., Fall River, Mass.
New Jersey Wick Co. (Lamp, Stove, etc.), Newark, N. J.
Westport Mfg. Co., Fall River, Mass.

## 13086a—Wilson Office & Loft Directories (Changeable)

**TABLET & TICKET CO., 541-553** Jackson boul, Chicago, Ill., 381 B'way, New York. (See adv. index & branch offices, end of book)

## 13087—Winches (Cable)

**ANDERSON FORGE & MACHINE CO.,** 271 Guoin, Detroit, Mich. (See adv. index, end of book)

## 13088—Winches (Electric)

**LIDGERWOOD MFG. CO. (Steam &** Electric), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Sprague Electric Co. (For Haulage Purposes), 527 W 34th, New York

## 13089—Winches & Windlasses

Acme Road Machinery Co., Frankfort, N. Y.
**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)
**AMERICAN HOIST & DERRICK CO.,** St. Paul, Minn. (See adv. index & branch offices, end of book)
American Ship Windlass Co. (Hand, Steam & Electric Gypsey & Yacht Windlasses), Providence, R. I.
Baltimore Steel Car & Foundry Co. ("Derrick"), Baltimore, Md.
Box, Alfred & Co. (Ship & Yacht Windlasses), 813 N Front, Phila., Pa.
**BROWN HOISTING MACHINERY CO.** (Winches Only), St. Clair, N. E., Cleveland, O., & 50 Church, New York (See adv. index & branch offices, end of book)
Browning, Victor R., & Co. (Winches Only), Cleveland, O.
**CARLIN'S, THOS. SONS CO., Oliver** bldg, Pittsburg, Pa. (See adv. index, end of book)
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Chase Machine Co. (Double Drum Hoisting Winches), Cleveland, O.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Dake Engine Co. (Steam Windlasses), Grand Haven, Mich.
**DOBBIE FOUNDRY & MACHINE CO.,** Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
Harvey, H. H. (For Quarries), 608 Atlantic av, Boston, Mass.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hyde Windlass Co., Bath, Me.
Irving Mfg. & Tool Co. (Cargo Winches), 157 Chambers, New York
Klemm, E. R., 616 W Monroe, Chicago, Ill.
Laughlin, Thos. Co. (Windlasses Only), Portland, Me.
Marine Hardware Co. (Hand), Peabody, Mass.
Marine Mfg. Supply Co., 158 South, New York.
Mine & Smelter Supply Co. (Winches Only), 42 B'way, New York, & Denver, Colo.
**NATIONAL HOISTING ENGINE CO.** (Winches Only), Harrison, N. J. (See adv. index & branch offices, end of book)
Round, D. & Son, 2287 B'way, Cleveland, O.
**SPEIDEL, JOHN G., Reading, Pa.** (See adv. index, end of book)
**TERRY & TENCH CO. (Inc.), (Wood** & Steel Frame Winches), Grand Central Terminal, New York. (See adv. index, end of book)
Textile Finishing Machinery Co. (Steam Steerer, etc.), Providence, R. I.
Vulcan Iron Works, 327 N Irving av, Chicago, Ill.
**WALSH'S SONS & CO., Harrison,** N. J. (See adv. index, end of book)

OLD DUTCH PROCESS WHITE LEAD, DRY OR IN OIL. RED LEAD AND LITHARGE.
INDEPENDENT CORRODERS T. H. Nevin Co. ESTABLISHED 1841 PITTSBURGH, PA.

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Wilcox, Crittenden & Co. (Windlasses), Middletown, Conn.
Yale & Towne Mfg. Co. ("Brown," Safety Winches Only), 9 Murray, New York

## 13090—Wind Shields (Automobile)

Adapt Machinery Co., The, 1620-1630 Wabash av., Chicago, Ill.
Amesbury Brass & Foundry Co., Amesbury, Mass.
Anderson, F. W. & Co. ("Quality"), Brown & Uber, Phila., Pa.
Auto Accessories Mfg. Co., Detroit, Mich.
Auto Blacksmith Co., 1351 Michigan av., Chicago, Ill.
Automobile Equipment Co., Detroit, Mich.
Automobile Specialty Co. ("McGiffin"), E E, Pittsburg, Pa.
B. & B. Mfg. Co. ("Superior"), Cleveland, O.
Ball-Frintze Co. ("Avalon"), Newark, O.
Banker Bros. ("Banker"), Pittsburg, Pa.
Barndt-Johnston Auto Supply Co., Columbus, O.
Baum's Brass & Model Works, S. Minneapolis, Minn.
Bi-Motor Equipment Co. ("Portland" & "Lincoln"), Boston, Mass.
Blasier, M. E. Mfg. Co., Utica, N. Y.
Boesch Lamp Co., San Francisco, Cal.
Bridgeport Vehicle Co. ("Miller"), Bridgeport, Conn.
Broc Carriage & Wagon Co., N. E. Cleveland, O.
Buffalo Auto Body & Trimming Co., Buffalo,
Buob & Scheu, Cincinnati, O. N. Y.
**BURROWES, E. T. CO. ("Burrowes"),** Portland, Me. (See adv. index, end of book)
Capital Auto Company, Indianapolis, Ind.
Cartier-Chapman & Co. ("Breeze"), Ludington, Mich.
Chicago Coach & Carriage Co., 1223-31 Michigan av., Chicago, Ill.
Chicago Wind Shield Co. ("Dixie," "Perretz," "Telescope," "Oriole," & "Zig Zag"), 235 Johnson, Chicago, Ill.
Coleman, J. C., Detroit, Mich.
Collins, G. A. & Son ("Collins"), Akron, O.
Denniston, E. E., Buffalo, N. Y.
Detroit Auto-Shield Co. ("Wheeler"), Detroit, Mich.
Duane, W. J. & Co., 304 W 54th, New York
Edwards, O. M. Co. ("Paownye"), Syracuse, N. Y.
English & Mersick Co. ("E. M. Talor"), New Haven, Conn.
Fellwock Roll & Panel Co. ("Perfect"), Evansville, Ind.
Fickling & Co., 304-306 W 49th, New York
Finseisen & Kropf Mfg. Co., 21st & Rockwell, Chicago, Ill.
Ford Auto Equipment Co. (Inc.), 1426 Michigan av., Chicago, Ill.
Gibson Automobile Co. ("Imperial"), Indianapolis, Ind.
Graves & Congdon Co., Amesbury, Mass.
Guarantee Tire & Bi. Co. ("Long Distance"), Indianapolis, Ind.
Hawthorne Mfg. Co., Bridgeport, Conn.
Hillman Auto Supply Mfg. Co. ("Hillman"), Boston, Mass.
Hill Mfg. Co. ("Hill"), Buffalo, N. Y.
Holcker-Elberg Carriage & Rubber Co. ("Holcker-Elberg"), Kansas City, Mo.
Ideal Wind Shield Co., 1845-7 B'way, New York.
Irvin Manufacturing Co., Indianapolis, Ind.
Jacobson Bros. ("Jacobson"), Newark, N. J.
Jenkins Specialty Mfg. Co., Sumter, S. C.
Jonah & George, Merrimac, Mass.
Kimball, C. P. & Co., 315-317 Michigan av., Chicago, Ill.
King Top Mfg. Co. ("King"), Dayton, O.
Knight, F. H. ("Knight"), 1219-21 Michigan av., Chicago, Ill.
Knight, H. C. & Co., 1725 Michigan av., Chicago, Ill.
Limousine-Carriage Mfg. Co. ("Voltz," "Schildback" & "Beecher"), 3515 Michigan av., Chicago, Ill.
London Auto Supply Co. ("Lasco," "London"), 2540-8 Wabash av., Chicago, Ill.
Longdin-Brugger Co., Fond du Lac, Wis.
Loring, J. W. & Son ("Loring"), Worcester, Mass.
Lyons, Hugh & Co. ("Lyons"), Lansing, Mich.
Manhattan Auto Top & Body Co., 249 W. 64th, New York.
Mayer Bros. Electric Co. ("Simplicity"), Detroit, Mich.
Metal Stamping Co., Hubert, West & Washington, New York.
Meyer, Henry E. 17 Duffield (Auto & Motor Boat), Detroit, Mich.
Meyer, Morris F., Port Huron, Mich.
Mezger, C. A. (Inc.) ("Automatic"), 1627-29 B'way, New York.
Michigan Top Co., Detroit, Mich.
Milbradt Mfg. Co. ("Milbradt"), St. Louis, Mo.
Milwood Mfg. Co. ("Millwood" Auto & Motor Boat), 55th & South Park av, Chicago, Ill.
Motor Specialty Co. ("Bresnahan"), Detroit, Mich.
National Auto Top Co. ("National"), 1904 B'way, New York.
New England Auto Top Co., W 54th st & B'way, New York
Nichols, D. P. & Co., Boston, Mass.
Nonpareil Brass Co., Providence, R. I.
Parsons-Curtis Top Co., 70 W Jackson boul, Chicago, Ill.
Paterson Vehicle Co., Paterson, N. J.
Pence Automobile Co. ("Pence"), Minneapolis,
Polson, W. F., Buffalo, N. Y. Minn.
Quinby, J. M. & Co., Newark, N J.
Racine Buggy Top Co. ("The Racine"), Racine,
Racine Mfg. Company, Racine, Wis. Wis.
Rands Mfg. Company, Detroit, Mich.
Reading Metal Body Co., Fleetwood, Pa.
Riley Bros. ("Riley"), Bridgeton, N. J.
Ross & Browne, 6127 Cottage Grove av., Chicago, Ill.
Russell, H. J. ("Angle"), Worcester, Mass.
Schurmeier Wagon Co., Minneapolis, Minn.
Simplicity Windshield Co., Detroit, Mich.
Skinner & Skinner, Chicago, Ill.
Smith, Jos. N. & Co. ("Ackerman"), Detroit, Mich.
Smith, H. Machine Co., Paterson, N. J.
Sprague Umbrella Co. ("Sprague" & "Common Sense"), Norwalk, O.
Springfield Metal Body Co., Springfield, Mass.
Stewart-Carey Glass Co. ("Gibralter," "Kamah"), Indianapolis, Ind.
Troy Carriage Sunshade Co., Troy, O.
Tube Bending Machine Co., Newark, N. J.
Twentieth Century Motor Car Co. ("Williams"), South Bend, Ind.
Universal Wind Shield Co. ("Universal"), 147 S. Clinton, Chicago, Ill.
Vanguard Mfg. Co. ("Vanguard"), Joliet, Ill.
Wenger Carriage Works, Paradise, Pa.
Westchester Appliance Co. ("Westchester"), 13-15 Canal pl., Bronx, N. Y.
Western Mechanical Works ("Western Universal"), Los Angeles, Cal.
Whiting, Dr. T. Henry, Rockford, Ill.

## 13091—Winders (Magnet)

Anderson, Homer, Peekskill, N. Y.
Appleton Electric Co., 224 Washington, Chicago, Ill.
Belden Mfg. Co., 2300 S Western av, Chicago, Ill.
Harvard Electric Co., 525 W Van Buren, Chicago, Ill.

## 13092—Winders (Oyster Dredge)

Page Engineering Co., Baltimore, Md.

## 13092a—Winders (Spring)

(See also Spring Coiling Machines)

Remington Tool & Machine Co. ("Perfection" for Winding Springs), Boston, Mass.

## Windlasses

(See Winches & Windlasses)

## 13093—Windlasses (Arc Lamp)

Ajax Line Material Co., So. Milwaukee, Wis.
Brady, T. H., New Britain, Conn.
Commercial Electrical Supply Co. ("Eddy"), St. Louis, Mo.
Cutter, Geo. Co., South Bend, Ind.
Fletcher Mfg. Co., Dayton, O.
Morris Iron Co., 90 West, New York
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

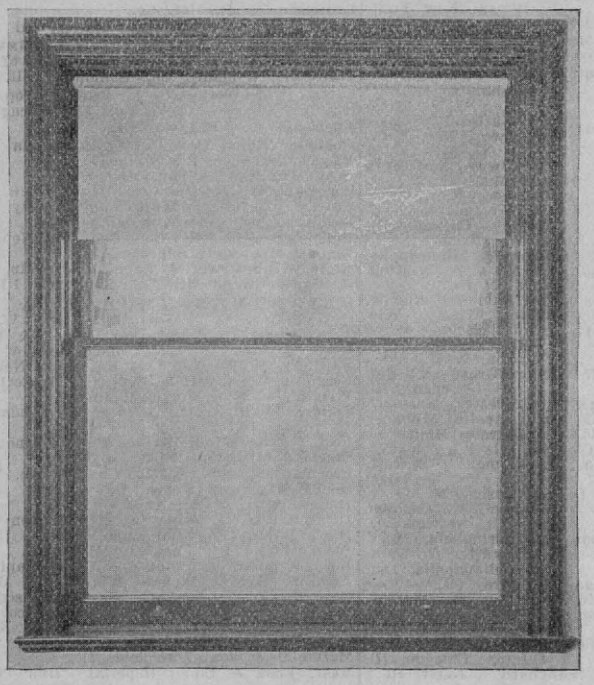
## 13094— Windmills

Aermotor Co. ("Aermotor"), Campbell av, nr 12th, Chicago, Ill.
Althouse, Wheeler & Co. (Wood or Steel Wheel Pumping; also Geared Wood Wheel), Wau-
Appleton Mfg. Co., Batavia, Ill. pun, Wis.
**BALTIMORE COOPERAGE CO.,** The, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Baker Mfg. Co. ("Monitor"), Evansville, Wis.
Banks, T. & Son, Burlington, Wis.
Batavia Wind Mill Co. (Wood), Batavia, Ill.
Beckman Bros. ("B-B"), Des Moines, Ia.
Benjamin, O. P. Mfg. Co., Indianapolis, Ind.
Butler Co. (Steel & Wood), Butler, Ind.
**CALDWELL, W. E. CO., Louisville,** Ky. (See adv. index, end of book)
California Windmill Co., Somonauk, Ill.
Carroll Iron Works (C. L. Bowes, Prop.), 719 Carroll av, Chicago, Ill.
Challenge Co., Batavia, Ill.
Chandler Pump Co., Cedar Rapids, Ia.
Church, Stephen B., Seymour, Conn.
Cook Mfg. Co., Albion, Mich.
Corcoran, A. J. (Inc.), 11 John, New York. Works: Jersey City, N. J.
Dempster Mfg. Co., Des Moines, Ia.
Dempster Mill Mfg. Co., Beatrice, Neb.
Duplex Mfg. Co., Superior, Wis.
Elgin Wind Power & Pump Co., Elgin, Ill.
Enterprise Wind Mill Co., Sandwich, Ill.
**FAIRBANKS, MORSE & CO.** ("Eclipse," "Fairbanks"), 481 Wabash, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairbury Wind Mill Co., Fairbury, Neb.
Ferguson Wind Mill & Pump Co., Waterloo, Ia.
Fleming & Sons, Portland, Ind.
Flint & Walling Mfg. Co. (Star), Kendallville, Ind.
Fort Wayne Windmill Co., Fort Wayne, Ind.
Freeland Mfg. Co., Niles, Mich.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Genoa Mfg. Co., Genoa, O.
Heller, Aller & Co., Napoleon, O.
Horicon Wind Mill Co. (Steel), Horicon, Wis.
Howe Engine Co., Indianapolis, Ind.
Ideal Motor Co., Lansing, Mich.
Iowa Windmill & Pump Co., Cedar Rapids, Ia.
Jackson, Byron Machine Works, 411 Market. San Francisco, Cal.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Kregel Wind Mill Co., Nebraska City, Neb.
Leach, Leander, Joliet, Ill.
McDaniel & Son, Litchfield, Ill.
Mast, Foos & Co. ("Imperial" Iron Turbine, etc.), Springfield, O.
May Bros., Galesburg, Ill.
Medina Mfg. Co., Medina, O.
Mt. Pulaski Windmill Co., Mount Pulaski, Ill.
New Doty Mfg. Co., Janesville, Wis.
Northwestern Wind Engine Co., 119 3d av, Minneapolis, Minn.
Perkins Windmill Co., Mishawaka, Ind.
Peters Pump Co., Kewanee, Ill.
Phelps & Bigelow Windmill Co. ("IXL" Steel), Kalamazoo, Mich.
Red Cross Mfg. Co., Bluffton, Ind.
Rork, J. & Bro., Lansing, Mich.
Ross Supply Co. ("Rex"), Greenville, O.
Schlichter, E. F., 1910 Market, Phila., Pa.
Schmidt, Geo., East Williston, N. Y.
Sharples Co., Chicago, Ill.
Smith & Pomeroy, Wind Mill Co. ("Eureka"), Kalamazoo, Mich.
Southern Rock Island Plow Co., Dallas, Tex.
Stover Mfg. Co. ("Samson" Iron, etc.), Freeport, Ill.
Superior Co., Streator, Ill.
Shurtleff Co., Marengo, Ill.
Stehn Mfg., Sheboygan, Wis.
Sydnor Pump & Well Co., Richmond, Va.
Tanner, D. F., Holland, N. Y.
Temple Pump Co. ("Diamond"), 418 W 15th pl, Chicago, Ill.
United Pump & Power Co. ("J. O. P." Steel), 84 Van Buren, Chicago, Ill.; Works: Clyde, Ill.
U. S. Supply Co., Omaha, Neb.
U. S. Water & Steam Supply Co., Kansas City, Mo.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Vail & Smith Co., Weston, Mich.
Waterloo Pump Co., Waterloo, Ia.
Wells, H. B. & Son, Ithaca, Mich.
Winship Mfg. Co., Racine, Wis.
Winter, F. W. & Co., Faribault, Minn.
Wolcott Windmill Co., Saginaw, Mich.
Woodin & Little, 33 Fremont, San Francisco, Cal.
Woodmanse Mfg. Co. (Steel, Wooden & Power, etc.), Freeport, Ill.
Wright, Charles A., Atchison, Kan.
Ziegler-Schreyer Mfg. Co., Freeport, Ill.
Zimmerman Mfg. Co., Auburn, Ind.

## 13094a—Window Blind Adjusters

Columbian Hardware Co., Cleveland, O.
Boston Pressed Metal Co. ("Osborne"), Worcester, Mass.
Ives, H. B. Co. ("Upson's"), New Haven, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.
Wire Goods Co., Worcester, Mass.

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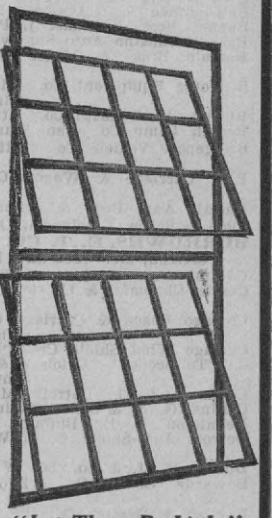
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## 13095—Window Cleaning Appliances & Guards

Orr & Locket Hdw. Co. ("Simpkins" Safety Belt & "Skidmore's" Adustable Balcony), 71 Randolph, Chicago, Ill.
Perfect Safety Window Guard, Flatiron bldg, New York
Smith, F. H. Mfg. Co., 321 St. John's Court, Chicago, Ill.
Whitner Safety Device Co., Chicago, Ill.

## 13096—Window Display Fixtures

American Brass Fixture Works (Brass & Nickel Plated), 66 Greenpoint av, Brooklyn, N. Y.
Barlow Mfg. Co. (Wax Figures, Show Cases, Papier Mache Forms), Holyoke, Mass.
Buckingham Bros. Co. (Skirt Racks, etc.), 177 Adams, Chicago, Ill.
Burgess Machine Co., New Haven, Conn.
Curtis-Leger Fixture Co., 245 Jackson boul, Chicago, Ill.
Faries Mfg. Co. ("Eiffel Tower," Revolving), Decatur, Ill.
Feintuch Display Fixture Co., San Francisco, Cal.
Frankel Display Fixture Co., 177 Hudson, New York
Gas Fixture & Brass Co., Cleveland, O.
Heimann, Morris A. Mfg. Co., St. Louis, Mo.
Jandorf Window Attraction Co. (Mechanical Moving Attractions), 46 Great Jones, New York
Judd, H. L. Co., 87 Chambers, New York
Kehoe Display Fixture Co., San Francisco, Cal.
Lyons, Hugh & Co., Lansing, Mich.
McKenna Bros. Brass Co. (Forms, Wax Figures, Pedestals, Stands, Card Frames, etc.), Pittsburg, Pa.
Multiplex Display Fixture Co., St. Louis, Mo.
Newman Mfg. Co., 717 Sycamore, Cincinnati, O.
Norwich Nickel & Brass Co. (Also Wax Figures), Norwich, Conn.
Onken, Oscar Co. (Wood), Cincinnati, O.
Palmenberg's, J. R. Sons, 710 B'way, New York
Schilling, Chas. E. (Metal Scarf Fixtures), Los Angeles, Cal.
Standard Mfg. Co., Xenia, O.
Superior Brass & Fixture Co., 733 W Jackson boul, Chicago, Ill.
Turner Fixture Co., Oakwood, Mo.
Weston Paper & Mfg. Co. (Also Store), Dayton, O
Woodcraft Co. (Window Shelves, Wood Fixtures, etc.), 840 W 35th, Chicago, Ill.

## 13097—Window Frame & Sash (Metallic)

(See also Windows, Fire-Proof, Wire Glass)

American Sheet Metal Works ("Mudd's"), New Orleans, La.
**BADGER, E. B. & SONS CO. (Fire-proof)**, 75 Pitts, Boston, Mass. (See adv. index, end of book)
Basman, A. M. & Co., Detroit, Mich.
Biersach & Niedermeyer Co., Milwaukee, Wis.
**BROWN BROS. MFG. CO. (Bronze & Iron)**, 22nd & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**BROWN HOISTING MACHINERY CO.** (All Steel), 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
**BURTON, W. J. CO. (Automatic Fire Proof)**, 161 W Congress, Detroit, Mich. (See adv. index, end of book)
Byrd, John, 1433 Catharine, Phila., Pa.
**CANTON MFG. CO., Canton, O.** (See adv. index, end of book)
**CLASON ARCHITECTURAL METAL** Works, 428 Kinsley av, Providence, R. I. (See adv. index, end of book)


# THE W. J. BURTON CO.

MANUFACTURERS OF

**METALLIC WINDOW FRAMES AND SASHES**

Approved by Underwriters.

SKYLIGHTS, CORNICES, METAL CEILINGS

**159, 161 West Congress Street = = = DETROIT, MICH.**

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# METAL WINDOWS
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OF ALL KINDS AND FOR ALL USES

## VOIGTMANN & CO.

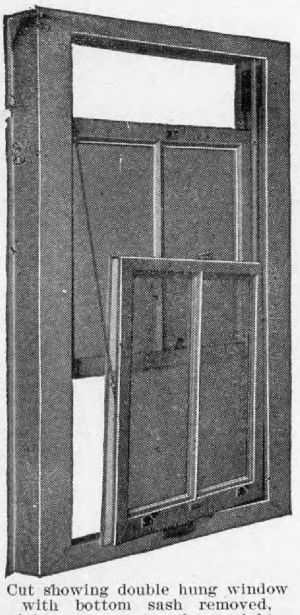
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# BADGER'S Fire Proof Metal Window Frame and Sash



Cut showing double hung window with bottom sash removed, giving access to the weights.

Made under the specifications of the National Board of Fire Underwriters and approved for use.

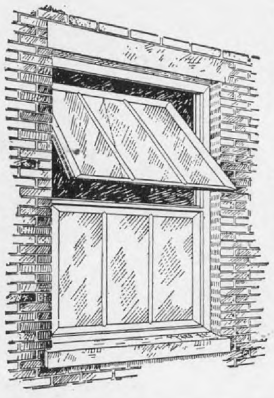
Guaranteed to be the best constructed window on the market.

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# J. C. McFARLAND & CO.

# Metal Windows, Doors, Etc.

Accepted by Underwriter's Laboratories.

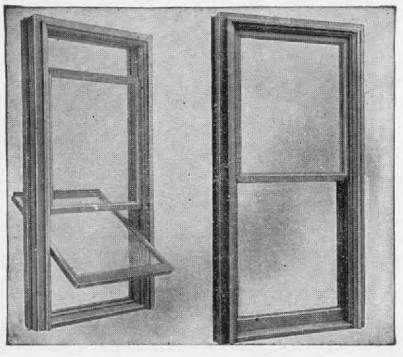
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Are Manufactured Under Supervision of

UNDERWRITERS' LABORATORIES INC.,

according to the latest specifications of the

NATIONAL BOARD OF FIRE UNDERWRITERS

and EVERY WINDOW is INSPECTED, approved and labeled with their OFFICIAL LABEL.

Illustrated Catalogue and Scale Detail Cuts sent on request.

Send us your drawings, showing quantity, sizes, etc. We will make careful estimate, and quote you rock bottom prices.

**THE W. H. MULLINS CO., 341 Franklin St., Salem, Ohio**

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When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible. .. .. .. .. ..

S. E. HENDRICKS CO.,
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NEW YORK, N. Y.


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# VOIGTMANN
# Hollow Metal Fire Proof Windows

Tested and Approved by the National Board of Fire Underwriters' Laboratories.

MANUFACTURED BY

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Successors to VOIGTMANN & CO.

## 427 West Thirteenth Street, NEW YORK.


Consolidated Sheet Metal Works, Milwaukee, Wis.
Cushing, Daniel & Co., Lowell, Mass.
**DAHLSTROM METALLIC DOOR CO.**, Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)
Draper, F. G. (Rolled Steel & Bronze), 105 W 40th, New York
Eagle Metal Works Co., St. Louis, Mo.
**EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O.** (See adv. index & branch offices, end of book)
Filler Mfg. Co., Canton, O.
Farwell Cornice Co., 3935 Southport av, Chicago, Ill.
Foster, Wm. & Son Co. (Inc.), Springfield, Ill.
Freund, Jacob Roofing Co., Cincinnati, O.
Grinden Art Metal Co. (Bronze, Copper or Steel), 43 Walton, Brooklyn, N. Y.
Harris, Clayton, Providence, R. I.
Hayes, Geo. Co., 71 8th av., New York.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Herrmann & Grace, 671 Bergen, Brooklyn, N. Y.
Hicks, S. D. & Sons, 9 Bowker, Boston, Mass.
Howell & Lawrence (Metal Covered), 404 E. 93rd, New York.
Illinois Roofing & Cornice Co., 1144 W Kinzie, Chicago, Ill.
International Sheet & Iron Construction Co., Evansville, Ind.
Irwin, Thos. W. Co., N S, Pittsburg, Pa.
Jamestown Window Screen Co., Jamestown, N. Y.
Keighley, S. Metal Ceiling & Mfg. Co. ("Phoenix"), 824 Locust, Pittsburg, Pa.
Klauer Mfg. Co., Dubuque, Ia.
Kirk, W. P. Co., Bridgeport, Conn.
Knisely Bros., 28th pl & 5th av, Chicago, Ill.
**KNISELY, H. C. CO., 506 S Canal.** Chicago, Ill. (See adv. index, end of book)
Lee, Thos. (Automatic Closing & Sliding Sash), Cincinnati, O.
Leonard Sheet Metal Works (Inc.) ("Leonard" Combined Sliding & Revolving Sashes), 219 Grand, Hoboken, N. J.
Lieberman, M. F. Sheet Metal & Roofing Co. ("Overly" Patent). Economy, Pa.
Lupton's, David Sons Co., Allegheny av & Tulip, Phila., Pa.
Lyster Sheet Metal Co., 1216 Filbert, Phila., Pa.
McFARLAND, J. C. & CO., 27th & 5th av, Chicago, Ill. (See adv. index & branch offices, end of book)
McFARLAND, MEADE ROOFING Co., Woodland av & 46th, Phila., Pa.
Mackwirth Bros. Co., Buffalo, N. Y.
Mesker & Bro., 421 S. 6th, St. Louis, Mo.
Metallic Mfg. Co., 110 Erie, Camden, N. J.
Miller, J. A. & Bro., 114 S Clinton, Chicago, Ill.
Monarch Metal Mfg. Co., Kansas City, Mo.
**MULLINS, W. H. CO., 341 Franklin,** Salem, O. (See adv. index, end of book)
National Metallic Sash Co., 602 Austin av, Chicago, Ill.
National Skylight & Ventilator Co., Rochester, N. Y.
Newark Cornice & Skylight Works (Automatic), Newark, N. J.
New Orleans Roofing & Metal Works, New Orleans, La.
Nichols, Fred., Oakland, Cal.
Northwestern Roofing Cornice & Stamping Works, Minneapolis, Minn.
Ohio Roofing Co., Cleveland, O.
Perkinson & Brown, 412 N Lincoln, Chicago, Ill.
**POMEROY, H. C. CO., 427 W 13th,** New York. (See adv. index, end of book)
Porter Iron Roofing & Corrugating Co., 522 Culvert, Cincinnati, O.
Powers & Boyd Cornize & Roofing Co., St. Louis, Mo.
Pruden Door & Window Co. (Metal), Warner, Bayard & Dock, Baltimore, Md.
Rasner & Dinger Co., Pittsburg, Pa.
Riester & Thesmacher Co., Cleveland, O.
Rudolph & Son Co., Cleveland, O.
Rulofson Metal Window Works, San Francisco, Cal.
Ruth, J. F., Cornice Works, St. Louis, Mo.
Schoedinger, F. O., Columbus, O.
Saginaw Sheet Metal Works, Saginaw, Mich.
**ST. PAUL ROOFING, CORNICE & Ornament Co.** ("Pruden"), St. Paul, Minn. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 408 Culvert, Cincinnati, O.
Sykes Steel Roofing Co., 930 W 19th pl, Chicago, Ill.
Thorn, J. S. Co., 20th & Allegheny av, Phila., Pa.
**UNITED STATES METAL PRODUCTS** Co., 205 W 40th, New York. (See adv. index & branch offices, end of book)
Valley Cornice & Slate Co., Ltd., 300 N Hamilton, Saginaw, W S, Mich.
Van Noorden, E. Co., Boston, Mass.
**VOIGTMANN & CO., 442-459 W Erie,** Chicago, Ill. (See adv. index, end of book)
Von der Au & Cluss Mfg. Co., 2404 S Jefferson av, St. Louis, Mo.
Weis, Henry Cornice Co., Kansas City, Mo.
Weyand, Hy. Co. (Inc.), Waterbury, Conn.
Willis Mfg. Co., Galesburg, Ill.

### 13098—Window Frame & Sash (Wrought Steel)

Detroit Steel Products Co. ((Fenestra"), Detroit, Mich.
Mesker, Geo. L. & Co., Evansville, Ind.
**SCHREIBER, L. & SONS CO., Cincinnati, O.** (See adv. index & branch offices, end of book)
**SNEAD & CO. IRON WORKS, ft. of** Pine, Jersey City, N. J. (See adv. index, end of book)
Streeter, H. C. ("Streeter's"), 416 W Indiana, Chicago, Ill.
**TRUSSED CONCRETE STEEL CO.,** Detroit, Mich. (See adv. index for branch offices, end of book)
Van Dorn Iron Works Co., Cleveland, O.

### 13099—Window Frames (Reversible)

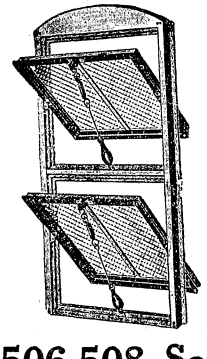
Phenix Mfg. Co., Milwaukee, Wis.

### 13100— Window Guards

(See Wire Fences & Gates; Grilles, Wrought Iron; also Iron, Architectural & Ornamental; also Bank & Office Railings)

### Window Guards (Bronze)

(See Bronze, Architectural, Etc.)

# FIRE-PROOF WINDOWS

*Frames and Sash made of Sheet Metal, Glazed with Wire Glass.*

Accepted and Approved by the National Board of Underwriters.

## SKYLIGHTS, TILE AND SLATE ROOFING.

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## 13101—Window Guards (Pitt-Bostwick Patents)

**PITT, WM. R. COMPOSITE IRON Works** (Folding & Stationary), 136-138 W 24th, New York. (See adv. index, end of book)

## 13102—Window Lock & Adjuster

Fixson, Oscar C. Co. ("Sperry" Casement), 540 W Harrison, Chicago, Ill.

## 13103—Window Lock (Ventilating)

Burdett-Rountree Mfg. Co. (By Compressed Air), 85 W Jackson boul, Chicago, Ill.

Dearborn Hardware Mfg. Co., 2911 Carroll av, Chicago, Ill.

**DROUVE, G. CO. ("Lovell"), 40 Tulip,** Bridgeport, Conn. & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)

Lawson Mfg. Co. ("Matchless" Automatic Burglar Proof), 217 W Huron, Chicago, Ill.

## 13104—Window Opening & Locking Device ("Lovell")

**DROUVE, G. CO., 40 Tulip, Bridgeport,** Conn. & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)

## 13105—Window Sash Holder (Automatic)

Automatic Sash Holder Co., 277 B'way, New York

## 13106—Window Sash Pivots

**RICHARDS - WILCOX MFG. CO.** ("Richards"), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

Steiner & Voegtly ("Giesey's"), Pittsburg, Pa.

Tabor Sash Fixture Co. ("Tabor"), 69 Polk, Newark, N. J.

## 13107—Window Sash (Reversible)

**BADGER, E. B. & SONS CO. (Automatic** Metallic Sash & Frame), 75 Pitts, Boston, Mass. (See adv. index, end of book)

Bolles, Aerial E. ("Bolles" Revolving), 115 Worth, New York

California Mfg. Co., 2243 S Troy, Chicago, Ill.

Deissler, P. & Bro., 249 S 6th, Phila., Pa.

Hipolito Screen & Sash Co. ("Hipolito"), Los Angeles, Cal.

Pacific Sash Co. ("Dean"), San Francisco, Cal.

Pruden Door & Window Co. (Metal), Warner, Bayard & Dock, Baltimore, Md.

Tabor Sash Fixture Co., Main Office & Factory, 69 Polk, Newark, N. J.

## 13108—Window Screen & Awning (Combined)

Phenix Mfg. Co. ("Prenix"), Milwaukee, Wis.

## 13108a—Window Shade Adjusters

Ives, Hobart B. Co., New Haven, Conn.

Johnson, R. R. ("Johnson"), 161 Randolph, Chicago, Ill.

## 13109—Window Shade Fixtures

American Shading Machine Co. (Adjustable), 164 Rano, Buffalo, N. Y.

Stover Mfg. Co., Freeport, Ill.

## 13110—Window Shade Mfrs.

Bosch, Henry Co., 318 Wabash av, Chicago, Ill.

Breneman, Chas. W. &. Co., Cincinnati, O.

Columbia Shade Cloth Co., 27 W 24th, New York

Hees-MacFarlane Co., Detroit, Mich.

Minetto-Meriden Co. (Holland & Felt Shades, Decorations & Fringes, Spring Rollers), Minetto, N. Y.

Pinney, Casse & Lackey Co., Jersey City, N. J.

Talbert-Whitmore Co., Los Angeles, Cal.

Wemple, Jay C. Co., 35 E. 20th, New York

## 13111—Window Springs (Burglar Alarm)

Manhattan Electrical Supply Co. ("Ezytest"), 17 Park pl, New York

## 13111a—Window Stop Adjusters

Grant Pulley & Hardware Co., 3 W 29th, New York

Ives, H. B. Co., New Haven, Conn.

## 13112—Window Stop Screws & Washers

Read, A. P. Co. ("Read's"), 427 W Randolph, Chicago, Ill.

## 13112a—Windows (Air Tight)

**JACKSON, WM. H. CO., 2-4-6 W** 47th, New York. (See adv. index & branch offices, end of book)

## 13113—Windows (Cellar)

Majestic Furnace & Foundry Co. (Cast Iron Frame), Huntington, Ind.


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When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible. .. .. .. .. ..

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# HENDRICKS' COMMERCIAL REGISTER

has been acknowledged as the best of all similar publications. It is commended by the leading Trade Journals and is used by the largest firms and corporations in all lines of business. : : : : : : :


## 13114—Windows (Copper & Bronze Covered)

**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp Co. & J. F. Blanchard Co.), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 13115—Windows (Fire-Proof, Wire Glass)

(See also Window Frame & Sash, Metallic)

**BADGER, E. B. & SONS CO. (Automatic)**, 75 Pitts, Boston Mass. (See adv. index end of book)

**BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)**

**BURTON, W. J. CO., 161 W. Congress, Detroit, Mich. (See adv. index, end of book)**

Byod, John, 1433 Catharine, Phila., Pa.

**CANTON MFG. CO., Canton, O. (See adv. index, end of book)**

**CLASON ARCHITECTURAL METAL Works, 428 Kinsley av, Providence, R. I. (See adv. index, end of book)**

Hayes, Geo. Co., 71 8th av, New York

Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.

Knisely Bros., 28th pl & 5th av, Chicago, Ill.

**KNISELY, H. C. CO. (Revolving),** 506 S Canal), Chicago, Ill. (See adv. index, end of book)

**McFARLAND, J. C. & CO., 27th & 5th** av, Chicago, Ill. (See adv. index & branch offices, end of book)

Mackwirth Bros. Co., 201 Oak, Buffalo, N. Y.

Mesker & Bro., 421 S 6th, St. Louis, Mo.

Miller, J. A. & Bro., 114 S Clinton, Chicago, Ill.

**MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)**

**POMEROY, H. C. CO. ("Voigtmann's"** Automatic Closing Patent), 427 W 13th, New York (See adv. index, end of book)

Pruden Door & Window Co., Warner, Bayard & Dock, Baltimore, Md.

**ST. PAUL ROOFING, CORNICE &** Ornament Co., St. Paul, Minn. (See adv. index, end of book)

Scholes Bros., N S, Pittsburg, Pa.

Sykes Steel Roofing Co., 930 W 19th, pl., Chicago, Ill.

Thorn, J. S. Co., 20th and Allegheny av., Phila., Pa.

**VOIGTMANN & CO., 442-459 W Erie,** Chicago, Ill. (See adv. index, end of book)

Weis, Henry Cornice Co., Kansas City, Mo.

**Weyand, Hy. Co. (Inc.), Waterbury, Conn.**

**Witt & Brown, 215 W 3d, Cincinnati, O.**

## Windows (Kalameined)

(See Doors & Windows, Kalameined)

## 13115a—Windows (Metallic Copper & Bronze Covered)

**CANTON MFG. CO., Canton, O. (See adv. index, end of book)**

## Windows (Reversible)

(See Window Sash, Reversible)

## 13115b—Windows (Rolled Steel)

**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp Co. & J. F. Blanchard Co.) ("Rapp" for Factories & Industrial Buildings), 205 W 40th, New York. (See adv. index & branch offices, end of book)

## 13115c—Windows (Steel Factory)

**UNITED STATES METAL PRODUCTS** Co. (Succs. to John W. Rapp Co. & J. F. Blanchard Co.) ("Rapp" Rolled Steel), 205 W 40th, New York. (See adv. index & branch offices, end of book)

Detroit Steel Products Co. ("Detoit Fesestra"), Detroit, Mich.

Lupton's, David Sons Co., Allegheny av & Tulip, Phila., Pa.

National Steel Products Co. ("Ajax"), Washington, D. C.

Patented Specialties Mfg. Co. ("Daylight Hint"), Cincinnati, O.

**TRUSSED CONCRETE STEEL CO.** ("United"), Detroit, Mich. (See adv. index & branch offices, end of book)

## Windows (Storm)

(See Storm Doors & Windows)

## 13116—Windows (Universal, "Turnbull")

Turnbull & Co. (Opens & Closes Like a Door), 263 La Salle, Chicago, Ill.

## 13117—Windows & Sash (Air-Tight Bronze)

**GORHAM CO. ARCH'L BRONZE,** 5th av. & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)

## 13117a—Windows & Sash (Air-Tight Bronze, Iron, Wood & Kalameined)

**JACKSON, WM. H. COMPANY, 2-4-6 W 47th, New York. (See adv. index & branch offices, end of book)**

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## 13118—Wipers (Machine)

(See also Waste, Cotton & Wool)

American Silk Mfg. Co. (Silk), 4341 Orchard, Phila., Pa.
Hagy, Clinton L. & Son, Inc., 924 S 16th, Phila., Pa.
Hagy, J. Milton Waste Works, 433 Spruce, Phila. Pa.
Houghton, E. F. & Co. ("Houghton's U. S."), 240 W Somerset, Phila., Pa.
Sanitary Rag Co. ("Red Star" Soft Cotton Rags), Kalamazoo, Mich.
Scheinman, I. L. & Co. ("I. L. S. & C."), Detroit, Mich.
**STRONG MACHINERY & SUPPLY CO.** ("Strong's Tisafine"), 48 Franklin, New York. (See adv. index, end of book)

## Wiping Cloths

(See Cloths, Wiping, Plumbers'; also Wipers, Machine)

## 13119—Wire (Aerial & Cable)

Atlantic Insulated Wire & Cable Co., 120 Liberty, New York
Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Collyer Insulted Wire Co., Pawtucket, R. I.
Habirshaw Wire Co., 253 B'way, New York
Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
**OKONITE CO., Ltd. ("Candee"), 253** B'way, New York. (See adv. index, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Simplex Electrical Co., Boston, Mass.
Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.
Trenton Iron Co., Trenton, N. J.

## 13120—Wire (Aluminum)

Aluminum Co. of America (Rare & Insulated Wire & Cables), Pittsburg, Pa.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index, & branch offices, end of book)
**DRIVER-HARRIS WIRE CO., Har**rison, N. J. (See adv. index & branch offices, end of book)
Electric Smelting & Aluminum Co., Lockport, N. Y.
Electrical Alloy Co., Morristown, N. J.
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Scovill Mfg. Co., Waterbury, Conn.

## 13121—Wire (Aluminum Bronze)

Vanadium Metals Co., Frick bldg, Pittsburg, Pa.

## 13122—Wire (Aluminum Coated)

Wilder Metal Coating & Mfg. Co., Connellsville, Pa.

## 13123—Wire (Annealed)

(See Wire, Market)

## 13124—Wire (Annunciator or Office)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg. Chicago, Ill (See adv. index & branch offices, end of book)
Ansonia Electrical Co., Ansonia, Conn.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bishop Gutta Percha Co., 430 E 25th, New York
Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill.
Collyer Insulated Wire Co., Pawtucket, R. I.
Electric Cable Co., Bridgeport, Conn.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Hazard Mfg. Co., Wilkes-Barre, Pa.
Kellogg Switchboard & Supply Co., W Congress & Green, Chicago, Ill.
Lowell Insulated Wire Co., Lowell, Mass.
Monarch Electric & Wire Co., 110 S Clinton, Chicago, Ill.
Moore, Alfred F., 200 N 3d, Phila., Pa.
National Conduit & Cable Co., 41 Park row, New York
Phillips Insulated Wire Co., Pawtucket, R. I.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Rome Wire Co. ("Romeoid"), Rome, N. Y.
Runzel-Lenz Electric Mfg. Co., 1751 N Western av, Chicago, Ill.
Standard Underground Cable Co., Pittsburg, Pa.
Stromberg-Carlson Tel. Mfg. Co., Rochester, N. Y.
Western Electric Co., 500 S Clinton, Chicago, Ill., & 57 Bethune, New York

## 13124a—Wire (Antenna—Aerial & Antenna Cord)

**DRIVER-HARRIS WIRE CO., Harri**son, N. J. (See adv. index & branch offices, end of book)

## 13125—Wire (Armature Banding)

Electrical Alloy Co. (Tinned Steel), Morristown, N. J.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13126—Wire (Asbestos Covered)

Boston Insulated Wire & Cable Co., Boston, Mass.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
**JOHNS, H. W.-MANVILLE CO., 100** William, New York. (See adv. index & branch offices, end of book)


NOTICE.

This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

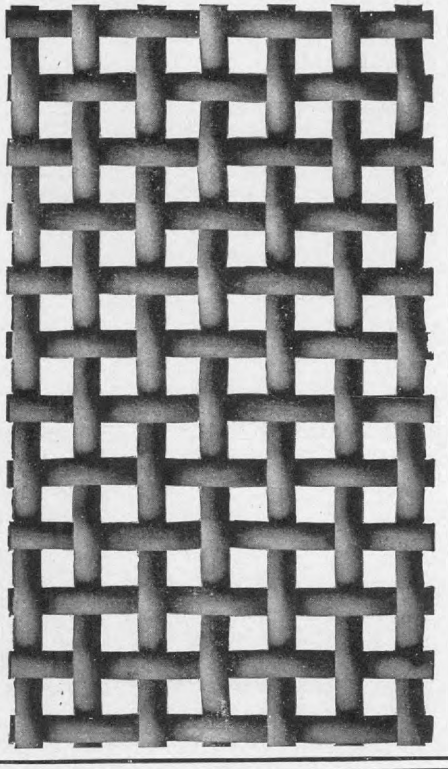
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# HENDRICKS' COMMERCIAL REGISTER

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## Double Crimped Wire Cloth and Screen

MADE IN ALL MESHES AND ALL METALS

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**WIRE OF EVERY DESCRIPTION,** round, flat, square, triangular and odd-shaped. Music wire. Mattress, broom, weaving and market wires in all finishes. Special wires adapted to all purposes.

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Atlanta Steel Co. (Steel), Atlanta, Ga.
Belfont Iron Works Co., Ironton, O.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Colorado Fuel & Iron Co. (Plain & Galvanized), Denver, Col.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Cyclone Woven Wire Fence Co., Cleveland, O.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Griswold Co., Sterling, Ill.
Haish, Jacob Co., DeKalb, Ill.
Hazard Mfg. Co., Wilkes-Barre, Pa.
Indiana Steel & Wire Co., Muncie, Ind.
Janesville Barb Wire Co., Janesville, Wis.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kelly Neil & Iron Co., Ironton, O.
Keystone Steel & Wire Co., Peoria, Ill.
Kokomo Steel & Wire Co., Kokomo, Ind.
Page Woven Wire Fence Co., Adrian, Mich.
Peerless Wire Fence Co., Adrian, Mich.
Northwestern Barb Wire Co., Sterling, Ill.
Norton Iron Works (Inc.), Ashland, Ky.
Pittsburg Steel Co. (Steel Galvanized & Painted), Pittsburg, Pa.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Southern Steel Co., Birmingham, Ala.
Youngstown Sheet & Tube Co., Youngstown, O.

## 13128–Wire (Bookbinders')

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J.

## 13129–Wire (Brass & Bronze Screw)

Waterbury Brass Co., Waterbury, Conn.

## 13130–Wire (Brass & Copper)

American Brass Co., Waterbury, Conn.
American Electrical Works (Copper Wire & Cables for Electrical Use), Phillipsdale, R. I.
Ansonia Brass & Copper Co., Ansonia, Conn.
Babbitt, L. L. Co. (Fire Wires), Clayville, N. Y.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Collyer Insulated Wire Co., Pawtucket, R. I.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**DRIVER-HARRIS WIRE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)
Duplex Metals Co. ("Monnot" Copper), Chester, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Foley, F. W. ("Copper"), Dollar Bay, Mich.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices. end of book)
Hartley, Geo. (Fine Brass), Waterbury, Conn.
Hazard Mfg. Co. (Copper Only), Wilkes-Barre, Pa.
Hendricks Bros. (Copper Only), 49 Cliff, New York
**HUNGERFORD, U. T. BRASS & COPper Co., 497 Pearl, New York**
Manhattan Brass Co., 338 E 28th, New York
**MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)**
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**MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich.** (See adv. index. end of book)
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Phillips Insulated Wire Co., Pawtucket, R. I.
Plume & Atwood Mfg. Co., Waterbury, Conn.
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Rome Brass & Copper Co., Rome, N. Y.
Rome Wire Co. (Copper), Rome, N. Y.
Scovill Mfg. Co. (Brass), Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Spargo, Jas. A. Wire Co. (Copper Only, Fine Sizes a Specialty), Rome, N. Y.
Standard Underground Cable Co. (Copper for Electrical Use), Westinghouse bldg, Pittsburg, Pa.
Waclark Wire Co. (Copper Only), 49 Wall, New York
Washburn Wire Co. (Electric Copper), Phillipsdale, R. I., & 118th & Harlem River, New York
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mills (Inc.), Waterbury, Conn.
**WRIGHT WIRE CO. (Bronze, German Silver), Worcester, Mass.** (See adv. index & branch offices, end of book)

## 13131–Wire (Bright Market)

(See Wire Market)

## 13132– Wire (Bronze)

Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**DRIVER-HARRIS WIRE CO. (Common, Golden & Antique), Harrison, N. J.** (See adv. index & branch offices, end of book)
Michigan Copper & Brass Co., Detroit, Mich.
**MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich.** (See adv. index, end of book)
Vanadium Metals Co., Frick bldg, Pittsburg, Pa.
**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

## 13133–Wire (Broom & Brush)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
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Hartley, Geo. (Brass & Steel Scratch), Waterbury, Conn.
Independent Steel Co. of America, Kenova, W. Va.
Morgan Spring Co., Worcester, Mass.
New Haven Wire Mfg. Co., New Haven, Conn.
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Trenton Iron Co., Trenton, N. J.
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**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

## 13134–Wire (Brush Drawing)

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**WRIGHT WIRE CO., Worcester, Mass.** (See adv. index & branch offices, end of book)

## 13135– Wire (Cable)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
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**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branx offices, end of book)

## 13136–Wire Cables (Copper)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
**BRODERICK & BASCOM ROPE CO.** (Also Steel & Iron), 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
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**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Hazard Mfg. Co., Wilkes-Barre, Pa.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branx offices, end of book)
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Waclark Wire Co., 49 Wall, New York

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**AMERICAN STEEL & WIRE CO.,** Commercial Natl. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, O.

## 13138– Wire (Card)

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Morgan Spring Co., Worcester, Mass.
Prentiss, Geo. W. & Co., Holyoke, Mass.
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Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J.

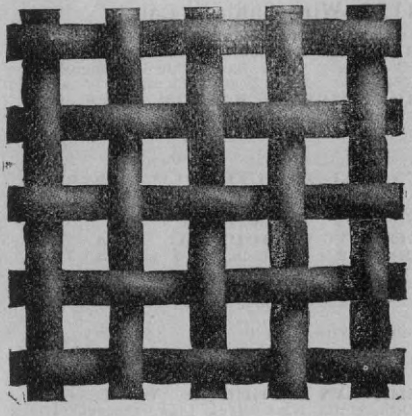
## 13140–Wire (Check Rower)

Chambers, Bering & Quinlan Co., Decatur, Ill.
Faries Mfg. Co., Decatur, Ill.
Youngstown Sheet & Tube Co., Youngstown, O.

## 13141– Wire Cloth

Allen, L. H., Amherst, Mass.
American Wire Fabrics Co., Clinton, Ia.
American Wire Cloth Co., Harrison, N. J.
Andrews Wire & Iron Works (Heavy), Rockford, Ill.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
Barnum, E. T. Wire & Iron Works, 82 Washington av. Detroit, Mich.
Belmor, H. & Co., Cincinnati, O.
Bigelow, Cheney Wire Works (All Kinds), Springfield, Mass.
Buffalo Wire Works Co., Bliffalo, N. Y.
Cabble, Wm. Excelsior Wire Mfg. Co., 43 Fulton, New York.
California Wire Cloth Co., San Francisco, Cal.
Cincinnati Mfg. Co., 1243 W 6th, Cincinnati, O.
City Forge & Iron Works, Dayton, O.
Clinton Wire Cloth Co. (Brass, Bronze & Copper), Clinton, Mass.
**COLUMBUS WIRE & IRON WORKS** Co., Columbus, O. (See adv. index, end of book)
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
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Dow Wire & Iron Works, Louisville, Ky.
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Gilbert & Bennett Mfg. Co., Georgetown, Conn.
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**FOR ALL PURPOSES**

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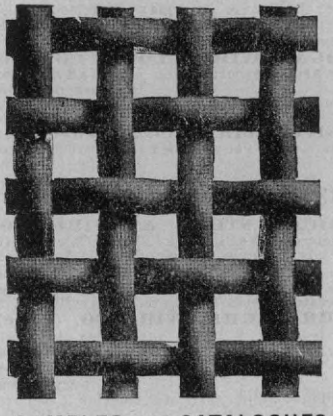
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**MEYERS, FRED. J. MFG. CO., Hamilton,** O. (See adv. index, end of book)
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National Wire Cloth Co., Niles, Mich.
New Freedom Wire Cloth Co. (Screen), New Freedom, Pa.
New Jersey Wire Cloth Co., Trenton, N. Y.
New York Wire Cloth Co., 102 Chambers, New York. Factory: York, Pa.
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Penna. Wire Cloth Co., Mt. Wolf, Pa.
Phoenix Wire Works, Detroit, Mich.
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Reynolds Wire Co., Dixon, Ill.
Rice & Co. ("Lowell," Galvanized), Lowell, Mass.
Sleeth Mfg. Co., Belleville, N. J.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
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Wickwire Bros. (Window Screen), Cortland, N. Y.
Williams, Geo. A. & Sons, 85 Fulton, New York
**WRIGHT WIRE CO. (Brass &** Bronze), Worcester, Mass. (See adv. index & branch offices, end of book)

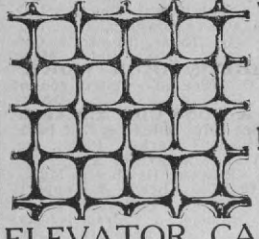
### 13142—Wire Cloth (Brass & Bronze)

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**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
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**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)

### 13143—Wire Cloth (Brass, Bronze & Copper)

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Atlanta Wire & Iron Works Co., Atlanta, Ga.
Bigelow, Cheney Wire Works, Springfield, Mass.
Clinton Wire Cloth Co., Clinton, Mass.
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
Eastwood Wire Mfg. Co., Belleville, N. J.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
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Plain, Galvanized — Copper, Bronze, Brass, etc.

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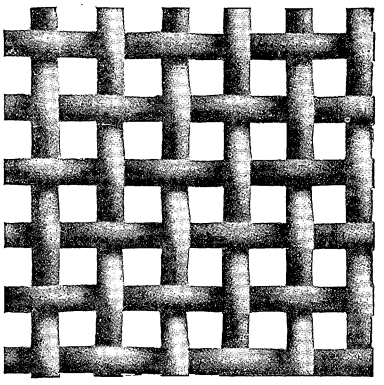
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In any Mesh and Gauge of Wire in Steel, Iron, Tinned, Galvanized, Bronze, Copper, Brass, Etc.

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**MEYERS, FRED. J. MFG. CO., Ham**ilton, O. (See adv. index, end of book)
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Sleeth Mfg. Co., Belleville, N. J.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Spargo Wire Cloth Co., Rome, N. Y.
**TYLER, W. S. CO., Cleveland, O., &** 11 B'way, New York. (See adv. index & branch offices, end of book)
Wickwire Bros., Cortland, N. Y.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13144—Wire Cloth (Window Screen)

Clinton Wire Cloth Co., Clinton, Mass.
**DARBY EDW. & SONS CO., 239** Arch, Phila., Pa. (See adv. index, end of book)
De Witt Wire Cloth Co., 299 B'way, New York
**ESTEY WIRE WORKS CO., 59 Ful**ton, New York. (See adv. index, end of book)
Hanover Wire Cloth Co., Hanover, Pa.
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
**HUNGERFORD, U. T. BRASS & COP**per Co. (Bronze, etc.), 497 Pearl, New York.
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
New Jersey Wire Cloth Co., Trenton, N. J.
New York Wire Cloth Co., 102 Chambers, New York. Factory: York, Pa.
Spargo Wire Cloth Co., Rome, N. Y.
Standard Wire Cloth Co., York, Pa.
Wickwire Bros. (Painted, Bronze, Galvanized, Galvo Black), Cortland, N. Y.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13145—Wire (Coiled Spring)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Carpenter Steel Co., Reading, Pa.
Eastwood Wire Mfg. Co. (Brass), Belleville, N. J.
Frost Wire Fence Co., Cleveland, O.
Kidd Bros. & Burgher Steel Wire Co. (Crucible, Needle, Awl, Spring, etc.), Aliquippa, Pa.
Kokomo Steel & Wire Co., Kokomo, Ind.
Morgan Spring Co., Worcester, Mass.
Newman, C. Wire Co., 143 Liberty, New York
Pittsburg Steel Co., Pittsburg, Pa.
Spencer Wire Co., Worcester, Mass.
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York
Youngstown Sheet & Tube Co., Youngstown, O.

## 13146—Wire (Cold Drawn Steel)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Igoe Bros., Newark, N. J.
Kidd Bros. & Burgher Steel Wire Co., Aliquippa, Pa.
Page Woven Wire Fence Co., Adrian, Mich.
Trenton Iron Co., Trenton, N. J.
Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York
Youngstown Sheet & Tube Co., Youngstown, O.

## 13147—Wire (Cold Rolled)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices. end of book)

## 13148—Wire (Connecting & Leading)

**du PONT, E. I., de NEMOURS POW**der Co., Wilmington, Del. (See adv. index & branch offices, end of book)

## Wire (Copper)

(See Wire, Brass & Copper)

## 13149—Wire (Copper Clad)

Duplex Metals Co., Chester, Pa.
Standard Underground Cable Co., Pittsburg, Pa.

## 13150—Wire (Copper Telephone)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Collyer Insulated Wire Co., Pawtucket, R. I.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Dielectric Co. of America, Belleville, N. J.
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
Michigan Copper & Brass Co., Detroit, Mich.
Phillips Insulated Wire Co., Pawtucket, R. I.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Rome Wire Co. ("Romeoid"), Rome, N. Y.
Standard Underground Cable Co., Pittsburg, Pa.
Waclark Wire Co., 49 Wall, New York

## 13151—Wire (Coppered)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Dewitt Wire Cloth Co., Phila., Pa.
Independent Steel Co. of America, Kenova, W. Va.
Morgan Spring Co., Worcester, Mass.
Prentiss, G. W. & Co., Holyoke, Mass.
Reading Screw Co., Norristown, Pa.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Spencer Wire Co., Worcester, Mass.
Standard Underground Cable Co., Pittsburg, Pa.
Washburn Wire Co., Phillipsdale, R. I.
Wickwire Bros., Cortland, N. Y.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, O.

## 13152— Wire Cord

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO. (Picture), Wor**cester, Mass. (See adv. index & branch offices, end of book)

## 13152a—Wire (Crucible Cast Steel Spring)

**DRIVER-HARRIS WIRE CO., Har**rison, N. J. (See adv. index & branch offices, end of book)

## 13153—Wire Fabric Reinforcement

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**GENERAL FIREPROOFING CO.,** Youngstown, O. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13154— Wire (Feeder)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Natl Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Electrical Co. (Electric Railway Wires & Cables), Ansonia, Conn.
Collyer Insulated Wire Co., Pawtucket, R. I.
Dielectric Co. of America, Belleville, N. J.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Hazard Mfg. Co., Wilkes-Barre, Pa.
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
National Conduit & Cable Co. (Weatherproof Wire & Cable), 41 Park row, New York
**OKONITE CO. (Ltd.) (Railway Feed,** etc.), 253 B'way, New York. (See adv. index, end of book)
Phillips Insulated Wire Co., Pawtucket, R. I.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Safety Insulated & Cable Wire Co., 114 Liberty, New York
Standard Underground Cable Co., Pittsburg, Pa.

DO YOU KNOW that **Hendricks' Commercial Register** is consulted by thousands of Buyers annually, who request us to "put them in touch" with the manufacturers of the best products in all lines of trade and that we are frequently asked to recommend the ONE which we consider to be the best in a particular line? : : :

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## 13155–Wire Fences & Gates

(See also Fences, Railroad & Farm; also Fences, Woven Wire)

Acme Wire Fence Co., Detroit, Mich.
Adrian Wire Fence Co. (Wholesale Mfrs.), Adrian, Mich.
Adams Steel & Wire Works, Joliet, Ill.
American Fence & Iron Works Co., Cincinnati, O.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg. Chicago, Ill. (See adv. index & branch offices, end of book)
Anchor Fence & Mfg. Co. (Farm & Railroad "Anchor" Spring Wire), Cleveland, O.
**ANCHOR POST IRON WORKS, 19** Cortlandt, New York. (See adv. index, end
B. B. Fence Co., Racine, Wis. of book)
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, Detroit, Mich.
**BOLLES, J. E. IRON & WIRE WKS.,** Detroit, Mich. (See adv. index, end of book)
Bond Steel Post Co. ("Empire") Adrain, Mich.
Brazil Machine & Foundry Co., Brazil, Ind.
Brown, H. L. Fence & Mfg. Co. ("Norwood"), Cincinnati, O.
Cargill Mfg. Co. (Plain Coiled, Barbed & Ornamental for Farm & Railroad), Columbus, O.
**CARPENTER, F. E. CO., 253 B'way,** New York. (See adv. index, end of book)
Cincinnati Mfg. Co., 1243 6th, Cincinnati, O.
City Forge & Iron Works (Gates Only), Dayton, O.
Clinton Wire Cloth Co., Clinton, Mass.
Cyclone Fence Co., Waukegan, Ill.
Cyclone Woven Wire Fence Co. (Cyclone Woven Wire), Cleveland, Ohio
Davis & Siehl, Cincinnati, O.
De Kalb Fence Co. (Wholesale Mfrs.), De Kalb, Ill.
De Witt Wire Cloth Co., 703 Market, Phila., Pa.
Denver Iron & Wire Works, Denver, Colo.
Detroit Arch'l Iron Works Co., Detroit, Mich.
Dow Wire & Iron Works, Louisville, Ky.
Dufur & Co., 311 N Howard, Baltimore, Md.
Dwiggins Wire Fence Co. (Wholesale Mfrs. for Fields, Lawns, Cemeteries & Parks), Anderson, Ind.
Elliott & Ried Co. (Slat Fence, etc.), Richmond, Ind.
Estey Bros. Co., Diamond & Meserole av, Brooklyn, N. Y.
**ESTEY WIRE WORKS CO., 59 Fulton,** New York. (See adv. index, end of book)
Eureka Fence Mfg. Co. (Lawn Fences & Gates, etc.), Richmond, Ind.
Frost Wire Fence Co. (Farm & Railing Fence & Steel Gates), Cleveland, O.
Gem Wire Fence Co., Pontiac, Mich.
Gilbert & Bennett Mfg. Co. (Wholesale Mfrs.), Georgetown, Conn.
Halsh, Jacob Co. (Wholesale Mfrs.), De Kalb, Ill.
**HANKE IRON & WIRE WORKS,** 2550 Fillmore, Chicago, Ill. (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
Indiana Anchor Fence Co., South Bend, Ind.
Indiana Steel & Wire Co. (Wholesale Mfrs.), Munice, Ind.
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
Janesville Barb Wire Co. (Wholesale Mfrs.), Janesville, Wis.
Keystone Steel & Wire Co. (Wholesale Mfrs.), Peoria, Ill.
Kitselman Bros. (Wholesale Mfrs.) (Ornamental), Muncie, Ind.
Kokomo Steel & Wire Co. ("Kokomo Pioneer" Wholesale Mfrs.), Kokomo, Ind.
Lansing Wheelbarrow Co., Lansing, Mich.
Ludlow-Saylor Wire Co., St. Louis, Mo.
Mason Fence Co. (Wholesale Mfrs.), Leesburg, O.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Michigan Wire Fence Co., Adrian, Mich.
Missouri Anchor Fence Co., St. Joseph, Mo.
Monarch Fence Co., Adrian, Mich.
**MUNCIE ORNAMENTAL IRON WKS.,** Muncie, Ind. (See adv. index, end of book)
New Jersey Wire Cloth Co., Trenton, N. J.
Ohio Anchor Fence Co., Cleveland, O.
Peerless Wire Fence Co., Adrian, Mich.
Pittsburg Steel Co. (Wholesale Mfrs.) (Perfect), Pittsburg, Pa.
Prairie States Mfg. Co. ("Prairie" Ornamental), Cedar Rapids, Iowa
Queen City Wire Works, Buffalo, N. Y.
St. Louis Wire & Iron Co., St. Louis, Mo.
**SCHREIBER, L. & SONS CO., 8th & Eggleston av.,** Cincinnati, O. (See. adv. index & branch offices, end of book)
Sleeth Mfg. Co. (Lawn & Stock Fence), Belleville, N. J.
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
Southern Iron & Steel Co. (Field Fencing Only), Birmingham, Ala.
Spring Steel Fence & Wire Co. (Wholesale Mfrs.), Anderson, Ind.
**TAYLOR & DEAN, Penn av & 25th.** Pittsburg, Pa. (See adv. index, end of book)
Texas Anchor Fence Co., Ft. Worth, Tex.
Toensing, G. H., St. Paul, Minn.
Union Fence Co. (Wholesale Mfrs.), De Kalb, Ill.
Van Dorn Iron Works Co. (Steel), Cleveland, O.
Voss, Fred'k, 1852 Austin av, Chicago, Ill.
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
**WRIGHT WIRE CO. (Wholesale** Mfrs. Ornamental, Truss & Cable, Railway & Farm), 125 Summer, Boston, Mass. (See adv index & branch offices, end of book
Youngstown Sheet & Tube Co. (Wholesale Mfrs.), Youngstown, O.


# WHEELOCK "RUST PROOF"

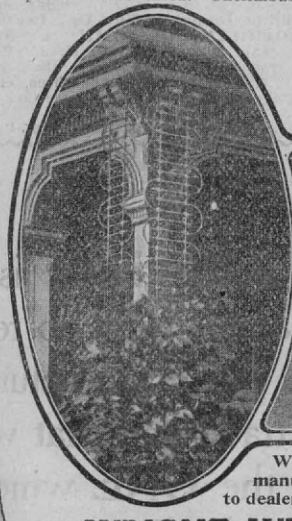
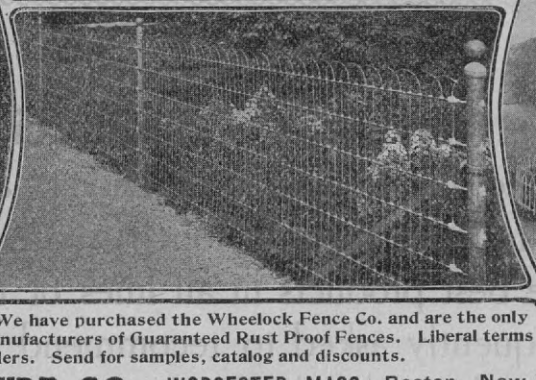
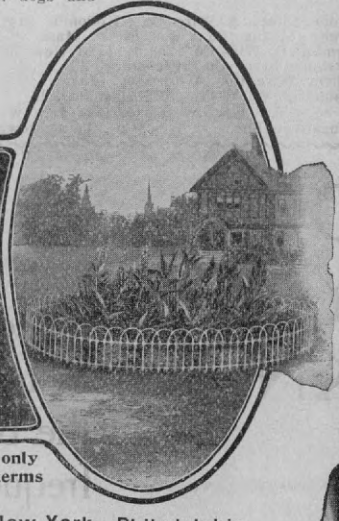
## FENCE, FLOWER BED GUARD, TRELLIS, TREE PROTECTORS Etc.

**FENCE**—Heavy straight wire. Galvanized after weaving. Absolutely rust proof. Close mesh. Unclimbable.

**TRELLIS**—Beautiful and practical. Will not rust. Removable without injury. Artistic.

**TREE PROTECTORS**—Prevent damage by accident or horses. Ornamental. Rust proof. No painting.

**FLOWER BED GUARD**—Protects flower beds against cats, dogs and trespassers.

We have purchased the Wheelock Fence Co. and are the only manufacturers of Guaranteed Rust Proof Fences. Liberal terms to dealers. Send for samples, catalog and discounts.

**WRIGHT WIRE CO., WORCESTER, MASS.** Boston New York Philadelphia Chicago San Francisco


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## 13156—Wire (Fire Detecting)

Montauk Fire Detecting Wire Co., 100 William, New York

## 13157— Wire (Fixture)

Bishop Gutta Percha Co., 422 E 25th, New York
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Moore, Alfred F., 202 N 3d, Phila., Pa.

## 13158—Wire (Flat & Round Tempered)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cary Spring Works, 240 W 29th, New York
Morgan Spring Co., Worcester, Mass.
Crucible Steel Company of America (Crucible Steel Tempered & Untempered), Pittsburg, Pa.
Newman, C. Wire Co., 143 Liberty, New York
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Seneca Wire & Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
Trenton Wire Co., Trenton, N. J.

## 13159—Wire Flooring (Woven)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

## 13160— Wire (Florists')

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J., & 30 Church, New York
Triple Sign Co., Inc. (Wire Floral Supports), Connersville, Ind.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13161—Wire (Fourdrinier)

Appleton Wire Works, Appleton, Wis.
Babbitt, L. L., Clayville, N. Y.
Bigelow, Cheney Wire Works, Springfield, Mass.
Buchanan & Bolt Wire Co., Holyoke, Mass.
Cabble, Wm. Excelsior Wire Mfg. Co., 41 Fulton, New York
De Witt Wire Cloth Co., 299 B'way, New York
**DRIVER-HARRIS WIRE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co., Belleville, N. J.
Federal Wire Cloth Co., Harrison, N. J.
Fox River Wire Cloth Works, Appleton, Wis.
Gleeson, Thos. E., East Newark, N. J.
Globe Wire Co., Harrison, N. J.
Lindsay Wire Weaving Co., Cleveland, O.
McCluskey, H. & T. & Sons, New Haven, Conn.
**TYLER, W. S. CO., Cleveland, O.,** & 11 B'way, New York. (See adv. index & branch offices, end of book)
Wisconsin Wire Works, Appleton, Wis.
Workman, A. H. Sons, Kearney, N. J.

## 13162—Wire (Galvanized)

(See Wire, Market)

## 13163—Wire (German Silver)

Babbitt, L. L., Clayville, N. Y.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass & Clock Co., Bristol, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
**DRIVER-HARRIS WIRE CO. ("Ferro Nickel"),** Harrison, N. J. (See adv. index & branch offices, end of book)
Electrical Alloy Co., Morristown, N. J.
**HUNGERFORD, U. T. BRASS & COPper Co.,** 497 Pearl, New York
McCluskey, H. & T. & Sons, New Haven, Conn.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Michigan Copper & Brass Co., Detroit, Mich.
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Plume & Atwood Mfg. Co., Waterbury, Conn.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Riverside Metal Co., Riverside, N. J. Pa.
Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Waterbury Brass Co., Waterbury, Conn.

### Wire Glass for All Purposes

(See Glass, Wire, Manufacturers)

## 13164—Wire (Gold & Silver)

**AMERICAN PLATINUM WORKS,** Chestnut st. & N. J. R. R. av, Newark, N. J. (See adv. index, end of book)
**UNITED WIRE & SUPPLY CO.** (Solid), 109 Summer, Providence, R. I. (See adv. index, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

## 13164a—Wire (Gold & Silver Plated)

**UNITED WIRE & SUPPLY CO.** (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

## 13165—Wire Goods (Bright)

(See also the Specific Article Required)

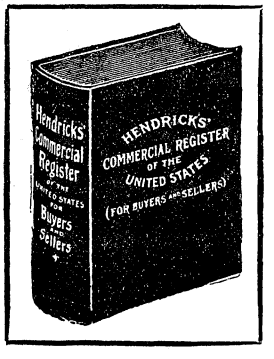
Baird Machine Co. (Bright, to Order), Oakville, Conn.
Belmer, H. & Co., Cincinnati, O.
Bromwell Co., Cincinnati, O.
Brooks, M. S. & Sons (All Kinds of Screw Specialties, etc.), Chester, Conn.
Dean, Hy. E. & Co. (Kitchen), Worcester, Mass.
Jenckes, E. Mfg. Co. (Special, Bright Iron & Brass, etc.), Worcester, Mass.
Hamblin & Russell Mfg. Co., Worcester, Mass.
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
Jenkinson, R. S. &Co., (By Automatic Machines), Newark, N. J.
Kilbourne Mfg. Co., Troy, N. Y.
Lydall & Foulds Paper Co., Manchester, Conn.
**MICHIGAN WIRE CLOTH CO., Detroit, Mich.** (See adv. index, end of book)
Morgan Spring Co., Worcester, Mass.
National Mfg. Co., Worcester, Mass.
Ossawan Mills Co. (Bright), Norwich, Conn.
Parker Wire Goods Co. (Bright & Mill Wire), Worcester, Mass.
Phila. Steel & Wire Co., 525 Commerce, Phila., Pa.
Smith, F. P. & Co. (Specials), Sharon Hill, Pa.
Special Machinery Co., Bridgeport, Conn.
Traut & Hine Mfg. Co., New Britain, Conn.
Wire Goods Co. (Everything in Wire), Worcester, Mass.
Wire Hardware Co., 1824 Besly Court, Chicago, Ill.
Wire Specialty Works, 551 Fulton, Chicago, Ill.

## 13166—Wire (Gun Wrapping)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Independent Steel Co. of America, Kenova, W. Va.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Trenton Iron Co., Trenton, N. J.

## 13167— Wire (Hairpin)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Jackson Wire Mfg. Co., Worcester, Mass.
Morgan Spring Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J., & 30 Church, New York


It is not a Catalog of Advertisers alone, but a Complete Register of the Manufacturers and Jobbers in every line of trade that comes within the scope of the work. : : : : : : : : :


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## 13168—Wire (Insulated)

**Acme Rubber Mfg. Co. (Rubber Covered), Trenton, N. J.**
**Acme** Wire Co. (Copper), New Haven, Conn.
American Electric Fuse Co., Muskegon, Mich.
American Electrical Works, Phillipsdale, R. I.
**American Insulated Wire & Cable Co., 946 W 21st, Chicago, Ill.**
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn.
Ansonia Electrical Co., Ansonia, Conn.
**Atlantic** Insulated Wire & Cable Co., 120 Liberty, New York, & Stamford, Conn.
**Bay State Insulated Wire & Cable Co. ("Maconite"), Hyde Park, Mass.**
Belden Mfg. Co., 2316 S Western av, Chicago, Ill.
Benedict & Burnham Mfg. Co. ("K. K."), Waterbury, Conn.
**Bishop Gutta Percha Co. (Rubber & Gutta Percha), 420 E 25th, New York**
Boston Insulated Wire & Cable Co. (Asbestos Covered), Boston, Mass.
Bourne Rubber Co., Providence, R. I.
**Bradford, Kyle & Co., Plymouth, Mass.**
Bridgeport Brass Co., Bridgeport, Conn.
Chicago Insulated Wire Co., 152 Lake, Chicago, Ill.
Collyer Insulated Wire Co., Pawtucket, R. I.
Consumers' Rubber Co., Bristol, R. I.
Crescent Insulated Wire & Cable Co., Trenton, N. J.
Detroit Insulated Wire Co., Detroit, Mich.
Diamond Rubber Co., Akron, O.
Dielectric Co. of America, Belleville, N. J.
**DRIVER-HARRIS WIRE CO., Harrison, N. J.** (See adv. index, end of book)
Electric Cable Co. ("Voltax"), Bridgeport, Conn.
Excelsior Insulated Wire Co., Newark, N. J.
Feval Enamel Insulated Wire Co. ("Feval"), 124 N Curtis, Chicago, Ill.
**GENERAL ELECTRIC CO. (All Kinds),** Schenectady, N. Y. (See adv. index & branch offices, end of book)
Habirshaw Wire Co., 253 B'way, New York
Hazard Mfg. Co. (Rubber), Wilkes-Barre, Pa.
Heany Fire-Proof Wire Co., 1733 B'way, New York
Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.
**KERITE INSULATED WIRE & CAble Co. (Kerite), 30 Church, New York.** (See adv. index, end of book)
Lowell Insulated Wire Co., Lowell, Mass.
Malin & Co. (Spooled), Cleveland, O.
Marion Insulated Wire & Rubber Co., Marion, Ind.
Montauk Fire Detecting Wire Co., 100 William, New York
Moore, Alf. F. (All Kinds), 200 N 3d, Phila., Pa.
National Conduit & Cable Co., 41 Park row, New York
National India Rubber Co., Bristol, R. I.
New England Electrical Works, Lisbon, N. H.
New York Insulated Wire Co., 114 Liberty, New York
**OKONITE CO. (Ltd.), 253 B'way, New York.** (See adv. index, end of book)
Phillips, Insulated Wire Co., Pawtucket, R. I.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Rome Wire Co. ("Romeoid"), Rome, N. Y.
Safety Insulated Wire & Cable Co., 114 Liberty, New York
Simplex Electrical Co., Boston, Mass.
Standard Underground Cable Co., Pittsburg, Pa.
Waclark Wire Co. (Copper), 20 Exchange pl, New York
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York

## 13168— Wire (Kerite)

**KERITE INSULATED WIRE & CA**ble Co., 30 Church, New York. (See adv. index, end of book)

## 13169— Wire (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

## 13170—Wire (Liquor Finish)

Youngstown Sheet & Tube Co., Youngstown, O.

## 13171—Wire (Machinery)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**DRIVER-HARRIS WIRE CO., Harrison, N. J.** (See adv. index, end of book)
Morgan Spring Co., Worcester, Mass.
Prentiss, Geo. W. & Co., Holyoke, Mass.
Trenton Iron Co., Trenton, N. J., & 30 Church, New York
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York

## 13172— Wire (Magnet)

Acme Wire Co., New Haven, Conn.
American Electric Fuse Co. ("American," Enamel Insulated), Muskegon, Mich.
American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York
**AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)**
Ansonia Brass & Copper Co., Ansonia, Conn.
**Ansonia Electrical Co. (Cotton & Silk Covered), Ansonia, Conn.**
Belden Mfg. Co. (Copper), 2316 S Western av, Chicago, Ill.
Benedict & Burnham Mfg. Co. ("K. K."), Waterbury, Conn.
Bradford, Kyle & Co., Plymouth, Mass.
Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill., & Sycamore, Ill.
Crescent Insulated Wire & Cable Co., Trenton, N. J.
D & W Fuse Co. ("Deltabeston"), Providence, R. I.
**DRIVER-HARRIS WIRE CO., Harrison, N. J.** (See adv. index & branch offices, end of book)
**Electric Cable Co. ("Voltax"). Bridgeport, Conn.**
Electrical Alloy Co. (Copper), Morristown, N. J.
Feval Enamel Insulated Wire Co. ("Feval," Enameled Process), 124 N Curtis, Chicago, Ill.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Hazard Mfg. Co., Wilkes-Barre, Pa.
Heany Fire-Proof Wire Co. ("Heany," Asbestos Insulated), 1733 B'way, New York
**Kellogg Switchboard & Supply Co. (Fine), Green & Congress, Chicago, Ill.**
Lowell Insulated Wire Co., Lowell, Mass.
Massachusetts Electric Mfg. Co., West Lynn, Mass.
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
Moore, Alfred F., 200 N 3d, Phila., Pa.
New England Electric Works. Lisbon, N. H.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Rome Wire Co. ("Romeoid" Silk & Cotton Covered), Rome, N. Y.
Standard Underground Cable Co., Pittsburg, Pa.
Stromberg Carlson Telephone Mfg. Co. ("S-C"), Rochester, N. Y.
Trenton Iron Co., Trenton, N. J., & 30 Church, New York

## 13173—Wire (Manganoid)

Electrical Alloy Co., Morristown, N. J.

## 13174— Wire (Market)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Griswold Co. (Annealed, Bright & Galvanized), Sterling, Ill.
Hazard Mfg. Co., Wilkes-Barre, Pa.
Igoe Bros., Newark, N. J.
Independent Steel Co. of America, Kenova, W. Va.
Indiana Steel & Wire Co., Muncie, Ind.
Jones & Laughlin Steel Co. (Annealed & Galvanized), Pittsburg, Pa.
Kokomo Steel & Wire Co., Kokomo, Ind.
Morgan Spring Co. (Finished, Bright, Annealed, Galvanized, etc.), Worcester, Mass.
Norton Iron Works (Inc.) (Annealed, Galvanized, etc.), Ashland, Ky.
Page Woven Wire Fence Co., Adrian, Mich.
Pittsburg Steel Co. (Annealed, Bright & Galvanized), Pittsburg, Pa.
Prentiss, G. W. & Co. (Annealed), Holyoke, Mass.
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**Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.**
Wickwire Bros. (Annealed, Bright & Galvanized), Cortland, N. Y.
**WRIGHT WIRE CO. (Annealed.** Bright & Galvanized), Worcester, Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co. (Annealed & Bright Smooth Wire), Youngstown, O.

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**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Jackson Wire Mfg. Co., Worcester, Mass.
Morgan Spring Co. (Tinned), Worcester, Mass.
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York

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Jones & Laughlin Steel Co., Pittsburg, Pa.
Youngstown Sheet & Tube Co., Youngstown, O.

## Wire (Needle)

(See Wire, Steel Needle)

## 13178— Wire (Nickle)

Boker, Hermann & Co. (Imported), 101 Duane, New York
**DRIVER-HARRIS WIRE CO. (Pure),** Harrison, N. J. (See adv. index & branch offices, end of book)
Electrical Alloy Co. (Pure Nickel), Morristown, N. J.

## 13179— Wire (Nut)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

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Babbitt, L. L. (Fine Wires), Clayville, N. Y.
**DRIVER-HARRIS WIRE CO.** (Round & Flat), Harrison, N. J. (See adv. index & branch offices, end of book)
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Reeves, Paul S. & Son, 1415 Catharine, Phila., Riverside Metal Co., Riverside, N. J. Pa.
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Morgan Spring Co., Worcester, Mass.
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Waterbury Company (Inc.), 80 South, New York
Webb Wire Works ("Blue Label"), New Brunswick, N. J.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13182— Wire (Picture)

Ossawan Mills Co., Norwich, Conn.
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
**TURNER & SEYMOUR MFG. CO.,** Torrington, Conn. (See adv. index, end of book)
Turner & Stanton Co., Norwich, Conn.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

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**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Belfont Iron Works Co., Ironton, O.
Colorado Fuel & Iron Co., Denver, Col.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
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Jones & Laughlin Steel Co., Pittsburg, Pa.
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Gilbert & Bennett Mfg. Co., Georgetown, Conn.
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Keystone Steel & Wire Co., Peoria, Ill.
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**New Jersey Wire Cloth Co., Trenton, N. J.**
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Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.
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## 13186—Wire (Resistance)

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**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Crescent Iusulated Wire & Cable Co., Trenton, N. J.
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Prentiss, Geo. W. & Co. (Staple & Screw), Holyoke, Mass.
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American Supply Co., Providence, R. I.
**BRODERICK & BASCOM ROPE CO.,** 809 N Main, St. Louis, Mo. (See adv. index & branch offices, end of book)
**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
**DIXON, JOS. CRUCIBLE CO. (Graphite),** Jersey City, N. J. (See adv. index & branch offices, end of book)
Ironsides Co. ("Ironside" Wire & Fibre Rope Shield), Columbus, O.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
**MACOMBER & WHYTE ROPE CO.,** 507 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)
Nason, R. N. & Co., San Francisco, Cal.
National Refining Co., Cleveland, O.
Ohio Filler & Shield Co. (Filler & Shield), Columbus, O.
Plomo Specialty Mfg. Co. ("Plomo"), Cleveland, O.
Reliance Oil & Grease Co. (Grease), Cleveland, Ohio
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Standard Oil Co. ("Standard"), 555 W 25th, New York
**STRONG MACHINERY & SUPPLY CO.** ("Cableine"), 48 Franklin, New York. (See adv. index, end of book)
Suydam, M. B. Co., Pittsburg, Pa.
Trenton Iron Co., Trenton, N. J.
United States Graphite Co., Saginaw, Mich.
Wire Rope Lubricating Co., Scheuer bldg, Newark, N. J.
Zibell Process Compounds Co. ("Zibell"), 273 Water, New York

## 13190—Wire Rope (Derrick & Dredging)

(See Wire Rope & Cables)

## 13191—Wire Rope (Galvanized)

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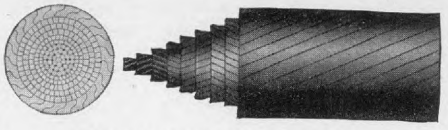
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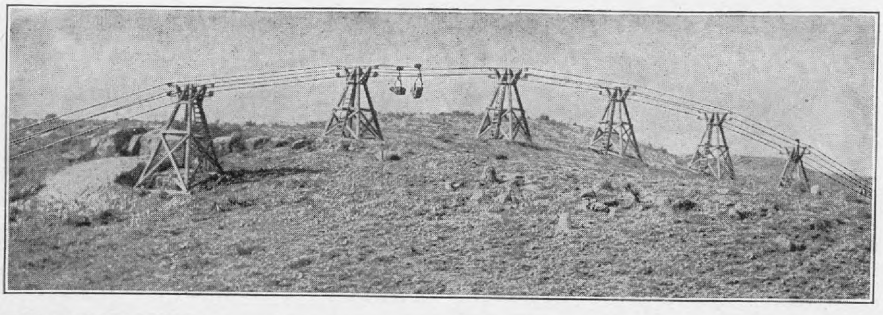



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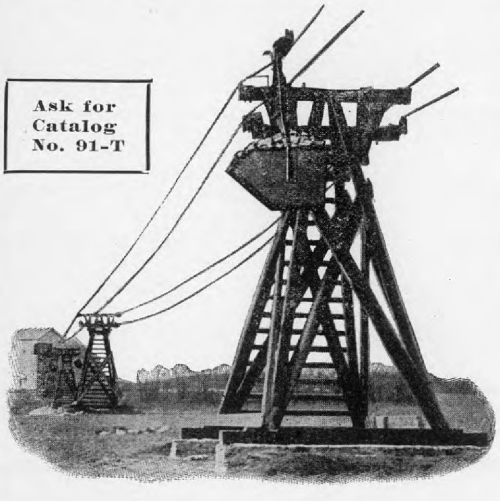
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**CARPENTER, GEO. B. & CO., 202 S** Water, Chicago, Ill. (See adv. index, end of book)
Durable Wire Rope Co. (Durable), 28 Atlantic av. Boston, Mass.
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Hallidie-Painter Tramway Co. (Mfrs'. Agents), 320 Market, San Francisco, Cal.
Hazard Mfg. Co., Wilkes-Barre, Pa.
**LESCHEN, A. & SONS ROPE CO., 920** N 1st, St. Louis, Mo. (See adv. index & branch offices, end of book)
Macomber-Whyte-Moon Co., 122 Centre, New York
**MACOMBER & WHYTE ROPE CO.,** 507 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Trenton Iron Co. (Iron & Steel), Trenton, N. J.
Washburn Wire Co., Philadelphia, R. I., & 118th & E. R., New York
Waterbury Co. (Inc.), ("Giant"), 80 South, New York
Williamsport Wire Rope Co., Williamsport, Pa.
**WRIGHT WIRE CO., 32 Oliver, Boston,** Mass. (See adv. index & branch offices, end of book)

## 13196—Wire (Rubber Covered)

American Electrical Works, Phillipsdale, R. I.
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Bishop Gutta Percha Co. (Solid & Flexible), 422 E 25th, New York
Collyer Insulated Wire Co., Pawtucket, R. I.
Detroit Insulated Wire Co., Detroit, Mich.
Electric Cable Co., Bridgeport, N. J.
**GENERAL ELECTRIC CO., Schenectady,** N. Y. (See adv. index & branch offices, end of book)
Habirshaw Wire Co., 253 Broadway, New York
Indiana Rubber & Insulated Wire Co. ("Paranite" & "Peerless" Wires & Cables), Jonesboro, Ind.
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
Lowell Insulated Wire Co. (Solid, Stranded, Double Braid & Duplex), Lowell, Mass.
Marion Insulated Wire & Rubber Co. (Cables), Marion, Ind.
Moore, Alfred F. (Solid & Flexible), 202 N 3d, Philadelphia, Pa.
National India Rubber Co., Bristol, R. I.
New York Insulated Wire Co. ("Grimshaw" & "Raven" White Core), 114 Liberty, New York
Phillips Insulated Wire Co., Pawtucket, R. I.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works: Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Rome Wire Co. ("Romeoid"), Rome, N. Y.
Simplex Electrical Co., Boston, Mass.
Standard Underground Cable Co., Pittsburg, Pa.

## 13197— Wire (Rule)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Newman, C. Wire Co., 143 Liberty, New York
Trenton Iron Co., Trenton, N. J.
Washburn Wire Co., Phillipsdale, R. I.

## 13198—Wire (Scratch Brush)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
**DRIVER-HARRIS WIRE CO. (Brass,** German Silver, Steel), Harrison, N. J. (See adv. index & branch offices, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13199— Wire (Screen)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Detroit Arch'l Iron Works Co., Detroit, Mich.
Dewitt Wire Cloth Co., 299 B'way, New York, & Phila, Pa.
Jackson Wire Mfg. Co., Worcester, Mass.
**MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)
Seneca Wire & Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

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Wire Specialty Works, 551 Fulton, Chicago, Ill.

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## 13202— Wire (Spoke)

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Washburn Wire Co., Phillipsdale, R. I.

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Cleveland Wire Goods Co. (Annealed Steel, Annealed Tin & Soft Brass & Copper), Cleveland, O.
Coe Brass Mfg. Co., Torrington, Conn.
Eastwood Wire Mfg. Co. (Brass & Copper), Belleville, N. J.
**GENERAL ELECTRIC CO., Schenectady, N. Y.** (See adv. index & branch offices, end of book)
Jackson Wire Mfg. Co., Worcester, Mass.
Malin & Co., Cleveland, O.
**MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. ( See adv. index & branch offices, end of book)
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Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
Wire Goods Co., Worcester, Mass.
**WRIGHT WIRE CO. (Steel, Copper,** Brass or German Silver), Worcester, Mass. (See adv. index & branch offices, end of book)

## 13204— Wire (Square)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Independent Steel Co. of America, Kenova, W. Va.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York

## 13205— Wire (Steel)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Athenia Steel & Wire Co., 135 William, New York
Atlanta Steel Co. (Open-Hearth), Atlanta, Ga.
Carpenter Steel Co. (High Grade), Reading, Pa.
Cedarburg Wire & Wire Nail Co., Cedarburg, Wis.
Colorado Fuel & Iron Co., Denver, Colo.
Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
Crucible Steel Co. of America, Pittsburg, Pa.
**DRIVER-HARRIS WIRE CO. ("Hercules" Tinned Armature Binding),** Harrison, N. J. (See adv. index & branch offices, end of book)
Globe Wire Co. (Drawn Steel), Sharpsburg, Pa.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Griswold Co., Sterling, Ill.
Halcomb Steel Co. (Fine Crucible & High Grade). Syracuse, N. Y.
Hamilton's, T. Sons, 1346 E Berks, Phila, Pa.
Hazard Mfg. Co. (Cast Steel), Wilkes-Barre, Pa., & 50 Dey, New York
Igoe Bros. (Also Iron), 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Independent Steel Co. of America (Basic & Bessemer), Kenova, W. Va.
Indiana Steel & Wire Co., Muncie, Ind.
Jackson Wire Mfg. Co. (Small), Worcester, Mass.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keystone Steel & Wire Co., Peoria, Ill.
**Kidd Bros. & Burgher Steel Wire Co. (Coiled** Crucible Polished), Aliquippa, Pa.
Kokomo Steel & Wire Co., Kokomo, Ind.
Morgan Spring Co., St. Louis, Mo.
New Process Mfg. Co., St. Louis, Mo.
**Newman, C. Wire Co., 143 Liberty, New York**
Norton Iron Works, Ashland, N. Y.
Page Woven Wire Fence Co. (Cold Drawn), Adrian, Mich.
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Pittsburg Tool Steel Wire Co., Monaco, Pa.
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Spencer Wire Co., Worcester, Mass.
Townsend, C. C. & E. P. Co., New Brighton, Pa.
Trenton Iron Co. ("Bessemer & Open Hearth; also Iron Wire), Trenton, N. J., & 30 Church, New York
Washburn Wire Co., Phillipsdale, R. I. & 118th & Harlem River, New York
Wickwire Bros., Cortland, N. Y.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co. (Smooth Steel). Youngstown, O.

## 13206—Wire (Steel Ball)

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**Newman, C. Wire Co., 143 Liberty, New York**
Washburn Wire Co., Phillipsdale, R. I.

## 13208—Wire (Steel Brush)

(See Wire, Broom & Brush)

## 13209—Wire (Steel Needle)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Boker, Hermann & Co. (Imported), 101 Duane, New York
Crucible Steel Company of America (Cold Drawn), Pittsburg, Pa.
Halcomb Steel Co., Syracuse, N. Y.
Independent Steel Co. of America, Kenova, W. Va.
Pittsburg Tool Steel Wire Co., Monaca, Pa.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York
Webb Wire Works, New Brunswick, N. J.

## 13210—Wire (Steel Spring)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Athenia Steel & Wire Co., 135 William, New York
**Crawfordsville Wire & Nail Co., Crawfordsville, Ind.**
**Hartley, Geo. (Cast Steel Watch & Clock** Hair Spring Wire), Waterbury, Conn.
Independent Steel Co. of America, Kenova, W. Va.
**Kidd Bros. & Burgher Steel Wire Co. (Crucible Coiled Polished), Aliquippa, Pa.**
Morgan Spring Co., Worcester, Mass.
Newman, C. Wire Co., 143 Liberty, New York
Page Woven Wire Fence Co., Adrian, Mich.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
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Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
Washburn Wire Co. (Clock & Motor etc.), Phillipsdale, R. I., & 118th & Harlem River, New York
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Youngstown Sheet & Tube Co., Youngstown, O.

## 13211—Wire (Steel, Telephone & Telegraph)

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## 13212— Wire (Stone)

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## 13213—Wire (Stove Pipe)

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## 13214— Wire Strand)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
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Hazard Mfg. Co. (Galvanized Steel), Wilkes-Barre, Pa.
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Trenton Iron Co., Trenton, N. J. & 30 Church, New York
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## Wire (Submarine)

(See Cables, Submarine)

## 13215— Wire (Tack)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
Seneca Wire & Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
Washburn Wire Co., Phillipsdale, R. I.
Youngstown Sheet & Tube Co., Youngstown, O.

## 13216— Wire (Tag)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Morgan Spring Co. (Cut or Bunched), Worcester, Mass.
Seneca Wire & Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
**WRIGHT WIRE CO. (Cut or Bunched),** Worcester, Mass. (See adv. index & branch offices, end of book)

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## 13217—Wire (Telephone & Telegraph)

American Electrical Works, Phillipside, R. I.
**AMERICAN STEEL & WIRE CO.,** ("W & M," Steel, Iron or Copper), Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlantic Insulated Wire & Cable Co., 120 Liberty, New York, & Stamford, Conn.
Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Collyer Insulated Wire Co., Pawtucket, R. I.
Crawfordville Wire & Nail Co., Crawfordsville, Ind.
Detroit Copper & Brass Rolling Mills (Copper), Detroit, Mich.
Detroit Insulated Wire Co., Detroit, Mich.
Dielectric Co. of America, Belleville, N. J.
Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.
Indiana Steel & Wire Co., Munice, Ind.
**KERITE INSULATED WIRE & CA**ble Co. (Kerite), 30 Church, New York. (See adv. index, end of book)
Lowell Insulated Wire Co., Lowell, Mass.
Michigan Copper & Brass Co. (Copper), Detroit, Mich.
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New York Insulated Wire Co., 114 Liberty, New York.
Phillips Insulated Wire Co., Pawtucket, R. I.
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Simplex Electrical Co., Boston, Mass.
Standard Underground Code Co., Pittsburg, Pa.
Waclark Wire Co. (Copper Only), 20 Exchange pl, New York
Washburn Wire Co. (Galvanized Iron & Steel), Phillipsdale, R. I.

## 13218— Wire (Tinned)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y., & Newark, N. J.
Independent Steel Co. of America, Kenova, W. Va.
Jackson Wire Mfg. Co., Worcester, Mass.
Morgan Spring Co., Worcester, Mass.
Prentiss, G. W. & Co., Holyoke, Mass.
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. ( See adv. index & branch offices, end of book)
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Spargo, Jas. A. Wire Co. (Tinned Copper), Rome, N. Y.
Spencer Wire Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
Waclark Wire Co. (Copper Wire & Cable), 49 Wall, New York
Washburn Wire Co., Phillipsdale, R. I.
Wickwire Bros., Cortland, N. Y.
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13219— Wire Trellises

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**FOREST CITY STEEL & IRON CO.,** 110th nr Detroit av, Cleveland, O. (See adv. index, end of book)
**HOWARD & MORSE, 46 Fulton,** New York. (See adv. index, end of book)
**INGLIS, WM. WIRE & IRON WKS.,** 59 Woodbridge, Detroit, Mich. (See adv. index, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13220— Wire (Trolley)

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**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co. ("Phono-Electric"), Bridgeport, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Collyer Insulated Wire Co, Pawtucket, R. I.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Duplex Metals Co. (Copper Clad), Chester, Pa.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)
Hendricks Bros., 49 Cliff, New York
Michigan Copper & Brass Co., Detroit, Mich.
National Conduit & Cable Co., 41 Park row, New York
Phillips Insulated Wire Co., Pawtucket, R. I.
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Waclark Wire Co., 49 Wall, New York

## 13221— Wire (Twisted)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Pittsburg Steel Co. (Galvanized Twisted Cable Fence Wire), Pittsburg, Pa.
Spencer Wire Co., Worcester, Mass.

## 13222—Wire (Umbrella)

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
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Morgan Spring Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J. & 30 Church, New York
Washburn Wire Co., Phillipsdale, R. I.
Youngstown Sheet & Tube Co., Youngstown, Ohio

## 13223—Wire (Waterproof)

Collyer Insulated Wire Co., Pawtucket, R. I.
**GENERAL ELECTRIC CO., Schenec**tady, N. Y. (See adv. index & branch offices, end of book)

## 13224—Wire (Weatherproof)

American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York
**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
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Ansonia Electrical Co. (Line Wires & Cables), Ansonia, Conn.
Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Benedict & Burnham Mfg. Co. ("K. K."), Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Collyer Insulated Wire Co. (Also Slow Burning), Pawtucket, R. I.
Dielectric Co. of America, Belleville, N. J.
Electric Cable Co. ("Voltax"), Bridgeport, Conn.
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**KERITE INSULATED WIRE & CA**ble Co. (Kerite Special), 30 Church, New York. (See adv. index, end of book)
Moore, Alfred F. (Also Slow Burning), 200 N 3d, Phila., Pa.
National Conduit & Cable Co. (Wire & Cables), 41 Park row, New York
**OKONITE CO. (Ltd.), 253 B'way, New** York. (See adv. index, end of book)
Phillips Insulated Wire Co. (Slow Burning). Pawtucket, R. I.
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Standard Underground Cable Co., Pittsburg, Pa.
Waclark Wire Co. (Copper Wire & Cables). 49 Wall, New York

## 13225— Wire Weaving

**AMERICAN STEEL & WIRE CO.,** Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
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Morgan Spring Co., Worcester, Mass.
Seneca Wire & Mfg. Co., Fostoria, O.
Youngstown Sheet & Tube Co., Youngstown, Ohio

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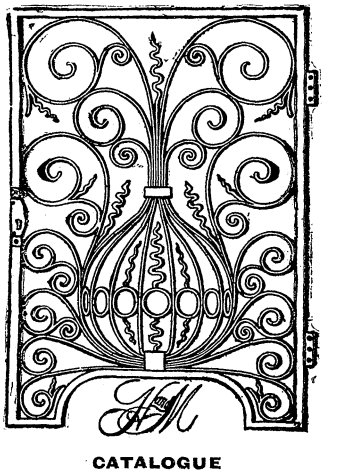
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**BROWN BROS. MFG. CO., 22d &** Campbell av, Chicago, Ill. (See adv. index & branch offices, end of book)
**COLUMBUS WIRE & IRON WORKS** Co., Columbus, O. (See adv. index, end of book)
**DARBY, EDW. & SONS CO., 239 Arch,** Phila., Pa. (See adv. index, end of book)
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**LANDON, E. R. IRON & WIRE** Works, 166 N May, Chicago, Ill. (See adv. index, end of book)
**MICHIGAN WIRE CLOTH CO., 500** Howard, Detroit, Mich. (See adv. index, end of book)
**PITT, WM. R. COMPOSITE IRON** Works, 136-138 W 24th, New York. (See adv. index, end of book)
**SMITH, F. P. WIRE & IRON WORKS,** Lake & Dearborn, Chicago, Ill. (See adv. index, end of book)
**STANDARD CO., Railway Exchange** bldg, Chicago, Ill. (See adv. index, end of book)
**TAYLOR & DEAN, Penn av & 25th,** Pittsburg, Pa. (See adv. index, end of book)
**TYLER, W. S. CO., Cleveland, O.** (See adv. index & branch offices, end of book)
**VULCAN CO., Detroit, Mich. (See** adv. index, end of book)
**WRIGHT WIRE CO., Worcester,** Mass. (See adv. index & branch offices, end of book)

## 13227–Wires (Bonding)

Ristine Co. ("Acme"), Rookery, Chicago, Ill.

## 13227a– Wires (Drop)

Paragon Sellers Co. ("Ironite" Insulated), 58 5th av, Chicago, Ill.

## 13228– Wires (Pointed)

**Reed & Prince Mfg. Co., Worcester, Mass.**

## 13229–Wires (Threaded)

**ATLAS BOLT & SCREW CO., Mar**quette, opp. Hamilton av, N E, Cleveland, Ohio
Blake & Johnson Co., Waterbury, Conn.
Cleveland Wrought Washer Co., Cleveland, O.
Ohio Nut & Bolt Co., Berea, O.
**Progressive Mfg. Co. (To Order Only),** Torrington, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.

## 13230– Withes (Mast)

Wilcox, Crittenden & Co., Middletown, Conn.

## 13230a–Wood Alcohol Plants

**STRUTHERS-WELLS CO. (Stills,** Coolers, Retorts, Charcoal Cars, Steam Pans), Warren, Pa. (See adv. index, end of book)

## 13231– Wood (Bent)

Carrier Lumber & Mfg. Co., Sardis, Miss.
Buckeye Handle, Gear & Bending Co., Alliance, O.
Dann Bros. Co. (To Order), New Haven.
Gillette, C. H., Indianapolis, Ind. Conn.
Gillette, C. H. & Son, Jonesboro, Ark.
Gillette, W. H., Louisville, Ky.
Shepard, H. G. & Sons, New Haven, Conn.

## 13232a– Wood Carpets

(For all other Manufacturers of Wood Carpets see Floors, Parquet)

**THE INTERIOR HARDWOOD CO**
**MANUFACTURERS INDIANAPOLIS, IND.**
(See adv. index, end of book)

**WOOD-MOSAIC CO., Main Office &** Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

## Wood Columns

(See Columns, Porch, Etc., Manufacturers)

## 13233–Wood Distilling Apparatus

**BADGER, E. B. & SONS CO., 75 Pitts,** Boston, Mass. (See adv. index, end of book)

## Wood Dye

(See Wood Stains)

## Wood Finishes

(See Hard Oil Finish)

## Wood Flooring-Interlocking

(See Flooring, Wood Block)

## 13235–Wood Floors (Mosaic)

(See also Floors, Parquet)

**THE INTERIOR HARDWOOD CO**
**MANUFACTURERS INDIANAPOLIS, IND.**
(See adv. index, end of book)

**WOOD-MOSAIC CO., Main Office &** Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

## 13236– Wood Flour

**du PONT, E. I., de NEMOURS POW**der Co., Wilmington, Del. (See adv. index & branch offices, end of book)
Napanoch Mfg. Co., Napanoch, N. Y.
Pioneer Pulp Co., Towle, Cal.

## 13236a–Wood Impregnating Plants

**POWER & MINING MACHINERY** Co., B'way & Cedar, New York. (See adv. index & branch offices, end of book)

## 13237–Wood (Lignumvitae)

Boston & Lockport Block Co., Boston, Mass.
McMillan's, W. H. Sons (Rough, Turned & Sawed), 153 South, New York

## 13238–Wood Modelers (Architectural)

(See Carvers, Wood, Classic; also Modelers & Sculptors, Architectural)

## 13239–Wood Novelties (Turned, Etc.)

(See also Woodenware & Novelties)

American Enamel Co., Providence, R. I.
American Wood Working Co., 9 Warren, New York. Factory: Weld, Me.
Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Hartwell, C. L. & Co. (Hickory & Other Hardwoods), Chicago Heights, Ill.
**Hellenberg & Son (Ten Pins, Mauls & Mallets** Indian Clubs, Dumb Bells, Exercising Horizontal Bars & Trapeze Bars, etc.), Cold water, Mich
Lewis, W. E. Mfg. Co. (Wooden Novelties) West Springfield, Pa
Markham Mfg. Co., Plymouth, Mich.
Martin, L., Richmond, N. H.
Mossman, Jerome, Fitchburg, Mass.
Novelty Turning Co. (& Enamels, Potato Mashers. Rolling Pins, Chopping Bowls, Toys Furniture, Druggists' Boxes, etc.), Norway Me
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H
Peters', Jno. M. Sons (Handles, Towel Racks. Rings, Curtain Fixtures, etc.), Bleecker, N. Y.
Phillips, A. J. Co. (Door Holders, Towel Racks, Mops, Stable Scrapers, etc.), Fenton, Mich.
Peirce, W. E. & Co., Milford, N. H.
Piqua Handle & Mfg&. Co., Piqua, O.
Richardi & Bechtold (Kitchen, Dairy, Bakery & Confectioners' Utensils), Bellaire, Mich.
Russell Bros. & Estes, Farmington, Me.
Sandusky Tool Co. (Croquet Balls, Indian & Base Ball Clubs, Small Handles, Mauls. Potato Mashers, Mallets, Bung Starters. Chalk Line Reels, etc.), Sandusky, O
Sidney Novelty Co., Sidney, N. Y.
Sommer, John Faucet Co. (Faucets, Mallets. Rolling Pins, Reels, Mashers, Air Vents etc.), Newark, N. J
Standard Novelty Works, Texarkana, Ark.
Stowell, N. S. Spool & Wood Turning Co (Spools. Tool & Small Handles, Boxes, etc.) Dixfield, Me
Wausau Novelty Co., Wausau, Wis.
Western Box Co. (Druggists' Boxes, Lock Corner Boxes, etc.). 42 River, Chicago, Ill
Weston Paper & Mfg. Co. (Wood Pie Plates & Dishes), Dayton, O
Williams & Marvin Mfg. Co. (Caster Wheels Closet Pulls, Small Knobs, Pin Bushings & Variety Turnings), Deep River, Conn
Woodstock Hardwood & Spool Mfg. Co. (Heavy Hardwood for Shipbuilding & Locomotive Building, Textile Mills, etc.). Charleston S. C.

## 13239a–Wood Pipe Casings ("Wyckoff")

**WYCKOFF, A. & SON CO. (Patent** Waterproof Steam Pipe Coverings), Elmira, N. Y. & Alexandria, La. (See adv. index, end of book)

## 13240–Wood Preservatives

(See also Creosoting Works)

American Mfg. Co., Minneapolis, Minn.
American Wood Preserving Co. ("Antiseptine" for Structural Timber, etc.), 1351 N Branch, Chicago, Ill.
Anthracenol Wood Preserving Co. ("Barol" Coppered Carbolineum), 264 Spring, New York
Atlas Preservative Co. ("Atlas"), 95 Liberty, New York
Barber Asphalt Paving Co. (Dead Oil of Coal Tar Process), Maurer, N. J.
Barrett Mfg. Co. (Creosote), 17 Battery pl, New York
C. A. Wood Preserver Co. ("C. A."), Austin, Tex.
**CABOT, SAMUEL ("Conservo"), 141** Milk, Boston, Mass. (See adv. index & branch offices, end of book)
Carbolineum Wood Preserving Co. ("Avenarius Carbolineum"), Portland, Ore., Milwaukee, Wis. & 182 Franklin, New York.
Cromwell-Walker Co., Harrison, N. J.
Dielectric Mfg. Co. ("Phenoleum"), St. Louis, Mo.
Electric Fireproofing Co., New York
Eppinger & Russell Co., 165 B'way, New York
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York. (See adv. index, end of book)


BRUNO GROSCHE & CO. PRESERVES TARPAULINS CANVAS
S.P.F.
CARBOLINEUM WOOD PRESERVING OIL

PREVENTS rot and decay of woodwork above or below the ground or water.

WATERPROOFS damp brick and stone walls.

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Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York
**INDIAN REFINING CO. ("Indian"** Timber Asphalt), 123 William, New York. (See adv. index & branch offices, end of book)
Indianapolis Chemical Co., Indianapolis, Ind.
International Creosoting & Construction Co., Galveston, Tex.
Kern Commercial Co. ("Karcoperlin"), 114 Liberty, New York
Kettle River Co., Minneapolis, Minn.
Menzel, Wm. & Son (Ligni Salvor), 64 Broad, New York
Milwaukee Wood Preserving Co., Milwaukee, Wis.

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**NEVIN, T. H. CO., North Side, Pittsburgh, Pa.** (See adv. index, end of book)
Norfolk Creosoting Co., Norfolk, Va.
Preservative Products Co. ("Eco"), 1133 B'way, New York
Protectus Co., North American bldg, Phila., Pa.
St. Paul White Lead & Oil Co. ("Kre-O-Sep-Tic"), St. Paul, Minn.
Sonneborn, L. Sons (Inc.), ("Amalia," "Korbol"), 262 Pearl, New York.
Spirittine Chemical Co., Wilmington, N. C.
Suydam, M. B. Co., Pittsburg, Pa.
Teredo-Proof Paint Co. ("Kennon's" Teredo-Proof Paint), Produce Exchange, New York
U. S. Wood Preserving Co., 165 B'way, New York. Works, Perth Amboy, N. J.
Wood, C. A. Preserver Co. (Wood Preserving Oils), Austin, Tex.

## Wood Preserving
(See Cresoting Works)

## 13241—Wood Pulp Mfrs.
**du PONT, E. I., de NEMOURS POWder Co.** (Wood Flour for Mfrs. of Explosives, Linoleum, etc.), Wilmington, Del. (See adv. index & branch offices, end of book)

## 13242— Wood Stains
Acme White Lead & Color Works, Detroit, Allentown Mfg. Co., Allentown, Pa. Mich.
American Wood Preserving Co. ("Antiseptine" for Interior or Exterior), 1351 N Branch, Chicago, Ill.
Ashley, T. C. & Co., 54 High, Boston, Mass.
Barrett, Chas. A. P. Co., Dayton, O.
Berry Bros. (Ltd.), Detroit, Mich.
Billing-Chapin Co., Cleveland, O.
Billings, King & Co., 438 Pearl, New York
Bowers, U. R. & Sons ("Afro-Lac"), Los Angeles, Cal.
Boydell Bros. White Lead & Color Co., Detroit, Mich.
Bridgeport Wood Finishing Co. (Oil, Water & Penetrating), New Milford, Conn.
**CABOT, SAMUEL, 141 Milk, Boston,** Mass. (See adv. index & branch offices, end of book)
Chicago Varnish Co. (Wood Tints), 2090 Elston av, Chicago, Ill.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Cromwell-Walker Co., Harrison, N. J.
Devoe, F. W. & C. T. Raynolds Co., Fulton & William, New York.
Dexter Bros. Co., Boston, Mass.
Eagle Paint & Varnish Co., N S, Pittsburg, Pa.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Forest City Paint & Varnish Co., Cleveland, O.
**FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa.** (See adv. index, end of book)
Glidden Varnish Co., Cleveland, O.
**GROSCHE, BRUNO & CO., 13 Jones** Lane, New York (See adv. index, end of book)
Harrison Bros. & Co. (Inc.), 35th c Gray's Ferry rd, Phila, Pa.
Johnson, S. C. & Son ("Johnson's" Dye), Racine, Wis.
King Paint Mfg. Co., 27 Dunham pl, Brooklyn N. Y.
Kroeger Bros., 880 McKim, Baltimore, Md.
Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.
Lucas, J. & Co., 322 Race, Phila., Pa.
McLennan Paint Co., Detroit, Mich.
McQuade, John & Co., 416 Marcy av., Brooklyn, N. Y.
Marietta Paint & Color Co., Marietta, O.
Masury, John W. & Son, Brooklyn, N. Y.
Messenger, F. H. Co., Auburn, N. Y.
**NEVIN, T. H. CO., North Side, Pittsburgh, Pa.** (See adv. index, end of book)
Nice, Eugene E., 272 S 2d, Phila., Pa.
O'Brien Varnish Co., South Bend, Ind.
Patterson-Sargent Co. ("Monastery" Stains), Cleveland, O.
Pratt & Lambert (Inc.), 100 William, New York
St. Paul White Lead & Oil Co., St. Paul.
Sherwin-Williams Co., Cleveland, O. Minn.
Standard Varnish Works, 29 B'way New York
Union Roofing & Mfg. Co. (Creosote), St. Paul, Minn.
Wadsworth, Howland & Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
Wadsworth, Howland & Co., Boston, Mass.
Whitehead, J. W. Jr. ("Whitehead"), 1 Madison av, New York
Wilhelm, A. Co., Reading, Pa.
Woolsey, C. A. Paint & Color Co., Merseles & Colden, Jersey City, N. J.
Yarnall Paint Co. ("Y. B.," "Standard"), 1020 Race, Phila., Pa.

## 13243—Wood Turned Goods, Etc.
(See Wood Novelties, Turned, Etc.)

## 13244—Wood Turned House Trimmings
(See Columns, Porch, etc., Manufacturers; also Corner, Base & Head Block Manufacturers; also Grille, Fret & Lattice Work; also Mouldings, Various Kinds; also Ornaments, Wood; also Stair Builders' Supplies)

## 13245—Wood Turning (Architectural)
Angne, G. & Co., Cincinnati, O.
American Wood Working Co., 4345 Wabansia av, Chicago, Ill.
American Wood Working Co., 199 Warren, New York
Baltimore Pattern & Model Works (Circus Wagon, Show Fronts, Animals, Birds Images, etc.), Baltimore, Md.
Batavia & New York Woodworking Co., Ba-Bender Co., Hamilton, O. tavia, N. Y.
Blair, H. Crawford, Providence, R. I.
Boynton & Co., 1725 Dickson, Chicago, Ill.
Buffalo Grille Co., Buffalo, N. Y.
Central Wood Turning Co., Minneapolis, Minn.
Clark, G. A. (House Turnings, etc.), Sidney, N. Y.
Dickey, Adam & Co., Boston, Mass.
Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.
Gass, John H. Co., 601 Sackett, Brooklyn, N.Y.
Hillerich, J. F. & Son, Louisville, Ky.
Lewis, W. E. Mfg. Co. (Wooden Novelties), Springfield, Pa.
Lovejoy, G. W., Kansas City, Mo,
Mitchell, Robt. Furniture Co., Cincinnati, O.
New York Carved Moulding Co., 3rd av & 139th, New York
**OSIECKI, THOS., 600 Kent av,** Brooklyn, N. Y.
Peirce, W. E. & Co., Milford, N. H.
Pinches, Jno. Co., New Britain, Conn.
Root, C. R., Hartford, Conn.
Schaefer, Louis, W 21st c Loomis, Chicago, Ill
**STEARNS, A. T. LUMBER CO., Neponset, Boston,** Mass. (See adv. index, end of book)
Stoertz Bros., Rochester, N. Y.

## 13246—Wood Turning & Enameling
American Enamel Co., Providence, R. I.
Baker, McMillen Co., Akron, O.
Brown, Lyman, Fitchburg, Mass.
Estes, E. B. & Sons, 74 Warren, New York
Handy Things Co., Ludington, Mich.
Novelty Turning Co., Norway, Me.
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H.
Providence Enamel Co., Providence, R. I.
Schutz Bros., 71 W B'way, New York

## 13247—Wood Turnings (Automatic)
American Enamel Co. (Artistic & Novelty Small Turned Woodwork), Providence, R. I.
Bogert & Hopper Co., 162 William, New York
Boynton & Co., 1725 Dickson, Chicago, Ill.
Estes, E. B. & Sons, 74 Warren, New York
Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia.
Mahle, C. A. & Son (Ltd.) (Variety), Corry, Pa.
New York Carved Moulding Co., 3rd av & 139th, New York
Peirce, W. E. & Co., Milford, N. H.
Rowe, Henry Mfg. Co. (Handles, Draw Pulls, Balls, Spindles, etc.), Newaygo, Mich.
Stephenson Mfg. Co., South Bend, Ind.
Thayer, Geo. A., Spruce Corner, Mass.
Tebbets, E. L. Spool Co. (Variety Turnings), Locke Mills, Me.

## 13248—Wood Turnings (Electrical)
(See also Woodwork, Electrical)
American Enamel Co. (Also Enameled Turnings), Providence, R. I
American Wood Working Co., 4345 Wabansia av, Chicago, Ill.
Bogert & Hopper Co., 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia.
Mahle, C. A. & Son (Agl. Wrench Handles, Brush & Broom Blocks, etc.), Corry, Pa.
New York Carved Moulding Co., 3rd av & 139th, New York
Novelty Turning Co. (Handles, Knobs, Buttons & Cord Adjusters, etc.), Norway, Me.
Ohio Scroll & Lumber Co. (Inc.), Covington, Ky.
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H.
Thayer, Geo. A., Spruce Corner, Mass.
Union Hardware Co. (Of All Kinds), Providence, R. I.

## 13248a—Wood Turnings (Rope & Spiral)
(See Mouldings, Various Kinds)

## 13249— Wood Wool
Detroit Excelsior Works, Detroit, Mich.

## 13250—Woodenware & Novelties, Mfrs.
(See also Wood Novelties, Turned, etc.)
Anderson Box & Basket Co. (Boxes & Baskets), Henderson, Ky.
Ballou Manufacturing Co. (Baskets, etc.), Belding, Mich.
Belding Hall Mfg. Co. (Stove Boards, etc.), Belding, Mich.
Bliss Mfg. Co. (Woodenware, Mop Sticks, etc.), Bliss, N. Y.
Booth & Ensign (Baskets), Gasport, N. Y.
Bousfield & Co. (Pails, Tubs & Packages), Bay City, Mich.
Brammer, H. F., Mfg. Co. (Woodenware & Washing Machines), Davenport, Ia.
Bridgeport Woodenware Mfg. Co., Bridgeport, Ala.
Cummer Mfg. Co. (Woodenware, etc.), Cadillac, Mich.
Escanaba Mfg. Co., St. Louis, Mo.
Fuller, L. A., Marlboro Depot, N. H.
Handy Things Co., Ludington, Mich.
Hercules Specialty Co., Grove City, Pa.
Keene Woodenware Co., Keene, N. H.
King Mfg. Co., Piqua, O.
Law, Ernest & Co. (Wooden Tent Poles & Pins), Harrison Bldg, Phila., Pa.
Lewis, W. E. Mfg. Co. (Wooden Novelties), Springfield, Pa.
Ludington Woodenware Co., Ludington, Mich.
Martin, Leason (Chair Stock, Pails, etc.), Richmond, N. H.
Menasha Woodenware Co., Menasha, Wis.
**OSBORN MFG. CO. (Rice Plant), New** Durham, N. H.
Oval Wood Dish Co. (Dishes, etc.), Traverse City, Mich.
Richardi, H., Bellaire, Mich.
Richardi & Bechtold, Bellaire, Mich.
Richmond Cedar Works, Richmond, Va.
Stokes, W. A. & Co., 30 Warren, New York
Udell Works (House Furnishing & Kitchen Woodenware), Indianapolis, Ind.
Wellington, E. I. Rindge, N. H.
Wolf, Peter, Lomira, Wis.

## 13251—Woodwork (Archticural & Interior)
(See Interior Hardwood Work; also Sashes, Doors & Blinds)

## 13252—Woodwork (Electrical)
(See Telephone Cabinet Work; also Wood Turnings, Electrical; also Mouldings, Electric Wiring)

## 13253—Wool Carbonizers
Cochrane Chemical Co., Boston, Mass.

## 13254— Wool Wadding
Bacon, Felt Works, Winchester, Mass.
Evans & Co. ("Hygiene"), Lockport, N. Y.

## 13255—Wrappers (Coin)
Detroit Coin Wrapper Co. ("Detroit," Made of Heavy Pressed Paper), Detroit, Mich.
Salisbury Mfg. Co., Providence, R. I.

## 13256—Wrappers (Conduit Joint)
Phila. Electrical Mfg. Co., 1228 N 31st, Phila, Pa.

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## Wrecking (Building)

(See Building Materials, Second-Hand)

## 13257— Wrench-Set

C. M. B. Wrench Co. ("Silver King"), Syracuse, N. Y.

## 13258—Wrenches (Adjustable)

Anderson Wrench Co. ("Turnmore"), Port-Portland, Conn.
Bemis & Call Harware & Tool Co. (S. Nut & Pipe), Springfield, Mass.
Billings & Spencer Co., Hartford, Conn.
Bullock Mfg. Associates ("Bullock"), Springfield, Mass.
Crescent Tool Co. ("Crescent" Drop Forged), Jamestown, N. Y.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Du Charme Co., Cambridge, O.
Erie Tool Works, Erie, Pa.
Greene, Tweed Co. ("Baxter"), 109 Duane, New York
Hall, Chas. E. Co., Buffalo, N. Y.
Hjorth, Wm. & Co., Jamestown, N. Y.
Greene, Tweed Co. ("Baxter"), 109 Duane, New York
Hall, Chas. E. Co., Buffalo, N. Y.
Hjorth, Wm. & Co., Jamestown, N. Y.
Keystone fg. Co. ("Westcott S."), Buffalo, N. Y.
Mark Mfg. Co. ("Baxter's"), Evanston, Ill.
Monte Wrench Co., Shelboyville, Ind.
Mossberg, Frank Co. ("Sterling" "Diamond" "Alderman" "National" A. & B. Series), Attleboro, Mass.
Oliver Mfg. Co., 326 Desplaines, Chicago, Ill.
Rex Wrench Co. ("Rex" Adjustable Wrench Set), Boston, Mass.
**RICHARDS - WILCOX MFG. CO.** ("Richards," "Shark" & Elgin"), Third Q, Aurora, Ill. (See adv. index & branch offices, end of book)
Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
Uwanta Wrench Co. ("Uwanta" Instantaneous), Meadville, Pa.
Webb & Hildreth Mfg. Co. (Automatic), Gloversville, N. Y.
Welch, T. F. & Co. (Adjustable Tap), 65 Sudbury, Boston, Mass.
**WELLS BROS. CO. ("Little Giant")**, Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.** (Monkeyed), Akron, O. (See adv. index & branch offices, end of book)

## 13259—Wrenches (Adjustable, Pocket)

Billings & Spencer Co., Hartford, Conn.

## 13260—Wrenches (Agricultural)

**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)
Girard Wrench Mfg. Co. (Forged), Girard, Pa.
Indianapolis Drop Forging Co. (Screw), Indianapolis, Ind.
Lamson & Sessions Co. ("Canfield," Wrought Bar), Cleveland, O.
Monte Wrench Co., Shelbyville, Ill.
Uwanta Wrench Co. ("Uwanta"), Meadville, Pa.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 13261—Wrenches (Alligator)

(See Also Wrenches, Always Ready)

**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
S. & I. Co. ("S. & I." Universal), Springfield, Mass.
**WHITMAN & BARNES MFG. CO.,** ("Bull-Dog"). Akron, O. (See adv. index & branch offices, end of book)

## 13262—Wrenches (Always Ready)

Bonney Vise & Tool Works, Allentown, Pa.
Cape Ann Tool Co., Rockport, Mass.
Forsyth Mfg. Co., Buffalo, N. Y.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Lake Superior Wrench Co. ("Lake Superior"), Marshalltown, Ia.
Oswego Tool Co., Oswego, N. Y.
Vaughan & Bushnell Mfg. Co., Chicago, Ill.
Wells, F. E. & Son Co., Greenfield, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 13263—Wrenches (Automatic)

Crescent Tool Co. ("Crescent"), Jamestown, N. Y.
Trimont Mfg. Co. ("Trimo"), Amory av, Roxbury, Boston, Mass.
Webb & Hildreth Mfg. Co., Gloversville, N. Y.

## 13264—Wrenches (Automobile)

Billings & Spencer Co. ("B. & C." Drop Forged), Hartford, Conn.
**COES WRENCH CO. ("Star 91"),** Worcester, Mass. (See adv. index, end of book)
Erie Tool Works, Erie, Pa.
Essex Supply Co., Newark, N. J.
**GLOBE MACHINE & STAMPING CO.,** 3868 Hamilton av, Cleveland, O. (See adv. index, end of book)
Hall, Chas. E. Co., Buffalo, N. Y.
Handy Tool Co., Bellevue, O.
Harris, E. T. ("Service," "Alligator"), 1500 W 15th, Chicago, Ill.
Kimball Co. ("Rapid"), Boston, Mass.
Oswego Tool Co. ("Stillson" Pattern), Oswego, N. Y.
Pederson Mfg. Co. ("Ferret"), 636 1st av, New York
Perfection Wrench Co. ("Perfection," Many Tools in One), Port Chester, N. Y.
Q. M. S. Co. ("Auto-cle," "Titus-cle"), Plainfield, N. J.
Railway Appliances Co. ("Auto-Cle" Ratchet), Old Colony bldg, Chicago, Ill.
Rex Wrench Co. ("Rex" T. Socket, Also for Motor Boats), Boston, Mass.
Ronson Specialty Co. ("Ronson," Nine in One), Newark, N. J.
**STARRET, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)
Syracuse Wrench Co. ("Yala"), Syracuse, N.Y.
Trimont Mfg. Co. ("Trimo"), Roxbury, Boston, Mass.
Wakefield, C. E., Worcester, Mass.
Walden Mfg. Co., Worcester, Mass.
Warren Axle & Tool Co. ("American"), Warren, Pa.
**WHITMAN & BARNES MFG. CO.,** ("W. & B"), Akron, O. (See adv. index & branch offices, end of book)

## 13264a—Wrenches ("Baby Vixen")

Bonney Vise & Tool Works (Inc.) (Drop Forged), Allentown, Pa.

## 13265—Wrenches (Basin)

**BERNZ, OTTO, ("Buzzell"), 21 Ashland** av, Newark, N. J. (See adv. index, end of book)
B.-B. Mfg. Co., Cleveland, O.
Beekman Sanitary Specialty Co., 312 W 34th, New York
Famous Mfg. Co., Grand Rapids, Mich.
Federal-Huber Co., 234 N Halsted, Chicago, Ill.
Glauber, M. & Co., 10 Christopher, New York
Osborne, C. S. & Co. ("Buzzell's"), Harrison,
Rogers, Printz & Co., Warren, Pa. N. J.
Sayre, L. A. & Co., 332 Mulberry, Newark, N. J.
Trimont Mfg. Co. ("Trimo"), Armory av., Roxbury. Boston, Mass.
Wolff, L. Mfg. Co., 601 Lake, Chicago, Ill.
Woodward & Wanger, 625 Cherry, Phila., Pa.

## 13266—Wrenches (Bicycle & Pocket)

Andrews, C. E., Forestville, Conn.
Barnes Tool Co., New Haven, Conn.
Beckley-Ralston Co., 80 Michigan av, Chicago.
Billings & Spencer Co., Hartford, Conn. Ill
Bonney Vise & Tool Works (Inc.) ("Monkey"), Allentown, Pa.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Crosby Co., Buffalo, N. Y.
Ellis Mfg. Co., Milldale, Conn.
Fletcher, Terry & Co., Forestville, Conn.
Forsyth Mfg. Co., Buffalo, N. Y.
Hall, Chas. E. Co., Buffalo, N. Y.
Herbrand Co., Fremont, O.
Jennings, C. E. Co., 42 Murray, New York
Lamson & Sessions Co. (Case Hardened Steel Screw Wood Handle; also the "Buckeye"), 2188 Scranton Rd, S. W., Cleveland, O.
Lowentraut, P. Mfg. Co., Newark, N. J.
Mossberg, Frank Co., Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
Page-Storms Drop Forge Co., Chicopee, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith, Thomas & Co., Worcester, Mass.
Smith & Egge Mfg. Co., Bridgeport, Conn.
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Star Mfg. Co., Carpentersville, Ill.
Sturges & Burn Mfg. Co., Chicago, Ill.
Tower & Lyon Co., 95 Chambers, New York
Wakefield, C. E., Worcester, Mass.
Williams, J. H. & Co., Brooklyn, N. Y.

## 13267—Wrenches (Box)

Billings & Spencer Co., Hartford, Conn.
Page-Storms Drop Forge Co., Chicopee, Mass.
Robinson, M. W. Co. ("Robinson," Steel), 88 White, New York
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 13268—Wrenches (Brace Socket)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Cincinnati Tool Co., Norwood, Cincinnati, O.
**WELLS BROS. CO. ("Little Giant,"** Tap), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.

## 13269—Wrenches (Bridge Builders')

Lowell Wrench Co. (Old Style & Steel Socket), Worcester, Mass.

## 13269a—Wrenches ("Bull Dog")

**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 13269b—Wrenches ("Bull Terrier")

**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 13270—Wrenches (Car Builders')

Page-Storms Drop Forge Co., Chicopee, Mass.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## 13271—Wrenches (Carriage)

Goodell Co., Antrim, N. H.
Hunt, Helm, Ferris & Co. (Adjustable), Harvard, Ill.
Hurley, John A. (Inc.) (Self-Adjusted Nickel Plated), Bridgeport, Conn.
Joy, A. P., Rockingham, N. H.
Mason, F. C. & Co., St. John, Mich.
Millers Falls Co. (Malleable Iron, Adjustable), 28 Warren, New York
Oliver Mfg. Co., 326 S Desplaines, Chicago, Ill.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
Tower & Lyon Co., 95 Chambers, New York
Union Malleable Iron Co., East Moline, Ill.

## 13272—Wrenches (Carriage & Tire Bolt)

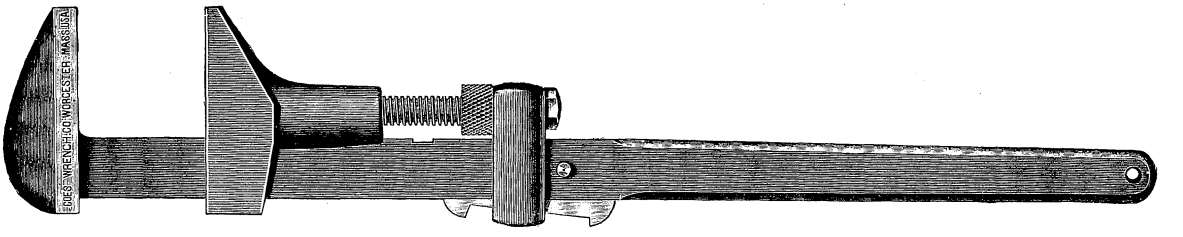
Custer Mfg. Co. ("Handy" Tire Bolter), Summitville, Ind.
Leavens Mfg. Co. ("O. K." Tire Bolt), Vineland, N. J.
Tudor Mfg. Co. ("Bay State" Ratchet), Taunton, Mass.

## 13273—Wrenches (Chain)

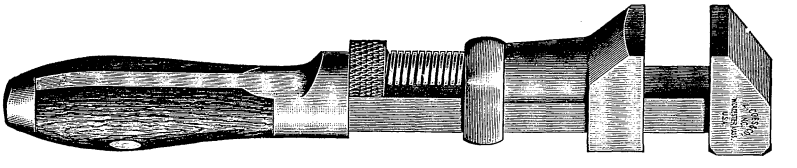
Bonner, C. E. Mfg. Co. ("Victor" Reversible), Champaign, Ill.
Brock Wrench Mfg. Co. (Drop Forged), 18 Dey, New York
Drop Forging Co. of New York ("Spartan"), Jersey City, N. J.
Hilts Wrench & Mfg. Co. (Adjustable Pipe), Richford, N. Y.
Kroeschell Bros. Co. ("Ideal"), 440 W Erie, Chicago, Ill.
**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)
Robbins, Gamwell & Co., Pittsfield, Mass.
Rochester Drop Forge Co. ("Robbins," Pattern), Rochester, N. Y.
Standard Nipple & Tool Co. ("Duplex"), West Newton, Pa.
Trimont Mfg. Co. ("Trimo"), Armory av, Roxbury, Boston, Mass.
Williams, J. H. & Co. ("Vulcan-Bijou," "Agrippa," Pipe Wrenches), 150 Hamilton av, Brooklyn, N. Y.

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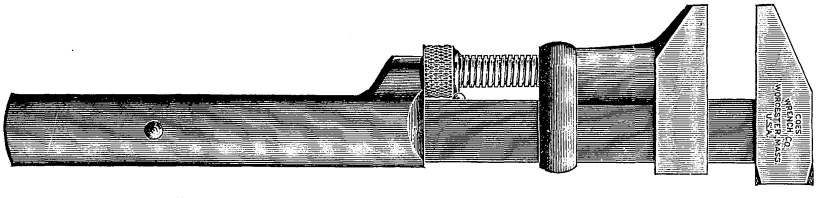
# COES WRENCHES




**KEY MODEL,** 28, 36, 48 AND 72 INCHES LONG



**"KNIFE-HANDLE"** 6 TO 21 INCHES LONG



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## Hendricks' Commercial Register

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## 13274—Wrenches (Chuck)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.
**MORSE TWIST DRILL & MACHINE** Co. (For Chucks), New Bedford, Mass. (See adv. index, end of book)
Page-Storms Drop Forge Co., Chicopee, Mass.

## 13275—Wrenches (Combination)

Bemis & Call Hardware & Tool Co. (Pipe & Nut), Springfield, Mass.
Bonney Vise & Tool Works (Inc.), ("Viven"), Allentown, Pa.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Hawkeye Wrench Co., Marshalltown, Ia.
Monte Wrench Co., Shelbyville, Ind.
Stortz, Jno. & Son ("S"), 210 Vine, Phila, Pa.
Tower & Lyon Co., 95 Chambers, New York
Uwanta Wrench Co. ("Uwanta"), Meadville, Pa.
**WHITMAN & BARNES MFG. CO.** ("W & B"), Akron, O. (See adv. index & branch offices, end of book)

## 13276—Wrenches (Crocodile)

(See Wrenches, Alligator)

## 13277— Wrenches (Dog)

Le Count, Wm. G. (Steel), South Norwalk, Conn.
Trimont Mfg. Co., Roxbury, Boston, Mass.
**WHITMAN & BARNES MFG. CO.** ("Bull Dog"), Chicago, Ill. (See adv. index & branch offices, end of book)

## 13278—Wrenches (Drop Forged)

Bemis & Call Hardware & Tool Co. (Adjustable "S," Pipe, Nut & Screw), Springfield, Mass.
Billings & Spencer Co., Hartford, Conn.
Bonney Vise & Tool Works, Allentown, Pa.
Brock Wrench Mfg. Co., 18 Dey, New York
Brown, R. H. & Co., New Haven, Conn.
Canton Drop Forge & Mfg. Co., Canton, O.
Eccles, Richard Co., Auburn, N. Y.
Erie Tool Works, Erie Pa.
Hall, Charles E. Co., Buffalo, N. Y.
Harbison Mfg. Co., Kansas City, Mo.
Harris, Wm. & Son Co. ("Filter"), N S, Pittsburg, Pa.
Hawkeye Wrench Co., Marshalltown, Ia.
Hjorth, Wm. & Co., Jamestown, N. Y.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Keystone Drop Forge Works, Chester, Pa.
Kilborn & Bishop Co. (Pipe), New Haven, Conn.
Le Count, W. G., South Norwalk, Conn.
Marshalltown Drop Forge Co., Marshalltown, Iowa
Page-Storms Drop Forge Co., Chicopee, Mass.
Rhode Island Tool Co., Providence, R. I.
**RICHARDS - WILCOX MFG. CO.** ("Wizard"), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)
**ROEBLING'S, JOHN A. SONS CO.,** Main Office, Trenton, N. J. Works, Trenton & Roebling, N. J. (See adv. index & branch offices, end of book)
Smith, H. D. & Co., Plantsville, Conn.
**SMITH & HEMENWAY CO. ("Red Devil"),** 150 Chambers, New York. (See adv. index, end of book)
Trimont Mfg. Co. ("Trimo"), Armory av, Roxbury, Boston, Mass.
Vaughan & Bushnell Mfg. Co., Chicago, Ill.
**WELLS BROS. CO. ("Little Giant,"** Tap), Greenfield, Mass. (See adv. index & branch offices, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Western Tool & Forge Co., Brackenridge, Pa.
Whitaker Mfg. Co. (Steel), 509 W Monroe, Chicago, Ill.
**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)
Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 13279—Wrenches (Engineers' & Machinists')

Bemis & Call Hardware & Tool Co., Springfield, Mass.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Bonney Vise & Tool Works (Inc.), (Thin Wrenches, etc.), Allentown, Pa.
Brock Wrench Mfg. Co. ("I. X. L." Nut & Engineers), 18 Dey, New York
Canton Drop Forge & Mfg. Co., Canton, O.
Card, S. W. Mfg. Co., Mansfield, Mass.
Chester Steel Castings Co., Chester, Pa.
**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)
**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)
Crescent Tool Co. ("Crescent" Drop Forged Adjustable Engines), Jamestown, N. Y.
Dayton Malleable Iron Co. (Made of Malleable Iron, for Railroads & Car Shops, Trade Mark D), Dayton, O.
Eccles, Richard Co. (Drop Forged), Auburn, N. Y.
Erie Tool Works, Erie, Pa.
Girard Wrench Mfg. Co., Girard, Pa.
Hall, Chas. E. Co., Buffalo, N. Y.
Handlan-Buck Mfg. Co. ("Bucks"), 212 N 3d, St. Louis, Mo.
Harris & Reed Mfg. Co. ("Onward"), 1500 W 15th, Chicago, Ill.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Irving Mfg. & Tool Co., 157 Chambers, New York
Jones & Laughlin Steel Co., Pittsburg, Pa.
Keystone Drop Forge Works (Drop Forge), Chester, Pa.
Lamson & Sessions Co. ("Canfield" Case Hardened Screw), Cleveland, O.
Losee Wrench Works, Corry, Pa.
Page-Storms Drop Forge Co. (Set Screw, Chuck, Milling Machine, Box, Socket, Check Nut, Straight End, Car Construction "S," Structural), Chicopee, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Reed Mfg. Co. ("Tiger," Standard), Erie, Pa.
Rhode Island Tool Co. (Drop Forged Single & Double End), Providence, R. I.
Rogers, Printz & Co. ("Arpeco"), Warren, Pa.
**RYERSON, JOS. T. & SON, 2558 W** 16th, Chicago, Ill. (See adv. index & branch offices, end of book)
S. & I. Co. ("S. & I." Pressed Steel, Double End), Springfield, Mass.
Tower & Lyon Co., 95 Chambers, New York
Trimont Mfg. Co. ("Trimo"), Amory av, Roxbury, Boston, Mass.
Tudor Mfg. Co. ("Bay State"), Taunton, Mass.
Uwanta Wrench Co. ("Uwanta"), Meadville.
Walworth Mfg. Co., Boston, Mass. Pa.
**WELLS BROS. CO., Greenfield, Mass.** (See adv. index & branch offices, end of book)
Whitaker Mfg. Co. (Drop Forged Steel), 509 W Monroe, Chicago, Ill
**WHITMAN & BARNES MFG. CO.** (Screw, Knife Handle), Akron, O. (See adv. index & branch offices, end of book)
Williams, J. H. & Co. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y.
Wright Wrench & Forging Co. ("Wright," Monkey Wrench), Canton, O.

## 13280—Wrenches (Fixture)

Du Charme Co. ("Du Charme"), Cambridge, O.
Yost Electric Mfg. Co. ("Falcon"), Toledo, O.

## 13281—Wrenches (Flange)

**GRISCOM-SPENCER CO. ("Mayer"** Ratchet Reversible), 90 West, New York. (See adv. index & branch offices, end of book)
**STRONG, CARLISLE & HAMMOND** Co. ("Strong" Utility"), 336 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

## 13282—Wrenches for Underground Valves

Kennedy Valve Mfg. Co., Elmira, N. Y.

## 13283—Wrenches (Fruit Jar)

**ARCADE MFG. CO. ("Little Giant"),** Freeport, Ill. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co. ("Berthoud"), 6106 La Salle, Chicago, Ill.
Forbes, Benj. P. ("Triumph"), 409 Superior av, N W, Cleveland, O.
Wolverine Supply & Mfg. Co. ("Little Giant" Holder & Opener), Pittsburg, Pa.

## 13283a—Wrenches (Hammer Handle)

**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)

## 13284—Wrenches (Key Adjusting)

**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)

## 13284a—Wrenches (Knife Handle)

**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)

## 13285—Wrenches (Lag Screw)

Dicke Tool Co., Downers Grove, Ill.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
Lowell Wrench Co., Worcester, Mass.
**SMITH & HEMENWAY CO. ("Red Devil",** Drop Forged Log Screw & Bolt), 150 Chambers, New York. (See adv. index, end of book)
Webb & Hildreth Mfg. Co. ("Automatic), Gloversville, N. Y.

## 13286—Wrenches (Lathe Dog)

Phoenix Hardware Mfg. Co., Homer, N. Y.

## 13287—Wrenches (Lock Jaw)

**JEFFREY MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)

## 13287a—Wrenches (Locomotive)

**WHITMAN & BARNES MFG. CO.,** Akron, O. (See adv. index & branch offices, end of book)

## Wrenches (Machinists')

(See Wrenches, Engineers' & Machinists')

## 13288—Wrenches (Metal Handle)

**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)
**WHITMAN & BARNES MFG. CO.** ("Railroad Special"), Akron, O. (See adv. index & branch offices, end of book)

## 13289—Wrenches (Nut)

Anderson Coupling Co. ("Turn More," Anderson Adjustable), Hartford, Conn.
Anderson Wrench Co. ("Turn More", Anderson Adjustable), Portland, Conn.
Bemis & Call Hardware & Tool Co. ("Briggs", "Merrick", Pattern), Springfield, Mass.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Bridgeport Hdwe. Mfg. Co. ("Ready Grip"), Bridgeport, Conn.
Bullock Mfg. Associates (Adjustable), Springfield, Mass.
**COES WRENCH CO., Worcester,** Mass. (See adv. index, end of book)
Erie Tool Works, Erie, Pa.
Hall, Chas. E. Co. (Adjustable), Buffalo, N. Y.
Hawkeye Wrench Co. ("Hawkeye"), Marshalltown, Ia.
Hjorth, Wm. & Co. ("Lighting"), Jamestown, N. Y.
Joy, A. P., Rockingham, N. H.
Keystone Mfg. Co. ("Wescott"), Buffalo, N.Y.
Losee Wrench Co. (Forged Steel), Corry, Pa.
Monte Wrench Co., Shelbyville, Ind.
Oliver Mfg. Co. 326 S Desplaines, Chicago, Ill.
Oswego Tool Co. (Adjustable), Oswego, N. Y.
Rogers, Printz & Co. ("Arpeco"), Warren, Pa.
Page-Storms Drop Forge Co. (For Check, Jam or Lock Nuts), Chicopee, Mass.
Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
Trimont Mfg. Co. ("Trimo," "Monkey"), Amory av, Roxbury, Boston, Mass.
Tudor Mfg. Co. ("Bay State"), Taunton, Mass.
Uwanta Wrench Co. ("Uwanta," Nut or Monkey Wrench), Meadville, Pa.
Wakefield, C. E. ("Wakefield"), Worcester, Mass.
Webb & Hildreth Mfg. Co. (Automatic), Gloversville, N. Y.
**WELLS BROS. CO. ("Little Giant"** Bit Brace & Ratchet), Greenfield, Mass. (See adv. index & branch offices, end of book)
**WHITMAN & BARNES MFG. CO.** (Check Nut), Akron, O. (See adv. index & branch offices, end of book)
Wright Wrench & Forging Co. ("Wright," Monkey Wrench), Canton, O.

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## 13290—Wrenches (Nut, Bit Brace)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

**WELLS BROS. CO. (Also for Ratchets)**, Greenfield, Mass. (See adv. index & branch offices, end of book)

## 13291—Wrenches (Pin)

Billings & Spencer Co. (Drop Forged Steel), Hartford, Conn.

## 13292—Wrenches (Pipe)

**ARMSTRONG MFG. CO., 278 Knowlton**, Bridgeport, Conn. (See adv. index & branch offices, end of book)

Belden Machine Co. ("Hayden," Brass & Nickel), New Haven, Conn.

Bemis & Call Hardware & Tool Co. (Combination Pipe & Nut), Springfield, Mass.

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Bonner, C. E. Mfg. Co. ("Victor"), Champaign, Ill.

Bonney Vise & Tool Works (Inc.), ("Stillson," Pattern), Allentown, Pa.

Brock Wrench Mfg. Co. (The "Brock," "Yankee" & "Standard"), 18 Dev New York

Cochran Pipe Wrench Mfg. Co., Woodlawn av & 78th, Chicago, Ill.

Crane Valve Co., Bridgeport, Conn.

Crescent Forging Co. ("Cresco"), Oakmont, Pa.

Cronk & Carrier Mfg. Co., Elmira, N. Y.

Darling Pump Mfg. Co. (Ltd.), Williamsport, Pa.

Detroit Embossing Machine Co. ("Ewer"), Detroit, Mich.

Drop Forging Co. of New York ("Spartan" Chain), Jersey City, N. J.

Ellis-Ford Mfg. Co. (Combination Pipe & Monkey Wrench), Detroit, Mich.

Enterprise Windmill Co. ("Enterprise"), Sandwich, Ill.

Erie Tool Works, Erie, Pa.

Greene-Tweed & Co. ("Champion"), 109 Duane, New York

Handlan-Buck Mfg. Co. ("Cochran"), 212 N 3d, St. Louis, Mo.

Hawkeye Wrench Co. ("Hawkeye"), Marshalltown, Ia.

Hilts Wrench & Mfg. Co. ("Hilts," "Eclipse" & Adjustable Chain), Richford, N. Y.

Hjorth, Wm. & Co. ("Empire," "Lightning"), Jamestown, N. Y.

Illinois Malleable Iron Co., 1801 Diversey boul, Chicago, Ill.

Indianapolis Drop Forging Co. ("Tiger"), Indianapolis, Ind.

Ithaca Drop Forge Co. (Drop Forged), Ithaca, N. Y.

Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.

Keystone Mfg. Co. (The "Westcott" Adjustable), Buffalo, N. Y.

Kilborn & Bishop Co. (Drop Forged), New Haven, Conn.

Kraeuter & Co. ("Victor" Alligator), Newark, N. J.

Kroeschell Bros. Co. ("Ideal"), 440 W Erie, Chicago, Ill.

Lake Superior Wrench Co. ("Lake Superior"), Marshalltown, Iowa

Lever Co. (Lever Adjustable), Newark, N. J.

Martin & Ogden Wrench Co. ("M. & O." Strap), S B. Boston, Mass.

Monte Wrench Co., Shelbyville, Ind.

Moore Drop Forging Co. ("Stillson" Drop Forged Wood or Steel Handle), Springfield, Mass.

**NASON MFG. CO., 71 Fulton, New** York. (See adv. index, end of book)

New Britain Machine Co. ("Pick-Up"), New Britain, Conn.

**OIL WELL SUPPLY CO. ("Franklin")**, 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Oswego Tool Co. ("Giles," "Improved Stillson" Drop Forged), Oswego, N. Y

Page-Storms Drop Forge Co. ("Irland" Drop Forged), Chicopee, Mass.

Parmelee Wrench Co. ("Parmelee's" Girdle), 2515 W Monroe, Chicago, Ill.

Pfeifer, F. ("Johnston"), 101 Reade, New York

Perfection Wrench Co. ("Perfection"), Port Reed Mfg. Co., Erie, Pa. Chester, N. Y.

**RICHARDS - WILCOX MFG. CO.** ("The Yankee Jaw"), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

Ripley Pipe Wrench Co. ("Leader"), Ripley, N. Y.

Robins, Gamwell & Co., Pittsfield, Mass.

Rogers, Printz & Co. ("Arneco"), Warren, Pa.

Saunders', D. Sons, Yonkers, N. Y.

Standard Nipple & Tool Co., West Newton, Pa.

Star Mfg. Co. ("Elgin" Pipe Jaw), Carpentersville, Ill.

Syracuse Wrench Co. ("Viaus" Auto Grip), Syracuse, N. Y.

Tower & Lyon Co. ("Involute"), 95 Chambers, New York

Trimont Mfg. Co. ("Trimo"), Amory av, Roxbury, Boston, Mass.

Uwanta Wrench Co. ("Uwanta" Pipe & Nut Combined), Meadville, Pa

Vaughn & Bushnell Mfg. Co. ("V. & B." Drop Forged Steel), 2130 W Carroll ave, Chicago, Ill.

Wakefield, Jno. E. ("Wakefield"), Worcester, Mass.

Walworth Mfg. Co. ("Stillson", "Allston's", "Hall"), Boston, Mass.

Washington Tool Co., Owattonna, Minn.

Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

Webb & Hildreth Mfg. Co. (Automatic), Gloversville, N. Y

**WELLS BROS. CO. ("Little Giant")**, Greenfield, Mass. (See adv. index & branch offices, end of book)

Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass

**WHITMAN & BARNES MFG. CO.** ("W. & B."), Akron, O. (See adv. index & branch offices, end of book)

Wright Wrench & Forging Co. ("Stover"), Canton, O.

## 13293—Wrenches (Pipe & Pipe Cutter Combined)

Bonney Vise & Tool Works ("Masterpieces"), Allentown, Pa.

## Wrenches Pocket

(See Wrenches, Bicycle & Pocket)

## 13294—Wrenches (Ratchet)

(See also Drills, Ratchet)

Adreon Mfg. Co. ("Adreon-Morse"), 319 N 4th, St. Louis, Mo

Brown, L. H. Mfg. Co. ("Neilson's" Combined Ratchet Wrench & Drill), Carlinville Ill.

**CLEVELAND PUNCH & SHEAR** Works Co., Cleveland, O. (See adv. index, end of book)

Green-Tweed & Co. ("Favorite," Reversible), 109 Duane, New York

Irving Mfg. Co. & Tool Co., 157 Chambers, New York

Keystone Mfg. Co. ("Keystone" Reversible), Buffalo, N. Y.

Lord, L. L. Co. ("Lord," with Handle), Meadville, Pa.

Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.

Lowell Wrench Co. (Reversible), Worcester, Mass.

Moore Drop Forging Co., Springfield, Mass

**RICHARDS - WILCOX MFG. CO.** ("Wizard" Adjustable), Third & Q, Aurora, Ill. (See adv. index & branch offices, end of book)

Pratt & Whitney Co., Hartford, Conn.

Simplex Mfg. Co. ("Turn-More"), 90 West New York

**STARRET, L. S. CO., Athol, Mass.** (See adv. index & branch offices, end of book)

Syracuse Wrench Co. ("Champion"), Syracuse, N. Y.

Tudor Mfg. Co. ("Bay State"), Taunton, Mass

Walden Mfg. Co., Worcester, Mass.

**WELLS BROS. CO. ("Little Giant")**, Greenfield, Mass. (See adv. index & branch offices, end of book)

Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

## 13295—Wrenches ("S")

Bemis & Call Hardware & Tool Co. ("B. & C.," Single & Double End Adjustable Nut & Pipe), 983 Main, Springfield, Mass.

Buckeye Mfg. Co., Canton, O.

Billings & Spencer Co. (Drop Forged, Adjustable, Hexagon, etc.), Hartford, Conn.

Canton Drop Forge & Mfg. Co., Canton, O.

Erie Tool Works, Erie, Pa.

Green-Tweed & Co. ("Baxter" Adjustable) 109 Duane, New York

Hall, Chas. E. Co., Buffalo, N. Y.

Handy Tool Co., Bellevue, O.

Keystone Mfg. Co. ("Wescott" Adjustable), Buffalo, N. Y

Oswego Tool Co. (Adjustable Nut & Pipe), Oswego, N. Y.

Page-Storms Drop Forge (All Kinds), Chicopee, Mass.

Robinson, M. W. Co. (Adjustable, Drop Forged), 88 White, New York

S. & I. Co. ("Never Break," Hardened Pressed Steel), Springfield, Mass.

Stearns, E. C. & Co. ("Baxter"), Syracuse, N. Y.

**WHITMAN & BARNES MFG. CO.**, Akron, O. (See adv. index & branch offices, end of book)

## 13296—Wrenches (Screw)

Adjustable Wrench & Specialty Mfg. Co., Harvard, Ill.

Athol Machine Co. ("Rapid Transit"), Athol, Mass.

Beckley-Ralston C., 80 Michigan av, Chicago, Ill.

Bemis & Call Hardware & Tool Co. ("Briggs" & "Merrick" Pattern), Springfield, Mass.

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

**COES WRENCH CO. ("Coes")**, Worcester, Mass. (See adv. index, end of book)

Collins Co., Collinsville, Conn.

Erie Tool Works, Erie, Pa.

Hilt's Wrench Mfg. Co. ("Hilts' " Adjustable Drop Forged), Richford, N. Y.

Hjorth, Wm. & Co., Jamestown, N. Y.

Indianapolis Drop Forging Co. (Agricultural), Indianapolis, Ind.

Irving Mfg. & Tool Co., 157 Chambers, New York

Keystone Drop Forge Works (Steel Set Screw), Chester, Pa.

Lamson & Sessions Co. ("Lamson"), Cleveland, Ohio

Losee Wrench Co. (Forged Steel), Corry, Pa.

Mason, F. C. & Co. ("Mason"), St. Johns, Mich.

Monte Wrench Co. ("Monte" Wood Handle), Shelbyville, Ind.

Mossberg, Frank Co. ("Mossberg"), Attleboro, Mass.

Mossberg Wrench Co., Central Falls, R. I.

Page-Storms Drop Forge Co., Chicopee, Mass.

Peck, Stow & Wilcox Co. ("P. S. & W."), Southington, Conn.

Smith, H. D. & Co. ("Perfect Handle," Drop Forged), Plantsville, Conn.

Uwanta Wrench Co. ("Uwanta"), Meadville, Pa.

Whitaker Mfg. Co. (Agl. & Machinists, etc.), 509 W Monroe, Chicago, Ill.

**WHITMAN & BARNES MFG. CO.** Akron, O. (See adv. index & branch offices, end of book)

## 13297—Wrenches (Socket)

Billings & Spencer Co., Hartford, Conn.

Harris, Samuel & Co., 114 N Clinton, Chicago, Ill.

Indianapolis Drop Forging Co., Indianapolis, Ind.

Keystone Mfg. Co. ("Keystone," "Giant," With Reversible Ratchet), Buffalo, N. Y.

Louden Machinery Co., Fairfield, Pa.

Mossberg, Frank Co., Attleboro, Mass.

Motor Parts Co. ("Auto-cle"), Plainfield, N. J.

Page-Storms Drop Forge Co., Chicopee, Mass.

Rex Wrench Co. ("Rex" T-Socket, for Automobiles & Motor Boats), 184 Summer, Boston, Mass.

Syracuse Wrench Co. ("Champion"), Syracuse, N. Y.

Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.

Winters Bros. Co., Wrentham, Mass.

**WORCESTER PRESSED STEEL CO.** Worcester, Mass. (See adv. index & branch offices, end of book)

## 13298—Wrenches (Spanner)

Billings & Spencer Co. (Drop Forged Adjustable), Hartford, Conn.

Brock Wrench Mfg. Co. ("Brock's" Drop Forged), 18 Dev, New York

Keystone Drop Forge Works (Drop Forged), Chester, Pa.

**LUNKENHEIMER CO. (Adjustable)**, General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Page-Storms Drop Forge Co., Chicopee, Mass.

Rhode Island Tool Co. (Drop Forged), Providence, R. I.

Williams, J. H. & Co. (Drop Forged), 150 Hamilton av., Brooklyn, N. Y.

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Dicke Tool Co., Downers Grove, Ill.
Klein, Mathias & Sons, 562 W Van Buren, Chicago, Ill.
**SMITH & HEMENWAY CO. ("Red Devil," Drop Forged Tie & Splicing), 150 Chambers, New York.** (See adv. index, end of book)

## 13300—Wrenches (Sprocket)

Ayes & Co. ("Champion" Hub), 1812 Ellen, Chicago, Ill.

## 13300a—Wrenches (Stamping)

**GLOBE MACHINE & STAMPING CO., 3868 Hamilton av, Cleveland, O.** (See adv. index, end of book)

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**COES WRENCH CO., Worcester, Mass.** (See adv. index, end of book)

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Nordyke & Marmon Co., Indianapolis, Ind.
Wells, F. E. & Son Co., Greenfield, Mass.

## 13303—Wrenches (Tap & Reamer)

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**ARMSTRONG MFG. CO., 278 Knowlton, Bridgeport, Conn.** (See adv. index & branch offices, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. Co. ("Besly" Tap), 124 N Clinton, Chicago, Ill.
Billings & Spencer Co., Hartford, Conn.
Braunsdorf-Mueller Co. (Tap), Elizabeth, N. J.
Brubaker, W. L. & Bros. (Adjustable), Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co. ("Horsfield"), Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. ("Nichols"), Pawtucket, R. I.
Hart Mfg. Co. ("Duplex" Adjustable Tap), Cleveland, O.
Holroyd & Co. ("Holroyd" Adjustable Tap), Waterford, N. Y.
Keystone Mfg. Co. ("Keystone" or Ratchet Stud Driver), Buffalo, N. Y.
Massachusetts Tool Co., Greenfield, Mass.
**MORSE TWIST DRILL & MACHINE Co. (For Adjustable Reamers & Taps), New Bedford, Mass.** (See adv. index, end of Pawtucket Mfg. Co., Pawtucket, R. I. book)
Polk, A. J. & Son (Adjustable), Millersburg, Pa.
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Sawyer Tool Mfg. Co. (Tap), Fitchburg, Mass.
**SMART, A. J. MFG. CO. ("Bascom" Adjustable Tap), Greenfield, Mass.** (See adv. index, end of book)
**STANDARD TOOL CO., 6900 Central** av, Cleveland, O. (See adv. index & branch offices, end of book)
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Walworth Mfg. Co., Boston, Mass.
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Klein, Mathias & Sons ("No. 63"), 562 W Van Buren, Chicago, Ill.

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Bonney Vise & Tool Co. (Drop Forged), Allentown, Pa.

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Fosston Mfg. Co. ("Fosston"), 473 N Cleveland, St. Paul, Minn.
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Harvey, H. H., 608 Atlantic av, Boston, Mass.
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Keystone Drop Forge Works, Chester, Pa.
Klein-Logan Co., Pittsburg, Pa.
Lovejoy Tool Works, 335 W Ohio, Chicago, Ill.
Page-Storms Drop Forge Co.. Chicopee, Mass.
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Vaughan & Bushnell Mfg. Co. ("V. & B." Drop Forged), 2130 Carrol av, Chicago, Ill.
Verona Tool Works (Straight & T.), Pittsburg, Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.
Western Tool & Forge Co., Brackenridge, Pa.
Williams, J. H. & Co. (Drop Forged), 150 Hamilton av., Brooklyn, N. Y.

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Twin Grip Wrench Co. (Seven Wrenches in One, Including Screw Driver & Alligator Wrench), 1779 B'way, New York

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## 13310—Wrenches (Wagon Skein)

Sandage Steel Skein Co., South Bend, Ind.

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**PEASE, C. F. CO., 167 Adams, Chicago, Ill.** (See adv. index, end of book)

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## 13313—Wringers (Mop)

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Bushnell Novelty Co. ("Bull Dog"), Mansfield, O.
Dana Mfg. Co. ("Dana"), Cincinnati, O.
Eagle Cooperage Works ("Eagle" Wringer & Bucket Combined), Circleville, O
Erie Mop & Wringer Co., Erie, Pa.
Lee Chair Co. ("Reliance"), Oneida, N. Y.
Pierce Wringer Co., Rochester, N. Y.
Sanitary Stamped Wares & Specialties Co. ("One Twist"), 293 134th, New York
Spaulding Mfg. Co. ("Our Leader"), Clinton, Me.
Tucker & Dorsey Mfg. Co. (Mop & Bucket Combined), Indianapolis, Ind.
White Mop Wringer Co. ("White"), Fultonville, N. Y.

## 13314—X-Ray Apparatus

Anderson Norden & Co. ("Nelson"), 427 W Randolph, Chicago, Ill.
Biddle, Jas. G., 1114 Chestnut, Philadelphia, Pa.
Dodd & Struthers, Des Moines, Ia.
Edison Lamp Dep't, Harrison, N. J.
Engeln & Co., Cleveland, O.
Harvard Electric Co., 523 W Van Buren, Chicago, Ill.
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Ritchie, E. S. & Sons, Brookline, Mass.
Scheidel Western X-Ray Coil Co. ("Scheidel"), 547 W Jackson boul, Chicago, Ill.
Victor Electric Co., 55 Market, Chicago, Ill.

## 13314a—X-Ray Fluoroscopes

(See also X-Ray Apparatus)

Jackson, Francis E., Orange, N. J.

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American Mfg. Concern, Jamestown, N. Y.
Bell Novelty Advertising Co., Bellefontaine, O.
Bemis & Call Hardware & Tool Co. (Steel), Springfield, Mass.
Bliss Mfg. Co., Bliss, N. Y.
Bogert & Hopper Co., 162 William, New York
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Chapin-Stephens Co. (Also School & Desk Rulers, etc.), Pine Meadow, Conn.
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## 13317— Yarn (Fodder)

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## 13318— Yarn (Lath)

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Plymouth Cordage Co., North Plymouth, Mass.
Rugg, E. T. & Co., Newark, O.
Tucker & Carter Rope Co. (Tarred Sisal), 76 South, New York

## 13319— Yarn (Mop)

Bibb Mfg. Co., Macon, Ga.
Consolidated Cotton Duck Co., Baltimore, Md.
Eagle Cotton Mills Co., Madison, Ind.
Hooper, Wm. E. & Sons Co., Baltimore, Md.
Massasoit Mfg. Co., Fall River, Mass.
Yocona Cotton Mills, Water Valley, Miss.

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**Bibb** Mfg. Co., Macon, Ga.
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**Schlichter Jute Cordage Co., 20 N. Front, Phila., Pa.**
**Tucker & Carter Rope Co., 76 South, New York**
**Waterbury Co., 69 South, New York**

## 13321– Yokes (Clip)

**Upson** Nut Co., Cleveland, O.

## 13322–Yokes (Pocket Coupler, Etc.)

**Valley** Forging Co., Verona, Pa.

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**Harshaw,** Fuller & Goodwin Co., Cleveland, O.
**Wiarda,** Jno. C. & Co., 259 Greenpoint av, Brooklyn, N. Y.

## 13324– Zinc Chloride

**Butterworth-Judson Co.,** Newark, N. J.
**Cochrane** Chemical Co., Boston, Mass.
**Commercial** Acid Co., St. Louis, Mo.
**General** Chemical Co., 25 Broad, Phila., Pa.
**Grasselli** Chemical Co., Cleveland, O., & 60 Wall, New York
**Klipstein,** A. & Co. (Ammonium), 129 Pearl, New York
**Mallinckrodt** Chemical Works, St. Louis, Mo.
**Penna.** Salt Mfg. Co., 115 Chestnut, Phila., Pa.
**Roessler & Hasslacher Chemical Co., 100 William, New York**
**Sandoval** Zinc Co. (In Fused Granulated & Liquid Form), 410 N Peoria, Chicago, Ill.
**Schell,** Wm. H., 159 Maiden la., New York
**Sholes,** Chas. E. Co., 164 Front, New York

## 13325– Zinc Dust

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**Denver** Fire Clay Co., Denver, Colo.
**Duerst Bros. & Co.,** 2 Stone, New York
**Innis** Speider & Co., 46 Cliff, New York
**Klipstein,** A. & Co., 82 Beaver, New York
**Rau,** Henry M., 130 Pearl, New York
**Roessler & Hasslacher Chemical Co.,** 100 William, New York

## 13326– Zinc Mfrs.

Bartlesville Zinc Co. (Smelters), Bartlesville, Okla.
Bertha Mineral Co., Pulaski, Va.
Chanute Zinc Co., Chanute, Kan.
Cockerill Zinc Co., Nevada, Mo.
Collinsville Zinc Co., Collinsville, Ill.
Edgar Zinc Co., St. Louis, Mo.
Grasselli Chemical Co., The Arcade, Cleveland, O. & 60 Wall, New York
Illinois Zinc Co. (Sheet, etc.), Peru, Ill.
National Zinc Co., 2 Stone, New York. Works: Bartlesville, Okla.
New Jersey Zinc Co., 55 Wall, New York
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Platt Bros. Co. (Cold Rolled), Waterbury, Conn.
Sadtler Lead & Zinc Co., Bethlehem, Pa.
Sandoval Zinc Co., 410 N Peoria, Chicago, Ill.
Tennessee Zinc Co., Mercantile Library bldg, Cincinnati, O.
**United Zinc & Chemical Co.,** Argentine, Kans.

## 13327–Zinc-Nickelized Sheet

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Matthiessen & Hegeler Zinc Co., La Salle, Ill.
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Bryant Zinc Co. (Of All Kinds), 737 W Van Buren, Chicago, Ill.

## 13332– Zinc (White)

**FRENCH, SAM'L. H. & CO. (Dealers** & Grinders), 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Grasselli Chemical Co. ("Grasselli," Rubber Makers' White, etc.), Cleveland, O., & 60 Wall, New York
**LEAVITT, C. W. & CO., 222 B'way,** New York. (See adv. index, end of book)
Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill. Works: Mineral Point, Wis.
**NEVIN, T. H. CO., North Side, Pittsburgh,** Pa. (See adv. index, end of book)
New Jersey Zinc Co., 45 Wall, New York
United States Smelting Co. ("Standard" Zinc Lead, White), Canon City, Colo.

## 13333– Zinc (Battery)

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Bryant Mfg. Co. (All Patterns), 456 W Ontario, Chicago, Ill.
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Grasselli Chemical Co. ("Franklin"), Cleveland, O., & 60 Wall, New York
Matthiessen & Hegeler Zinc Co. ("Leclanche" Battery Bars), La Salle, Ill.
Pacific Metal Works, San Francisco, Cal.
Pearce, Fred'k Co., 20 Rose, New York
Phillips, E. & Sons, South Hanover, Mass.
Prescott, J. B. & Son, Webster, Mass.
Railroad Supply Co., 215 Dearborn, Chicago, Ill.
Slack, Ben. F. Brass Mfg. Co., Denver, Colo.
**STRONG, CARLISLE & HAMMOND** Co., 336 Frankfort av, N W, Cleveland, O. (See adv. index ,end of book)
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Cleveland, O.—Citizens bldg.
Dallas, Tex.—Builders' Ex.
Des Moines, Iowa—519 Utica bldg.
Duluth, Minn.—106 W. Michigan.
Indianapolis, Ind.—7 E. Market.
Kansas City, Mo.—N. Y. Life bldg.
Los Angeles, Cal.—1701 N Main.
Milwaukee, Wis.—1300 Stroh bldg.
Minneapolis, Minn.—415 Kasta bldg.
New Orleans, La.—Hennen bldg.
New York—507 W. B'way.
Philadelphia, Pa.—411 Walnut.
Pittsburg, Pa.—1222 Fulton bldg.
Rochester, N. Y.—38 Exchange.
St. Paul, Minn.—Ryan bldg.
San Francisco, Cal.—151 Tebama.


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**AMERICAN MACHINE CO.....388**
Louisville, Ky.
BRANCH OFFICES:
Birmingham, Ala.—Richards-Ingalls Iron Wors.
Clarksville, Tenn.—W. M. Case.
Dallas, Tex.—J. Peyton Hunter.
Knoxville, Tenn.—Henry Bielfeldt.
Little Rock, Ark.—A. S. Gooch.
Memphis, Tenn.—Memphis Electric Co.
Nashville, Tenn.—John Bouchard & Sons Co.
New Orleans, La.—American Elevator & Electric Co.
Oklahoma City, Okla.—Frank Long.
St. Louis, Mo.—American Electric Machine & Elevator Co.

**AMERICAN MASON SAFETY TREAD CO..1197**
702 Old South bldg, Boston, Mass.
FACTORY:
Lowell, Mass.
BRANCH OFFICES:
Chicago, Ill.—180 N Dearborn.
Kansas City, Mo.—309 Junction bldg.
New York—50 Church.
Philadelphia, Pa.—728 Stephen Girard bldg.
St. Louis, Mo.—737 Century bldg.
Washington, D. C.—525 Bond bldg.

**AMERICAN PLATINUM WORKS.....975**
Chestnut st & N. J. R. R. av, Newark, N. J.
New York Office—Chas. Engelhard, 30 Church.

**AMERICAN RAILWAY SUPPLY CO.....55**
26 Park pl, New York.

**AMERICAN REFRACTORIES CO.....125**
125 Clark, Chicago, Ill.
FOREIGN OFFICE:
Radenthein, Austria—Austro-American Magnesite Co.

**AMERICAN REVOLVING DOOR CO.....364**
2512 Monroe, Chicago, Ill.

**AMERICAN ROLLING MILL CO.....636**
Middletown, O.
WORKS:
Middletown, O.
Zanesville, O.
BRANCH OFFICE:
Pittsburg, Pa.—Oliver bldg.

**AMERICAN SPIRAL PIPE WORKS..487 & 964**
W. 14th & 48th av, Chicago, Ill.
BRANCH OFFICE:
New York—50 Church.

**AMERICAN SPIRAL SPRING & MFG. CO..1192**
56th & A. V. R. R., Pittsburg, Pa.

**AMERICAN STEAM PUMP CO.....1014**
Battle Creek, Mich.

**AMERICAN STEEL & WIRE CO..1379 & 1386**
Commercial Nat'l Bank bldg, Chicago, Ill.
SALES OFFICES:
Boston, Mass.—120 Franklin.
Cincinnati, O.—Union Trust bldg.
Cleveland, O.—Western Reserve bldg.
Denver, Colo.—First Nat'l Bank bldg.
Detroit, Mich.—Ford bldg.
Los Angeles, Cal.—Jackson & Central avs.
Minneapolis, Minn.—Pioneer Press bldg.
New York—30 Church.
Pittsburg, Pa.—Frick bldg.
Portland, Ore.—9th & Irving.
St. Louis, Mo.—Third Nat'l Bank bldg.
St. Paul, Minn.—Pioneer Press bldg.
Salt Lake City, Utah—736 S. 3d. West.
San Francisco, Cal.—16th & Folsom.
Seattle, Wash.—4th av S. & Connecticut.
Worcester, Mass.—94 Grove.
FOREIGN OFFICES:
London, Eng.—36 New Broad.
Montreal, Que., Canada—Bank of Ottawa bldg.
EXPORT REPRESENTATIVE:
New York—United States Steel Products Co., 30 Church.

**AMERICAN TAP & DIE CO.....1265 & 1267**
Greenfield, Mass.

**AMERICAN 3-WAY PRISM CO....538 & 1345**
3633 Ashland av, Chicago, Ill.
BRANCH OFFICES:
New York—94 Wooster.
Philadelphia, Pa.—134 N. 10th.
Representatives in all large cities.

**AMERICAN VANADIUM CO.....470**
Frick bldg, Pittsburg, Pa.

**AMERICAN VULCANIZED FIBRE CO.....471**
Wilmington, Del.

**AMERICAN WELL WORKS.....271**
Aurora, Ill.
AGENCIES' OFFICES:
Chicago, Ill.—1st Nat'l Bank bldg.
Dallas, Tex.
Denver, Colo.
Joplin, Mo.

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Los Angeles, Cal.
Memphis, Tenn.
New York, N. Y.
Philadelphia, Pa
Pittsburg, Pa.
St. Louis, Mo.
St. Paul, Minn.
Salt Lake City, Utah.
San Francisco, Cal.
Seattle, Wash.
FOREIGN AGENCY:
Montreal, Que.

**AMES, B. C. & CO.....524 & 665**
Waltham, Mass.

**AMSLER, WALTER O.....514**
Wabash bldg, Pittsburg, Pa.

**ANCHOR POST IRON WORKS.....634**
19 Cortlandt, New York.

**ANDERSON FORGE & MACHINE CO.....493**
Fairview, Detroit, Mich.

**ARCADE MFG. CO.....748**
Freeport, Ill.

**ARCHER IRON WORKS.....61, 62 & 1365**
34th pl & Western av, Chicago, Ill.

**ARCHITECTURAL DECORATING CO.....350**
1600-1606 S Jefferson, Chicago, Ill.
Seattle, Wash.—358 W Nickerson.

**ARCHITECTURAL IRON & WIRE WORKS.632**
Wheeling, W. Va.

**ARGUTO OILLESS BEARING CO.....67**
Wayne Junction, Philadelphia, Pa.

**ARMSTRONG MFG. CO..345, 754, 1221 & 1350**
278 Knowlton, Bridgeport, Conn.
BRANCH OFFICES:
Chicago, Ill.—175 N. Jefferson.
New York—248 Canal.

**ARROW CAN CO.....195**
Cor. Warren & Church, New York.
FOREIGN OFFICES:
Montreal, Que., Can.—Thos. Davidson Mfg. Co., Ltd.
Lye, Stourbridge, Eng.—Hill & Boaler.

**ART BRASS & WIRE WORKS.....622**
Forest av & Ellery, Detroit, Mich.

**ATLANTIC TERRA COTTA CO.....1272**
1170 B'way, New York.
BRANCH OFFICES:
Atlanta, Ga.—W. C. Hall, Jr.
Boston, Mass.—F. E. Coombs.
Buffalo, N. Y.—John H. Black Co.
Dallas, Tex.—F. E. Dukes.
Davenport, Ia.—Lumsden & Meier.
Denver, Colo.—B-K Brick Co.
Duluth, Minn.—Thompson & Stewart.
Indianapolis, Ind.—General Cons. Supply Co.
Kansas City, Mo.—The Fireproof Bldg. Material Co.
Los Angeles, Cal.—Los Angeles Pressed Brick Co.
Minneapolis, Minn.—Union Railway Storage Co.
New Orleans, La.—J. Hamilton Jaffray.
Norfolk, Va.—G. S. Freibus.
Oklahoma City, Okla.—O. V. Hughes.
Omaha, Nebr.—Sunderland Bros. Co.
Philadelphia, Pa.—C. T. Meyers.
Pittsburg, Pa.—F. G. Evatt.
Portland, Ore.—Timms, Cress & Co.
Richmond, Va.—Wm. H. Campbell.
Seattle, Wash.—Rodgers & Kohler Co., Inc.
Topeka, Kans.—Lumbermen's Supply & Material Co.
Washington, D. C.—W. A. Mills.
Wichita, Kans.—Lumbermen's Supply Co.
FOREIGN OFFICES:
Montreal, Que., Can.—David McGill.
San Juan, P. R.—Geo. H. Kimball.
Toronto, Ont., Can.—J. R. S. Scott.
Winnipeg, Man., Can.—Waite-Fullerton Co.
FACTORIES:
Perth Amboy, N. J.
Rocky Hill, N. J.
Tottenville, S. I., N. Y.

**ATLAS CAR & MFG. CO.....207**
1289 Marquette rd, N. E., Cleveland, O.

## B

**BADGER, E. B. & SONS CO.**
**2, 93, 313, 643, 646, 1177, 1241 & 1374**
75 Pitts, Boston, Mass.

**BADGER FIRE EXTINGUISHER CO.....481**
32 Portland, Boston, Mass.
BRANCH OFFICES:
Atlanta, Ga.—13 S. Pearl.
New York—123 William.
San Francisco, Cal.—507 Montgomery.

**BALTIMORE COOPERAGE CO., THE.....1263**
Cor. Hanover & Creek, Baltimore, Md.

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**BARCO BRASS & JOINT CO.....643**
226-230 N Jefferson, Chicago, Ill.

**BARNES, WALLACE CO.....1192**
Bristol, Conn.

**BARTLETT, C. O. & SNOW CO.....308**
French st, Cleveland, O.
BRANCH OFFICES:
Chicago, Ill.
New York—50 Church.
Philadelphia, Pa.—217 Walnut.

**BATTERSON & EISELE.....856**
Edgewater, N. J.
BRANCH OFFICE:
New York—Times bldg, 42d

**BAY CITY FORGE CO.....494**
Erie, Pa.

**BAY STATE STAMPING CO.....915**
380 Chandler, Worcester, Mass.

**BEACH-RUSS CO. .....1011**
55-59 Green, Brooklyn, N. Y.

**BECK, CHAS. CO.....751**
607 Chestnut, Philadelphia, Pa.

**BERGER MFG. CO.....229, 637, 664 & 1345**
Canton, O.
BRANCH OFFICES:
Atlanta, Ga.—Rhodes bldg.
Boston, Mass.—286 Devonshire.
Minneapolis, Minn.—307 5th, South.
New York—S. E. cor. 22d & 11th av.
Philadelphia, Pa.—1034 Washington av.
St. Louis, Mo.—16 S 10th.
San Francisco, Cal.—1120 Mission.

**BERNZ, OTTO .....506 & 1306**
21 Ashland av, Newark, N. J.

**BETTCHER MFG. CO.....1199 & 1356**
Clark av, at C. C. C. & St. L. Ry., S. W.
Cleveland, O.

**BICKFORD & FRANCIS BELTING CO.....74**
35 Pearl, Buffalo, N. Y.

**BIGNALL & KEELER MFG. CO.....755**
Edwardsville, Ill.

**BIRDSBORO STEEL FOUNDRY & MACHINE CO. .....714**
Birdsboro, Pa.

**BLAKE SPECIALTY CO.....488**
2412 3rd av, Rock Island, Ill.

**BLAKE & KNOWLES STEAM PUMP WKS.584**
B'way & Cedar, New York.
WORKS:
East Cambridge, Mass.
BRANCH OFFICES:
Atlanta, Ga.—Equitable bldg.
Boston, Mass.—200 Devonshire.
Buffalo, N. Y.—898 Ellicott sq.
Chicago, Ill.—820 Old Colony bldg.
Cincinnati, O.—211 West 4th.
Cleveland, O.—New England bldg.
Detroit, Mich.—Majestic bldg.
El Paso, Tex.—520 San Francisco.
Houston, Tex.—Brazos Hotel bldg.
Kansas City, Mo.—925 Scarritt bldg.
Los Angeles, Cal.—220 E 2d.
Louisville, Ky.—R 26, Board of Trade bldg.
New Orleans, La.—533 Baronne.
Philadelphia, Pa.—North American bldg.
Pittsburg, Pa.—407 Oliver bldg.
St. Louis, Mo.—605 Chemical bldg.
Salt Lake City, Utah—128 W. 2d, S.
San Francisco, Cal.—148 1st.
Seattle, Wash.—524 1st av, S.

**BLANCHARD BROS., INC.....956**
308 Main, Davenport, Ia.

**BLISS, E. W. CO.....1000 & 1001**
19 Adams, Brooklyn, N. Y.
FOREIGN OFFICES:
London, E. C., Eng.—114 Queen Victoria.
St. Ouen (Paris), France—100 Boulevard Victor Hugo.

**BOCKMANN & SHEPARD.....857**
1265-9 B'way, New York.

**BOLLES, J. E. IRON & WIRE WORKS....626**
4th av & Porter, Detroit, Mich.

**BOMMER BROS. .....595**
257 Classon av, Brooklyn, N. Y.

**BOOMER & BOSCHERT PRESS CO.....1000**
379 W Water, Syracuse, N. Y.

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**BOSTON BELTING CO.....75, 609 & 927**
256-260 Devonshire, Boston, Mass.
BRANCH OFFICES:
Buffalo, N. Y.—90 Pearl.
Chicago, Ill.—169 W Lake.
New York—100 Reade.
Portland, Ore.—105 First.
San Francisco, Cal.—55 First.
AGENCIES:
Allentown, Pa.—Wm. H. Taylor & Co.
Atlanta, Ga.—Southern Belting Co., 40-46 S Forsyth.
Baltimore, Md.—Carey Machinery & Supply Co., 119-121 E Lombard.
Cincinnati, O.—Queen City Supply Co., 201-205 W Pearl.
Cleveland, O.—W. Bingham Co., 1433-1455 9th, N. W.
Hazleton, Pa.—Hazleton Mach'y & Supply Co., W Broad & Vine.
Indianapolis, Ind.—Taylor Belting Co., 247 S Meridian.
Kansas City, Mo.—English Tool & Supply Co., 410-414 W 5th.
Louisville, Ky.—W. & A. C. Semple (Inc.), 311 W Main.
Memphis, Tenn.—Lee Bros., 4 & 8 S Front.
Nashville, Tenn.—Keith, Simmons & Co., 316-318 Union.
New Orleans, La.—Southern Belting Co. (of New Orleans), 718-720 Union.
Philadelphia, Pa.—Mulconroy Co., Inc., 722 Arch.
Pittsburg, Pa.—J. & H. Phillips, 627 Liberty av.
St. Louis, Mo.—Handlan-Buck Mfg. Co., 210-214 N 3d.
St. Paul, Minn.—Crane & Ordway Co., 5th & Rosabel.
Scranton, Pa.—Scranton Supply & Machinery Co., 131 Wyoming.
Toledo, O.—Bostwick-Braun Co.

**BOSTON GEAR WORKS.....529**
Norfolk Downs, Mass.

**BOSTON-OREGON MAST CO.....351**
131 Coleridge, East Boston, Mass.

**BOSTWICK STEEL LATH CO.....663**
480 Griswold, Niles, O.

**BRAUN, J. G.....624**
615 S Paulina, Chicago, Ill.
BRANCH OFFICE:
New York—537 W 35th.

**BRISTOL CO. .....73 & 522**
Waterbury, Conn.
BRANCH OFFICES:
Chicago, Ill.—753 Monadnock blk.
New York—114 Liberty.
Pittsburg, Pa.—1670 Frick bldg. Annex.

**BRODERICK & BASCOM ROPE CO.....1387**
809 N Main, St. Louis, Mo.
BRANCH OFFICE:
New York—76 Warren.

**BROWN, A. & F. CO.....325, 529, 757 & 891**
172 Fulton, New York.
WORKS:
Elizabethport, N. J.

**BROWN BROS. MFG. CO.....624**
22d & Campbell av, Chicago, Ill.
BRANCH OFFICES:
Kansas City, Mo.—Long bldg.
New York—1123 B'way.
Pittsburg, Pa.—House bldg.
Washington, D. C.—Colorado bldg.

**BROWN HOISTING MACHINERY CO.....329**
4403 St. Clair, N. E., Cleveland, O.
BRANCH OFFICES:
New York—50 Church.
Pittsburg, Pa.—Frick bldg.

**BUCKEYE ENGINE CO.....456 & 457**
Salem, Ohio.
BRANCH OFFICES:
Baltimore, Md.—100-2 Fayette.
Birmingham, Ala.—Brown-Marx bldg.
Chicago, Ill.—1249 Marquette bldg.
Cincinnati, O.—111 Ingalls bldg.
Cleveland, O.—1116 New England bldg.
Denver, Colo.—1710 Glenarm.
New York—39-41 Cortlandt.
Philadelphia, Pa.—1021 Stephen Girard bldg.
Pittsburg, Pa.—1601 Arrott bldg.
St. Paul, Minn.—4th & Wacouta.

**BUFFALO FOUNDRY & MACHINE CO.....379**
65 Winchester av, Buffalo, N. Y.

**BUFFUM TOOL CO.....1302 & 1303**
Louisiana, Mo.
BRANCH OFFICES:
Chicago, Ill.—180 N Dearborn.
New York—32 Warren.
San Francisco, Cal.—693 Mission.

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**BURROWES, E. T. CO.....79 & 1147**
70 Free, Portland, Me.
BRANCH OFFICES:
Atlanta, Ga.—507 Grant bldg.
Birmingham, Ala.—1720 1st av.
Boston, Mass.—434 Exchange bldg.
Buffalo, N. Y.—504 D. S. Morgan bldg.
Charlotte, N. C.—426 Elizabeth av.
Chicago, Ill.—335 Marquette bldg.
Cleveland, O.—348 Engineers' bldg.
Colorado Springs, Colo.—13 S. Cascade av.
Dayton, O.—Lock Box 478.
Des Moines, Ia.—209 News Arcade.
Detroit, Mich.—1016 Chamber of Commerce.
Indianapolis, Ind.—320 Indiana Pythian bldg.
Jacksonville, Fla.—208 Bisbee bldg.
Kansas City, Mo.—309 Commerce bldg.
Memphis, Tenn.—Builders' Exchange.
Mobile, Ala.—P. O. Box 838.
New Orleans, La.—1504 Milan.
New York—225 5th av.
Oklahoma City, Okla.—714 Majestic bldg.
Philadelphia, Pa.—708 Real Estate Trust bldg.
Pittsburg, Pa.—1405 Arrott bldg.
Portland, Ore.—326 Failing bldg.
Rochester, N. Y.—603 Chamber of Commerce.
St. Louis, Mo.—725 Victoria bldg.
San Antonio, Tex.—607 Garden.
Scranton, Pa.—825 Electric.
Seattle, Wash.—403 White bldg.
Spokane, Wash.—309 Realty bldg.
Washington, D. C.—414 Colorado bldg.
FOREIGN OFFICES:
Montreal, Que., Can.—P. O. Box 1175.
Toronto, Ont., Can.—17-21 Temperance.
Winnipeg, Man., Can.—The J. H. Ashdown Hdw. Co.

**BURTON, W. J. CO.....229 & 1374**
161 W Congress, Detroit, Mich.

**BUSCH-SULZER BROS. DIESEL ENGINE CO453**
General Offices: St. Louis, Mo.
BRANCH OFFICES:
New York—11 B'way.

## C

**CABARET, PAUL E. & CO.....136**
120 11th av, New York.

**CABOT, SAMUEL .....1166**
141 Milk, Boston, Mass.
BRANCH OFFICES:
Chicago, Ill.—350 Dearborn av.
New York—1133 B'way.
AGENTS:
Atlanta, Ga.—Sciple Sons.
Baltimore, Md.—National Building Supply Co.
Buffalo, N. Y.—M. A. Reeb.
Cincinnati, O.—Lawrence Mendenhall Co.
Cleveland, O.—Cleveland Builders' Supply Co.
Columbus, O.—Columbus Bldrs. Supply Co.
Dallas, Tex.—Sumner & McCreight.
Detroit, Mich.—C. H. Little Co.
Denver, Colo.—Colorado Brick Supply Co.
Grand Rapids, Mich.—W. P. Williams.
Indianapolis, Ind.—Builders' Supply Corp'n.
Kansas City, Mo.—Day K. Smith & Co.
Los Angeles, Cal.—P. H. Mathews Paint House.
Louisville, Ky.—National Roofing & Supply Co.
Minneapolis, Minn.—Johnson, Jackson & Corning.
New Orleans, La.—Zimmermann Building Specialties Co.
Oklahoma City, Okla.—S. H. Hanson Builders' Supply Co.
Philadelphia, Pa.—S. H. French & Co.
Pittsburg, Pa.—Houston Bros. Co.
Portland, Ore.—Timms, Cress & Co.
St. Louis, Mo.—Whitelaw Bros.
St. Paul, Minn.—Johnson, Jackson & Corning.
San Antonio, Tex.—West End Lumber Co.
San Francisco, Cal.—Waterhouse & Price Co.
Seattle, Wash.—S. W. R. Dally.
Spokane, Wash.—S. W. R. Dally
Washington, D C.—J. H. Corning.
FOREIGN AGENTS:
Colgary, Can.—Canadian Equipment Supply Co.
Montreal, Can.—Seymour & Co.
Toronto, Ont., Can.—Andrew Muirhead Co.
Vancouver, B. C.—Henry Darling.

**CALDWELL, H. W. & SON CO.....306**
17th & Western av, Chicago, Ill.
BRANCH OFFICES:
New York—Hudson Terminal bldg, 50 Church.
SELLING AGENCIES:
Dallas, Tex.—Eubank Machinery Co., 179 Elm.
New Orleans, La.—Woodward, Wight & Co., Ltd.
St. Louis, Mo.—J. F. & H. T. McKinlay, Security bldg.
San Francisco, Cal.—Meese & Gottfried Co., 19th & Harrison.

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**CALDWELL, W. E. CO. 1254, 1255, 1264 & 1265**
Brook & D, Louisville, Ky.

**CAMERON, A. S. STEAM PUMP WORKS..1029**
433 E. 23rd, New York.
BRANCH OFFICES:
Baker City, Ore.—Basche-Sage Hardware Co.
Birmingham, Ala.—Crane Co.
Boise, Idaho—Carlson-Lusk Hardware Co.
Boston, Mass.—Ingersoll-Sergeant Drill Co., 65 Oliver.
Bradford, Pa.—Oil Well Supply Co.
Butte, Mont.—Anaconda Copper Mining Co.
Chattanooga, Tenn.—James Supply & Hardware Co.
Cleveland, O.—Ingersoll-Rand Co., Williamson bldg.
Denver, Colo.—Hendrie & Bolthoff Mfg. & Supply Co.
Des Moines, Ia.—Globe Machinery & Supply Co., 205 W Court.
Duluth, Minn.—Marshall-Wells Hardware Co.
El Paso, Tex.—Ingersoll-Rand Co. of Texas.
Huntington, W. Va.—Miller Supply Co., 742 3rd av.
Knoxville, Tenn.—C. M. McClung & Co.
Los Angeles, Cal.—Smith-Booth-Usher Co., 228 Central av.
Memphis, Tenn.—Chicksaw Iron Works, 2d & Winchester.
Milwaukee, Wis.—Rundle-Spence Mfg. Co., 67 2d.
Nogales, Ariz.—Roy-Titcomb, Inc.
Oil City, Pa.—Oil Well Supply Co.
Ottumwa, Ia.—Ottumwa Iron Works, Main & Wapello.
Philadelphia, Pa.—H. L. Bowman & Co., 31 S 4th.
Pittsburg, Pa.—Pittsburg Valve, Foundry & Construction Co.
Portland, Ore.—Marshall-Wells Hardware Co.
Prescott, Ariz.—Arizona Mine Supply Co.
St. Louis, Mo.—Kupferle Bros. Mfg. Co., 600 N 2d.
Salt Lake City, Utah—Galigher Machinery Co.
San Francisco, Cal.—Union Iron Works Co.
Seattle, Wash.—Caldwell Bros. Co., 115 Jackson.
Tacoma, Wash.—Caldwell Bros. Co., 1748 Pacific.
Wallace, Idaho.—Coeur d'Alene Hardware Co.
FOREIGN OFFICES:
Auckland, New Zealand—John Burns & Co., Customs st, E.
Christiania, Norway—Lorentzen & Wettre.
Cobalt, Ont.—Canadian-Rand Co.
Elk Lake, Ont.—Canadian-Rand Co.
Halifax, N. S.—Canadian-Rand Co., 116 Hollis.
Johannesburg, S. Africa—Ingersoll-Rand Co.
London, E. C., Eng.—Ingersoll-Rand Co., 165 Queen Victoria..
Melbourne, Australia—W. & J. Lempriere, 506 Little Collins.
Mexico City, Mex.—Victor M. Braschi.
Monterey, Mex.—C. Holck & Co.
Montreal, Que. — Canadian-Rand Co., Commercial Union blk.
Paris, France—Compagnie Ingersoll-Rand, 33 Rue Reaumur.
Perth, W. Australia—Frank R. Perrot.
Ponce, Porto Rico—R. S. Graham.
Rossland, B. C.—Canadian-Rand Co.
Rotterdam, Holland—R. S. Stokvis & Zonen, Leuvehaven, O. Z., 78
Shanghai, China—Arnhold, Karberg & Co.
Stockholm, Sweden—Eftr. Tornborg & Lundberghs, 10 Skeppsbron.
Sydney, Australia—Arthur Leplastrier & Co., Circular Quay E.
Torreon Coah, Mex.—Dodson Mfg. Co.
Toronto, Can.—Canadian-Rand Co., Traders' Bank bldg.
Valparaiso, Chile—Beaver-Scott Eng. Co., Casilla 1198.
Vancouver, B. C.—Canadian-Rand Co., 43 Alexander.
Vienna, Austria—Persicaner & Co., 1 Libenbergasse 7.
Winnipeg, Man. — Canadian-Rand Co., 824 Union Bank bldg.

**CAMERON MACHINE CO.....1276**
61 Poplar, Brooklyn, N. Y.

**CANTON BOILER & ENGINEERING CO.**
Canton, O. 109, 582 & 655

**CANTON FOUNDRY & MACHINE CO.....332**
Canton, O.

**CANTON MFG. CO.....475 & 1346**
Canton, O.

**CARLIN'S, THOS. SONS CO.....451**
Oliver bldg, Pittsburg, Pa.

**CARPENTER, F. E. CO.....634**
253 B'way, New York.

**CARPENTER, GEO. B. & CO.....1114**
202 S Water, Chicago, Ill.

**CARPENTER-TEW GEAR CO.....528**
Bush Terminal, 58 35th, Brooklyn, N. Y.

**CARTER, BLACK & AYERS, INC.....128**
1182 B'way, New York.

**CARY MFG. CO.....108 & 873**
29 Roosevelt, New York.

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**CASSIER'S MAGAZINE. See Front Adv. Pages**
12 W 31st, New York.

**CENTRAL IRON WORKS.....893**
Quincy, Ill.

**CHADELOID CHEMICAL CO.....933**
100 William, New York.

**CHAIN BELT CO.....276 & 308**
Milwaukee, Wis.
AGENTS FOR CONCRETE MIXERS ONLY:
Baltimore, Md.—Carey Machinery & Supply Co., 119 E. Lombard.
Boston, Mass.—Underwood Machinery Co., 177 High.
Buffalo, N. Y.—Mey Chain Belting Engr. Co., 77 Washington.
Chattanooga, Tenn.—James Supply & Hardware Co.
Chicago, Ill.—W. B. Leuer, 1156 Monadnock blk.
Columbus, Ohio—A. M. Anderson.
Detroit, Mich.—Palmer Bros. Co.
Kansas City, Mo.—Jas. P. Sprague, N. Y. Life bldg.
Minneapolis, Minn.—Power Equipm. Co., 200 3d av, N.
Montgomery, Ala.—Alabama Machinery & Supply Co., 110 Coosa.
New York—Henry J. McCoy Co., 65 Dey.
Philadelphia, Pa.—Standard Supply & Equipm. Co., 1710 Market.
Pittsburg, Pa.—Standard Supply & Equipm. Co., 1151 Liberty.
Portland, Ore.—Industrial Engineering Co., 71 5th.
Richmond, Va.—Southern Railway & Supply Co., 1323 E. Main.
St. Paul, Minn.—R. B. Whitacre & Co., 205 S Robert.
St. Louis, Mo.—Frank A Fraser, 116 N Main.
Seattle, Wash.—Perine Machinery Co.
Spokane, Wash.—Washington Machinery & Supply Co., N. W. cor. Monroe & N. P. Track.
FOREIGN OFFICES:
Montreal, Can.—Canada Machinery Agency.
Winnipeg, Man., Can.—Dominion Equip. & Supply Co.
Vancouver, Can.—Robert Hamilton & Co.

**CHAMPION IRON CO.....1217**
Kenton, O.

**"CHAMPION" METAL WEATHER STRIP & PARTING BEAD CO.....1363**
179 Summer, Boston, Mass.
BRANCH OFFICES:
Albany, N. Y.—C. M. Ward, 76 Jay.
Buffalo, N. Y.—Hyde & Mueller, 72 Carlton.
Chicago, Ill.—United Ornamental Iron Works, 703 Security bldg.
Cleveland, O.—H. G. Freiberger, Engineers bldg.
Dallas, Tex.—J. M. Carpenter, Scollard bldg.
New York—Pitt Balance Door Co., 136 W 24th.
Portland, Me.—Roscoe S. Davis, 121 Exchange.
Washington, D. C.—Geo. T. Kolb, 713 14th, N. W.

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Johannesburg, So. Africa — Consolidated Pneumatic Tool Co., 25-27 London House.
Kioto, Japan—F. W. Horne.
Kobe, Japan—F. W. Horne.
Belgium, Great Britain, Italy, Portugal, Spain — London—Consolidated Pneumatic Tool Co., Ltd., 9 Bridge, Westminster, S. W.
Manila, P. I.—Frank L. Strong, 34-40 Calle Echague.
Mexico City, Mex.—General Supply Co., Calle del Angel No. 2.
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The Holden Co., Ltd.
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Cleveland, O.—New England bldg.
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Houston, Tex.—Brazos Hotel bldg.
Kansas City, Mo.—925 Scarritt bldg.
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New Orleans, La.—533 Baronne.
Philadelphia, Pa.—North American bldg.
Pittsburg, Pa.—407 Oliver bldg.
St. Louis, Mo.—605 Chemical bldg.
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Mobile, Ala.—Turner Supply Co., N. W. cor. St. Louis & Commerce.
Montgomery, Ala.—Ala. Machy. & Supply Co., 116 Coosa.
Nashville, Tenn.—Keith, Simmons & Co.
New Orleans, La.—J. H. Menge & Sons, Ltd.
Norfolk, Va.—S. M. Price Mach. Co.
Henry Walke Co.
Philadelphia, Pa.—P. C. McKinley, 484 The Bourse.
Portland, Ore.—Portland Mach. Co.
Richmond, Va.—Smith-Courtney Co.
Salt Lake City, Utah—R. J. Glendinning & Co., P. O. Box 1078.
San Antonio, Tex.—San Antonio Mach. & Supply Co.
San Francisco, Cal.—Henshaw, Bulkley & Co., 17-21 Fremont.
Savannah, Ga.—Georgia Supply Co., 26 Bay, W.
Scranton, Pa.—J. B. Noros, 225 Miller bldg.
Seattle, Wash.—E. P. Jamison & Co., 617 Western av.
Sherman, Tex.—Hardwick-Etter Hardware Co.

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Toledo, O.—Haughton Elevator & Machine Co.
Waco, Tex.—Waco Machinery & Supply Co.
Washington, N. C.—McKeel-Richardson Hardware Co., 153 Main.
Wilkes-Barre, Pa.—R. B. Vaughn, 2 So. River
Wilmington, N. C.—Hyman Supply Co.

FOREIGN OFFICES:
Antwerp, Belgium—Edmond Isbecque & Co., 33 Rue des Peignes.
Auckland, N. Z.—John Chambers & Son.
Buenos Ayres, Arg. Rep.—Agar Cross & Co.
Christchurch, N. Z.—John Chambers & Son.
Christiania, Norway—Lorentzen & Wettre.
Copenhagen, Denmark — Herman Bentzen, Tordenskjoldsgade 23.
Demerara, B. G., So. America—Sandbach, Parker & Co.
Dunedin, N. Z.—John Chambers & Son.
Havana, Cuba—De Pool, Vazues & Co.
Honolulu, H. I.—Catton, Neill & Co.
Johannesburg, S. Africa—Arthur Koppel Co., Howard bldg, Main st.
Leura, St. Andrews, N. S. W., Australia — John Chambers & Son.
Mexico, D. F. Mexico—General Supply Co., Apartado 1433.
Montreal, Can.—Jeffrey Mfg. Co., Cote & Lagauchetiere.
Perth, W. Australia—F. R. Perrot, 883 Hay.
Rio de Janeiro, Brazil—Borlido Moniz & Co.
Rome, Italy—Ditta N. Faes, Piazza Delle-Terme 71-72.
San Juan, P. R.—McMurtrie, Guiler & Co.
Soerabaja, Java, D. E. I.—Broeckman & Co.
Sydney, N. S. W., A.—Gibson, Battle & Co., 535 Kent
Toronto, Can.—J. A. W. Archer, 174 King, E.
Valparaiso, Chili—J R. Beaver Engr. Co.
Vancouver, B. C., Can.—Frank Darling & Co., 1142 Homer.
Vienna, Austria — Friedrich Schember, Widerhofergasse 6.
Wellington, N. Z.—John Chambers & Son.
Yokohama, Japan—Andrews & George.

**JENNINGS PUMP & DREDGE CO..731 & 1017**
305 N Michigan av, Chicago, Ill.

**JESSOP, WM. & SONS, INC.....1211**
91 John, New York.

**JOHNS, H. W.-MANVILLE CO.....43**
100 William, New York.

BRANCH OFFICES:
Albany, N. Y.—463 B'way.
Atlanta, Ga.—919 Empire bldg.
Baltimore, Md.—30 Light .
Birmingham, Ala.—1220 Empire bldg.
Boston, Mass.—55 High.
Buffalo, N. Y.—214 Main.
Chicago, Ill.—322 N Michigan av.
Cincinnati, O.—505 Provident Bank bldg.
Cleveland, O.—813 Superior av, N. W.
Dallas, Tex.—1104 Commerce.
Detroit, Mich.—72 Jefferson av.
Duluth, Minn.—618 Lyceum bldg.
Houghton, Mich.—96 Sheldon.
Indianapolis, Ind.—30 S. Penna.
Kansas City, Mo.—1416 Main.
Los Angeles, Cal.—222 N. Los Angeles.
Louisville, Ky.—Lincoln Savings Bank bldg.
Memphis, Tenn.—Cor. Walnut & Linden.
Milwaukee, Wis.—201 Clybourn.
Minneapolis, Minn.—251 3d av, S.
Newark, N. J.—45 Clinton.
New Orleans, La.—Cor. Magazine & Gravier.
Oklahoma City, Okla.—10 Zeigler bldg.
Omaha, Neb.—1003 Farnum.
Philadelphia, Pa.—23 N. 2d.
Pittsburg, Pa.—951 Liberty av.
Portland, Ore.—22 Front.
Richmond, Va.—703 American Nat'l Bank bldg.
Rochester, N. Y.—725 Chamber of Commerce.
St. Louis, Mo.—501 N. 3rd.
St. Paul, Minn.—629 Ryan Annex.
San Francisco, Cal.—159 New Montgomery.
Seattle, Wash.—1020 1st av, S.
Syracuse, N. Y.—608 University blk.
Wilkes-Barre, Pa.—901 Coal Ex. bldg.

FOREIGN OFFICES:
London, E. C., Eng.—Turners & Manville, Ltd., Hopetoun House, 5 Lloyds av.
Mexico City, Mex.—5 de Mayo No. 6.
Montreal, Que.—450 St. James.
Toronto, Ont.—87 Wellington, W.
Vancouver, B. C.—511 Winch bldg.
Winnipeg, Man.—320 Main.

**JOHNSON LUMBER CO.....711**
Milwaukee, Wis.

**JONES, TREVOR F. & CO.....876 & 1176**
374 W B'way, New York.

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**KALAMAZOO LOOSE LEAF BINDER CO..686**
Kalamazoo, Mich.

**KEMP, C. M. CO.....738**
401 E Oliver, Baltimore, Md.

**KENEHAN STEEL BELT FASTENER CO., THE .....72**
1252 W 3d, Cleveland, O.
BRANCH OFFICE:
Chicago, Ill.—H. J. Stow, 56 5th av.

**KENNICOTT CO. 211, 244, 656, 1201, 1261, 1264 & 1362**
Sales Office: Corn Exchange Bank bldg. Chicago, Ill.
BRANCH OFFICE:
New York—30 Church.
FOREIGN OFFICE:
Paris, France.

**KERITE INSULATED WIRE & CABLE CO.1381**
30 Church, New York.
BRANCH OFFICE:
Chicago, Ill.—Railway Exchange bldg.

**KEWANEE BOILER CO.....93**
Kewanee, Ill.
BRANCH OFFICES:
Chicago, Ill.—35 Michigan av.
Kansas City, Mo.
New York—25 W 42d.
St. Louis, Mo.—12th & Oliver.

**KINNEAR MFG. CO.....1174**
Columbus, O.
BRANCH OFFICES:
Atlanta, Ga.—602 Rhodes bldg.
Boston, Mass.—85 Water.
Chicago, Ill.—1312 Corn Ex. Bank bldg.
Cleveland, O.—725 B. of L. E. bldg.
Philadelphia, Pa.—1011 Chestnut.

**KITTOE BOILER & TANK CO.....1256**
Canton, O.

**KNISELY, HARRY C. CO.....1375**
506 S Canal, Chicago, Ill.

**KNOWLTON, M. D. CO.....751**
Rochester, N. Y.
BRANCH OFFICES:
Chicago, Ill.—549 W Jackson blvd.
New York—203 Wooster.
FOREIGN OFFICE:
London, Eng.—23 Goswell rd.

**KOEHRING MACHINE CO.....277**
Milwaukee, Wis.
SELLING AGENCIES:
Birmingham, Ala.—J. F. Donahoo Co., Woodward bldg.
Boston, Mass.—Fred. O. Johnson, 70 Kilby.
Charleston, S. C.—Carolina Portland Cement Co.
Chicago, Ill.—John A. Donahue, 1308 Gr. North. bldg.
Columbus, O. — Williams Contractors' Supply Co., Brunson bldg.
Detroit, Mich.—Good Roads Supply Co., 1408 Ford bldg
Greensboro, N. C.—E. F. Craven.
Kansas City, Mo. — Builders' Material Supply Co., Scarritt bldg.
Nashville, Tenn.—Wilson, Ingram & Co., 312 Church.
Newark, N. J.—Abbey-Brooks Co., 3 Passaic.
Rochester, N. Y.—Horace B. Trevor, 144 Cutler bldg.
Seattle, Wash.—Moran Engineering Co., 1246 1st av, S.

**KOLESCH & CO.....396**
138 Fulton, New York.

**KOVEN, L. O. & BRO.....1255**
50 Cliff, New York.
WORKS:
Jersey City, N. J.

**KRATZER, W. N. & CO.....1218**
3218 Smallman, Pittsburg, Pa.

**KREISCHER BRICK MFG. CO.....129**
119 E 23d, New York.
WORKS:
Kreischerville, S. I., N. Y.

**KUTZTOWN FOUNDRY & MACHINE CO. Top Outside Stencil & 92**
116 N Broad, Philadelphia, Pa.
WORKS:
Kutztown, Pa.

## L

**LAIDLAW-DUNN-GORDON CO. .....273**
Broadway & Cedar, New York.
WORKS:
Elmwood Place, Ohio.
BRANCH OFFICES:
Atlanta, Ga.—Equitable bldg.
Boston, Mass.—200 Devonshire.
Buffalo, N. Y.—898 Ellicott sq.
Chicago, Ill.—820 Old Colony bldg.

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Cincinnati, O.—211 West 4th.
Cleveland, O.—New England bldg.
Detroit, Mich.—Majestic bldg.
El Paso, Tex.—520 San Francisco.
Houston, Tex.—Brazos Hotel bldg.
Kansas City, Mo.—925 Scarritt bldg.
Los Angeles, Cal.—220 E 2d.
Louisville, Ky.—R 26, Board of Trade bldg.
New Orleans, La.—533 Baronne.
Philadelphia, Pa.—North American bldg.
Pittsburg, Pa.—407 Oliver bldg.
St. Louis, Mo.—605 Chemical bldg.
Salt Lake City, Utah—128 W 2d, S.
San Francisco, Cal.—148 1st.
Seattle, Wash.—524 1st av, S.

**LAMBERT HOISTING ENGINE CO.**
**See Front Adv. Pages**
115 Poinier, Newark, N. J.
BRANCH OFFICES:
Atlanta, Ga.—4th Nat'l Bank bldg.
Baltimore, Md.—131 S Howard.
Boston, Mass.—117 Main, Cambridge.
Chicago, Ill.—1156 Monadnock blk.
New Orleans, La.—217 S Peter.
New York—30 Church.
Pittsburg, Pa.—Lacock & Sandusky, N. S.
St. Louis, Mo.—715-717 N 2d.
San Francisco, Cal.—Stuart & Folsom.
Seattle, Wash.—24 W Connecticut.

**LANDON, E. R. IRON & WIRE WORKS....623**
166 N May, Chicago, Ill.

**LAWRENCE IRON & STEEL FOUNDRY CO.336**
400 32d, Pittsburg, Pa.

**LAWRENCEVILLE BRONZE CO.....218**
31st & Penn av, Pittsburg, Pa.

**LEADER IRON WORKS.....1262**
Decatur, Ill.
BRANCH OFFICES:
Chicago, Ill.—Monadnock blk.
New York—15 William.
Owego, N. Y.

**LEAVITT, C. W. & CO.....469**
34 Church, New York.

**LEEDS & NORTHRUP CO.....1037**
Stenton av, Gtn., Philadelphia, Pa.

**LESCHEN, A. & SONS ROPE CO.....1387**
920-922 N 1st, St. Louis, Mo.
BRANCH OFFICES:
Chicago, Ill.—117 W Lake.
Denver, Colo.—1649-51 Wazee.
Seattle, Wash.—313 Pacific blk.

**LIDGERWOOD MFG. CO.**
**See Adv. First Page of Book**
96 Liberty, New York.
BRANCH OFFICES:
Boston, Mass.
Chicago, Ill.—Old Colony bldg.
Cleveland, O.
Philadelphia, Pa.
Pittsburg, Pa.
Seattle, Wash.
FOREIGN OFFICE:
London, Eng.

**LINK-BELT CO.....309**
Hunting Park av & Reading Ry., Philadelphia, Pa.
WORKS:
Chicago, Ill.—Stewart av & 39th.
Indianapolis, Ind.
Philadelphia, Pa.—Nicetown.
BRANCH OFFICES:
Boston, Mass.—101 State.
Buffalo, N. Y.—601 Ellicott sq.
Denver, Colo.—Lindrooth, Shubart & Co.
New Orleans, La.—Wilmot Machinery Co.
New York—299 B'way.
Pittsburg, Pa.—1501-03 Park bldg.
St. Louis, Mo.—Central Nat'l Bank bldg.
San Francisco, Cal.—Eby Machinery Co.
Seattle, Wash.—439 New York blk.

**LITTLE, J. R. METAL WHEEL CO.....1368**
Quincy, Ill.

**LONG & ALLSTATTER CO.....761**
Hamilton, O.

**LUCIUS ENGINEERING CO.....135**
Hartje bldg., Pittsburg, Pa.

**LUDOWICI-CELADON CO.....1112**
Chamber of Commerce, Chicago, Ill.
BRANCH OFFICES:
Atlanta, Ga.—Candler bldg.
Boston, Mass.—Old South bldg.
Cleveland, O.—Hippodrome bldg.
Denver, Colo.—Colorado bldg.
Kansas City, Mo.—Grand av Temple bldg.
Minneapolis, Minn.—Plymouth bldg.

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New Orleans, La.—Hibernia Bank bldg.
New York—Neptune bldg.
Philadelphia, Pa.—Weightman bldg.
Pittsburg, Pa.—Park bldg.
Washington, D. C.—Union Trust bldg.
WORKS:
Chicago Heights, Ill.
Coffeyville, Kan.
Ludowici, Ga.
New Lexington, O.

**LUMEN BEARING CO.....68**
Buffalo, N. Y.
BRANCH OFFICE:
Toronto, Ontario, Can.

**LUNKENHEIMER CO.....1328**
Cincinnati, O.
BRANCH OFFICES:
Boston, Mass.—138 High.
Chicago, Ill.—186 N Dearborn.
New Orleans, La.—Tulane-Newcomb bldg.
New York—64-68 Fulton.
Pittsburg, Pa.—Park bldg.
San Francisco, Cal.—Call bldg.
FOREIGN OFFICES:
London, S. E., Eng.—35 Great Dover.
Sydney, Australia—A. Asher Smith, 56 Market.

**LYON METALLIC MFG. CO.....1039**
Aurora, Ill.
BRANCH OFFICES:
Chicago, Ill.—1013 Marquette bldg.
New York—1369 Hudson Terminal bldg.

**LYTTON MFG. CORPORATION.**
**1310, 1331 & 1338**
Sales Office: 1159 Hudson Terminal, New York.
WORKS:
Franklin, Va.

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**McCABE HANGER MFG. CO.....362**
425 W 25th, New York.

**McCOY, HENRY J. CO.....209**
65-67 Dey, New York.

**McFARLAND, J. C. & CO.....1375**
27th & 5th av, Chicago, Ill.
BRANCH OFFICE:
New York—410-416 E 32d.

**McRAE & ROBERTS CO.....982**
227 Campbell av, Detroit, Mich.

**MacKINNON BOILER & MACHINE CO.....95**
218 N Water, Bay City, Mich.

**MacLEOD, WALTER & CO.....502**
213 E Pearl, Cincinnati, O.

**MACOMBER & WHYTE ROPE CO.....1386**
507 S Clinton, Chicago, Ill.
BRANCH OFFICES:
New York—126 Centre.
Pittsburg, Pa.—424 1st av.
Portland, O.—235 Pine.
San Francisco, Cal.—34 Stewart.
Seattle, Wash.—Alaska bldg.

**MAKEPEACE, B. L.....89**
387 Washington, Boston, Mass.

**MANUFACTURERS' RECORD,**
**See Front Adv. Pages**
Merchants' Nat'l Bank bldg, Baltimore, Md.

**MARION MACHINE, FOUNDRY & SUPPLY CO.....254 & 467**
Marion, Ind.

**MARION STEAM SHOVEL CO.....732 & 1173**
W. Center, Marion, O.
BRANCH OFFICES:
Chicago, Ill.—1442-3 Monadnock blk.
New York—50 Church.
San Francisco, Cal.—718 Monadnock blk.
REPRESENTATIVES:
Denver, Colo.—Morse Bros. Mach'y & Supply Co.
Salt Lake City, Utah—Harris Bros.
Seattle, Wash. } E. P. Jamison & Co.
Spokane, Wash. }
Tacoma, Wash. }
FOREIGN OFFICE:
London, Eng.—Carr Bros.
Mexico City, Mex.—Consolidated Iron & Equip. Co.
Montreal, Que., Can.—F. H. Hopkins & Co.
Santiago, Chile—Spencer & Waters.
Stockholm, Sweden—Graham Bros.
Vancouver, B. C., Can.—A. G. Brown-Jamison Co., Ltd.

**MARSH-CAPRON MFG. COMPANY.....274**
480 Old Colony bldg, Chicago, Ill.
EASTERN AGENTS:
Boston, Mass.—383 Atlantic av.
New York—Harold L. Bond Co., 78 Beach.

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**MARSH CO.** ..... 726
975 Old Colony bldg, Chicago, Ill.
BRANCH OFFICE:
New York—50 Church.

**MATHEWS GRAVITY CARRIER CO.** ..... 309
Merriam Park, St. Paul, Minn.

**MAURER, HENRY & SON,** See Front Inside Cover
420 E 23d, New York.
BRANCH OFFICE:
Philadelphia, Pa.—Penna. bldg.
WORKS:
Maurer, N. Y.

**MEAD-MORRISON MFG. CO** See Front Adv. Pages
Cambridge (Boston), Mass.
BRANCH OFFICES:
Baltimore, Md.—821 Equitable bldg.
Birmingham, Ala.
Chicago, Ill.
New Orleans, La.—110 N Peters.
New York—149 B'way.
Philadelphia, Pa.—112 N Broad.
Pittsburg, Pa.—Machesney bldg.
San Francisco, Cal.—Metropolis Bank bldg.
FOREIGN OFFICE:
Montreal, Que., Can.—286 St. James.

**MECHANICAL APPLIANCE CO.** ..... 899
Milwaukee, Wis.

**MERCHANT & EVANS CO., INC.** ..... 1294
517 Arch, Philadelphia, Pa.
BRANCH OFFICES:
Baltimore, Md.—232 St. Paul.
Brooklyn, N. Y.—584 Flushing av.
Chicago, Ill.—347 Sheldon.
Kansas City, Mo.—2008 Baltimore av.
New York—242 Water.

**MERRILL BROS.** ..... 1324 & 1350
5 William, Maspeth (Borough of Queens), N. Y.

**MERRITT & CO.** ..... 681
93 Arch, Camden, N. J.

**MEYERS, FRED'K J. MFG. CO.** ..... 630
Hamilton, O.

**MEYERS, WILLARD F.** ..... 1137
342 Vernon av, Long Island City, N. Y.
BRANCH OFFICE:
Bedford, Ind.

**MICHELMANN STEEL CONSTRUCTION CO.** 1216
Quincy, Ill.

**MICHIGAN WIRE CLOTH CO.** ..... 1380
500 Howard, Detroit, Mich.

**MILBURN, A. ALEXANDER CO.** ..... 302 & 738
505-7 W Lombard, Baltimore, Md.

**MILWAUKEE ARTISTIC METAL CEILING CO.** ..... 228
Milwaukee, Wis.
BRANCH OFFICE:
Kansas City, Mo.—927 W 8th.

**MILWAUKEE CONCRETE MIXER & MACHINERY CO.** ..... 275
Milwaukee, Wis.
BRANCH OFFICES:
Atlanta, Ga.—De Marco & Fulford, 604 Walton bldg
Baltimore, Md.—Maryland Equipment & Supply Co.
Boston, Mass.—Lamont & Nelson, Pond bldg.
Charlotte, N. C.—Good Roads Machine Co.
Chicago, Ill.—T. O. Browning, 217 Chamber of Commerce.
Cincinnati, O.—Cincinnati Iron & Steel Co.
Cleveland, O.—McKenna Co., Williamson bldg.
Columbus, O.—Osborne & Sexton Machinery Co.
Corry, Pa.—Corry Bridge & Supply Co.
Davenport, Ia.—Lumsden & Meier.
Denver, Colo.—A. M. Ferguson, Nassau blk.
Detroit, Mich.—Frederick L. Hall, 2 McGraw bldg.
Duluth, Minn.—Kelley-How-Thomson Co.
Fort Wayne, Ind.—W. D. Miller, 248 W Main.
Kansas City, Mo.—Fireproof Buildings Material Co.
Lafayette, Ind.—W. J. Rosebery, Sr., Wallave blk.
Le Moyne, Pa.—J. B. Brunner
Los Angeles, Cal. — A. F. George Co., 265 S Los Angeles.
Louisville, Ky.—Thomas L. Barret, Board of Trade.
Memphis, Tenn.—F. D. Harvey & Co.
New York—H. Ehrenberg, 35 Warren.
Oklahoma City, Okla.—O. C. Green Concrete Mach'y Co.
Omaha, Neb.—Allen P. Ely & Co., 1110 Douglas.
Philadelphia, Pa.—Howard W. Read Co., 301 Arch.
Pine Bluff, Ark.—Eagle Iron Works.
Pittsburg, Pa.—Contractors' Machinery & Supply Co.
Richmond, Va.—Jos. A. Bell, 911 E Main.
Rochester, N. Y.—J. G. Ellendt, Builders' Exchange.
St. Louis, Mo.—Geo. W. Dudley, 1315 Chemical bldg.
San Francisco, Cal.—Berger & Carter, 504 Mission.
Seattle, Wash.—Northwestern Iron Works.
Spokane, Wash.—Al. H. Hoffman, Hutton bldg.
Washington, D. C.—H. L. Van Auken, Evans bldg.
FOREIGN OFFICES:
Montreal, Que., Can.—H. P. Andreson, 16 Liverpool, London & Globe bldg.
Vancouver, B. C.—C. W. Stancliffe & Co., Ltd.
Winnipeg, Man., Can.—Stuart Machinery Co

**MILWAUKEE CORRUGATING CO.** ..... 228
Milwaukee, Wis.
BRANCH OFFICE:
Kansas City, Mo.—927 W 8th.

**MINNEAPOLIS STEEL & MACHINERY CO.** 1217
Mineapolis, Minn.
BRANCH OFFICES:
Butte, Mont.—319 Electric bldg.
Charlotte, N. C.—Charlotte Contracting Co.
Dallas, Tex.—818 Praetorian bldg.
Denver, Colo.—902 Gas & Electric bldg.
El Paso, Tex.—H. A. Patch, 313 E. P. & S. W. bldg.
Minneapolis, Minn.—(Downtown Office)—914 Flour Exchange.
New York—Hamilton & Chambers, 29 B'way
Salt Lake City, Utah—322 Felt bldg.
San Francisco, Cal.—Braun, Williams & Russell.
Spokane, Wash.—225 Paulsen bldg.

**MISSISSIPPI GLASS CO.** ..... 535
115 B'way, New York.
BRANCH OFFICES:
Chicago, Ill.—72 E Madison.
St. Louis, Mo.—Main & Angelica.

**MISSISSIPPI WIRE GLASS CO.** ..... 534 & 540
115 B'way, New York.
BRANCH OFFICES:
Chicago, Ill.—72 E Madison.
St. Louis, Mo.—Main & Angelica.

**MONARCH VALVE & MFG. CO.** ..... 1334
Springfield, Mass.
BRANCH OFFICES:
Boston, Mass.—55 Batterymarch.
Chicago, Ill.—419 W 18th.
New York—39 Cortlandt.
Pittsburg, Pa.—Frick bldg. Annex.
Warren, Mass.

**MONIGHAN MACHINE CO.** See Front Adv. Pages
2034 Carroll av, Chicago, Ill.

**MORE LIGHT SIDEWALK CONSTRUCTION CO.** ..... 1345
29th st, Wheeling, W. Va.

**MORGAN ENGINEERING CO.** ..... 328 & 561
Alliance, O.
BRANCH OFFICES:
Birmingham, Ala.—Brown-Marx bldg.
Chicago, Ill.—755 Railway Exchange.
New York—165 B'way.
Pittsburg, Pa.—1114 Frick bldg.
FOREIGN OFFICE:
Brussels, Belgium—52 Rue de Congres.

**MORRILL, CHAS.** ..... 1006, 1135, 1185 & 1233
277 B'way, New York.

**MORRIS MACHINE WORKS.** ..... 1016
Baldwinsville, N. Y.
BRANCH OFFICES:
Charlotte, N. C.
Chicago, Ill.—223 N Jefferson.
Houston, Tex.
New York—39-41 Cortlandt.

**MORSE CHAIN CO.** ..... 238
Ithaca, N. Y.
BRANCH OFFICES:
Boston, Mass.—141 Milk.
Chicago, Ill.—805 Merchants' Loan & Trust bldg.
Cleveland, O.—421 Engineers' bldg.
Minneapolis, Minn.
New York—50 Church.
Pittsburg, Pa.—Westinghouse bldg.
San Francisco, Cal—Monadnock bldg.

**MORSE, FRANK W.** ..... 367, 486 & 656
512 Atlantic av, Boston, Mass.

**MORSE THERMO GAGE CO.** ..... 1038
208 E State, Ithaca, N. Y.

**MORSE TWIST DRILL & MACHINE CO.** 342, 374, 1046 & 1267
New Bedford, Mass.

**MULLINS, W. H. CO.** ..... 1166 & 1375
341 Franklin, Salem, O.

**MUNCIE ORNAMENTAL IRON WORKS.** ..... 625
Muncie, Ind.

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**MUNDY, J. S.....See Front Adv. Pages**
22-34 Prospect, Newark, N. J.
BRANCH OFFICES:
Baltimore, Md.—28 Light.
Boston, Mass.—383 Atlantic av.
Charleston, S. C.—213 Meeting.
Chicago, Ill.—Market & Randolph.
Cincinnati, O.—203 W Pearl.
Cleveland, O.—1032 Garfield bldg.
Houston, Tex.—1302 Nance.
Mobile, Ala.—160 N Commerce.
New York—39 Cortlandt.
Norfolk, Va.—224 Water.
Philadelphia, Pa.—1744 Market.
Pittsburg, Pa.—325 Water.
Portland, Ore.—29 1st.
Richmond, Va.—809 E Cary.
St. Louis, Mo.—210 Washington av.
St. Paul, Minn.—415 Pioneer Press bldg.
Seattle, Wash.—Occidental av & King.
FOREIGN OFFICES:
Halifax, Nova Scotia—118 Hollis.
Montreal, Que., Can.—F. H. Hopkins & Co.

**MURCHEY MACHINE & TOOL CO.....754**
52 Porter, cor 4th av, Detroit, Mich.
AGENTS:
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New York—Hill, Clark & Co., 136 Cedar.
—Fairbanks Co.
—Manning, Maxwell & Moore, 91 Liberty.
Philadelphia, Pa.—Fairbanks Co.
—Manning, Maxwell & Moore.
Pittsburg, Pa.—Fairbanks Co.
—Frick & Lindsay Co.

**MYERS, F. E. & BRO... 203, 361, 774 & 1026**
Ashland, O.
DISTRIBUTING HOUSES:
Albany, N. Y.
Cedar Rapids, Ia.
Harrisburg, Pa.
Milwaukee, Wis.
St. Louis, Mo.
EXPORT OFFICE:
New York—11 B'way.
BRANCH OFFICES:
Aberdeen, S. D.—Crane & Ordway.
—Jackson Hardware Co.
Albany, Ga.—Georgia Farm Machinery Co.
Bangor, Me.—C. M. Conant Co.
Boise, Idaho—Mitchell, Lewis & Staver Co.
Boston, Mass.—Joseph Breck & Co.
—Lunt Moss Co.
—S. B. Church.
—Brackett, Shaw & Lunt Co.
Charleston, S. C.—Cameron & Barkley Co.
Chattanooga, Tenn.—James Supply & Hardware Co.
Dallas, Tex.—Briggs-Weaver Machinery Co.
—Jno. Deere Plow Co.
Denver, Colo.—M. J. O'Fallon Supply Co.
Fargo, N. D.—Crane & Ordway.
Green Bay, Wis.—Morley-Murphy Hardware Co.
Kalispell, Mont.—Kalispell Mer. Co.
Kansas City, Mo.—Stowe Imp. Supply Co.
—Crane Co.
Knoxville, Tenn.—Crane Co.
Little Rock, Ark.—Crane Co.
Lewiston, Me.—Geo. B. Haskell Co.
Los Angeles, Cal.—Crane Co.
—Baker & Hamilton.
Macon, Ga.—Mallory Mill Supply Co.
Minneapolis, Minn.—Janney, Semple, Hill & Co.
Missoula, Mont.—Missoula Mercantile Co.
Mobile, Ala.—Southern Hardware & Supply Co.
Montgomery, Ala.—Loeb Hardware Co.
Muskogee, Okla.—Crane Co.
New York—J. S. Woodhouse.
Oklahoma City, Okla.—Crane Co.
Omaha, Neb.—Crane Co.
—Henry & Allen.
—Lee-Glass-Andreesen Hdw. Co.
Portland, Me.—C. M. & H. T. Plummer.
—Edwards & Walker.
Portland, Ore.—Mitchell, Lewis & Staver Co.
Sacramento, Cal.—Thompson-Diggs Co.
—Baker & Hamilton.
St. Paul, Minn.—Crane & Ordway.
Salt Lake City, Utah.—Consolidated Wagon & Machine Co.
San Francisco, Cal.—Baker & Hamilton.
—Crane Co.
—Pacific Hardware & Steel Co.
Seymour, Conn.—S. B. Church.
Sioux City, Ia.—Crane Co.
Somersworth, N. H.—Brackett, Shaw & Lunt Co.
Spokane, Wash.—Mitchell, Lewis & Staver Co.
Springfield, Mass.—Bacon & Donovan Eng. Co.
Tampa, Fla.—Cameron & Barkley Co.
Waco, Tex.—Herrick Hardware Co.
—McLendon Hardware Co.

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Watertown, N. Y.—Hunting Co.
—W. W. Conde.
Wichita, Kans.—Crane Supply Co.
Worcester, Mass.—Ross Bros. Co.
CANADIAN OFFICES:
Calgary, Alberta, N. W. T.—J. H. Ashdown Hardware Co., Ltd.
Hamilton, Ont.—Wood, Vallance & Co.
London, Ont.—Hobbs Hardware Co., Ltd.
Manitoba, Man.—J. H. Ashdown Hardware Co., Ltd.
Montreal, Que.—Lewis Bros., Ltd.
Sussex, N. B.—H. H. Dryden.
Vancouver, B. C.—E. G. Prior Co., Ltd.
Victoria, B. C.—E. G. Prior Co., Ltd.
Winnipeg, Man.—J. H. Ashdown Hardware Co., Ltd.

## N

**NASON MFG. CO..... 484, 965, 1310 & 1335**
71 Fulton, New York.

**NATIONAL-ACME MFG. CO.....51 & 769**
7500 Stanton av, S. E., Cleveland, O.
BRANCH OFFICES:
Atlanta, Ga.—Candler bldg.
Boston, Mass.—141 Milk.
Chicago, Ill.—549 Wash'n blvd.
Detroit, Mich.—1222 Majestic bldg.
New York—77 White.
FACTORIES:
Cleveland, O.
Montreal, Can.
WAREHOUSES:
New York
Chicago
FOREIGN REPRESENTATIVES:
Berlin, Budapest, Copenhagen, London, St. Petersburg, Shanghai, Stockholm, Vienna — Schuchardt & Schutte.
Barcelona, Bilbao, Brussels, Cologne, Liege, Madrid, Milan, Paris — Alfred H. Schutte.

**NATIONAL BOLT & NUT CO.....912**
General Offices & Works: 62d & A. V. R. R., Pittsburg, Pa.
BRANCH OFFICES:
Chicago, Ill.—417 Fisher bldg.
New York—1169 Fulton bldg.
St. Louis, Mo.—214 N 6th.

**NATIONAL BRAKE & ELECTRIC CO.....273**
Milwaukee, Wis.
BRANCHES:
Chicago, Ill.—1344 First Nat'l Bank bldg.
St. Louis, Mo.—405 Security bldg.
New York—111 B'way.
Pittsburg, Pa.—9th & Penn av.
FOREIGN OFFICE:
London, Eng.—14 Great Smith st.

**NATIONAL CONTRACTOR & BUILDER, See Last Page of Book**
506 14th, N. W., Washington, D. C.

**NATIONAL ENVELOPE SEALING & STAMPING MACHINE CO.....735**
New John Hancock bldg, Boston, Mass.

**NATIONAL FIRE PROOFING CO.....482**
Fulton bldg, Pittsburg, Pa.
BRANCH OFFICES:
Boston, Mass.—John Hancock bldg.
Canton, O.—City Nat'l Bank.
Chicago, Ill.—Commercial Nat'l Bank bldg.
Cincinnati, O.—Union Trust bldg.
Columbus, O.—Brunson bldg.
Detroit, Mich.—Penobscot bldg.
Los Angeles, Cal.—Central bldg.
Minneapolis, Minn.—Lumber Ex.
New York—Flat Iron bldg.
Philadelphia, Pa.—Land Title bldg.
Washington, D. C.—Colorado bldg.
FOREIGN OFFICE:
Toronto, Ont.—Traders' Bank bldg.

**NATIONAL GAUGE CO.....522**
168 8th, Brooklyn, N. Y.

**NATIONAL HOISTING ENGINE CO.**
Harrison, N. J. **See Front Adv. Pages**

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**NATIONAL IRON CO...See Front Adv. Pages**
Duluth, Minn.
BRANCH OFFICE & WAREHOUSE:
Spokane, Wash.—Washington Mach'y & Supply Co.

**NATIONAL SHEET METAL ROOFING CO.1166**
339 Grand, Jersey City, N. J.

**NATIONAL TOOL CO.....343, 345, 346 & 580**
Cleveland, O.

**NESTOR MFG. CO., INC.....895**
40 W 13th, New York.

**NEVIN, T. H. CO.....937 & 1372**
North Side, Pittsburg, Pa.

**NEW BRITAIN MACHINE CO.....1210**
New Britain, Conn.

**NEW ENGLAND GRANITE WORKS.546 & 547**
Westerly, R. I.
BRANCH OFFICES:
Concord, N. H.
New York—489 5th av.

**NEW ERA MFG. CO.....491**
Kalamazoo, Mich.

**NEW JERSEY TERRA COTTA CO.....1272**
Singer bldg, New York.
WORKS:
Perth Amboy, N. J.
AGENTS:
Boston, Mass.—Fiske & Co., 161 Devonshire.
Pittsburg, Pa.—McKallip & Co., 2835 Smallman.

**NEW YORK CONTINENTAL JEWEL FILTRATION CO. .....479**
15 Broad, New York.
BRANCH OFFICE:
Chicago, Ill.—167 Dearborn.

**NEW YORK CORDAGE CO.....314**
83 & 85 Wall, New York.

**NEW YORK RUBBER CO.....612**
Reade & Church, New York.

**NIAGARA FALLS METAL STAMPING WKS.239**
Niagara Falls, N. Y.

**NIAGARA MACHINE & TOOL WORKS....771**
Buffalo, N. Y.

**NICHOLSON FILE CO.....473**
Providence, R. I.
BRANCH OFFICES:
Anderson, Ind.
Paterson, N. J.
FOREIGN OFFICE:
Port Hope, Ont., Canada.

**NORTH AMERICAN METALINE CO.....876**
4 West av, Long Island City, N. Y.

**NORTHERN ENGINEERING WORKS,**
9 Chene, Detroit, Mich. **328, 339 & 599**
BRANCH OFFICES:
Chicago, Ill.—539 Monadnock blk.
New York—120 Liberty.

**NORTHWESTERN COMPO-BOARD CO.....269**
Minneapolis, Minn.

**NORTHWESTERN TERRA COTTA CO...1272**
Main Office & Works: 2525 Clybourn av, & Branch Office: 1415 Railway Exchange, Chicago, Ill.

**NORWALK IRON WORKS CO.....271**
South Norwalk, Conn.

**NUTTALL, R. D. CO.....325 & 529**
Fayette & Garrison pl, Pittsburg, Pa.

## O

**OHIO MALLEABLE IRON CO.....224**
Columbus, O.

**OIL WELL SUPPLY CO.....914**
215 Water, Pittsburg, Pa.

**OKONITE CO. .....1384**
253 B'way, New York.

**OLIVER TYPEWRITER CO.....1326**
47-55 Dearborn, Chicago, Ill.
BRANCH OFFICE:
New York—310 B'way.

**ORENSTEIN-ARTHUR KOPPEL CO.....1043**
Machesney bldg, Pittsburg, Pa.
BRANCH OFFICES:
Boston, Mass.—33 Oliver.
Chicago, Ill.—Peoples Gas bldg.
Denver, Colo.—Mercantile bldg.
New York—30 Church.
Philadelphia, Pa.—Stephen-Girard bldg.
San Francisco, Cal.—Chronicle bldg.
WORKS:
Koppel, Pa.

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**OSBORN ENGINEERING CO.....416**
Osborn bldg, Cleveland, O.
BRANCH OFFICE:
New York—45 B'way.

**OSBORN MFG. CO.....498**
5401 Hamilton av, N. E., Cleveland, O.
BRANCH OFFICE:
New Durham, N. H.—(Rice Plant.)

**OTIS ELEVATOR CO.....389**
17 Battery pl, New York.
Repair & Supply Dept.: 260 11th av.
BRANCH OFFICES:
Albany, N. Y.—310 B'way.
Atlanta, Ga.—84½ Marietta.
Atlantic City, N. J.—14 Presbyterian av.
Baltimore, Md.—Equitable bldg.
Birmingham, Ala.—Brown-Marx bldg.
Boston, Mass.—34 India.
Brooklyn, N. Y.—363 Jay.
Buffalo, N. Y.—Franklin & Huron.
Charleston, W. Va.—903 Kanawha.
Charlotte, N. C.—209 N College.
Chattanooga, Tenn.—16 W 7th.
Chicago, Ill.—9 Jackson blvd.
Repair & Supply Dept.: 213 W Michigan.
Cincinnati, O.—414 Walnut.
Cleveland, O.—701 St. Clair av, N. E.
Columbus, O.—12 S Wall.
Dallas, Tex.—Young & Akard.
Denver, Colo.—1609 Glenarm.
Des Moines, Ia.—Crocker bldg.
Detroit, Mich.—5th & Fort.
Erie, Pa.—1217 Peach.
Fort Worth, Tex.—1022 Monroe.
Grand Rapids, Mich.—40 S Ionia.
Hartford, Conn.—Courant bldg.
Houston, Tex.—Office & Works: German st.
Indianapolis, Ind.—101 Kentucky av.
Jacksonville, Fla.—Buckman bldg.
Kansas City, Mo.—R. A. Long bldg.
Los Angeles, Cal.—218 E 4th.
Louisville, Ky.—Lincoln Nat'l Bank bldg.
Macon, Ga.—Commercial Nat'l Bank bldg.
Memphis, Tenn.—Madison av & 3rd.
Milwaukee, Wis.—144 W Water.
Minneapolis, Minn.—Security Bank bldg.
Mobile, Ala.—269 St. Michaels.
Montgomery, Ala.—1st Nat'l Bank bldg.
Newark, N. J.—25 William.
New Orleans, La.—852 Carondelet.
Norfolk, Va.—Board of Trade bldg.
Oklahoma City, Okla.—Colcord bldg.
Omaha, Neb.—1214 Howard.
Philadelphia, Pa.—12th & Sansom.
Works: Frankford av.
Pittsburg, Pa.—Keenan bldg.
Portland, Me.—495 Fore.
Portland, Ore.—88 1st.
Providence, R. I.—218 S Main.
Richmond, Va.—12 S 10th.
Rochester, N. Y.—Frank & Commercial.
St. Louis, Mo.—Security bldg.
Works: 8th & Mullanphy.
Salt Lake City, Utah—Judge bldg.
San Antonio, Tex.—104 Yturri.
San Francisco, Cal.—Office & Works: Stockton, North Point & Beach.
Savannah, Ga.—Germania Nat'l Bank bldg.
Scranton, Pa.—217 Spruce.
Seattle, Wash.—26 W Connecticut.
Spokane, Wash.—821 Paulsen bldg.
Springfield, Mass.—60 Wilbraham rd.
Syracuse, N. Y.—374 W. Fayette.
Toledo, O.—522 Jackson.
Utica, N. Y.—19 Arcade bldg.
Washington, D. C.—Metropolitan Bank bldg.
Wheeling, W. Va.—1211 Jacob.
Worcester, Mass.—Central Ex. bldg.
Youngstown, O.—Federal bldg.
WORKS:
Buffalo, N. Y.
Chicago, Ill.
Harrison, N. J.
Moline, Ill.
Peru, Ind.
Philadelphia, Pa.
Quincy, Ill.
St. Louis, Mo.
San Francisco, Cal.
Springfield, Mass.
Yonkers, N. Y.

## P

**PARKER, J. C. & SONS FIBRE CO.....472**
New Castle, Del.

**PARKER, JOHN L. CO.....970 & 1198**
Worcester, Mass.

**PATTISON, W. M. SUPPLY CO.....1042**
197 St. Clair av, Cleveland, O.

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**PEASE, C. F. CO.....89**
167 Adams, Chicago, Ill.

**PEERLESS-V-BELT CO. .....239**
North 16th & H, Cedar Rapids, Iowa.

**PELS, HENRY & CO.....761, 1035 & 1161**
West & Albany, New York.

**PENNSYLVANIA MARBLE & GRANITE CO.**
Penna. bldg, Philadelphia, Pa. **544 & 856**

**PENNSYLVANIA RUBBER CO.611, 1118 & 1299**
Jeannette, Pa.
BRANCH OFFICES:
Chicago, Ill.—1241 Michigan av.
Detroit, Mich.—882 Woodward av.
Los Angeles, Cal.—930 So. Main.
Minneapolis, Minn.—67 S 10th.
New York—1741 B'way.
Pittsburg, Pa.—505 Liberty av.
San Francisco, Cal.—512 Mission.

**PETROLEUM IRON WORKS CO.....1251**
Sharon, Pa.
BRANCH OFFICES:
Houston, Tex.
New York—50 Church.
St. Louis, Mo.—Title Guaranty bldg.

**PHOENIX ELECTRIC CO.....901**
Mansfield, O.

**PICTON ISLAND RED GRANITE CO.....544**
320 5th av, New York.
QUARRIES:
Picton Island, N. Y.
St. Lawrence River, N. J.

**PITT, WM. R. COMPOSITE IRON WORKS.628**
136 W 24th, New York.

**PITTSBURG CONVEYING MACHINERY CO.734**
Pittsburg, Pa.

**PITTSBURG SHOVEL CO.....1172**
Oliver bldg, Pittsburg, Pa.
WORKS:
Leechburg, Pa.

**PITTSBURGH GAGE & SUPPLY CO.....1334**
30th & Liberty av, Pittsburg, Pa.

**PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO. .....967 & 1335**
Pittsburg, Pa.
BRANCH OFFICES:
Birmingham, Ala.—Young & Vann Supply Co.
Bisbee, Ariz.—Carl Clausen Engineering Office.
New York—C. W. Van Blarcom, 30 Church.
Philadelphia, Pa.—Chas. H. Whitney & Co., Harrison bldg.
Salt Lake City, Utah—Engineering & Machinery Co.
San Francisco, Cal.—E. A. Keithley, Metropolis bldg.

**POMEROY, H. C. CO.....1375**
427 W 13th, New York.

**POST, FRED'K CO.....90**
3635 N Hamlin av, Chicago, Ill.
BRANCH OFFICE:
San Francisco, Cal.—135 Second.

**POWER & MINING MACHINERY CO.....336**
Broadway & Cedar, New York.
WORKS:
Cudahy, Wis.
BRANCH OFFICES:
Atlanta, Ga.—Equitable bldg.
Boston, Mass.—200 Devonshire.
Buffalo, N. Y.—898 Ellicott sq.
Chicago, Ill.—820 Old Colony bldg.
Cincinnati, O.—211 West 4th.
Cleveland, O.—New England bldg.
Detroit, Mich.—Majestic bldg.
El Paso, Tex.—520 San Francisco.
Houston, Tex.—Brazos Hotel bldg.
Kansas City, Mo.—925 Scarritt bldg.
Los Angeles, Cal.—220 E 2d.
Louisville, Ky.—R 26, Board of Trade bldg.
New Orleans, La.—533 Baronne.
Philadelphia, Pa.—North American bldg.
Pittsburg, Pa.—407 Oliver bldg.
St. Louis, Mo.—605 Chemical bldg.
Salt Lake City, Utah—128 W 2d, S.
San Francisco, Cal.—522 Sheldon bldg.
Seattle, Wash.—524 1st av, S.

**PRENTISS TOOL & SUPPLY CO.....746**
115 Liberty, New York.
BRANCH OFFICES:
Boston, Mass.—145 Oliver.
Buffalo, N. Y.—607 D. S. Morgan bldg.
Rochester, N. Y.—215 E. & B. bldg.
Scranton, Pa.—720 Prescott av.
Syracuse, N. Y.—520 University blk.

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**PRESCOTT, FRED M. STEAM PUMP CO..1023**
Broadway & Cedar, New York.
WORKS:
Milwaukee, Wis.
BRANCH OFFICES:
Atlanta, Ga.—Equitable bldg.
Boston, Mass.—200 Devonshire.
Buffalo, N. Y.—898 Ellicott sq.
Chicago, Ill.—820 Old Colony bldg.
Cincinnati, O.—211 W 4th.
Cleveland, O.—New England bldg.
Detroit, Mich.—Majestic bldg.
El Paso, Tex.—520 San Francisco.
Houston, Tex.—Brazos Hotel bldg.
Kansas City, Mo.—925 Scarritt bldg.
Los Angeles, Cal.—220 E 2d.
Louisville, Ky.—R 26, Board of Trade bldg.
New Orleans, La.—533 Baronne.
Philadelphia, Pa.—North American bldg.
Pittsburg, Pa.—407 Oliver bldg.
St. Louis, Mo.—605 Chemical bldg.
Salt Lake City, Utah—128 W 2d, S.
San Francisco, Cal.—148 1st.
Seattle, Wash.—524 1st av, S.

**PRESSED STEEL TANK CO.....1259**
Milwaukee, Wis.

**PROUDFIT LOOSE LEAF CO.....686**
Grand Rapids, Mich.
BRANCH OFFICES:
Birmingham, Ala.—608 Chamber of Commerce bldg.
Boston, Mass.—John Hancock bldg.
Buffalo, N. Y.—158 Pearl.
Chicago, Ill.—604 Security bldg.
Cincinnati, O.—Thoms bldg.
Cleveland, O.—118 St. Clair av.
Fort Wayne, Ind.—302 W Superior.
Kansas City, Mo.—912 Grand av.
Louisville, Ky.—900 Lincoln Bank bldg.
New York—108 Fulton.
Philadelphia, Pa.—225 S. 6th
Pittsburg, Pa.—3029 Jenkins Arcade bldg.
San Antonio, Tex.—309 Mackay bldg.
San Francisco, Cal.—221 Balboa bldg.
Tampa, Fla.—211 S Lafayette.
Wichita, Kan.—Beacon bldg.
FOREIGN OFFICES:
Toronto, Ont., Can.—46 Spadina av.

## Q

**QUEEN & CO., INC.....42**
1211 Arch, Philadelphia, Pa.

## R

**RANSOME CONCRETE MACHINERY CO...277**
Dunellen, N. J.
BRANCHES:
Atlanta, Ga.—W. E. Austin Machinery Co.
Boston, Mass.—6 Beacon.
Chicago, Ill.—W. B. Hough Co., Monadnock blk.
Columbus, O.—1299 Fair av.
Denver, Colo.—Mine & Smelter Supply Co.
Des Moines, Ia.—W. B. Hough Co.
Detroit, Mich.—W. B. Hough Co.
El Paso, Tex.—Mine & Smelter Supply Co.
Fort Worth, Tex.—W. E. Austin Mach'y Co.
Indianapolis, Ind.—W. B. Hough Co.
Kansas City, Mo—710 Victor bldg.
Minneapolis, Minn.—W. B. Hough Co.
New Orleans, La.—W. E. Austin Mach'y Co.
New York—1133 B'way.
Philadelphia, Pa.—Commonwealth bldg.
Pittsburg, Pa.—Keystone bldg.
St. Louis, Mo.—Chemical bldg.
Salt Lake City, Utah—Mine & Smelter Supply Co.
San Antonio, Tex.—W. E. Austin Mach'y Co.
San Francisco, Cal.—N. B. Livermore & Co.
Seattle, Wash.—N. B. Livermore & Co.
FOREIGN OFFICES:
Mexico City, Mex.—Mexico Mine & Smelter Supply Co.
Montreal, Que., Can.—F. H. Hopkins & Co.

**RAPID ADDRESSING MACHINE CO.....3**
374-378 B'way, New York.
BRANCH OFFICE:
Chicago, Ill.—610 Federal.

**RAYMOND CONCRETE PILE CO.....959**
140 Cedar, New York.
BRANCH OFFICES:
Baltimore, Md.—Pratt & Concord.
Chicago, Ill.—135 Adams.
Pittsburg, Pa.—Union Bank bldg.

**READING CRANE & HOIST WORKS.....329**
Reading, Pa.

**REEDY, H. J. CO.....390**
15 W 2d, Cincinnati, O.

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**REEVES BROS. CO....244, 648, 1252 & 1263**
Alliance, O.

**REMPPIS, WM. F. CO.....631**
Reading, Pa.
BRANCH OFFICE:
Philadelphia, Pa.—1506 Sansom.

**RICHARDS-WILCOX MFG. CO.....1313**
3rd & Q, Aurora, Ill.
BRANCH OFFICES:
Boston, Mass.—139 Pearl.
Chicago, Ill.—49 E Lake.
New York—85 Walker.
Philadelphia, Pa.—50 S 6th.
St. Louis, Mo.—1609 Chemical bldg.

**RICHARDSON SCALE CO.....1139**
3 Park Row, New York.
WORKS:
Passaic, N. J.
BRANCH OFFICE:
Chicago, Ill.—122 Monroe.

**RIESECK, P. .....480, 566, 631 & 1218**
Allegheny av & Rebecca, N. S., Pittsburg, Pa.

**RIFE ENGINE CO.....614**
2437 Trinity bldg, New York.
DOMESTIC AGENCIES:
Atlanta, Ga.—Cotton States Belting & Supply Co..
Birmingham, Ala.—Young & Vann Supply Co.
Boston, Mass.—Lunt Moss Co.
Chicago, Ill.—Fairbanks, Morse & Co.
Denver Colo.—M. J. O'Fallon Supply Co.
Frederick, Md.—E. S. Mobler & Bro.
Lynchburg, Va.—Ainslie Martin Hardware Co.
Pittsburg, Pa.—Reineke Wagner Pump & Supply Co.
Portland, Ore.—Reierson Machinery Co.
Richmond, Va.—Sydnor Pump & Well Co.
St. Louis, Mo.—N. O. Nelson Mfg. Co.
San Francisco, Cal.—Woodin & Little.
Seattle, Wash.—Caldwell Machinery Co.
Tacoma, Wash.—Caldwell Machinery Co.
FOREIGN AGENCIES:
Aarhus, Denmark—Rahr's Tekniske Forretning.
Christchurch, N. Z.—Booth, MacDonald & Co.
Copenhagen, Denmark—Ahlmann & Ohlsen.
Las Canas, Cuba—Genaro Perez.
Libau, Russia—Ing. W. Schiller.
Lima, Peru—Antenor Valladares.
Lisbon, Portugal—Jayme A. Marques.
Manila, P. I.—Castle Bros., Wolf & Sons.
Melbourne, Australia—Noyes Bros.
Mexico, D. F., Mex.—Mexico Mine & Smelter Supply Co.
San Jose, Costa Rica—Macaya & Co.
San Juan, Porto Rico—Dooley Smith & Co.
Santiago, Chile—De Passier & Co.
Sao Paulo, Brazil, S. A.—M. Fontoura & Co.
Wien, Austria—Garvenswerke.

**RINALD BROS. .....939**
1142 N Hancock, Philadelphia, Pa.

**ROCK ISLAND MFG. CO.....1349**
Rock Island, Ill.
BRANCH OFFICES:
Chicago, Ill.—19-21 E Lake.
New York—136 Liberty.
San Francisco, Cal.—576 Mission.
FOREIGN OFFICE:
Ottawa, Can.—Geo. M. Gray (Canadian Rep.).

**ROCKPORT GRANITE CO.....546**
Rockport, Mass.
BRANCH OFFICES:
Boston, Mass.—31 State.
Chicago, Ill.—R 1119, 138 Washington.
New York—F. E. Foster, 21 Park Row.

**ROCKWELL FURNACE CO.....505 & 508**
26 Cortlandt, New York.

**ROCKWELL, W. S. CO.....88 & 504**
50 Church, New York.

**RODEFER GLASS CO.....539**
Bellaire, O.

**RODGERS BOILER & BURNER CO.....190**
Muskegon, Mich.

**ROEBLING CONSTRUCTION CO.....483**
Metropolitan Tower, New York.
BRANCH OFFICES:
Boston, Mass.—101 Tremont.
Buffalo, N. Y.—Erie Co. Bank bldg.
Chicago, Ill.—Ashland blk.
Philadelphia, Pa.—Land Title bldg.
San Francisco, Cal.—Crocker bldg.

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**ROEBLING'S, JOHN A. SONS CO.....1381**
Main Office: Trenton, N. J.
WORKS:
Trenton & Roebling, N. J.
BRANCH OFFICES:
Atlanta, Ga.—Empire bldg.
Boston, Mass.—John A. Roebling's Sons Co. of New York, 93-95 Pearl.
Chicago, Ill.—165 W. Lake.
Cleveland, O.—701 St. Clair av, N. E.
Los Angeles, Cal.—E. Market & Alameda.
New York—John A. Roebling's Sons Co. of New York, 117-119-121 Liberty.
Philadelphia, Pa.—627 Market.
Portland, Ore.—89 5th.
San Francisco, Cal.—624-646 Folsom.
Savannah, Ga.—412 Bay, E.
Seattle, Wash.—900 1st av, S.

**ROGERS, H. A. CO.....520**
19 John, New York.

**ROSSENDALE-REDDAWAY BELTING & HOSE CO. .....74**
Newark, N. J.

**RUGGLES-COLES ENGINEERING CO.....378**
48 Church, New York.
BRANCH OFFICES:
Atlanta, Ga.—Hancock, Holmes Fdry. & Mach. Co.
Chicago, Ill.—McCormick bldg.
San Francisco, Cal.—Smith, Emery & Co.
FOREIGN OFFICES:
Hamburg, Germany—Walther Ferber.
London, Eng.—Electro Metals, Ltd., 9½ Union ct. Old Broad st.
Paris, France—M. J. Davidsen, 5 Rue Feulon, Place Lafayette.
Stockholm, Sweden—Aktiebolaget Ingeniorsbyran Allians.

**RUSSEL WHEEL & FOUNDRY CO.....205**
Detroit, Mich.

**RUTLAND FIRE CLAY CO.....971**
Rutland, Vt.
BRANCH OFFICE:
Chicago, Ill.—223 W 12th.

**RYERSON, JOSEPH T. & SON.....1214**
2558 W 16th, Chicago, Ill.
BRANCH OFFICES:
Milwaukee, Wis.—1142 Wells bldg.
Minneapolis, Minn.—523 Security Bank bldg.
New York—30 Church.
Pittsburg, Pa.—1573 Frick bldg, Annex.
St. Louis, Mo.—551 Pierce bldg.
Seattle, Wash.—Alaska bldg.

## S

**ST. LOUIS PAPER CAN & TUBE CO.....197**
3115-19 N B'way, St. Louis, Mo.

**ST. LOUIS SALES CO.....1348**
1224 Chemical bldg, St. Louis, Mo.

**ST. PAUL FOUNDRY CO.....1217**
Como av & Mackubin, St. Paul, Minn.

**ST. PAUL ROOFING, CORNICE & ORNAMENT CO. .....229**
St. Paul, Minn.

**SAMSON CORDAGE WORKS.....1124**
88 Broad, Boston, Mass.

**SAYRE & FISHER CO. See Front Inside Cover**
261 B'way, New York.
WORKS:
Sayreville, N. J.

**SCAIFE, WM. B. & SONS CO. 477, 1216 & 1250**
221 1st av, Pittsburg, Pa.

**SCHAEFFER & BUDENBERG MFG. CO..1288**
963-965 Kent av, Brooklyn, N. Y.
BRANCH OFFICES:
Chicago, Ill.—315 Dearborn, Manhattan bldg.
Pittsburg, Pa.—Frick bldg, Annex.

**SCHREIBER, L. & SONS CO.....630**
8th & Eggleston av, Cincinnati, O.
BRANCH OFFICES:
Atlanta, Ga.
Chicago, Ill.
Denver, Colo.
New Orleans, La.
New York—1133 B'way.
St. Louis, Mo.
San Francisco, Cal.

**SCHULER-MUELLER CO.....539**
314-324 W Superior, Chicago, Ill.

**SCHULE, F. H. CO.....1139**
114-118 Liberty, New York.

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**SEIFERT, FRANK A. PLASTIC RELIEF CO.....350**
2627-2631 Dayton, St. Louis, Mo.

**SHAW, BENJ. F. CO.....967**
Wilmington, Del.

**SHEPARD ELECTRIC CRANE & HOIST CO.....331 & 600**
Montour Falls, N. Y.
BRANCHES:
Chicago, Ill.—1113 Peoples Gas bldg.
New York—50 Church.
Philadelphia, Pa.—Stephen Girard bldg.
Pittsburg, Pa.

**SHORE INSTRUMENT & MFG. CO.....777**
557 W 22d, New York.
FOREIGN OFFICES:
Berlin, Germany—Schuchardt & Schutte.
Barcelona, Spain—Alfred H. Schutte.
Bilbao, Spain—Alfred H. Schutte.
Brussels, Belgium—Alfred H. Schutte.
Budapest, Austria—Schuchardt & Schutte.
Copenhagen, Denmark—Schuchardt & Schutte.
Cologne, Germany—Alfred H. Schutte.
Japan—Schuchardt & Schutte.
Liege, Belgium—Alfred H. Schutte.
London, Eng.—Schuchardt & Schutte.
Milan, Italy—Alfred H. Schutte.
Naples, Italy—Alfred H. Schutte.
Paris, France—Alfred H. Schutte.
St. Petersburg, Russia—Schuchardt & Schutte.
Shanghai, China—Schuchardt & Schutte.
Stockholm, Sweden—Schuchardt & Schutte.
Turin, Italy—Alfred H. Schutte.
Vienna, Austria—Schuchardt & Schutte.

**SHUSTER, F. B. CO.....781**
New Haven, Conn.

**SILVER LAKE CO.....1124**
78 Chauncey, Boston, Mass.

**SIMMONS, JOHN CO....481, 990, 1050 & 1330**
104 Centre, New York.

**SIMONDS MFG. CO.....474**
Fitchburg, Mass.
WORKS:
Chicago, Ill.
Fitchburg, Mass.
Lockport, N. Y.
BRANCH OFFICES:
Chicago, Ill.
New Orleans, La.
New York—40 Murray.
Portland, Ore.
San Francisco, Cal.
Seattle, Wash.
FOREIGN OFFICES:
London, Eng.
Montreal, Que.
St. Johns, N. B.
Vancouver, B. C.

**SLOCOMB, J. T. CO.....878**
29 Oxford, Providence, R. I.

**SMART, A. J. MFG. CO.....1267**
Greenfield, Mass.

**SMITH, F. P. WIRE & IRON WORKS....625**
Lake & Dearborn, Chicago, Ill.

**SMITH, J. D. FOUNDRY SUPPLY CO.....499**
1846 Scranton rd, N. W., Cleveland, O.

**SMITH, T. L. CO., THE.....276**
Majestic bldg, Milwaukee, Wis.
BRANCH OFFICES:
Atlanta, Ga.—Harwell pl, nr 605 Marietta.
Boston, Mass.—53 Oliver.
Chicago, Ill.—335 Old Colony bldg.
Cincinnati, O.—205 W Pearl.
Cleveland, O.—605 Schofield bldg.
Columbus, O.—605 Wyandotte bldg.
Denver, Colo.—1722 Wazee.
Houston, Tex.—1415 Carter bldg.
Kansas City, Mo.—804 Walnut.
Los Angeles, Cal.—431 Citizen's Nat'l Bank bldg.
Louisville, Ky.—331 W Main.
New York—30 Church.
Philadelphia, Pa.—1744 Market.
Pittsburg, Pa.—204 Ferguson bldg.
Portland, Ore.—46-48 Front.
Richmond, Va.—1138 Mutual bldg.
St. Louis, Mo.—810 N. Main.
St. Paul, Minn.—415 Pioneer Press bldg.
Salt Lake City, Utah—167 W. 2d, South.
San Francisco, Cal.—320 California.
Seattle, Wash.—613 Western av.
Spokane, Wash.—904-5 Railroad av.

**SMITH & HEMENWAY CO.....374**
150 Chambers, New York.

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**SMOOTH-ON MFG. CO.....233**
572 Communipaw av, Jersey City, N. J.
BRANCH OFFICES:
Chicago, Ill.—61 N. Jefferson.
San Francisco, Cal.—94 Market.

**SNEAD & CO. IRON WORKS.....627 & 673**
Foot of Pine, Jersey City, N. J.

**SNOW STEAM PUMP WORKS.....759**
B'way & Cedar, New York.
WORKS:
Buffalo, N. Y.
BRANCH OFFICES:
Atlanta, Ga.—Equitable bldg.
Boston, Mass.—200 Devonshire.
Buffalo, N. Y.—898 Ellicott sq.
Chicago, Ill.—820 Old Colony bldg.
Cincinnati, O.—211 West 4th.
Cleveland, O.—New England bldg.
Detroit, Mich.—Majestic bldg.
El Paso, Tex.—520 San Francisco.
Houston, Tex.—Brazos Hotel bldg.
Kansas City, Mo.—925 Scarritt bldg.
Los Angeles, Cal.—220 E 2d.
Louisville, Ky.—R 26, Board of Trade bldg.
New Orleans, La.—533 Baronne.
Philadelphia, Pa.—North American bldg.
Pittsburg, Pa.—407 Oliver bldg.
St. Louis, Mo.—605 Chemical bldg.
Salt Lake City, Utah—128 W 2d, S.
San Francisco, Cal.—148 1st.
Seattle, Wash.—524 1st av, S.

**SOLTMANN, E. G.....42, 90, 368, 396 & 1243**
134 W 29th, New York.

**SPEIDEL, JOHN G.....600**
Reading, Pa.

**SPRAGUE CANNING MACHINERY CO.. ..721**
5 Wabash av, Chicago, Ill.

**SPRINGFIELD FACING CO.....499**
Springfield, Mass.

**SPROUT, WALDRON & CO.....888**
140 Canal, Muncy, Pa.
FOREIGN DEPT.:
New York—24 State.

**STANDARD CO. .....629**
Railway Exchange bldg, Chicago, Ill.

**STANDARD GAUGE STEEL CO.....647**
Beaver Falls, Pa.

**STANDARD SAND & MACHINE CO.....767**
5157 St. Clair, Cleveland, O.

**STANDARD TOOL CO.....374 & 1047**
6900 Central av, Cleveland, O.
BRANCH OFFICE:
New York—94 Reade.

**STANLEY WORKS .....594**
New Britain, Conn.
BRANCH OFFICES:
Chicago, Ill.—73 East Lake.
New York—100 Lafayette.

**STAR EXPANSION BOLT CO.....102**
147 Cedar, New York.
BRANCH OFFICES:
Chicago, Ill.—120 W. Lake
New Orleans, La.—438 Audubon bldg.
San Francisco, Cal.—579-581 Howard
FOREIGN OFFICES:
Montreal, Que., Can.—377 St. Paul.
Toronto, Ont., Can.—28 Toronto.
Winnipeg, Man., Can.—147 Bannatyne av.

**STARK TOOL CO.....664**
Waltham, Mass.

**STARRETT, L. S. CO.....1134**
Athol, Mass.
BRANCH OFFICES:
Chicago, Ill.—17 N Jefferson.
New York—150 Chambers.
FOREIGN OFFICE:
London, Eng.—36 Upper Thames, E. C.

**STEARNS, A. T. LUMBER CO.....698**
Neponset, Boston, Mass.

**STEIN, HENRY .....982**
48 Cliff, New York.

**STEWARD & ROMAINE MFG. CO.....102**
124 N 6th, Philadelphia, Pa.

**STILES, H. A. & CO.....392 & 564**
161 High, Boston, Mass.

**"STONE".....See Last Inside Cover**
258 B'way, New York.

**STRONG, CARLISLE & HAMMOND CO....505**
336-344 Frankfort av, N. W., Cleveland, O.

**STRONG COTTON WASTE & MFG. CO...1359**
48 Franklin, New York.

**STROUD, E. H. & CO.....890**
55 W Kinzie, Chicago, Ill.

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**STRUTHERS-WELLS CO. .... ...449 & 1258**
Warren, Pa.
BRANCH OFFICE:
New York—50 Church.

**STURTEVANT, B. F. CO.....87**
Hyde Park, Mass.
BRANCH OFFICES:
Boston, Mass.
Buffalo, N. Y.
Chicago, Ill.
Cincinnati, O.
Cleveland, O.
Hartford, Conn.
Minneapolis, Minn.
New York.
Philadelphia, Pa.
Pittsburg, Pa.
Rochester, N. Y.
St. Louis, Mo.
San Francisco, Cal.—759 Monadnock bldg.
Seattle, Wash.
Washington, D. C.
FOREIGN OFFICES:
London, Eng.—Sturtevant Engineering Co.
Montreal, Que., Can.—Eadie-Douglas, Ltd.
Toronto, Ont., Can.—Polson Iron Works.

**SULLIVAN MACHINERY CO.....272**
122 S. Michigan av. Chicago, Ill.
BRANCH OFFICES:
Birmingham, Ala.—1227 Brown-Marx bldg.
Boston, Mass.—35 Federal.
Butte, Mont.—48 E B'way.
Claremont, N. H.
Denver, Colo.—1748 B'way.
El Paso, Tex.—506 San Francisco.
Joplin, Mo.
Knoxville, Tenn.—Houston bldg.
New York—30 Church.
Pittsburg, Pa.—Farmers' Bank bldg.
St. Louis, Mo.—Missouri Trust bldg.
Salt Lake City, Utah—Dooly bldg.
San Francisco, Cal.—461 Market.
Seattle, Wash.—508 1st av., S.
Spokane, Wash.—Hutton bldg.
FOREIGN OFFICES:
Calcutta, India—2 Pollock.
Cobalt, Ont., Can.
Dusseldorf, Germany.
Hong Kong, China.
Kalgoorlie, Australia—Boulder rd.
London, Eng.—Salisbury House.
Melbourne, Australia—339 Collins.
Nelson, B. C.
Paris, France—32 Avenue des Champs Elysees.
St. Petersburg, Russia—Galernaya 21.
Shanghai, China.—4 Yuen Ming Yuen rd.
Sydney, Australia—Australasia Chambers.
The Hague, Holland—Buiterhof No. 5.
Tokyo, Japan—P. O. Box 18.
WORKS:
Chicago, Ill.
Claremont, N. H.

**SWAIN LUBRICATOR CO.....689**
Lake & S Water, Chicago, Ill.

**SWING ELECTRIC CO.....900**
327 E 6th, Cincinnati, O.

## T

**TABLET & TICKET CO.....15**
541-553 W Jackson blvd, Chicago, Ill.
BRANCH OFFICES:
New York—381-383 B'way.
San Francisco, Cal.—883 Market.

**TATE, JONES & CO. (Inc.).....502**
Empire bldg, Pittsburg, Pa.

**TAYLOR, JAMES L. MFG. CO.....233**
Poughkeepsie, N. Y.

**TAYLOR-WILSON MFG. CO.....755**
McKees Rocks, Pa.

**TAYLOR & DEAN.....628**
Penn av & 25th, Pittsburg, Pa.

**TERRELL'S EQUIPMENT CO.....680**
Grand Rapids, Mich.

**TERRY & TENCH CO. (Inc.).....1217**
Grand Central Terminal, New York.

**THOMAS & SMITH (Inc.).....1017 & 1355**
116-118 N Carpenter, Chicago, Ill.
BRANCH OFFICE:
New York—432 Hudson.

**THOMSON WOOD FINISHING CO., THE...936**
Bulletin bldg, Philadelphia, Pa.

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**THORP FIRE PROOF DOOR CO.....364**
1600-1610 Central av, Minneapolis, Minn.
BRANCH OFFICES:
Atlanta, Ga.—V. H. Kriegshaber.
Birmingham, Ala.—A. E. Lewis, 214 N 20th.
Boston, Mass—Lombard & Tracy Co.
Buffalo, N. Y.—Buffalo Builders' Supply Co.
Butte, Mont.—E. H. Renisch, 110 N Wyoming.
Chattanooga, Tenn.—Lawson Mfg. & Supply Co.
Chicago, Ill.—Ross E. Stewart, 1218 Monadnock blk.
Cincinnati, O.—Cincinnati Clay Products Supply Co.
Cleveland, O.—H. D. Cushman Co.
Columbus, O.—R. L. Watson, Bronson bldg.
Dallas, Tex.—Builders' Supply Co.
Denver, Colo.—Davis-Jackson Supply Co.
Detroit, Mich.—James J. Flood, 10 Griswold.
Duluth, Minn.—Thompson & Stewart.
Fort Worth, Tex.—Fort Worth Buliders' Supply Co.
Grand Rapids, Mich.—Fred'k H. McDonald, 916 The Gilbert.
Houston, Tex.—Louis G. Hester, 317½ Main.
Kansas City, Mo.—Builders' Material Supply Co.
Little Rock, Ark.—P. V. Olsson.
Los Angeles, Cal.—Waterhouse & Price Co.
Louisville, Ky.—Owen Tyler bldg.
Memphis, Tenn.—Akers & Co.
Milwaukee, Wis:—L. H. Taylor, 22 Miller bldg.
Nashville, Tenn.—E. T. Kirkpatrick & Co.
Oakland, Cal.—Waterhouse & Price Co.
Oklahoma City, Okla.—Hanson Builders' Supply Co.
Omaha, Neb.—Sunderland Bros.
Peoria, Ill.—M. Dering, Woolner bldg.
Portland, Ore.—Waterhouse & Price Co.
Reno, Nev.—Butler Bros.
Richmond, Va.—Richmond Pattern & Structural Co.
St. Louis, Mo.—Hunins-Willis Lime & Cement Co.
Salt Lake City, Utah—Wm. S. Burton, 118 S 2d, W.
San Antonio, Tex.—Ray & Owens, P. O. Box 645.
San Francisco, Cal.—Waterhouse & Price Co.
Schenectady, N. Y.—N. J. DeGraff, 7 Myers Arcade.
Scranton, Pa.—Foote & Becker.
Seattle, Wash—S. W. R. Dally, Colmand bldg.
Spokane, Wash.—S. W. R. Dally, Hutton bldg.
Springfield, Ill.—J. L. Hudson & Co.
Syracuse, N. Y.—Wood Glass Co.
Tacoma, Wash.—S. W. R. Dally, Providence bldg.
Toledo, O.—J. P. Weyant, Builders' Ex.
Topeka, Kan.—Hargreaves & Co.
Washington, D. C.—J. H. Corning, 520 W 13th.
Wheeling, W. Va.—W. H. Chapman & Sons.
FOREIGN OFFICE:
Vancouver, B. C.—Wm. N. O'Neil & Co.

**THROPP'S, JOHN E. SONS CO.....766**
Ft. of Lewis, Trenton, N. J.

**TICKET & TABLET CO.....15**
541 W Jackson blvd,, Chicago, Ill.
BRANCH OFFICES:
New York—381 B'way.
San Francisco, Cal.—883 Market.

**TOLEDO MACHINE & TOOL CO.....1003**
Toledo, Ohio.

**TRAVELERS' INSURANCE CO.....622**
Hartford, Conn.
BRANCH OFFICES:
New York—1 Madison av & 76 William.

**TRETHEWAY, SAM'L & CO. (Ltd.)....652**
47th st, Pittsburg, Pa.

**TROY WAGON WORKS CO.....1352**
100 E Race, Troy, O.

**TRUSSED CONCRETE STEEL CO.....278**
Detroit, Mich.
WORKS:
Youngstown, O.
AGENCIES:
Atlanta, Ga.—C. C. Whitaker, 605 Forsyth bldg.
Baltimore, Md.—Layton F. Smith, 301 N. Charles.
Bangor, Me.—E. H. Lisherness, 116 Exchange.
Birmingham, Ala.—E. L. Penruddocke, 1201 Brown-Marx bldg.
Boston, Mass.—H. P. Converse & Co., 88 Broad.
Buffalo, N. Y.—F. R. Swift, 392 Pearl.
Butte, Mont.—Nelson & Pederson.
Chicago, Ill.—V. L. Page, 957 Gas bldg.
Columbus, O.—William Piez, Col. Sav. & Trust bldg.
Dallas, Tex.—G. Louis, Meyer, Wilson bldg.
Denver, Colo.—G. W. Phillips, 708 Colorado bldg.
El Paso, Tex.—E. E. Neff Co.
Hancock, Mich.—R. P. Dunstan & Co.
Houston, Tex.—Browne Builders' Supply Co., Inc., 810 Willows.
Indianapolis, Ind.—C. B. Mayer, 321 Board of Trade bldg.
Kansas City, Mo.—Louis Baum, Bryant bldg.
Lancaster, Pa.—J. H. Wickersham.
Los Angeles, Cal.—J. E. Heber, Central bldg.
Louisville, Ky.—U. T. Craven, 133 6th.
Milwaukee, Wis.—I. S. Leland, 1000 Pabst bldg.
New Orleans, La. — Chambers-Morris Co., Godchaux bldg.

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New York—Hermann Fougner, 25 Madison sq, N.
Philadelphia, Pa.—Sigmund & North, 408 Crozer bldg.
Pittsburg, Pa.—Irvin & Witherow, Keystone bldg.
Portland, Ore.—J. A. Currey, Board of Trade bldg.
Richmond, Va.—C. J. Roelker, State Bank bldg.
Roswell, New M.—Reed & Wilson.
St. Louis, Mo.—A. J. Widmer, Century bldg.
St. Paul, Minn.—A. H. Schuett, Pioneer bldg.
Salt Lake City, Utah—Walker Co., Walker blk.
San Francisco, Cal.—Felix Kahn, Macdonough bld.
Seattle, Wash.—A. T. Nelson, Henry bldg.
Spokane, Wash.—R. W. Adams, 1127 Old Nat'l Bank.
Syracuse, N. Y.—Paul C. Nugent, 417 University pl.
Utica, N. Y.—G. W. Thompson, Utica City Nat'l Bank bldg.

FOREIGN OFFICES:
London, Eng. — Trussed Concrete Steel Co., Ltd., Caxton House, Westminster, S. W.
Montreal, Can. / Toronto, Can. / Vaucouver, Can. / Walkerville, Can. / Winnipeg, Can. — Trussed Concrete Steel Co. of Canada, Ltd.
Agencies in foreign countries.

**TURNER & SEYMOUR MFG. CO....236 & 460**
Torrington, Conn.

**TYLER, W. S. CO.....629 & 1379**
Cleveland, O.
BRANCH OFFICES:
New York—11 B'way.
Pittsburg, Pa.—Bessemer bldg.

## U

**UNION ELEVATOR & MACHINE CO.....351**
215 W Ontario, Chicago, Ill.

**UNION FOUNDRY WORKS.....625**
38 S Dearborn, Chicago, Ill.

**UNION FOUNDRY & MACHINE CO.....531**
Pittsburg, Pa.

**UNION IRON WORKS, INC.....740**
630-60 E William, Decatur, Ill.

**UNION METAL CORNER CO.....970**
144 Pearl, Boston, Mass.

**UNION STEAM PUMP CO.....1015**
Battle Creek, Mich.

**UNION WATER METER CO.....1332**
Worcester, Mass.

**U. S. GUTTA PERCHA PAINT CO.....934**
12-30 Dudley, Providence, R. I.

**UNITED STATES METAL PRODUCTS CO.**
205 W 40th, New York. **364 & 1374**
BRANCH OFFICES:
Atlantic City, N. J.—A. W. Cunningham & Co., 610 Bartlett bldg.
Boston, Mass.—E. D. Chandler, 1150 Tremont bldg.
Butte, Mont.—Otto G. Stoelker Co.
Chicago, Ill.—Kaufman & Co., Peoples' Gas bldg.
Denver, Colo.—Geo. W. Summers Co., 404 Exch. bldg.
Duluth, Minn.—Duluth Corrugating & Roofing Co., Sutphen & St. Croix av.
Kansas City, Mo.—Jacques Steel Co., R. A. Long bldg
Los Angeles, Cal.—Waterhouse & Price Co., 331 E 4th.
New Orleans, La.—J. Hamilton Jaffray, 606 Audubon bldg.
Oakland, Cal.—Waterhouse & Price Co., 101 Telegraph bldg.
Philadelphia, Pa.—Fred. J. Wilson, 1303 Land Title bldg.
Pittsburg, Pa.—E. E. Wertheimer, 1001 Diamond Bank bldg.
Portland, Ore.—Waterhouse & Price Co., 304 Hoyt.
St. Louis, Mo.—St. Louis Sales Co., 1224 Chemical bldg.
San Francisco, Cal.—Waterhouse & Price Co., 59 3d.
Seattle, Wash.—Waterhouse & Price Co., 246 Arcade Annex.
Washington, D. C.—H. L. Van Auken, Evans bldg.
FOREIGN OFFICES:
Buenos Aires, Arg.—Taylor & Co., 552 Calle Esmeralda.
Montreal, Can.—Warden K. Lowden, 13 Bleury.

**U. S. MINERAL WOOL CO.....893**
140 Cedar, New York.

**UNITED WIRE & SUPPLY CO.....1320**
100 Summer, Providence, R. I.

## V

**VILTER MFG. CO.....445**
1046 Clinton, Milwaukee, Wis.

**VOELKNER & HARRY MANUFACTURING CO.....1200**
282-292 Woodbridge E, Detroit, Mich.

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**VOIGTMANN & CO.....1374**
442-459 W Erie, Chicago, Ill.

**VULCAN COMPANY, THE.....627**
Detroit, Mich.

## W

**WALSH'S SONS & CO.....787**
Harrison, N. J.

**WARNER ELEVATOR MFG. CO.....388**
Spring Grove av, Alfred & Valley, Cincinnati, O.
BRANCH OFFICES:
Birmingham, Ala.
New York.

**WARREN CITY TANK & BOILER CO. 108, 646, 655, 1252, 1256, 1258 & 1263**
Warren, O.

**WARSAW ELEVATOR CO.....389**
Warsaw, N. Y.
BRANCH OFFICES:
Baltimore, Md.—111 Mercer.
Buffalo, N. Y.—90 Erice Co. Bank bldg.
New York—Burwak Elevator Co., 216 Fulton.
Philadelphia, Pa.—929 Chestnut.
Rochester, N. Y.—189-191 Mill.

**WATSON, H. F. CO.....44**
Erie, Pa.
BRANCH OFFICES:
Boston, Mass.—79 Milk.
Chicago, Ill.—319 Wells.

**WATSON-STILLMAN CO. .....640 & 742**
38 Church, New York.

**WEBER, F. & CO.....396**
1125 Chestnut, Philadelphia, Pa.
BRANCH OFFICES:
Baltimore, Md.—227 Park av.
St. Louis, Mo.—825 Washington av.

**WEBSTER MFG. CO.....306**
2410-2432 W 15th, Chicago, Ill.
BRANCH OFFICES:
Denver, Colo.—C. L. Dean, Mgr., 1720 California.
New York—88 Reade.
Salt Lake City, Utah—Eng. & Mach. Co., Boston bldg.
San Francisco, Cal.—N. D. Phelps, Mgr., Sheldon bldg.
BRANCH FACTORY:
Tiffin, O.

**WELLER MFG. CO.....308**
853 E North av, Chicago, Ill.

**WELLS BROS. CO.....1266**
Greenfield, Mass.
BRANCH OFFICES:
Chicago, Ill.—547 Wash'n blvd.
New York—90 Centre.
FOREIGN OFFICE:
London, Eng.—149 Queen Victoria.

**WERNER & PFLEIDERER.....723**
Saginaw, Mich.

**WESTINGHOUSE ELECTRIC & MFG. CO. 533, 657, 756 & 899**
Union Bank bldg, Pittsburg, Pa.
DISTRICT SALES OFFICES:
Atlanta, Ga.—Candler bldg.
Baltimore, Md.—121 E Baltimore.
Birmingham, Ala.—Brown-Marx bldg.
Bluefield, W. Va.—Kelly-Moyer bldg.
Boston, Mass.—Board of Trade bldg.
Buffalo, N. Y.—Ellicott sq.
Butte, Mont.—Lewisohn bldg.
Charleston, W. Va.—Anderson-Stephenson bldg.
Charlotte, N. C.—American bldg.
Chicago, Ill.—New York Life bldg.
Cincinnati, O.—Traction bldg.
Cleveland, O.—Swetland bldg.
Columbus, O.—Columbus S. & T. bldg.
Dallas, Tex.—W. E. & M. Co. of Texas, Andrews bldg
Denver, Colo.—Gas & Electric bldg.
Detroit, Mich.—27-29 Woodward av.
El Paso, Tex.—516 San Francisco.
Houston, Tex.—1st Nat'l Bank bldg.
Indianapolis, Ind.—Traction Term. bldg.
Joplin, Mo.—116 W 5th.
Kansas City, Mo.—New England bldg.
Knoxville, Tenn.—Bank & Trust bldg.
Los Angeles, Cal.—524 S Spring.
Louisville, Ky.—Paul Jones bldg.
Memphis, Tenn.—Exchange bldg.
Milwaukee, Wis.—Majestic bldg.
Minneapolis, Minn.—Met. Life Ins. bldg.
New Haven, Conn.—278 Orange.
New Orleans, La.—Maison Blanche bldg.
New York—165 B'way.
Omaha, Neb.—City Nat'l Bank bldg.
Philadelphia, Pa.—North Amer. bldg.
Portland, Ore.—Couch bldg.
Richmond, Va.—Mutual bldg.
Rochester, N. Y.—Chamber of Commerce bldg.
St. Louis, Mo.—Bank of Commerce bldg.
Salt Lake City, Utah—212 S W Temple.
San Francisco, Cal.—165 Second.

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Seattle, Wash.—Central bldg.
Spokane, Wash.—Paulsen bldg.
Syracuse, N. Y.—University bldg.
Toledo, O.—Ohio bldg.
Washington, D. C.—Hibbs bldg.
Wilkes-Barre, Pa.—Hollenback Coal Ex. bldg.

FOREIGN OFFICES:
Argentina
Paraguay
Uruguay
Buenos Aires—Agar, Cross & Co.
Havana, Cuba—Charles H. Thrall & Co.
Bolivia
Chile
Ecuador
Iquique, Chile—J. K. Robinson.
Mexico City, Mex.—Compania Ingeniera, Importadora y Contratista, S. A.
Peru
Rio de Janeiro, Brazil—Walter Bros. & Co.
Tokio, Japan—Takata & Co.

FOREIGN COMPANIES:
Arad, Hungary — Societe Hongroise D'Automobiles Systeme Westinghouse. (For Hungary.)
Berlin, Germany—Westinghouse Electricitats Actiengesellschaft. (For Germany & Austria.)
Hamilton, Ont.—Canadian Westinghouse Co., Ltd.
Le Havre, France—Societe Anonyme Westinghouse. (For France, Belgium, Spain, Holland, Switzerland, Portugal, their volonies & countries under their protectorate.)
Manchester, Eng.—British Westinghouse Electric & Mfg. Co., Ltd. (For the United Kingdom & her Colonies, except Canada.)
Paris, France—Westinghouse Electric Co., Ltd.
St. Petersburg, Russia—Societe Electrique Westinghouse De Russie. (For the Russian Empire in Europe & Asia.)
Vado Ligure, Italy—Societa Italiana Westinghouse. (For Italy.)

**WESTINGHOUSE MACHINE CO.....1323**
Westinghouse bldg, Pittsburg, Pa.

BRANCH OFFICES:
Atlanta, Ga.—Candler bldg.
Boston, Mass.—131 State.
Chicago, Ill.—171 La Salle.
Cincinnati, O.—1103 Traction bldg.
Cleveland, O.—City Investment bldg.
Denver, Colo.—Gas & Electric bldg.
New York—165 B'way.
Philadelphia, Pa.—North American bldg.
St. Louis, Mo.—Chemical bldg.
San Francisco, Cal.—Hunt, Mirk & Co.

FOREIGN OFFICES:
Buenos Aires, A. R.—Agar, Cross & Co.
City of Mexico, Mex.—Compania Ingeniera, Importadora y Contratista, S. A.
Iquique, Chile—J. K. Robinson.
Paris, France—R. Rogers & Co.
Tokio, Japan—Takata & Co.

**WHEELER CONDENSER & ENGINEERING CO.....279**
Carteret, N. J.

BRANCH OFFICES:
Atlanta, Ga.—Empire bldg.
Boston, Mass.—141 Milk
Charlotte, N. C.—318-320 American bldg.
Chicago, Ill.—946 First Nat'l Bank bldg.
Cincinnati, O.—111 Ingalls bldg.
Denver, Colo.—1718 California.
Houston, Tex.—Scanlan bldg.
Los Angeles, Cal.—Los Angeles Trust bldg.
New Orleans, La.—1103 Hennen bldg.
New York—2006 Singer bldg.
Philadelphia, Pa.—816 Commonwealth Trust bldg.
Pittsburg, Pa.—2347 Oliver bldg.
Portland, Ore.—Wells-Fargo bldg.
St. Louis, Mo.—Granite bldg.
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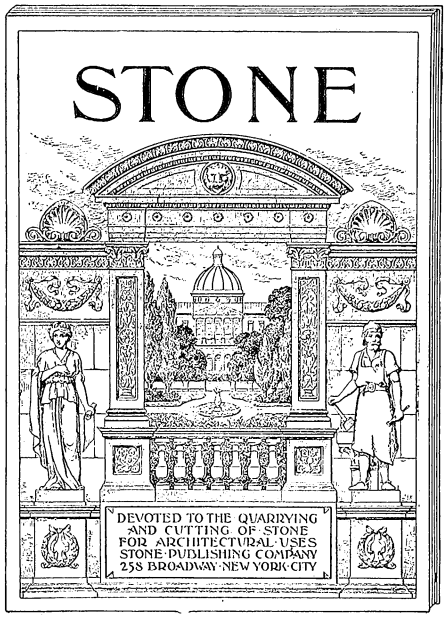
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